HYUNDAI

AIR CONDITIONER

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01

ROOFTOP PACAKAGE UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



ROOFTOP

PACKAGE UNIT

AIR CONDITIONERS

Capacity 4-25TR

HY3RTHU - 50Hz

R410A



صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

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INTRODUCTION

Rooftop package units have been developed & produced to provide not only the ultimate indoor comfort, but also to guarantee long & trouble free operations.

Here lies the reason for the choice of only the highest quality components and design strategist to meet the most important objective such as:

- EFFICIENCY
- RELIABILITY
- FLEXIBILITY
- EASY INSTALLABILITY
- SERVICEABILITY
- AFFORDABILITY

HY3RTHU



FEATURES

Standard Features

- Refrigerant : R410A.
- Power Supply: 415V/3PH/50Hz.
- Factory Wired with Single Point Power Input.
- Scroll Compressor.
- High Pressure & Low Pressure Safety Switches.
- Power Controller, High/Low Voltage, Phase Loss/Reversal Protection.
- All units are provided with ON-Delay timers for Anti-short cycling.
- Internal Motor Protection for 3Ø Indoor & Outdoor Motors.
- All Units are designed to operate with 24V Universal Thermostat.
- Direct Drive Blower Motor Assembly for 4TR & 5TR Units.
- Belt Drive Blower Motor Assembly for 6TR and above.
- Thermostatic Expansion Valve.
- Condenser Fans are Propeller type Direct Driven, draw through Vertical Discharge with fan guard mounted to the Panel.
- Condenser & Evaporator Coils are with Copper tubes and Aluminum fins.
- Weather resistant steel cabinet, qualified for 1000 Hours of Salt Spray test.

Optional Features

- Electric Heater.
- Overload External protection for Blower Motor, Compressor & Condenser Fan.
- Anti Ice thermostat.
- Copper Fins for Evaporator & Condenser coil.
- Heresite Coated Condenser Coil.
- Stainless Steel Drain Pan.
- Filter Differential pressure Switch.
- Compressor Alternating Switch.
- Hour Run Meter.
- Fan Cycling Switch.
- Low Ambient kit.
- Rotolock Compressor
- Circuit breaker (MCB) for Compressor, Condenser Motor & Blower Motor.
- Pump Down System.
- Dual Adjustable Pressure Switch.
- Hot Gas Bypass (with Solenoid).
- Pressure Gauges.
- Oversized Blower Motor & Alternate Drive Package.
- PCB Controller.
- Advanced Microprocessor Controller. Adjustable
- Voltage Monitor.
- UV Light.
- Adjustable Pressure Switch.
- IP55 Class F Blower Motor up to 12TR
- VFD for Blower Motor.
- Soft Starter for Blower Motor.
- Volt free Contacts for Compressor & Blower ON/OFF/TRIP Status.
- Fire Alarm Interlock
- Crankcase Heater for Compressor
- Sight Glass
- 2" Aluminum filter

* Applicable for 6TR units and above.

ENGINEERING SPECIFICATIONS

Roof Top Package Units

TECHNICAL SPECIFICATIONS - ROOF TOP PACKAGE UNIT								
MODEL/UNIT			HY3RTHU048GC1	HY3RTHU060GC1	HY3RTHU072GC1	HY3RTHU080GC1	HY3RTHU090GC1	3RTHU120GC2
RATED CAPACITY @T1 *	Cooling	Btu/Hr	55,300	63,700	74,200	92,800	102,000	128,500
RATED POWER CONSUMPTION @T1		W	4,500	5,100	6,100	7,700	8,350	10,200
EER @T1 *			12.29	12.49	12.16	12.05	12.22	12.60
RATED CAPACITY @T4 **	Cooling	Btu/Hr	49,200	57,200	66,000	79,500	91,500	119,000
RATED POWER CONSUMPTION @T4 **		W	5,700	6,625	7,650	9,200	10,600	13,750
POWER CONSUMPTION / TON @T4 **		Kwa⊠s/Tr.	1.39	1.39	1.39	1.39	1.39	1.39
EER @T4 **			8.63	8.63	8.63	8.64	8.63	8.65
EXTERNAL STATIC PRESSURE		Inch H2O g	0.20	0.20	0.25	0.25	0.25	0.30
NOMINAL AIR FLOW		CFM	1,650	1,950	2,400	2,750	3,000	4,000
REFRIGERATION CIRCUIT	Standard	NOS	1					2
ELECTRICAL DATA	POWER SUPPLY	V-PH-HZ	415V/3Ph/50 Hz					
REFRIGERANT	Type		R410A					
CONDENSER FAN	Type		Propellor					
	Size-Diameter std	INCH	26"	26"	26"	26"	26"	25"
	Quan⊠ty		1	1	1	1	1	2
CONDENSER MOTOR	Power Supply	V-PH-HZ	240V/1Ph/50Hz					
	Motor Power	HP (KW)	0.75 (0.6)	0.75 (0.6)	0.75 (0.6)	0.75 (0.6)	0.75 (0.6)	0.5 (0.4)
	IP		IP20	IP20	IP20	IP20	IP20	IP44
	Type		BLDC	BLDC	BLDC	BLDC	BLDC	Induc⊠on
CONDENSER COIL	Type		Corrugated Aluminium Fin with Inner grooved copper coil					
	Tube size(O.D)	INCH	3/8"					
	ROW/FPI		2R/14FPI	3R/14FPI	4R/14FPI	4R/15 FPI	4R/15 FPI	3R/15 FPI
	Number of Coils		1	1	2	1	1	2
EVAPORATOR BLOWER	Type		Centrifugal					
	DIA X WIDTH	INCH	11" X 9"	11" X 9"	12" X 12"	12" X 12"	15" X15"	15" X15"
	Drive type/Motor step		DIRECT	DIRECT	BELT/1	BELT/1	BELT/1	BELT/1
BLOWER MOTOR	Power Supply	V-PH-HZ	240V/1Ph/50Hz		415V/3Ph/50Hz			
	Type		BLDC	BLDC	Induc⊠on			
	Quan⊠ty		1	1	1	1	1	1
	Motor Power	HP (KW)	0.75 (0.6)	1 (0.75)	1.3 (1.0)	1.3 (1.0)	1.3 (1.0)	2.6 (1.9)
	IP		IP20	IP20	IP20	IP20	IP20	IP20
EVAPORATOR COIL	Type		Corrugated Aluminium Fin with Inner grooved copper coil					
	Tube size(O.D)	INCH	3/8"					
	ROW/FPI		3R/16FPI	4R/16 FPI	3R/16 FPI	3R/16 FPI	4R/16 FPI	3R/16 FPI
CONDENSATE DRAIN SIZE	INCH	INCH	1"	1"	1"	1"	1"	1"
UNIT DIMENSIONS		WxDxH (mm)	1790 x 1024 x 1049	1790 x 1024 x 1049	1790 x 1024 x 1160	2028 x 1024 x 1160	2028 x 1024 x 1160	2265 x 1505 x 1383
UNIT WEIGHT		KG	374	394	452	490	515	819

TECHNICAL SPECIFICATIONS - ROOF TOP PACKAGE UNIT								
MODEL/UNIT			HY3RTHU150GC2	HY3RTHU180GC2	HY3RTHU210GC2	HY3RTHU240GC2	HY3RTHU270GC2	HY3RTHU300GC2
RATED CAPACITY @T1 *	Cooling	Btu/Hr	158,500	181,000	210,000	245,000	265,000	300,500
RATED POWER CONSUMPTION @T1		W	12,700	14,800	17,100	19,900	21,600	24,800
EER @T1 *			12.48	12.23	12.28	12.31	12.27	12.12
RATED CAPACITY @T4 **	Cooling	Btu/Hr	134,500	154,440	175,057	204,991	225,053	258,292
RATED POWER CONSUMPTION @T4 **		W	15,510	18,000	20,400	23,900	26,100	29,900
EER @T4 **			8.67	8.58	8.58	8.58	8.62	8.64
POWER CONSUMPTION / TON @T4 **		Kwa⊠s/Tr.	1.39	1.40	1.40	1.40	1.39	1.39
EXTERNAL STATIC PRESSURE		Inch H2O g	0.4	0.4	0.4	0.4	0.4	0.4
NOMINAL AIR FLOW		CFM	5,000	6,000	7,000	8,000	9,000	10,000
REFRIGERATION CIRCUIT	Standard	NOS	2					
ELECTRICAL DATA	POWER SUPPLY	V-PH-HZ	415V/3Ph/50 Hz					
REFRIGERAT	Type		R410A					
CONDENSER FAN	Type		Propellor					
	Size-Diameter std	INCH	26"	26"	30"	26"	26"	26"
	Quan⊠ty		2	2	2	4	4	4
CONDENSER MOTOR	Power Supply	V-PH-HZ	240V/1Ph/50Hz	240V/1Ph/50Hz	415V/3Ph/50 Hz	240V/1Ph/50Hz		
	Motor Power	HP (KW)	0.75 (0.6)	0.75 (0.6)	1.5 (1.1)	0.75 (0.6)	0.75 (0.6)	0.75 (0.6)
	IP		IP20	IP20	IP55	IP20	IP20	IP20
	Type		ECM	ECM	Induc⊠on	ECM	ECM	ECM
CONDENSER COIL	Type		Corrugated Aluminium Fin with Inner grooved copper coil					
	Tube size(O.D)	INCH	3/8"					
	ROW/FPI		4R/16 FPI	4R/16 FPI	3R/14 FPI	3R/14 FPI	4R/14 FPI	4R/14 FPI
	Number of Coils		2	2	4	2	2	2
EVAPORATOR BLOWER	Type		Centrifugal					
	DIA X WIDTH	INCH	15" X15"	15" X15"	15" X15" - Twin	15" X15" - Twin	15" X15" - Twin	15" X15" - Twin
	Drive type/Motor step		BELT/1	BELT/1	BELT/1	BELT/1	BELT/1	BELT/1
BLOWER MOTOR	Power Supply	V-PH-HZ		415V/3Ph/50 Hz				
	Type			Induc⊠on				
	Quan⊠ty		1	1	1	1	1	1
	Motor Power	HP (KW)	2.6 (1.9)	2.6 (1.9)	5 (3.7)	5 (3.7)	5 (3.7)	7.5 (5.5)
	IP		IP20	IP20	IP55	IP55	IP55	IP55
EVAPORATOR COIL	Type		Corrugated Aluminium Fin with Inner grooved copper coil					
	Tube size(O.D)	INCH	3/8"					
	ROW/FPI		4R/16 FPI	4R/16 FPI	4R/14 FPI	4R/14 FPI	4R/14 FPI	4R/14 FPI
CONDENSATE DRAIN SIZE	INCH	INCH	1"	1"	1"	1"	1"	1"
UNIT DIMENSIONS		WxDxH (mm)	2092 x 2030 x 1520	2092 x 2030 x 1520	2575 x 2150 x 1755	3312 x 2150 x 2100	3312 x 2150 x 2100	3312 x 2150 x 2100
UNIT WEIGHT		KG	882	902	1294	1604	1626	1641

NOTES:
Cooling Capacity & Power Consump on given are for the whole set unit.
*Cooling Capacity & EER are rated @ 80.6°F DBT/66.2°F WBT indoor and 95°F DBT outdoor.
** Cooling Capacity & EER are rated @ 80°F DBT/67°F WBT indoor and 118.4°F DBT outdoor .
As a result of con nous research and development, the above specifica ons are subject to changes without no ce.

COOLING PERFORMANCE DATA

048K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																			
				85.00			95.00			105.00			115.00			118.40			125.00				
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW		
HY3RTHU048GC1	1400	82	69	59032	41013	3.93	56331	39876	4.50	53381	38632	5.15	50858	37774	5.46	49669	37269	5.71	47254	36224	6.23		
		82	67	57184	43750	3.93	54554	42612	4.50	51710	41368	5.15	49272	40549	5.44	48119	40045	5.70	45740	39000	6.23		
		82	65	55300	46628	3.92	52741	45455	4.49	50005	44212	5.14	47614	43397	5.43	46497	42892	5.69	44190	41847	6.21		
		82	63	53381	49578	3.90	50929	48405	4.47	48263	47161	5.12	45956	40656	5.42	44875	41275	5.67	42640	40640	6.20		
		80	69	57361	40658	3.93	54731	39520	4.50	51853	38276	5.15	49416	37414	5.44	48263	36909	5.70	45884	35864	6.23		
		80	67	57077	41120	3.93	54447	39947	4.50	51604	38703	5.14	49164	37846	5.44	48011	37342	5.70	45668	36296	6.23		
		80	65	55300	43785	3.92	52777	42612	4.49	50005	41368	5.14	47650	40513	5.43	46533	40009	5.69	44226	38964	6.21		
		80	63	53239	46984	3.90	50786	45846	4.47	48121	44567	5.12	45848	43757	5.42	44767	43253	5.67	42532	42207	6.20		
		78	69	58961	34580	3.93	56260	33585	4.50	53310	32483	5.15	50822	31719	5.46	49633	31286	5.71	47182	30385	6.23		
		78	67	57113	37921	3.93	54483	36890	4.50	51639	35789	5.14	49200	34963	5.44	48047	34458	5.70	45668	33413	6.23		
		78	65	55193	41155	3.92	52670	39982	4.49	49898	38738	5.14	47542	37882	5.43	46425	37378	5.69	44118	36296	6.21		
		78	63	53239	44176	3.90	50786	43003	4.47	48121	41759	5.12	45848	40910	5.42	44767	40405	5.67	42532	39324	6.20		
		76	69	58925	31204	3.93	56224	30173	4.50	53274	29107	5.15	50750	28295	5.46	49560	27862	5.70	47145	26961	6.23		
		76	67	56935	34794	3.93	54340	33763	4.50	51462	32661	5.14	49056	31899	5.44	47902	31430	5.70	45524	30529	6.21		
		76	65	55158	38028	3.92	52635	36997	4.49	49862	35860	5.14	47506	35035	5.43	46389	34494	5.69	44118	33449	6.21		
		76	63	53345	41155	3.90	50893	39982	4.47	48228	38738	5.12	45956	37846	5.42	44875	37342	5.67	42640	36260	6.20		
		80.6	66.2	56366	43003	3.92	53772	41866	4.49	50964	40587	5.14	48551	39756	5.44	47434	39252	5.69	45091	38207	6.21		
		82	69	60738	44140	3.95	57859	42968	4.51	54767	41688	5.16	52120	40874	5.46	50858	40333	5.71	48335	39288	6.24		
		82	67	58854	47339	3.93	56082	46131	4.50	53061	44887	5.15	50498	44082	5.46	49272	43541	5.70	46821	42496	6.23		
		82	65	56935	50644	3.93	54269	49436	4.50	51355	48156	5.14	48840	47398	5.44	47686	46857	5.69	45271	41271	6.21		
		82	63	54980	54056	3.92	52386	20988	4.49	49578	41687	5.14	47254	4295	5.43	46316	42130	5.69	44370	34482	6.21		
		80	69	59032	43750	3.93	56260	42577	4.50	53239	41297	5.15	50678	40441	5.46	49452	39901	5.70	46965	38855	6.23		
		80	67	58747	44247	3.93	55975	43074	4.50	52990	41795	5.15	50389	40946	5.44	49200	40405	5.70	46713	39360	6.23		
		80	65	56970	47339	3.93	54269	46166	4.50	51355	44851	5.14	48876	44046	5.44	47686	43541	5.69	45271	42460	6.21		
		80	63	54838	51071	3.92	52244	49898	4.49	49436	48583	5.12	47037	42710	5.43	45884	41784	5.67	43649	40640	6.20		
		78	69	60667	37388	3.95	57788	36357	4.51	54696	35256	5.16	52047	34350	5.46	50786	33809	5.71	48263	32764	6.24		
		78	67	58747	40942	3.93	56011	39769	4.50	52990	38490	5.15	50425	37594	5.46	49200	37053	5.70	46749	36008	6.23		
		78	65	56828	44318	3.93	54163	43110	4.49	51248	41830	5.14	48767	40982	5.44	47578	40441	5.69	45163	39360	6.21		
		78	63	54838	47801	3.92	52279	46593	4.49	49436	45313	5.12	47037	44478	5.43	45920	43974	5.67	43577	42892	6.20		
		76	69	60595	33407	3.95	57752	32377	4.51	54625	31275	5.16	51975	30457	5.46	50750	30025	5.71	48191	29124	6.24		
		76	67	58605	37601	3.93	55833	36571	4.50	52848	35433	5.15	50281	34530	5.44	49056	33989	5.70	46605	32944	6.23		
		76	65	56793	41049	3.93	54127	39840	4.49	51213	38561	5.14	48731	37666	5.44	47542	37161	5.69	45163	36080	6.21		
		76	63	54945	44318	3.92	52386	43110	4.49	49543	41830	5.14	47145	40946	5.43	45992	40405	5.69	43685	39324	6.20		
		80.6	66.2	58037	46451	3.93	55300	45278	4.50	52315	43963	5.15	49777	43145	5.44	48587	42640	5.70	46136	41559	6.23		

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

060K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU060GC1	1650	82	69	68011	45586	4.56	64937	44349	5.12	61594	43013	5.76	59145	42422	6.38	57780	41910	6.64	54982	40784	7.16
		82	67	65872	48828	4.52	62898	47591	5.09	59656	46254	5.73	57268	45733	6.35	55937	45187	6.60	53241	44060	7.13
		82	65	63700	52203	4.48	60826	50967	5.05	57684	49596	5.69	55357	49111	6.31	54094	48565	6.57	51432	47439	7.09
		82	63	61494	55679	4.45	58720	54409	5.02	55679	53072	5.66	53412	52627	6.26	52354	51876	6.53	49931	45423	7.06
		80	69	66173	45218	4.53	63165	43982	5.09	59923	42645	5.74	57541	42047	6.35	56210	41467	6.60	53480	40374	7.14
		80	67	65839	45720	4.52	62864	44483	5.09	59589	43146	5.73	57234	42559	6.35	55903	42013	6.60	53173	40886	7.13
		80	65	63800	48895	4.48	60926	47625	5.05	57751	46288	5.69	55459	45733	6.31	54163	45187	6.57	51500	44060	7.09
		80	63	61394	52671	4.45	58620	51435	5.02	55545	50064	5.66	53309	49589	6.26	52081	49009	6.52	49487	47883	7.04
		78	69	68112	39035	4.56	65037	37799	5.12	61661	36495	5.76	59248	35767	6.38	57848	35221	6.64	55050	34129	7.16
		78	67	65939	42378	4.52	62965	41141	5.09	59690	39804	5.73	57337	39112	6.35	56005	38566	6.60	53275	37474	7.13
		78	65	63733	45820	4.48	60826	44583	5.05	57684	43213	5.69	55391	42627	6.31	54094	42047	6.57	51432	40921	7.09
		78	63	61461	49396	4.45	58687	48126	5.02	55646	46789	5.66	53378	46211	6.26	52149	45664	6.52	49555	44504	7.06
		76	69	68145	35693	4.56	65070	34490	5.12	61695	33187	5.77	59282	32388	6.38	57917	31842	6.64	55084	30750	7.17
		76	67	65839	39269	4.52	62864	38066	5.09	59623	36729	5.73	57234	35972	6.35	55903	35426	6.60	53173	34334	7.13
		76	65	63767	42511	4.48	60893	41275	5.05	57718	39938	5.69	55425	39248	6.31	54128	38702	6.57	51466	37576	7.09
		76	63	61661	45853	4.46	58887	44617	5.02	55813	43246	5.66	53548	42627	6.28	52320	42047	6.53	49726	40921	7.06
		80.6	66.2	65003	47959	4.51	62062	46722	5.08	58854	45385	5.72	56517	44811	6.33	55186	44265	6.59	52490	43139	7.11
		82	69	69816	49195	4.59	66608	47959	5.16	63065	46622	5.80	60511	46074	6.40	56855	44588	7.19	53420	43149	8.07
		82	67	67677	52972	4.56	64536	51735	5.11	61127	50365	5.76	58633	49896	6.37	57234	49350	6.63	54401	48224	7.15
		82	65	65471	56882	4.52	62463	55612	5.08	59155	54275	5.72	56722	53855	6.33	55357	53309	6.59	52729	52012	7.11
		82	63	63266	60926	4.48	60492	59489	5.05	57484	54362	5.69	55732	52874	6.31	54640	51350	6.58	52388	50146	7.11
		80	69	67944	48761	4.56	64803	47524	5.12	61394	46154	5.76	58872	45596	6.38	57473	45050	6.64	54640	43924	7.16
		80	67	67610	49362	4.56	64502	48126	5.11	61093	46756	5.76	58565	46211	6.37	57200	45664	6.63	54367	44538	7.15
		80	65	65572	53039	4.52	62530	51769	5.09	59222	50399	5.73	56790	49931	6.33	55425	49350	6.59	52661	48224	7.11
		80	63	63132	57450	4.47	60224	56180	5.04	57016	54810	5.68	54811	54197	6.30	53685	53412	6.56	51193	48945	7.08
		78	69	69916	41575	4.59	66674	40339	5.16	63165	39002	5.80	60579	38327	6.40	56893	36882	7.19	53431	35491	8.07
		78	67	67744	45452	4.56	64602	44216	5.12	61193	42845	5.76	58668	42217	6.37	57302	41671	6.63	54436	40545	7.15
		78	65	65505	49463	4.52	62463	48193	5.08	59155	46823	5.72	56722	46279	6.33	55357	45733	6.59	52593	44572	7.11
		78	63	63232	53607	4.48	60291	52337	5.04	57083	50967	5.68	54709	50477	6.30	53412	49896	6.56	50716	48736	7.08
		76	69	69950	37732	4.59	66741	36495	5.16	63199	35159	5.80	60613	34368	6.40	56927	32898	7.19	53465	31490	8.07
		76	67	67644	41876	4.56	64502	40606	5.11	61093	39269	5.76	58599	38566	6.37	57200	38020	6.63	54367	36893	7.15
		76	65	65538	45619	4.52	62497	44383	5.09	59188	43013	5.73	56756	42354	6.33	55391	41808	6.59	52661	40647	7.11
		76	63	63433	49496	4.48	60492	48226	5.05	57250	46856	5.69	54879	46279	6.30	53582	45699	6.56	50886	44538	7.08
		80.6	66.2	66775	51969	4.53	63700	50699	5.10	60325	49329	5.74	57848	48838	6.36	56483	48292	6.61	53685	47166	7.14

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

072K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU072GC1	2100	82	69	79661	53284	5.46	76120	51894	6.15	72413	50437	6.93	68341	48725	7.36	67022	48198	7.67	64451	47176	8.33
		82	67	77046	57023	5.40	73604	55633	6.09	69964	54144	6.88	66000	52385	7.31	64714	51824	7.62	62209	50802	8.27
		82	65	74399	60896	5.35	71056	59473	6.03	67515	57950	6.82	63626	56143	7.25	62374	55615	7.56	59901	54560	8.22
		82	63	71751	64900	5.29	68474	63444	5.97	65033	61888	6.76	61220	60066	7.20	60000	59505	7.51	57692	53695	8.17
		80	69	77377	52820	5.41	73935	51397	6.10	70295	49941	6.88	66297	48198	7.31	65011	47670	7.63	62473	46615	8.27
		80	67	76980	53416	5.40	73538	51993	6.09	69898	50504	6.87	65934	48758	7.31	64648	48231	7.62	62143	47209	8.27
		80	65	74498	57023	5.36	71155	55600	6.03	67614	54111	6.82	63725	52319	7.25	62473	51758	7.56	60000	50703	8.22
		80	63	71585	61425	5.29	68342	59969	5.97	64867	58413	6.75	61088	56571	7.19	59868	56044	7.50	57462	54956	8.15
		78	69	79760	45672	5.46	76219	44282	6.15	72512	42826	6.93	68440	41143	7.36	67121	40615	7.67	64549	39626	8.33
		78	67	77112	49511	5.40	73670	48088	6.09	70030	46631	6.88	66033	44868	7.31	64747	44341	7.62	62242	43319	8.27
		78	65	74399	53482	5.35	71056	52026	6.03	67515	50537	6.82	63626	48758	7.25	62374	48231	7.56	59901	47176	8.22
		78	63	71685	57586	5.29	68408	56130	5.97	64966	54574	6.75	61187	52780	7.20	59934	52220	7.51	57527	51132	8.15
		76	69	79826	41800	5.47	76285	40410	6.15	72545	38986	6.93	68473	37319	7.36	67154	36791	7.67	64582	35769	8.33
		76	67	76980	45903	5.40	73538	44513	6.09	69898	43024	6.87	65934	41308	7.31	64648	40780	7.62	62110	39758	8.27
		76	65	74465	49643	5.36	71089	48187	6.03	67548	46698	6.82	63659	44934	7.25	62407	44407	7.56	59934	43352	8.22
		76	63	71916	53482	5.30	68640	52026	5.99	65165	50504	6.76	61385	48692	7.20	60165	48132	7.51	57725	47077	8.17
		80.6	66.2	75987	55998	5.38	72578	54574	6.07	68971	53085	6.84	65011	51297	7.28	63758	50769	7.60	61253	49747	8.25
		82	69	81448	56527	5.51	77807	55137	6.19	73968	53681	6.97	69758	51923	7.39	68407	51396	7.70	65736	50374	8.36
		82	67	78833	60763	5.45	75259	59307	6.12	71486	57818	6.91	67385	56044	7.34	66066	55484	7.65	63462	54462	8.31
		82	65	76153	65099	5.39	72678	63643	6.07	69004	62120	6.85	64978	60264	7.28	63692	59736	7.60	61154	58681	8.24
		82	63	73439	69600	5.33	70063	68110	6.01	66489	63085	6.79	62703	60587	7.23	61681	59547	7.54	59637	56369	8.21
		80	69	79164	55998	5.45	75590	54574	6.13	71817	53085	6.91	67681	51330	7.35	66363	50802	7.66	63758	49747	8.31
		80	67	78767	56693	5.45	75193	55236	6.12	71420	53747	6.91	67319	51989	7.34	66000	51429	7.65	63396	50407	8.29
		80	65	76252	60763	5.39	72777	59307	6.08	69103	57785	6.85	65077	55945	7.28	63758	55418	7.60	61220	54363	8.24
		80	63	73306	65661	5.32	69931	64205	6.01	66323	62650	6.79	62440	60791	7.22	61154	60231	7.53	58648	56489	8.19
	2400	78	69	81580	47988	5.51	77907	46565	6.19	74035	45109	6.97	69824	43418	7.39	68473	42890	7.70	65835	41868	8.36
		78	67	78866	52291	5.45	75292	50868	6.13	71552	49378	6.91	67418	47604	7.34	66099	47077	7.65	63495	46022	8.31
		78	65	76153	56759	5.39	72678	55302	6.07	69004	53780	6.85	64978	51956	7.28	63692	51429	7.60	61121	50374	8.24
		78	63	73406	61359	5.33	69997	59870	6.01	66423	58347	6.79	62505	56473	7.22	61220	55912	7.53	58747	54824	8.19
		76	69	81613	43653	5.51	77940	42230	6.19	74101	40774	6.97	69890	39099	7.39	68505	38571	7.71	65868	37549	8.36
		76	67	78767	48253	5.45	75193	46830	6.12	71420	45341	6.91	67319	43582	7.34	65967	43055	7.65	63396	42033	8.29
		76	65	76219	52423	5.39	72711	50967	6.07	69037	49445	6.85	65011	47670	7.28	63725	47143	7.60	61187	46055	8.24
		76	63	73637	56759	5.33	70229	55269	6.02	66654	53714	6.80	62703	51890	7.23	61451	51330	7.54	58945	50242	8.19
		80.6	66.2	77741	59572	5.43	74200	58149	6.10	70460	56626	6.89	66396	54824	7.32	65077	54297	7.63	62505	53242	8.27

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

080K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU080GC1	2300	82	69	98753	64442	6.90	94305	62636	7.72	89289	60696	8.67	82090	57273	8.86	80057	56486	9.22	75959	54847	9.96
		82	67	95709	68889	6.84	91362	67084	7.67	86480	65110	8.60	79500	61600	8.80	77566	60781	9.16	73533	59141	9.90
		82	65	92566	73504	6.79	88386	71698	7.60	83670	69692	8.53	76877	66059	8.73	75009	65239	9.10	71107	63534	9.84
		82	63	89422	78253	6.72	85343	76414	7.54	80795	74407	8.48	74222	70648	8.68	72386	69829	9.04	68649	68091	9.79
		80	69	96111	63940	6.86	91763	62168	7.68	86881	60195	8.61	79861	56781	8.81	77894	55961	9.17	73861	54289	9.91
		80	67	95643	64676	6.84	91295	62870	7.67	86446	60897	8.60	79467	57469	8.80	77500	56650	9.16	73501	54978	9.90
		80	65	92700	68990	6.79	88519	67184	7.60	83771	65177	8.54	77008	61633	8.75	75107	60813	9.10	71206	59141	9.85
		80	63	89255	74173	6.72	85209	72367	7.53	80627	70327	8.47	74091	66682	8.67	72255	65829	9.04	68485	64157	9.78
		78	69	98920	55513	6.91	94439	53740	7.73	89422	51767	8.67	82221	48552	8.86	80188	47766	9.22	76058	46126	9.96
		78	67	95776	60094	6.84	91462	58288	7.67	86580	56315	8.60	79598	52978	8.80	77631	52159	9.16	73632	50519	9.90
		78	65	92599	64810	6.79	88419	63004	7.60	83670	60997	8.54	76910	57568	8.73	75009	56748	9.10	71107	55044	9.84
		78	63	89356	69692	6.72	85309	67886	7.53	80761	65846	8.48	74189	62289	8.68	72353	61436	9.04	68583	59764	9.79
		76	69	99020	50998	6.91	94539	49226	7.73	89489	47253	8.68	82254	44127	8.87	80254	43340	9.22	76123	41701	9.96
		76	67	95676	55914	6.84	91329	54108	7.67	86446	52135	8.60	79467	48880	8.80	77533	48061	9.16	73501	46389	9.90
		76	65	92700	60328	6.79	88486	58523	7.60	83771	56516	8.54	76976	53175	8.75	75074	52322	9.10	71173	50651	9.85
		76	63	89657	64910	6.73	85577	63071	7.54	80995	61064	8.48	74419	57568	8.68	72583	56748	9.05	68813	55044	9.79
	2750	80.6	66.2	94439	67719	6.82	90158	65913	7.64	85343	63907	8.58	78451	60420	8.78	76517	59600	9.13	72550	57928	9.88
		82	69	101695	69659	6.96	96980	67853	7.79	91696	65846	8.72	84188	62321	8.91	82090	61502	9.26	77762	59863	10.00
		82	67	98619	74875	6.90	94004	73070	7.72	88887	71030	8.66	81598	67370	8.85	79533	66551	9.20	75336	64879	9.94
		82	65	95442	80293	6.83	90994	78454	7.66	86045	76380	8.59	78943	72583	8.79	76976	71763	9.14	72878	70058	9.88
		82	63	92231	85844	6.78	87951	84005	7.59	83135	81932	8.52	76681	71568	8.73	75074	71568	9.10	71763	69859	9.86
		80	69	99020	69090	6.91	94439	67284	7.73	89289	65244	8.67	81926	61699	8.86	79893	60879	9.21	75664	59207	9.95
		80	67	98552	69926	6.90	93970	68087	7.72	88820	66080	8.66	81533	62518	8.85	79500	61699	9.20	75304	59994	9.94
		80	65	95576	74976	6.84	91128	73136	7.66	86179	71097	8.60	79074	67403	8.79	77074	66583	9.15	72976	64879	9.89
		80	63	92098	81095	6.78	87784	79223	7.59	82968	77149	8.52	76123	73337	8.72	74222	72484	9.08	70583	70452	9.83
		78	69	101863	59225	6.97	97147	57419	7.79	91830	55412	8.72	84319	52093	8.91	82188	51273	9.27	77861	49634	10.00
		78	67	98719	64575	6.90	94104	62736	7.72	88988	60730	8.66	81664	57273	8.85	79631	56453	9.21	75402	54748	9.94
		78	65	95475	70093	6.84	91028	68254	7.66	86078	66214	8.59	78975	62616	8.79	76976	61797	9.14	72911	60092	9.89
		78	63	92198	75845	6.78	87918	73972	7.59	83102	71899	8.52	76222	68157	8.72	74287	67337	9.08	70321	65600	9.83
		76	69	101963	53908	6.97	97214	52102	7.79	91897	50129	8.73	84352	46913	8.91	82254	46094	9.27	77926	44454	10.01
		76	67	98585	59660	6.90	94004	57820	7.72	88854	55814	8.66	81565	52454	8.85	79500	51634	9.20	75304	49962	9.94
		76	65	95576	64843	6.84	91128	63004	7.66	86145	60964	8.60	79041	57469	8.79	77041	56650	9.15	72976	54945	9.89
		76	63	92499	70194	6.78	88185	68321	7.60	83370	66281	8.53	76484	62649	8.73	74550	61797	9.09	70583	60092	9.83
		80.6	66.2	97315	73504	6.88	92800	71665	7.70	87750	69625	8.63	80516	65993	8.83	78516	65174	9.18	74353	63469	9.92

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

090K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU090GC1	2600	82	69	109351	71322	7.46	103895	69165	8.40	97753	66780	9.46	95193	66984	10.20	92594	65958	10.63	90066	64948	11.07
		82	67	106019	76222	7.39	100726	74066	8.32	94780	71648	9.38	92286	72044	10.13	89756	70984	10.55	84525	68796	11.43
		82	65	102653	81286	7.31	97491	79097	8.24	91741	76647	9.30	89312	77242	10.06	86850	76182	10.49	81789	73959	11.36
		82	63	99223	86514	7.23	94224	84292	8.17	88637	81809	9.23	86268	82644	9.98	83909	81550	10.41	79054	74685	11.29
		80	69	106476	70832	7.40	101151	68675	8.33	95172	66258	9.39	92697	66402	10.14	90132	65342	10.56	87639	64299	11.00
		80	67	105953	71616	7.38	100660	69427	8.32	94682	67009	9.38	92218	67223	10.13	89688	66163	10.55	84456	63975	11.43
		80	65	102784	76353	7.31	97622	74164	8.24	91839	71714	9.31	89448	72113	10.06	86987	71018	10.49	81892	68830	11.36
		80	63	99027	82070	7.23	94061	79849	8.16	88474	77366	9.22	86132	77994	9.98	83738	76900	10.41	78849	74677	11.28
		78	69	109482	61618	7.47	104026	59462	8.40	97883	57077	9.46	95330	56828	10.21	92731	55768	10.63	90203	54728	11.06
		78	67	106117	66650	7.39	100791	64461	8.32	94845	62043	9.38	92355	61992	10.13	89825	60932	10.56	84593	58743	11.44
		78	65	102653	71812	7.31	97524	69623	8.24	91741	67172	9.31	89312	67360	10.06	86850	66266	10.49	81789	64077	11.36
		78	63	99158	77170	7.23	94159	74948	8.16	88572	72465	9.23	86234	72865	9.98	83841	71771	10.41	78917	69548	11.28
		76	69	109580	56685	7.47	104091	54529	8.40	97949	52143	9.46	95398	51700	10.21	92765	50640	10.63	90205	49601	11.06
		76	67	105953	62076	7.38	100660	59887	8.32	94714	57469	9.38	92218	57205	10.13	89688	56145	10.55	84456	53990	11.43
		76	65	102751	66911	7.31	97589	64722	8.24	91807	62272	9.31	89380	62231	10.06	86918	61137	10.49	81858	58948	11.36
		76	63	99452	71942	7.24	94453	69721	8.17	88833	67238	9.23	86508	67394	9.99	84114	66300	10.42	79191	64077	11.29
		80.6	66.2	104875	83116	7.36	99648	80927	8.29	93734	78477	9.36	91295	79225	10.11	88799	78131	10.53	83601	75942	11.41
	3000	82	69	111965	75830	7.52	106280	73641	8.46	99876	71224	9.52	97142	71600	10.25	94441	70540	10.68	91814	69496	11.12
		82	67	108632	81384	7.44	103078	79163	8.38	96871	76712	9.44	94235	77310	10.18	91568	76250	10.60	88977	75205	11.04
		82	65	105234	87135	7.37	99844	84880	8.30	93832	82397	9.36	91226	83225	10.11	88662	82131	10.52	83396	79909	11.40
		82	63	101739	93048	7.29	96544	90794	8.22	90696	88245	9.28	88559	85462	10.04	86029	82056	10.47	81721	75352	11.36
		80	69	109057	75242	7.46	103503	73053	8.39	97295	70603	9.45	94612	70950	10.19	91945	69856	10.61	89353	68779	11.04
		80	67	108534	76124	7.44	103013	73935	8.37	96805	71485	9.43	94133	71839	10.17	91500	70779	10.60	88941	69735	11.05
		80	65	105365	81515	7.37	99974	79293	8.30	93963	76810	9.36	91363	77378	10.11	88799	76284	10.53	83499	74062	11.41
		80	63	101575	88017	7.29	96381	85762	8.22	90532	83247	9.28	88012	84080	10.03	85550	82952	10.45	80558	79563	11.33
		78	69	112128	64787	7.53	106411	62598	8.46	100007	60181	9.52	97279	60043	10.26	94543	58983	10.68	91885	57941	11.11
		78	67	108698	70472	7.45	103176	68283	8.38	96969	65800	9.44	94304	65924	10.18	91637	64830	10.60	89045	63754	11.04
		78	65	105234	76353	7.37	99876	74131	8.30	93832	71648	9.36	91226	71976	10.11	88696	70882	10.53	83396	68659	11.40
		78	63	101706	82463	7.29	96479	80176	8.22	90630	77660	9.28	88115	78267	10.03	85653	77173	10.46	80524	74916	11.33
		76	69	112193	59168	7.53	106476	57012	8.46	100072	54594	9.52	97313	54230	10.26	94612	53170	10.68	91985	52131	11.11
		76	67	108567	65277	7.44	103013	63088	8.37	96805	60605	9.44	94167	60487	10.17	91500	59427	10.60	88908	58386	11.05
		76	65	105300	70799	7.37	99942	68577	8.30	93898	66094	9.36	91295	66163	10.11	88730	65069	10.53	83465	62846	11.41
		76	63	102000	76484	7.29	96773	74229	8.22	90924	71714	9.29	88388	72044	10.04	85892	70916	10.46	80798	68693	11.33
		80.6	66.2	107489	89193	7.42	102000	86971	8.35	95858	84488	9.41	93210	85448	10.15	90611	84388	10.58	88085	83341	11.03

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

120K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU120GC2	3500	82	69	137890	92595	9.11	131876	90238	10.26	125265	87706	11.56	123679	88937	13.25	120916	87868	13.79	115205	85658	14.89
		82	67	133599	99452	9.04	127726	97096	10.19	121326	94529	11.15	119737	96047	13.18	117047	94942	13.71	111521	92732	14.82
		82	65	129203	106521	8.98	123541	104164	10.13	117317	101562	11.08	115758	103379	13.11	113105	102274	13.64	107726	100026	14.75
		82	63	124737	113835	8.91	119251	111444	10.06	113238	108807	11.01	112295	110526	13.04	109642	104862	13.58	105295	101025	14.70
		80	69	134197	91821	9.05	128324	89465	10.20	121889	86898	11.16	120289	88053	13.19	117600	86984	13.73	112037	84737	14.82
		80	67	133529	92911	9.04	127691	90555	10.19	121256	87988	11.15	119700	89195	13.18	117011	88089	13.71	111447	85879	14.82
		80	65	129414	99558	8.98	123752	97166	10.13	117493	94599	11.08	115942	96047	13.11	113326	94979	13.65	107911	92732	14.75
		80	63	124526	107576	8.91	119075	105184	10.06	113027	102547	11.01	111484	104374	13.03	108942	103232	13.57	103674	100947	14.66
		78	69	138206	78774	9.11	132157	76453	10.26	125546	73921	11.22	123937	74495	13.25	121174	73426	13.80	115463	71216	14.89
		78	67	133775	85843	9.04	127937	83486	10.20	121502	80919	11.15	119921	81789	13.18	117232	80684	13.73	111668	78474	14.82
		78	65	129274	93122	8.98	123612	90731	10.13	117387	88164	11.08	115832	89305	13.11	113216	88200	13.64	107800	85953	14.75
		78	63	124702	100648	8.91	119251	98221	10.06	113202	95619	11.01	111632	97116	13.03	109089	95974	13.57	103858	93689	14.66
		76	69	138382	71776	9.11	132333	69455	10.26	125687	66923	11.22	124084	67163	13.25	121284	66095	13.80	115574	63921	14.89
		76	67	133634	79337	9.04	127797	76980	10.19	121361	74448	11.15	119774	74974	13.18	117084	73905	13.71	111558	71658	14.82
		76	65	129414	86194	8.98	123752	83803	10.13	117528	81200	11.08	115942	82047	13.11	113326	80942	13.65	107911	78695	14.75
		76	63	125159	93228	8.92	119673	90801	10.07	113589	88199	11.02	112037	89342	13.04	109495	88200	13.58	104226	85916	14.67
		80.6	66.2	131841	97623	9.02	126038	95232	10.16	119708	92665	11.12	118153	94058	13.15	115463	92989	13.69	110011	90742	14.78
		82	69	140597	98327	9.15	134373	95971	10.30	127550	93403	11.26	125779	94868	13.29	122942	93800	13.82	117084	91589	14.93
		82	67	136272	106028	9.09	130188	103637	10.24	123577	101070	11.19	121837	102863	13.21	119074	101758	13.75	113363	99547	14.86
		82	65	131841	113976	9.02	125968	111585	10.16	119532	108947	11.12	117821	111079	13.14	115132	109974	13.68	109937	107505	14.78
		82	63	127375	122170	8.96	122205	119427	10.10	116367	114583	11.07	115942	109525	13.11	113732	109972	13.65	109200	107582	14.77
		80	69	136905	97448	9.09	130821	95056	10.24	124139	92489	11.20	122426	93874	13.23	119626	92805	13.76	113879	90558	14.86
		80	67	136202	98678	9.08	130153	96287	10.24	123506	93720	11.19	121800	95163	13.21	119000	94058	13.75	113289	91811	14.86
		80	65	132052	106134	9.02	126179	103742	10.16	119708	101140	11.12	118005	102863	13.14	115316	101758	13.69	109753	99511	14.78
		80	63	127164	115137	8.95	121467	112710	10.09	115242	110073	11.05	114026	111889	13.08	111447	110968	13.62	106768	104896	14.72
		78	69	140914	82818	9.15	134654	80462	10.31	127797	77895	11.26	126074	78621	13.29	123200	77553	13.84	117342	75379	14.93
		78	67	136483	90731	9.09	130399	88339	10.24	123752	85772	11.19	122021	86837	13.21	119258	85732	13.76	113511	83521	14.86
		78	65	131946	98889	9.02	126073	96498	10.16	119603	93896	11.12	117895	95274	13.14	115205	94168	13.68	109642	91921	14.78
		78	63	127339	107330	8.96	121642	104903	10.09	115383	102265	11.05	113695	104042	13.07	111079	102900	13.60	105663	100616	14.70
		76	69	141090	74941	9.16	134830	72585	10.31	127937	70053	11.26	126221	70405	13.30	123347	69337	13.84	117453	67126	14.93
		76	67	136342	83416	9.09	130258	81025	10.24	123612	78457	11.19	121911	79174	13.21	119111	78068	13.75	113400	75858	14.86
		76	65	132087	91082	9.02	126214	88691	10.16	119743	86054	11.13	118042	87095	13.14	115316	85989	13.69	109753	83742	14.78
		76	63	127797	98995	8.96	122064	96568	10.10	115805	93931	11.06	114100	95311	13.08	111484	94168	13.62	106068	91884	14.71
		80.6	66.2	134514	103953	9.05	128500	101562	10.20	121959	98960	11.16	120253	100653	13.19	117489	99547	13.73	111853	97300	14.82

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

150K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU150GC2	4400	80.6	69	170223	117703	11.40	162352	114655	12.79	153777	111339	14.38	142877	106454	15.03	139566	105163	15.64	132844	102547	16.92
			67	162151	130799	11.22	154615	127684	12.61	146408	124301	14.18	135957	119202	14.85	132778	117878	15.47	126355	115229	16.75
			65	159438	135321	11.15	152002	132173	12.54	143896	128790	14.12	133606	123606	14.78	130493	122282	15.40	124136	119600	16.68
			63	153911	144566	11.02	146710	141384	12.41	138838	137967	13.99	129467	115843	14.68	126951	115684	15.32	121851	119586	16.62
			69	169018	111272	11.38	161213	108190	12.77	152705	104874	14.35	141851	100064	15.00	138573	98772	15.62	131884	96157	16.90
			67	161448	123665	11.20	153945	120516	12.59	145772	117133	14.17	135361	112116	14.83	132182	110792	15.45	125758	108143	16.73
			65	158031	129326	11.12	150662	126177	12.50	142623	122794	14.09	132414	117679	14.75	129301	116322	15.37	123010	113640	16.65
			63	152873	138101	11.00	145705	134919	12.39	137867	131469	13.96	127944	126222	14.65	124997	124798	15.26	119235	109586	16.56
			69	170391	100218	11.41	162519	97137	12.80	153945	93854	14.39	143043	89170	15.03	139732	87879	15.65	133010	85263	16.92
			67	162586	112980	11.23	155050	109865	12.61	146810	106482	14.19	136321	101587	14.86	133142	100262	15.48	126686	97613	16.75
			65	159404	118239	11.15	151968	115124	12.54	143896	111707	14.12	133606	106719	14.78	130460	105395	15.40	124136	102746	16.68
			63	153777	127751	11.02	146576	124569	12.41	138738	121153	13.99	128739	115991	14.67	125725	114666	15.29	119567	111951	16.57
			69	170491	90906	11.41	162620	87992	12.80	154012	84877	14.39	143109	80428	15.03	139798	79137	15.65	133043	76554	16.93
			67	162486	104472	11.22	154916	101357	12.61	146676	98007	14.19	136222	93210	14.85	133043	91885	15.47	126586	89236	16.75
			65	159505	109429	11.15	152069	106281	12.54	143963	102898	14.12	133672	98011	14.78	130560	96719	15.40	124202	94037	16.68
			63	154280	118306	11.03	147045	115124	12.41	139173	111707	14.00	129169	106686	14.68	126123	105329	15.30	119964	102646	16.58
		66.2	76	163055	138704	11.24	155485	135589	12.62	147246	132240	14.20	136718	127050	14.87	133540	125725	15.49	127083	123076	16.76
			69	173573	125038	11.48	165434	121957	12.87	156591	118607	14.46	145361	113606	15.09	141950	112315	15.70	135030	109666	16.98
			67	165434	139743	11.29	157629	136561	12.68	149155	133178	14.25	138374	127911	14.91	135096	126586	15.52	128474	123904	16.80
			65	162687	144800	11.23	155016	141618	12.61	146609	138168	14.19	136023	132844	14.85	132778	131520	15.47	126884	116852	16.76
			63	157160	155150	11.09	150528	145893	12.50	143193	125846	14.10	134301	127649	14.81	131685	125986	15.44	126321	119856	16.74
			69	172367	117803	11.46	164295	114688	12.85	155485	111372	14.42	144301	106421	15.06	140924	105130	15.68	134036	102481	16.95
			67	164730	131670	11.28	156959	128522	12.67	148485	125105	14.24	137778	119964	14.89	134500	118639	15.51	127878	115924	16.78
			65	161280	138068	11.20	153643	134886	12.59	145336	131436	14.16	134798	126189	14.82	131586	124831	15.44	125096	122149	16.70
			63	156055	147915	11.07	148619	144700	12.46	140982	140714	14.04	131421	128956	14.73	128805	119845	15.36	123507	115682	16.66
			69	173774	105376	11.49	165601	102295	12.88	156758	98979	14.46	145493	94203	15.09	142083	92879	15.71	135162	90263	16.98
			67	165902	119679	11.30	158065	116530	12.69	149557	113147	14.26	138738	108143	14.91	135460	106819	15.53	128805	104137	16.81
			65	162687	125608	11.23	154983	122426	12.61	146609	119009	14.19	135990	113904	14.85	132778	112580	15.47	126222	109865	16.74
			63	156993	136293	11.09	149523	133077	12.48	141417	129594	14.05	131123	124302	14.72	127977	122944	15.34	121620	120229	16.62
			69	173841	95428	11.49	165702	92347	12.88	156825	89031	14.46	145559	84402	15.09	142149	83077	15.71	135195	80462	16.98
			67	165768	110166	11.30	157964	107018	12.69	149423	103601	14.26	138639	98706	14.91	135361	97382	15.53	128705	94700	16.80
			65	162787	115693	11.23	155083	112544	12.62	146710	109094	14.19	136089	104137	14.85	132844	102779	15.47	126288	100097	16.74
			63	157495	125675	11.10	149992	122459	12.49	141853	118975	14.07	131520	113838	14.73	128374	112481	15.35	122017	109766	16.63
		80.6	66.2	166371	148619	11.31	158500	145470	12.70	149959	142087	14.27	139169	136718	14.92	136056	135162	15.55	129666	119856	16.83

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

180K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU180GC2	5200	82	69	193890	133504	13.37	184687	129880	14.89	175232	126193	16.64	163098	120461	17.45	159839	119189	18.14	154180	116791	19.53
		82	67	184750	147813	13.17	175957	144157	14.68	166849	140375	16.41	155154	134332	17.24	151989	132998	17.92	146537	130562	19.32
		82	65	181630	152730	13.10	172963	149042	14.60	163981	145260	16.34	152454	139111	17.16	149351	137776	17.86	143957	135308	19.23
		82	63	175359	162815	12.96	166975	159127	14.46	158245	155282	16.20	147024	139542	17.02	144417	137452	17.72	145982	141384	19.08
		80	69	192504	126445	13.34	183364	122852	14.86	173940	119164	16.60	161856	113510	17.42	158629	112238	18.12	152970	109818	19.51
		80	67	183900	139965	13.15	175138	136309	14.66	166061	132527	16.39	154409	126605	17.22	151275	125271	17.90	145823	122842	19.30
		80	65	180023	146174	13.06	171419	142487	14.57	162500	138673	16.30	151058	132625	17.13	147955	131260	17.82	142620	128827	19.22
		80	63	174098	155724	12.93	165777	152005	14.44	157079	148160	16.17	145907	141904	16.99	142866	140507	17.67	147652	138040	19.05
		78	69	194016	113996	13.37	184814	110623	14.89	175295	107094	16.64	163160	101688	17.46	159901	100415	18.14	154242	98067	19.55
		78	67	185129	128304	13.18	176336	124648	14.69	167196	120866	16.42	155495	115124	17.25	152330	113821	17.93	146878	111372	19.33
		78	65	181536	134072	13.10	172869	130384	14.60	163886	126571	16.34	152361	120710	17.16	149227	119375	17.86	143864	116922	19.23
		78	63	175138	144409	12.95	166754	140690	14.46	158024	136877	16.19	146806	130764	17.02	143765	129398	17.70	138520	126879	19.09
		76	69	194048	102870	13.37	184814	99530	14.89	175327	96094	16.64	163160	91044	17.46	159901	89803	18.14	154214	87610	19.55
		76	67	184971	119007	13.17	176146	115351	14.69	167038	111600	16.42	155309	106032	17.24	152175	104698	17.93	146664	102319	19.31
		76	65	181599	124428	13.10	172932	120740	14.60	163950	116958	16.34	152423	111245	17.16	149289	109911	17.86	143926	107468	19.23
		76	63	175611	134072	12.97	167227	130384	14.47	158466	126539	16.20	147241	120616	17.03	144169	119251	17.71	138953	116771	19.10
		80.6	66.2	185822	156449	13.19	176966	152793	14.71	167826	149042	16.44	156085	142866	17.27	152919	141562	17.95	147438	139089	19.35
		82	69	198366	142581	13.48	188785	138925	15.00	178951	135206	16.73	166449	129305	17.55	163098	128033	18.24	157244	125598	19.64
		82	67	189131	158875	13.26	179960	155125	14.78	170505	151311	16.52	158443	145069	17.33	155185	143734	18.02	149540	141261	19.40
		82	65	185980	164485	13.20	176966	160735	14.71	167637	156890	16.43	155712	150530	17.26	152485	149165	17.94	146901	146690	19.34
		82	63	179645	175989	13.05	171041	160485	14.56	162405	160285	16.30	152299	150248	17.16	149692	145679	17.87	145058	142058	19.28
		80	69	196947	134576	13.44	187429	130889	14.95	177659	127170	16.70	165208	121392	17.52	161856	120089	18.20	156034	117692	19.61
		80	67	188280	149956	13.25	179141	146206	14.76	169717	142392	16.49	157698	136256	17.31	154440	134922	18.00	148825	132426	19.38
		80	65	184341	157016	13.16	175390	153265	14.67	166124	149420	16.39	154285	143145	17.22	151089	141779	17.90	145533	139280	19.30
		80	63	178384	167921	13.02	169686	164107	14.53	160640	160199	16.26	149878	142056	17.10	146434	144586	17.78	146584	142418	19.18
	6000	78	69	198460	120803	13.48	188879	117179	15.00	179014	113460	16.74	166480	107925	17.55	163129	106653	18.24	157247	104267	19.63
		78	67	189541	136656	13.27	180338	132937	14.79	170883	129124	16.53	158784	123223	17.34	155526	121889	18.03	149852	119433	19.40
		78	65	185885	143212	13.19	176871	139461	14.70	167542	135616	16.43	155619	129584	17.25	152392	128250	17.94	146808	125760	19.32
		78	63	179393	154999	13.05	170663	151217	14.55	161586	147340	16.28	150003	141035	17.10	146837	139669	17.79	141430	137113	19.18
		76	69	198492	109016	13.48	188879	105612	15.00	179046	102145	16.74	166480	96971	17.55	163129	95761	18.24	157220	93500	19.63
		76	67	189352	126098	13.27	180181	122379	14.78	170694	118566	16.52	158598	112859	17.34	155340	111524	18.02	149667	109109	19.42
		76	65	185948	132244	13.20	176934	128493	14.70	167574	124648	16.43	155650	118786	17.25	152423	117451	17.94	146839	114971	19.32
		76	63	179928	143243	13.06	171135	139461	14.56	162059	135585	16.29	150437	129460	17.11	147272	128095	17.80	141836	125548	19.19
		80.6	66.2	190203	168709	13.29	181000	164990	14.80	171482	161208	16.54	159374	154812	17.36	156116	153478	18.04	160445	150999	19.44

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

210K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																			
				85.00			95.00			105.00			115.00			118.40			125.00				
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW		
HY3RTHU210GC2	6300	82	69	226631	158154	15.34	215229	153618	17.22	202440	148578	19.37	186834	141632	19.75	181742	139571	20.55	171277	135354	22.20		
		82	67	216457	175352	15.11	205527	170753	17.00	193274	165619	19.15	178306	158438	19.55	173401	156346	20.36	163405	152035	22.02		
		82	65	213024	181305	15.04	202220	176643	16.92	190124	171477	19.07	175401	164217	19.48	170590	162125	20.30	160688	157814	21.96		
		82	63	205968	193463	14.88	195511	188770	16.78	183793	183541	18.92	169965	162589	19.37	165155	161522	20.18	157095	152680	21.88		
		80	69	225056	149807	15.31	213685	145271	17.19	200991	140231	19.34	185490	133354	19.72	180430	131293	20.52	170028	127044	22.18		
		80	67	215512	166060	15.09	204582	161429	16.98	192392	156327	19.13	177494	149192	19.53	172620	147099	20.34	162656	142788	22.00		
		80	65	211165	173556	15.00	200456	168895	16.88	188487	163697	19.04	173839	156502	19.46	169059	154378	20.26	159251	150035	21.92		
		80	63	204551	185053	14.86	194125	180360	16.75	182502	175100	18.89	168278	167779	19.33	163624	152036	20.15	154690	150236	21.82		
		78	69	226663	134813	15.34	215229	130687	17.22	202440	125899	19.37	186802	119172	19.75	181711	117111	20.55	171277	112894	22.20		
		78	67	216835	152169	15.12	205874	147570	17.01	193589	142436	19.15	178618	135479	19.56	173714	133354	20.36	163686	129075	22.03		
		78	65	212835	159130	15.04	202031	154468	16.92	189967	149303	19.07	175244	142226	19.48	170434	140102	20.29	160563	135791	21.95		
		78	63	205653	171572	14.88	195196	166879	16.77	183510	161650	18.92	169216	154409	19.35	164561	152285	20.17	154971	147911	21.83		
		76	69	226631	121363	15.34	215166	117237	17.22	202377	112701	19.37	186771	106646	19.75	181679	104803	20.55	171215	101023	22.20		
		76	67	216583	141176	15.12	205622	136577	17.01	193369	131474	19.15	178399	124577	19.56	173495	122484	20.36	163468	118204	22.02		
		76	65	212866	147665	15.04	202062	143034	16.92	189999	137869	19.07	175244	130887	19.48	170434	128762	20.30	160563	124452	21.95		
		76	63	206189	159319	14.89	195700	154594	16.78	183982	149397	18.93	169653	142257	19.36	164998	140102	20.18	155408	135760	21.84		
		80.6	66.2	217686	185620	15.14	206693	181021	17.03	194377	175887	19.17	179337	168653	19.58	174432	166529	20.38	164342	162249	22.04		
		82	69	230348	165839	15.42	218568	161272	17.31	205433	156169	19.44	189426	149130	19.81	184210	147068	20.61	173464	142788	22.25		
		82	67	220111	184738	15.19	208835	180076	17.08	196235	174879	19.21	180867	167591	19.62	175869	165467	20.42	165561	161125	22.06		
		82	65	216646	191258	15.12	205527	186565	17.00	193085	181368	19.14	177962	173964	19.54	172995	171808	20.35	162874	161258	22.01		
		82	63	209559	204645	14.97	198755	194856	16.85	187510	182569	19.02	173901	171263	19.46	169840	164589	20.28	161469	151253	21.97		
		80	69	228742	156705	15.39	217024	152106	17.26	203984	147003	19.41	188083	140039	19.77	182898	137946	20.58	172246	133667	22.22		
		80	67	219135	174533	15.17	207890	169871	17.06	195353	164674	19.19	180055	157439	19.60	175057	155315	20.40	164811	150973	22.05		
		80	65	214788	182754	15.08	203732	178029	16.97	191416	172800	19.10	176400	165467	19.51	171496	163312	20.32	161437	158938	21.97		
		80	63	208142	195416	14.94	197401	190660	16.82	185400	185337	18.97	171340	162589	19.40	166404	161630	20.20	158095	152020	21.90		
		78	69	230348	140924	15.42	218568	136325	17.31	205433	131285	19.44	189395	124452	19.81	184178	122390	20.61	173464	118110	22.25		
		78	67	220489	159256	15.20	209181	154594	17.09	196550	149429	19.22	181180	142351	19.62	176150	140227	20.42	165873	135885	22.07		
		78	65	216457	166879	15.11	205338	162185	17.00	192928	156957	19.14	177806	149786	19.54	172870	147630	20.34	162718	143257	22.00		
		78	63	209244	180580	14.96	198472	175824	16.84	186408	170532	18.99	171746	163155	19.41	166966	161000	20.21	157126	156595	21.88		
		76	69	230285	126687	15.42	218505	122529	17.31	205370	117930	19.44	189364	111832	19.80	184116	109926	20.61	173433	105678	22.25		
		76	67	220237	147192	15.19	208929	142530	17.08	196330	137365	19.22	180961	130387	19.62	175932	128263	20.42	165654	123921	22.07		
		76	65	216457	154311	15.11	205338	149586	17.00	192928	144389	19.14	177806	137290	19.54	172870	135166	20.34	162749	130824	22.00		
		76	63	209780	167099	14.97	198976	162343	16.85	186912	157051	19.00	172183	149786	19.42	167404	147630	20.22	157564	143226	21.89		
	7000	80.6	66.2	221339	196046	15.22	210000	191384	17.10	197338	186187	19.24	181898	178806	19.63	176869	176681	20.44	166810	156625	22.10		

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Tempratuire
WBT: Wet Bulb Tempratuire

COOLING PERFORMANCE DATA

240K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																			
				85.00			95.00			105.00			115.00			118.40			125.00				
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU240GC2	7000	82	69	262385	182829	17.78	249718	177562	19.99	235532	171746	22.57	217521	163309	23.04	211863	160911	24.05	200228	156021	26.12
		82	67	250590	201926	17.55	238473	196595	19.76	224901	190681	22.35	207676	181944	22.84	202242	179515	23.84	191054	174528	25.91
		82	65	246551	208486	17.49	234660	203186	19.70	221282	197209	22.27	204288	188369	22.77	198950	185908	23.77	187922	180921	25.83
		82	63	238408	222025	17.34	226872	216661	19.54	213947	210651	22.12	197447	193562	22.63	192237	191253	23.63	181880	179152	25.69
		80	69	260413	173587	17.75	247844	168353	19.96	233755	162504	22.53	215891	154167	23.01	210265	151737	24.01	198694	146815	26.08
		80	67	249362	191586	17.53	237309	186287	19.74	223802	180373	22.33	206653	171716	22.82	201219	169286	23.82	190095	164300	25.88
		80	65	244321	199891	17.44	232527	194559	19.65	219279	188581	22.22	202434	179803	22.73	197128	177373	23.73	186196	172323	25.79
		80	63	236663	212687	17.31	225257	207290	19.52	212363	201280	22.09	196009	192301	22.61	190831	189840	23.59	180186	176258	25.65
		78	69	262158	155007	17.78	249492	150386	19.99	235306	145281	22.56	217329	137993	23.04	211640	135915	24.04	200036	131184	26.11
		78	67	250784	176205	17.56	238699	170905	19.78	225095	164992	22.35	207836	156532	22.84	202402	154071	23.84	191214	149116	25.91
		78	65	246163	183863	17.47	234272	178564	19.69	220927	172618	22.26	203968	164012	22.77	198598	161551	23.76	187602	156564	25.82
		78	63	237891	197693	17.33	226387	192329	19.54	213462	186319	22.11	197000	177533	22.63	191821	175040	23.61	181113	169957	25.68
		76	69	261997	139626	17.77	249298	135005	19.98	235144	129900	22.56	217138	122777	23.04	211480	120700	24.04	199845	116512	26.11
		76	67	250396	162375	17.55	238279	157657	19.76	224740	152487	22.34	207484	144481	22.84	202050	142052	23.84	190894	137066	25.90
		76	65	246066	170905	17.47	234175	165865	19.69	220862	159919	22.26	203872	151482	22.76	198534	149020	23.76	187538	144002	25.82
		76	63	238408	184057	17.34	226872	178693	19.54	213915	172715	22.12	197447	164044	22.63	192237	161583	23.63	181529	156532	25.68
	8000	80.6	66.2	252109	213333	17.59	239927	208001	19.80	226291	202088	22.37	208923	193228	22.87	203457	190799	23.87	192237	185844	25.93
		82	69	268039	193848	17.89	254823	188516	20.09	240121	182571	22.68	221517	173953	23.14	215667	171524	24.13	203648	166569	26.19
		82	67	256148	215304	17.67	243546	209908	19.87	229457	203897	22.44	211608	194922	22.92	205982	192461	23.92	194443	187410	25.98
		82	65	252109	222736	17.59	239701	217307	19.79	225806	211265	22.37	208219	202178	22.85	202690	199685	23.85	191278	190358	25.91
		82	63	243869	237988	17.43	231881	220136	19.64	218406	203562	22.21	202050	192563	22.73	197511	193256	23.74	188177	184526	25.83
		80	69	266068	183443	17.85	252949	178111	20.06	238343	172166	22.63	219855	163628	23.10	214037	161199	24.09	202114	156245	26.16
		80	67	254920	203704	17.64	242383	198307	19.84	228359	192265	22.42	210585	183415	22.90	204991	180921	23.90	193484	175871	25.96
		80	65	249847	213042	17.54	237568	207613	19.75	223802	201539	22.33	206334	192525	22.81	200836	190031	23.81	189520	184949	25.86
		80	63	242124	227454	17.41	230200	221961	19.61	216823	215853	22.18	199877	196582	22.68	194730	193526	23.68	184246	182152	25.74
		78	69	267813	165057	17.88	254597	160210	20.09	239894	154296	22.66	221293	145984	23.13	215444	143554	24.12	203425	138632	26.19
		78	67	256374	186351	17.67	243740	180955	19.87	229651	174945	22.45	211800	166281	22.93	206174	163820	23.92	194602	158770	25.99
		78	65	251689	194979	17.58	239281	189583	19.79	225418	183508	22.36	207868	174720	22.85	202338	172227	23.84	190958	167177	25.91
		78	63	243352	210554	17.43	231364	205093	19.63	217921	198986	22.20	200899	189936	22.70	195497	187442	23.70	184438	182296	25.75
		76	69	267619	147511	17.88	254403	142825	20.08	239701	137655	22.66	221101	130417	23.13	215252	128307	24.12	203233	124056	26.19
		76	67	255954	172618	17.66	243352	167254	19.87	229263	161244	22.44	211416	152728	22.92	205790	150267	23.92	194283	145217	25.98
		76	65	251592	180696	17.58	239216	175268	19.78	225353	169225	22.36	207804	160592	22.84	202274	158098	23.84	190894	153016	25.90
		76	63	243837	195205	17.43	231816	189744	19.64	218374	183637	22.21	201315	174784	22.71	195913	172259	23.71	184853	167113	25.76
		80.6	66.2	257667	228165	17.69	245000	222768	19.90	230847	216758	22.47	212886	207676	22.95	207229	205215	23.95	195625	185725	26.01

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

270K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY3RTHU270GC2	8200	82	69	285215	202810	19.55	271686	197260	21.76	256264	190890	24.35	240133	184313	25.31	233765	181588	26.32	220618	175981	28.41
		82	67	272474	224160	19.26	259607	218547	21.48	244880	212082	24.06	229488	205538	25.05	223374	202750	26.06	210797	197111	28.15
		82	65	268122	231540	19.16	255476	225895	21.38	241001	219430	23.97	225845	212888	24.96	219826	210100	25.98	207439	204398	28.07
		82	63	259323	246677	18.96	247119	241001	21.20	233148	215633	23.78	218432	196358	24.79	212793	210569	25.81	201357	185695	27.90
		80	69	283039	192498	19.50	269604	186916	21.71	254309	180546	24.29	238295	173922	25.26	231959	171197	26.27	218907	165558	28.36
		80	67	271087	212618	19.23	258283	206973	21.45	243650	200540	24.03	228316	193912	25.03	222265	191156	26.04	209752	185453	28.12
		80	65	265662	221890	19.11	253142	216245	21.33	238793	209748	23.92	223786	203131	24.91	217830	200374	25.93	205538	194672	28.02
		80	63	257400	236176	18.92	245290	230499	21.15	231414	224003	23.74	216816	214569	24.75	211051	206596	25.77	199139	195236	27.84
		78	69	284805	171495	19.54	271276	166638	21.75	255854	161182	24.33	239721	155611	25.30	233385	153330	26.31	220238	147818	28.40
		78	67	272569	195368	19.26	259702	189754	21.48	244974	183321	24.06	229552	176646	25.06	223437	173890	26.06	210860	168220	28.15
		78	65	267554	203946	19.15	254940	198301	21.37	240496	191867	23.95	225370	185168	24.95	219382	182412	25.97	206996	176710	28.05
		78	63	258630	219398	18.95	246457	213722	21.17	232518	207225	23.77	217862	200565	24.77	212064	197777	25.79	200089	192043	27.87
		76	69	284489	153866	19.54	270960	149009	21.74	255539	143585	24.32	239436	137934	25.29	233100	135621	26.30	219984	130932	28.39
		76	67	272033	179852	19.25	259197	174932	21.47	244470	169413	24.05	229076	162992	25.04	222994	160236	26.05	210449	154534	28.14
		76	65	267397	189597	19.14	254782	184141	21.37	240339	177676	23.95	225211	170944	24.94	219224	168156	25.96	206869	162454	28.05
		76	63	259134	204135	18.96	246930	198490	21.18	232928	191993	23.78	218274	185263	24.78	212476	182475	25.80	200470	176710	27.88
	9000	80.6	66.2	274177	236933	19.30	261247	231319	21.51	246425	224886	24.10	230914	218400	25.09	224768	215644	26.10	212096	209973	28.19
		82	69	289441	211199	19.65	275533	205554	21.85	259670	199152	24.42	243110	192550	25.38	236584	189793	26.39	223152	184123	28.47
		82	67	276605	234378	19.36	263392	228670	21.57	248254	222142	24.15	232434	215549	25.12	226193	212761	26.13	213300	207027	28.22
		82	65	272253	242388	19.26	259229	236649	21.47	244375	230121	24.05	228760	223532	25.04	222614	220713	26.04	209942	204685	28.13
		82	63	263392	258819	19.05	250840	249562	21.27	236428	234528	23.86	221663	215623	24.86	216563	212456	25.90	206172	202685	28.03
		80	69	287233	200004	19.61	273420	194359	21.81	257715	187894	24.38	241273	181240	25.33	234779	178484	26.34	221442	172813	28.43
		80	67	275218	221827	19.33	262067	216119	21.53	247024	209591	24.12	231262	202941	25.10	225053	200153	26.10	212223	194387	28.19
		80	65	269762	231887	19.19	256895	226179	21.41	242136	219619	24.00	226700	212951	24.98	220586	210132	26.00	208009	204366	28.08
		80	63	261468	247434	19.01	248980	241695	21.24	234694	231586	23.82	219699	214586	24.82	213775	211235	25.83	201927	196589	27.92
		78	69	288968	179347	19.64	275060	174459	21.84	259229	168656	24.41	242699	161947	25.37	236173	159191	26.38	222772	153552	28.46
		78	67	276700	203094	19.36	263455	197418	21.57	248317	190921	24.15	232498	184186	25.12	226257	181398	26.13	213363	175664	28.22
		78	65	271686	212397	19.24	258693	206689	21.46	243839	200161	24.04	228284	193437	25.03	222138	190617	26.03	209498	184851	28.12
		78	63	262698	229206	19.04	250146	223467	21.26	235829	216876	23.84	220776	210164	24.84	214820	207312	25.86	202560	201515	27.94
		76	69	288652	160015	19.64	274745	155127	21.84	258913	149640	24.41	242414	143953	25.36	235856	141672	26.37	222455	136952	28.45
		76	67	276164	188304	19.35	262919	182659	21.56	247844	176131	24.14	232023	169360	25.11	225782	166540	26.12	212920	160838	28.21
		76	65	271496	197008	19.24	258504	191300	21.46	243681	184772	24.03	228126	177977	25.02	221980	175157	26.03	209340	169392	28.11
		76	63	263171	212618	19.05	250619	206878	21.27	236239	200319	23.85	221156	193500	24.85	215201	190680	25.87	202941	184883	27.95
		80.6	66.2	278340	248254	19.39	265000	242546	21.60	249799	236050	24.18	233860	229520	25.16	227587	226732	26.16	214599	195863	28.25

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Tempriature
WBT: Wet Bulb Tempriature

COOLING PERFORMANCE DATA

300K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																			
				85.00			95.00			105.00			115.00			118.40			125.00				
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW		
HY3RTHU300GC2	9200	82	69	323205	232161	22.48	307941	225806	24.98	291175	218813	27.68	274922	212391	29.19	268263	209496	30.21	254625	203610	32.28		
		82	67	309186	256048	22.17	294656	249597	24.65	278657	242508	27.33	263117	236162	28.84	256716	233235	29.86	243689	227252	31.94		
		82	65	304396	264319	22.07	290121	257868	24.53	274378	250715	27.20	259064	244396	28.72	252792	241437	29.74	239893	235454	31.83		
		82	63	294656	281276	21.86	280861	274761	24.29	265628	261548	26.95	250830	249658	28.47	244718	241568	29.51	232495	231586	31.60		
		80	69	320618	219483	22.41	305514	214022	24.92	288876	207316	27.62	272734	200844	29.12	266140	197917	30.14	252599	192030	32.22		
		80	67	307526	243210	22.14	293091	236760	24.61	277156	229670	27.28	261702	223231	28.79	255333	220304	29.81	242370	214289	31.90		
		80	65	301554	253589	22.01	287407	247106	24.46	271791	239985	27.12	256652	233589	28.65	250411	230629	29.67	237674	224582	31.76		
		80	63	292421	269588	21.81	278753	263105	24.23	263616	255920	26.89	248900	243562	28.43	242852	240125	29.45	230469	226589	31.55		
		78	69	322407	194479	22.46	307174	189050	24.96	290409	183110	27.66	274182	177749	29.16	267524	175336	30.18	253917	170447	32.26		
		78	67	308994	223188	22.17	294464	217599	24.64	278434	210542	27.32	262924	203964	28.83	256523	201037	29.85	243496	195054	31.94		
		78	65	303502	233598	22.05	289227	227179	24.51	273516	220058	27.17	258260	213517	28.70	251987	210558	29.72	239153	204543	31.81		
		78	63	293666	250874	21.83	279934	244392	24.26	264734	237239	26.92	249961	230758	28.46	243882	227767	29.48	231433	221719	31.58		
		76	69	321896	174392	22.45	306631	168963	24.95	289866	163024	27.65	273635	157516	29.15	266977	155104	30.16	253403	150247	32.24		
		76	67	308260	204059	22.15	293762	198566	24.62	277763	192531	27.30	262248	187141	28.81	255880	184664	29.83	242852	179679	31.92		
		76	65	303151	215204	22.04	288908	209647	24.50	273196	203612	27.16	257970	197659	28.69	251698	194700	29.71	238864	188685	31.80		
		76	63	294049	233885	21.84	280286	227435	24.27	265053	220282	26.93	250251	213678	28.47	244171	210719	29.49	231723	204639	31.59		
		80.6	66.2	311198	270290	22.21	296572	263840	24.70	280477	256750	27.38	264854	250508	28.89	258421	247549	29.91	245265	241598	31.99		
		82	69	327516	240496	22.57	311869	234077	25.08	294688	226988	27.78	278042	220561	29.27	271255	217634	30.29	257327	211684	32.37		
		82	67	313433	266203	22.26	298552	259688	24.75	282138	252503	27.43	266205	246133	28.93	259675	243174	29.95	246358	237127	32.03		
		82	65	308611	275080	22.16	293985	268534	24.63	277827	261317	27.30	262152	255011	28.81	255719	252020	29.82	242563	240523	31.91		
		82	63	298839	293347	21.95	284693	281523	24.39	269045	264125	27.04	253853	249586	28.57	248288	243568	29.60	235776	231052	31.71		
		80	69	324930	228169	22.51	309410	221719	25.02	292357	214629	27.72	275855	208113	29.22	269100	205186	30.23	255301	199235	32.30		
		80	67	311773	252343	22.22	296955	245861	24.71	280637	238676	27.38	264790	232205	28.89	258292	229246	29.90	245007	223199	31.99		
		80	65	305769	263520	22.10	291239	256974	24.56	275272	249757	27.23	259707	243335	28.73	253338	240343	29.76	240311	234264	31.85		
		80	63	296604	280797	21.90	282553	274186	24.34	267033	266937	26.99	251955	246253	28.51	245747	233658	29.53	233106	231053	31.62		
	10000	78	69	326686	202462	22.55	311070	196970	25.06	293890	190098	27.76	277270	185629	29.25	270451	183185	30.27	256587	177974	32.35		
		78	67	313242	231714	22.26	298328	225231	24.74	281914	218078	27.42	265980	211458	28.92	259482	208499	29.94	246133	202484	32.02		
		78	65	307717	242029	22.14	293091	235482	24.61	276965	228297	27.28	261348	221752	28.78	254915	218792	29.80	241823	212713	31.88		
		78	63	297849	260646	21.93	283735	254068	24.37	268151	246787	27.02	252985	240311	28.54	246777	237288	29.56	234071	231176	31.65		
		76	69	326143	180619	22.54	310495	175127	25.05	293347	169187	27.75	276723	163660	29.24	269904	161248	30.26	256040	156326	32.33		
		76	67	312475	212809	22.24	297594	207220	24.72	281212	201153	27.40	265304	195118	28.90	258807	192159	29.92	245490	186144	32.00		
		76	65	307366	224848	22.13	292740	218525	24.60	276645	211340	27.27	261026	204671	28.77	254593	201680	29.79	241501	195633	31.87		
		76	63	298233	242348	21.93	284086	235801	24.38	268470	228552	27.03	253306	221945	28.55	247066	218921	29.57	234361	212809	31.66		
		80.6	66.2	315477	281499	22.30	300500	274985	24.80	283958	267799	27.48	267942	261573	28.98	261380	258614	30.00	247967	231523	32.08		

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW (Compressor + Condenser Motor + Blower Motor)
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

ELECTRICAL DATA

Cool Mode

COOL MODE															
MODEL	UNIT POWER SUPPLY		COMPRESSOR				CONDENSER MOTOR				BLOWER MOTOR			MCA	MOCP
	V-Ph-Hz	MIN VOLT	TYPE	RLA	LRA	QTY	V-Ph-Hz	HP (KW)	FLA	QTY	V-Ph-Hz	HP (KW)	FLA	AMPS	AMPS
HY3RTHU048GC1	415-3-50	390	SCR	8.3	64	1	240-1-50	0.75 (0.6)	5.7	1	240-1-50	0.75 (0.6)	6.0	23	35
HY3RTHU060GC1	415-3-50	390	SCR	9.1	74	1	240-1-50	0.75 (0.6)	5.7	1	240-1-50	1 (0.75)	7.6	25	35
HY3RTHU072GC1	415-3-50	390	SCR	11.0	100	1	240-1-50	0.75 (0.6)	5.7	1	415-3-50	1.3 (1.0)	2.7	23	35
HY3RTHU080GC1	415-3-50	390	SCR	14.3	128	1	240-1-50	0.75 (0.6)	5.7	1	415-3-50	1.3 (1.0)	2.7	27	45
HY3RTHU090GC1	415-3-50	390	SCR	16.6	118	1	240-1-50	0.75 (0.6)	5.7	1	415-3-50	1.3 (1.0)	2.7	30	50
HY3RTHU120GC2	415-3-50	390	SCR	9.1	74	2	240-1-50	0.5 (0.4)	3.0	2	415-3-50	2.6 (0.9)	5.0	23	35
HY3RTHU150GC2	415-3-50	390	SCR	11.7	101	2	240-1-50	0.75 (0.6)	5.7	2	415-3-50	2.6 (0.9)	5.0	43	55
HY3RTHU180GC2	415-3-50	390	SCR	14.3	128	2	240-1-50	0.75 (0.6)	5.7	2	415-3-50	2.6 (0.9)	5.0	49	65
HY3RTHU210GC2	415-3-50	390	SCR	16.6	139	2	415-3-50	1.5 (1.1)	3.0	2	415-3-50	5 (3.7)	7.3	51	70
HY3RTHU240GC2	415-3-50	390	SCR	18.3	118	2	240-1-50	0.75 (0.6)	5.7	4	415-3-50	5 (3.7)	7.3	72	90
HY3RTHU270GC2	415-3-50	390	SCR	20.8	140	2	240-1-50	0.75 (0.6)	5.7	4	415-3-50	5 (3.7)	7.3	77	100
HY3RTHU300GC2	415-3-50	390	SCR	26.3	174	2	240-1-50	0.75 (0.6)	5.7	4	415-3-50	7.5 (5.5)	10.5	93	120

Electric Heater Mode

ELECTRIC HEATER MODE									
MODEL	UNIT POWER SUPPLY		BLOWER MOTOR			HEATER		MCA	MOCP
	V-Ph-Hz	MIN VOLT	V-Ph-Hz	HP (KW)	FLA	KW	AMPS	AMPS	AMPS
HY3RTHU048GE1	415-3-50	390	240-1-50	0.75 (0.6)	6.0	5	7.6	15	20
						7	10.6	20	25
HY3RTHU060GE1	415-3-50	390	240-1-50	1 (0.75)	7.6	5	7.6	17	25
						7	10.6	21	30
						10	15.2	27	35
HY3RTHU072GE1	415-3-50	390	415-3-50	1.3 (1.0)	2.7	10	15.2	22	25
						12	18.2	26	30
HY3RTHU080GE1	415-3-50	390	415-3-50	1.3 (1.0)	2.7	10	15.2	22	25
						12	18.2	26	30
HY3RTHU090GE1	415-3-50	390	415-3-50	1.3 (1.0)	2.7	10	15.2	22	25
						12	18.2	26	30
						14	21.2	30	35
						15	22.8	32	35
HY3RTHU120GE2	415-3-50	390	415-3-50	2.6 (0.9)	5.0	10	15.2	24	30
						14	21.2	32	35
						15	22.8	34	40
						17	25.8	38	45
						20	30.4	43	50
HY3RTHU150GE2	415-3-50	390	415-3-50	2.6 (0.9)	5.0	15	22.8	34	40
						17	25.8	38	45
						20	30.4	43	50
						22	33.4	47	50
						25	38	53	60
HY3RTHU180GE2	415-3-50	390	415-3-50	2.6 (0.9)	5.0	15	22.8	34	40
						17	25.8	38	45
						20	30.4	43	50
						22	33.4	47	50
						25	38	53	60
HY3RTHU210GE2	415-3-50	390	415-3-50	5 (3.7)	7.3	20	30.4	45	50
						22	33.4	50	55
						25	38	55	60
						30	45.6	65	70
						35	53.2	74	80
HY3RTHU240GE2	415-3-50	390	415-3-50	5 (3.7)	7.3	25	38	55	60
						30	45.6	65	70
						35	53.2	74	80
						40	60.8	84	90
HY3RTHU270GE2	415-3-50	390	415-3-50	5 (3.7)	7.3	25	38	55	60
						30	45.6	65	70
						35	53.2	74	80
						40	60.8	84	90
HY3RTHU300GE2	415-3-50	390	415-3-50	7.5 (5.5)	10.5	30	45.6	68	80
						35	53.2	77	85
						40	60.8	87	95
						45	68.4	96	105
						50	76	105	115

Note:
SCR: Scroll
RLA: Running Load Amps
LRA: Locked Rotor Amps
FLA: Full Load Amps

MCA: Minimum Circuit Amps
MOCP: Maximum Over Currect Protection
QTY: Quantity

FAN PERFORMANCE DATA

048K - 180K

Fan Perfromance - Direct Drive Blower Motor Assembly

Model	Speed Tap	External Sta c Pressure (in.wg,)										
		0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
HY3RTHU048GC1	2	1694	1671	1650	1605	1565	-	-	-	-	-	-
	3	1441	1420	1400	1354	1311	-	-	-	-	-	-
HY3RTHU060GC1	1	2018	1984	1950	1886	1824	-	-	-	-	-	-
	2	1754	1702	1650	1616	1552	-	-	-	-	-	-

Fan Perfromance - Belt Drive Blower Motor Assembly

MODEL : HY3RTHU072GC1														
ESP(inch of WG)	0.2		0.25		0.4		0.6		0.8		1.0		1.2	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2100	641	0.30	643	0.30	729	0.37	810	0.44	887	0.51	962	0.60	1035	0.69
2200	644	0.31	646	0.32	731	0.38	811	0.45	887	0.53	960	0.61	1031	0.70
2300	647	0.33	649	0.33	733	0.40	811	0.47	886	0.55	958	0.63	1027	0.72
2400	653	0.35	655	0.35	737	0.43	814	0.50	887	0.58	957	0.67	1025	0.75

MODEL : HY3RTHU080GC1														
ESP(inch of WG)	0.2		0.25		0.4		0.6		0.8		1.0		1.2	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2300	646	0.32	668	0.34	732	0.39	811	0.46	886	0.54	959	0.62	1028	0.71
2500	670	0.48	687	0.51	739	0.57	797	0.64	872	0.68	948	0.70	1010	0.79
2650	672	0.50	689	0.52	739	0.58	796	0.66	866	0.74	932	0.74	992	0.88
2750	673	0.51	690	0.53	740	0.59	795	0.67	852	0.77	924	0.77	980	0.92

MODEL : HY3RTHU090GC1														
ESP(inch of WG)	0.2		0.25		0.4		0.6		0.8		1.0		1.2	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2600	525	0.31	526	0.32	603	0.40	676	0.5	743	0.61	-	-	-	-
2800	528	0.34	530	0.34	604	0.44	672	0.53	740	0.64	-	-	-	-
3000	533	0.38	535	0.38	607	0.48	674	0.58	739	0.69	801	0.81	858	0.94

MODEL : HY3RTHU120GC2																
ESP(inch of WG)	0.2		0.30		0.4		0.6		0.8		1.0		1.2		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
3500	548	0.50	582	0.55	617	0.60	681	0.71	741	0.82	798	0.94	854	1.07	911	1.20
3600	551	0.52	585	0.57	619	0.62	682	0.73	742	0.85	798	0.97	853	1.1	909	1.23
3800	558	0.57	592	0.63	625	0.68	687	0.8	745	0.92	800	1.05	853	1.18	908	1.31
4000	565	0.63	598	0.69	631	0.74	692	0.86	749	0.99	803	1.11	855	1.25	908	1.38

MODEL : HY3RTHU150GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
4400	581	0.76	644	0.88	703	1.01	758	1.14	810	1.28	860	1.42	908	1.56	955	1.71
4600	590	0.84	651	0.96	709	1.09	764	1.23	815	1.37	864	1.51	911	1.66	957	1.81
4800	599	0.92	659	1.05	716	1.18	770	1.33	821	1.47	869	1.61	915	1.77	960	1.92
5000	608	1.00	667	1.14	723	1.27	776	1.42	826	1.56	873	1.71	919	1.87	963	2.02

MODEL : HY3RTHU180GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
5200	617	1.08	675	1.23	730	1.36	782	1.51	831	1.65	877	1.81	923	1.97	966	2.12
5400	626	1.16	682	1.31	736	1.44	788	1.61	837	1.75	882	1.90	926	2.08	968	2.23
5600	635	1.24	690	1.40	743	1.53	794	1.70	842	1.84	886	2.00	930	2.18	971	2.33
5800	644	1.32	698	1.49	750	1.62	800	1.79	847	1.93	890	2.10	934	2.28	974	2.43
6000	653	1.40	705	1.57	756	1.70	806	1.89	853	2.03	895	2.19	937	2.39	976	2.54

Notes:
- Data includes losses for filters, unit casting & wet coil
- Shaded region indicates alternate drive requirement
- Blue value in RPM indicates Blower speed with factory settings

FAN PERFORMANCE DATA

210K - 300K

MODEL : HY3RTHU210GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
6300	564	0.89	637	1.10	710	1.32	775	1.56	839	1.82	901	2.10	961	2.405	1021	2.73
6400	565	0.91	641	1.12	710	1.35	775	1.59	838	1.85	899	2.12	959	2.43	1018	2.75
6600	568	0.96	643	1.17	711	1.40	776	1.64	838	1.90	898	2.18	956	2.48	1014	2.80
6800	572	1.01	646	1.23	713	1.46	777	1.71	838	1.97	897	2.25	954	2.54	1011	2.86
6900	573	1.04	647	1.25	714	1.49	778	1.74	838	2.00	897	2.28	953	2.57	1009	2.89
7000	575	1.06	648	1.28	715	1.52	778	1.77	838	2.03	896	2.31	952	2.60	1007	2.92

MODEL : HY3RTHU240GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
7000	575	1.06	648	1.28	715	1.52	778	1.77	838	2.03	896	2.31	952	2.6	1007	2.92
7200	578	1.11	650	1.34	717	1.58	779	1.83	838	2.10	895	2.38	951	2.67	1005	2.98
7400	582	1.17	653	1.40	719	1.64	780	1.90	839	2.17	895	2.45	950	2.74	1003	3.06
7500	584	1.20	655	1.43	720	1.68	781	1.94	840	2.21	896	2.49	950	2.78	1003	3.10
7600	586	1.23	656	1.47	721	1.72	782	1.98	840	2.25	896		950	2.83	1002	3.14
7800	589	1.29	659	1.53	724	1.78	784	2.04	841	2.32	896	2.60	950	2.90	1001	3.21
8000	593	1.35	662	1.60	726	1.85	786	2.12	843	2.40	897	2.68	950	2.98	1001	3.30

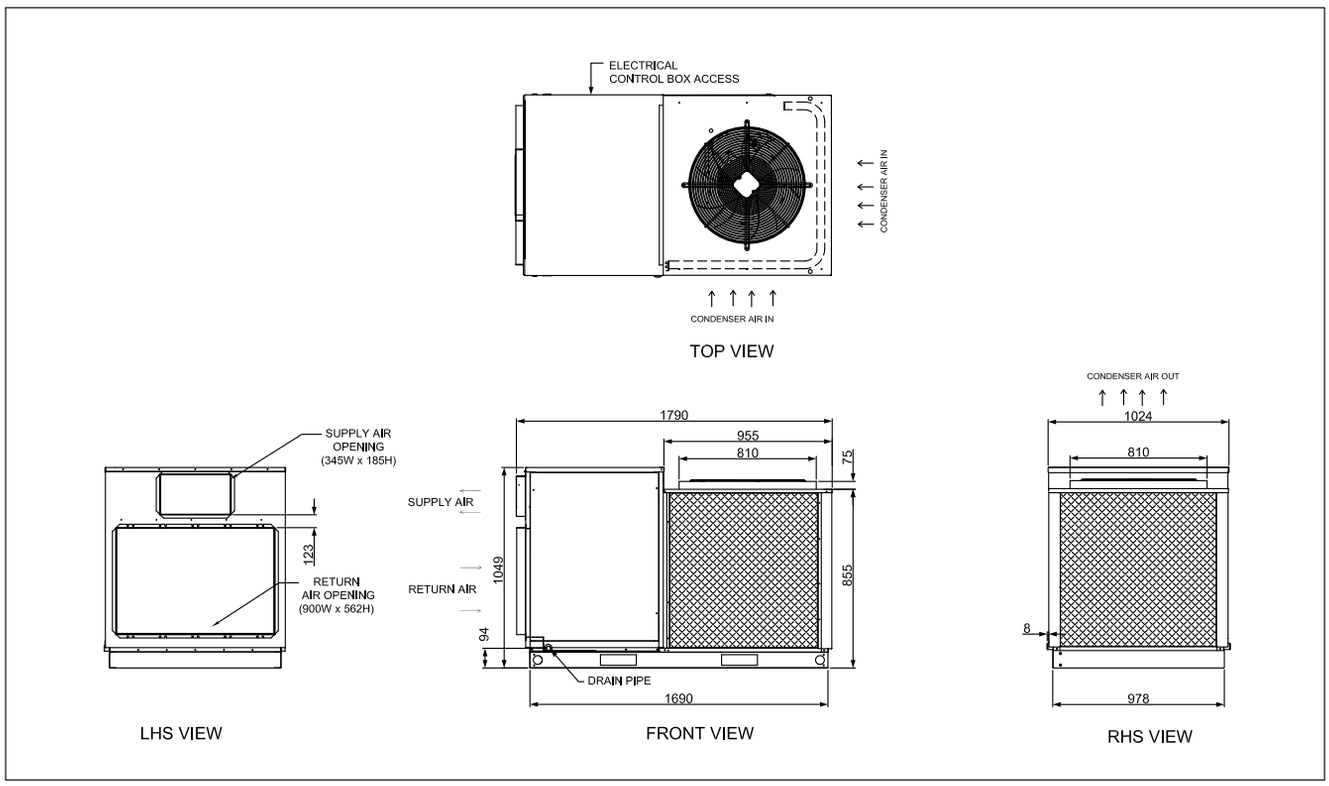
MODEL : HY3RTHU270GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
8200	597	1.42	666	1.67	729	1.93	788	2.20	845	2.48	899	2.77	951	3.07	1001	3.39
8400	601	1.49	669	1.74	732	2.01	791	2.28	847	2.56	900	2.86	951	3.16	1001	3.48
8600	605	1.56	673	1.82	735	2.09	793	2.37	849	2.65	902	2.95	953	3.26	1002	3.58
8800	610	1.64	676	1.90	738	2.17	796	2.45	851	2.74	903	3.04	954	3.35	1003	3.68
9000	614	1.72	680	1.98	740	2.26	799	2.55	853	2.84	905	3.14	955	3.46	1004	3.78

MODEL : HY3RTHU300GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
9200	619	1.80	684	2.07	745	2.35	802	2.64	856	2.94	907	3.24	957	3.56	1005	3.89
9400	624	1.89	688	2.16	749	2.45	805	2.74	859	3.04	910	3.35	959	3.67	1007	4.00
9600	629	1.97	692	2.25	752	2.54	808	2.84	861	3.14	912	3.46	961	3.78	1008	4.11
9800	634	2.06	696	2.34	755	2.64	811	2.94	864	3.25	914	3.57	963	3.90	1010	4.23
10000	639	2.15	701	2.44	759	2.74	814	3.05	867	3.36	917	3.68	965	4.01	1012	4.35

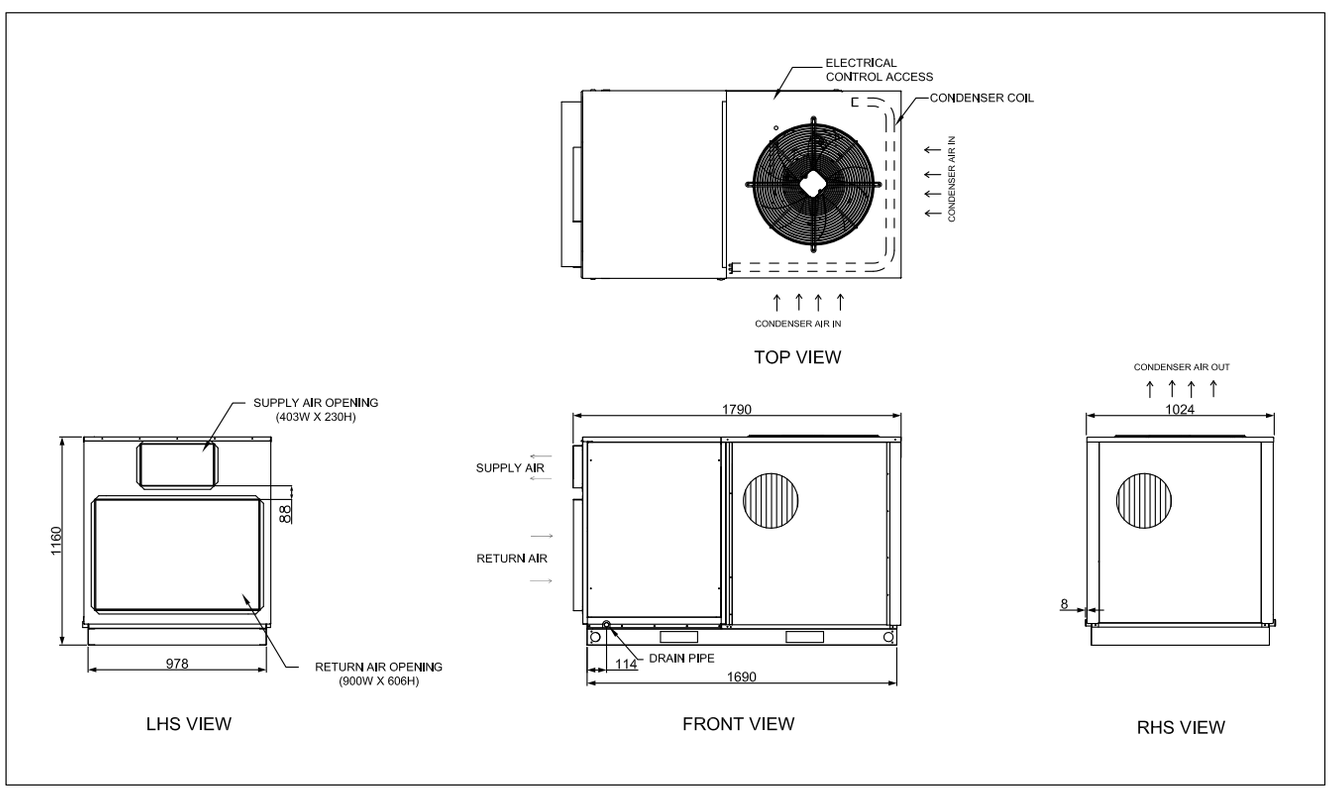
Notes:
- Data includes losses for filters, unit casting & wet coil
- Shaded region indicates alternate drive requirement
- Blue value in RPM indicates Blower speed with factory settings

GENERAL ARRANGEMENT DRAWINGS

048K - 060K

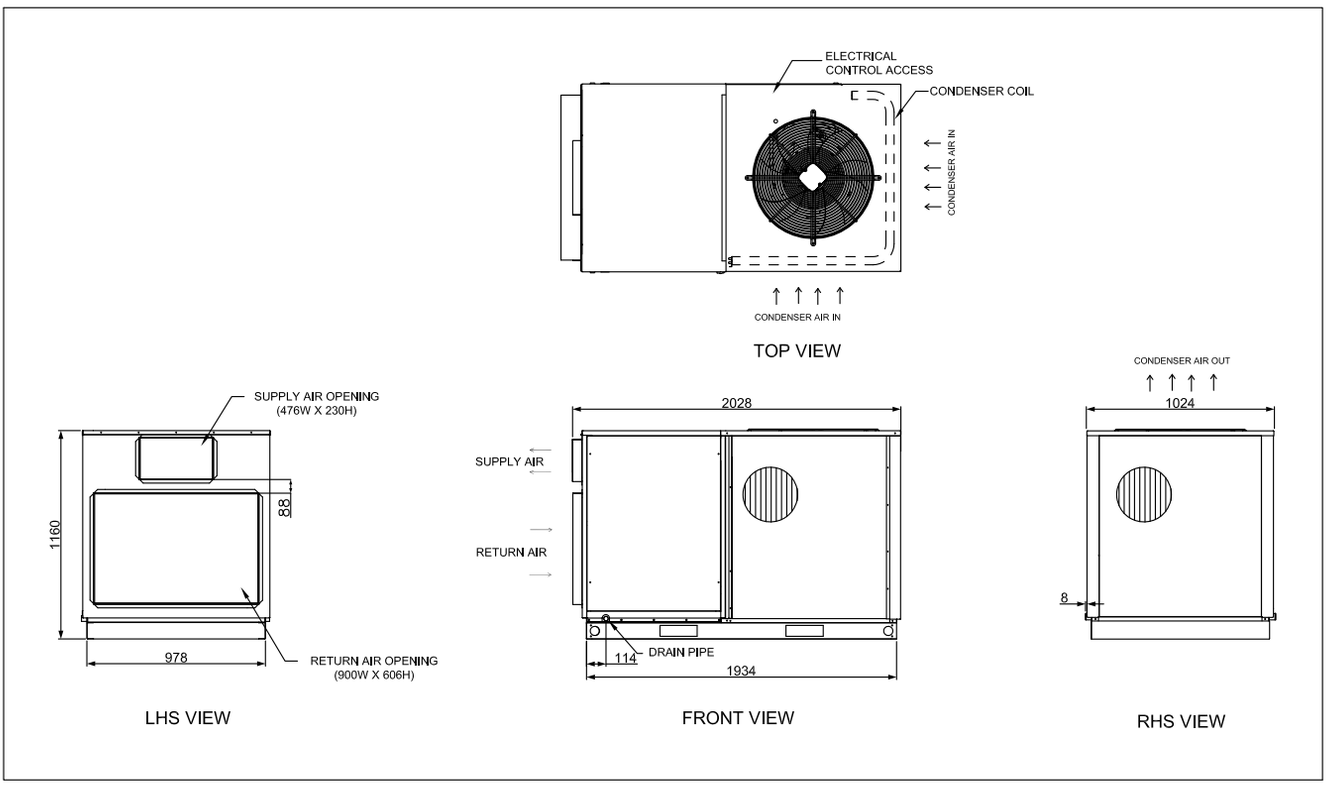


072K

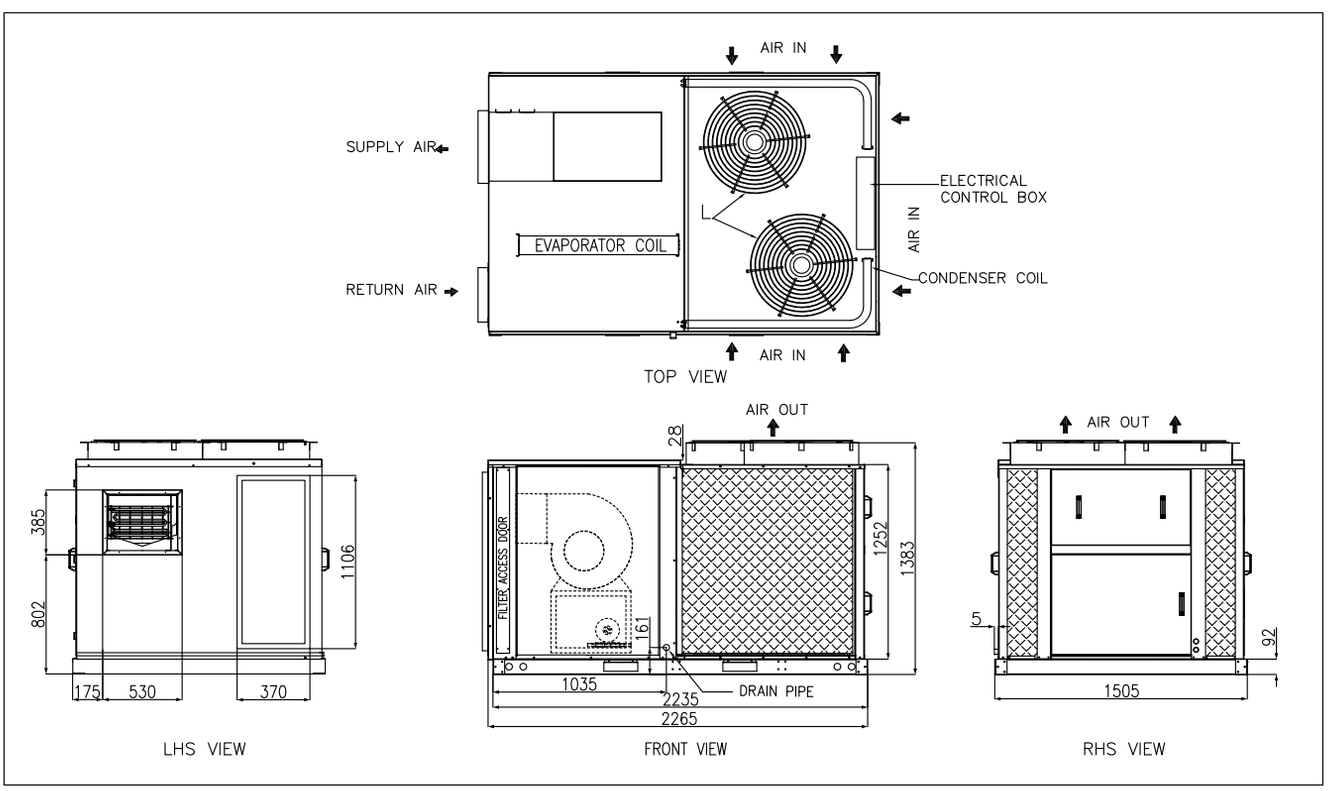


GENERAL ARRANGEMENT DRAWINGS

080K - 090K

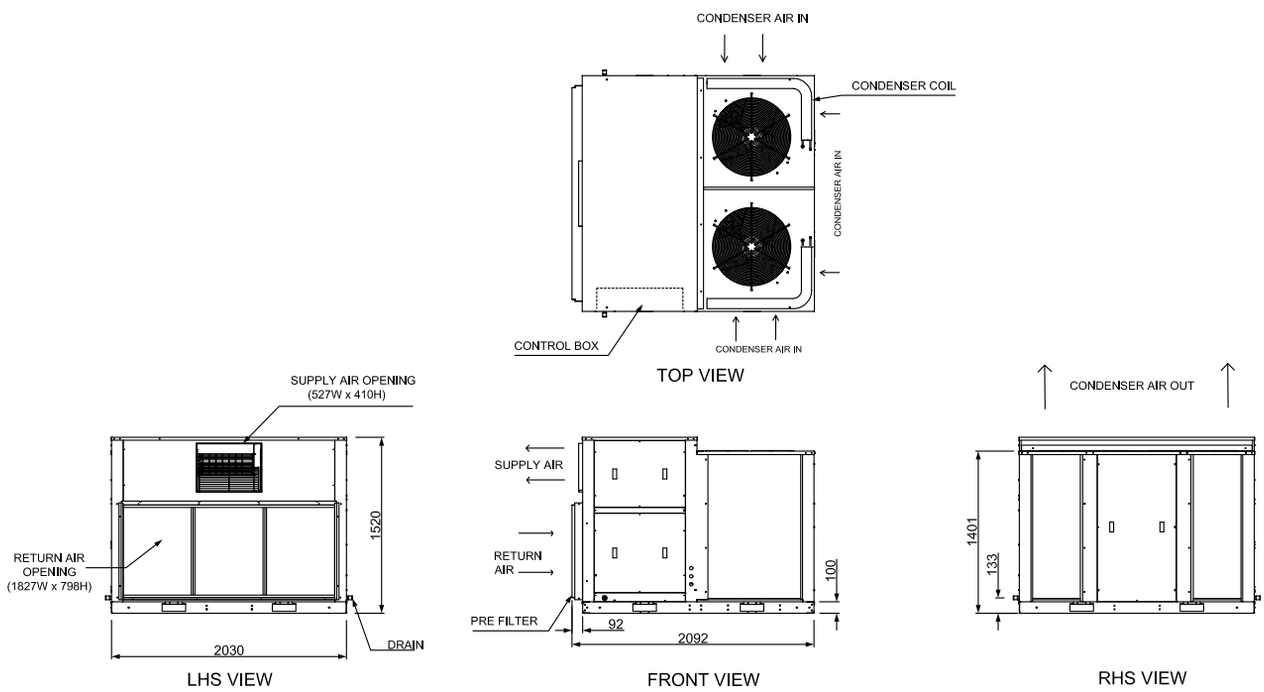


120K

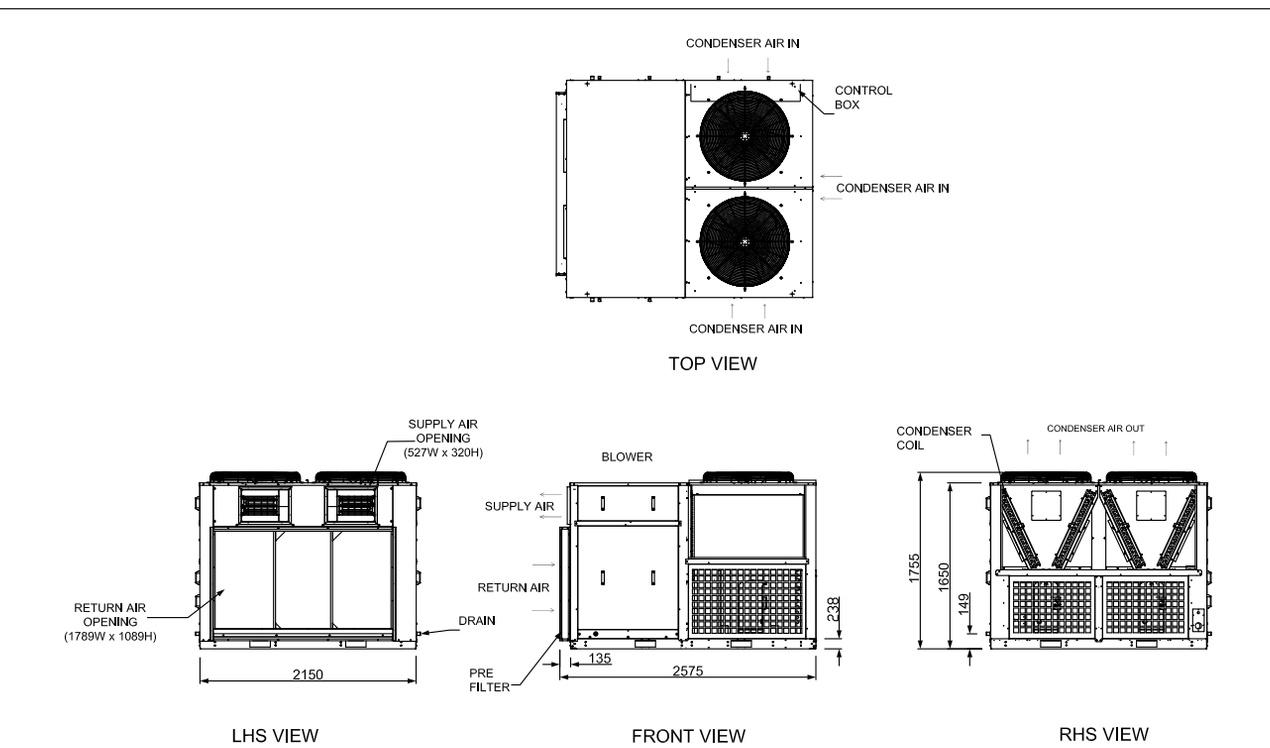


GENERAL ARRANGEMENT DRAWINGS

150K - 180K

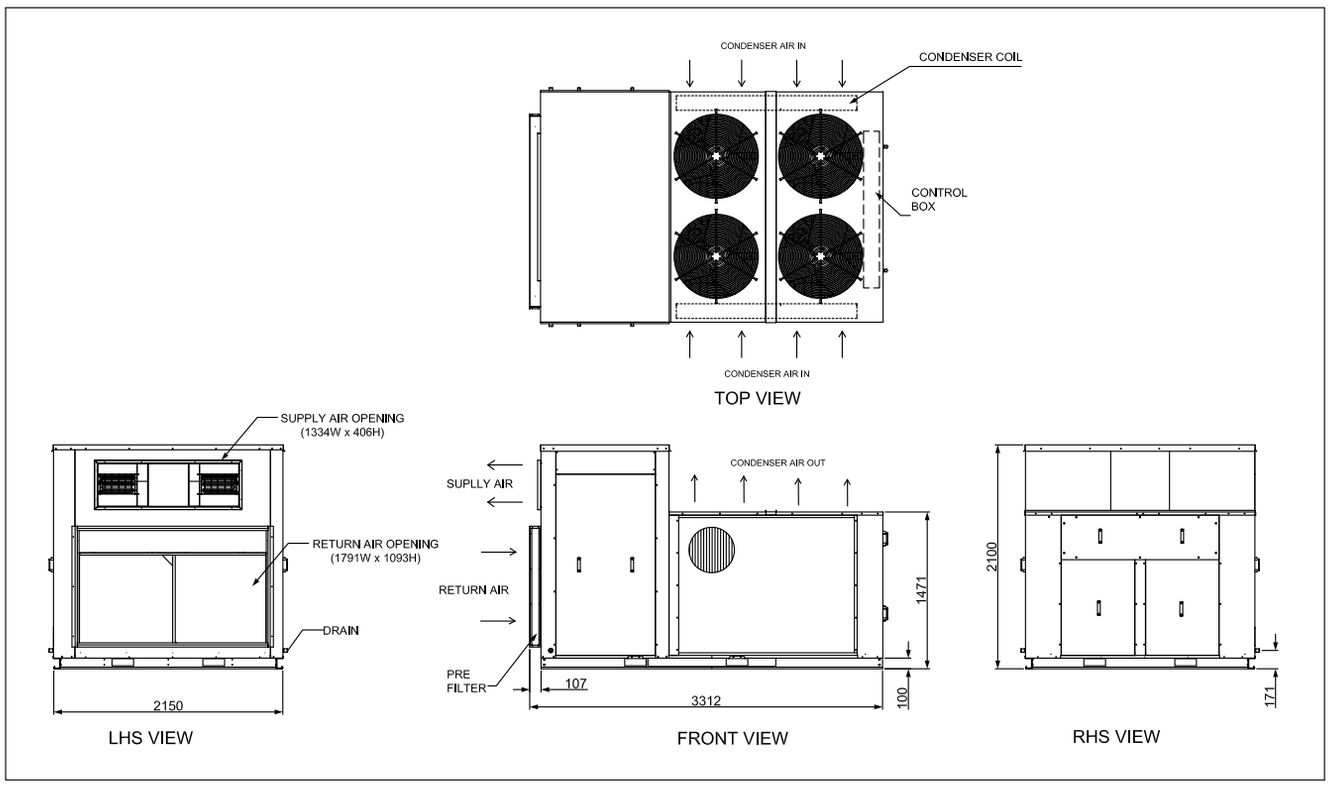


210K



GENERAL ARRANGEMENT DRAWINGS

240K - 270K - 300K



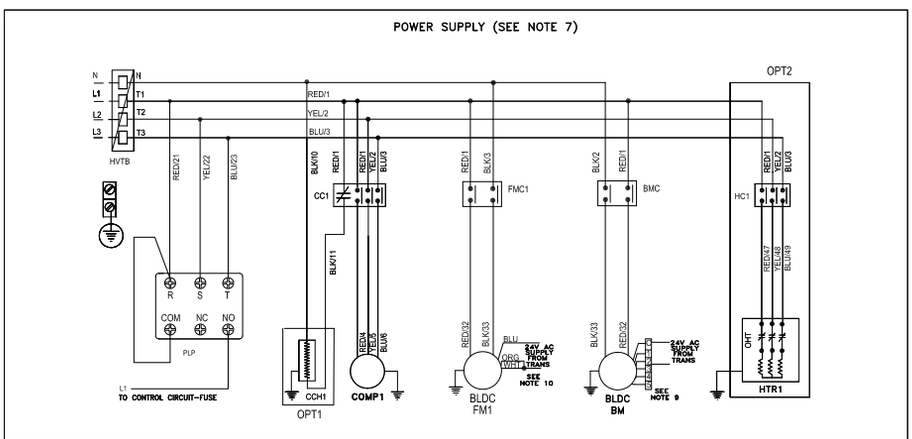
WIRING DIAGRAM

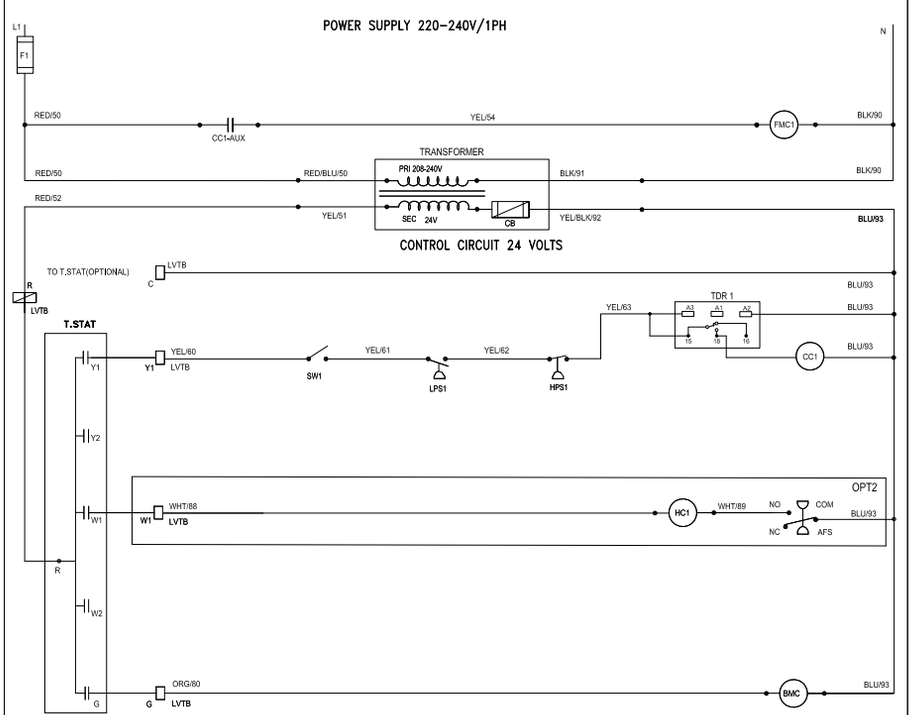
048K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380–415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60°F WILL MAKE WARRANTY NULL & VOID.





LEGEND

AFS	- AIR FLOW SWITCH
BC	- BLOWER CAPACITOR
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMP CONTACTOR
CCH	- CRANK CASE HEATER
CB	- CIRCUIT BREAKER
COMP	- COMPRESSOR
F	- FUSE
FC	- FAN CAPACITOR
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
FMR	- FAN MOTOR RELAY
HC	- HEATER CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON / OFF
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT FOR 208-230 V/3PH/60HZ

7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ, 380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) SPEED TAP SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET) - SPEED 2 FOR 4TR. UNITS

10) WIRE COLOR SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER
OPT. 2 - SINGLE STAGE HEATING

WIR DIA RTH 1C 1FMDC 1BM1P 970RPM		
C241377	1BC011Q93	00

WIRING DIAGRAM

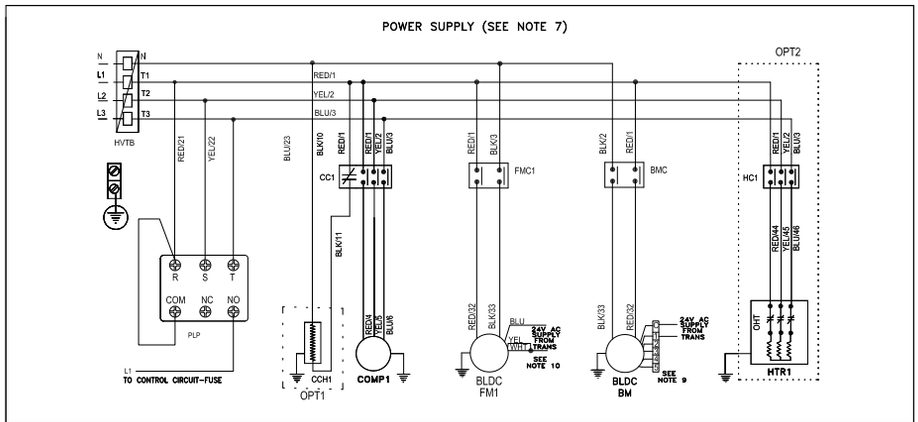
060K

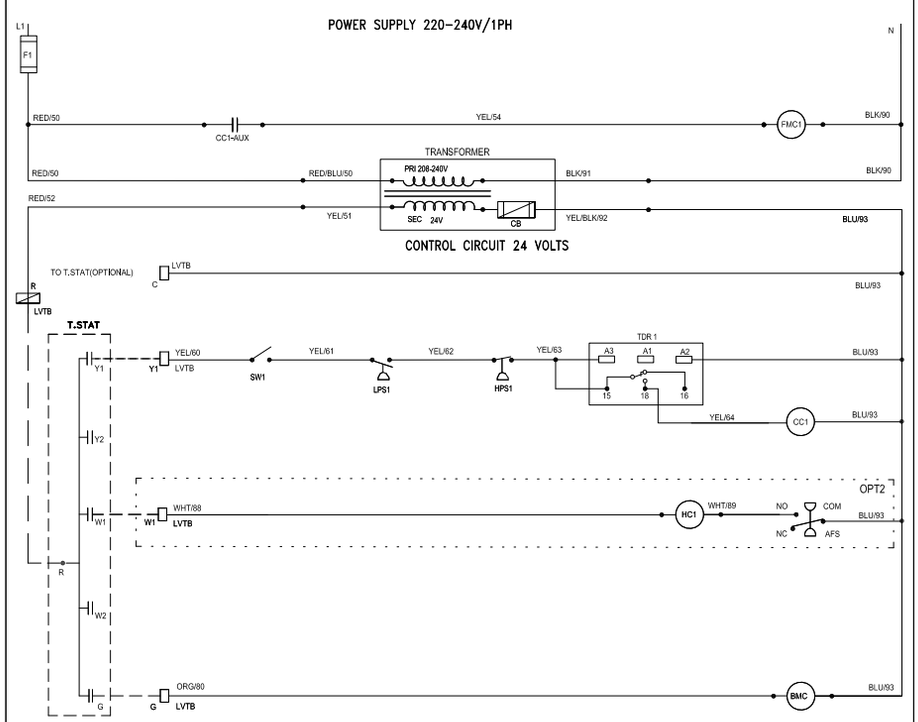
POWER SUPPLY
THIS WIRING DIAGRAM SUITS

380–415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60°F WILL MAKE WARRANTY NULL & VOID.





LEGEND

AFS	- AIR FLOW SWITCH
BC	- BLOWER CAPACITOR
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMP CONTACTOR
CCH	- CRANK CASE HEATER
CB	- CIRCUIT BREAKER
COMP	- COMPRESSOR
F	- FUSE
FC	- FAN CAPACITOR
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
FMR	- FAN MOTOR RELAY
HC	- HEATER CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON / OFF
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT FOR 208-230 V/3PH/60HZ

7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ, 380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) SPEED TAP SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET) - SPEED 1 FOR STR. UNITS

10) WIRE COLOR SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET)

OPTIONS

OPT. 1 - CRANK CASE HEATER
OPT. 2 - SINGLE STAGE HEATING

WIR DIA RTH 1C 1FMDC 1BM1P 800RPM		
C241343	1BC011Q64	00

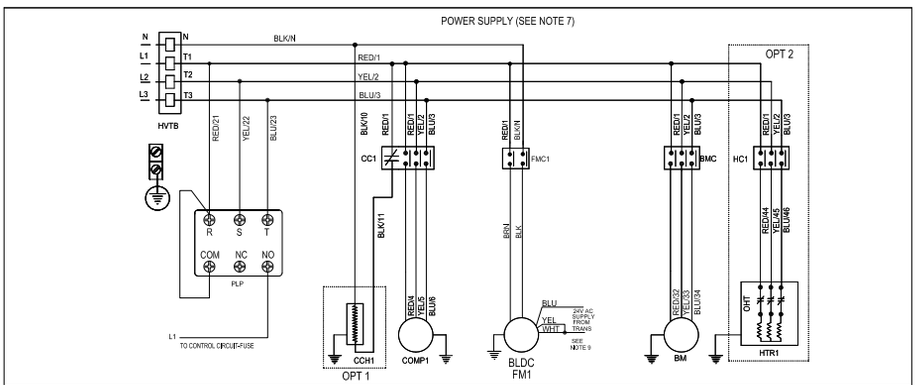
WIRING DIAGRAM

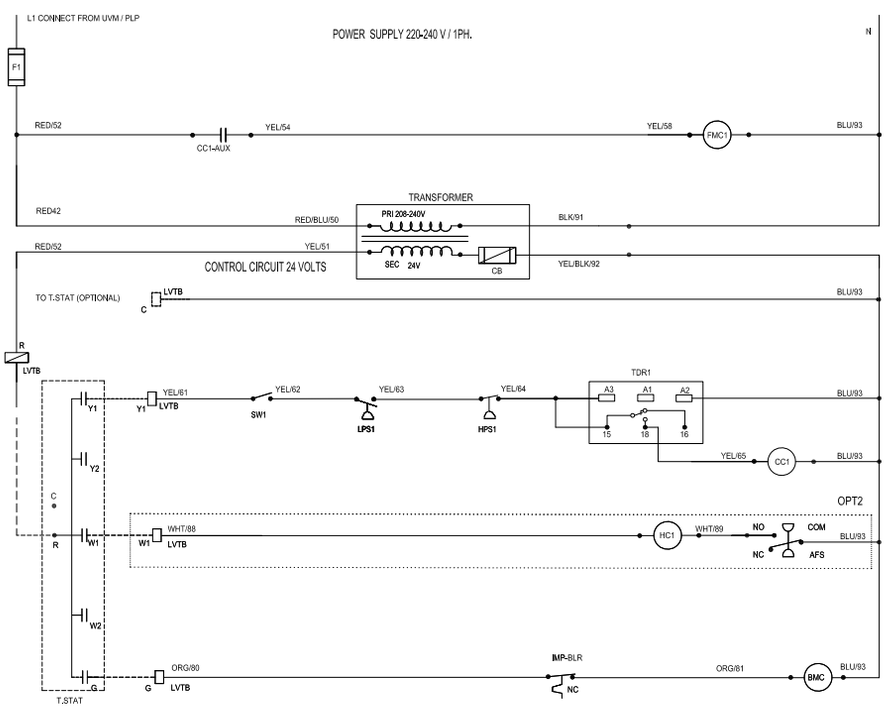
072K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
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LEGEND

AFS	- AIR FLOW SWITCH
AUX	- AUXILIARY
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMP CONTACTOR
CCH	- CRANK CASE HEATER
CB	- CIRCUIT BREAKER
COMP	- COMPRESSOR
F	- FUSE
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HC	- HEATER CONTACTOR
HM	- HOUR METER
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SSPS	- SOLID STATE PROTECTION SYS.
SW	- SWITCH ON/ OFF
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT FOR 208-230/3PH/60HZ
7) POWER CIRCUIT FOR
380-415 V/3PH /50HZ,
380/400 V/3PH/60Hz
460 V/3PH/60HZ WITH NEUTRAL
8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS
9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER
OPT. 2 - SINGLE STAGE HEATING

WIR DIA RTH 1C3P 1FMBLDC 1BM3P 800RPM

C241344	1BCO11Q65	00

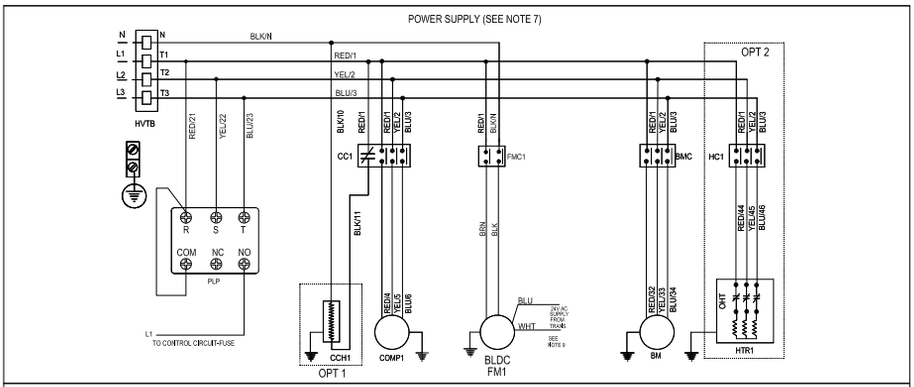
WIRING DIAGRAM

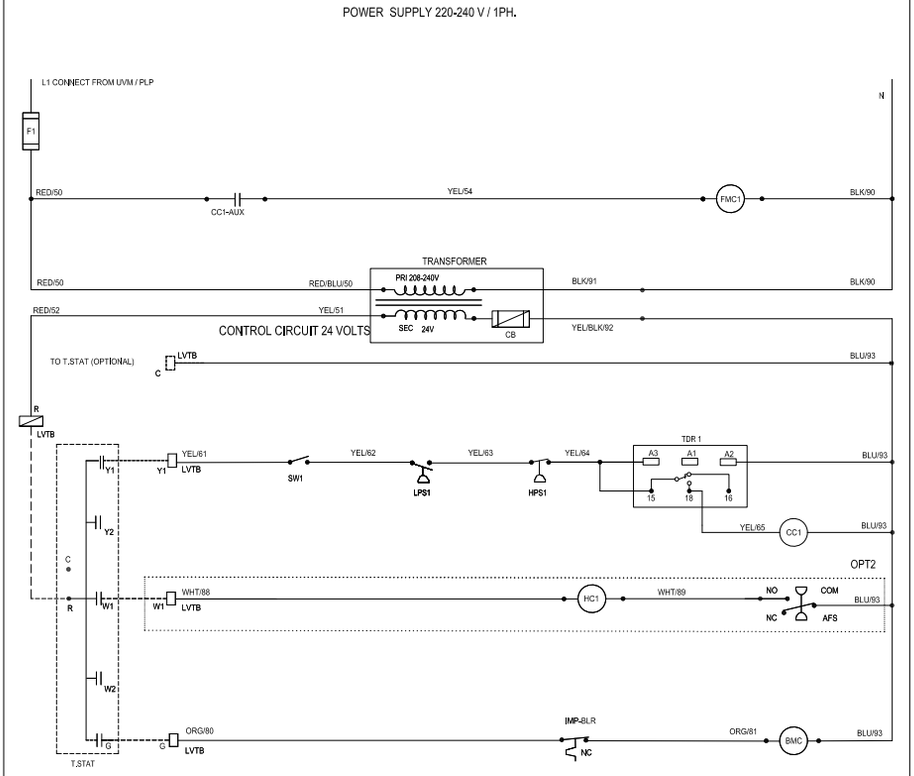
080K - 090K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

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LEGEND

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FMC	- FAN MOTOR CONTACTOR
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LPS	- LOW PRESSURE SWITCH
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OHT	- OVER HEAT THERMOSTAT
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
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T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT FOR 208-230/3PH/60HZ
7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ, 380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL
8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS
9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

OPTIONS

OPT. 1 - CRANK CASE HEATER
OPT. 2 - SINGLE STAGE HEATING

WIR DIA RTH 1C3P 1FMBLDC 1BM3P 1060RPM

C241347	1BCO11Q68	00

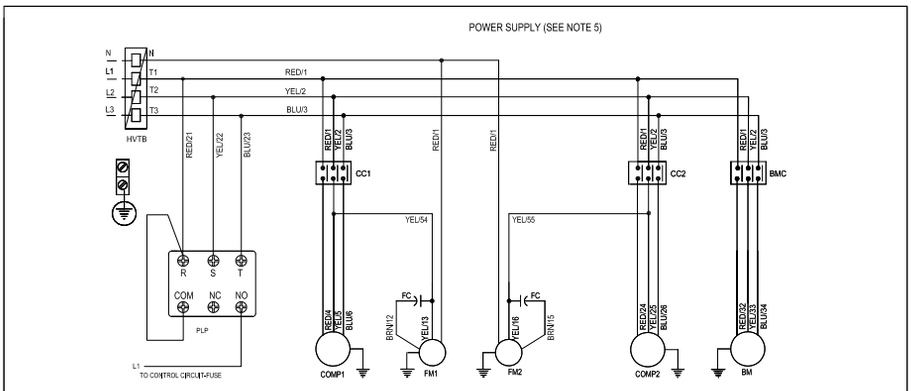
WIRING DIAGRAM

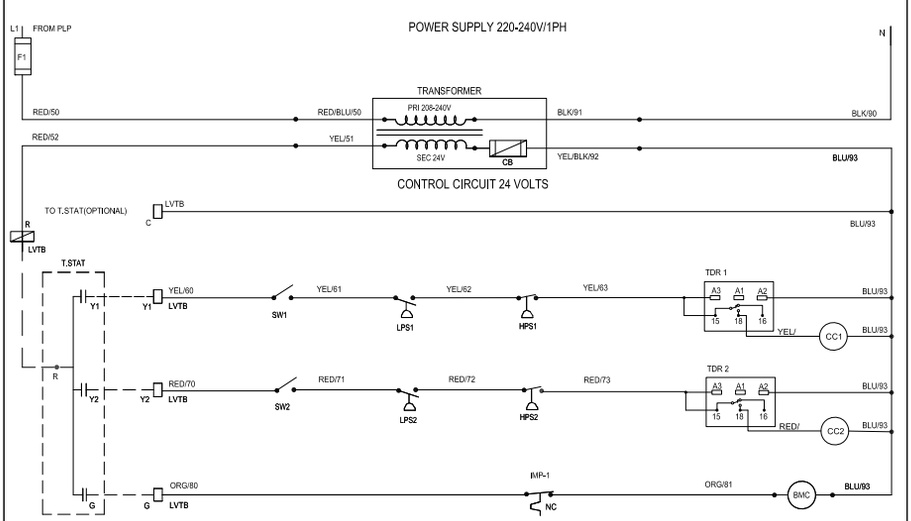
120K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60 F WILL MAKE WARRANTY NULL & VOID.





LEGEND

BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMPRESSOR CONTACTOR
F	- FUSE
FC	- FAN CAPACITOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LNE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSE
NO	- NORMALLY OPEN
PLP	- PHASE LOSS PROTECTOR
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
YEL	- YELLOW
--------	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUIVALENT AND COPPER CONDUCTOR ONLY.
2) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
3) COMPRESSOR IS PROVIDED WITH NEUTRAL OVERLOAD PROTECTION INTERNAL OVERLOAD PROTECTION
4) POWER CIRCUIT FOR 208-230V/3PH/60HZ
5) POWER CIRCUIT FOR
   380-415 V/3PH/50HZ,
   380/400V/3PH/60HZ
   460V/3PH/60HZ WITH NEUTRAL
6) REFER INSTRUCTION WITH THE COMPONENTS FOR STAR/DELATA CONNECTIONS

WIR. DIA-RTP-2 - FM1P-1BM3P

C241367	1BCO11Q82	00

WIRING DIAGRAM

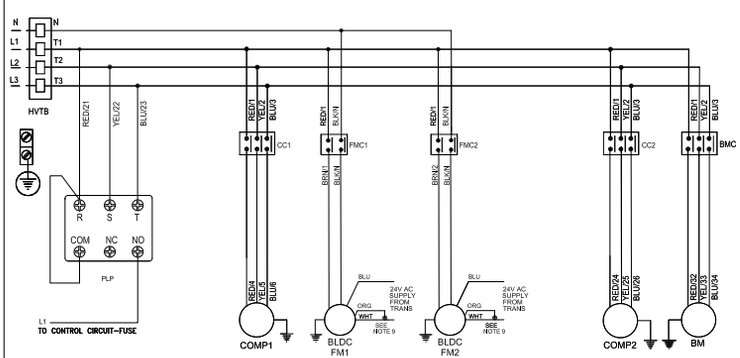
150K - 180K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

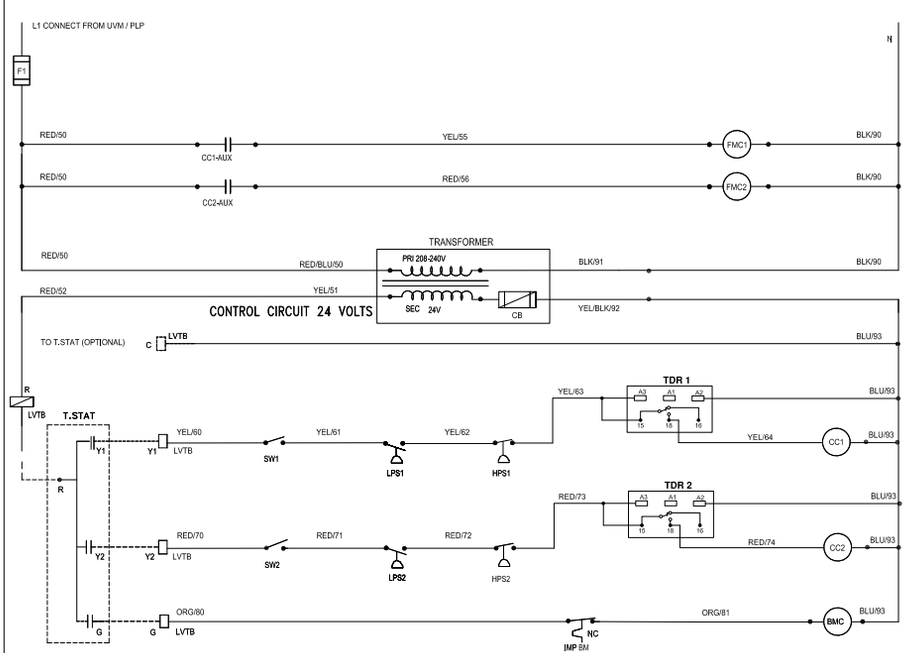
WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60°F WILL MAKE WARRANTY NULL & VOID.

POWER SUPPLY (SEE NOTE 7)



POWER SUPPLY 220-240 V / 1PH.



LEGEND

AUX	- AUXILIARY
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMP CONTACTOR
CB	- CIRCUIT BREAKER
COMP	- COMPRESSOR
F	- FUSE
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/ OFF
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
YEL	- YELLOW
— —	- FIELD WIRING
	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY. COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP.. IF THE POWER SUPPLY HAS BEEN INTERRUPTED POWER SUPPLY FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR, BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION. INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT FOR
208-230/3PH/60HZ

7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ, 380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

WIR.DIA.RTH.2C 3FMBLDC 1BM3P 970RPM

C241373	1BC011Q89	00

WIRING DIAGRAM

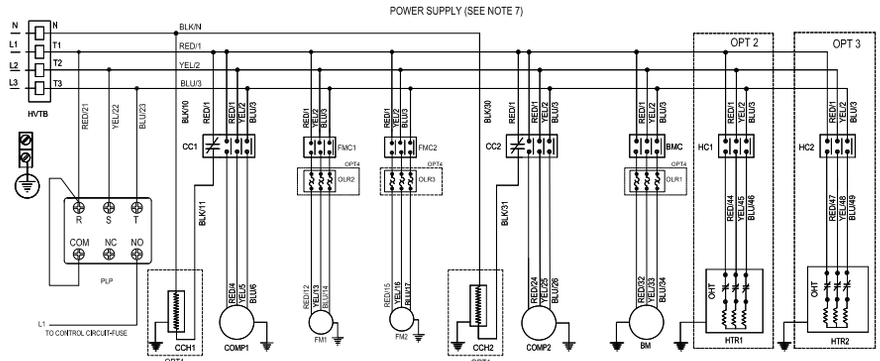
210K

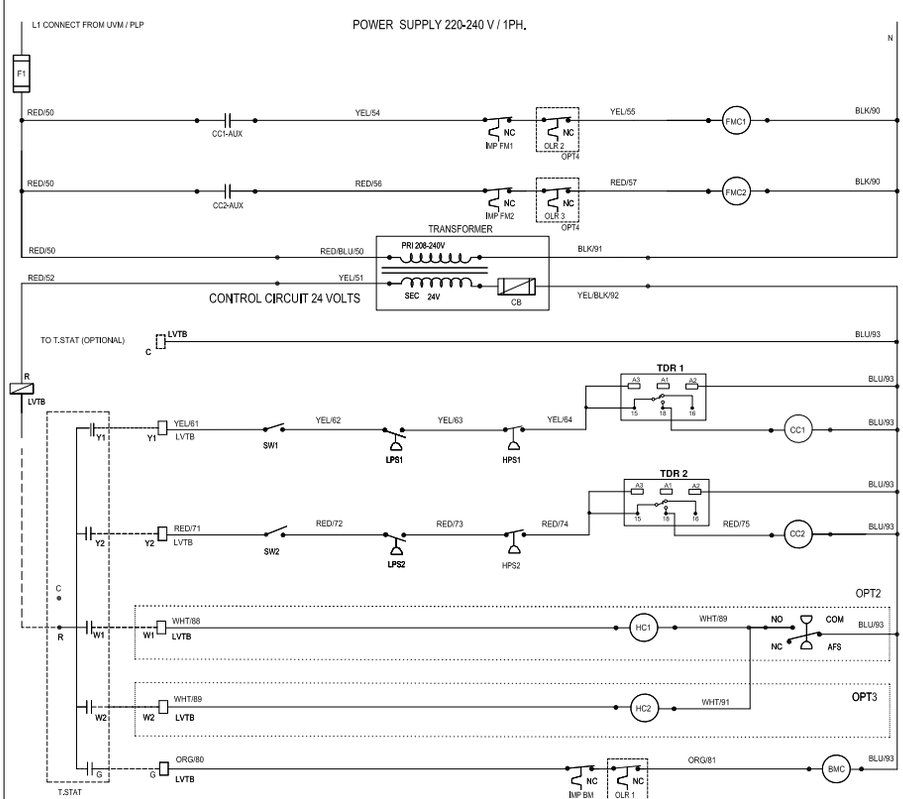
POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL

PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
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LEGEND

AFS	- AIR FLOW SWITCH
AUX	- AUXILIARY
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMP CONTACTOR
CCH	- CRANK CASE HEATER
CB	- CIRCUIT BREAKER
COMP	- COMPRESSOR
F	- FUSE
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HC	- HEATER CONTACTOR
HM	- HOUR METER
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SSPS	- SOLID STATE PROTECTION SYS.
SW	- SWITCH ON/ OFF
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
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•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUIVALENT AND COPPER CONDUCTOR ONLY. COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANKCASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANKCASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

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5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT FOR
208-230/3PH/60HZ

7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ,
380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) IF THE POWER SUPPLY IS 230V, CONNECT TO L3
IF THE POWER SUPPLY IS 380V, CONNECT TO N

OPTIONS
OPT. 1 - CRANKCASE HEATER
OPT. 2 - SINGLE STAGE HEATING
OPT. 3 - TWO STAGE HEATING
OPT. 4 - OVER LOAD RELAY

WIR. DIA-RTP-2C-2FM3P-1BM3P		
C241390	1BCO11R07	01

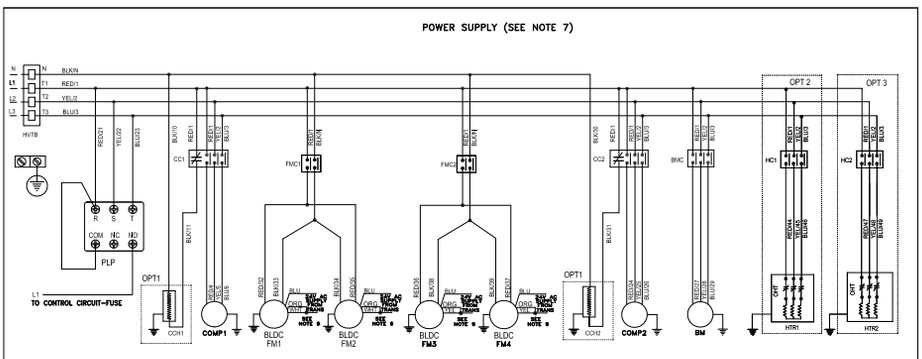
WIRING DIAGRAM

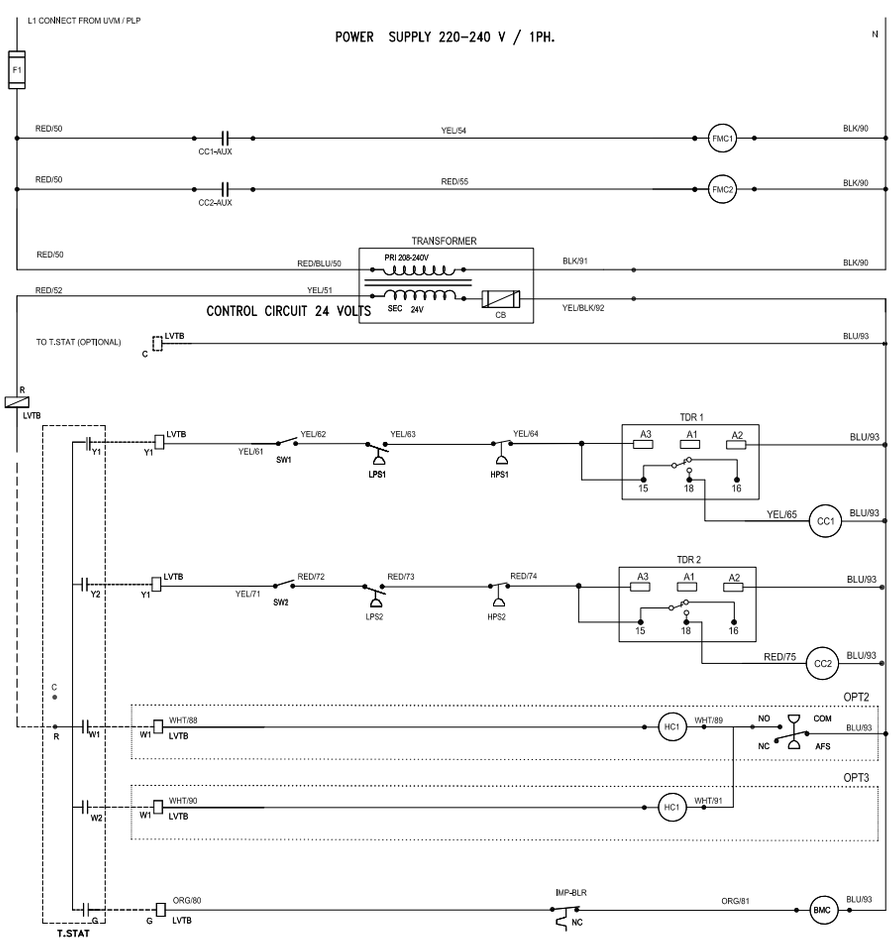
240K - 270K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380–415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
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LEGEND

AFS	- AIR FLOW SWITCH
AUX	- AUXILIARY
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
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CCH	- CRANK CASE HEATER
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COMP	- COMPRESSOR
F	- FUSE
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HC	- HEATER CONTACTOR
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OLR	- OVER LOAD RELAY
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PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SSPS	- SOLID STATE PROTECTION SYS.
SW	- SWITCH ON/ OFF
TDR	- TIME DELAY RELAY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

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6) POWER CIRCUIT FOR
208-230/3PH/60HZ

7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ,
380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

OPTIONS

OPT. 1 - CRANK CASE HEATER
OPT. 2 - SINGLE STAGE HEATING
OPT. 3 - DUAL STAGE HEATING

WIR DIA RTH 2C 4FMDC 1BM3P 970RPM

C241427	1BC011R44	00

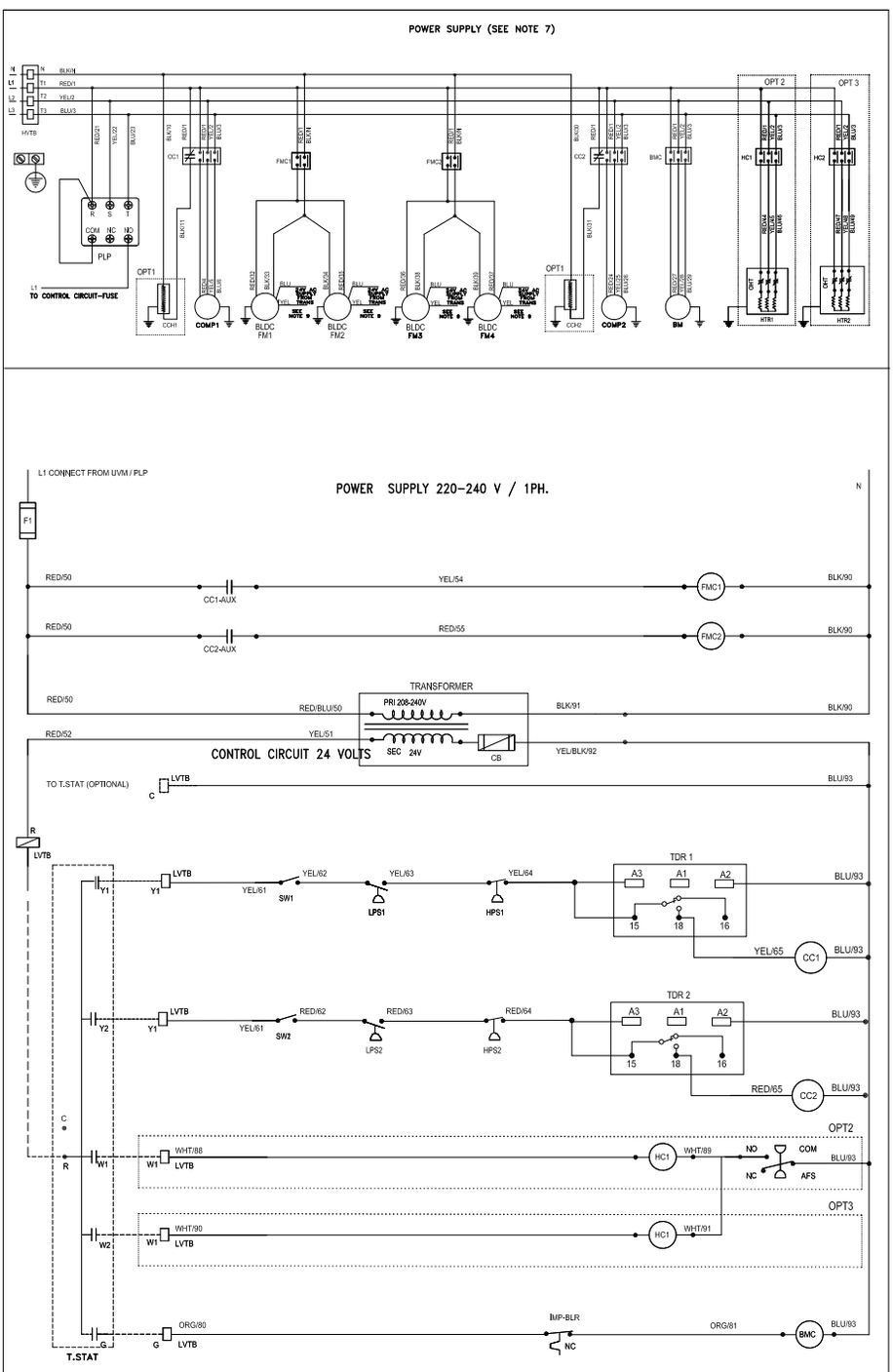
WIRING DIAGRAM

300K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380–415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR PACKAGE UNITS

WARNING
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LEGEND

AFS	- AIR FLOW SWITCH
AUX	- AUXILIARY
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
CC	- COMP CONTACTOR
CCH	- CRANK CASE HEATER
CB	- CIRCUIT BREAKER
COMP	- COMPRESSOR
F	- FUSE
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HC	- HEATER CONTACTOR
HM	- HOUR METER
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SSPS	- SOLID STATE PROTECTION SYS.
SW	- SWITCH ON/ OFF
TDS	- TIME DELAY SWITCH
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

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208-230/3PH/60HZ

7) POWER CIRCUIT FOR 380-415 V/3PH /50HZ,

380/400 V/3PH/60Hz & 460 V/3PH/60HZ WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

OPTIONS

OPT. 1 - CRANK CASE HEATER
OPT. 2 - SINGLE STAGE HEATING
OPT. 3 - DUAL STAGE HEATING

WIR DIA RTH 2C 4FMBLDC 1BM3P 1100RPM

C241428	1BC011R45	00

02

DUCTED SPLIT UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



DUCTED SPLIT

AIR CONDITIONERS

HY-EDG/HY-ESG - SD SOHz

R410A





صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
كمبريسر بتقنية يابانية
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

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INTRODUCTION

These concealed Ductable Split Indoor & Outdoor units have been developed & produced to provide not only the ultimate indoor comfort, but also to guarantee long & trouble free operations.

Here lies the reason for the choice of only the highest quality components and design strategist to meet the most important objective such as:

- EFFICIENCY
- RELIABILITY
- FLEXIBILITY
- EASY INSTALLABILITY
- SERVICEABILITY
- AFFORDABILITY



HYEDG
18K & 24K



HYESG
30K, 36K, 42K, 48K, 60K,70K & 80K



HYCST
18K



HYCST
24K

HYCSS
30K & 36K



HYCSS
42K, 48K, 60K & 70K

FEATURES

Indoor Features

- The Ducted indoor units are the new range of Concealed ductable split units with compact design, suitable for Horizontal installation in most standard drop ceiling application, having flexibility in installation & low labour cost.
- The Concealed ductable Indoor split units are designed by latest fan coil technology, highly efficient in performance and ideal for both commercial and residential application with whisper quiet operation.
- Ducted indoor units are Leak tested by electronic machines, piped, internally wired and having holding charge of refrigerant R410A.
- The Ducted units are available in 240 Volts / 1 Phase / 50Hz power supply with 24/230 volts control circuit as standard.
- The Ducted indoor units are equipped with Efficient and dependable metering of the refrigerant is provided by Flowrator a device which improves overall system efficiency and is easily accessible for routine maintenance.
- The Indoor split units are made from high quality Galvanized steel for high reliability and long period of operation.
- The coils are made of seamless inner grooved copper tube / Corrugated Aluminum fin.
- The units are designed with advanced refrigerant circuitry keeping in mind for the minimum pressure drop for best output.
- Ducted indoor units are insulated through 5mm insulation wherever required & evaporator is fully covered with drain pan.
- The units are completely factory wired with single point power input provided for utility, main power supply and control connections.
- The units are fitted with 3mm washable filters to restrict dust particles to enter inside the indoor unit as well as the cooling space.
- The units are provided wired controller with LCD display & also having Non LCD remote hand set. The
- Ducted indoor units (70K & 80K) having high efficient DC motor & units (18/24/30/36/42/48/60K) have permanent split capacitor motor (PSC) having compact design, consist of inbuilt permanently lubricated bearing & inbuilt thermal overload protector (OLP).
- The Ducted indoor units are provided with double inlet metal blower.

Outdoor Features

- The outdoor units are the new range of Outdoor split units, suitable for side discharge flow & installation on the roof or on the ground.
- The Ducted series from 1.5TR to 3TR capacities are available in 240 Volts / 1 Phase / 50 Hz and 3.5TR and above capacities are available in 415 Volts / 3 Phase / 50 Hz power supply.
- The units are designed & tested in accordance with ISO13253 standard.
- The units are Leak tested with electronic machines, piped, internally wired and fully charged with refrigerant R410A.
- The Outdoor units are made from high quality galvanized, weather resistant steel and wherever necessary powder coated for lasting protection and durability.
- Compressors are fully hermetic type designed for high efficiencyand provided with inbuilt thermal overload protector.
- The outdoor units (30K & above) are provided with contactors to avoid load on PCB during compressor function.
- Condenser coils are made of seamless inner grooved copper tube and aluminum corrugated fins mechanically bonded for maximum heat transfer. The
- Coils are factory tested for leaks at 550psig pressure. Condenser coils are designed to have minimum
- pressure drop for refrigerant flow to get best output. Easy accessible control box.
- Higher capacity units (36K & above) are provided
- with Low pressure control, High pressure control switch to safeguard compressor. All models are provided with built in 3 minutes Time
- delay for safe operation of the compressor. These outdoor units are provided with plastic mesh to
- safeguard & avoid access of condenser. The outdoor units are provided with Plastic direct drive axial fan which is designed aerodynamically for efficient air flow. The outdoor units 18 / 24 / 30 / 36 / 42 /48 / 60K
- motors are provided with inbuilt permanent lubricated bearing & inbuilt thermal overload protector (OLP) & 70K unit provided with DC motor.

ENGINEERING SPECIFICATIONS

Indoor & Outdoor Models

Models - Ducted with Side Discharge Condenser				Indoor Unit	HY EDG		HY ESG					
					18	24	30	36	42	48	60	70
				Outdoor Unit	CST			CSS				
					18	24	30	36	42	48	60	
Nominal Capacities			T1: Cooling @ 35°C	Btu/h	17,700	23,500	28,000	35,200	41,500	49,000	56,000	67,500
Power Consumption				Watts	1532	2035	2435	3061	3609	4261	4870	5870
Running Current				Amps	6.80	9.03	10.68	13.58	5.91	6.98	7.98	9.62
EER				Btu/hr/W	11.550	11.550	11.500	11.500	11.500	11.500	11.500	11.500
Nominal Capacities			T4: Cooling @ 48°C	Btu/h	16,300	20,000	23,400	31,000	37,000	44,800	51,800	59,500
Power Consumption				Watts	1895	2326	2721	3605	4302	5209	6023	6919
Running Current				Amps	8.41	10.32	11.93	15.99	7.05	8.54	9.87	11.34
EER				Btu/hr/W	8.600	8.600	8.600	8.600	8.600	8.600	8.600	8.600
kW / T @ 48°C				kW/T	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Refrigerant Type					R-410A							
Electrical Data		Power Supply	Indoor Unit	V/Ph/Hz	240/1/50							
			Outdoor Unit		240/1/50				415/3/50			
		Power Input @ T4	Indoor Motor	Watt	150	190	350	380	400	430	450	400
			Outdoor Motor		100	150	150	150	300	300	300	300
			Compressor		1645	1986	2221	3075	3602	4479	5273	6219
Indoor Unit	Fan	Fan Type			Double inlet Double width							
		Air flow Rate		m3/h	1100	1395	1785	2125	2550	2975	3483	4080
		Fan Motor Protection			Auto Reset Thermal Overload							
		Sound Pressure (H/M/L)		dBA	48/43/41	49/45/42	54/49/46	55/50/47	56/51/47	57/52/48	57/52/48	57/53/50
	Coil	Tube	Material		Inner Groove Copper Tube							
			Diameter	mm	7.00	7.00	9.52	7.94	9.52	9.52	9.52	7.94
		Fin	Material		Aluminum							
			No. Of Rows		4	4	3	4	3	3	3	4
			Fin per inch		17	17	16	18	14	14	14	14
	Coil Area			Sqm	0.23	0.23	0.30	0.34	0.34	0.43	0.43	0.51
	Expansion device / Location				Flow rator / IDU			TXV / IDU				
	Unit Dimensions		Height	mm	278	278	378	378	378	435	435	435
			Width		1,100	1,100	1,100	1,100	1,100	1,200	1,200	1,400
			Depth		622	622	660	660	660	700	700	700
	Net Weight			kg	45	45	65	68	68	75	75	78
	System Operation Control				Wired controller with remote							
	Condensate Drainage (O.D.)			mm	25.4							
	Air Filter				Synthetic, Washable							
Outdoor Unit	Air Discharge			Type	Side							
	Compressor	Quantity			1	1	1	1	1	1	1	1
		Compressor Type			Rotary			Scroll				
		Vibration Isolator			Rubber mount							
		Protection Device			Auto Reset Thermal Overload							
	Fan	Quantity			1	1	1	1	2	2	2	2
		Fan / Type Drive			Propeller/Direct Drive							
		Fan Speed		rpm	900	870	870	870	870	870	870	850
		Blade Material			Plastic							
	Coil	Type	Construction		Fin tube construction							
		Material	Tube		Inner groove copper tube							
			Fin		Aluminum							
		Rows deep		No's	3	3	3	3	3	3	3	3
	Coil Area			Sqm	0.49	0.80	0.80	0.80	1.37	1.37	1.37	1.37
	Dimensions		Height	mm	650	800	800	800	1335	1335	1335	1335
			Width		870	1000	1000	1000	1000	1000	1000	1000
			Depth		320	415	415	415	415	415	415	415
	Net Weight			kg	61	68	70	71	107	111	111	116
	Piping	Type			Flare + Nuts							
		Pipe Size	Suction	inch	1/2	5/8	5/8	5/8	3/4	3/4	3/4	3/4
			Liquid		1/4	1/4	3/8	3/8	3/8	1/2	1/2	1/2

- T1 : Nominal Cooling Capacity is based on 80.6°F (27°C) dry bulb, 66.2°F (19°C) wet bulb indoor conditions and 95°F (35°C) dry bulb ambient outdoor
- T4 : Cooling Capacity is based on 80.0°F (26.6°C) dry bulb, 67.0°F (19.4°C) wet bulb indoor conditions and 118.4°F (48°C) dry bulb ambient outdoor
- Specifications are subjected to change without notice in accordance with our policy of continous research and product development
- Noise test data is @ 1 meters distance, as per factory test standard

ENGINEERING SPECIFICATIONS

Indoor & Outdoor Models / 80K

TECHNICAL SPECIFICATIONS						
KU Model - Ducted with Side Discharge Condenser					Indoor Unit	HYESG80FC2K1
					Outdoor Unit	HYCSS80GC2K1
Nominal Capacities				T1: Cooling	Btu/h	80,000
Power Consumption					Watts	6780
Running Current					Amps	10.72
EER					Btu/hr/W	11.800
Nominal Capacities				T4: Cooling	Btu/h	70,000
Power Consumption					Watts	8140
Running Current					Amps	12.87
EER					Btu/hr/W	8.600
kW / T @ 48°C					kW/T	1.40
Refrigerant Type						R-410A
Electrical Data		Power Supply	Indoor Unit		V/Ph/Hz	240/1/50
			Outdoor Unit			415/3/50
		Power Input @ T4	Indoor Motor		Watt	400
			Outdoor Motor			300
			Compressor			7440
Indoor Unit	Fan	Fan Type				Double inlet Double width
		Air flow Rate			m3/h	4590
		Input Power			W	400
		Fan Motor Protection				Auto Reset Thermal Overload
		Sound Pressure (H/M/L)			dBA	57/53/50
	Coil	Tube	Material			Inner Groove Copper Tube
			Diameter		mm	7.94
		Fin	Material			Aluminum
			No. Of Rows			4
			Fin per inch			14
	Coil Area				Sqm	0.51
	Expansion device / Location					FR
	Unit Dimensions			Height	mm	435
				Width		1,400
				Depth		700
	Net Weight				kg	78
	System Operation Control					Wired controller with remote
	Condensate Drainage (O.D.)				mm	25.4
	Air Filter					Synthetic, Washable
Outdoor Unit	Air Discharge				Type	Side
	Compressor	Quantity				1
		Compressor Type				Scroll
		Vibration Isolator				Rubber mount
		Protection Device				Auto Reset Thermal Overload
	Fan	Quantity				2
		Fan / Type Drive				Propeller/Direct Drive
		Fan Speed			rpm	870
		Blade Material				Plastic
	Coil	Type	Construction			Fin tube construction
		Material	Tube			Inner groove copper tube
			Fin			Aluminum
		Rows deep			No's	3
	Dimensions			Height	mm	1552
				Width		1120
				Depth		528
	Net Weight				kg	150
	Piping	Type				Flare + Nuts
		Pipe Size		Suction	inch	7/8
				Liquid		1/2

- T1 : Nominal Cooling Capacity is based on 80.6°F (27°C) dry bulb, 66.2°F (19°C) wet bulb indoor conditions and 95°F (35°C) dry bulb ambient outdoor temperature at high speed.
- T4 : Cooling Capacity is based on 80.0°F (26.6°C) dry bulb, 67.0°F (19.4°C) wet bulb indoor conditions and 118.4°F (48°C) dry bulb ambient outdoor temperature at high speed.
- Specifications are subjected to change without notice in accordance with our policy of continous research and product development
- Noise test data is @ 1 meters distance, as per factory test standard

COOLING PERFORMANCE DATA

HYEDG18 + HYCST18

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 25Pa								
		509			598			647		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	13923	16380	17691	14971	17613	19022	16098	18939	20454
	SC	12252	14415	15568	13175	15500	16740	14166	16666	18000
	KW	1.05	1.23	1.33	1.13	1.33	1.43	1.21	1.42	1.54
95	TC	13012	15309	16533	13992	16461	17778	15045	17700	19116
	SC	11451	13472	14549	12313	14486	15645	13240	15576	16822
	KW	1.13	1.33	1.43	1.21	1.42	1.54	1.30	1.53	1.65
105	TC	12558	14774	15956	13503	15886	17157	14519	17082	18448
	SC	11051	13286	14041	11883	14286	15098	12777	15361	16234
	KW	1.21	1.42	1.54	1.30	1.53	1.65	1.40	1.65	1.78
115	TC	12103	14239	15378	13014	15311	16535	13994	16463	17780
	SC	10651	13100	13533	11452	14086	14551	12314	15146	15646
	KW	1.30	1.52	1.65	1.39	1.64	1.77	1.50	1.76	1.90
118.4	TC	11983	14098	15226	12885	15159	16372	13855	16300	17604
	SC	10545	12970	13399	11339	13946	14407	12192	14996	15492
	KW	1.39	1.64	1.77	1.50	1.76	1.90	1.61	1.90	2.05
125	TC	11025	12970	14008	11854	13946	15062	12747	14996	16196
	SC	9702	11932	12327	10432	12831	13255	11217	13796	14252
	KW	1.50	1.77	1.91	1.62	1.90	2.06	1.74	2.05	2.21

HYEDG24 + HYCST24

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 25Pa								
		668			746			821		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	18486	21748	23488	19877	23385	25256	21373	25145	27157
	SC	16267	19138	20669	17492	20579	22225	18808	22128	23898
	KW	1.39	1.64	1.77	1.50	1.76	1.90	1.61	1.89	2.04
95	TC	17276	20325	21951	18577	21855	23603	19975	23500	25380
	SC	15203	17886	19317	16348	19232	20771	17578	20680	22334
	KW	1.50	1.76	1.90	1.61	1.89	2.04	1.73	2.04	2.20
105	TC	16063	18898	20410	17272	20321	21946	18573	21850	23598
	SC	14136	16980	17961	15200	18258	19313	16344	19632	20766
	KW	1.54	1.82	1.96	1.66	1.95	2.11	1.78	2.10	2.27
115	TC	14850	17471	18869	15968	18786	20289	17170	20200	21816
	SC	13068	16073	16604	14052	17283	17854	15110	18584	19198
	KW	1.59	1.87	2.02	1.71	2.01	2.17	1.84	2.16	2.34
118.4	TC	14703	17298	18682	15810	18600	20088	17000	20000	21600
	SC	12939	15914	16440	13913	17112	17677	14960	18400	19008
	KW	1.71	2.01	2.17	1.84	2.16	2.34	1.98	2.33	2.51
125	TC	13527	15914	17187	14545	17112	18481	15640	18400	19872
	SC	11904	14641	15125	12800	15743	16263	13763	16928	17487
	KW	1.85	2.17	2.35	1.99	2.34	2.52	2.14	2.51	2.71

HYESG30 + HYCST30

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 50Pa								
		889			966			1050		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	22026	25912	27985	23683	27863	30092	25466	29960	32357
	SC	19382	22803	24627	20841	24519	26481	22410	26365	28474
	KW	1.66	1.96	2.12	1.79	2.11	2.27	1.92	2.26	2.45
95	TC	20585	24217	26155	22134	26040	28123	23800	28000	30240
	SC	18114	21311	23016	19478	22915	24748	20944	24640	26611
	KW	1.79	2.11	2.27	1.92	2.26	2.45	2.07	2.44	2.63
105	TC	18980	22329	24115	20408	24010	25931	21944	25817	27882
	SC	16702	20058	21222	17959	21568	22819	19311	23192	24536
	KW	1.83	2.15	2.32	1.96	2.31	2.49	2.11	2.48	2.68
115	TC	17375	20441	22076	18683	21980	23738	20089	23634	25525
	SC	15290	18806	19427	16441	20221	20889	17678	21743	22462
	KW	1.86	2.19	2.36	2.00	2.35	2.54	2.15	2.53	2.73
118.4	TC	17203	20239	21858	18498	21762	23503	19890	23400	25272
	SC	15139	18620	19235	16278	20021	20683	17503	21528	22239
	KW	2.00	2.35	2.54	2.15	2.53	2.73	2.31	2.72	2.94
125	TC	15827	18620	20109	17018	20021	21623	18299	21528	23250
	SC	13927	17130	17696	14976	18419	19028	16103	19806	20460
	KW	2.16	2.54	2.74	2.32	2.73	2.95	2.50	2.94	3.17

LEGEND	
	KW - TOTAL POWER INPUT IN KILOWATT (COMPRESSOR+CONDENSER MOTOR+BLOWER MOTOR)
	TC - GROSS TOTAL COOLING CAPACITY IN BTU/HR.
	SC - GROSS SENSIBLE COOLING CAPACITY IN BTU/HR.
	BF - BYPASS FACTOR.

NOTE	
	THE ABOVE RATINGS ARE BASED ON 80°F INDOOR AIR DRY BULB TEMPERATURE.
	AT ANY OTHER TEMPERATURE, CORRECT THE SC FROM ABOVE TABLE AS FOLLOWS: Corrected SC = SC + [1.08 x CFM(1-BF) x (DBT°F-80)]

COOLING PERFORMANCE DATA

HYESG36 + HYCSS36

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 50Pa								
		1058			1150			1250		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	27689	32576	35182	29773	35028	37830	32014	37664	40677
	SC	24367	28667	30960	26201	30824	33290	28173	33144	35796
	KW	2.09	2.46	2.66	2.25	2.65	2.86	2.42	2.85	3.07
95	TC	25878	30444	32880	27826	32736	35355	29920	35200	38016
	SC	22772	26791	28934	24487	28808	31112	26330	30976	33454
	KW	2.25	2.65	2.86	2.42	2.85	3.07	2.60	3.06	3.31
105	TC	24448	28762	31063	26288	30927	33401	28267	33255	35915
	SC	21514	25852	27336	23134	27798	29393	24875	29891	31606
	KW	2.36	2.77	3.00	2.53	2.98	3.22	2.73	3.21	3.46
115	TC	23018	27080	29246	24751	29118	31448	26614	31310	33815
	SC	20256	24914	25737	21780	26789	27674	23420	28805	29757
	KW	2.46	2.90	3.13	2.65	3.12	3.37	2.85	3.35	3.62
118.4	TC	22790	26812	28957	24506	28830	31136	26350	31000	33480
	SC	20055	24667	25482	21565	26524	27400	23188	28520	29462
	KW	2.65	3.12	3.37	2.85	3.35	3.62	3.06	3.61	3.89
125	TC	20967	24667	26640	22545	26524	28645	24242	28520	30802
	SC	18451	22694	23443	19840	24402	25208	21333	26238	27105
	KW	2.86	3.37	3.64	3.08	3.62	3.91	3.31	3.89	4.20

HYESG42 + HYCSS42

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 50Pa								
		1260			1385			1500		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	32645	38406	41478	35102	41297	44600	37744	44405	47957
	SC	28728	33797	36501	30890	36341	39248	33215	39076	42203
	KW	2.47	2.90	3.14	2.65	3.12	3.37	2.85	3.36	3.62
95	TC	30509	35893	38765	32806	38595	41683	35275	41500	44820
	SC	26848	31586	34113	28869	33964	36681	31042	36520	39442
	KW	2.65	3.12	3.37	2.85	3.36	3.62	3.07	3.61	3.90
105	TC	28991	34107	36836	31173	36675	39609	33520	39435	42590
	SC	25512	30661	32416	27433	32969	34855	29497	35450	37479
	KW	2.80	3.29	3.55	3.01	3.54	3.82	3.23	3.80	4.11
115	TC	27473	32321	34907	29541	34754	37534	31765	37370	40360
	SC	24176	29736	30718	25996	31974	33030	27953	34380	35516
	KW	2.94	3.46	3.74	3.16	3.72	4.02	3.40	4.00	4.32
118.4	TC	27201	32001	34561	29249	34410	37163	31450	37000	39960
	SC	23937	29441	30414	25739	31657	32703	27676	34040	35165
	KW	3.16	3.72	4.02	3.40	4.00	4.32	3.66	4.30	4.65
125	TC	25025	29441	31796	26909	31657	34190	28934	34040	36763
	SC	22022	27086	27981	23680	29125	30087	25462	31317	32352
	KW	3.42	4.02	4.34	3.67	4.32	4.67	3.95	4.65	5.02

HYESG48 + HYCSS48

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 50Pa								
		1456			1600			1750		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	38545	45347	48974	41446	48760	52661	44566	52430	56624
	SC	33919	39905	43098	36472	42909	46341	39218	46138	49829
	KW	2.91	3.43	3.70	3.13	3.69	3.98	3.37	3.96	4.28
95	TC	36023	42380	45771	38735	45570	49216	41650	49000	52920
	SC	31700	37294	40278	34086	40102	43310	36652	43120	46570
	KW	3.13	3.69	3.98	3.37	3.96	4.28	3.62	4.26	4.60
105	TC	34644	40758	44018	37252	43825	47331	40055	47124	50894
	SC	30487	36649	38736	32781	39408	41652	35249	42374	44787
	KW	3.35	3.94	4.25	3.60	4.23	4.57	3.87	4.55	4.92
115	TC	33265	39135	42266	35769	42081	45447	38461	45248	48868
	SC	29273	36004	37194	31476	38714	39993	33846	41628	43004
	KW	3.56	4.19	4.53	3.83	4.51	4.87	4.12	4.84	5.23
118.4	TC	32935	38748	41847	35414	41664	44997	38080	44800	48384
	SC	28983	35648	36826	31165	38331	39597	33510	41216	42578
	KW	3.83	4.51	4.87	4.12	4.84	5.23	4.43	5.21	5.63
125	TC	30301	35648	38500	32581	38331	41397	35034	41216	44513
	SC	26664	32796	33880	28671	35264	36430	30830	37919	39172
	KW	4.14	4.87	5.25	4.45	5.23	5.65	4.78	5.63	6.08
	KW	5.49	6.46	6.98	5.91	6.95	7.51	6.35	7.47	8.07

LEGEND	
	KW - TOTAL POWER INPUT IN KILOWATT (COMPRESSOR+CONDENSER MOTOR+BLOWER MOTOR)
	TC - GROSS TOTAL COOLING CAPACITY IN BTU/HR.
	SC - GROSS SENSIBLE COOLING CAPACITY IN BTU/HR.
	BF - BYPASS FACTOR.

NOTE	
	THE ABOVE RATINGS ARE BASED ON 80°F INDOOR AIR DRY BULB TEMPERATURE.
	AT ANY OTHER TEMPERATURE, CORRECT THE SC FROM ABOVE TABLE AS FOLLOWS: Corrected SC = SC + [1.08 x CFM(1-BF) x (DBT°F-80)]

COOLING PERFORMANCE DATA

HYESG60 + HYCSS60

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 50Pa								
		1489			1723			2049		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	44051	51825	55971	47367	55726	60184	50932	59920	64714
	SC	38765	45606	49254	41683	49039	52962	44820	52730	56948
	KW	3.33	3.92	4.23	3.58	4.21	4.55	3.85	4.53	4.89
95	TC	41169	48434	52309	44268	52080	56246	47600	56000	60480
	SC	36229	42622	46032	38956	45830	49497	41888	49280	53222
	KW	3.58	4.21	4.55	3.85	4.53	4.89	4.14	4.87	5.26
105	TC	39816	46842	50589	42813	50368	54397	46035	54159	58492
	SC	35038	42126	44519	37675	45297	47870	40511	48706	51473
	KW	3.85	4.53	4.89	4.14	4.87	5.26	4.45	5.24	5.65
115	TC	38462	45250	48870	41357	48656	52548	44470	52318	56503
	SC	33847	41630	43005	36394	44763	46242	39134	48133	49723
	KW	4.12	4.84	5.23	4.43	5.21	5.63	4.76	5.60	6.05
118.4	TC	38082	44802	48386	40948	48174	52028	44030	51800	55944
	SC	33512	41218	42580	36034	44320	45785	38746	47656	49231
	KW	4.43	5.21	5.63	4.76	5.60	6.05	5.12	6.02	6.50
125	TC	35035	41218	44515	37672	44320	47866	40508	47656	51468
	SC	30831	37920	39173	33151	40774	42122	35647	43844	45292
	KW	4.78	5.63	6.08	5.14	6.05	6.53	5.53	6.50	7.03

HYESG70 + HYCSS70

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 50Pa								
		1744			2018			2400		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
85	TC	53097	62467	67465	57094	67169	72543	61391	72225	78003
	SC	46726	54971	59369	50243	59109	63838	54024	63558	68643
	KW	4.01	4.72	5.10	4.32	5.08	5.48	4.64	5.46	5.90
95	TC	49624	58381	63051	53359	62775	67797	57375	67500	72900
	SC	43669	51375	55485	46956	55242	59661	50490	59400	64152
	KW	4.32	5.08	5.48	4.64	5.46	5.90	4.99	5.87	6.34
105	TC	46902	55178	59593	50432	59332	64078	54228	63798	68901
	SC	41273	49597	52442	44380	53330	56389	47721	57344	60633
	KW	4.52	5.32	5.75	4.86	5.72	6.18	5.23	6.15	6.64
115	TC	44180	51976	56134	47505	55888	60359	51081	60095	64903
	SC	38878	47818	49398	41804	51417	53116	44951	55287	57114
	KW	4.73	5.57	6.01	5.09	5.98	6.46	5.47	6.43	6.95
118.4	TC	43742	51462	55578	47035	55335	59762	50575	59500	64260
	SC	38493	47345	48909	41391	50908	52590	44506	54740	56549
	KW	5.09	5.98	6.46	5.47	6.43	6.95	5.88	6.92	7.47
125	TC	40243	47345	51132	43272	50908	54981	46529	54740	59119
	SC	35414	43557	44996	38079	46836	48383	40946	50361	52025
	KW	5.49	6.46	6.98	5.91	6.95	7.51	6.35	7.47	8.07

LEGEND	
	KW - TOTAL POWER INPUT IN KILOWATT (COMPRESSOR+CONDENSER MOTOR+BLOWER MOTOR)
	TC - GROSS TOTAL COOLING CAPACITY IN BTU/HR.
	SC - GROSS SENSIBLE COOLING CAPACITY IN BTU/HR.
	BF - BYPASS FACTOR.

NOTE	
	THE ABOVE RATINGS ARE BASED ON 80°F INDOOR AIR DRY BULB TEMPERATURE.
	AT ANY OTHER TEMPERATURE, CORRECT THE SC FROM ABOVE TABLE AS FOLLOWS: Corrected SC = SC + [1.08 x CFM(1-BF) x (DBT°F-80)]

COOLING PERFORMANCE DATA

HYESG80FC2K1 + HYCSS80GC2K1

Condenser Entering Air Temperature (°F)		Evaporator Air Flow (CFM) @ESP 62Pa								
		1962			2271			2700		
		Evaporator Entering Air Wet Bulb Temprature (°F)								
		62	67	72	62	67	72	62	67	72
	TC	62930	74035	79958	67667	79608	85977	72760	85600	92448
85	SC	55379	65151	70363	59547	70055	75659	64029	75328	81354
	KW	4.64	5.45	5.89	4.98	5.86	6.33	5.36	6.31	6.81
	TC	58813	69192	74727	63240	74400	80352	68000	80000	86400
95	SC	51756	60889	65760	55651	65472	70710	59840	70400	76032
	KW	4.98	5.86	6.33	5.36	6.31	6.81	5.76	6.78	7.32
	TC	55395	65170	70384	59564	70076	75682	64048	75350	81378
105	SC	48747	58573	61938	52416	62981	66600	56362	67722	71613
	KW	5.27	6.21	6.70	5.67	6.67	7.21	6.10	7.18	7.75
	TC	51976	61148	66040	55888	65751	71011	60095	70700	76356
115	SC	45739	56257	58115	49182	60491	62490	52884	65044	67193
	KW	5.57	6.55	7.07	5.98	7.04	7.60	6.43	7.57	8.18
	TC	51462	60543	65386	55335	65100	70308	59500	70000	75600
118.4	SC	45286	55700	57540	48695	59892	61871	52360	64400	66528
	KW	5.98	7.04	7.60	6.43	7.57	8.18	6.92	8.14	8.79
	TC	47345	55700	60156	50908	59892	64683	54740	64400	69552
125	SC	41663	51244	52937	44799	55101	56921	48171	59248	61206
	KW	6.46	7.60	8.21	6.95	8.18	8.83	7.47	8.79	9.49

LEGEND	
	KW - TOTAL POWER INPUT IN KILOWATT (COMPRESSOR+CONDENSER MOTOR+BLOWER MOTOR)
	TC - GROSS TOTAL COOLING CAPACITY IN BTU/HR.
	SC - GROSS SENSIBLE COOLING CAPACITY IN BTU/HR.
	BF - BYPASS FACTOR.

NOTE	
	THE ABOVE RATINGS ARE BASED ON 80°F INDOOR AIR DRY BULB TEMPERATURE.
	AT ANY OTHER TEMPERATURE, CORRECT THE SC FROM ABOVE TABLE AS FOLLOWS: Corrected SC = SC + [1.08 x CFM(1-BF) x (DBT°F-80)]

AIR FLOW CHART

Airflow (CFM)						
Model	Speed	External Static pressure (Pa)				
		0	25	50	75	100
HYEDG18	High	685	647	617	NA	NA
	Med	646	598	530	NA	NA
	Low	540	509	476	NA	NA
HYEDG24	High	875	821	778	NA	NA
	Med	796	746	697	NA	NA
	Low	708	668	624	NA	NA
HYESG30	High	1135	1092	1050	1008	968
	Med	1045	1005	966	927	890
	Low	961	924	889	853	819
HYESG36	High	1352	1300	1250	1200	1152
	Med	1244	1196	1150	1104	1060
	Low	1144	1100	1058	1016	975
HYESG42	High	1622	1560	1500	1440	1382
	Med	1498	1440	1385	1330	1276
	Low	1363	1311	1260	1210	1162
HYESG48	High	1893	1820	1750	1680	1613
	Med	1731	1664	1600	1536	1475
	Low	1575	1514	1456	1398	1342
HYESG60	High	2302	2173	2049	1886	1734
	Med	2083	1881	1723	1662	1581
	Low	1615	1563	1489	1397	1301
HYESG70	High	2697	2545	2400	2210	2031
	Med	2440	2203	2018	1947	1852
	Low	1892	1830	1744	1637	1524

Air flow (CMH)						
Model	Speed	External Static pressure (Pa)				
		0	25	50	75	100
HYEDG18	High	1165	1100	1049	NA	NA
	Med	1098	1017	901	NA	NA
	Low	918	865	809	NA	NA
HYEDG24	High	1488	1395	1323	NA	NA
	Med	1353	1268	1184	NA	NA
	Low	1204	1136	1062	NA	NA
HYESG30	High	1930	1856	1785	1714	1645
	Med	1776	1708	1642	1577	1513
	Low	1634	1571	1511	1450	1392
HYESG36	High	2298	2210	2125	2040	1958
	Med	2115	2033	1955	1877	1802
	Low	1945	1871	1799	1727	1658
HYESG42	High	2758	2652	2550	2448	2350
	Med	2547	2449	2355	2260	2170
	Low	2317	2228	2143	2057	1975
HYESG48	High	3218	3094	2975	2856	2742
	Med	2942	2829	2720	2611	2507
	Low	2677	2574	2475	2376	2281
HYESG60	High	3913	3694	3483	3207	2947
	Med	3541	3197	2929	2825	2687
	Low	2746	2656	2531	2376	2212
HYESG70	High	4584	4327	4080	3757	3452
	Med	4148	3745	3431	3310	3148
	Low	3216	3112	2965	2783	2591

AIR FLOW CHART

CFM / 80K

Airflow (CFM)						
Model	Speed	External Static pressure (Pa)				
		0	25	62	75	100
HYESG80	High	3034	2864	2700	2486	2285
	Med	2745	2478	2271	2190	2083
	Low	2129	2059	1962	1842	1714

CMH / 80K

Air flow (CMH)						
Model	Speed	External Static pressure (Pa)				
		0	25	62	75	100
HYESG80	High	5157	4868	4590	4226	3884
	Med	4667	4213	3860	3723	3541
	Low	3619	3501	3336	3131	2914

PIPE SELECTION CHART

R410A, 50/60 Hz
Suction line Pipe selection chart

Unit Size	Pipe Size	Equivalent Pipe length (m) - Vertical + Horizontal									
		7.5	10	15	20	25	30	35	40	45	50
18	1/2"*	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"			
	5/8"								5/8"	5/8"	5/8"
24	5/8"*	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	3/4"										
30	5/8"*	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"				
	3/4"							3/4"	3/4"	3/4"	3/4"
36	5/8"*	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"				
	3/4"							3/4"	3/4"	3/4"	3/4"
42	3/4"*	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"			
	7/8"								7/8"	7/8"	7/8"
48	3/4"*	3/4"	3/4"	3/4"	3/4"	3/4"					
	7/8"						7/8"	7/8"	7/8"	7/8"	7/8"
60	3/4"*	3/4"	3/4"	3/4"							
	7/8"				7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
70	3/4"*	3/4"	3/4"	3/4"							
	7/8"				7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"

*Standard pipe size

R410A, 50/60 Hz
Capacity loss multiplier

Unit Size	Pipe Size	Equivalent Pipe length (m) - Vertical + Horizontal									
		7.5	10	15	20	25	30	35	40	45	50
18	1/2"*	0	0.992	0.984	0.979	0.974	0.969	0.964			
	5/8"								0.969	0.955	0.945
24	5/8"*	0	0.994	0.982	0.982	0.972	0.967	0.963	0.958	0.943	0.934
30	5/8"*	0	0.99	0.982	0.982	0.972	0.967				
	3/4"							0.972	0.967	0.953	0.943
36	5/8"*	0	0.991	0.988	0.983	0.978	0.973				
	3/4"							0.978	0.973	0.959	0.949
42	3/4"*	0	0.989	0.982	0.977	0.972	0.967	0.963			
	7/8"								0.967	0.953	0.943
48	3/4"*	0	0.981	0.979	0.974	0.969	0.971				
	7/8"							0.969	0.964	0.950	0.940
60	3/4"*	0	0.982	0.978							
	7/8"				0.974	0.971	0.965	0.961	0.958	0.944	0.934
70	3/4"*	0	0.982	0.978							
	7/8"				0.974	0.971	0.965	0.961	0.958	0.944	0.934

General Notes:

1) The above chart is applicable for Recip / Scroll compressors
2) For Recip / Scroll compressor the max elevation allowed is 30 meters and the total Equivalent length of piping is to be limited to 50 meters
3) When the Outdoor unit is located above indoor unit, install a suction riser every 5 meters
4) The capacity derating as per the performance chart applicable at various ambiant temperatures
5) The total length exceed more than 20 mts the following components to be installed at site
   5.1) hard start kit (start capacitor and relay) must be installed on outdoor unit
   5.2) Crankcase heater must be installed on compressor

PIPE SELECTION CHART

R410A, 50/60 Hz
Liquid line Pipe selection Max Elevation: 30 Meters

Unit Size	Pipe Size	Equivalent Pipe length (m) - Vertical + Horizontal									
		7.5	10	15	20	25	30	35	40	45	50
18	1/4"*	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
24	1/4"*	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
30	3/8"*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
36	3/8"*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
42	3/8"*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
48	1/2"*	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
60	1/2"*	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
70	1/2"*	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

*Standard pipe size
The maximum elevation on Outdoor unit above indoor unit: 30 m.
Total Equivalent length of piping : 50 m.

General Notes:

1) The above chart is applicable for Recip / Scroll compressors.
2) For rotary compressor refer below table.
3) For Recip / Scroll compressor the max elevation allowed is 30 meters and the total Equivalent length of piping is to be limited to 50 meters.
4) Outdoor units are factory charged with Refrigerant (R410A) for standard pipe length of 5 meter only.

Pipe Length for Models With Rotary Compressor		
Unit Size	18K/24K/30K	36K
Max. Length	25 meter	30 meter
Max. Elevation	15 meter	20 meter

Extra Refrigerant Charging

Liquid line Size	R410a Charge (gm/m)
1/4"	20
3/8"	25
1/2"	30

PIPE SELECTION CHART

Liquid/ 80K

R410A, 50 Hz
Liquid line Pipe selection

Unit Size	Pipe Size	Equivalent Pipe length (m) - Vertical + Horizontal									
		7.5	10	15	20	25	30	35	40	45	50
80	1/2"*	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

*Standard pipe size

General Notes:
1) The above chart is applicable for Scroll compressors

2) For Scroll compressor the max elevation allowed is 30 meters and the total Equivalent length of piping is to be limited to 50 meters

Extra Refrigerant Charging

Liquid line size	R410a Charge(gm/ft)
1/2"	30

Suction / 80K

R410A, 50 Hz
Suction line Pipe selection chart

Unit Size	Pipe Size	Equivalent Pipe length (m) - Vertical + Horizontal									
		7.5	10	15	20	25	30	35	40	45	50
80	7/8"*	7/8"	7/8"	7/8"	--						
	1 1/8"	--			1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"

*Standard pipe size

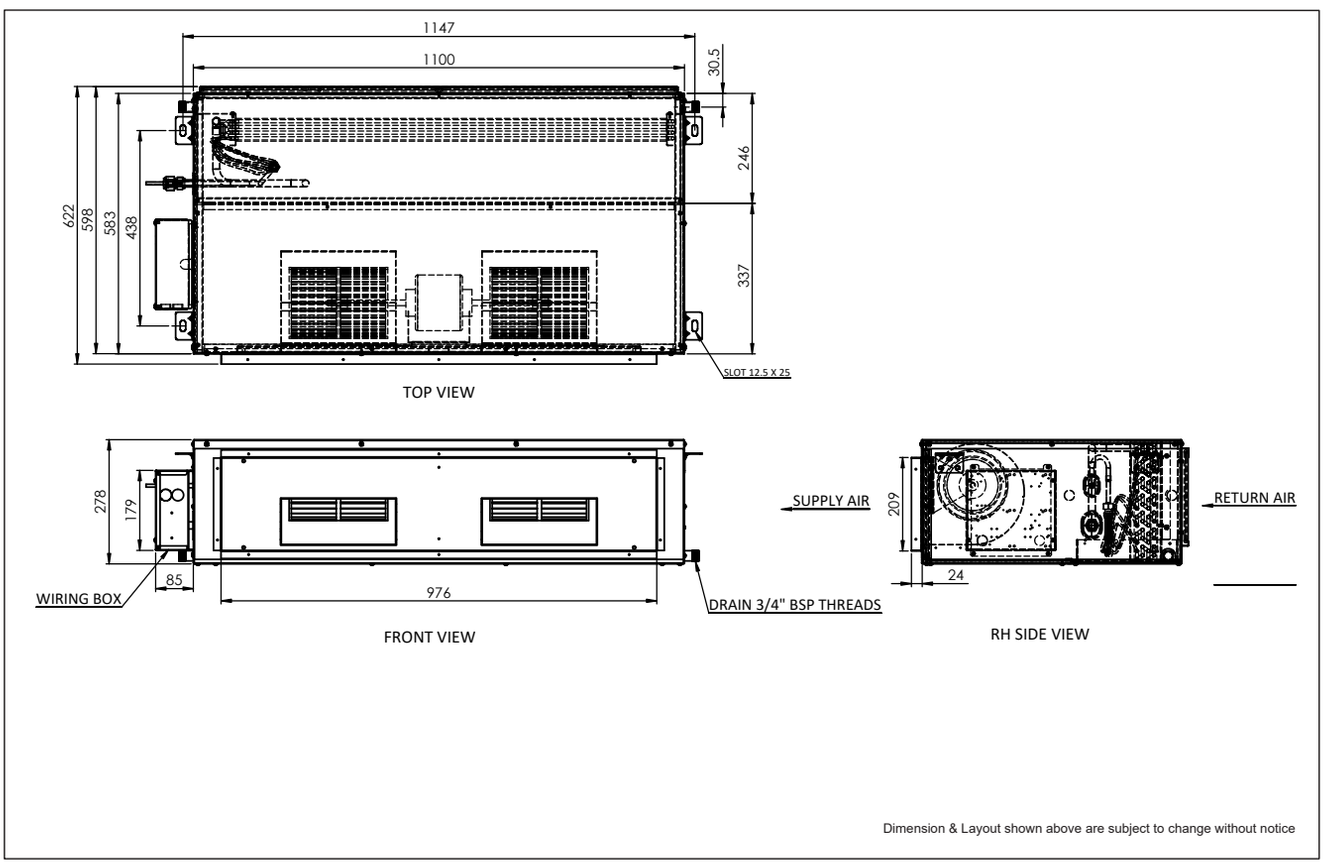
R410A, 50 Hz
Capacity loss multiplier

Unit Size	Pipe Size	Equivalent Pipe length (m) - Vertical + Horizontal									
		7.5	10	15	20	25	30	35	40	45	50
80	7/8"*	0	0.982	0.978	--						
	1 1/8"	--			0.974	0.971	0.965	0.961	0.958	0.944	0.934

General Notes:
1) The above chart is applicable for Scroll compressors
2) For Scroll compressor the max elevation allowed is 30 meters and the total Equivalent length of piping is to be limited to 50 meters
3) When the Outdoor unit is located above indoor unit, install a suction riser every 5 meters
4) The capacity derating as per the performance chart applicable at various ambiant temperatures
5) The total length exceed more than 20 mts the following components to be installed at site
5.1) hard start kit (start capacitor and relay) must be installed on outdoor unit
5.2) Crankcase heater must be installed on compressor

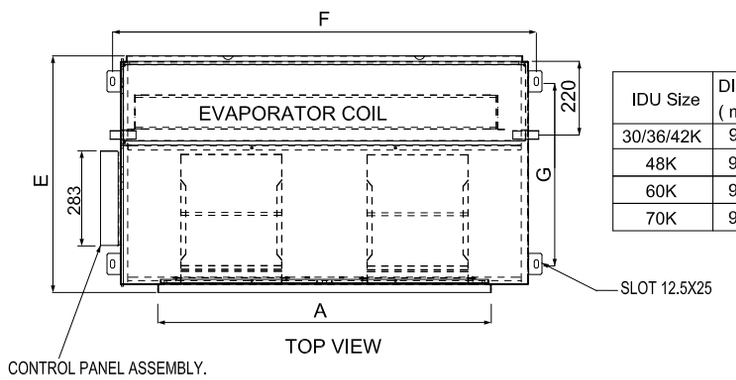
GENERAL ARRANGEMENT DRAWINGS

18K - 24K Indoor

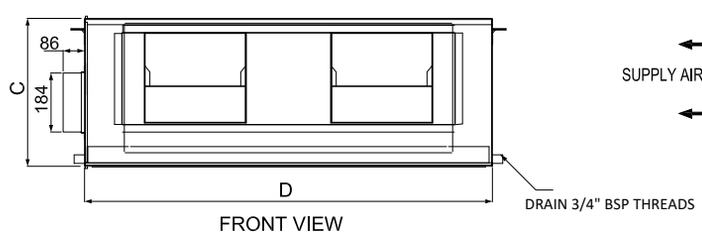


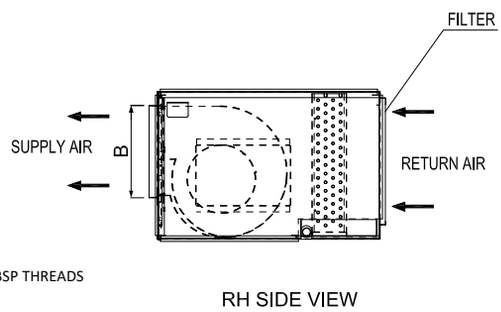
GENERAL ARRANGEMENT DRAWINGS

30K - 70K Indoor



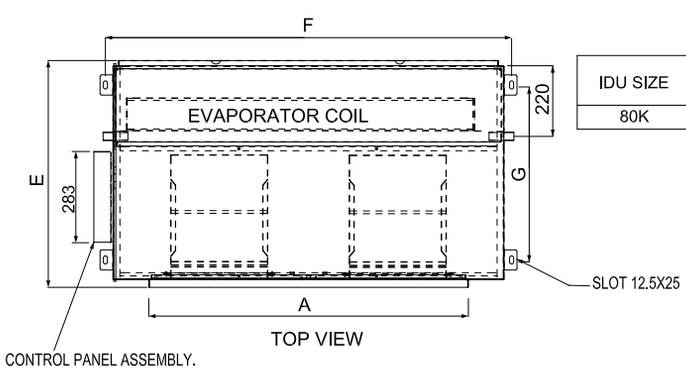
IDU Size	DIM 'A' (mm)	DIM 'B' (mm)	DIM 'C' (mm)	DIM 'D' (mm)	DIM 'E' (mm)	DIM 'F' (mm)	DIM 'G' (mm)
30/36/42K	978	243	378	1100	656	1147	497
48K	978	243	435	1200	696	1247	537
60K	982	272	435	1200	696	1247	537
70K	982	272	435	1400	696	1447	537



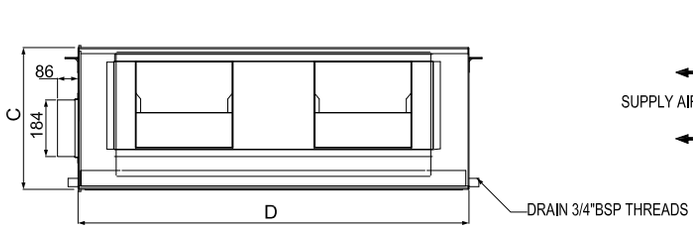


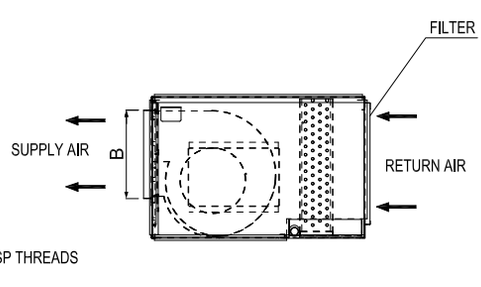
DIMENSIONS & LAYOUT SHOWN ABOVE ARE SUBJECT TO CHANGE WITHOUT NOTICE.

80K Indoor



IDU SIZE	DIM 'A' (mm)	DIM 'B' (mm)	DIM 'C' (mm)	DIM 'D' (mm)	DIM 'E' (mm)	DIM 'F' (mm)	DIM 'G' (mm)
80K	982	272	435	1400	696	1447	537

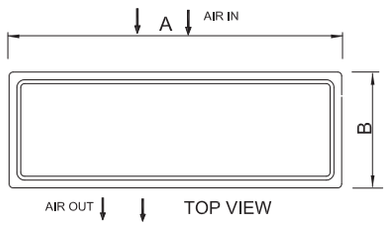


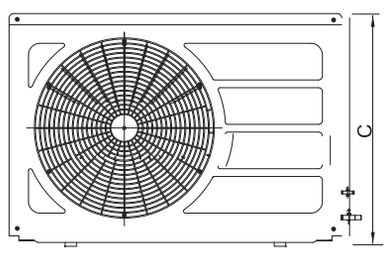


DIMENSIONS & LAYOUT SHOWN ABOVE ARE SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL ARRANGEMENT DRAWINGS

18K outdoor

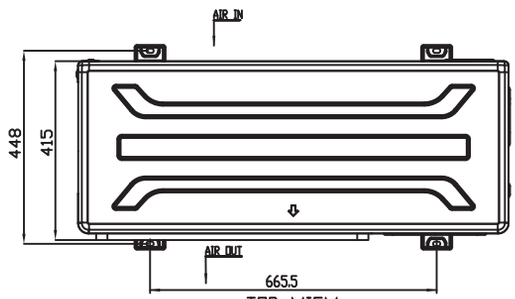


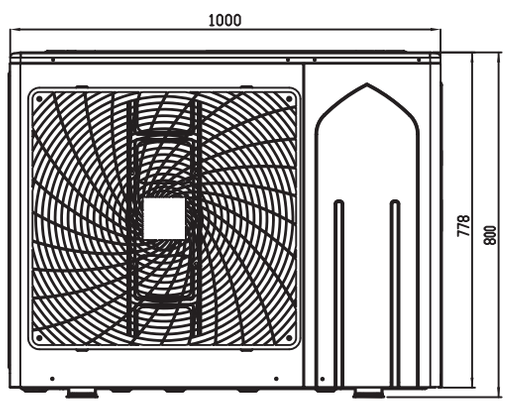


CST 18 SIDE DISCHARGE MODEL

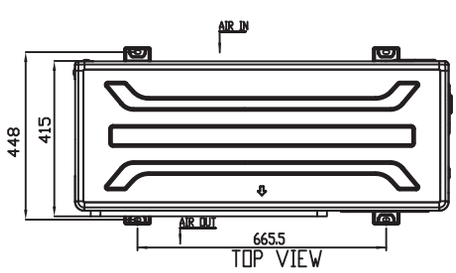
MODEL	DIM 'A' (mm)	DIM 'B' (mm)	DIM 'C' (mm)
CST 18	870	320	650

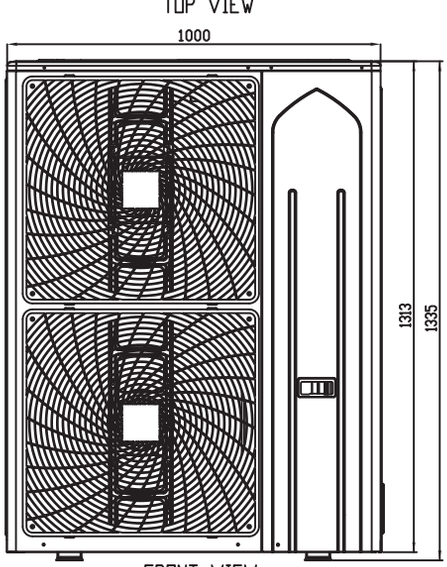
24K - 36K outdoor





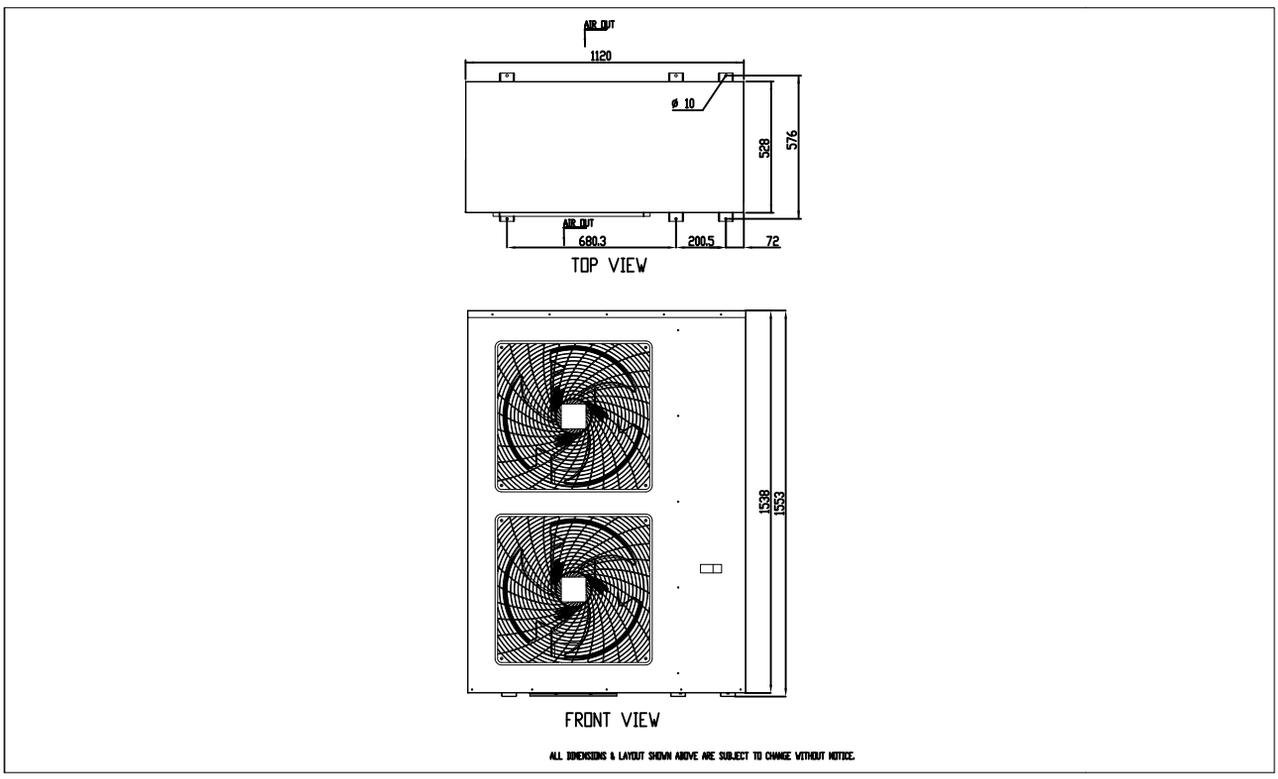
42K - 70K outdoor





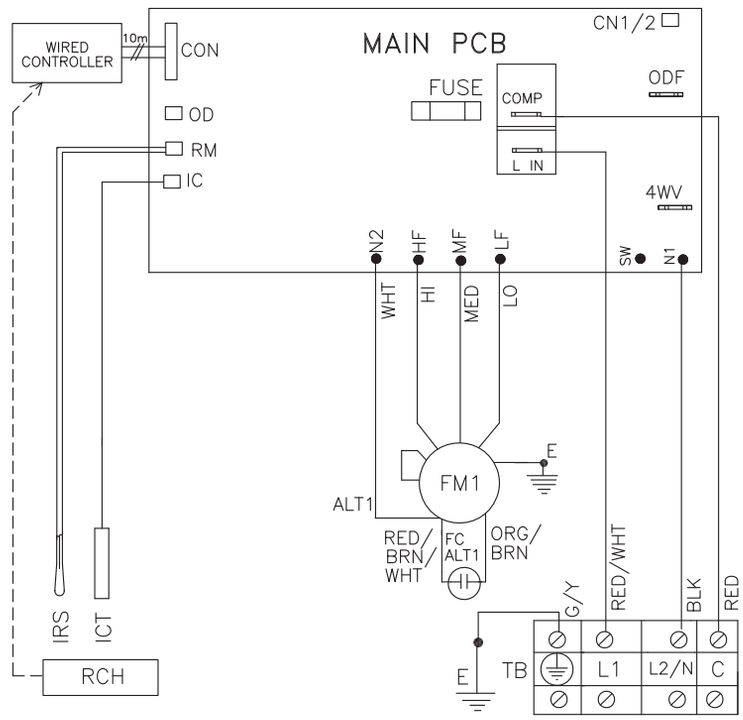
GENERAL ARRANGEMENT DRAWINGS

80K outdoor



WIRING DIAGRAM

18K - 60K indoor



LEGEND

ALT1= STANDERD CAPACITOR WIRING
ALT2= CAP. WIRES THROUGN PCB
ES = EMERGENCY SWITCH
FC = FAN CAPACITOR
FM = FAN MOTOR
HI = HIGH
OPT = OPTIONAL FEATURE
OLP = OVER LOAD PROTECTION
ODF = OUTER FAN
ICT = INDOOR COIL THERMISTER
IRS = INDOOR ROOM SENSOR
LO = LOW
M = MEDIUM
N = NEUTRAL
RCH = REMOTE CONTROL HANDSET
SM = SENSOR MODULE
STM = STEPPING MOTOR
SW = AIR SWING MOTOR
TB = TERMINAL BLOCK
—·— = OPTIONAL
----- = FIELD WIRING
⏚ = EARTHING
WHT = WHITE YEL = YELLOW
BLK = BLACK ORG = ORANGE
BLU = BLUE GRN = GREEN
RED = RED BRN = BROWN
G/Y = GREEN WITH YEL STRIPES

UNIT MODEL NO & CAPACITY BTU HRS	MOTOR SPD & WIRES COLORS			CAP. OPTION	AIR SWING
	HI SPEED	MD SPEED	LO SPEED		
EX/EN/EIA/EIB/EIC/EID 18/24	GRN/BRN	YEL	BLU	ALT1	STM1
EX/EN/EID 09/12/30/36/42K	BLK	GRN/BRN	YEL	ALT1	STM1
EIF/EB09/12K & EB/EP18/24K	WHT	YEL	BLU	ALT2	STM1
ED/ES 12/18/24/30/36/42/48/56/60K	BLK	BLU	YEL/RED	ALT1	--
ES 72/80K	BLK	YEL	BLU	ALT1	--
EB/EIA/EIB 30K	WHT	YEL	BLU	ALT2	STM2
EA/ER 12/18/24/30/36/42/48/56	BLK	BLU	YEL/RED	ALTI	SW

WIRING DIAGRAM

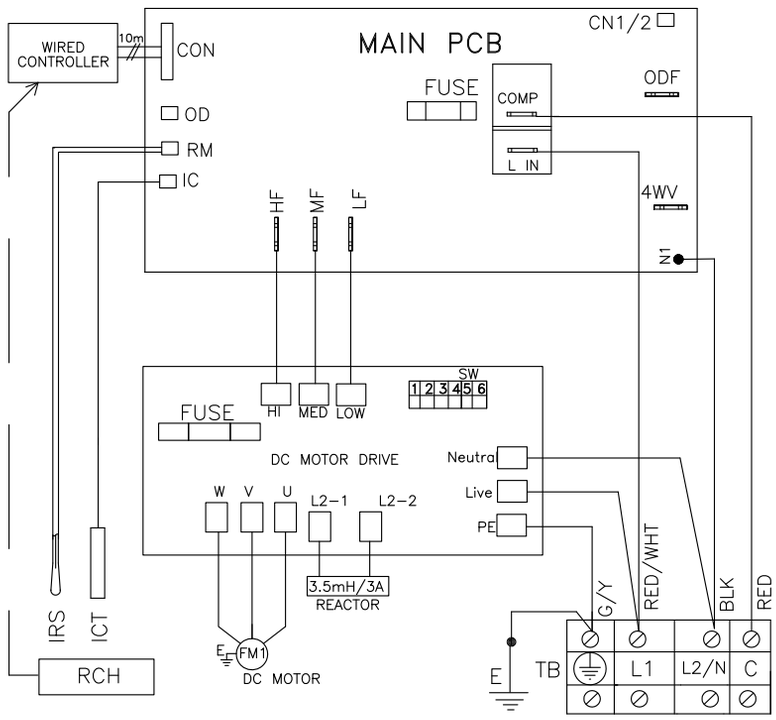
INDOOR UNIT

(COOL)

400103	1BC011420	04

WIRING DIAGRAM

70K indoor



DIP SWITCH SETTINGS ON DC MOTOR DRIVE PCB

Unit Capacity	Static Pressure	DIP6	DIP5	DIP 4	DIP 3	DIP 2	DIP 1
70k	0Pa	OFF	OFF	OFF	OFF	OFF	O N
	25Pa	OFF	OFF	OFF	OFF	O N	OFF
	50Pa *	OFF	OFF	OFF	OFF	O N	O N
	75Pa	OFF	OFF	OFF	O N	OFF	OFF
	100Pa	OFF	OFF	OFF	O N	OFF	OFF

* Factory setting

LEGEND

ALT1= STANDERD CAPACITOR WIRING
ALT2= CAP. WIRES THROUGN PCB
ES = EMERGENCY SWITCH
FC = FAN CAPACITOR
FM = FAN MOTOR
HI = HIGH
OPT = OPTIONAL FEATURE
OLP = OVER LOAD PROTECTION
ODF = OUTER FAN
ICT = INDOOR COIL THERMISTER
IRS = INDOOR ROOM SENSOR
LO = LOW
M = MEDIUM
N = NEUTRAL
RCH = REMOTE CONTROL HANDSET
SM = SENSOR MODULE
STM = STEPPING MOTOR
SW = AIR SWING MOTOR
TB = TERMINAL BLOCK
——— = OPTIONAL
- - - - - - = FIELD WIRING
⏚ = EARTHING
WHT = WHITE YEL = YELLOW
BLK = BLACK ORG = ORANGE
BLU = BLUE GRN = GREEN
RED = RED BRN = BROWN
G/Y = GREEN WITH YEL STRIPES

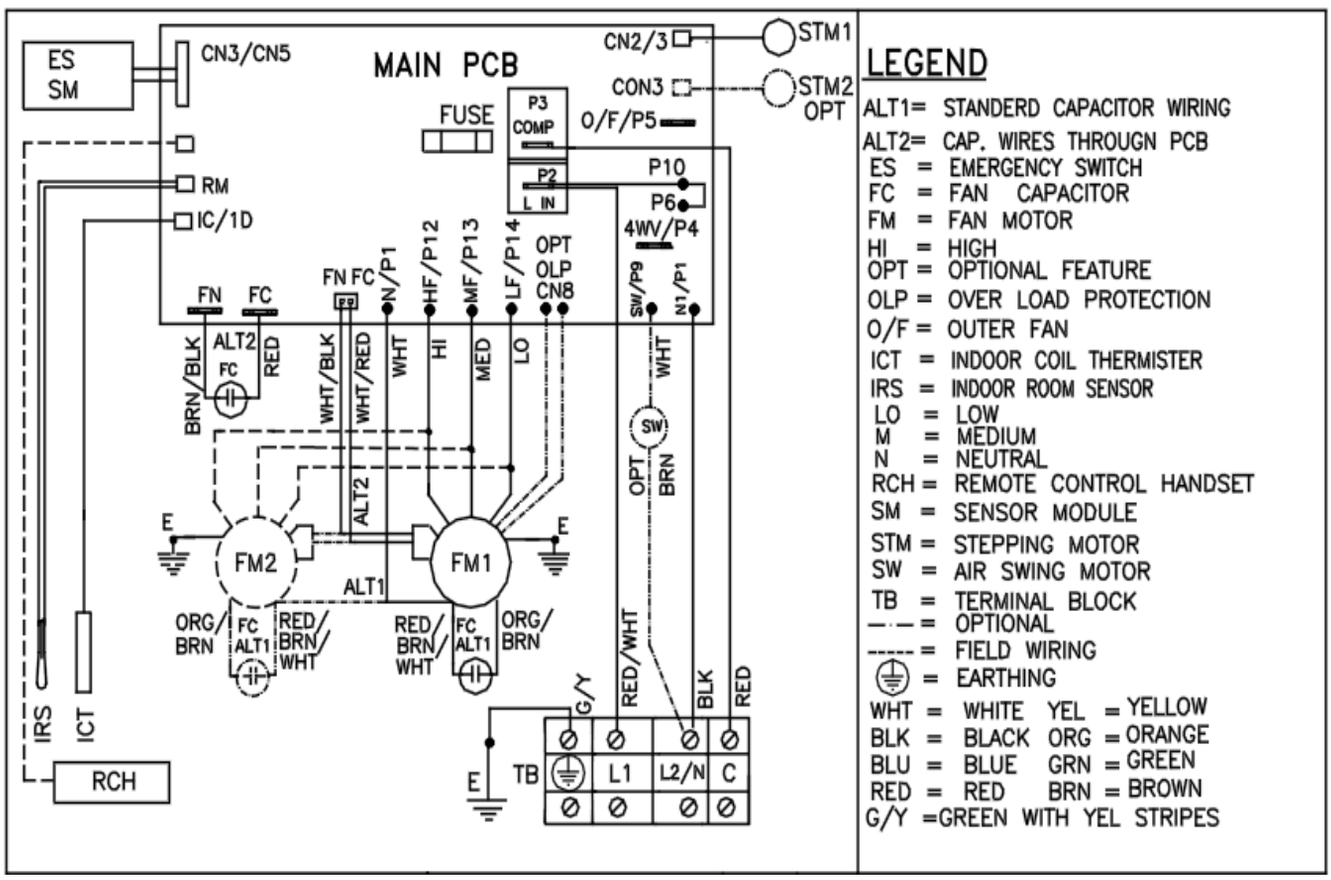
WIRING DIAGRAM

INDOOR UNIT
(70K–COOL)

400453	1BC011J03	00

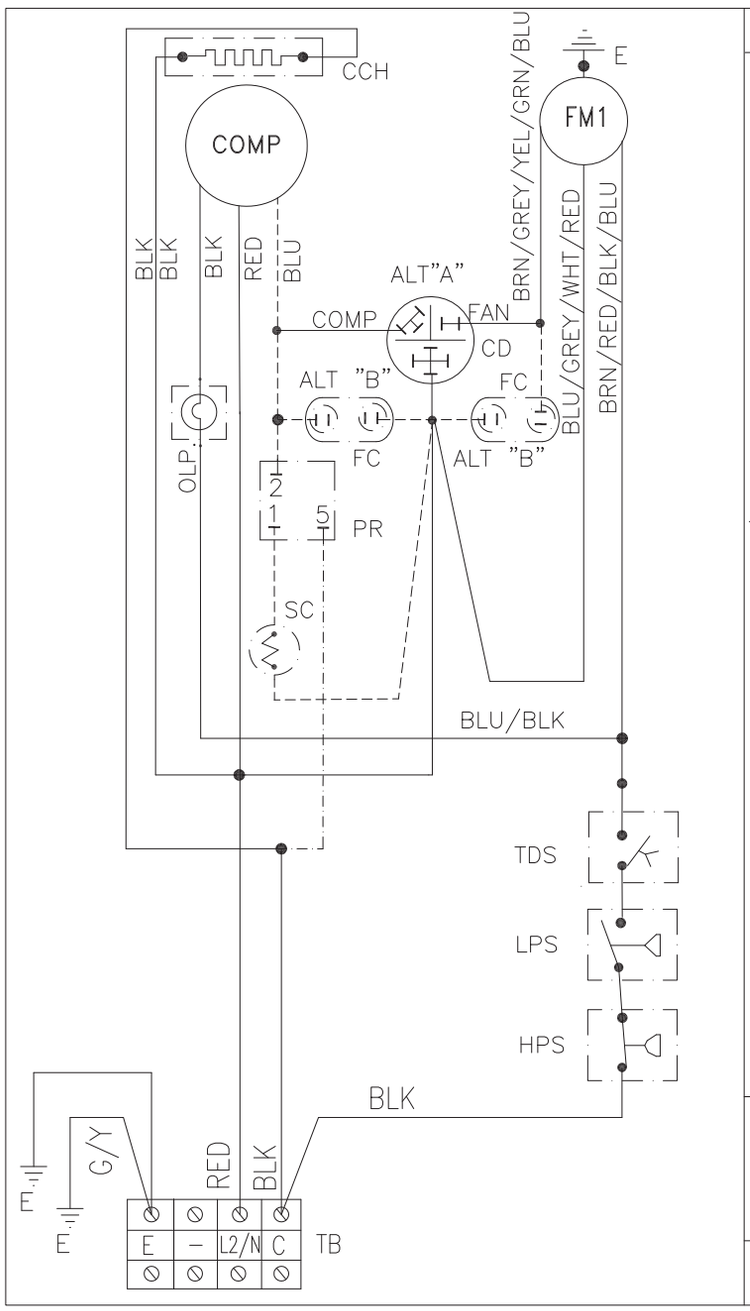
WIRING DIAGRAM

80K Indoor



WIRING DIAGRAM

18K - 24K outdoor



LEGEND

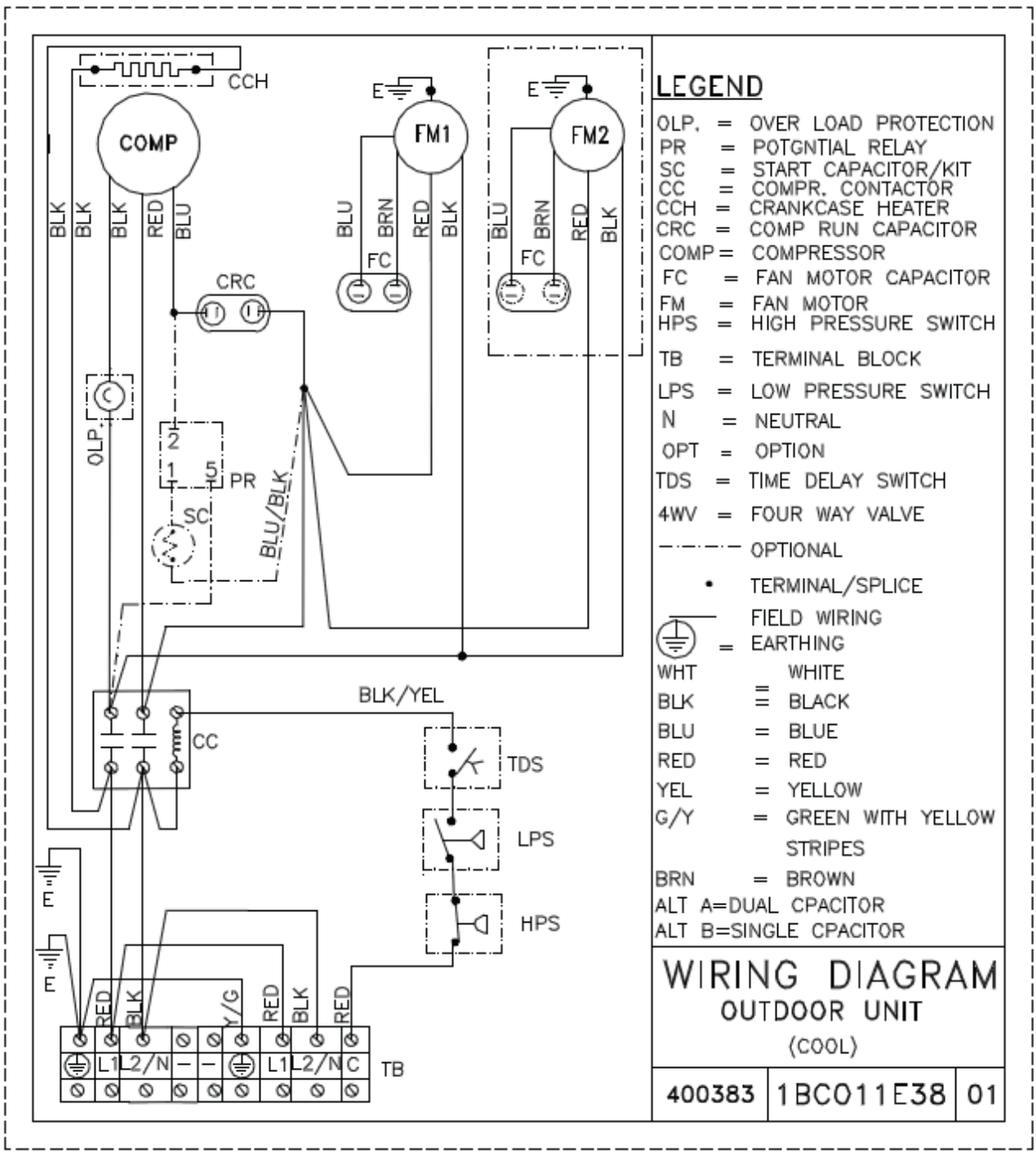
OLP.	=	OVER LOAD PROTECTION
SC	=	START CAPACITOR/KIT
PR	=	POTGNTIAL RELAY
CC	=	COMPR. CONTACTOR
CCH	=	CRANKCASE HEATER
COMP	=	COMPRESSOR
FC	=	FAN MOTOR CAPACITOR
FM	=	FAN MOTOR
HPS	=	HIGH PRESSURE SWITCH
TB	=	TERMINAL BLOCK
LPS	=	LOW PRESSURE SWITCH
N	=	NEUTRAL
OPT	=	OPTION
TDS	=	TIME DELAY SWITCH
4WV	=	FOUR WAY VALVE
— · —		OPTIONAL
•		TERMINAL/SPLICE
———		FIELD WIRING
⏚	=	EARTHING
WHT	=	WHITE
BLK	=	BLACK
BLU	=	BLUE
RED	=	RED
YEL	=	YELLOW
G/Y	=	GREEN WITH YELLOW STRIPES
BRN	=	BROWN
ALT"A"	=	DUAL CAPACITOR
ALT"B"	=	SINGLE CAPACITOR

WIRING DIAGRAM
OUTDOOR UNIT
(COOL)

400100	1BCO11415	09

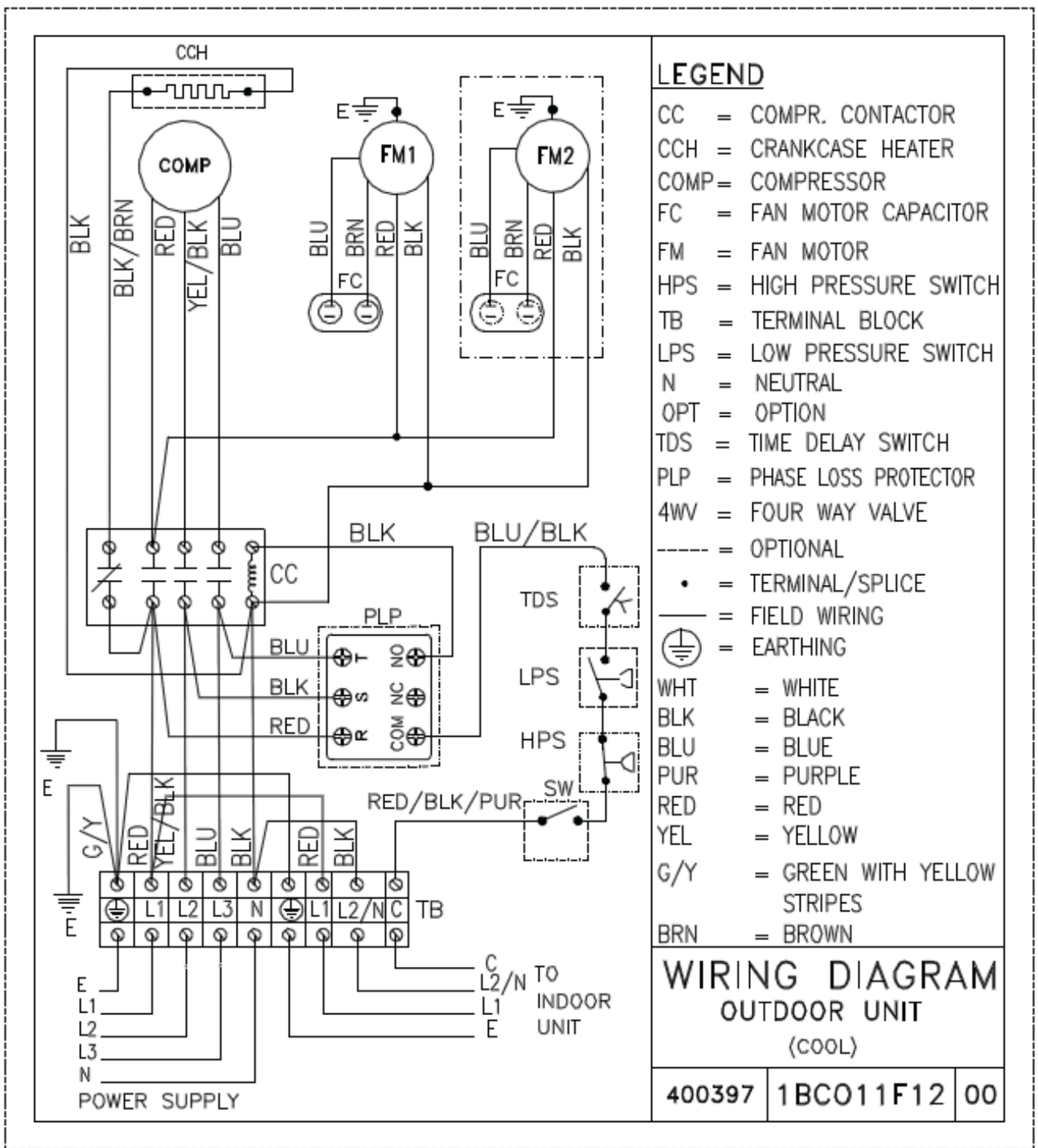
WIRING DIAGRAM

30K - 36K outdoor



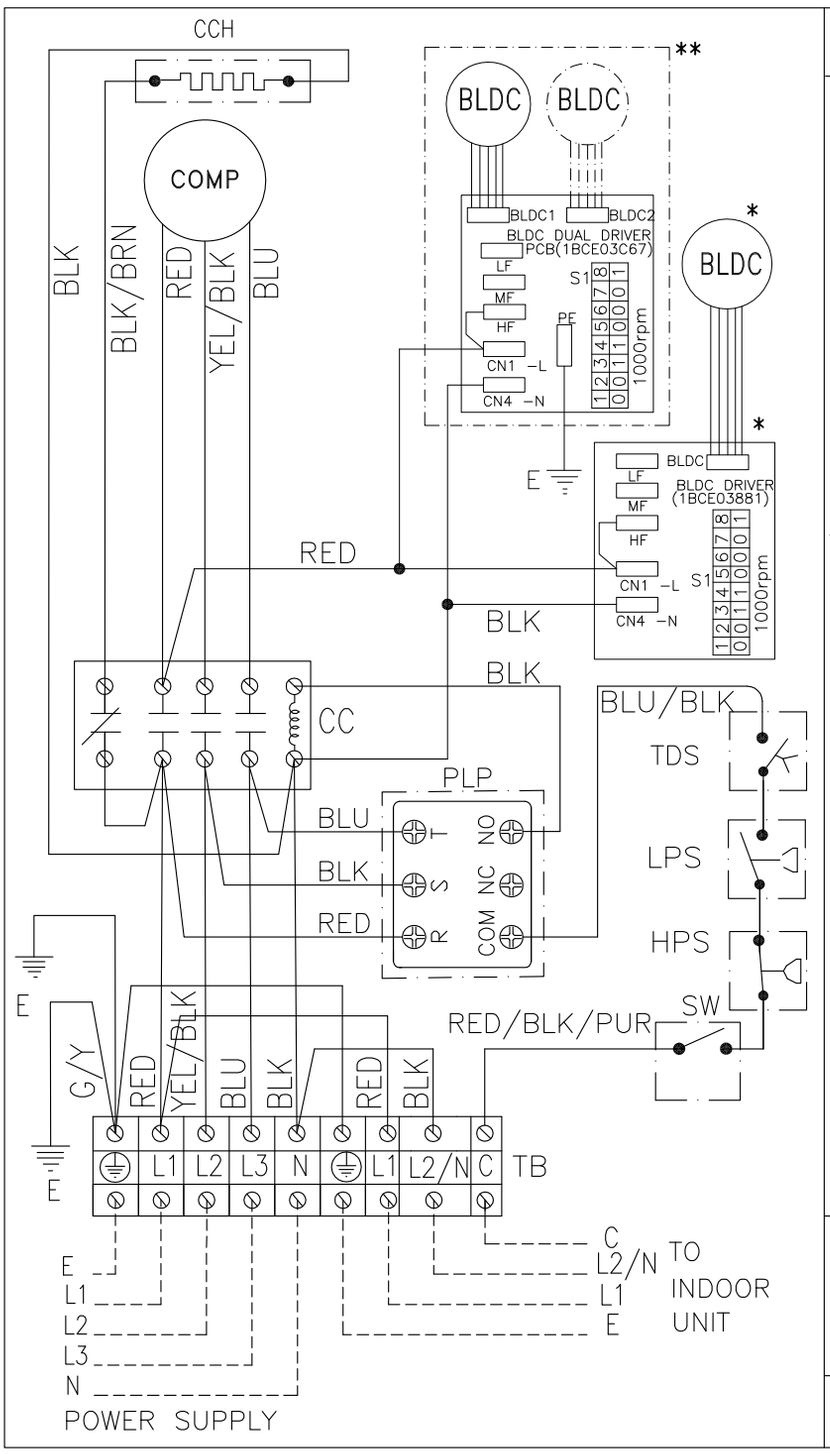
WIRING DIAGRAM

48K - 60K outdoor



WIRING DIAGRAM

70K outdoor



LEGEND

CC	=	COMPR. CONTACTOR
CCH	=	CRANKCASE HEATER
COMP	=	COMPRESSOR
FC	=	FAN MOTOR CAPACITOR
FM	=	FAN MOTOR
HPS	=	HIGH PRESSURE SWITCH
TB	=	TERMINAL BLOCK
LPS	=	LOW PRESSURE SWITCH
N	=	NEUTRAL
OPT	=	OPTION
TDS	=	TIME DELAY SWITCH
PLP	=	PHASE LOSS PROTECTOR
4WV	=	FOUR WAY VALVE
— · —	=	OPTIONAL
•	=	TERMINAL/SPLICE
----	=	FIELD WIRING
⏚	=	EARTHING

WHT	= WHITE	PUR	= PURPLE
BLK	= BLACK	RED	= RED
BLU	= BLUE	YEL	= YELLOW
BRN	= BROWN		
G/Y	= GREEN WITH YELLOW STRIPES		

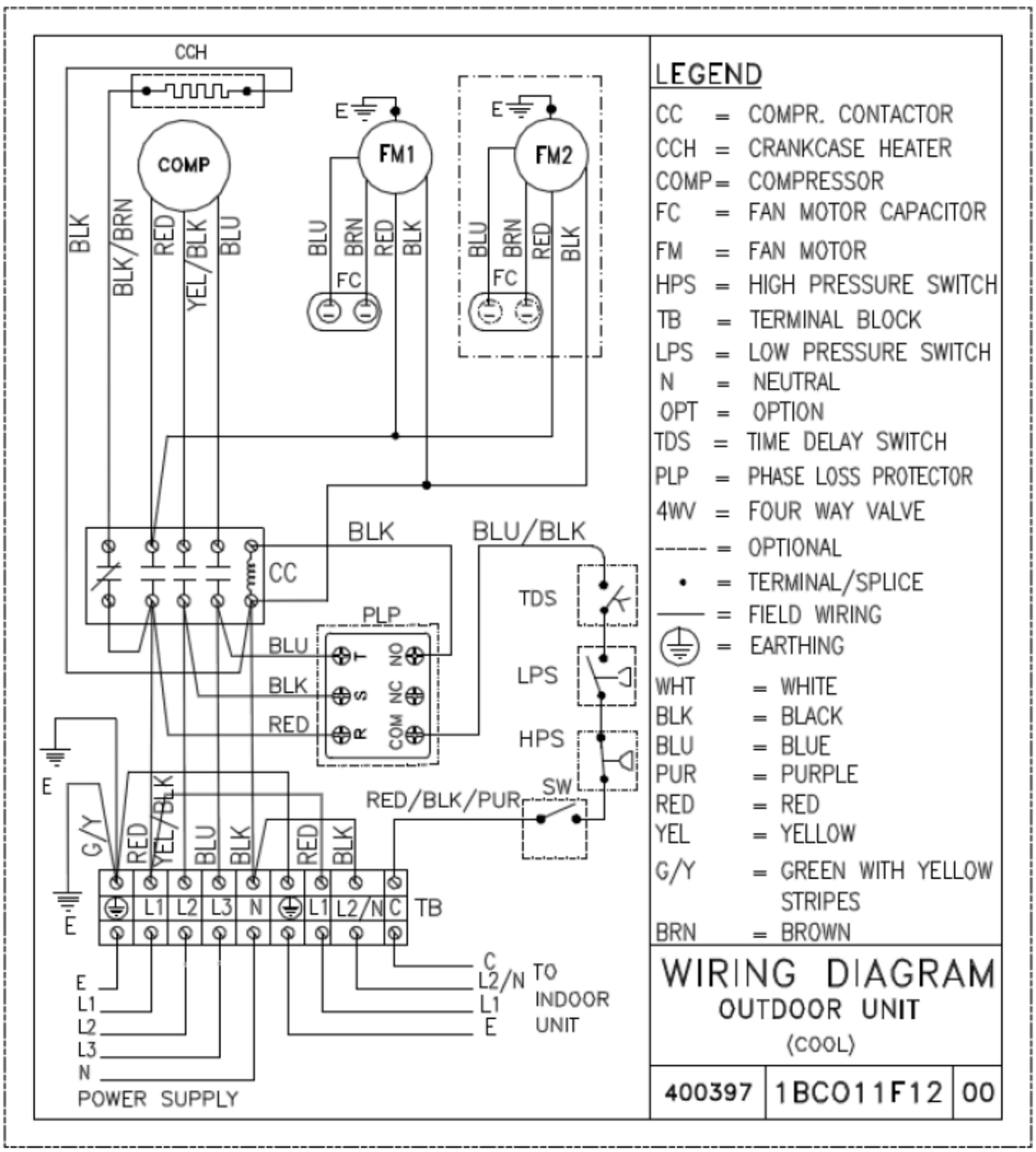
* —SINGLE BLDC DRIVER 2No.
** —DUAL BLDC DRIVER 1No.

WIRING DIAGRAM
OUTDOOR UNIT
(COOL)

400398	1BCO11F13	02

WIRING DIAGRAM

80K outdoor



03

CENTRAL DUCTED SPLIT INIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



CENTRAL

DUCTED SPLIT

AIR CONDITIONERS

Capacity 4-25TR

HY3IDH/HY3ODH - 50Hz

R410A - MEW





صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

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INTRODUCTION

Central ducted units have been developed & produced to provide not only the ultimate indoor comfort, but also to guarantee long & trouble free operations.

Here lies the reason for the choice of only the highest quality components and design strategist to meet the most important objective such as:

- EFFICIENCY
- RELIABILITY
- FLEXIBILITY
- EASY INSTALLABILITY
- SERVICEABILITY
- AFFORDABILITY

HY-3IDH



HY-3ODH



FEATURES

The Commercial Ducted Air Conditioners offer a unique combination of advanced Technology, versatility and ease of installation and operation. This range of Ducted Split units from AGM offers superior product quality, efficiency in operation and value for money.

These units are available as cool only with electric heater models and are available in 380-415 V/3 Ph / 50 Hz power supply. All models are designed for satisfactory operation in the high ambient conditions of 52°C.

With low noise levels and other unique features, these Ducted split units are suitable for a variety of applications such condominiums, offices, schools, commercial real estate, larger indoor play areas, and other similar applications.

All units are designed with the convenience of the customer and the end user in mind and are factory assembled and tested.

Outdoor Condensing Units

- Outdoor units are suitable for mounting on the roof or on the ground. All units are factory assembled, piped, internally wired and fully charged with R410A. These units are tested in accordance with ARI standards. All out door units are designed for up flow installations.
- The units are available in the following voltages range :-
  380-415V / 3PH / 50HZ
- Primary Control voltage is 24 volts through transformer.
- All components are mounted in a weather resistant steel cabinet. The cabinet and access panels are powder coated for lasting protection and durability.
- Compressors are fully hermetic Scroll type designed for high efficiency and provided with standard controls & safety devices.
- Condenser coils are made of seamless inner grooved copper tube and aluminum corrugated fins mechanically bonded for maximum heat transfer and Coils are factory tested for leaks and pressure 550psi.
- Condenser coils are designed to have minimum pressure drop for refrigerant flow to get best output.
- Condenser fans are propeller type, direct drive draw through vertical discharge with fan guard mounted to the panel.
- HP & LP controls are provided for the safe operation of the compressor.
- Easy accessible control box, Compressors and High pressure control (with manual reset button).

FEATURES

- All the units are provided with compressor lockout either by locking relays or by high pressure control trip with manual reset switch.
- All the units are provided with time delay sequencers (145sec & 180sec).

Indoor Fancoil Units

- The Indoor split units are designed by latest fan coil technology , highly efficient in performance, horizontal or vertical air flow (Customization) and are suitable for mounting on the floor or hanging on the ceiling.
- All Indoor split units are encased 1-piece fabricated, assembled, leak tested, piped, internally wired and with holding charge of refrigerant R410A.
- The indoor split units are available in the following voltages:-
  380-415 V /3 PH / 50 HZ
- Primary Control voltage is 24 volts through transformer.
- The Solid & Rugged construction of powder coated metal cabinet ensures years of rugged service, equipped with most advanced components for outstanding performance. The coil is made of seamless inner grooved copper tube/corrugated Aluminum fins.
- Efficient and dependable metering of the refrigerant is provided by thermostatic expansion device Or flowrator which improves overall system reliability and is easily accessible for routine maintenance.
- Units are completely factory wired with single point power input provided with knockouts for utility, main power supply and control connections.

Optional Features

- Electric Heater.
- Overload External protection for Blower Motor
- / Compressor & Condenser Fan
- Anti Ice thermostat.
- Hydrophilic Fin for Evaporator Coil.
- Copper Fins for Evaporator & Condenser coil.
  Heresite Coated Condenser Coil.
- Stainless Steel Drain Pan.
- Filter Differential pressure Switch.
- Compressor Alternating Switch.
- Hour Run Meter.

FEATURES

Optional Features

- Hour Run Meter.
- Fan Cycling Switch.
- Low Ambient kit.
- Rotolock Compressor
- Circuit breaker (MCB) for Compressor,
- Condenser Motor & Blower Motor.
- Pump Down System.
- Dual Adjustable Pressure Switch.
- Hot Gas Bypass (with Solenoid).
- Pressure Gauges.
- Oversized Blower Motor & Alternate Drive Package.
- PCB Controller.
- Advanced Microprocessor Controller.
- Adjustable Voltage Monitor.
  UV Light.
- Adjustable Pressure Switch.
- IP55 Class F Blower Motor up to 12.5TR
- VFD for Blower Motor.
- Soft Starter for Blower Motor.
- Volt free Contacts for Compressor &
- Blower ON/OFF/TRIP Status.
- Fire Alarm Interlock
- Crankcase Heater for Compressor
- Sight Glass
- 1″ Aluminum Filter for Indoor units upto 10TR
- 2″ Aluminum Filter for 12.5TR Indoor units and above.

ENGINEERING SPECIFICATIONS

Indoor

TECHNICAL SPECIFICATIONS						
MODEL / UNIT		**HY-3IDH048**	**HY-3IDH060**	**HY-3IDH0072**	**HY-3IDH090**	**HY-3IDH120**
RATED CAPACITY @T1 *	Cooling Btu/Hr	51300	61000	68,000	90,600	121,500
RATED POWER CONSUMPTION @T1	Watts	4080	4870	5,600	7,280	9,710
EER @T1 *		12.57	12.53	12.14	12.45	12.51
RATED CAPACITY @T4 **	Cooling Btu/Hr	42100	54000	57,500	80,500	107,000
RATED POWER CONSUMPTION @T4 **	Watts	4890	6270	6,650	9,300	12,400
EER @T4 **		8.61	8.61	8.65	8.66	8.63
NOMINAL AIR FLOW	CFM	1600	2000	2,400	3,000	3,900
EXTERNAL STATIC PRESSUE	Inch H2O g	0.2"	0.2"	0.25"	0.25"	0.3"
REFRIGERATION SYSTEM	Circuit	Single	Single	Single	Single	Dual
EVAPORATOR BLOWER	Type	Double inlet Centrifugal	Centrifugal			
	Drive	Direct Driven	Belt Driven			
	Dia.xWidth. in Inch	8"x10" Twin	12"x12"	12"x12"	15"x15"	15"x15"
POWER SUPPLY	V / Ph / Hz	220-240V / 1Ph / 50Hz	415V / 3Ph / 50Hz			
BLOWER MOTOR	Motor H.P	0.75	1.3	1.3	1.3	2.6
	IP	IP20	IP20	IP20	IP20	IP20
EVAPORATOR COIL	Type	Corrugated Fin & Inner grooved Tube				
	Tube - Dia - Row - FPI	3/8"-3-14	3/8"-4-16	3/8"-4-16	3/8"-4-14	3/8"-4-14
REFRIGERANT LINES	Suction Line conn. (Inch)	7/8	7/8	7/8	1 1/8	7/8
	Liquid Line conn. (Inch)	1/2	1/2	1/2	1/2	1/2
DRAIN FITTING	Connection size (Inch)	1	1	1	1	1
UNIT DIMENSIONS	W x D x H (mm)	1247 x 696 x 435	1127 x 1404 x 605	1127 x 1404 x 605	1414 x 1528 x 760	1414 x 1528 x 760

MODEL / UNIT		**HY-3IDH150**	**HY-3IDH180**	**HY-3IDH216**	**HY-3IDH240**	**HY-3IDH300**
RATED CAPACITY @T1 *	Cooling Btu/Hr	151,500	188,800	226,200	247,500	281,500
RATED POWER CONSUMPTION @T1	Watts	12,100	15,100	18,000	20,200	22,500
EER @T1 *		12.52	12.50	12.57	12.25	12.51
RATED CAPACITY @T4 **	Cooling Btu/Hr	127,000	159,700	188,600	216,500	245,000
RATED POWER CONSUMPTION @T4 **	Watts	14,650	18,500	21,800	25,000	28,400
EER @T4 **		8.67	8.63	8.65	8.66	8.63
NOMINAL AIR FLOW	CFM	5,200	6,000	7,400	8,200	9,200
EXTERNAL STATIC PRESSUE	Inch H2O g	0.3"	0.4"	0.4"	0.40	0.40
REFRIGERATION SYSTEM	Circuit	Dual	Dual	Dual	Dual	Dual
EVAPORATOR BLOWER	Type	Centrifugal				
	Drive	Belt Driven				
	Dia.xWidth. in Inch	15"x15"	15"x15"(TWIN)	15"x15"(TWIN)	15"x15"(TWIN)	15"x15"(TWIN)
POWER SUPPLY	V / Ph / Hz	415V / 3Ph / 50Hz				
BLOWER MOTOR	Motor H.P	2.6	5	5	5	7.5
	IP	IP20	IP55	IP55	IP55	IP55
EVAPORATOR COIL	Type	Corrugated Fin & Inner grooved Tube				
	Tube - Dia - Row - FPI	3/8"-4-14	3/8"-4-14	3/8"-4-14	3/8"-4-14	3/8"-4-14
REFRIGERANT LINES	Suction Line conn. (Inch)	7/8	7/8	1 1/8	1 3/8	1 3/8
	Liquid Line conn. (Inch)	1/2	1/2	7/8	7/8	7/8
DRAIN FITTING	Connection size (Inch)	1	1	1	1	1
UNIT DIMENSIONS	W x D x H (mm)	1764 x 2158 x 940	2000 x 2154 x 940	2000 x 2158 x 940	2000 x 2158 x 940	2000 x 2158 x 940

NOTES:
Refrigerant charge given above is for a set unit.
Refrigerant charge given above is for 25 feet piping connection.
Cooling Capacity & Power Consumption given are for the whole set unit.
*Cooling Capacity & EER are rated @ 80.6°F DBT/66.2°F WBT indoor and 95°F DBT outdoor.
** Cooling Capacity & EER are rated @ 80°F DBT/67°F WBT indoor and 118.4°F DBT outdoor .
As a result of continous research and development, the above specifications are subject to changes without notice.

ENGINEERING SPECIFICATIONS

Outdoor

TECHNICAL SPECIFICATIONS						
MODEL / UNIT		HY-3ODH048	HY-3ODH060	HY-3ODH0072	HY-3ODH090	HY-3ODH120
RATED CAPACITY @T1 *	Cooling Btu/Hr	51300	61000	68,000	90,600	121,500
RATED POWER CONSUMPTION @T1	Watts	4080	4870	5,600	7,280	9,710
EER @T1 *		12.57	12.53	12.14	12.45	12.51
RATED CAPACITY @T4 **	Cooling Btu/Hr	42100	54000	57,500	80,500	107,000
RATED POWER CONSUMPTION @T4 **	Watts	4890	6270	6,650	9,300	12,400
EER @T4 **		8.61	8.61	8.65	8.66	8.63
REFRIGERATION SYSTEM	Type	R-410A				
	Circuit	Single	Single	Single	Single	Dual
POWER SUPPLY	V / Ph / Hz	415V / 3Ph / 50Hz				
COMPRESSOR	Type	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity Nos.	1	1	1	1	2
CONDENSER FAN	Type	Propeller fan drive				
	Size-Dia x Width(Inch)	22"	26"	26"	22"	26"
	Quantity Nos.	1	1	1	1	2
CONDENSER MOTOR	Motor H.P	1/3	0.75	0.75	1/3	0.75
	Quantity Nos.	1	1	1	1	2
	IP	IP44	IP20	IP20	IP44	IP20
CONDENSER COIL	Type	Corrugated Fin & Inner grooved Tube				
	Tube - Dia - Row - FPI	3/8"-3-14	3/8"-3-15	3/8"-3-15	3/8"-3-15	3/8"-2-14
	No. of Coils	1	1	2	2	2
REFRIGERANT LINES	Suction valve conn. (Inch)	7/8	7/8	7/8	1 1/8	7/8
	Liquid Valve conn. (Inch)	1/2	1/2	1/2	1/2	1/2
UNIT DIMENSIONS	W x D x H (mm)	635 x 765 x 750	896 x 970 x 995	900 x 975 x 940	918 x 1590 x 945	1157 x 1950 x 1203

MODEL / UNIT		HY-3ODH150	HY-3ODH180	HY-3ODH216	HY-3ODH240	HY-3ODH300
RATED CAPACITY @T1 *	Cooling Btu/Hr	151,500	188,800	226,200	247,500	281,500
RATED POWER CONSUMPTION @T1	Watts	12,100	15,100	18,000	20,200	22,500
EER @T1 *		12.52	12.50	12.57	12.25	12.51
RATED CAPACITY @T4 **	Cooling Btu/Hr	127,000	159,700	188,600	216,500	245,000
RATED POWER CONSUMPTION @T4 **	Watts	14,650	18,500	21,800	25,000	28,400
EER @T4 **		8.67	8.63	8.65	8.66	8.63
REFRIGERATION SYSTEM	Type	R-410A				
	Circuit	Dual	Dual	Dual	Dual	Dual
POWER SUPPLY	V / Ph / Hz	415V / 3Ph / 50Hz				
COMPRESSOR	Type	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity Nos.	2	2	2	2	2
CONDENSER FAN	Type	Propeller fan drive				
	Size-Dia x Width(Inch)	26"	26"	26"	26"	26"
	Quantity Nos.	2	2	4	4	4
CONDENSER MOTOR	Motor H.P	0.75	0.75	0.75	0.75	0.75
	Quantity Nos.	2	2	4	4	4
	IP	IP20	IP20	IP20	IP20	IP20
CONDENSER COIL	Type	Corrugated Fin & Inner grooved Tube				
	Tube - Dia - Row - FPI	3/8"-3-15	3/8"-4-14	3/8" -3-14	3/8" -3-14	3/8" -4-14
	No. of Coils	2	2	2	2	2
REFRIGERANT LINES	Suction valve conn. (Inch)	7/8	7/8	1 1/8	1 3/8	1 3/8
	Liquid Valve conn. (Inch)	1/2	1/2	7/8	7/8	7/8
UNIT DIMENSIONS	W x D x H (mm)	1157 x 1950 x 1203	1157 x 2050 x 1240	2150 x 2000 x 1471	2150 x 2000 x 1471	2150 x 2000 x 1471

NOTES:
Refrigerant charge given above is for a set unit.
Refrigerant charge given above is for 25 feet piping connection.
Cooling Capacity & Power Consumption given are for the whole set unit.
*Cooling Capacity & EER are rated @ 80.6°F DBT/66.2°F WBT indoor and 95°F DBT outdoor.
** Cooling Capacity & EER are rated @ 80°F DBT/67°F WBT indoor and 118.4°F DBT outdoor .
As a result of continous research and development, the above specifications are subject to changes without notice.

COOLING PERFORMANCE DATA

048K

MODEL			AMBIENT AIR TEMPRATURE (°F)																			
			85.00			95.00			105.00			115.00			118.40			125.00				
	CFM	DBT (°F)	WBT (°F)	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW		
HY-3 IDH048FC1+HY-3ODH048GC1	1400	82	69	56085	36629	3.93	52842	35428	4.11	49516	34515	4.50	45567	33185	4.77	42967	32070	4.98	40366	30956	5.18	
		82	67	54884	39632	3.93	51161	38070	4.08	47686	37076	4.46	43710	35909	4.65	41233	34794	4.85	38509	33680	5.00	
		82	65	53322	42394	3.93	49840	40833	4.08	46345	39881	4.42	41976	38261	4.56	39376	37395	4.72	36776	36280	4.86	
		82	63	51401	45156	3.90	48278	43715	4.04	44881	42686	4.38	40738	40738	4.48	38385	38385	4.63	36156	36156	4.81	
		80	69	55965	34107	3.93	52722	32906	4.11	49516	31953	4.50	45567	30584	4.77	42967	29470	4.98	40366	28356	5.18	
		80	67	54884	37110	3.93	51161	35548	4.08	47686	34515	4.46	43710	33185	4.65	41233	32194	4.85	38509	31080	5.00	
		80	65	53322	39872	3.93	49840	38311	4.08	46467	37442	4.42	41976	35785	4.56	39376	34671	4.72	36776	33680	4.86	
		80	63	50320	43835	3.90	47318	42514	4.01	44027	41466	4.34	39995	39747	4.44	37519	37519	4.58	35166	35166	4.72	
		78	69	55965	31705	3.93	52722	30384	4.11	49516	29392	4.50	45567	27984	4.77	42967	26994	4.98	40243	25879	5.18	
		78	67	54764	34588	3.93	51281	33146	4.08	47686	32075	4.46	43710	30708	4.65	41233	29718	4.85	38509	28603	5.00	
		78	65	53202	37350	3.93	49840	35909	4.08	46467	34880	4.42	41976	33185	4.56	39376	32194	4.72	36652	31080	4.86	
		78	63	50320	41313	3.90	47318	39992	4.01	44027	38905	4.34	39995	37271	4.44	37395	36156	4.54	34547	34547	4.63	
		76	69	55724	29063	3.93	52602	27862	4.11	49394	26831	4.50	45443	25384	4.77	42843	24269	4.98	40119	23155	5.18	
		76	67	54644	32066	3.93	51281	30744	4.08	47564	29392	4.46	43586	28108	4.65	40986	26994	4.85	38385	25879	5.00	
		76	65	53082	34828	3.93	49720	33387	4.08	46345	32197	4.42	41852	30584	4.56	39252	29470	4.72	36652	28479	4.86	
		76	63	50200	38791	3.86	47198	37470	4.01	43905	36344	4.34	39871	34671	4.44	37271	33432	4.54	34299	32070	4.63	
		80.6	66.2	54056	39013	3.93	50354	37415	4.04	46896	36376	4.46	43111	35033	4.65	40655	34093	4.85	39620	32212	5.22	
		82	69	57166	38791	3.93	53923	37590	4.11	50613	36588	4.54	46558	35290	4.81	43834	34175	5.02	40986	33185	5.27	
		82	67	55364	41793	3.93	52122	40592	4.11	48784	39759	4.50	44700	38509	4.73	42100	37395	4.89	39376	36280	5.09	
		82	65	54283	45156	3.93	50800	43835	4.08	46954	42564	4.42	42843	41357	4.60	40366	40366	4.76	37766	37766	4.95	
		82	63	52722	48278	3.93	49359	46837	4.04	45735	45735	4.38	42100	42100	4.56	39871	39871	4.76	37642	37642	4.95	
		80	69	57166	36029	3.93	53923	34708	4.11	50613	33783	4.54	46558	32318	4.81	43834	31204	5.02	40986	30213	5.27	
		80	67	55364	39031	3.93	52122	37830	4.11	48784	36832	4.50	44700	35537	4.73	42100	34423	4.89	39376	33309	5.09	
		80	65	54283	42274	3.93	50921	40953	4.08	46954	39637	4.42	42843	38385	4.60	40366	37395	4.76	37642	36280	4.95	
		80	63	51761	46957	3.90	48519	45516	4.04	45125	44393	4.38	41233	41233	4.52	38881	38881	4.67	36652	36652	4.86	
	1600	78	69	57166	33267	3.93	53803	31945	4.11	50613	30978	4.54	46434	29470	4.81	43834	28356	5.02	40986	27365	5.27	
		78	67	55484	36269	3.93	52122	35068	4.11	48784	34027	4.50	44700	32689	4.73	42100	31575	4.89	39252	30461	5.09	
		78	65	54283	39511	3.93	50921	38311	4.08	46954	36832	4.42	42843	35537	4.60	40243	34547	4.76	37519	33432	4.95	
		78	63	51761	44195	3.90	48519	42754	4.04	45125	41588	4.38	40862	40119	4.48	38014	38014	4.63	35661	35661	4.77	
		76	69	57045	30384	3.93	53683	29063	4.11	50491	28051	4.54	46310	26498	4.81	43710	25384	5.02	40862	24393	5.23	
		76	67	55484	33507	3.93	52001	32066	4.11	48540	31100	4.50	44576	29718	4.69	41976	28603	4.89	39128	27489	5.09	
		76	65	54163	36629	3.93	50800	35308	4.08	46832	33905	4.42	42719	32566	4.60	40119	31575	4.76	37395	30461	4.91	
		76	63	51641	41193	3.90	48399	39872	4.04	45003	38661	4.38	40738	37023	4.48	37766	35661	4.58	35042	34423	4.68	
		80.6	66.2	54529	41033	3.93	51300	39816	4.08	47975	38818	4.50	44088	37517	4.73	41509	36453	4.89	40512	34522	5.31	

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

060K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH060GC1+ HY_3ODH060GC1	1800	82	69	65787	47856	4.31	63098	46847	4.91	59486	45138	5.36	56064	43352	5.81	54761	42918	6.18	53565	42483	6.55
		82	67	63546	52114	4.31	60968	51106	4.91	57499	49332	5.41	54326	47590	5.94	53239	47264	6.36	52370	46829	6.73
		82	65	61416	56037	4.26	58951	55028	4.91	55623	53305	5.45	52696	51501	6.04	51827	50958	6.46	50958	50632	6.92
		82	63	59960	59847	4.26	57830	57830	4.91	54961	54961	5.45	52370	52370	6.04	51501	51501	6.46	50740	50740	6.92
		80	69	65787	44045	4.31	63098	43036	4.91	59486	41276	5.36	56064	39767	5.81	54761	39223	6.18	53674	38789	6.55
		80	67	63546	48304	4.31	60968	47183	4.91	57499	45470	5.41	54326	43895	5.94	53348	43461	6.36	52370	43135	6.73
		80	65	61416	52226	4.26	58951	51218	4.91	55623	49553	5.45	52588	47915	6.04	51610	47481	6.46	50740	47155	6.92
		80	63	58727	58391	4.26	56597	56597	4.91	53857	53857	5.45	51175	51175	6.08	50414	50414	6.55	49654	49654	7.01
		78	69	65675	40347	4.31	62986	39338	4.91	59375	37634	5.36	55956	36072	5.81	54761	35638	6.18	53674	35203	6.55
		78	67	63546	44493	4.31	60968	43485	4.91	57499	41828	5.41	54326	40310	5.94	53239	39875	6.36	52262	39549	6.73
		78	65	61416	48528	4.26	58951	47519	4.91	55623	45801	5.45	52588	44221	6.04	51610	43895	6.46	50632	43569	6.92
		78	63	58503	54356	4.26	55813	53123	4.91	52864	51208	5.45	50197	49654	6.08	49219	49219	6.55	48459	48459	7.06
		76	69	65563	36536	4.31	62873	35415	4.91	59265	33881	5.36	55847	32378	5.85	54761	31944	6.18	53674	31509	6.55
		76	67	63434	40683	4.31	60744	39674	4.91	57389	38075	5.41	54217	36507	5.94	53131	36181	6.36	52153	35746	6.78
		76	65	61304	44605	4.26	58839	43597	4.91	55513	42048	5.45	52479	40527	6.04	51392	40093	6.50	50523	39767	6.97
		76	63	58615	50433	4.26	55813	49313	4.91	52533	47456	5.45	49654	45960	6.08	48676	45634	6.60	47915	45308	7.06
		80.6	66.2	62588	50781	4.31	60007	49661	4.87	56546	47921	5.41	53582	46340	5.94	52600	46024	6.36	53882	44707	7.03
	2000	82	69	66908	51106	4.36	63994	49985	4.91	59927	48118	5.36	56282	46394	5.81	55195	46068	6.08	54109	45634	6.41
		82	67	64667	55925	4.31	61977	54804	4.91	58492	52974	5.41	55195	51175	5.90	54000	50849	6.27	53022	50414	6.64
		82	65	62649	60520	4.26	60296	59063	4.91	56947	56947	5.41	54109	54109	5.94	53239	53239	6.36	52370	52370	6.73
		82	63	62201	62089	4.26	59960	59960	4.91	56947	56947	5.41	54109	54109	5.94	53239	53239	6.36	52370	52370	6.73
		80	69	66908	46735	4.36	63994	45726	4.91	60037	43924	5.36	56282	42266	5.81	55195	41831	6.13	54109	41505	6.41
		80	67	64667	51554	4.31	61977	50545	4.91	58492	48670	5.41	55195	47046	5.90	54000	46612	6.27	53022	46177	6.64
		80	65	62649	56149	4.26	59960	55140	4.91	56616	53305	5.45	53457	51610	5.99	52370	51175	6.41	51610	50632	6.83
		80	63	60856	60744	4.26	58727	58727	4.91	55733	55733	5.45	53022	53022	6.04	52153	52153	6.46	51284	51284	6.87
		78	69	66908	42588	4.36	63882	41467	4.91	60037	39841	5.36	56390	38245	5.81	55087	37811	6.13	54109	37485	6.46
		78	67	64667	47407	4.31	61977	46287	4.91	58382	44587	5.41	55087	42918	5.90	54000	42483	6.27	53022	42157	6.64
		78	65	62537	52002	4.26	59960	50994	4.91	56506	49222	5.45	53348	47481	5.99	52370	47155	6.41	51392	46720	6.87
		78	63	59735	57830	4.26	57382	57382	4.91	54519	54519	5.45	51827	51827	6.08	50958	50958	6.50	50197	50197	6.97
		76	69	66684	38217	4.36	63770	37096	4.91	60037	35647	5.36	56390	34008	5.81	55087	33573	6.13	53891	33247	6.46
		76	67	64555	43036	4.31	61753	41916	4.91	58272	40282	5.41	54978	38680	5.90	53891	38245	6.27	52913	37920	6.69
		76	65	62425	47631	4.26	59847	46511	4.91	56395	44807	5.45	53239	43243	5.99	52262	42809	6.41	51284	42483	6.87
		76	63	59063	53908	4.26	56709	53011	4.91	53526	51208	5.45	50740	49437	6.08	49871	49002	6.55	49002	48567	7.06
		80.6	66.2	63692	54198	4.31	61000	53199	4.87	57523	51294	5.41	54439	49667	5.90	53242	49361	6.27	54552	47860	6.93

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

072K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH072GC1+HY-3ODH072GC1	2100	82	69	73456	51173	5.03	70209	49829	5.64	65528	47577	5.94	60532	45264	6.27	58583	44397	6.65	56417	43423	7.07
		82	67	70993	55204	4.98	67745	53972	5.60	63215	51762	5.90	58475	49379	6.23	56417	48512	6.61	54360	47646	7.03
		82	65	68305	59011	4.94	65282	57779	5.56	61013	55506	5.90	56417	53169	6.19	54468	52411	6.57	52519	51436	7.00
		82	63	66626	63266	4.94	63266	61139	5.56	59250	59250	5.86	55334	55334	6.19	53818	53818	6.57	52194	52194	7.00
		80	69	73456	47366	5.03	70209	46022	5.64	65418	43832	5.94	60532	41582	6.27	58583	40716	6.65	56417	39849	7.07
		80	67	70993	51397	4.98	67745	50165	5.60	63215	47907	5.90	58475	45589	6.23	56417	44831	6.61	54360	43964	7.03
		80	65	68305	55092	4.94	65282	53972	5.56	61013	51762	5.90	56417	49487	6.19	54468	48621	6.57	52519	47863	7.00
		80	63	65394	61475	4.89	62482	60019	5.51	58259	56717	5.86	54143	54143	6.15	52627	52627	6.57	51003	51003	7.00
		78	69	73456	43670	5.03	70097	42327	5.64	65418	40198	5.94	60532	38008	6.27	58475	37142	6.65	56309	36276	7.07
		78	67	70881	47702	4.98	67745	46358	5.60	63105	44273	5.90	58366	42015	6.23	56417	41149	6.61	54360	40391	7.03
		78	65	68305	51397	4.94	65282	50277	5.56	61013	48127	5.90	56417	45805	6.19	54468	45047	6.57	52411	44181	7.00
		78	63	65282	57667	4.89	62370	56324	5.51	58039	53854	5.86	53277	51111	6.15	51761	50353	6.53	50028	49487	6.96
		76	69	73232	39751	5.03	69873	38408	5.64	65198	36453	5.94	60315	34218	6.27	58258	33460	6.65	56201	32594	7.07
		76	67	70657	43782	4.98	67521	42551	5.60	62995	40418	5.90	58258	38225	6.23	56201	37467	6.61	54143	36601	7.03
		76	65	68081	47478	4.94	65058	46358	5.56	60792	44273	5.90	56309	42123	6.19	54360	41257	6.57	52302	40499	7.00
		76	63	65170	53748	4.89	62258	52405	5.51	58149	50110	5.86	53277	47429	6.15	51436	46671	6.53	49487	45913	6.96
		80.6	66.2	69922	54033	4.98	66677	52799	5.56	62167	50490	5.90	57674	48128	6.23	55626	47474	6.61	55928	45566	7.34
	2400	82	69	75024	54532	5.07	71552	53188	5.69	66739	50770	5.98	61398	48296	6.27	59124	47429	6.65	56742	46563	7.07
		82	67	72448	59235	5.03	69089	57891	5.64	64427	55506	5.94	59449	53060	6.23	57392	52194	6.65	55334	51328	7.03
		82	65	69873	63602	4.98	66737	62370	5.60	62224	59911	5.90	57825	57067	6.23	55876	55876	6.61	54035	54035	7.03
		82	63	68081	67969	4.94	65506	65394	5.60	61563	61563	5.90	57500	57500	6.23	55767	55767	6.61	54035	54035	7.03
		80	69	75024	50165	5.07	71552	48821	5.69	66739	46585	5.98	61507	44181	6.27	59124	43315	6.65	56742	42340	7.07
		80	67	72448	54868	5.03	69089	53524	5.64	64427	51211	5.94	59449	48837	6.23	57500	47971	6.65	55334	47105	7.03
		80	65	69873	59235	4.98	66737	58003	5.60	62224	55726	5.90	57500	53277	6.23	55443	52411	6.61	53385	51544	7.03
		80	63	66961	65058	4.94	64050	64050	5.56	60242	60242	5.86	56201	56201	6.19	54576	54576	6.57	52844	52844	7.00
		78	69	74912	46022	5.07	71440	44678	5.69	66629	42400	5.98	61507	40174	6.27	59233	39308	6.65	56742	38333	7.07
		78	67	72336	50613	5.03	68977	49381	5.64	64316	47136	5.94	59449	44722	6.23	57392	43856	6.65	55226	42990	7.03
		78	65	69761	55092	4.98	66737	53860	5.60	62114	51541	5.90	57392	49162	6.23	55443	48404	6.61	53277	47538	7.03
		78	63	66737	61811	4.94	63154	60131	5.56	59140	57488	5.86	54901	54901	6.15	53277	53277	6.57	51653	51653	7.00
		76	69	74688	41655	5.03	71217	40311	5.64	66409	38105	5.98	61290	35843	6.27	59233	35085	6.65	56742	34218	7.07
		76	67	72224	46246	5.03	68865	44902	5.64	64096	42841	5.94	59233	40499	6.23	57283	39633	6.61	55118	38766	7.03
		76	65	69649	50613	4.98	66514	49381	5.60	62004	47246	5.90	57283	44939	6.19	55226	44073	6.61	53169	43206	7.03
		76	63	66626	57444	4.94	63154	55764	5.56	58590	53414	5.86	54251	51111	6.15	52411	50353	6.53	50570	49487	6.96
		80.6	66.2	71356	57682	5.03	68000	56335	5.60	63359	53972	5.94	58635	51557	6.23	56693	50800	6.65	56931	48821	7.34

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

090K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH090GC1+ HY-3ODH090GC1	2600	82	69	97466	64977	6.57	93292	63398	7.37	89400	62102	8.03	84743	60318	8.79	81761	59171	9.30	78551	57910	9.88
		82	67	93969	69489	6.53	89908	68023	7.30	86101	66765	7.96	81761	65249	8.72	78895	64102	9.26	75913	62840	9.81
		82	65	91712	74679	6.50	87539	72874	7.26	83144	71315	7.92	78780	69835	8.68	76028	68689	9.19	73161	67542	9.77
		82	63	88554	79642	6.42	84718	77950	7.22	80983	76547	7.89	76601	74766	8.61	73620	73276	9.16	70868	70868	9.73
		80	69	97466	60465	6.57	93292	58885	7.37	89400	57552	8.03	84628	55731	8.79	81761	54584	9.30	78551	53208	9.88
		80	67	93969	64977	6.53	89908	63398	7.30	86101	62216	7.96	81761	60662	8.72	78895	59515	9.26	75913	58254	9.81
		80	65	91712	70166	6.50	87426	68249	7.26	83258	66765	7.92	78780	65134	8.68	76028	64102	9.19	73161	62955	9.77
		80	63	87087	77499	6.42	83252	75807	7.18	79618	74386	7.85	75340	72588	8.61	72702	71441	9.12	69721	69721	9.70
		78	69	97353	56065	6.57	93179	54373	7.37	89286	53003	8.03	84628	51259	8.79	81647	50112	9.30	78436	48736	9.88
		78	67	94081	60690	6.53	89795	58998	7.30	85987	57780	7.96	81647	56189	8.72	78895	55043	9.26	75798	53781	9.81
		78	65	91712	65767	6.50	87426	63849	7.26	83258	62443	7.92	78665	60662	8.65	75913	59630	9.19	73046	58483	9.77
		78	63	87087	73099	6.42	83252	71294	7.18	79504	69950	7.85	75340	68115	8.61	72702	66854	9.12	69721	65478	9.70
		76	69	97014	51440	6.57	92953	49861	7.37	89058	48453	8.03	84284	46557	8.79	81417	45410	9.30	78207	44149	9.88
		76	67	94081	56291	6.53	89569	54373	7.30	85760	53117	7.96	81417	51488	8.72	78665	50341	9.26	75569	49080	9.81
		76	65	91487	61142	6.46	87200	59224	7.26	83258	57894	7.92	78436	55960	8.65	75798	54928	9.19	72932	53781	9.77
		76	63	86862	68474	6.38	83026	66669	7.18	79277	65287	7.85	75110	63414	8.61	72473	62152	9.12	69491	60662	9.70
		80.6	66.2	92552	68309	6.53	88490	66727	7.24	84674	65571	7.96	80641	64040	8.72	77788	63025	9.26	78104	60377	10.24
		82	69	99947	69038	6.61	95435	67346	7.41	91219	65969	8.07	86348	64217	8.83	83252	62955	9.34	80041	61579	9.92
		82	67	96225	74340	6.57	92051	72761	7.34	88035	71542	8.03	83367	69835	8.76	80500	68689	9.30	77289	67427	9.84
		82	65	93292	79642	6.50	88779	77724	7.26	84850	76661	7.96	80385	75110	8.68	77633	74078	9.23	74652	72817	9.81
		82	63	90697	85282	6.46	86636	83365	7.22	82461	82006	7.92	78321	78321	8.65	75913	75913	9.19	73390	73390	9.77
		80	69	99835	63962	6.61	95435	62270	7.41	91219	60851	8.07	86348	59056	8.83	83252	57795	9.34	80041	56419	9.92
		80	67	96225	69151	6.57	92051	67572	7.34	88035	66310	8.03	83481	64675	8.76	80500	63414	9.30	77289	62152	9.84
		80	65	93405	74679	6.50	88667	72535	7.26	84850	71429	7.96	80500	69950	8.68	77633	68803	9.23	74652	67657	9.81
		80	63	89231	82913	6.42	85170	81109	7.22	81438	79732	7.89	76945	76372	8.65	74308	74308	9.16	71785	71785	9.73
		78	69	99722	58998	6.61	95322	57306	7.41	91106	55846	8.07	86234	54011	8.83	83137	52749	9.34	79927	51373	9.92
	3000	78	67	96112	64187	6.57	91938	62608	7.34	88035	61306	8.00	83367	59630	8.76	80385	58368	9.30	77175	57107	9.84
		78	65	93517	69715	6.50	88554	67572	7.26	84850	66424	7.96	80385	64905	8.68	77519	63758	9.23	74652	62611	9.81
		78	63	89118	77950	6.42	85170	76145	7.22	81324	74727	7.89	76716	72932	8.61	73734	71441	9.16	70638	69950	9.70
		76	69	99496	53809	6.61	95097	52117	7.41	90878	50614	8.07	86004	48736	8.83	82908	47474	9.34	79697	46213	9.92
		76	67	95886	58998	6.53	91712	57419	7.34	87693	56074	8.00	83137	54355	8.76	80156	53093	9.30	77060	51832	9.84
		76	65	93405	64639	6.50	88667	62608	7.26	84622	61192	7.96	80156	59630	8.68	77404	58483	9.23	74422	57336	9.81
		76	63	88892	72761	6.42	84944	70956	7.22	81097	69381	7.89	76486	67542	8.61	73734	66281	9.16	70409	64790	9.70
		80.6	66.2	94774	72697	6.57	90600	71120	7.28	86576	69886	8.03	82338	68277	8.76	79371	67154	9.30	79520	64417	10.28

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Tempruture
WBT: Wet Bulb Tempruture

COOLING PERFORMANCE DATA

120K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH120GC2 + HY-3ODH120GC2	3500	82	69	130363	89692	8.50	125235	87664	9.79	117599	83800	10.62	110529	80136	11.51	108707	79339	12.27	107000	78770	13.08
		82	67	125593	96490	8.50	120822	94701	9.79	113637	90793	10.71	106886	86966	11.63	105065	86283	12.49	103471	85714	13.38
		82	65	120941	102812	8.45	116409	101142	9.79	109324	97087	10.71	102902	93340	11.72	101195	92657	12.61	99715	92088	13.55
		82	63	118198	110564	8.45	113546	108537	9.74	105828	103264	10.71	99601	99373	11.72	98007	98007	12.61	96641	96641	13.59
		80	69	130363	83132	8.50	125235	81104	9.79	117599	77390	10.62	110529	73876	11.51	108594	73079	12.27	107000	72510	13.08
		80	67	125593	89811	8.50	120822	88022	9.79	113637	84266	10.71	106886	80705	11.63	105065	80022	12.49	103471	79339	13.38
		80	65	121180	96371	8.45	116409	94463	9.79	109324	90676	10.71	102902	86966	11.72	101195	86283	12.61	99715	85714	13.55
		80	63	116170	107463	8.50	111519	105436	9.74	104429	100933	10.66	97894	96641	11.68	96186	94479	12.57	94251	94251	13.55
		78	69	130244	76691	8.50	125116	74664	9.79	117483	71096	10.66	110415	67729	11.51	108480	66932	12.27	106886	66363	13.08
		78	67	125473	83490	8.50	120702	81582	9.79	113520	77972	10.71	106772	74559	11.63	104951	73876	12.49	103357	73306	13.42
		78	65	121299	90050	8.45	116289	88022	9.79	109208	84383	10.71	102788	80819	11.72	101081	80136	12.61	99601	79681	13.55
		78	63	116051	101023	8.50	111399	98876	9.74	104429	94639	10.66	97894	90495	11.68	95731	89470	12.57	93682	88560	13.55
		76	69	129886	70012	8.50	124758	67985	9.79	117133	64569	10.66	110073	61354	11.51	108252	60671	12.31	106545	59988	13.12
		76	67	125116	76691	8.50	120464	74902	9.79	113171	71445	10.71	106431	68184	11.63	104610	67501	12.53	103130	66932	13.42
		76	65	121299	83609	8.45	115932	81343	9.79	108975	77739	10.71	102447	74445	11.72	100739	73762	12.61	99260	73193	13.55
		76	63	115812	94344	8.50	111161	92197	9.74	104080	87996	10.66	97666	84120	11.68	95731	83210	12.57	93796	82299	13.55
		80.6	66.2	123699	94417	8.50	118917	92644	9.71	111753	88810	10.71	105422	85200	11.63	103591	84742	12.49	106457	82231	13.97
		82	69	132987	95298	8.54	127620	93270	9.79	119814	89161	10.57	112464	85259	11.38	110529	84462	12.10	108594	83779	12.87
		82	67	128455	103408	8.50	123446	101381	9.79	115851	97203	10.66	108821	93227	11.59	107000	92544	12.40	105293	91974	13.25
		82	65	123804	110803	8.45	118913	108895	9.79	111772	104662	10.71	105179	100626	11.68	103357	99943	12.57	101764	99373	13.51
		82	63	120583	117244	8.45	115932	115932	9.79	109441	109441	10.71	103471	103471	11.72	101991	101991	12.57	100739	100739	13.51
		80	69	132987	87903	8.54	127620	85875	9.79	119697	81935	10.57	112464	78201	11.38	110529	77404	12.10	108594	76721	12.87
		80	67	128455	95894	8.50	123446	93986	9.79	115851	89860	10.66	108821	86169	11.59	107000	85372	12.40	105293	84803	13.25
		80	65	123804	103289	8.45	119033	101500	9.79	111772	97436	10.71	105179	93568	11.68	103357	92885	12.57	101764	92316	13.51
		80	63	118794	115335	8.45	114023	112234	9.79	106993	106993	10.71	101081	101081	11.72	99601	99601	12.61	98235	98235	13.59
	3900	78	69	132868	80627	8.54	127501	78600	9.79	119581	74825	10.57	112350	71371	11.38	110415	70574	12.10	108594	69891	12.87
		78	67	128336	88619	8.50	123326	86710	9.79	115735	82867	10.66	108707	79226	11.59	106886	78429	12.40	105293	77860	13.25
		78	65	123684	96133	8.45	118913	94224	9.79	111655	90327	10.71	105065	86624	11.68	103244	85941	12.57	101650	85372	13.51
		78	63	118675	108060	8.45	113785	105794	9.74	105944	101049	10.71	99260	96528	11.72	97780	95731	12.61	96414	94934	13.59
		76	69	132510	73113	8.54	127143	71086	9.79	119231	67483	10.62	112009	64200	11.38	110073	63403	12.14	108366	62834	12.91
		76	67	127978	81104	8.50	123088	79196	9.79	115385	75525	10.66	108480	72054	11.59	106545	71257	12.40	104951	70688	13.29
		76	65	123326	88499	8.45	118556	86710	9.79	111306	82984	10.71	104723	79453	11.68	103016	78770	12.57	101422	78201	13.51
		76	63	118317	100426	8.45	113427	98160	9.74	105944	93823	10.71	98690	89470	11.68	96755	88787	12.61	95276	88218	13.55
		80.6	66.2	126519	100812	8.50	121500	98921	9.71	113931	94706	10.66	107331	90968	11.59	105499	90407	12.40	108331	87894	13.84

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

150K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																			
				85.00			95.00			105.00			115.00			118.40			125.00				
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW		
HY-3IDH150GC2+HY_3ODH150GC2	4400	82	69	163539	111795	10.91	156418	109066	12.27	145161	103620	13.04	133690	97858	13.85	129268	96044	14.72	124619	94116	15.62		
		82	67	157487	119865	10.75	150603	117254	12.12	139823	111742	12.93	128928	106136	13.75	124619	104321	14.62	120083	102507	15.52		
		82	65	153214	128648	10.67	145025	124969	12.00	134717	119401	12.82	124052	113620	13.64	119970	112032	14.48	115774	110218	15.41		
		82	63	148467	137549	10.56	141821	134463	11.92	131352	128103	12.71	120310	120310	13.54	116908	116908	14.41	113393	113393	15.34		
		80	69	163420	103725	10.91	156418	100995	12.27	145161	95729	13.04	133577	90147	13.85	129154	88333	14.72	124505	86519	15.62		
		80	67	157487	111795	10.75	150603	109184	12.12	139823	103852	12.93	128928	98425	13.75	124619	96611	14.62	120083	94796	15.52		
		80	65	153451	120696	10.67	145263	117017	12.00	134717	111510	12.82	124052	105909	13.64	119970	104321	14.48	115774	102621	15.41		
		80	63	145975	133751	10.52	139329	130665	11.88	129032	124390	12.67	118722	118042	13.50	114300	114300	14.37	110785	110785	15.27		
		78	69	163183	95892	10.87	156181	93281	12.23	144929	88071	13.04	133350	82777	13.85	129041	80963	14.72	124392	79035	15.62		
		78	67	157249	104081	10.75	150366	101352	12.12	139707	96310	12.93	128814	90941	13.75	124505	89127	14.58	119970	87313	15.52		
		78	65	153214	112745	10.67	145381	109422	12.00	134485	103968	12.78	123938	98538	13.61	119856	96838	14.48	115661	95137	15.41		
		78	63	145856	125918	10.52	139210	122832	11.84	129032	116732	12.67	118496	110445	13.50	114073	108290	14.34	109311	106022	15.24		
		76	69	162708	87822	10.87	155706	85093	12.23	144464	80181	13.04	133010	74953	13.85	128588	73138	14.68	123938	71324	15.59		
		76	67	156774	95892	10.75	149891	93163	12.12	139243	88303	12.89	128361	83117	13.75	124165	81416	14.58	119629	79488	15.48		
		76	65	152739	104437	10.64	145500	101470	12.00	134137	95846	12.78	123485	90714	13.61	119516	89013	14.48	115321	87313	15.38		
		76	63	145500	117729	10.48	138854	114644	11.84	128684	108725	12.67	118269	102734	13.50	114073	100693	14.34	109311	98425	15.24		
		80.6	66.2	155112	117528	10.75	148229	114917	12.02	137506	109452	12.93	127162	103907	13.75	122871	102308	14.62	123548	98251	16.20		
		82	69	167337	118916	10.99	159741	115949	12.35	148062	110118	13.12	136185	104208	13.92	131536	102280	14.75	126433	100126	15.66		
		82	67	161166	128292	10.83	153926	125562	12.19	142956	119865	13.00	131422	113620	13.82	127000	111805	14.65	122351	109991	15.55		
		82	65	155232	137192	10.71	148348	134582	12.08	137618	128684	12.86	126660	122578	13.68	122464	120877	14.55	118382	118382	15.45		
		82	63	151553	147280	10.64	144551	142296	12.00	134369	134369	12.78	124732	124732	13.64	121217	121217	14.51	117475	117475	15.45		
		80	69	167337	109896	10.99	159741	106929	12.35	148062	101415	13.12	136185	95590	13.92	131536	93663	14.75	126433	91621	15.66		
		80	67	161166	119272	10.83	153926	116424	12.19	142956	110930	13.00	131422	105002	13.82	127000	103188	14.65	122351	101260	15.55		
		80	65	155232	128173	10.71	148348	125443	12.08	137618	119749	12.86	126660	113846	13.68	122464	112146	14.55	118042	110331	15.45		
		80	63	149298	143245	10.60	142533	140159	11.92	131701	131701	12.75	122011	122011	13.57	118496	118496	14.44	114867	114867	15.38		
	5200	78	69	167099	101114	10.99	159504	98147	12.31	147830	92829	13.12	135958	87199	13.92	131422	85271	14.75	126206	83230	15.66		
		78	67	160928	110490	10.83	153807	107641	12.19	142724	102344	13.00	131196	96611	13.78	126773	94796	14.65	122124	92869	15.55		
		78	65	155113	119391	10.71	148111	116661	12.08	137386	111162	12.86	126546	105455	13.68	122351	103754	14.55	117929	101940	15.45		
		78	63	149179	134344	10.56	142296	131259	11.92	131352	124738	12.75	120083	117475	13.54	116454	115661	14.41	112259	112259	15.31		
		76	69	166506	91976	10.95	159029	89009	12.31	147365	83894	13.12	135504	78468	13.89	131082	76654	14.75	125979	74613	15.66		
		76	67	160453	101233	10.83	153333	98503	12.19	142260	93409	12.97	130855	87879	13.78	126433	86065	14.65	121784	84138	15.55		
		76	65	154638	110134	10.71	147755	107523	12.04	137038	102227	12.86	126093	96724	13.68	122011	94910	14.55	117588	93209	15.45		
		76	63	148823	125206	10.56	141940	122002	11.92	131004	115804	12.71	119629	109311	13.54	115094	107270	14.37	111012	105682	15.27		
		80.6	66.2	158736	125389	10.83	151500	122537	12.10	140587	116912	13.00	129622	110850	13.82	125218	109273	14.65	125882	104950	16.24		

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

180K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH180GC2 + HY-3 ODH180GC2	5200	82	69	204325	144341	13.76	194602	140553	15.26	182184	134919	16.30	168985	128874	17.48	162795	126398	18.54	155367	123179	19.68
		82	67	197506	155959	13.62	188161	152171	15.13	176182	146673	16.17	163166	140635	17.36	157100	138035	18.42	150539	135312	19.56
		82	65	190813	166567	13.45	181973	163157	14.95	170430	157676	16.00	157843	151653	17.24	151777	149177	18.30	145587	145587	19.48
		82	63	185383	178438	13.31	175659	172881	14.82	165054	165054	15.88	154624	154624	17.16	149796	149796	18.26	144597	144597	19.44
		80	69	204199	133607	13.76	194475	129819	15.26	182184	124415	16.30	168861	118351	17.48	162671	115875	18.54	155367	112780	19.68
		80	67	197506	145099	13.62	188161	141310	15.13	176182	135919	16.17	163166	129988	17.36	157100	127389	18.42	150539	124665	19.56
		80	65	190813	155833	13.45	181973	152423	14.95	170430	147048	16.00	157843	141006	17.24	151777	138530	18.30	145463	135931	19.48
		80	63	182226	173386	13.27	173765	169471	14.77	162428	161177	15.83	151282	151282	17.08	146454	146454	18.17	141378	141378	19.35
		78	69	203947	123126	13.76	194223	119337	15.26	181934	114037	16.30	168613	108076	17.48	162424	105600	18.54	155367	102629	19.68
		78	67	197380	134617	13.62	187909	130955	15.08	175932	125541	16.17	163043	119713	17.36	156853	117113	18.42	150291	114390	19.56
		78	65	190561	145351	13.45	181721	141816	14.95	170305	136669	16.00	157719	130731	17.24	151653	128255	18.30	145339	125655	19.48
		78	63	182100	162905	13.27	173639	158864	14.77	161928	152424	15.83	149672	146206	17.04	144101	143730	18.13	138530	138283	19.31
		76	69	203315	111887	13.76	193718	108098	15.26	181309	103033	16.30	168118	97553	17.48	161805	94953	18.54	155119	92106	19.68
		76	67	196749	123757	13.58	187404	119969	15.08	175432	114787	16.13	162547	109066	17.32	156357	106467	18.42	149920	103743	19.56
		76	65	190056	134365	13.45	181216	130829	14.95	169805	125791	16.00	157224	119961	17.20	151282	117485	18.30	144844	114885	19.44
		76	63	181595	151918	13.27	173134	147877	14.73	161928	141921	15.83	149177	135312	17.04	143606	133083	18.13	137664	130607	19.31
		80.6	66.2	194529	152540	13.62	185196	148730	15.01	173262	143248	16.17	160931	137228	17.36	154896	134901	18.42	154883	129208	20.42
	6000	82	69	208367	153686	13.89	198390	149771	15.35	185685	144047	16.38	170842	137292	17.52	164157	134693	18.58	157348	132464	19.72
		82	67	201547	167072	13.71	191823	163284	15.22	179308	157426	16.26	166014	151158	17.44	159700	148558	18.50	153015	145711	19.64
		82	65	194981	179700	13.54	185636	175912	15.04	173556	170180	16.09	161186	159329	17.32	155243	155243	18.38	149672	149672	19.56
		82	63	189172	188919	13.40	181468	181468	14.95	171306	171306	16.05	160319	160319	17.28	155119	155119	18.38	149672	149672	19.56
		80	69	208367	141689	13.89	198264	137648	15.35	185560	132043	16.38	170966	125532	17.56	164033	122808	18.58	157348	120580	19.72
		80	67	201547	154823	13.71	191823	151034	15.22	179308	145297	16.26	166014	139149	17.44	159700	136550	18.50	153015	133702	19.64
		80	65	194981	167451	13.54	185636	163789	15.04	173556	158051	16.09	160567	151777	17.28	154377	149301	18.34	147815	146577	19.52
		80	63	186141	183868	13.36	177680	177680	14.86	167554	167554	15.96	156853	156853	17.20	151777	151777	18.30	146330	146330	19.48
		78	69	207988	129819	13.85	198011	125904	15.35	185310	120289	16.38	170966	114142	17.56	164033	111419	18.58	157100	108943	19.72
		78	67	201295	143078	13.71	191571	139164	15.17	179183	133543	16.21	165890	127512	17.40	159576	124913	18.46	152891	122065	19.64
		78	65	194854	155707	13.54	185383	151918	15.04	173306	146297	16.09	160443	140264	17.28	154253	137664	18.34	147692	134940	19.52
		78	63	185636	174018	13.36	175786	169471	14.82	164929	163928	15.88	153386	153386	17.12	148311	148311	18.22	142987	142987	19.39
		76	69	207356	117569	13.85	197380	113654	15.35	184685	108285	16.38	170842	102381	17.52	163909	99658	18.58	156481	96810	19.72
		76	67	200663	130703	13.67	191066	126914	15.17	178683	121414	16.21	165395	115504	17.40	159081	112904	18.46	152396	110057	19.60
		76	65	194223	143205	13.54	185004	139542	15.04	172931	134044	16.09	159948	128131	17.28	153758	125532	18.34	147320	122808	19.52
		76	63	185636	162021	13.36	175659	157222	14.82	164178	151799	15.88	152148	145958	17.08	146330	143606	18.17	140140	140140	19.35
		80.6	66.2	198509	162762	13.71	188800	158964	15.10	176336	153132	16.26	163740	146900	17.44	157460	144603	18.50	157431	138575	20.51

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

216K

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH216GC2 +HY-3IDH216GC2	6300	82	69	243571	172178	16.25	233228	168015	18.19	216255	159332	19.37	198659	150162	20.61	192073	147527	21.85	185367	144773	23.18
		82	67	235372	185674	16.15	225281	181638	18.09	208755	172610	19.27	191594	163334	20.51	185367	160699	21.75	178661	157945	23.09
		82	65	226795	197910	16.05	217335	194126	17.99	201624	185150	19.18	185127	175667	20.42	178901	173153	21.66	172434	170399	22.99
		82	63	220614	212289	16.00	210145	206865	17.88	195477	195477	19.13	180338	180338	20.38	175308	175308	21.62	170039	170039	22.99
		80	69	243445	159564	16.25	233102	155401	18.19	216009	146915	19.37	198419	138187	20.61	191953	135553	21.85	185247	132679	23.18
		80	67	235246	172808	16.15	225281	168898	18.09	208755	160193	19.27	191594	151239	20.51	185247	148605	21.75	178541	145731	23.09
		80	65	226669	185170	16.05	217335	181512	17.99	201624	172733	19.18	185127	163693	20.42	178901	161058	21.66	172434	158304	22.99
		80	63	216704	206109	15.95	207496	201820	17.88	192035	191789	19.08	176386	176386	20.33	171476	171476	21.57	166207	166207	22.95
		78	69	243067	147202	16.25	232724	143040	18.19	215763	134990	19.37	198180	126572	20.61	191713	123817	21.85	184888	121063	23.18
		78	67	234994	160447	16.15	225029	156537	18.09	208509	148145	19.27	191354	139504	20.51	185008	136870	21.75	178302	133996	23.09
		78	65	226417	172808	16.05	217083	169150	17.99	201379	160685	19.18	184888	151958	20.42	178661	149323	21.66	172195	146569	22.99
		78	63	216452	193747	15.95	207370	189332	17.88	192158	179864	19.08	174829	168962	20.29	169081	166686	21.57	163334	163334	22.90
		76	69	242310	133453	16.25	231967	129417	18.19	215025	121712	19.37	197461	114357	20.61	190995	111723	21.85	184169	108969	23.18
		76	67	234111	147581	16.15	224272	143671	18.09	207772	135605	19.27	190755	127290	20.51	184409	124656	21.75	177823	121901	23.09
		76	65	225786	159816	16.05	216326	156158	17.99	200764	148145	19.18	184409	139624	20.42	178182	137109	21.66	171716	134355	22.99
		76	63	215947	180755	15.95	206739	176466	17.83	191666	167324	19.08	174709	156987	20.29	168602	154353	21.52	162495	151838	22.86
		80.6	66.2	231700	181670	16.15	221731	177766	17.95	205295	168831	19.27	188969	159663	20.51	182648	157369	21.75	183694	151042	24.10
		82	69	248617	183278	16.31	238021	178989	18.24	220435	169783	19.47	202131	160220	20.65	194468	157107	21.89	186804	154113	23.22
		82	67	240166	198793	16.20	229822	194630	18.14	212812	185150	19.32	195186	175428	20.56	188720	172674	21.80	181774	169800	23.13
		82	65	231967	213298	16.10	222128	209388	18.04	205682	199780	19.22	188480	188480	20.47	182972	182972	21.75	176386	176386	23.09
		82	63	225155	225155	16.05	216326	216326	17.99	201993	201993	19.18	187163	187163	20.47	181894	181894	21.71	176386	176386	23.04
		80	69	248491	169024	16.31	237769	164735	18.24	220312	155890	19.42	202012	146809	20.65	194587	143695	21.89	186924	140821	23.22
		80	67	240166	184413	16.20	229822	180250	18.14	212689	171135	19.32	195186	161657	20.56	188600	159023	21.80	181774	156149	23.13
		80	65	231841	198919	16.10	222128	195135	18.04	205682	185765	19.22	188480	176027	20.47	182134	173392	21.71	175428	170518	23.04
		80	63	221371	221119	16.00	211659	211659	17.94	197567	197567	19.13	182972	182972	20.42	177823	177823	21.66	172315	172315	22.99
	7400	78	69	248112	155149	16.31	237517	150860	18.24	219943	142367	19.42	201652	133517	20.65	194707	130763	21.89	186924	127769	23.22
		78	67	239787	170538	16.20	229444	166375	18.14	212443	157611	19.32	194947	148485	20.56	188361	145731	21.80	181535	142857	23.13
		78	65	231588	185044	16.10	221876	181133	18.04	205436	172118	19.22	188241	162735	20.47	181894	160100	21.71	175188	157346	23.04
		78	63	221497	207622	16.00	210397	201946	17.88	194494	192404	19.08	179499	179499	20.38	173632	173632	21.62	168243	168243	22.95
		76	69	247229	140769	16.31	236634	136481	18.24	219205	128351	19.42	201173	119986	20.65	194228	117112	21.89	186804	114357	23.22
		76	67	239157	156032	16.20	228813	151869	18.14	211829	143473	19.32	194228	134714	20.56	187762	132080	21.80	180936	129206	23.13
		76	65	230832	170412	16.10	221119	166501	18.04	204821	157980	19.22	187762	148964	20.47	181415	146330	21.71	174709	143456	23.04
		76	63	220867	192864	16.00	210397	187693	17.88	193756	177897	19.08	177943	168962	20.33	171955	166447	21.57	165729	163813	22.90
		80.6	66.2	236545	193870	16.20	226200	189715	18.00	209164	180363	19.32	192512	170661	20.56	185954	168401	21.80	187020	161839	24.15

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

240K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)																	
				85.00			95.00			105.00			115.00			118.40			125.00		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH240GC2 + HY-3IDH240GC2	7000	82	69	267242	184458	18.20	254797	179458	20.40	240843	173986	22.11	225632	167498	24.00	219952	165048	25.04	207256	159591	27.41
		82	67	257686	197015	17.99	245796	192237	20.23	232834	187112	21.99	218059	180974	23.89	212602	178635	24.92	200129	173289	27.26
		82	65	250686	210905	17.91	237129	204127	20.11	224490	199238	21.83	210486	193447	23.74	205252	191219	24.77	193447	186208	27.14
		82	63	242796	225128	17.74	231351	219683	19.98	218483	213366	21.71	204027	204027	23.62	199572	199572	24.69	188769	188769	27.03
		80	69	266909	170457	18.15	254464	165679	20.40	240621	160302	22.11	225409	154134	24.00	219730	152018	25.04	207034	147118	27.41
		80	67	257575	184347	17.99	245685	179680	20.23	232722	174542	21.99	217948	168389	23.89	212491	165939	24.92	200017	160593	27.26
		80	65	250908	198571	17.91	236907	191459	20.11	224490	186667	21.83	210375	180862	23.74	205140	178635	24.77	193335	173512	27.14
		80	63	238685	219017	17.70	227351	213683	19.94	214923	207804	21.67	200908	200797	23.58	195451	195451	24.62	184537	184537	26.95
		78	69	266354	156567	18.15	254019	151789	20.40	240176	146397	22.11	224964	140324	24.00	219284	138097	25.04	206588	133531	27.37
		78	67	257131	171569	17.99	245241	167013	20.23	232277	161971	21.95	217614	156138	23.85	212045	153688	24.92	199683	148343	27.26
		78	65	251130	186792	17.91	236796	179458	20.11	224045	174319	21.83	210041	168500	23.74	204806	166273	24.77	193113	161261	27.14
		78	63	238351	206793	17.70	227128	201349	19.94	214701	195456	21.67	201020	188769	23.58	195229	185540	24.62	182644	178969	26.91
		76	69	265353	142122	18.15	253130	137344	20.40	239286	131935	22.11	224073	125846	23.97	218393	123507	25.04	205697	118941	27.37
		76	67	256131	157123	17.99	244352	152456	20.23	231387	147509	21.95	216834	141660	23.85	211266	139433	24.89	198904	134422	27.26
		76	65	250130	172569	17.86	236907	167346	20.11	223378	161526	21.83	209261	155693	23.74	204138	153466	24.77	192444	148454	27.11
		76	63	237685	193904	17.66	226462	188570	19.90	214033	182663	21.67	200352	175851	23.55	195117	173289	24.58	182087	166050	26.91
		80.6	66.2	253692	193801	17.99	241813	189115	20.08	228865	183953	21.99	214962	177768	23.89	209510	175725	24.92	205790	166446	28.46
		82	69	273354	196348	18.28	260242	190903	20.52	245849	185221	22.23	229976	178523	24.08	224184	176073	25.11	210375	169614	27.45
		82	67	264020	211016	18.11	251575	206127	20.36	237728	200573	22.07	222291	194115	23.97	216611	191665	25.00	203804	186096	27.34
		82	65	254797	224906	17.95	242685	220017	20.19	229607	214812	21.91	215052	208816	23.81	209484	206477	24.85	197345	197345	27.22
		82	63	248797	241685	17.86	235351	232795	20.07	223934	223934	21.83	210709	210709	23.74	206031	206031	24.81	195785	195785	27.18
		80	69	273132	181903	18.28	259909	176680	20.52	245515	171093	22.23	229753	164380	24.08	223850	161930	25.11	210597	156138	27.45
		80	67	263798	196793	18.11	251464	191792	20.36	237617	186334	22.07	222180	179748	23.97	216500	177298	25.00	203693	171841	27.34
		80	65	254686	210572	17.95	242574	205793	20.19	229496	200573	21.91	214941	194560	23.81	209372	192222	24.85	196899	186765	27.18
		80	63	244463	234907	17.78	232684	229351	20.02	219373	219262	21.75	206143	206143	23.66	201577	201577	24.73	191442	191442	27.11
	8200	78	69	272576	166013	18.28	259353	160901	20.48	245070	155630	22.19	229307	150236	24.08	223405	148231	25.11	210597	142774	27.45
		78	67	263353	183014	18.11	251019	178014	20.36	237172	172539	22.07	221846	166050	23.93	216055	163489	24.96	203359	158032	27.34
		78	65	254242	196793	17.95	242241	191903	20.19	229051	186779	21.91	214607	180639	23.81	209038	178301	24.85	196565	172955	27.18
		78	63	244130	221017	17.78	232462	215350	20.02	218928	208694	21.75	203247	200908	23.62	198458	198347	24.66	188101	188101	27.03
		76	69	271576	149567	18.24	258464	144455	20.48	244180	138832	22.19	228416	133531	24.08	222514	131637	25.11	209595	127183	27.45
		76	67	262353	167235	18.07	250019	162457	20.32	236393	157188	22.03	220955	151015	23.93	215275	148677	24.96	202579	143554	27.30
		76	65	253241	182236	17.95	241352	177458	20.19	228273	172206	21.91	213827	166162	23.81	208370	163823	24.85	195897	158477	27.18
		76	63	243463	206571	17.78	231684	200904	20.02	218928	194899	21.75	202468	185985	23.58	197456	184092	24.66	185762	179192	26.99
		80.6	66.2	259821	206885	18.11	247500	201863	20.20	233679	196381	22.07	219136	189760	23.97	213463	187754	25.00	209571	178104	28.54

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

COOLING PERFORMANCE DATA

300K

MODEL	CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPRATURE (°F)													
				85.00			95.00			105.00			115.00			118.40			125.00	
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
HY-3IDH300GC2+HY-3ODH300GC2	8800	82	69	307210	220371	20.57	293000	214619	22.80	276340	207649	25.00	257930	199575	27.45	251296	196652	28.52	236567	190356	30.98
		82	67	296271	236160	20.32	282963	230746	22.59	267331	224315	24.79	249385	216441	27.25	242864	213630	28.36	228359	207221	30.82
		82	65	285895	251159	20.11	273038	245971	22.39	257760	239517	24.59	240952	232182	27.09	234881	229596	28.16	220939	220939	30.62
		82	63	279354	270219	19.95	265821	263339	22.22	250665	250665	24.43	234993	234993	26.97	229933	229933	28.08	218352	218352	30.58
		80	69	306759	203341	20.57	292662	197815	22.80	276002	191434	24.95	257593	184172	27.45	250959	181248	28.52	236117	174727	30.98
		80	67	295933	220371	20.32	282625	215070	22.59	267106	208663	24.79	249160	200812	27.25	242751	198001	28.36	228247	191592	30.82
		80	65	285670	235370	20.07	272813	230295	22.39	257647	223865	24.59	240727	216553	27.09	234656	213967	28.16	220714	207896	30.62
		80	63	274505	262775	19.87	261873	256685	22.14	246949	246949	24.39	230608	230608	26.85	224874	224874	27.96	213518	213518	30.47
		78	69	306083	185635	20.53	291985	180221	22.80	275327	173754	24.95	256918	167194	27.41	250397	164945	28.52	235555	159773	30.98
		78	67	295369	205145	20.28	282061	199957	22.59	266431	193461	24.75	248710	185746	27.25	242302	182935	28.32	227797	176526	30.78
		78	65	284993	220032	20.07	272362	215070	22.39	257197	208775	24.59	240278	201374	27.05	234206	198788	28.16	220376	192717	30.62
		78	63	274166	247438	19.87	261535	241460	22.14	246837	234225	24.35	227910	223974	26.81	221950	220714	27.88	210032	210032	30.39
		76	69	304729	167252	20.49	290858	161838	22.76	274201	155399	24.95	255906	148754	27.41	249273	146505	28.48	234543	141558	30.94
		76	67	294128	186762	20.28	280933	181687	22.55	265417	175443	24.75	247698	168206	27.21	241290	165620	28.32	226898	159773	30.78
		76	65	284993	204920	20.07	271347	199055	22.34	256183	192785	24.55	239378	185521	27.05	233307	182935	28.12	219589	176976	30.62
		76	63	273264	231536	19.82	260633	225558	22.14	245936	218234	24.35	228247	208458	26.81	221163	204635	27.88	208121	199238	30.35
		80.6	66.2	291471	231672	20.32	278170	226362	22.42	262679	219914	24.79	245747	211997	27.25	239346	209678	28.36	234834	198575	32.18
		82	69	310707	227701	20.65	296158	221837	22.88	279155	214744	25.04	260404	206547	27.49	253658	203623	28.60	237129	195753	31.02
		82	67	299880	244956	20.40	286234	239543	22.67	270034	232761	24.83	251746	224649	27.29	245225	221838	28.40	230496	215429	30.86
		82	65	289391	261197	20.16	276196	255896	22.47	260688	249427	24.63	243538	241852	27.13	237242	237242	28.24	224087	224087	30.70
		82	63	281948	279805	19.99	268866	268866	22.30	254156	254156	24.51	239603	239603	27.05	234318	234318	28.16	222513	222513	30.66
		80	69	310256	210672	20.65	295820	205258	22.88	278818	198303	25.04	260067	190018	27.49	253320	187095	28.56	237467	179899	31.02
		80	67	299654	228265	20.40	286008	222852	22.67	269809	216095	24.83	251634	208008	27.29	245000	205197	28.40	230271	198676	30.86
		80	65	289166	244505	20.16	275971	239205	22.43	260575	232761	24.63	243313	225211	27.13	237129	222513	28.24	222737	216216	30.70
		80	63	277888	272813	19.91	265257	265257	22.22	250102	250102	24.43	234431	234431	26.93	229146	229146	28.04	217453	217453	30.58
	9200	78	69	309692	191725	20.61	295143	186311	22.88	278254	180398	25.04	259504	173940	27.49	252758	171129	28.56	237692	164608	31.02
		78	67	298978	212025	20.36	285444	206611	22.63	269358	199992	24.83	251072	191930	27.29	244550	189006	28.40	229821	182598	30.86
		78	65	288602	228265	20.16	275520	222964	22.43	260012	216545	24.63	242864	209020	27.13	236680	206322	28.20	222400	200025	30.66
		78	63	277437	256460	19.91	264580	250370	22.22	247963	241094	24.39	230945	230945	26.85	225548	225548	27.96	212618	212618	30.47
		76	69	308338	171988	20.57	293903	166349	22.84	277016	160579	25.00	258380	154151	27.45	251634	151902	28.52	236792	146843	30.98
		76	67	297737	193304	20.36	284204	188003	22.63	268345	181749	24.79	250172	174165	27.29	243651	171579	28.36	228922	165732	30.82
		76	65	287587	211235	20.11	274505	206048	22.43	258998	199541	24.63	241964	192155	27.09	235780	189456	28.20	221613	183272	30.66
		76	63	276535	239543	19.91	263678	233340	22.18	248301	225441	24.39	229371	215654	26.85	223525	213180	27.92	210145	207446	30.39
		80.6	66.2	295137	239971	20.40	281500	234553	22.50	265337	227747	24.83	248187	219594	27.29	241563	217299	28.40	236916	205916	32.23

LEGEND
TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW
DBT: Dry Bulb Temprature
WBT: Wet Bulb Temprature

ELECTRICAL DATA

Indoor:

MODEL	POWER SUPPLY		BLOWER MOTOR		MCA	MOCP
	V/PH/Hz	MIN VOLT	HP	FLA	AMPS	AMPS
HY-3IDH048FC1	220-240/1/50	225	0.75	5	10	15
HY-3IDH060GC1	415/3/50	390	1.3	2.7	10	15
HY-3IDH072GC1	415/3/50	390	1.3	2.7	10	10
HY-3IDH090GC1	415/3/50	390	1.3	2.7	10	15
HY-3IDH120GC2	415/3/50	390	2.6	4.8	10	15
HY-3IDH150GC2	415/3/50	390	2.6	4.8	10	15
HY-3IDH180GC2	415/3/50	390	5	7.3	10	15
HY-3IDH216GC2	415/3/50	390	5	7.3	10	15
HY-3IDH240GC2	415/3/50	390	5	7.3	10	15
HY-3IDH300GC2	415/3/50	390	7.5	10.5	14	25

Outdoor

MODEL	POWER SUPPLY		COMPRESSOR				CONDENSER MOTOR			MCA	MOCP
	V/PH/Hz	MIN VOLT	TYPE	RLA	LRA	QTY	HP	FLA	QTY	AMPS	AMPS
HY-3ODH048GC1	415/3/50	390	SCR	6.9	72	1	1/3	2	1	11	20
HY-3ODH060GC1	415/3/50	390	SCR	9.5	67.1	1	0.75	5.7	1	18	25
HY-3ODH072GC1	415/3/50	390	SCR	9.8	101.0	1	0.75	5.7	1	18	25
HY-3ODH090GC1	415/3/50	390	SCR	14.4	111.0	1	1/3	2	2	22	35
HY-3ODH120GC2	415/3/50	390	SCR	9.5	67.1	2	0.75	5.7	2	33	40
HY-3ODH150GC2	415/3/50	390	SCR	11.7	101.0	2	0.75	5.7	2	38	50
HY-3ODH180GC2	415/3/50	390	SCR	14.3	128.0	2	0.75	5.7	2	44	60
HY-3ODH216GC2	415/3/50	390	SCR	16.6	118.0	2	0.75	5.7	4	60	75
HY-3ODH240GC2	415/3/50	390	SCR	18.3	118.0	2	0.75	5.7	4	64	65
HY-3ODH300GC2	415/3/50	390	SCR	20.8	20.8	2	0.75	5.7	4	70	90

NOTE:
FLA - Full Load Amps. **LRA** - Lock Rotor Amps. **RLA** - Running Load Amps. **MCA** - Minimum Circuit Amps.
MOCP - Maximum Over Current Protection.

FAN PERFORMANCE DATA

048K - 180K

Fan Perfromance - Direct Drive Blower Motor Assembly

Model	Speed Tap	External Static Pressure (in.wg,)										
		0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
HY-3IDH048FC1	Low	1550	1488	1400	1257	1140	1169	-	-	-	-	-
	Med	1771	1700	1600	1437	1303	1336	-	-	-	-	-
	High	1959	1881	1800	1589	1441	1468	-	-	-	-	-

Fan Perfromance - Belt Drive Blower Motor Assembly

MODEL : HY-3IDH60GC1														
ESP(inch of WG)	0.2		0.25		0.4		0.6		0.8		1.0		1.2	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
1800	629	0.22	638	0.27	723	0.29	812	0.35	898	0.43				
2000	635	0.26	641	0.29	725	0.33	809	0.4	889	0.47	967	0.56	1043	0.65

MODEL : HY-3IDH72GC1														
ESP(inch of WG)	0.2		0.25		0.4		0.6		0.8		1.0		1.2	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2100	641	0.30	643	0.30	729	0.37	810	0.44	887	0.51	962	0.60	1035	0.69
2200	644	0.31	646	0.32	731	0.38	811	0.45	887	0.53	960	0.61	1031	0.70
2300	647	0.33	649	0.33	733	0.40	811	0.47	886	0.55	958	0.63	1027	0.72
2400	653	0.35	655	0.35	737	0.43	814	0.50	887	0.58	957	0.67	1025	0.75

MODEL : HY-3IDH090GC1														
ESP(inch of WG)	0.2		0.25		0.4		0.6		0.8		1.0		1.2	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2600	525	0.31	526	0.32	603	0.40	676	0.5	743	0.61				
2800	528	0.34	530	0.34	604	0.44	672	0.53	740	0.64				
3000	533	0.38	535	0.38	607	0.48	674	0.58	739	0.69	801	0.81	858	0.94

MODEL : HY-3IDH120GC2																		
ESP(inch of WG)	0.2		0.3		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
3500	548	0.50	582	0.55	617	0.60	681	0.71	741	0.82	798	0.94	854	1.07	907	1.22	959.5	1.36
3700	555	0.55	588	0.60	622	0.65	685	0.77	744	0.89	799	1.01	853	1.14	904	1.28	956	1.43
3900	562	0.60	595	0.66	628	0.71	690	0.83	747	0.96	802	1.08	854	1.22	904	1.36	953.5	1.50

MODEL : HY-3IDH150GC2																		
ESP(inch of WG)	0.2		0.3		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
4400	581	0.76	613	0.82	644	0.88	703	1.01	758	1.14	810	1.28	860	1.42	908	1.56	955	1.71
4600	590	0.84	621	0.90	651	0.96	709	1.09	764	1.23	815	1.37	864	1.51	911	1.66	957	1.81
4800	599	0.92	629	0.99	659	1.05	716	1.18	770	1.33	821	1.47	869	1.61	915	1.77	960	1.92
5000	608	1.00	638	1.07	667	1.14	723	1.27	776	1.42	826	1.56	873	1.71	919	1.87	963	2.02
5200	619	1.09	648	1.16	676	1.23	730	1.37	782	1.52	832	1.67	879	1.82	924	1.98	967	2.14

MODEL : HY-3IDH180GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
5200	552	0.67	633	0.86	710	1.07	784	1.32	856	1.59	928	1.89	1000	2.24		
5400	553	0.7	633	0.9	709	1.11	781	1.35	851	1.62	920	1.92	990	2.25	1059	2.63
5600	555	0.74	634	0.94	708	1.15	778	1.39	847	1.65	914	1.95	981	2.27	1048	2.63
5800	558	0.78	635	0.98	708	1.2	776	1.45	844	1.7	909	1.98	974	2.3	1038	2.64
6000	560	0.82	637	1.02	708	1.24	776	1.48	841	1.74	905	2.02	968	2.33	1030	2.67

Notes:
- Data includes losses for filters, unit casting & wet coil
- Shaded region indicates alternate drive requiremnet
- Blue value in RPM indicates Blower speed with factory settings

FAN PERFORMANCE DATA

216K - 300K

Fan Perfromance - Belt Drive Blower Motor Assembly

MODEL : HY-3IDH216GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
6300	564	0.89	637	1.10	710	1.32	775	1.56	839	1.82	901	2.10	961	2.405	1021	2.73
6400	565	0.91	641	1.12	710	1.35	775	1.59	838	1.85	899	2.12	959	2.43	1018	2.75
6600	568	0.96	643	1.17	711	1.4	776	1.64	838	1.9	898	2.18	956	2.48	1014	2.8
6800	572	1.01	646	1.23	713	1.46	777	1.71	838	1.97	897	2.25	954	2.54	1011	2.86
7000	575	1.06	648	1.28	715	1.52	778	1.77	838	2.03	896	2.31	952	2.6	1007	2.92
7200	578	1.11	650	1.34	717	1.58	779	1.83	838	2.1	895	2.38	951	2.67	1005	2.98
7400	582	1.17	653	1.40	719	1.64	780	1.9	839	2.17	895	2.45	950	2.74	1003	3.06

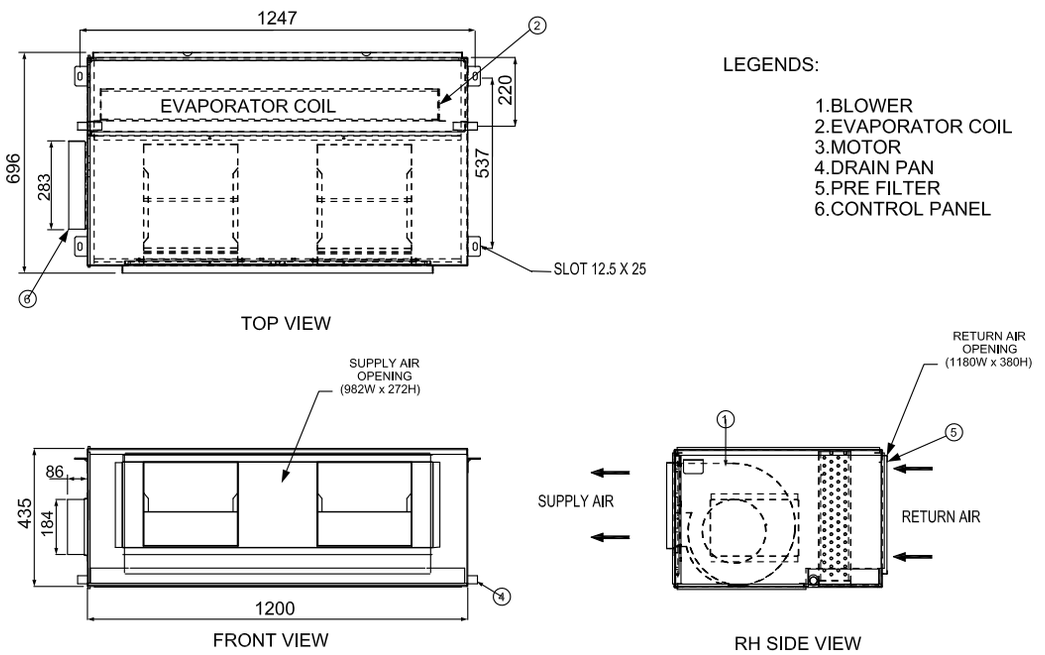
MODEL : HY-3IDH240GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
7000	575	1.06	648	1.28	715	1.52	778	1.77	838	2.03	896	2.31	952	2.6	1007	2.92
7200	578	1.11	650	1.34	717	1.58	779	1.83	838	2.10	895	2.38	951	2.67	1005	2.98
7400	582	1.17	653	1.40	719	1.64	780	1.90	839	2.17	895	2.45	950	2.74	1003	3.06
7600	586	1.23	656	1.47	721	1.72	782	1.98	840	2.25	896	2.53	950	2.83	1002	3.14
7800	589	1.29	659	1.53	724	1.78	784	2.04	841	2.32	896	2.60	950	2.90	1001	3.21
8000	593	1.35	662	1.60	726	1.85	786	2.12	843	2.40	897	2.68	950	2.98	1001	3.30
8200	597	1.42	666	1.67	729	1.93	788	2.20	845	2.48	899	2.77	951	3.07	1001	3.39

MODEL : HY-3IDH300GC2																
ESP(inch of WG)	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6	
Airflow(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
8800	610	1.64	676	1.90	738	2.17	796	2.45	851	2.74	903	3.04	954	3.35	1003	3.68
9000	614	1.72	680	1.98	740	2.26	799	2.55	853	2.84	905	3.14	955	3.46	1004	3.78
9200	619	1.80	684	2.07	745	2.35	802	2.64	856	2.94	907	3.24	957	3.56	1005	3.89

Notes:
- Data includes losses for filters, unit casting & wet coil
- Shaded region indicates alternate drive requiremnet
- Blue value in RPM indicates Blower speed with factory settings

GENERAL ARRANGEMENT DRAWINGS - INDOOR

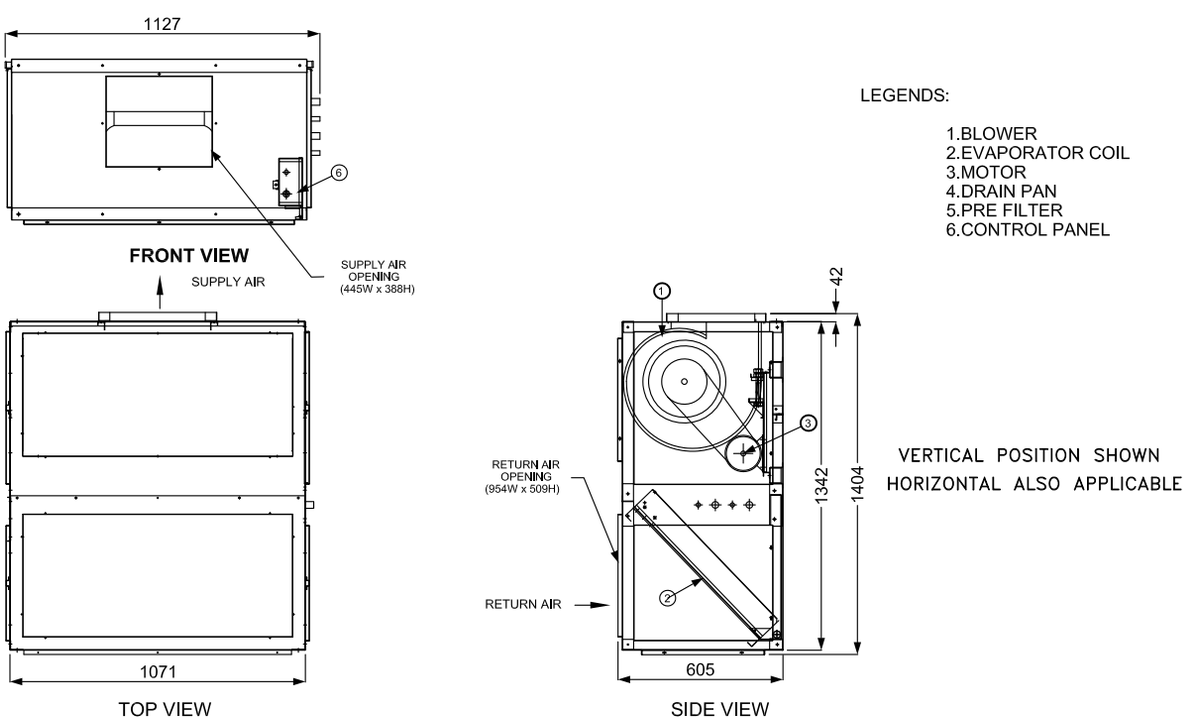
048K



LEGENDS:

1.BLOWER
2.EVAPORATOR COIL
3.MOTOR
4.DRAIN PAN
5.PRE FILTER
6.CONTROL PANEL

060K - 072K



LEGENDS:

1.BLOWER
2.EVAPORATOR COIL
3.MOTOR
4.DRAIN PAN
5.PRE FILTER
6.CONTROL PANEL

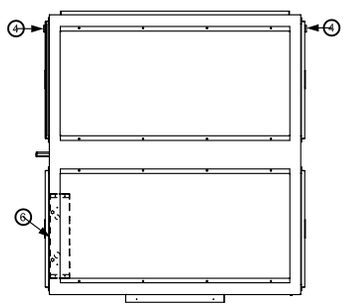
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HORIZONTAL ALSO APPLICABLE

GENERAL ARRANGEMENT DRAWINGS - INDOOR

090K - 120K

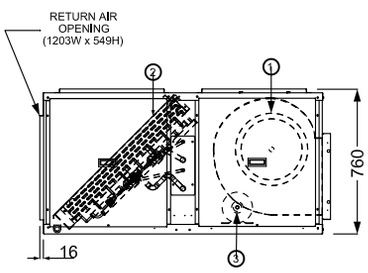
LEGENDS:

1.BLOWER
2.EVAPORATOR COIL
3.MOTOR
4.DRAIN PAN
5.PRE FILTER
6.CONTROL PANEL

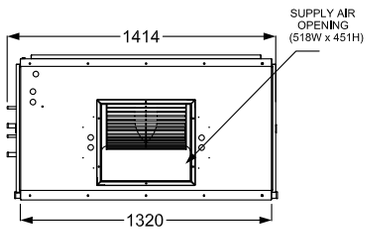


TOP VIEW

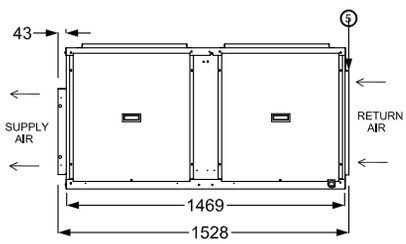
HORIZONTAL MOUNTING POSITION ONLY
VERTICAL ALSO APPLICABLE



LHS VIEW



FRONT VIEW

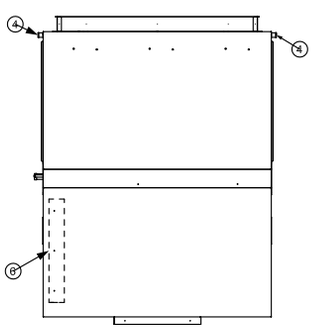


RHS VIEW

150K

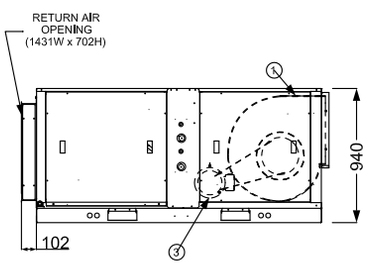
LEGENDS:

1.BLOWER
2.EVAPORATOR COIL
3.MOTOR
4.DRAIN PAN
5.PRE FILTER
6.CONTROL PANEL

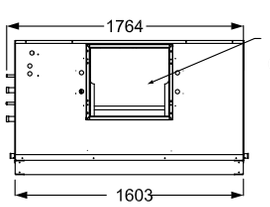


TOP VIEW

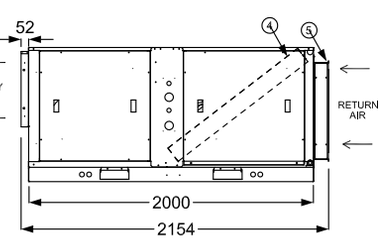
HORIZONTAL MOUNTING POSITION ONLY



LHS VIEW



FRONT VIEW



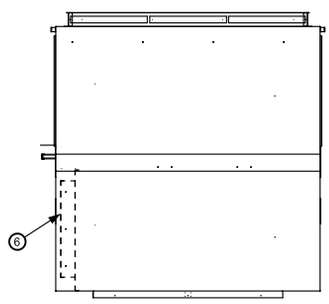
RHS VIEW

GENERAL ARRANGEMENT DRAWINGS - INDOOR

180K - 216K - 240K - 300K

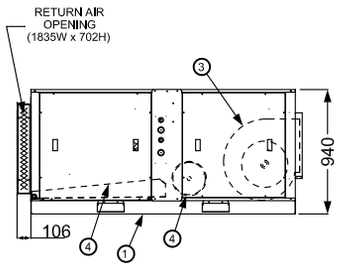
LEGENDS:

1.BLOWER
2.EVAPORATOR COIL
3.MOTOR
4.DRAIN PAN
5.PRE FILTER
6.CONTROL PANEL

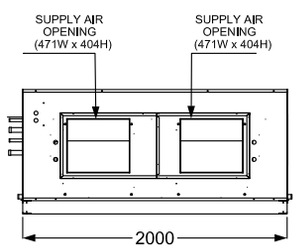


TOP VIEW

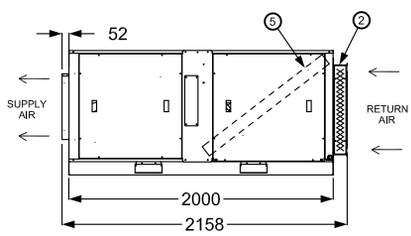
HORIZONTAL MOUNTING POSITION ONLY



LHS VIEW



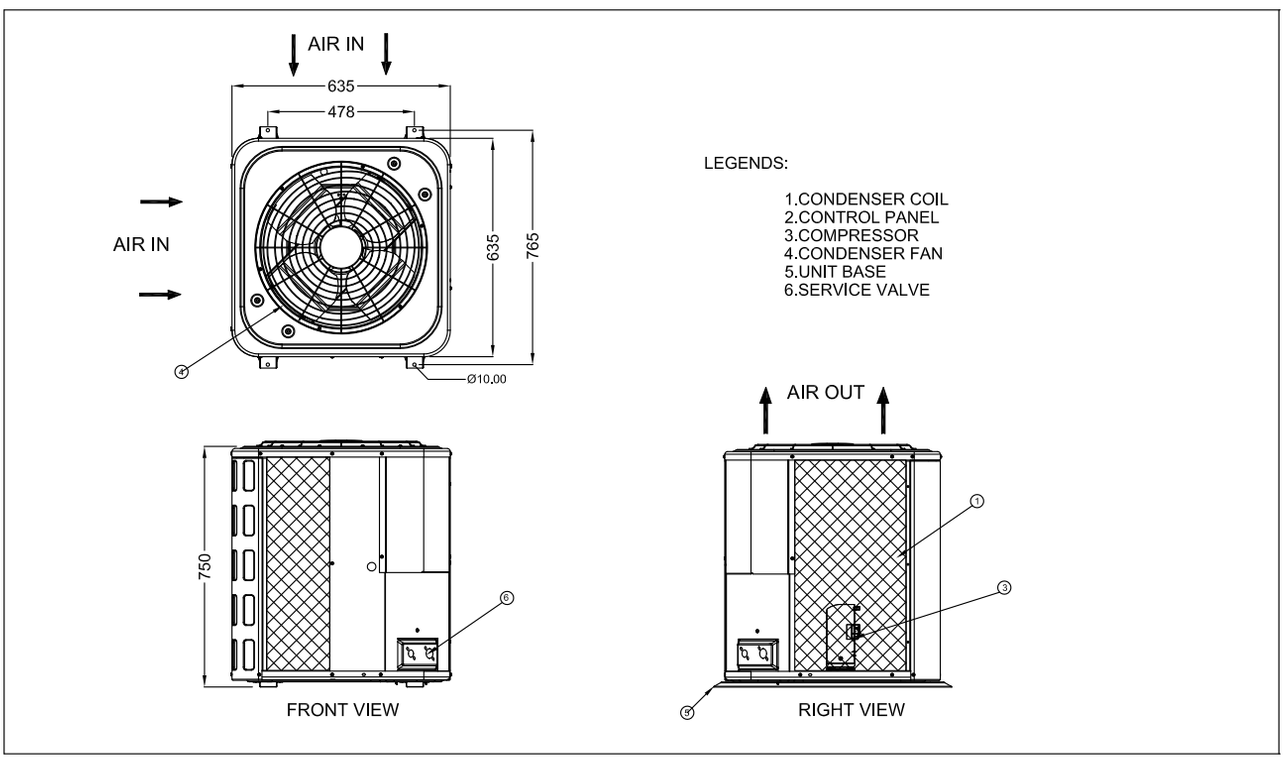
FRONT VIEW



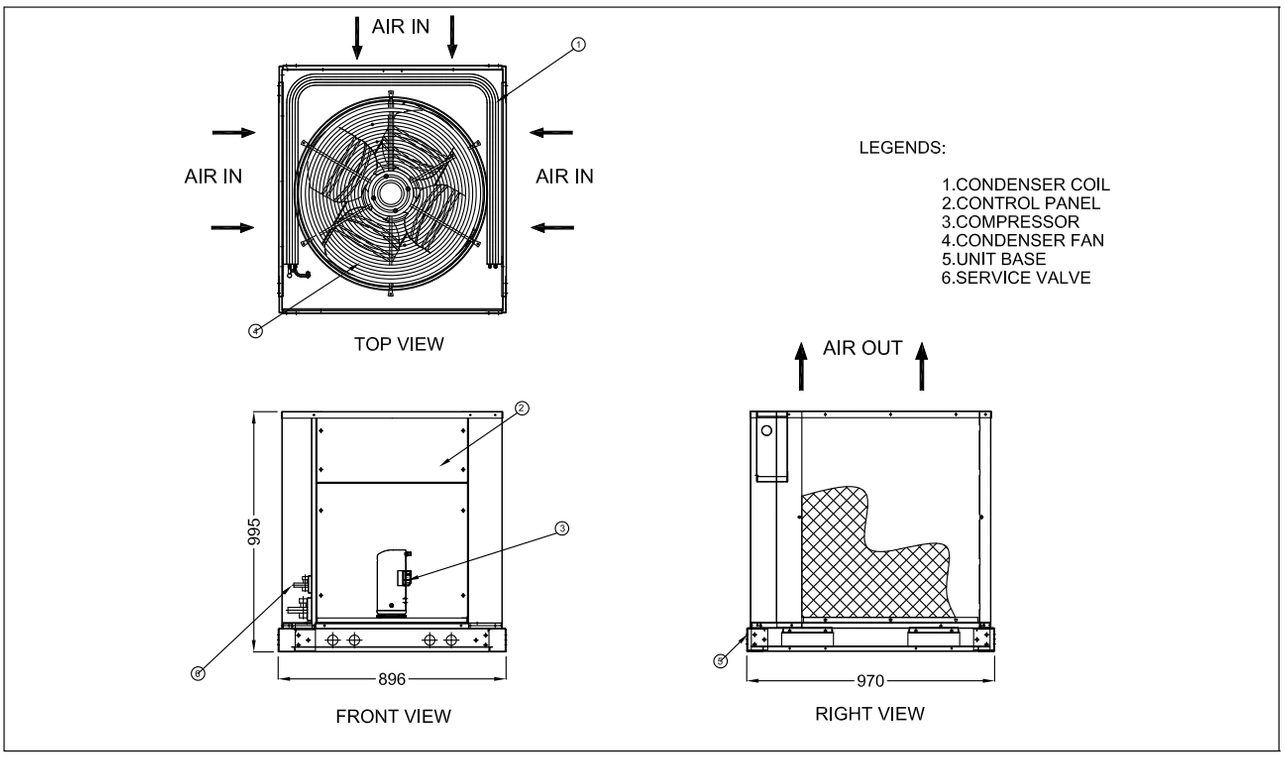
RHS VIEW

GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

048K



060K

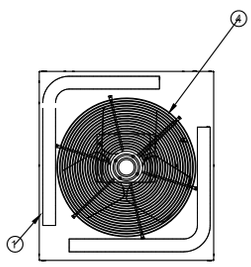


GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

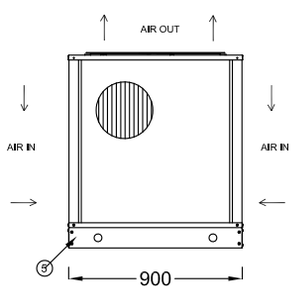
072K

LEGENDS:

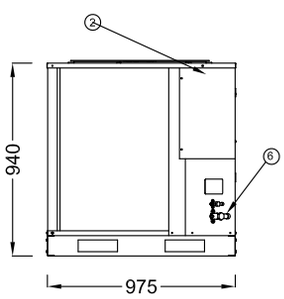
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



TOP VIEW



FRONT VIEW

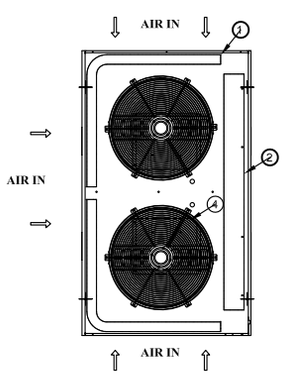


SIDE VIEW

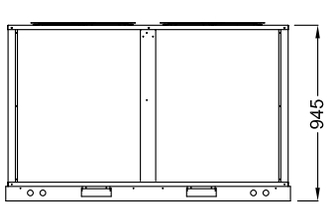
090K

LEGENDS:

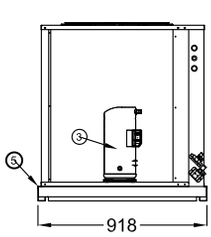
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



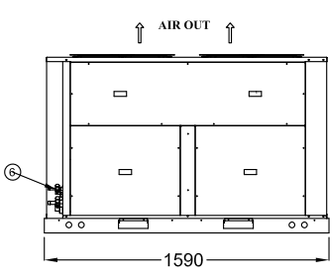
TOP VIEW



LHS VIEW



FRONT VIEW



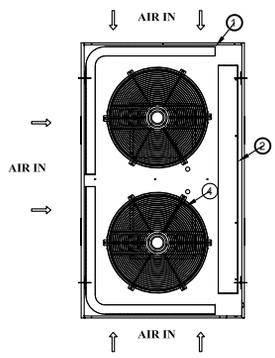
RHS VIEW

GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

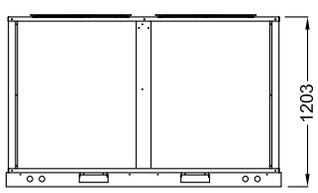
120K - 150K

LEGENDS:

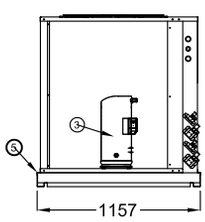
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



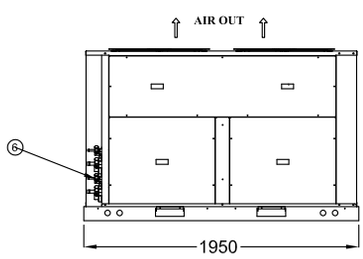
TOP VIEW



LHS VIEW



FRONT VIEW

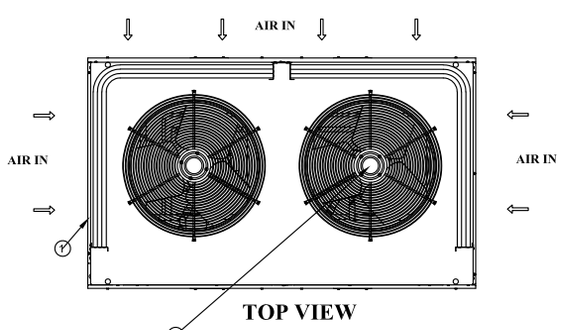


RHS VIEW

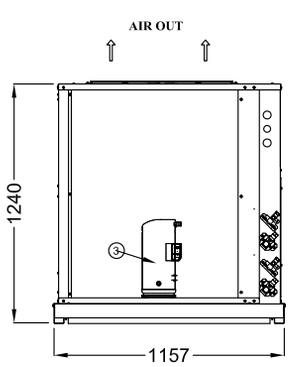
180K

LEGENDS:

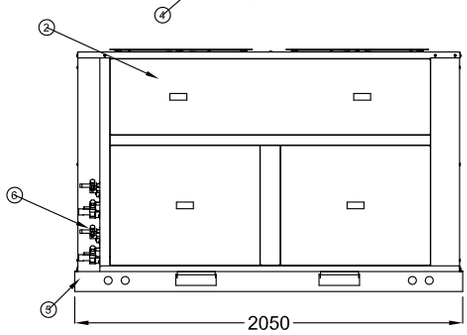
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



TOP VIEW



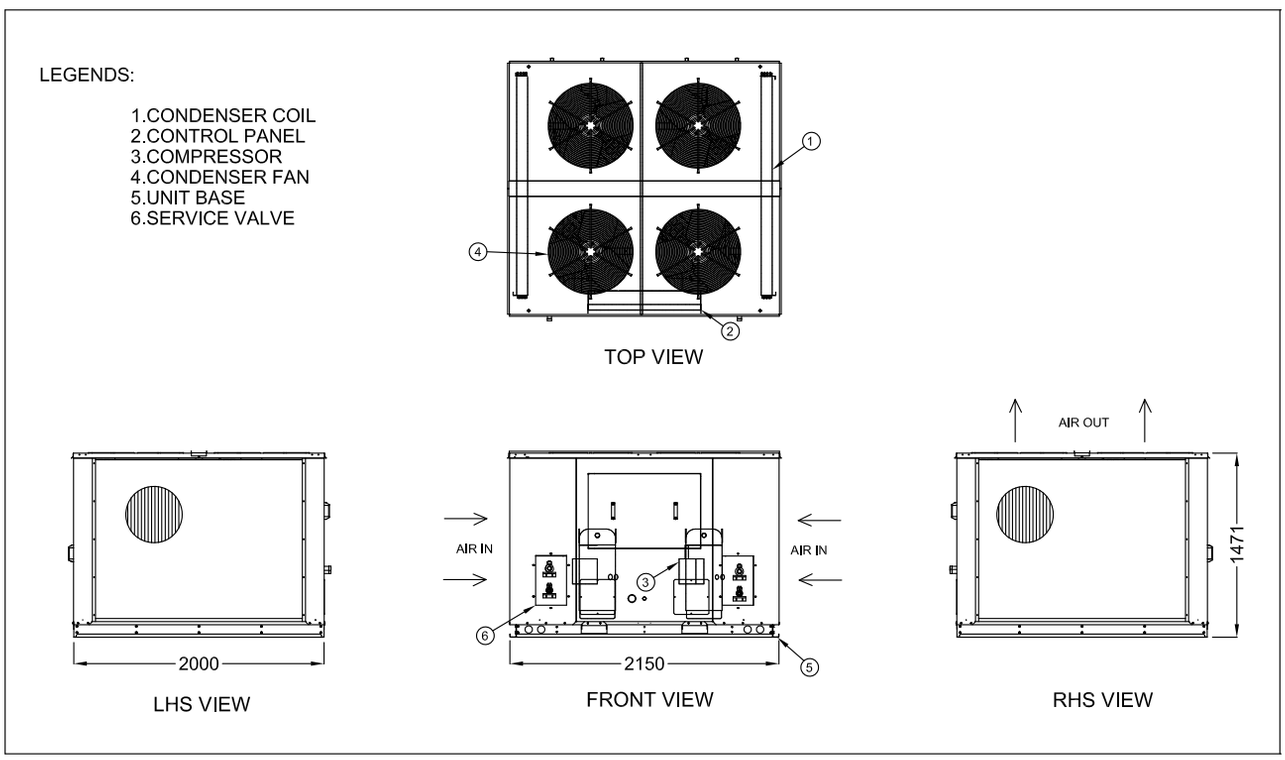
SIDE VIEW



FRONT VIEW

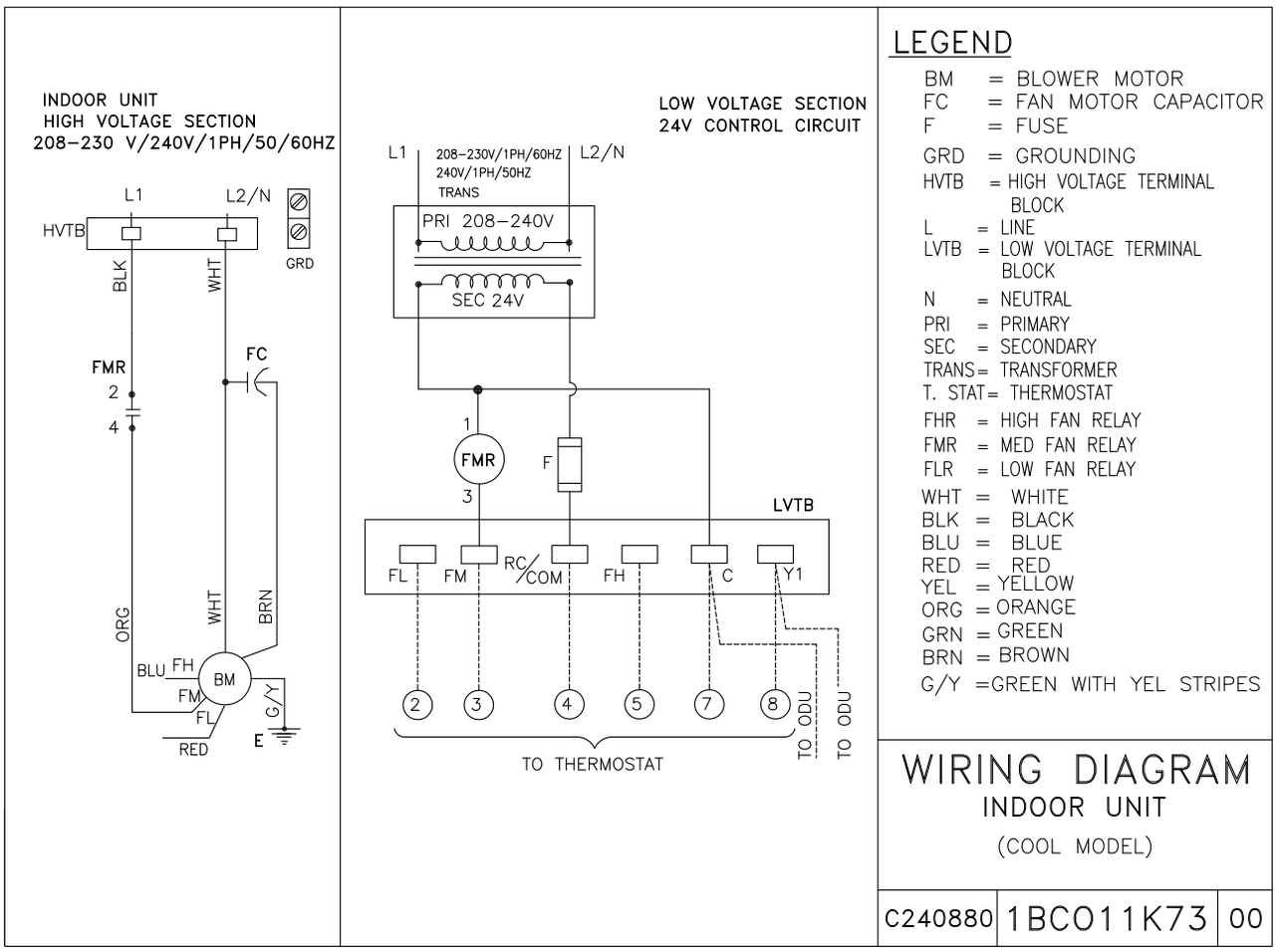
GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

216K - 240K - 300K



WIRING DIAGRAM - INDOOR

048K



LEGEND

BM = BLOWER MOTOR
FC = FAN MOTOR CAPACITOR
F = FUSE
GRD = GROUNDING
HVTB = HIGH VOLTAGE TERMINAL BLOCK
L = LINE
LVTB = LOW VOLTAGE TERMINAL BLOCK
N = NEUTRAL
PRI = PRIMARY
SEC = SECONDARY
TRANS = TRANSFORMER
T. STAT = THERMOSTAT
FHR = HIGH FAN RELAY
FMR = MED FAN RELAY
FLR = LOW FAN RELAY
WHT = WHITE
BLK = BLACK
BLU = BLUE
RED = RED
YEL = YELLOW
ORG = ORANGE
GRN = GREEN
BRN = BROWN
G/Y = GREEN WITH YEL STRIPES

WIRING DIAGRAM
INDOOR UNIT
(COOL MODEL)

C240880	1BC011K73	00

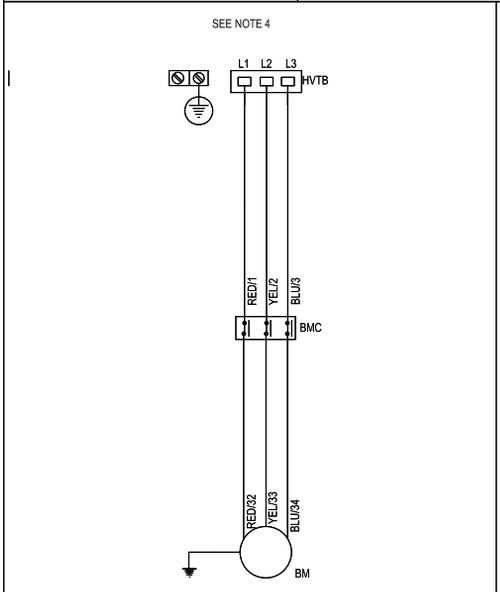
WIRING DIAGRAM - INDOOR

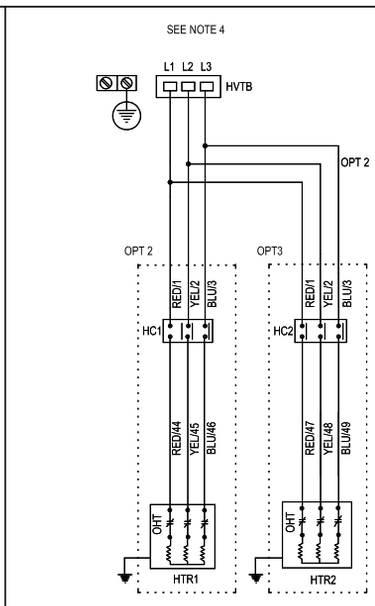
060K - 072K - 090K - 120K - 150K - 180K - 216K - 240K - 300K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208–230 V/3PH/60 Hz
380–415 V/3PH/50Hz WITH NEUTRAL WIRE
380/400 V/3PH/60Hz WITH NEUTRAL WIRE
REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY.

WIRING DIAGRAM FOR INDOOR UNITS

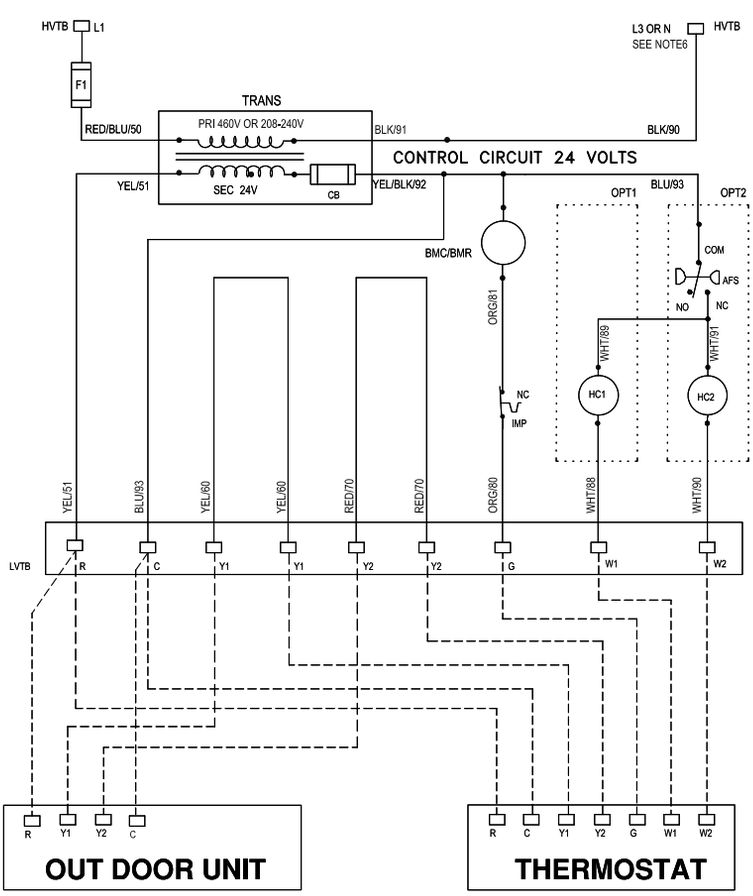
WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING ROOM THERMOSTAT TEMPERATURE BELOW 60°F WILL MAKE WARRANTY NULL AND VOID.





LEGEND

AFS	- AIR FLOW SWITCH
AI	- ANTI ICE
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
COM	- COMMON
F	- FUSE
HC	- HEATER CONTACTOR
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
IMP	- INTERNAL MOTOR PROTECTION
L	- LINE
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
. . . . .	- OPTIONAL MARKING
⊕	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
3) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
4) POWER CIRCUIT FOR 3 PHASE MOTOR OR 3 PHASE SINGLE STAGE OR TWO STAGE HEATING
   1) 208-230 V/3PH/60 Hz
   2) 380-415 V/3PH/50Hz WITH NEUTRAL WIRE
   3) 460 V/3PH/60Hz W/WO NEUTRAL WIRE
   4) 380/400 V/3PH/60Hz WITH NEUTRAL WIRE
5) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS
6) IF THE POWER SUPPLY IS 230V, CONNECT TO L3 IF THE POWER SUPPLY IS 380V, CONNECT TO N

OPTIONS

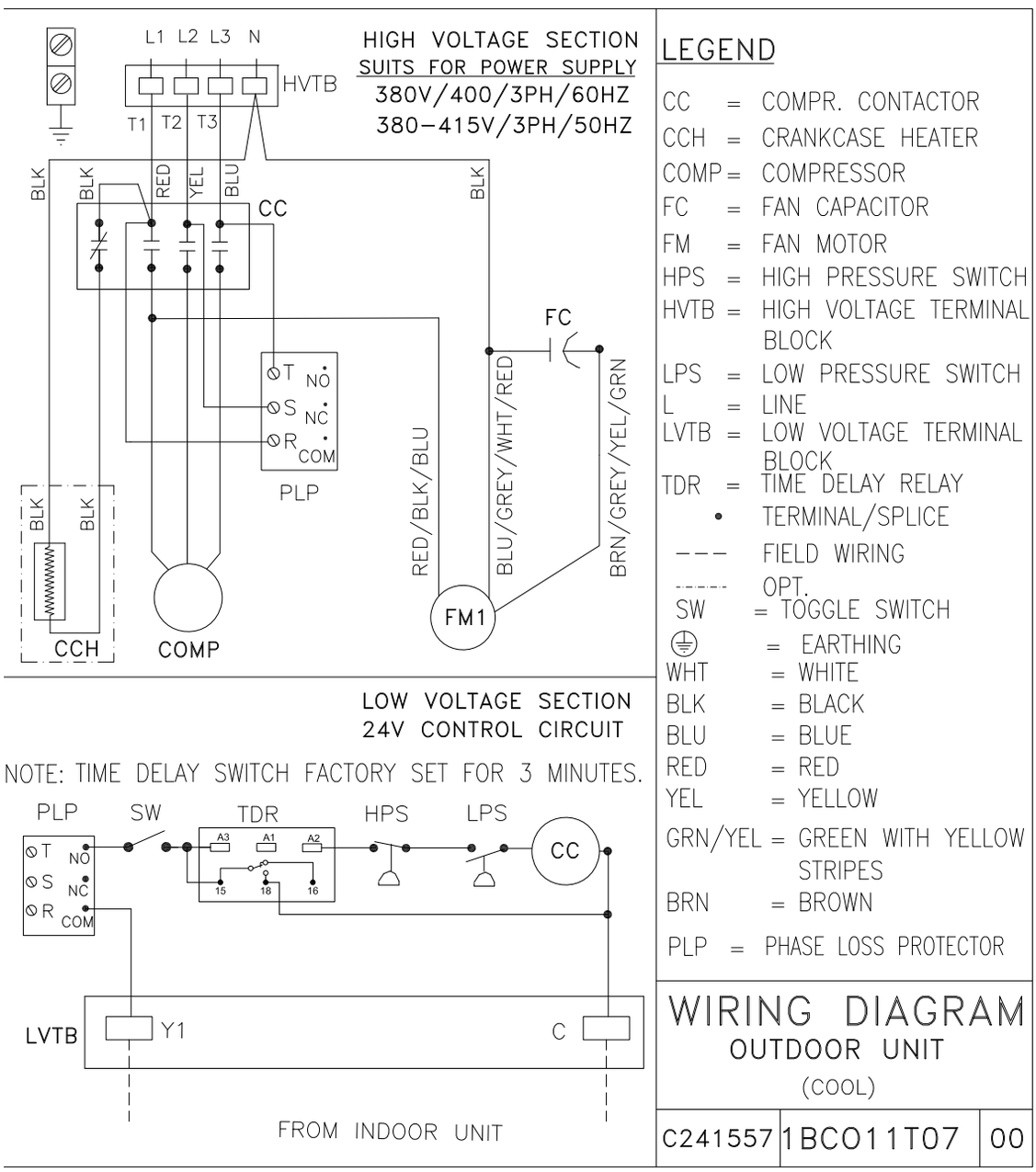
OPT. 1 - NIL
OPT. 2 - SINGLE STAGE HEATING
OPT. 3 - TWO STAGE HEATING

WIR–DIA–IDU–3PH–MTR

C240400	1BC011D43	02

WIRING DIAGRAM - OUTDOOR

048K



LEGEND

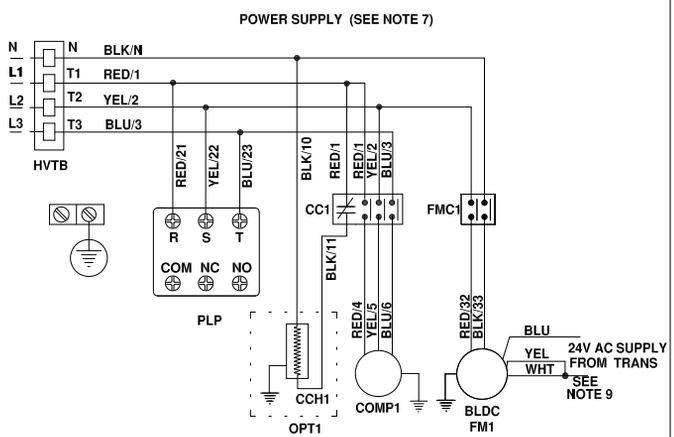
CC	=	COMPR. CONTACTOR
CCH	=	CRANKCASE HEATER
COMP	=	COMPRESSOR
FC	=	FAN CAPACITOR
FM	=	FAN MOTOR
HPS	=	HIGH PRESSURE SWITCH
HVTB	=	HIGH VOLTAGE TERMINAL BLOCK
LPS	=	LOW PRESSURE SWITCH
L	=	LINE
LVTB	=	LOW VOLTAGE TERMINAL BLOCK
TDR	=	TIME DELAY RELAY
•		TERMINAL/SPLICE
- - -		FIELD WIRING
-·-·-·-		OPT.
SW	=	TOGGLE SWITCH
⏚	=	EARTHING
WHT	=	WHITE
BLK	=	BLACK
BLU	=	BLUE
RED	=	RED
YEL	=	YELLOW
GRN/YEL	=	GREEN WITH YELLOW STRIPES
BRN	=	BROWN
PLP	=	PHASE LOSS PROTECTOR

WIRING DIAGRAM
OUTDOOR UNIT
(COOL)

C241557	1BCO11T07	00

WIRING DIAGRAM - OUTDOOR

060K



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

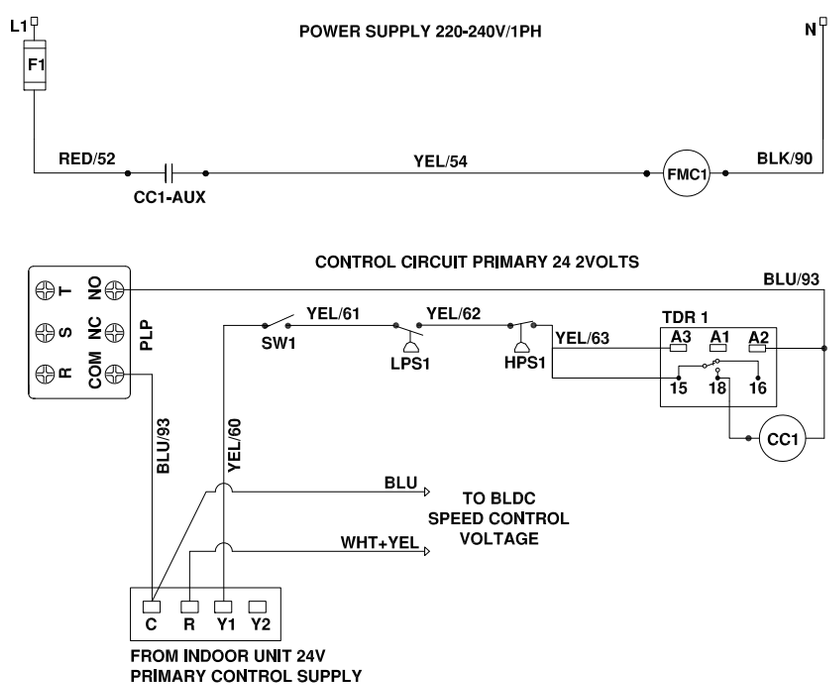
7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
ORG	- ORANGE
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDR	- TIME DELAY RELAY
T.STAT	- THERMOSTAT
WHT	- WHITE
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
– – –	- OPTIONAL MARKING
⏚	- EARTHING



OPTION
OPT.1 - CRANK CASE HEATER

WIRING DIAGRAM FOR OUTDOOR UNITS

WIR DIA ODH 1CMP 1FM 1P ECM 800RPM

C241471	1BCO11R98	00

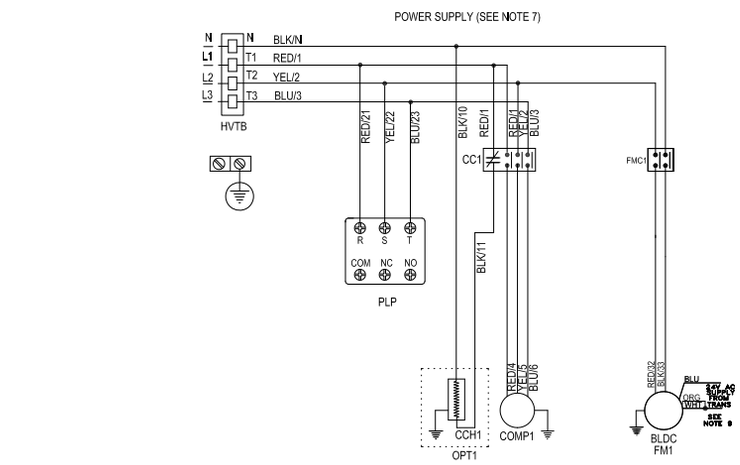
WIRING DIAGRAM - OUTDOOR

072K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

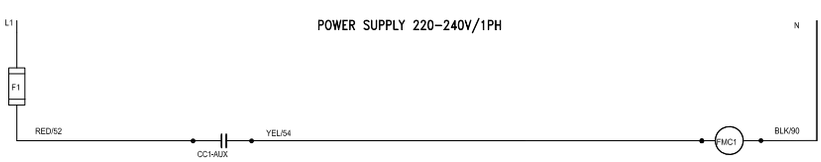
WIRING DIAGRAM FOR OUTDOOR UNITS

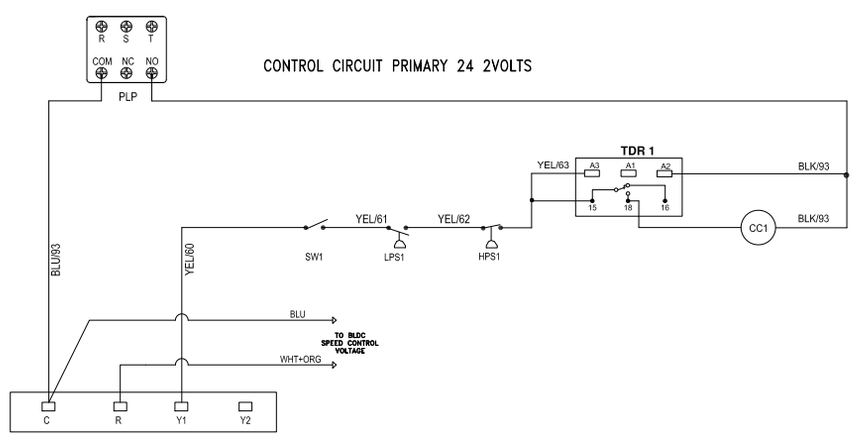
WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60° FWILL MAKE WARRANTY NULL & VOID.



LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
ORG	- ORANGE
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDS	- TIME DELAY SWITCH
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
WHT	- WHITE
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - - -	- OPTIONAL MARKING
⏚	- EARTHING





FROM INDOOR UNIT 24V PRIMARY CONTROL SUPPLY

NOTES
1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz
7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL
8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS
9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR DIA ODH 1CMP 1FM 1P ECM 970RPM

C241430	1BC011R47	00

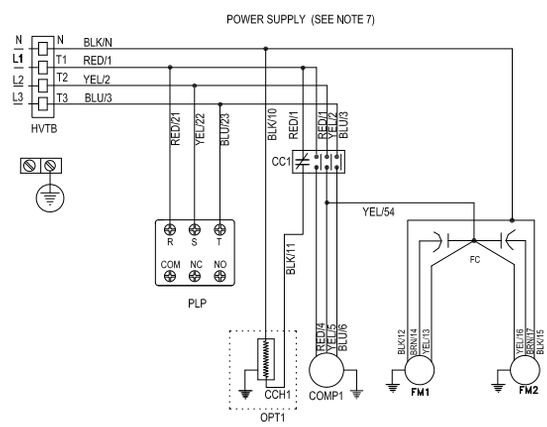
WIRING DIAGRAM - OUTDOOR

090K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

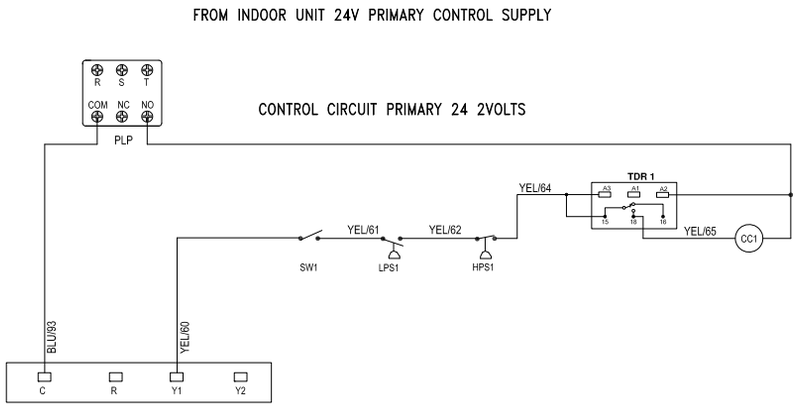
WIRING DIAGRAM FOR OUTDOOR UNITS

WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60 °F WILL MAKE WARRANTY NULL & VOID.



LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FC	- FAN MOTOR CAPACITOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDR	- TIME DELAY RELAY
T.STAT	- THERMOSTAT
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - - -	- OPTIONAL MARKING
⏚	- EARTHING



NOTES
1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz
7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL
8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR.DIA ODD 1COMP 2 FAN SPL		
C241374	1BC011Q90	00

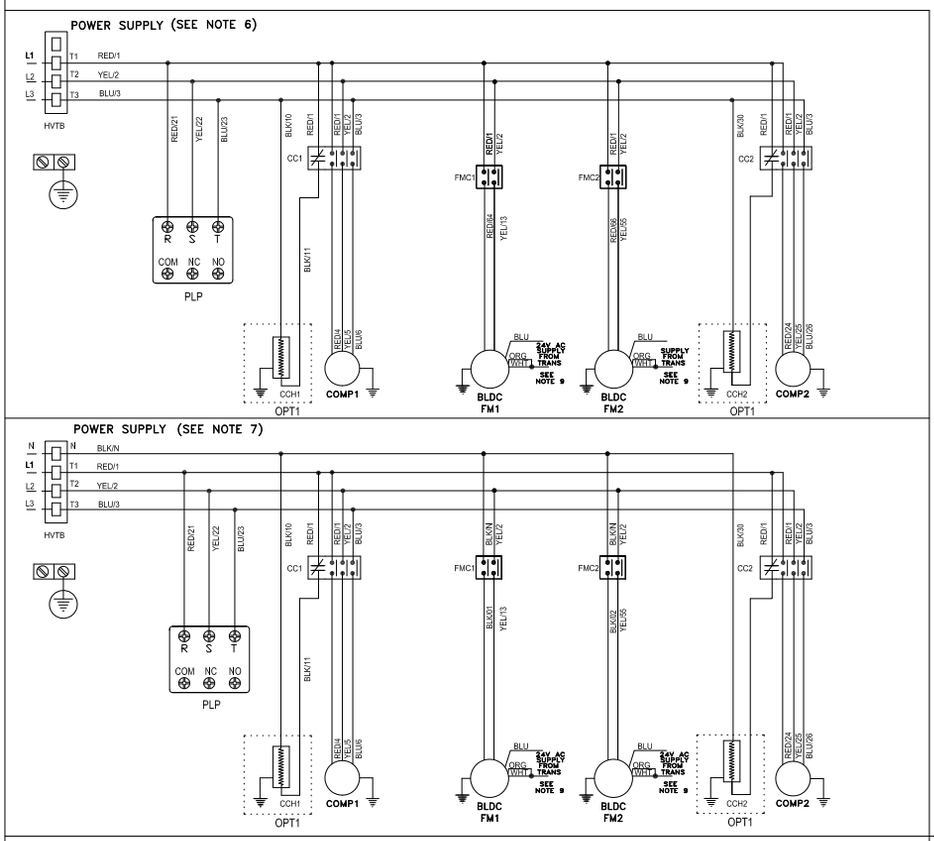
WIRING DIAGRAM - OUTDOOR

120K - 150K - 180K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208-230 VOLTS / 3 PH / 60 HZ
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

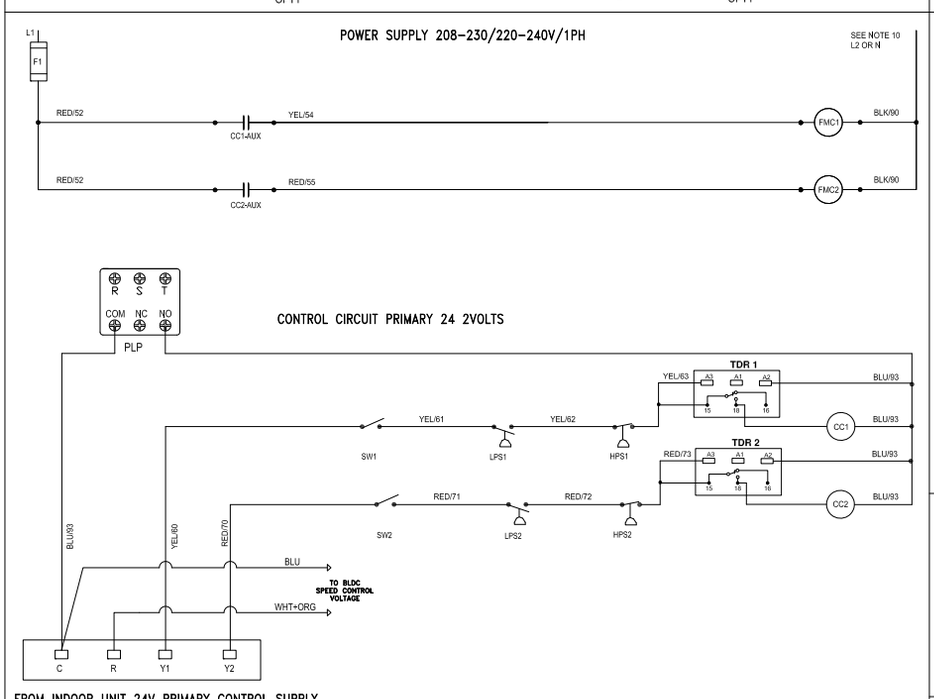
WIRING DIAGRAM FOR OUTDOOR UNITS

WARNING
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LEGEND

ALTR	- ALTERNATE RELAY
BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
ORG	- ORANGE
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDR	- TIME DELAY RELAY
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
WHT	- WHITE
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - - -	- OPTIONAL MARKING
⏚	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS

9) TAP SELECTION IS BASED ON THE REQUIRED RPM FACTORY SET

10) IF POWER SUPPLY IS 230V CONNECT TO L2 . IF POWER SUPPLY IS 380V CONNECT TO N .

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR DIA ODH 2CMP 2FM 1P ECM 970RPM		
C241386	1BC011R03	01

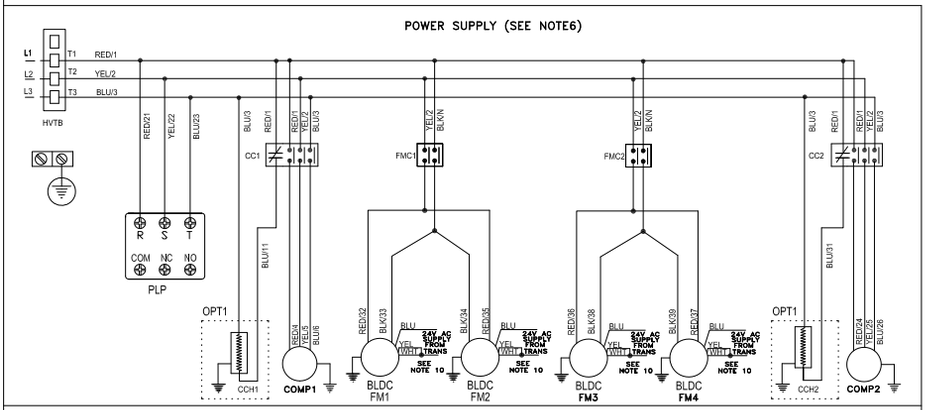
WIRING DIAGRAM - OUTDOOR

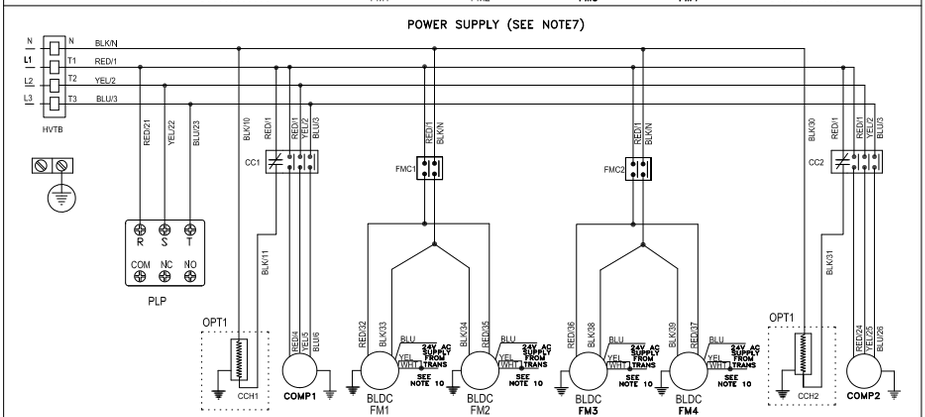
216K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208–230 VOLTS / 3 PH / 60 HZ
380–415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR OUTDOOR UNITS

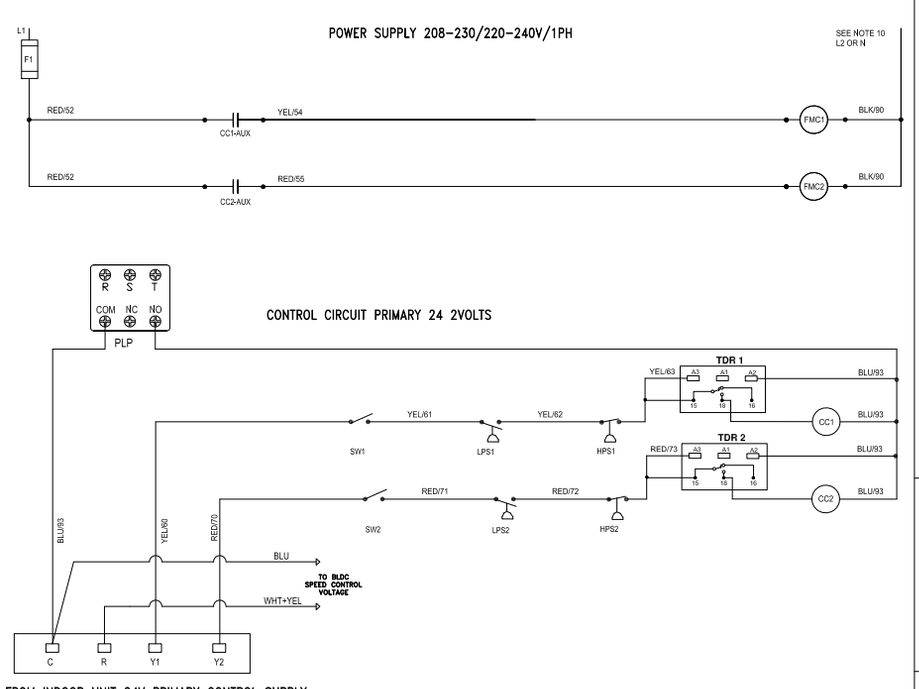
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LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDS	- TIME DELAY SWITCH
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
WHT	- WHITE
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
------	- OPTIONAL MARKING
⏚	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) IF THE POWER SUPPLY IS 230V, CONNECT TO L3
IF THE POWER SUPPLY IS 380V, CONNECT TO N

10) TAP SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR DIA ODH 2CMP 4FM 1P ECM 800RPM

C241469	1BC011R96	01

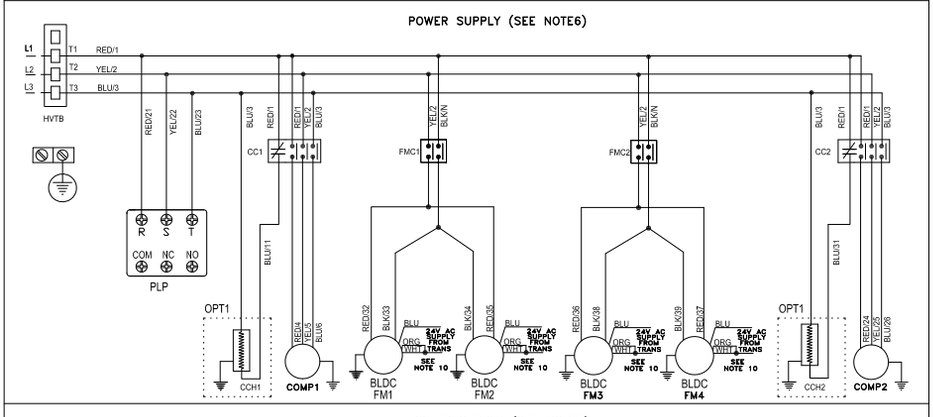
WIRING DIAGRAM - OUTDOOR

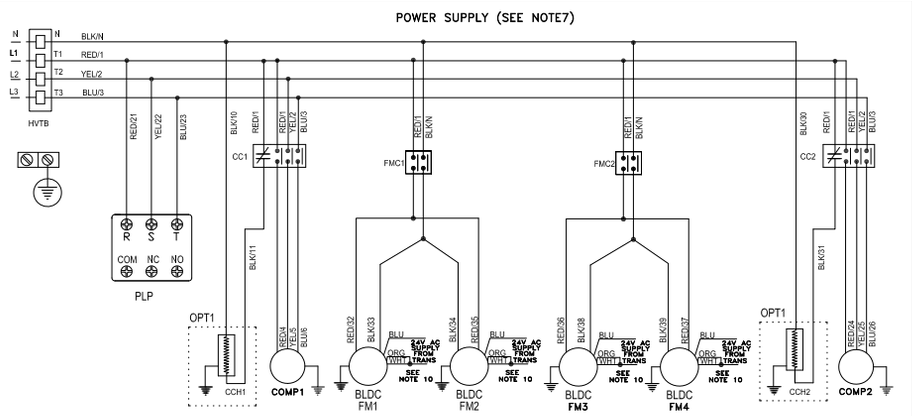
240K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208-230 VOLTS / 3 PH / 60 HZ
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR OUTDOOR UNITS

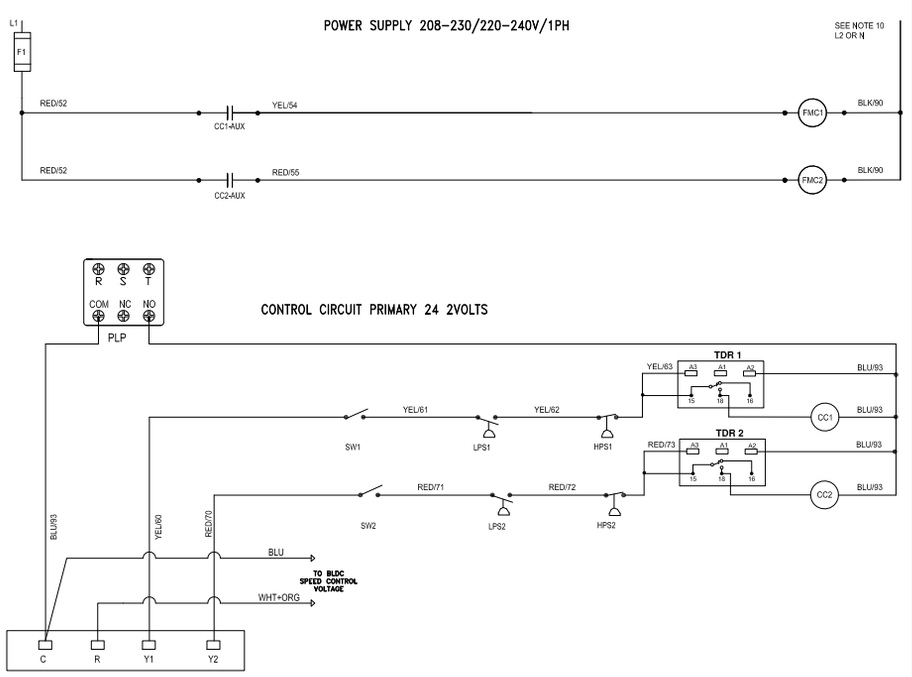
WARNING
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LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDS	- TIME DELAY SWITCH
T,STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
WHT	- WHITE
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - -	- OPTIONAL MARKING
⏚	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS

9) IF THE POWER SUPPLY IS 230V, CONNECT TO L3
IF THE POWER SUPPLY IS 380V, CONNECT TO N

10) TAP SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR DIA ODH 2CMP 4FM 1P ECM 970RPM

C241470	1BC011R97	01

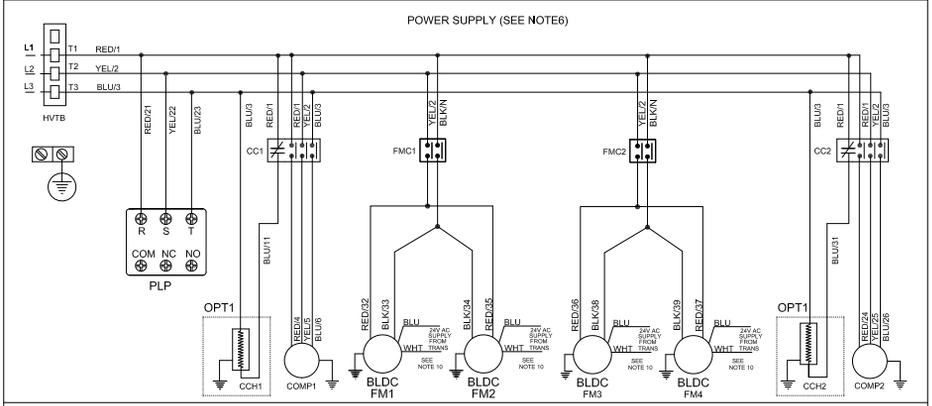
WIRING DIAGRAM - OUTDOOR

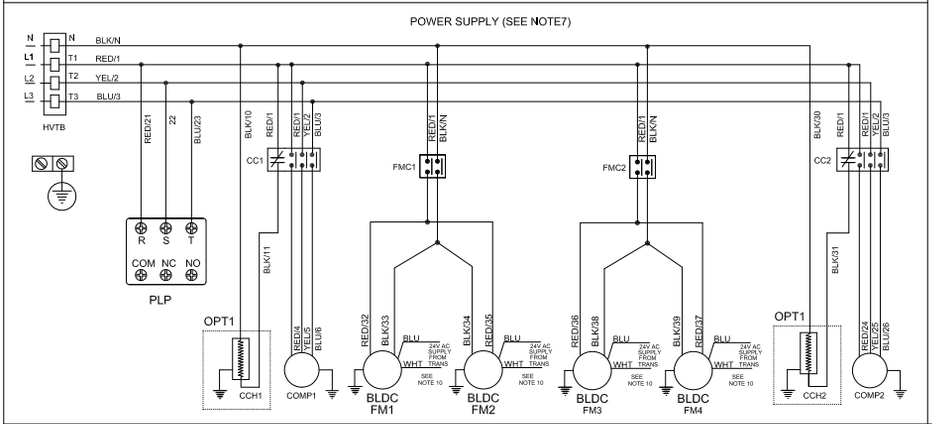
300K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208-230 VOLTS / 3 PH / 60 HZ
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR OUTDOOR UNITS

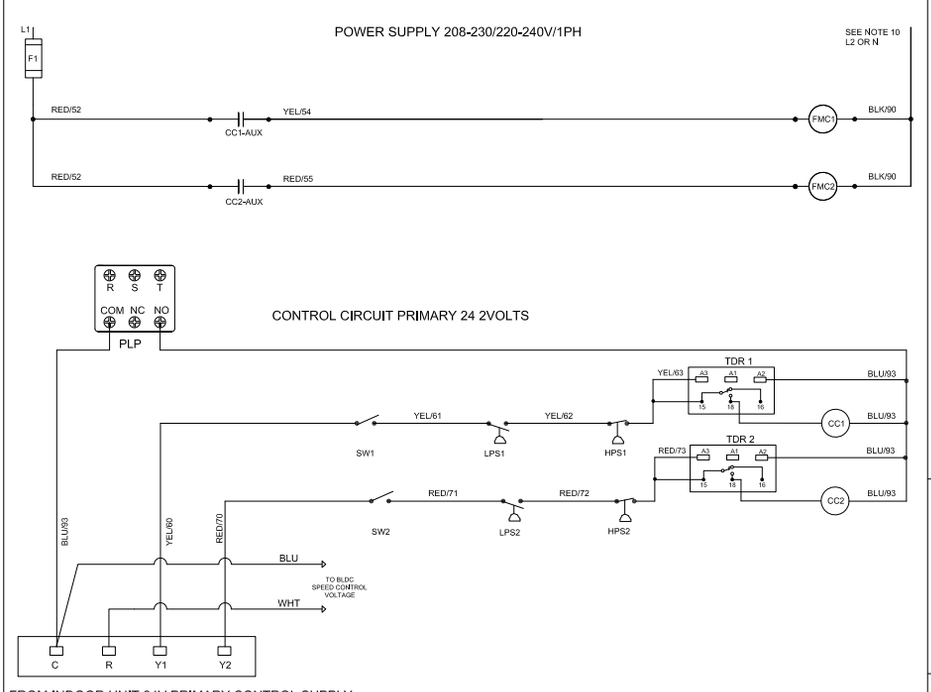
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LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDS	- TIME DELAY SWITCH
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
WHT	- WHITE
— ---	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) IF THE POWER SUPPLY IS 230V, CONNECT TO L3
IF THE POWER SUPPLY IS 380V, CONNECT TO N

10) TAP SELECTION IS BASED ON THE REQUIRED RPM (FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR. DIA-ODU-2C-4FMDC 1060RPM

C241429	1BCO11R46	01

04

AIR COOLED CHILLER UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



AIR COOLED CHILLER

AIR CONDITIONERS

Capacity 25-200TR

HY 5CPA - 50Hz/60Hz

R407C/R410A/R22



صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

CONTENTS

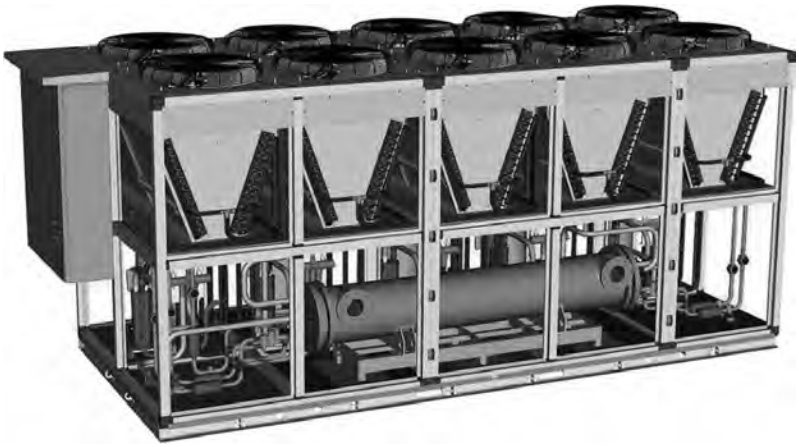
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INTRODUCTION

Air cooled package chillers have been developed & produced to provide not only the optimum performance, but also to guarantee long & trouble free operations.

Herein lies the reason for the Choice of only the highest quality components and design strategies to meet the most important objectives such as,

- Efficiency
- Reliability
- Flexibility
- Easy Installability
- Serviceability
- Affordability

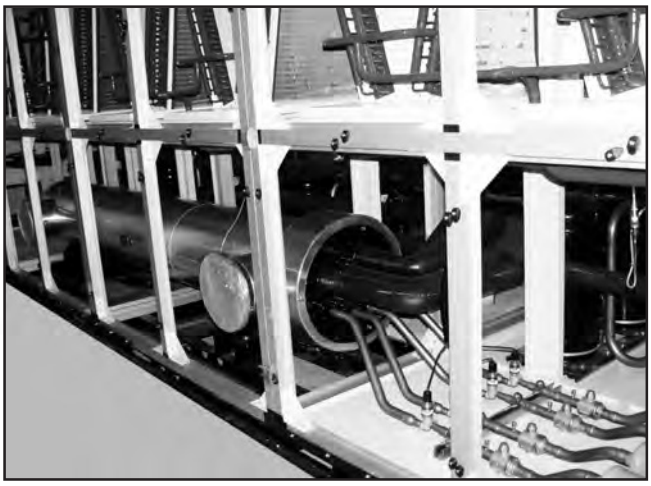


Chillers are designed, manufactured and shipped as a complete package which are run tested at factory before dispatch.

A wide range of chiller capacities and options available with Refrigerant R407C, R410A, R22 both 50 Hz & 60 Hz operation.

Microprocessor based chiller controller effectively manages the operation of chiller at different conditions.





FEATURES

The units are suitable for mounting on the roof or on the ground. All units are factory assembled, piped, internally wired and fully charged with R407C/R410A/R22. These units are tested in accor-dance with ARI standards. The units are available in the following voltages:

380-420/3PH/50HZ
380/3PH/60HZ
208-230/3PH/60HZ

All components are mounted in a weather resistant Frame structure.

COMPRESSOR

Compressors are fully hermetic-scroll type designed for high efficiency provided with standard control and safety devices like HP & LP controls and crank case heater for scroll and reciprocating compressors.

AIR COOLED CONDENSER

Air cooled condenser coils are designed to deliver their duties with optimum performance for all design conditions. Coils are manufactured from seamless inner grooved copper tubes mechanically expanded into aluminum fins. All coils are air pressure at 450 psi, under water to avoid leakage. They also undergo dry chemical cleaning after manufacturing for optimum system cleanness. Type-L heavy wall seamless copper tubes are provided for coil headers. The condenser coils are hydrostatic pressure tested in accordance with the UL 1995 standard.

CONDENSER PROPELLER FANS

All condenser fans are of the propeller, axial type, which is directly mounted on the motors shaft .All fans run approximately 900/1100 RPM (50/60Hz), for optimum fan efficiency and maximum sound power reduction. Fan blades are made from coated steel or aluminum for maximum corrosion resistance, and are statically and dynamically balanced before insulation. Thermal current protec-tion, class-"F" insulation and IP55. All motors are IEC certified. All condenser fans are equipped with epoxy coated wire guard.

THERMOSTATIC EXPANSION VALVE /

metering device provides precision control for maximized cooling.

- The units are completely factory wired with single point power input.
- Easy accessible control box, compressor, controls
- Primary control circuit is designed to operate at 24 volts. Control circuit 230 volts can be given as an option
- All the units are provided with compressor lockout either by locking relays or by high pressure control trip with manual reset switch.
- All the units are provided with 2.5 -3 min time delay for compressor start
- Units are provided with efficient PHE's or Shell and tube evaporators with T/S
- Quality Assurance
- All chillers are run tested at factory prior to dispatch
- Produced in ISO9001-2000 listed manufacturing facility
- Designed & rated to the conditions as per ARI standards

COMPACT SIZING:

- Chillers are made in compact foot print
- Aluminum profile construction is unique feature of Awal Gulf chiller design
- Sheet metal frame construction can also be provided as optional

STANDARD FEATURES:

- Corrosion free profile construction
- Modular design gives greater flexibility
- Easily accessible system components
- Multiple compressor design, gives control over different load conditions
- Units are fitted with Scroll compressor with anti-vibration mounts
- Refrigeration circuit complete with TEX valve, replaceable drier, sight glass, etc.
- Compressor and fan motor provided with overload relays for protection
- Cool only model is standard option
- HP/LP switches provided as protection for the system

Model Decoding

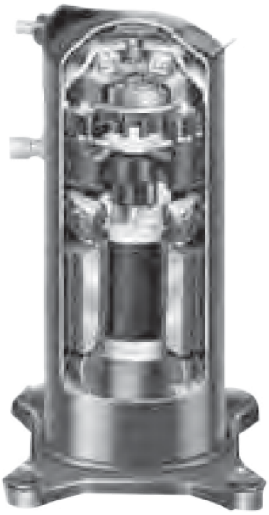
HY5	CPA	206	G	C	8	S	AA
BASIC (SERIES)	CPA: Chiller Package Air	UNIT SIZE (NOMINAL CAPACITY) 25 30 34 40 46 52 59 68 79 91 103 119 131 143 155 171 182 194 206	ELECTRICAL SUPPLY (V-Ph, - Hz) G: (380/415-3-50Hz) T: 9220-3-(60Hz) E: (380-3-60Hz) K: (460-3-6-Hz)	COOLING/ HEATING C: COOLING H: HEATING	NO. OF COMPRESSORS 2 4 6 8	COMPRESSOR TYPE S: SCROLL	FACTOR AA: Basic AT: Tandem AS: Swim pool

OPTIONAL FEATURES

- ANTI CORROSIVE COATED FINS FOR CONDENSER COILS
- STAINLESS STEEL HEAT EXCHANGERS FOR SPECIAL APPLICATIONS
- COPPER FINS FOR CONDENSER
- PHASE LOSS PROTECTION
- FAN SPEED CONTROLLER
- FAN CYCLING SWITCH
- COMPRESSOR ALTERNATING SWITCH
- COMPRESSOR INTERLOCK WITH PUMP (OTHERS)
- PUMP DOWN SYSTEM
- OVER LOAD THERMAL PROTECTION FOR COMPRESSOR
- OVER LOAD THERMAL PROTECTION FOR MOTORS
- VOLT FREE CONTACTS FOR BMS
- DUAL AND ADJUSTABLE PRESSURE SWITCHES
- PUMP DOWN CONTROL
- HOT GAS BYPASS FOR CAPACITY REGULATION
- PLATE HEAT EXCHANGER AS OPTIONAL CAN BE GIVEN FOR SPECIAL APPLICATION
- HIGH ΔT COOLER
- HEAVY DUTY DUST PROOF (IP 55) ELECTRICAL PANEL AVAILABLE FOR SPECIFIC MODELS
- PROTECTIVE GRILL CAN BE GIVEN FOR COMPRESSOR AND CONDENSER SECTION AS OPTIONAL
- HP/LP GAUGES CAN BE PROVIDED AS OPTIONAL

Scroll Compressor

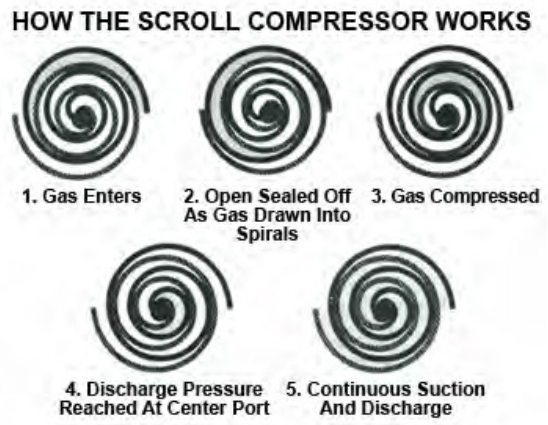
How Scroll Compressors Work



The compressor has one scroll, or spiral, orbiting in a path defined by a matching fixed scroll. The fixed scroll is attached to the compressor body.



The orbiting scroll is coupled to the crankshaft and orbits, rather than rotates. The orbiting motion creates a series of gas pockets traveling between the two scrolls. On the outer portion of the scrolls, the pockets draw in gas, and then move into the center of the scroll, where the gas is discharged. As the gas moves into the increasingly smaller inner pockets, the temperature and pressure increase to the desired discharge pressure.



Design Benefits

Better Liquid Handling
Radial compliance allows the scroll members to separate in the presence of liquid refrigerant, thus, providing protection against liquid damage.

Greater Efficiency
With axial compliance, optimized force between two scrolls can be obtained, leading to high efficiency over the entire operating range.

Improved Sound and Vibration
The system operates at lower sound level and better sound quality. Vibration level is

also improved due to lower discharge gas pulse compared with traditional compressors.

Unmatched Reliability

- 70% fewer moving parts
- Ability to start under any system load, without start components
- Easy to service and maintain due to their compact size and lightweight, simple design
- Engineered for optimum performance with today's chlorine-free refrigerants
- No complex internal suction and discharge valves for quieter operation and higher reliability

Refrigeration Scroll Compressors

Scroll technology has inherent advantages compared to the technology of reciprocating compressors. The distinct scroll pockets in a scroll compression mechanism eliminate the need for suction valve. The continuous compression (scroll compressor), compared to the pulsating compression process (reciprocating compressor) eliminates the need for mufflers in the suction and discharge gas. The combined effect is superior efficiency as it eliminates pressure losses occurring on the valves and mufflers. The design minimizes the leakage across successive high pressure pockets, further enhancing compressor efficiency.

Scroll compressors have higher volumetric efficiency. The effect is a much flatter capacity delivery across wide outdoor ambient conditions. This enables a relatively smaller-sized compressor to deliver the cooling demand at the worst summer days. In lower ambient nights, scroll compressors enable the system to be more balanced, allowing overall savings in electrical power consumption.

Reliability

Scroll compressors are known for their reliability. What makes them so reliable? Patented design features:

- 70 percent fewer moving parts
- Ability to start under any system load
- Compact, light-weight design
- No complex internal suction and discharge valves

Tandem Compressor

Models HY 5CPA131 to HY 5CPA206 use Tandem Scroll Compressors. Tandem scroll compressors make possible great flexibility in system design for a wide range of applications. Since each compressor may be operated individually, this design provides simple, capacity reduction & maximum power savings and greatly simplifies system control. In any well designed system, this kind of design offers a much greater factor of redundancy than a single compressor and provides emergency protection for the product. In addition to greater reliability, one great advantage of the multiple compressor design over other large horsepower compressors is the fact that in the event of compressor damage, replacement of either compressor in the tandem can be easily done.

Design of multiple compressor units

Tandem compressors consist of two compressors respectively, which can be equal or of different size models. They offer advantages over single compressors with equivalent capacity:

- Efficient capacity control - through cycling one or two compressors
- Increased reliability - fewer starts/stops than a single large compressor
- Reduced load starting, whereby individual compressors in Tandem can be started with time delay
- Redundancy - part load capacity if one compressor fails, reduced replacement costs

Compressors used in Tandem have to be solid mounted by use of steel spacers on two rigid rails to build a unit. The reason for the solid mounting is to keep stresses in the tubing connecting the compressors at reasonable levels. The compressors should be mounted as close as possible to each other so as to keep the gas-oil equalization line as short as possible. The shorter the line, the better the oil/gas equalization. The unit rails should then be bolted to the installation base through anti-vibration mounts. The unit should be installed level to ensure proper equalization between the compressors. Install flexible hoses or vibration absorbers to connect the suction and discharge tubing to the system. It is recommended that the unit is controlled in a way that the compressors alternate being the lead compressor.

This will ensure an even life for the compressors and give optimum reliability for the unit. It will also prevent an undesirable situation where a compressor is idle for long periods during time of low load operation.

With increasing cooling capacity usually the pipe work becomes more complex. In this case the installation of an oil separator may be recommended.

Controls

The controls of a unit comply with the following specifications:

- Any sequence of start/stop combination of compressors is allowed.
- For each individual compressor, the maximum number of starts is 10/hour.
- It is recommended to wait 5 seconds before starting or stopping another compressor.
- It is recommended not to start or stop 2 or 3 compressors together.

CAPACITY CONTROL

Scroll water chillers incorporate stepped load shedding as required by most energy management systems. Modulation of capacity in response to system load requirements is affected by the microprocessor controller which monitors the leaving water temperature.

Capacity control is achieved by cycling compressors ON/OFF and sequential operation of compressors which provides optimal part load capacities for chillers with multiple compressors.

See the following table for the standard and optional capacity control for each unit.

MODEL	NO. COMP	% FULL LOAD CAPACITY CONTROL
HY 5CPA 025	2	100-OFF
HY 5CPA 030	2	100-OFF
HY 5CPA 034	2	100-OFF
HY 5CPA 040	2	100-OFF
HY 5CPA 046	2	100-OFF
HY 5CPA 052	2	100-OFF
HY 5CPA 059	2 -T	25-50-75-100-OFF
HY 5CPA 068	2 -T	25-50-75-100-OFF
HY 5CPA 079	2 -T	25-50-75-100-OFF
HY 5CPA 091	2 -T	25-50-75-100-OFF
HY 5CPA103	2 -T	25-50-75-100-OFF
HY 5CPA119	3 -T	16-33-49-66-83-100-OFF
HY 5CPA131	3 -T	16-33-49-66-83-100-OFF
HY 5CPA143	3 -T	16-33-49-66-83-100%-OFF
HY 5CPA155	3 -T	16-33-49-66-83-100%-OFF
HY 5CPA171	4 -T	12-24-36-48-60-72-90-100-OFF
HY 5CPA182	4 -T	12-24-36-48-60-72-90-100-OFF
HY 5CPA194	4 -T	12-24-36-48-60-72-90-100-OFF
HY 5CPA206	4 -T	12-24-36-48-60-72-90-100-OFF

Shell and Tube Evaporator



Performance and features

- Optimized for R407C/R410A/R22 high-efficiency in water-cooled chillers
- Designed to match scroll R407C/R410A/R22 compressors
- Meets high efficiency demands as well as severe environmental standards
- Tubes ensure safe oil return, even for the most viscous oils
- Compact Heat Exchanger design
- Extractable tube bundle
- Integrated square support version avoiding need for additional mounting feet
- Different baffle distances

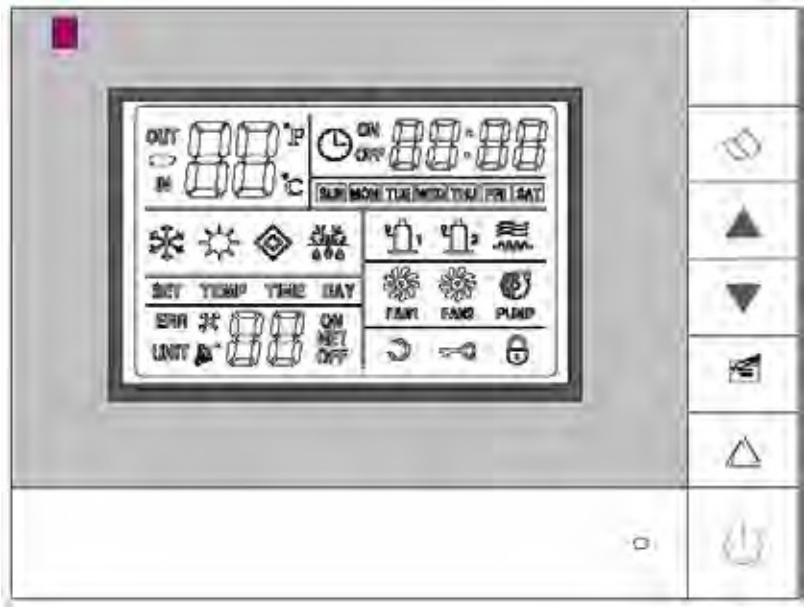
Refrigerant eff iciency

Compared with other refrigerants used frequently, R407C/R410A/R22 offers excellent performance. Evaporators designed specifically to maximize the been its of using highly effective refrigerant.

Controller

For chillers up to 2 compressors

The wall pad controller equips with multi color backlighting LCD display. Supports the following functions:



- Mode-Cool, Heat
- Independent temperature setting for cool mode and heat mode respectively
- Inlet/outlet water temperature display
- Real time clock display
- Real time On/Off setting [Monday to Sunday]
- Manual defrost
- Key lock function
- Control parameter setting
- Auto restart or default off upon power up
- Remote on/off
- Non volatile memory to keep the system setting
- Multi color black lighting
- Multi error code read out
- Buzzer beeping
- Infra red wireless remote control
- Real time clock operation backup by battery during power off

For chillers up to 6 compressors

The wall pad controller equips with multi color backlighting LCD display. Supports the following functions:



- ON/OFF
- Defrost
- Auto defrost mode
- Manual defrost mode
- Auxiliary electric heater
- Auto anti-freeze
- Liquid valve
- Compressor controls and load balancing
- Protection control
- Remote connection
- Manual Control
- Display: date, time; Entering/Leaving water temperature, Hot water temperature (When applicable); Mode of operation (COOL，HEAT); Water pump status ; System ON/OFF status.
- User set parameter
- Mode of operation
- System timer
- User password setting
- System model setting
- Maintenance password setting
- Manufacturer parameter setting
- Manufacturer info
- Error info
- Password protection

For chillers up to 8 compressors

The wall pad controller equips with multi color backlighting LCD display. Supports the following functions:



- ON/OFF
- Defrost
- Auto defrost mode
- Manual defrost mode
- Auxiliary electric heater
- Auto anti-freeze
- Liquid valve
- Compressor controls and load balancing
- Protection control
- Remote connection
- Manual Control
- Display: date, time; Entering/Leaving water temperature, Hot water temperature (When applicable); Mode of operation (COOL ,HEAT); Water pump status; System ON/OFF status.
- User set parameter
- Mode of operation
- System timer
- User password setting
- System model setting
- Maintenance password setting
- Manufacturer parameter setting
- Manufacturer info
- Error info
- Password protection
- Local access through Rs232 or Ethernet communication
- Remote access through remote modem communication
- BMS control through third party communication protocol (ModBus, Bacnet etc.)
- Status indications for Compressor, Fan, 4Way Valve etc.
- Compressor current indications
- Over current and under current trip
- Pressure value display
- Low pressure trip and high pressure
- Safety trip indication with time and 30 seconds back log
- Tonnage indication with demand and actual load
- Automatic defrost functions
- Hot gas bypass control

Specification

UNIT SIZE (TR)		25	30	34	40	46	52	59
Capacity KW		88	105	120	141	162	183	207
COMPRESSOR								
Power supply		380-415-3-50						
NUMBER OF COMPRESSORS		2	2	2	2	2	2	3
NUMBER OF CIRCUITS		2	2	2	2	2	2	3
REFRIGERANT		R407C / R410A / R22						
Power Consumption KW	R407C	24.6	28.6	32.5	40.4	44.3	48.2	60.6
	R410A	24.6	28.2	32	39.4	45.4	51.4	59.1
	R22	25	28.7	32.7	40.4	44.8	49.2	60.6
EXPANSION VALVE		THERMOSTATIC						
CONTROL VOLTAGE		220V-1Ph-50Hz						
CONDENSER								
CONDENSER COIL Tube DIA		3/8	3/8	3/8	3/8	3/8	3/8	3/8
Rows		4	4	4	4	4	4	4
Fins per inch		14	14	14	14	14	14	14
Total face area, Sq. ft.		28.4	28.4	28.4	56.8	56.8	56.8	85.2
AIRFLOW, CFM		15000	18000	18000	27600	27600	27600	40800
NUMBER OF FAN/FAN DIA 760 mm		2	2	2	4	4	4	6
Motor KW		2.2	2.2	2.2	4.5	4.5	4.5	6.7
Motor rpm		960						
COOLER								
SHELL DIAMETER, mm		220	220	273	273	273	273	325
LENGTH, mm		1606	1856	1856	1856	2110	2110	2110
WATER IN/OUT PIPE DIA.mm		2-1/2"	2-1/2"	3"	3"	3"	3"	3"
Water flow rate GPM		60	72	81.6	96	110	125	142
GENERAL								
SHIPPING /OPERATING WEIGHTS kg		1030	1094	1130	1954	1964	1980	2470
Dimensions								
Height mm		1620	1620	1620	2300	2300	2300	2300
Depth mm		2480	2480	2480	2450	2450	2450	2900
Width mm		1110	1110	1110	2200	2200	2200	2250

Notes:

1-Capacity and power rating are nominal and based on ASHRAE STD conditions.

2- As a result of continuous development and research, design and specifications are subject to change without notice.

Specification

UNIT SIZE (TR)		68	79	91	103	119	131
Capacity KW		239	278	320	362	418	461
COMPRESSOR							
Power supply		380-415-3-50					
NUMBER OF COMPRESSORS		3	3	4	4	5	3 -T
NUMBER OF CIRCUITS		3	3	4	4	5	3
REFRIGERANT		R407C / R410A / R22					
Power Consumption KW	R407C	64.5	72.3	88.6	96.4	120.5	125
	R410A	67.3	77.1	90.8	102.8	128.5	131
	R22	65.4	73.8	89.6	98.4	123	127.1
EXPANSION VALVE		THERMOSTATIC					
CONTROL VOLTAGE		220V-1Ph-50Hz					
CONDENSER							
CONDENSER COIL Tube DIA		3/8	3/8	3/8	3/8	3/8	3/8
Rows		4	4	4	4	4	4
Fins per inch		14	14	14	14	14	14
Total face area, Sq. ft.		85.2	85.2	113.6	113.6	142	170.4
AIRFLOW, CFM		40800	54600	54600	54600	71400	85800
NUMBER OF FAN/FAN DIA 760 mm		6	6	8	8	10	12
Motor KW		6.7	6.7	8.9	8.9	11.2	13.4
Motor rpm		960					
COOLER							
SHELL DIAMETER, mm		325	325	325	325	402	402
LENGTH, mm		2110	2510	2510	2510	2543	2543
WATER IN/OUT PIPE DIA.mm		3"	4"	4"	4"	5"	5"
Water flow rate GPM		163	190	218	247	286	314
GENERAL							
SHIPPING /OPERATING WEIGHTS kg		2478	2512	3060	3172	4560	5220
Dimensions							
Height mm		2300	2300	2300	2300	2300	2300
Depth mm		2900	2900	3900	3900	4825	5850
Width mm		2250	2250	2200	2200	2262	2200

Notes:

1-Capacity and power rating are nominal and based on ASHRAE STD conditions.

2- As a result of continuous development and research, design and specifications are subject to change without notice.

Specification

UNIT SIZE (TR)		143	155	171	182	194	206
Capacity KW		503	545	601	640	682	724
COMPRESSOR							
Power supply		380-415-3-50					
NUMBER OF COMPRESSORS		3-T	3-T	4-T	4-T	4-T	4-T
NUMBER OF CIRCUITS		3	3	4	4	4	4
REFRIGERANT		R407C / R410A / R22					
Power Consumption KW	R407C	136.8	144.6	165.4	177.2	188.9	192.8
	R410A	144.4	154.2	170.4	183.8	199.6	205.6
	R22	139.2	147.6	167.5	179.6	192.4	196.8
EXPANSION VALVE		THERMOSTATIC					
CONTROL VOLTAGE		220V-1Ph-50Hz					
CONDENSER							
CONDENSER COIL Tube DIA		3/8	3/8	3/8	3/8	3/8	3/8
Rows		4	4	4	4	4	4
Fins per inch		14	14	14	14	14	14
Total face area, Sq. ft.		170.4	170.4	227.2	227.2	227.2	227.2
AIRFLOW, CFM		85800	85800	116400	116400	116400	116400
NUMBER OF FAN/FAN DIA 760 mm		12	12	16	16	16	16
Motor KW		13.4	13.4	17.9	17.9	17.9	17.9
Motor rpm		960					
COOLER							
SHELL DIAMETER, mm		402	402	452	452	452	452
LENGTH, mm		2543	2543	2550	2550	3150	3150
WATER IN/OUT PIPE DIA.mm		5"	5"	6"	6"	6"	6"
Water flow rate GPM		343	372	410	437	466	494
GENERAL							
SHIPPING /OPERATING WEIGHTS kg		5280	5300	6226	6240	7526	7544
Dimensions							
Height mm		2300	2300	2300	2300	2300	2300
Depth mm		5850	5850	7200	7200	7800	7800
Width mm		2200	2200	2200	2200	2200	2200

Notes:

1-Capacity and power rating are nominal and based on ASHRAE STD conditions.

2- As a result of continuous development and research, design and specifications are subject to change without notice.

R410A - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA025	40	21.9	25.3	52.6	21.1	26.4	50.5	20.2	27.5	48.5	19.4	28.6	46.6	18.6	29.7	44.7
	42	22.8	25.5	54.7	21.9	26.5	52.6	21.1	27.6	50.5	20.2	28.7	48.5	19.4	29.8	46.6
	44	23.8	25.6	57.0	22.8	26.7	54.8	21.9	27.7	52.6	21.1	28.8	50.5	20.2	30.0	48.5
	45	24.8	25.7	59.4	23.8	26.8	57.1	22.8	27.9	54.8	21.9	29.0	52.6	21.1	30.1	50.5
	46	25.7	25.9	61.8	24.8	26.9	59.4	23.8	28.0	57.0	22.8	29.1	54.7	21.9	30.3	52.6
	48	26.8	26.0	64.3	25.7	27.1	61.8	24.7	28.2	59.3	23.7	29.3	56.9	22.8	30.4	54.7
	50	27.8	26.1	66.8	26.8	27.2	64.3	25.7	28.3	61.7	24.7	29.4	59.2	23.7	30.6	56.8
HY 5CPA030	40	25.2	28.7	60.5	24.2	29.9	58.2	23.3	31.1	55.9	22.3	32.4	53.6	21.4	33.7	51.5
	42	26.3	28.9	63.0	25.3	30.1	60.6	24.2	31.3	58.2	23.3	32.6	55.9	22.3	33.9	53.6
	44	27.4	29.0	65.7	26.3	30.2	63.1	25.3	31.5	60.6	24.2	32.7	58.2	23.3	34.0	55.9
	45	28.5	29.2	68.4	27.4	30.4	65.8	26.3	31.6	63.1	25.3	32.9	60.6	24.2	34.2	58.2
	46	29.6	29.3	71.1	28.5	30.6	68.4	27.4	31.8	65.7	26.3	33.0	63.0	25.2	34.4	60.5
	48	30.8	29.5	74.0	29.6	30.7	71.1	28.5	31.9	68.3	27.3	33.2	65.5	26.2	34.5	62.9
	50	32.1	29.6	76.9	30.8	30.9	74.0	29.6	32.1	71.0	28.4	33.4	68.2	27.3	34.7	65.4
HY 5CPA034	40	28.9	32.3	69.3	27.8	33.7	66.7	26.7	35.0	64.0	25.6	36.4	61.4	24.6	37.9	59.0
	42	30.1	32.5	72.2	28.9	33.9	69.5	27.8	35.2	66.7	26.7	36.6	64.0	25.6	38.1	61.4
	44	31.3	32.7	75.2	30.1	34.0	72.3	28.9	35.4	69.5	27.8	36.8	66.7	26.7	38.3	64.0
	45	32.7	32.8	78.4	31.4	34.2	75.4	30.1	35.6	72.3	28.9	37.0	69.5	27.8	38.5	66.7
	46	34.0	33.0	81.5	32.7	34.4	78.4	31.3	35.7	75.2	30.1	37.2	72.2	28.9	38.7	69.3
	48	35.3	33.2	84.8	34.0	34.5	81.5	32.6	35.9	78.2	31.3	37.4	75.1	30.0	38.9	72.1
	50	36.7	33.3	88.2	35.3	34.7	84.8	33.9	36.1	81.4	32.6	37.5	78.1	31.2	39.1	75.0
HY 5CPA040	40	35.9	41.5	86.1	34.5	43.2	82.8	33.1	45.0	79.5	31.8	46.8	76.3	30.5	48.6	73.3
	42	37.4	41.7	89.7	35.9	43.5	86.3	34.5	45.2	82.8	33.1	47.0	79.5	31.8	48.9	76.3
	44	38.9	41.9	93.5	37.4	43.7	89.9	35.9	45.4	86.3	34.5	47.2	82.8	33.1	49.1	79.5
	45	40.6	42.1	97.3	39	43.9	93.6	37.4	45.7	89.9	35.9	47.5	86.3	34.5	49.4	82.8
	46	42.2	42.4	101.2	40.6	44.1	97.3	38.9	45.9	93.5	37.4	47.7	89.7	35.9	49.6	86.1
	48	43.9	42.6	105.3	42.2	44.3	101.2	40.5	46.1	97.2	38.9	48.0	93.3	37.3	49.9	89.6
	50	45.6	42.8	109.5	43.9	44.6	105.3	42.1	46.3	101.1	40.4	48.2	97.0	38.8	50.1	93.2
HY 5CPA046	40	41.1	47.2	98.7	39.5	49.2	94.9	38.0	51.1	91.1	36.4	53.2	87.5	35.0	55.3	84.0
	42	42.8	47.4	102.8	41.2	49.4	98.9	39.5	51.4	94.9	38.0	53.4	91.1	36.4	55.6	87.5
	44	44.6	47.7	107.1	42.9	49.7	103.0	41.2	51.6	98.9	39.5	53.7	94.9	38.0	55.9	91.1
	45	46.5	47.9	111.6	44.7	49.9	107.3	42.9	51.9	103.0	41.2	54.0	98.9	39.5	56.1	94.9
	46	48.3	48.1	116.0	46.5	50.1	111.6	44.6	52.2	107.1	42.8	54.2	102.8	41.1	56.4	98.7
	48	50.3	48.4	120.7	48.3	50.4	116.0	46.4	52.4	111.4	44.6	54.5	106.9	42.8	56.7	102.7
	50	52.3	48.6	125.5	50.3	50.7	120.7	48.3	52.7	115.8	46.3	54.8	111.2	44.5	57.0	106.8

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R410A - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
Hy 5CPA052	40	46.4	52.9	111.3	44.6	55.1	107.0	42.8	57.3	102.7	41.1	59.6	98.6	39.5	61.9	94.7
	42	48.3	53.1	115.9	46.4	55.3	111.5	44.6	57.6	107.0	42.8	59.9	102.7	41.1	62.3	98.6
	44	50.3	53.4	120.8	48.4	55.6	116.1	46.4	57.8	111.5	44.6	60.2	107.0	42.8	62.6	102.7
	45	52.4	53.7	125.8	50.4	55.9	121.0	48.4	58.1	116.1	46.4	60.5	111.5	44.6	62.9	107.0
	46	54.5	53.9	130.8	52.4	56.2	125.8	50.3	58.4	120.8	48.3	60.8	115.9	46.4	63.2	111.3
	48	56.7	54.2	136.1	54.5	56.5	130.8	52.3	58.7	125.6	50.2	61.1	120.6	48.2	63.5	115.8
	50	59.0	54.5	141.5	56.7	56.7	136.1	54.4	59.0	130.6	52.2	61.4	125.4	50.2	63.8	120.4
HY 5CPA059	40	53.8	62.2	129.2	51.8	64.8	124.2	49.7	67.4	119.2	47.7	70.1	114.5	45.8	72.9	109.9
	42	56.1	62.5	134.6	53.9	65.1	129.4	51.8	67.7	124.2	49.7	70.5	119.2	47.7	73.3	114.5
	44	58.4	62.9	140.2	56.2	65.5	134.8	53.9	68.1	129.4	51.8	70.8	124.2	49.7	73.6	119.2
	45	60.8	63.2	146.0	58.5	65.8	140.4	56.2	68.4	134.8	53.9	71.2	129.4	51.8	74.0	124.2
	46	63.3	63.5	151.9	60.8	66.1	146.0	58.4	68.8	140.2	56.1	71.5	134.6	53.8	74.4	129.2
	48	65.8	63.8	157.9	63.3	66.5	151.9	60.7	69.1	145.8	58.3	71.9	140.0	56.0	74.8	134.4
	50	68.4	64.1	164.2	65.8	66.8	157.9	63.2	69.5	151.6	60.6	72.2	145.5	58.2	75.1	139.7
Hy 5CPA068	40	60.6	70.0	145.5	58.3	72.9	139.9	56.0	75.8	134.3	53.7	78.8	129.0	51.6	82.0	123.8
	42	63.2	70.3	151.6	60.7	73.3	145.8	58.3	76.2	139.9	56.0	79.2	134.3	53.7	82.4	129.0
	44	65.8	70.7	157.9	63.3	73.6	151.8	60.7	76.6	145.8	58.3	79.6	139.9	56.0	82.8	134.3
	45	68.5	71.0	164.5	65.9	74	158.2	63.3	77.0	151.8	60.7	80.0	145.8	58.3	83.2	139.9
	46	71.3	71.4	171.1	68.5	74.4	164.5	65.8	77.3	157.9	63.2	80.4	151.6	60.6	83.7	145.5
	48	74.1	71.8	177.9	71.3	74.7	171.1	68.4	77.7	164.2	65.7	80.8	157.7	63.1	84.1	151.3
	50	77.1	72.1	185.0	74.1	75.1	177.9	71.2	78.1	170.8	68.3	81.2	164.0	65.6	84.5	157.4
HY 5CPA079	40	69.6	79.2	166.9	66.9	82.5	160.5	64.2	85.9	154.1	61.6	89.3	147.9	59.2	92.9	142.0
	42	72.5	79.6	173.9	69.7	83.0	167.2	66.9	86.3	160.5	64.2	89.7	154.1	61.6	93.3	147.9
	44	75.5	80.0	181.1	72.6	83.4	174.2	69.7	86.7	167.2	66.9	90.2	160.5	64.2	93.8	154.1
	45	78.6	80.4	188.7	75.6	83.8	181.4	72.6	87.2	174.2	69.7	90.6	167.2	66.9	94.3	160.5
	46	81.8	80.9	196.2	78.6	84.2	188.7	75.5	87.6	181.1	72.5	91.1	173.9	69.6	94.7	166.9
	48	85.0	81.3	204.1	81.8	84.6	196.2	78.5	88.0	188.4	75.4	91.5	180.9	72.3	95.2	173.6
	50	88.4	81.7	212.3	85.0	85.1	204.1	81.6	88.5	195.9	78.4	92.0	188.1	75.2	95.7	180.6
HY 5CPA091	40	82.3	94.3	197.4	79.1	98.2	189.8	75.9	102.1	182.2	72.9	106.2	174.9	70.0	110.5	167.9
	42	85.7	94.8	205.6	82.4	98.7	197.7	79.1	102.7	189.8	75.9	106.8	182.2	72.9	111.0	174.9
	44	89.3	95.2	214.2	85.8	99.2	206.0	82.4	103.2	197.7	79.1	107.3	189.8	75.9	111.6	182.2
	45	93.0	95.7	223.1	89.4	99.7	214.6	85.8	103.7	206.0	82.4	107.8	197.7	79.1	112.1	189.8
	46	96.7	96.2	232.1	93.0	100.2	223.1	89.3	104.2	214.2	85.7	108.4	205.6	82.3	112.7	197.4
	48	100.6	96.7	241.4	96.7	100.7	232.1	92.8	104.7	222.8	89.1	108.9	213.9	85.5	113.3	205.3
	50	104.6	97.2	251.0	100.6	101.2	241.4	96.5	105.3	231.7	92.7	109.5	222.4	89.0	113.8	213.5

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R410A - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA103	40	92.7	105.6	222.6	89.2	110.0	214.0	85.6	114.4	205.5	82.2	119.0	197.3	78.9	123.8	189.4
	42	96.6	106.2	231.9	92.9	110.6	223.0	89.2	115.0	214.0	85.6	119.6	205.5	82.2	124.4	197.3
	44	100.6	106.7	241.5	96.8	111.1	232.2	92.9	115.6	223.0	89.2	120.2	214.0	85.6	125.0	205.5
	45	104.8	107.2	251.6	100.8	111.7	241.9	96.8	116.2	232.2	92.9	120.8	223.0	89.2	125.6	214.0
	46	109.0	107.8	261.7	104.8	112.3	251.6	100.6	116.7	241.5	96.6	121.4	231.9	92.7	126.3	222.6
	48	113.4	108.3	272.1	109.0	112.8	261.7	104.7	117.3	251.2	100.5	122.0	241.1	96.5	126.9	231.5
	50	117.9	108.8	283.0	113.4	113.4	272.1	108.9	117.9	261.2	104.5	122.6	250.8	100.3	127.5	240.8
HY 5CPA119	40	115.9	132.1	278.2	111.5	137.6	267.5	107.0	143.1	256.8	102.7	148.8	246.6	98.6	154.8	236.7
	42	120.8	132.8	289.8	116.1	138.3	278.7	111.5	143.8	267.5	107.0	149.6	256.8	102.7	155.6	246.6
	44	125.8	133.4	301.9	121.0	139.0	290.3	116.1	144.6	278.7	111.5	150.3	267.5	107.0	156.4	256.8
	45	131.0	134.1	314.5	126	139.7	302.4	121.0	145.3	290.3	116.1	151.1	278.7	111.5	157.1	267.5
	46	136.3	134.8	327.1	131.0	140.4	314.5	125.8	146.0	301.9	120.8	151.9	289.8	115.9	157.9	278.2
	48	141.7	135.5	340.2	136.3	141.1	327.1	130.8	146.7	314.0	125.6	152.6	301.4	120.6	158.7	289.4
	50	147.4	136.1	353.8	141.7	141.8	340.2	136.1	147.5	326.6	130.6	153.4	313.5	125.4	159.5	301.0
HY 5CPA131	40	118.0	136.6	283.1	113.4	142.2	272.2	108.9	147.9	261.3	104.5	153.9	250.9	100.3	160.0	240.8
	42	122.9	137.2	294.9	118.1	143.0	283.6	113.4	148.7	272.2	108.9	154.6	261.3	104.5	160.8	250.9
	44	128.0	137.9	307.2	123.1	143.7	295.4	118.1	149.4	283.6	113.4	155.4	272.2	108.9	161.6	261.3
	45	133.3	138.6	320.0	128.2	144.4	307.7	123.1	150.2	295.4	118.1	156.2	283.6	113.4	162.4	272.2
	46	138.7	139.3	332.8	133.3	145.1	320.0	128.0	150.9	307.2	122.9	157.0	294.9	118.0	163.2	283.1
	48	144.2	140.0	346.1	138.7	145.8	332.8	133.1	151.7	319.5	127.8	157.7	306.7	122.7	164.1	294.4
	50	150.0	140.7	359.9	144.2	146.6	346.1	138.4	152.4	332.3	132.9	158.5	319.0	127.6	164.9	306.2
HY 5CPA143	40	130.2	149.2	312.5	125.2	155.4	300.5	120.2	161.7	288.4	115.4	168.1	276.9	110.8	174.9	265.8
	42	135.6	150.0	325.5	130.4	156.2	313.0	125.2	162.5	300.5	120.2	169.0	288.4	115.4	175.7	276.9
	44	141.3	150.7	339.1	135.8	157.0	326.0	130.4	163.3	313.0	125.2	169.8	300.5	120.2	176.6	288.4
	45	147.2	151.5	353.2	141.5	157.8	339.6	135.8	164.1	326.0	130.4	170.7	313.0	125.2	177.5	300.5
	46	153.0	152.2	367.3	147.2	158.6	353.2	141.3	164.9	339.1	135.6	171.5	325.5	130.2	178.4	312.5
	48	159.2	153.0	382.0	153.0	159.4	367.3	146.9	165.8	352.6	141.0	172.4	338.5	135.4	179.3	325.0
	50	165.5	153.8	397.3	159.2	160.2	382.0	152.8	166.6	366.7	146.7	173.2	352.1	140.8	180.2	338.0
HY 5CPA155	40	139.1	158.5	333.9	133.8	165.1	321.1	128.4	171.7	308.2	123.3	178.6	295.9	118.4	185.7	284.0
	42	144.9	159.3	347.8	139.3	165.9	334.4	133.8	172.6	321.1	128.4	179.5	308.2	123.3	186.6	295.9
	44	151.0	160.1	362.3	145.2	166.8	348.4	139.3	173.4	334.4	133.8	180.4	321.1	128.4	187.6	308.2
	45	157.2	160.9	377.4	151.2	167.6	362.9	145.2	174.3	348.4	139.3	181.3	334.4	133.8	188.5	321.1
	46	163.5	161.7	392.5	157.2	168.4	377.4	151.0	175.2	362.3	144.9	182.2	347.8	139.1	189.5	333.9
	48	170.1	162.5	408.2	163.5	169.3	392.5	157.0	176.1	376.8	150.7	183.1	361.7	144.7	190.4	347.3
	50	176.9	163.3	424.5	170.1	170.1	408.2	163.3	176.9	391.9	156.7	184.0	376.2	150.5	191.4	361.1

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R410A - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA171	40	153.8	178.1	369.2	147.9	185.5	355.0	142.0	192.9	340.8	136.3	200.6	327.2	130.9	208.7	314.1
	42	160.3	179.0	384.6	154.1	186.4	369.8	147.9	193.9	355.0	142.0	201.6	340.8	136.3	209.7	327.2
	44	166.9	179.9	400.6	160.5	187.4	385.2	154.1	194.9	369.8	147.9	202.6	355.0	142.0	210.8	340.8
	45	173.9	180.8	417.3	167.2	188.3	401.3	160.5	195.8	385.2	154.1	203.7	369.8	147.9	211.8	355.0
	46	180.8	181.7	434.0	173.9	189.2	417.3	166.9	196.8	400.6	160.3	204.7	384.6	153.8	212.9	369.2
	48	188.1	182.6	451.4	180.8	190.2	434.0	173.6	197.8	416.7	166.7	205.7	400.0	160.0	213.9	384.0
	50	195.6	183.5	469.4	188.1	191.1	451.4	180.6	198.8	433.3	173.3	206.7	416.0	166.4	215.0	399.4
HY 5CPA182	40	166.1	190.7	398.6	159.7	198.7	383.3	153.3	206.6	367.9	147.2	214.9	353.2	141.3	223.5	339.1
	42	173.0	191.7	415.2	166.3	199.7	399.2	159.7	207.7	383.3	153.3	216.0	367.9	147.2	224.6	353.2
	44	180.2	192.7	432.5	173.3	200.7	415.9	166.3	208.7	399.2	159.7	217.1	383.3	153.3	225.8	367.9
	45	187.7	193.6	450.5	180.5	201.7	433.2	173.3	209.8	415.9	166.3	218.2	399.2	159.7	226.9	383.3
	46	195.2	194.6	468.5	187.7	202.7	450.5	180.2	210.8	432.5	173.0	219.2	415.2	166.1	228.0	398.6
	48	203.0	195.6	487.3	195.2	203.7	468.5	187.4	211.9	449.8	179.9	220.3	431.8	172.7	229.2	414.5
	50	211.2	196.6	506.8	203.0	204.7	487.3	194.9	212.9	467.8	187.1	221.4	449.1	179.6	230.3	431.1
HY 5CPA194	40	180.3	205.7	432.6	173.3	214.3	416.0	166.4	222.8	399.3	159.7	231.7	383.4	153.3	241.0	368.0
	42	187.8	206.7	450.6	180.5	215.3	433.3	173.3	223.9	416.0	166.4	232.9	399.3	159.7	242.2	383.4
	44	195.6	207.8	469.4	188.1	216.4	451.4	180.5	225.1	433.3	173.3	234.1	416.0	166.4	243.4	399.3
	45	203.7	208.8	489.0	195.9	217.5	470.2	188.1	226.2	451.4	180.5	235.2	433.3	173.3	244.7	416.0
	46	211.9	209.8	508.5	203.7	218.6	489.0	195.6	227.3	469.4	187.8	236.4	450.6	180.3	245.9	432.6
	48	220.4	210.9	528.9	211.9	219.7	508.5	203.4	228.5	488.2	195.3	237.6	468.7	187.5	247.1	449.9
	50	229.2	211.9	550.0	220.4	220.8	528.9	211.5	229.6	507.7	203.1	238.8	487.4	195.0	248.3	467.9
HY 5CPA206	40	185.5	211.4	445.2	178.4	220.2	428.1	171.2	229.0	410.9	164.4	238.1	394.5	157.8	247.7	378.7
	42	193.2	212.4	463.7	185.8	221.3	445.9	178.4	230.1	428.1	171.2	239.3	410.9	164.4	248.9	394.5
	44	201.3	213.5	483.1	193.5	222.4	464.5	185.8	231.3	445.9	178.4	240.5	428.1	171.2	250.2	410.9
	45	209.7	214.6	503.2	201.6	223.5	483.8	193.5	232.4	464.5	185.8	241.7	445.9	178.4	251.4	428.1
	46	218.1	215.6	523.3	209.7	224.6	503.2	201.3	233.6	483.1	193.2	242.9	463.7	185.5	252.7	445.2
	48	226.8	216.7	544.3	218.1	225.7	523.3	209.3	234.8	502.4	201.0	244.2	482.3	192.9	253.9	463.0
	50	235.8	217.8	566.0	226.8	226.9	544.3	217.7	235.9	522.5	209.0	245.4	501.6	200.6	255.2	481.5

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R407C - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA025	40	22.3	25.3	53.4	21.4	26.4	51.4	20.6	27.5	49.3	19.7	28.6	47.4	18.9	29.7	45.5
	42	23.2	25.5	55.7	22.3	26.5	53.5	21.4	27.6	51.4	20.6	28.7	49.3	19.7	29.8	47.4
	44	24.2	25.6	58.0	23.2	26.7	55.8	22.3	27.7	53.5	21.4	28.8	51.4	20.6	30.0	49.3
	45	25.2	25.7	60.4	24.2	26.8	58.1	23.2	27.9	55.8	22.3	29.0	53.5	21.4	30.1	51.4
	46	26.2	25.9	62.8	25.2	26.9	60.4	24.2	28.0	58.0	23.2	29.1	55.7	22.3	30.3	53.4
	48	27.2	26.0	65.3	26.2	27.1	62.8	25.1	28.2	60.3	24.1	29.3	57.9	23.2	30.4	55.6
	50	28.3	26.1	67.9	27.2	27.2	65.3	26.1	28.3	62.7	25.1	29.4	60.2	24.1	30.6	57.8
HY 5CPA030	40	25.9	29.1	62.3	24.9	30.3	59.9	24.0	31.6	57.5	23.0	32.8	55.2	22.1	34.1	53.0
	42	27.0	29.3	64.9	26.0	30.5	62.4	24.9	31.7	59.9	24.0	33.0	57.5	23.0	34.3	55.2
	44	28.2	29.4	67.6	27.1	30.6	65.0	26.0	31.9	62.4	24.9	33.1	59.9	24.0	34.5	57.5
	45	29.3	29.6	70.4	28.2	30.8	67.7	27.1	32.0	65.0	26.0	33.3	62.4	24.9	34.6	59.9
	46	30.5	29.7	73.2	29.3	31.0	70.4	28.2	32.2	67.6	27.0	33.5	64.9	25.9	34.8	62.3
	48	31.7	29.9	76.1	30.5	31.1	73.2	29.3	32.4	70.3	28.1	33.6	67.5	27.0	35.0	64.8
	50	33.0	30.0	79.2	31.7	31.3	76.1	30.5	32.5	73.1	29.2	33.8	70.2	28.1	35.2	67.4
HY 5CPA034	40	29.5	32.8	70.9	28.4	34.2	68.2	27.3	35.5	65.4	26.2	37.0	62.8	25.1	38.5	60.3
	42	30.8	33.0	73.8	29.6	34.4	71.0	28.4	35.7	68.2	27.3	37.2	65.4	26.2	38.6	62.8
	44	32.0	33.1	76.9	30.8	34.5	74.0	29.6	35.9	71.0	28.4	37.3	68.2	27.3	38.8	65.4
	45	33.4	33.3	80.1	32.1	34.7	77.0	30.8	36.1	74.0	29.6	37.5	71.0	28.4	39.0	68.2
	46	34.7	33.5	83.3	33.4	34.9	80.1	32.0	36.3	76.9	30.8	37.7	73.8	29.5	39.2	70.9
	48	36.1	33.6	86.7	34.7	35.0	83.3	33.3	36.4	80.0	32.0	37.9	76.8	30.7	39.4	73.7
	50	37.6	33.8	90.1	36.1	35.2	86.7	34.7	36.6	83.2	33.3	38.1	79.9	31.9	39.6	76.7
HY 5CPA040	40	36.8	42.5	88.3	35.4	44.2	84.9	34.0	46.0	81.5	32.6	47.8	78.3	31.3	49.8	75.1
	42	38.3	42.7	92.0	36.9	44.5	88.5	35.4	46.2	84.9	34.0	48.1	81.5	32.6	50.0	78.3
	44	39.9	42.9	95.8	38.4	44.7	92.2	36.9	46.5	88.5	35.4	48.3	84.9	34.0	50.3	81.5
	45	41.6	43.1	99.8	40	44.9	96.0	38.4	46.7	92.2	36.9	48.6	88.5	35.4	50.5	84.9
	46	43.3	43.3	103.8	41.6	45.1	99.8	39.9	46.9	95.8	38.3	48.8	92.0	36.8	50.8	88.3
	48	45.0	43.5	108.0	43.3	45.4	103.8	41.5	47.2	99.7	39.9	49.1	95.7	38.3	51.0	91.9
	50	46.8	43.8	112.3	45.0	45.6	108.0	43.2	47.4	103.7	41.5	49.3	99.5	39.8	51.3	95.5
HY 5CPA046	40	41.6	46.1	99.8	40.0	48.1	96.0	38.4	50.0	92.1	36.9	52.0	88.5	35.4	54.1	84.9
	42	43.3	46.4	104.0	41.7	48.3	100.0	40.0	50.2	96.0	38.4	52.3	92.1	36.9	54.3	88.5
	44	45.1	46.6	108.3	43.4	48.6	104.1	41.7	50.5	100.0	40.0	52.5	96.0	38.4	54.6	92.1
	45	47.0	46.8	112.8	45.2	48.8	108.5	43.4	50.8	104.1	41.7	52.8	100.0	40.0	54.9	96.0
	46	48.9	47.1	117.3	47.0	49.0	112.8	45.1	51.0	108.3	43.3	53.0	104.0	41.6	55.2	99.8
	48	50.8	47.3	122.0	48.9	49.3	117.3	46.9	51.3	112.6	45.1	53.3	108.1	43.3	55.4	103.8
	50	52.9	47.6	126.9	50.8	49.5	122.0	48.8	51.5	117.1	46.9	53.6	112.5	45.0	55.7	108.0

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R407C - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA052	40	46.4	49.8	111.3	44.6	51.9	107.0	42.8	54.0	102.7	41.1	56.1	98.6	39.5	58.4	94.7
	42	48.3	50.1	115.9	46.4	52.2	111.5	44.6	54.3	107.0	42.8	56.4	102.7	41.1	58.7	98.6
	44	50.3	50.3	120.8	48.4	52.4	116.1	46.4	54.5	111.5	44.6	56.7	107.0	42.8	59.0	102.7
	45	52.4	50.6	125.8	50.4	52.7	121.0	48.4	54.8	116.1	46.4	57.0	111.5	44.6	59.3	107.0
	46	54.5	50.8	130.8	52.4	53.0	125.8	50.3	55.1	120.8	48.3	57.3	115.9	46.4	59.6	111.3
	48	56.7	51.1	136.1	54.5	53.2	130.8	52.3	55.4	125.6	50.2	57.6	120.6	48.2	59.9	115.8
	50	59.0	51.4	141.5	56.7	53.5	136.1	54.4	55.6	130.6	52.2	57.9	125.4	50.2	60.2	120.4
HY 5CPA059	40	55.2	63.6	132.5	53.1	66.3	127.4	51.0	68.9	122.3	48.9	71.7	117.4	47.0	74.6	112.7
	42	57.5	64.0	138.0	55.3	66.6	132.7	53.1	69.3	127.4	51.0	72.1	122.3	48.9	74.9	117.4
	44	59.9	64.3	143.8	57.6	67.0	138.2	55.3	69.6	132.7	53.1	72.4	127.4	51.0	75.3	122.3
	45	62.4	64.6	149.8	60	67.3	144.0	57.6	70.0	138.2	55.3	72.8	132.7	53.1	75.7	127.4
	46	64.9	64.9	155.8	62.4	67.6	149.8	59.9	70.3	143.8	57.5	73.2	138.0	55.2	76.1	132.5
	48	67.5	65.3	162.0	64.9	68.0	155.8	62.3	70.7	149.5	59.8	73.5	143.5	57.4	76.5	137.8
	50	70.2	65.6	168.5	67.5	68.3	162.0	64.8	71.0	155.5	62.2	73.9	149.3	59.7	76.8	143.3
HY 5CPA068	40	61.2	67.3	146.9	58.8	70.1	141.2	56.5	72.9	135.6	54.2	75.9	130.1	52.1	78.9	124.9
	42	63.7	67.7	153.0	61.3	70.5	147.1	58.8	73.3	141.2	56.5	76.2	135.6	54.2	79.3	130.1
	44	66.4	68.0	159.3	63.8	70.8	153.2	61.3	73.7	147.1	58.8	76.6	141.2	56.5	79.7	135.6
	45	69.2	68.4	166.0	66.5	71.2	159.6	63.8	74.0	153.2	61.3	77.0	147.1	58.8	80.1	141.2
	46	71.9	68.7	172.6	69.2	71.6	166.0	66.4	74.4	159.3	63.7	77.4	153.0	61.2	80.5	146.9
	48	74.8	69.0	179.5	71.9	71.9	172.6	69.0	74.8	165.7	66.3	77.8	159.1	63.6	80.9	152.7
	50	77.8	69.4	186.7	74.8	72.3	179.5	71.8	75.2	172.3	68.9	78.2	165.5	66.2	81.3	158.8
HY 5CPA079	40	69.6	74.7	166.9	66.9	77.8	160.5	64.2	80.9	154.1	61.6	84.2	147.9	59.2	87.5	142.0
	42	72.5	75.1	173.9	69.7	78.2	167.2	66.9	81.3	160.5	64.2	84.6	154.1	61.6	88.0	147.9
	44	75.5	75.5	181.1	72.6	78.6	174.2	69.7	81.7	167.2	66.9	85.0	160.5	64.2	88.4	154.1
	45	78.6	75.8	188.7	75.6	79	181.4	72.6	82.2	174.2	69.7	85.4	167.2	66.9	88.9	160.5
	46	81.8	76.2	196.2	78.6	79.4	188.7	75.5	82.6	181.1	72.5	85.9	173.9	69.6	89.3	166.9
	48	85.0	76.6	204.1	81.8	79.8	196.2	78.5	83.0	188.4	75.4	86.3	180.9	72.3	89.8	173.6
	50	88.4	77.0	212.3	85.0	80.2	204.1	81.6	83.4	195.9	78.4	86.7	188.1	75.2	90.2	180.6
HY 5CPA091	40	83.2	92.2	199.6	80.0	96.0	192.0	76.8	99.9	184.3	73.7	103.9	176.9	70.8	108.0	169.8
	42	86.6	92.7	207.9	83.3	96.5	200.0	80.0	100.4	192.0	76.8	104.4	184.3	73.7	108.6	176.9
	44	90.3	93.1	216.6	86.8	97.0	208.3	83.3	100.9	200.0	80.0	104.9	192.0	76.8	109.1	184.3
	45	94.0	93.6	225.6	90.4	97.5	217.0	86.8	101.4	208.3	83.3	105.5	200.0	80.0	109.7	192.0
	46	97.8	94.1	234.7	94.0	98.0	225.6	90.3	101.9	216.6	86.6	106.0	207.9	83.2	110.2	199.6
	48	101.7	94.5	244.1	97.8	98.5	234.7	93.9	102.4	225.3	90.1	106.5	216.3	86.5	110.8	207.6
	50	105.8	95.0	253.8	101.7	99.0	244.1	97.6	102.9	234.3	93.7	107.0	224.9	90.0	111.3	215.9

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R407C - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA103	40	92.7	99.6	222.6	89.2	103.7	214.0	85.6	107.9	205.5	82.2	112.2	197.3	78.9	116.7	189.4
	42	96.6	100.1	231.9	92.9	104.2	223.0	89.2	108.4	214.0	85.6	112.8	205.5	82.2	117.3	197.3
	44	100.6	100.6	241.5	96.8	104.8	232.2	92.9	109.0	223.0	89.2	113.3	214.0	85.6	117.9	205.5
	45	104.8	101.1	251.6	100.8	105.3	241.9	96.8	109.5	232.2	92.9	113.9	223.0	89.2	118.4	214.0
	46	109.0	101.6	261.7	104.8	105.8	251.6	100.6	110.1	241.5	96.6	114.5	231.9	92.7	119.0	222.6
	48	113.4	102.1	272.1	109.0	106.4	261.7	104.7	110.6	251.2	100.5	115.0	241.1	96.5	119.6	231.5
	50	117.9	102.6	283.0	113.4	106.9	272.1	108.9	111.2	261.2	104.5	115.6	250.8	100.3	120.2	240.8
HY 5CPA119	40	115.9	124.5	278.2	111.5	129.7	267.5	107.0	134.9	256.8	102.7	140.3	246.6	98.6	145.9	236.7
	42	120.8	125.2	289.8	116.1	130.4	278.7	111.5	135.6	267.5	107.0	141.0	256.8	102.7	146.7	246.6
	44	125.8	125.8	301.9	121.0	131.0	290.3	116.1	136.3	278.7	111.5	141.7	267.5	107.0	147.4	256.8
	45	131.0	126.4	314.5	126	131.7	302.4	121.0	137.0	290.3	116.1	142.4	278.7	111.5	148.1	267.5
	46	136.3	127.1	327.1	131.0	132.4	314.5	125.8	137.7	301.9	120.8	143.2	289.8	115.9	148.9	278.2
	48	141.7	127.7	340.2	136.3	133.0	327.1	130.8	138.3	314.0	125.6	143.9	301.4	120.6	149.6	289.4
	50	147.4	128.3	353.8	141.7	133.7	340.2	136.1	139.0	326.6	130.6	144.6	313.5	125.4	150.4	301.0
HY 5CPA131	40	118.7	130.9	284.9	114.1	136.3	273.9	109.6	141.8	263.0	105.2	147.5	252.4	101.0	153.4	242.3
	42	123.6	131.5	296.7	118.9	137.0	285.3	114.1	142.5	273.9	109.6	148.2	263.0	105.2	154.1	252.4
	44	128.8	132.2	309.1	123.8	137.7	297.2	118.9	143.2	285.3	114.1	148.9	273.9	109.6	154.9	263.0
	45	134.2	132.9	322.0	129	138.4	309.6	123.8	143.9	297.2	118.9	149.7	285.3	114.1	155.7	273.9
	46	139.5	133.5	334.9	134.2	139.1	322.0	128.8	144.7	309.1	123.6	150.4	296.7	118.7	156.5	284.9
	48	145.1	134.2	348.3	139.5	139.8	334.9	133.9	145.4	321.5	128.6	151.2	308.6	123.4	157.2	296.3
	50	150.9	134.9	362.2	145.1	140.5	348.3	139.3	146.1	334.3	133.7	152.0	321.0	128.4	158.0	308.1
HY 5CPA143	40	130.7	142.0	313.8	125.7	148.0	301.7	120.7	153.9	289.7	115.9	160.0	278.1	111.2	166.4	267.0
	42	136.2	142.8	326.9	131.0	148.7	314.3	125.7	154.6	301.7	120.7	160.8	289.7	115.9	167.3	278.1
	44	141.9	143.5	340.5	136.4	149.4	327.4	131.0	155.4	314.3	125.7	161.6	301.7	120.7	168.1	289.7
	45	147.8	144.2	354.7	142.1	150.2	341.0	136.4	156.2	327.4	131.0	162.5	314.3	125.7	169.0	301.7
	46	153.7	144.9	368.9	147.8	151.0	354.7	141.9	157.0	340.5	136.2	163.3	326.9	130.7	169.8	313.8
	48	159.8	145.6	383.6	153.7	151.7	368.9	147.5	157.8	354.1	141.6	164.1	339.9	136.0	170.6	326.4
	50	166.2	146.4	399.0	159.8	152.5	383.6	153.4	158.6	368.3	147.3	164.9	353.5	141.4	171.5	339.4
HY 5CPA155	40	139.1	149.4	333.9	133.8	155.6	321.1	128.4	161.9	308.2	123.3	168.3	295.9	118.4	175.1	284.0
	42	144.9	150.2	347.8	139.3	156.4	334.4	133.8	162.7	321.1	128.4	169.2	308.2	123.3	176.0	295.9
	44	151.0	150.9	362.3	145.2	157.2	348.4	139.3	163.5	334.4	133.8	170.0	321.1	128.4	176.8	308.2
	45	157.2	151.7	377.4	151.2	158	362.9	145.2	164.3	348.4	139.3	170.9	334.4	133.8	177.7	321.1
	46	163.5	152.4	392.5	157.2	158.8	377.4	151.0	165.1	362.3	144.9	171.7	347.8	139.1	178.6	333.9
	48	170.1	153.2	408.2	163.5	159.6	392.5	157.0	166.0	376.8	150.7	172.6	361.7	144.7	179.5	347.3
	50	176.9	154.0	424.5	170.1	160.4	408.2	163.3	166.8	391.9	156.7	173.5	376.2	150.5	180.4	361.1

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R407C - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA171	40	155.5	173.3	373.2	149.5	180.6	358.8	143.5	187.8	344.5	137.8	195.3	330.7	132.3	203.1	317.5
	42	162.0	174.2	388.8	155.8	181.5	373.8	149.5	188.7	358.8	143.5	196.3	344.5	137.8	204.1	330.7
	44	168.7	175.1	405.0	162.2	182.4	389.4	155.8	189.7	373.8	149.5	197.3	358.8	143.5	205.2	344.5
	45	175.8	176.0	421.8	169	183.3	405.6	162.2	190.6	389.4	155.8	198.3	373.8	149.5	206.2	358.8
	46	182.8	176.8	438.7	175.8	184.2	421.8	168.7	191.6	405.0	162.0	199.2	388.8	155.5	207.2	373.2
	48	190.1	177.7	456.2	182.8	185.1	438.7	175.5	192.5	421.1	168.5	200.2	404.3	161.7	208.3	388.1
	50	197.7	178.6	474.5	190.1	186.1	456.2	182.5	193.5	438.0	175.2	201.2	420.5	168.2	209.3	403.7
HY 5CPA182	40	167.6	184.5	402.1	161.1	192.2	386.7	154.7	199.9	371.2	148.5	207.9	356.4	142.5	216.2	342.1
	42	174.5	185.4	418.9	167.8	193.2	402.8	161.1	200.9	386.7	154.7	208.9	371.2	148.5	217.3	356.4
	44	181.8	186.4	436.3	174.8	194.1	419.6	167.8	201.9	402.8	161.1	210.0	386.7	154.7	218.4	371.2
	45	189.4	187.3	454.5	182.1	195.1	437.0	174.8	202.9	419.6	167.8	211.0	402.8	161.1	219.5	386.7
	46	197.0	188.2	472.7	189.4	196.1	454.5	181.8	203.9	436.3	174.5	212.1	418.9	167.6	220.6	402.1
	48	204.8	189.2	491.6	197.0	197.1	472.7	189.1	204.9	453.8	181.5	213.1	435.6	174.3	221.7	418.2
	50	213.0	190.1	511.3	204.8	198.0	491.6	196.6	206.0	471.9	188.8	214.2	453.1	181.2	222.8	434.9
HY 5CPA194	40	180.7	195.6	433.7	173.8	203.7	417.0	166.8	211.9	400.3	160.1	220.3	384.3	153.7	229.1	369.0
	42	188.2	196.5	451.8	181.0	204.7	434.4	173.8	212.9	417.0	166.8	221.4	400.3	160.1	230.3	384.3
	44	196.1	197.5	470.6	188.5	205.8	452.5	181.0	214.0	434.4	173.8	222.6	417.0	166.8	231.5	400.3
	45	204.3	198.5	490.2	196.4	206.8	471.4	188.5	215.1	452.5	181.0	223.7	434.4	173.8	232.6	417.0
	46	212.4	199.5	509.8	204.3	207.8	490.2	196.1	216.1	470.6	188.2	224.8	451.8	180.7	233.8	433.7
	48	220.9	200.5	530.2	212.4	208.9	509.8	203.9	217.2	489.4	195.8	225.9	469.9	187.9	235.0	451.1
	50	229.8	201.5	551.4	220.9	209.9	530.2	212.1	218.3	509.0	203.6	227.0	488.6	195.5	236.1	469.1
HY 5CPA206	40	185.5	199.3	445.2	178.4	207.6	428.1	171.2	215.9	410.9	164.4	224.5	394.5	157.8	233.5	378.7
	42	193.2	200.3	463.7	185.8	208.6	445.9	178.4	216.9	428.1	171.2	225.6	410.9	164.4	234.6	394.5
	44	201.3	201.3	483.1	193.5	209.6	464.5	185.8	218.0	445.9	178.4	226.8	428.1	171.2	235.8	410.9
	45	209.7	202.3	503.2	201.6	210.7	483.8	193.5	219.1	464.5	185.8	227.9	445.9	178.4	237.0	428.1
	46	218.1	203.3	523.3	209.7	211.8	503.2	201.3	220.2	483.1	193.2	229.0	463.7	185.5	238.2	445.2
	48	226.8	204.3	544.3	218.1	212.8	523.3	209.3	221.3	502.4	201.0	230.2	482.3	192.9	239.4	463.0
	50	235.8	205.3	566.0	226.8	213.9	544.3	217.7	222.4	522.5	209.0	231.3	501.6	200.6	240.6	481.5

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R22 - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA025	40	23.6	25.7	56.5	22.6	26.8	54.4	21.7	27.9	52.2	20.9	29.0	50.1	20.0	30.1	48.1
	42	24.5	25.9	58.9	23.6	26.9	56.6	22.6	28.0	54.4	21.7	29.1	52.2	20.9	30.3	50.1
	44	25.6	26.0	61.3	24.6	27.1	59.0	23.6	28.1	56.6	22.6	29.3	54.4	21.7	30.4	52.2
	45	26.6	26.1	63.9	25.6	27.2	61.4	24.6	28.3	59.0	23.6	29.4	56.6	22.6	30.6	54.4
	46	27.7	26.2	66.5	26.6	27.3	63.9	25.6	28.4	61.3	24.5	29.6	58.9	23.6	30.7	56.5
	48	28.8	26.4	69.1	27.7	27.5	66.5	26.6	28.6	63.8	25.5	29.7	61.2	24.5	30.9	58.8
	50	29.9	26.5	71.9	28.8	27.6	69.1	27.6	28.7	66.3	26.5	29.9	63.7	25.5	31.1	61.1
HY 5CPA030	40	27.0	29.2	64.7	25.9	30.4	62.2	24.9	31.7	59.7	23.9	32.9	57.3	22.9	34.2	55.0
	42	28.1	29.4	67.4	27.0	30.6	64.8	25.9	31.8	62.2	24.9	33.1	59.7	23.9	34.4	57.3
	44	29.3	29.5	70.2	28.1	30.7	67.5	27.0	32.0	64.8	25.9	33.3	62.2	24.9	34.6	59.7
	45	30.5	29.7	73.1	29.3	30.9	70.3	28.1	32.1	67.5	27.0	33.4	64.8	25.9	34.8	62.2
	46	31.7	29.8	76.1	30.5	31.1	73.1	29.3	32.3	70.2	28.1	33.6	67.4	27.0	34.9	64.7
	48	33.0	30.0	79.1	31.7	31.2	76.1	30.4	32.5	73.0	29.2	33.8	70.1	28.0	35.1	67.3
	50	34.3	30.1	82.3	33.0	31.4	79.1	31.6	32.6	75.9	30.4	33.9	72.9	29.2	35.3	70.0
HY 5CPA034	40	30.6	33.0	73.5	29.5	34.4	70.7	28.3	35.8	67.9	27.2	37.2	65.2	26.1	38.7	62.6
	42	31.9	33.2	76.6	30.7	34.6	73.7	29.5	35.9	70.7	28.3	37.4	67.9	27.2	38.9	65.2
	44	33.2	33.3	79.8	32.0	34.7	76.7	30.7	36.1	73.7	29.5	37.6	70.7	28.3	39.1	67.9
	45	34.6	33.5	83.1	33.3	34.9	79.9	32.0	36.3	76.7	30.7	37.7	73.7	29.5	39.3	70.7
	46	36.0	33.7	86.4	34.6	35.1	83.1	33.2	36.5	79.8	31.9	37.9	76.6	30.6	39.5	73.5
	48	37.5	33.8	89.9	36.0	35.2	86.4	34.6	36.7	83.0	33.2	38.1	79.7	31.9	39.7	76.5
	50	39.0	34.0	93.5	37.5	35.4	89.9	36.0	36.8	86.3	34.5	38.3	82.9	33.1	39.8	79.5
HY 5CPA040	40	37.7	42.5	90.5	36.3	44.2	87.1	34.8	46.0	83.6	33.4	47.8	80.2	32.1	49.8	77.0
	42	39.3	42.7	94.3	37.8	44.5	90.7	36.3	46.2	87.1	34.8	48.1	83.6	33.4	50.0	80.2
	44	40.9	42.9	98.2	39.4	44.7	94.5	37.8	46.5	90.7	36.3	48.3	87.1	34.8	50.3	83.6
	45	42.6	43.1	102.3	41	44.9	98.4	39.4	46.7	94.5	37.8	48.6	90.7	36.3	50.5	87.1
	46	44.3	43.3	106.4	42.6	45.1	102.3	40.9	46.9	98.2	39.3	48.8	94.3	37.7	50.8	90.5
	48	46.1	43.5	110.7	44.3	45.4	106.4	42.6	47.2	102.2	40.9	49.1	98.1	39.2	51.0	94.2
	50	48.0	43.8	115.1	46.1	45.6	110.7	44.3	47.4	106.3	42.5	49.3	102.0	40.8	51.3	97.9
HY 5CPA046	40	42.1	46.6	101.1	40.5	48.6	97.3	38.9	50.5	93.4	37.3	52.5	89.6	35.9	54.6	86.0
	42	43.9	46.9	105.4	42.2	48.8	101.3	40.5	50.8	97.3	38.9	52.8	93.4	37.3	54.9	89.6
	44	45.7	47.1	109.7	44.0	49.1	105.5	42.2	51.0	101.3	40.5	53.1	97.3	38.9	55.2	93.4
	45	47.6	47.3	114.3	45.8	49.3	109.9	44.0	51.3	105.5	42.2	53.3	101.3	40.5	55.5	97.3
	46	49.5	47.6	118.9	47.6	49.5	114.3	45.7	51.5	109.7	43.9	53.6	105.4	42.1	55.7	101.1
	48	51.5	47.8	123.6	49.5	49.8	118.9	47.6	51.8	114.1	45.7	53.9	109.6	43.8	56.0	105.2
	50	53.6	48.0	128.6	51.5	50.0	123.6	49.5	52.0	118.7	47.5	54.1	114.0	45.6	56.3	109.4

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

RR22 - P22- Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA052	40	46.6	50.8	111.7	44.8	52.9	107.4	43.0	55.0	103.1	41.3	57.2	99.0	39.6	59.5	95.1
	42	48.5	51.0	116.4	46.6	53.2	111.9	44.8	55.3	107.4	43.0	57.5	103.1	41.3	59.8	99.0
	44	50.5	51.3	121.2	48.6	53.4	116.6	46.6	55.6	111.9	44.8	57.8	107.4	43.0	60.1	103.1
	45	52.6	51.6	126.3	50.6	53.7	121.4	48.6	55.8	116.6	46.6	58.1	111.9	44.8	60.4	107.4
	46	54.7	51.8	131.3	52.6	54.0	126.3	50.5	56.1	121.2	48.5	58.4	116.4	46.6	60.7	111.7
	48	56.9	52.1	136.6	54.7	54.2	131.3	52.5	56.4	126.1	50.4	58.7	121.1	48.4	61.0	116.2
	50	59.2	52.3	142.1	56.9	54.5	136.6	54.6	56.7	131.1	52.5	59.0	125.9	50.4	61.3	120.9
HY 5CPA059	40	56.6	63.6	135.8	54.4	66.3	130.6	52.2	68.9	125.4	50.1	71.7	120.3	48.1	74.6	115.5
	42	58.9	64.0	141.5	56.7	66.6	136.0	54.4	69.3	130.6	52.2	72.1	125.4	50.1	74.9	120.3
	44	61.4	64.3	147.4	59.0	67.0	141.7	56.7	69.6	136.0	54.4	72.4	130.6	52.2	75.3	125.4
	45	64.0	64.6	153.5	61.5	67.3	147.6	59.0	70.0	141.7	56.7	72.8	136.0	54.4	75.7	130.6
	46	66.5	64.9	159.6	64.0	67.6	153.5	61.4	70.3	147.4	58.9	73.2	141.5	56.6	76.1	135.8
	48	69.2	65.3	166.0	66.5	68.0	159.6	63.9	70.7	153.3	61.3	73.5	147.1	58.9	76.5	141.2
	50	71.9	65.6	172.7	69.2	68.3	166.0	66.4	71.0	159.4	63.8	73.9	153.0	61.2	76.8	146.9
HY 5CPA068	40	61.7	68.2	148.2	59.4	71.0	142.5	57.0	73.9	136.8	54.7	76.8	131.3	52.5	79.9	126.1
	42	64.3	68.5	154.4	61.8	71.4	148.4	59.4	74.2	142.5	57.0	77.2	136.8	54.7	80.3	131.3
	44	67.0	68.9	160.8	64.4	71.7	154.6	61.8	74.6	148.4	59.4	77.6	142.5	57.0	80.7	136.8
	45	69.8	69.2	167.5	67.1	72.1	161.0	64.4	75.0	154.6	61.8	78.0	148.4	59.4	81.1	142.5
	46	72.6	69.6	174.2	69.8	72.5	167.5	67.0	75.4	160.8	64.3	78.4	154.4	61.7	81.5	148.2
	48	75.5	69.9	181.1	72.6	72.8	174.2	69.7	75.7	167.2	66.9	78.8	160.5	64.2	81.9	154.1
	50	78.5	70.3	188.4	75.5	73.2	181.1	72.5	76.1	173.9	69.6	79.2	166.9	66.8	82.3	160.3
HY 5CPA079	40	69.8	76.1	167.6	67.2	79.3	161.2	64.5	82.5	154.7	61.9	85.8	148.5	59.4	89.2	142.6
	42	72.7	76.5	174.6	69.9	79.7	167.9	67.2	82.9	161.2	64.5	86.2	154.7	61.9	89.6	148.5
	44	75.8	76.9	181.9	72.9	80.1	174.9	69.9	83.3	167.9	67.2	86.6	161.2	64.5	90.1	154.7
	45	78.9	77.3	189.4	75.9	80.5	182.2	72.9	83.7	174.9	69.9	87.1	167.9	67.2	90.6	161.2
	46	82.1	77.7	197.0	78.9	80.9	189.4	75.8	84.1	181.9	72.7	87.5	174.6	69.8	91.0	167.6
	48	85.4	78.1	204.9	82.1	81.3	197.0	78.8	84.6	189.1	75.7	87.9	181.6	72.6	91.5	174.3
	50	88.8	78.4	213.1	85.4	81.7	204.9	82.0	85.0	196.7	78.7	88.4	188.8	75.5	91.9	181.3
HY 5CPA091	40	84.3	93.1	202.3	81.0	97.0	194.5	77.8	100.9	186.7	74.7	104.9	179.3	71.7	109.1	172.1
	42	87.8	93.6	210.7	84.4	97.5	202.6	81.0	101.4	194.5	77.8	105.5	186.7	74.7	109.7	179.3
	44	91.5	94.1	219.5	87.9	98.0	211.0	84.4	101.9	202.6	81.0	106.0	194.5	77.8	110.2	186.7
	45	95.3	94.6	228.6	91.6	98.5	219.8	87.9	102.4	211.0	84.4	106.5	202.6	81.0	110.8	194.5
	46	99.1	95.0	237.8	95.3	99.0	228.6	91.5	103.0	219.5	87.8	107.1	210.7	84.3	111.4	202.3
	48	103.0	95.5	247.3	99.1	99.5	237.8	95.1	103.5	228.3	91.3	107.6	219.1	87.7	111.9	210.4
	50	107.2	96.0	257.2	103.0	100.0	247.3	98.9	104.0	237.4	95.0	108.1	227.9	91.2	112.5	218.8

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R22 - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA103	40	93.1	101.5	223.5	89.5	105.7	214.9	86.0	109.9	206.3	82.5	114.3	198.0	79.2	118.9	190.1
	42	97.0	102.0	232.8	93.3	106.2	223.8	89.5	110.5	214.9	86.0	114.9	206.3	82.5	119.5	198.0
	44	101.0	102.5	242.5	97.2	106.8	233.2	93.3	111.0	223.8	89.5	115.5	214.9	86.0	120.1	206.3
	45	105.2	103.0	252.6	101.2	107.3	242.9	97.2	111.6	233.2	93.3	116.1	223.8	89.5	120.7	214.9
	46	109.5	103.5	262.7	105.2	107.8	252.6	101.0	112.1	242.5	97.0	116.6	232.8	93.1	121.3	223.5
	48	113.8	104.0	273.2	109.5	108.4	262.7	105.1	112.7	252.2	100.9	117.2	242.1	96.8	121.9	232.4
	50	118.4	104.6	284.1	113.8	108.9	273.2	109.3	113.3	262.3	104.9	117.8	251.8	100.7	122.5	241.7
HY 5CPA119	40	116.4	126.9	279.4	111.9	132.2	268.6	107.4	137.5	257.9	103.1	143.0	247.5	99.0	148.7	237.6
	42	121.2	127.5	291.0	116.6	132.9	279.8	111.9	138.2	268.6	107.4	143.7	257.9	103.1	149.5	247.5
	44	126.3	128.2	303.1	121.4	133.5	291.5	116.6	138.9	279.8	111.9	144.4	268.6	107.4	150.2	257.9
	45	131.6	128.8	315.7	126.5	134.2	303.6	121.4	139.6	291.5	116.6	145.2	279.8	111.9	151.0	268.6
	46	136.8	129.5	328.4	131.6	134.9	315.7	126.3	140.3	303.1	121.2	145.9	291.0	116.4	151.7	279.4
	48	142.3	130.1	341.5	136.8	135.5	328.4	131.3	141.0	315.2	126.1	146.6	302.6	121.1	152.5	290.5
	50	148.0	130.8	355.2	142.3	136.2	341.5	136.6	141.7	327.8	131.1	147.3	314.7	125.9	153.2	302.1
HY 5CPA131	40	120.1	132.9	288.2	115.5	138.4	277.1	110.8	143.9	266.0	106.4	149.7	255.4	102.1	155.7	245.2
	42	125.1	133.5	300.2	120.3	139.1	288.6	115.5	144.7	277.1	110.8	150.4	266.0	106.4	156.5	255.4
	44	130.3	134.2	312.7	125.3	139.8	300.7	120.3	145.4	288.6	115.5	151.2	277.1	110.8	157.3	266.0
	45	135.7	134.9	325.7	130.5	140.5	313.2	125.3	146.1	300.7	120.3	152.0	288.6	115.5	158.0	277.1
	46	141.1	135.6	338.8	135.7	141.2	325.7	130.3	146.9	312.7	125.1	152.7	300.2	120.1	158.8	288.2
	48	146.8	136.2	352.3	141.1	141.9	338.8	135.5	147.6	325.2	130.1	153.5	312.2	124.9	159.6	299.7
	50	152.7	136.9	366.4	146.8	142.6	352.3	140.9	148.3	338.2	135.3	154.3	324.7	129.9	160.4	311.7
HY 5CPA143	40	131.6	144.3	315.8	126.5	150.3	303.6	121.5	156.3	291.5	116.6	162.6	279.8	111.9	169.1	268.6
	42	137.1	145.0	328.9	131.8	151.1	316.3	126.5	157.1	303.6	121.5	163.4	291.5	116.6	169.9	279.8
	44	142.8	145.8	342.7	137.3	151.8	329.5	131.8	157.9	316.3	126.5	164.2	303.6	121.5	170.8	291.5
	45	148.7	146.5	356.9	143	152.6	343.2	137.3	158.7	329.5	131.8	165.1	316.3	126.5	171.7	303.6
	46	154.7	147.2	371.2	148.7	153.4	356.9	142.8	159.5	342.7	137.1	165.9	328.9	131.6	172.5	315.8
	48	160.9	148.0	386.1	154.7	154.1	371.2	148.5	160.3	356.4	142.5	166.7	342.1	136.8	173.4	328.4
	50	167.3	148.7	401.5	160.9	154.9	386.1	154.4	161.1	370.6	148.2	167.5	355.8	142.3	174.2	341.6
HY 5CPA155	40	139.7	152.3	335.2	134.3	158.6	322.3	128.9	164.9	309.4	123.8	171.5	297.1	118.8	178.4	285.2
	42	145.5	153.0	349.2	139.9	159.4	335.8	134.3	165.8	322.3	128.9	172.4	309.4	123.8	179.3	297.1
	44	151.6	153.8	363.7	145.7	160.2	349.7	139.9	166.6	335.8	134.3	173.3	322.3	128.9	180.2	309.4
	45	157.9	154.6	378.9	151.8	161	364.3	145.7	167.4	349.7	139.9	174.1	335.8	134.3	181.1	322.3
	46	164.2	155.3	394.0	157.9	161.8	378.9	151.6	168.3	363.7	145.5	175.0	349.2	139.7	182.0	335.2
	48	170.8	156.1	409.8	164.2	162.6	394.0	157.6	169.1	378.3	151.3	175.9	363.2	145.3	182.9	348.6
	50	177.6	156.9	426.2	170.8	163.4	409.8	163.9	170.0	393.4	157.4	176.8	377.7	151.1	183.8	362.6

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

R22 - Performance Data

Model	Leaving Water Temperature (F)	Air Temperature (F)														
		86			95			104			115			122		
		TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM	TR	KW	GPM
HY 5CPA171	40	157.8	175.3	378.7	151.7	182.6	364.2	145.7	189.9	349.6	139.8	197.5	335.6	134.2	205.4	322.2
	42	164.4	176.2	394.5	158.1	183.6	379.3	151.7	190.9	364.2	145.7	198.5	349.6	139.8	206.5	335.6
	44	171.2	177.1	410.9	164.6	184.5	395.1	158.1	191.9	379.3	151.7	199.5	364.2	145.7	207.5	349.6
	45	178.4	178.0	428.1	171.5	185.4	411.6	164.6	192.8	395.1	158.1	200.5	379.3	151.7	208.5	364.2
	46	185.5	178.9	445.2	178.4	186.3	428.1	171.2	193.8	410.9	164.4	201.5	394.5	157.8	209.6	378.7
	48	192.9	179.8	463.0	185.5	187.3	445.2	178.1	194.7	427.4	171.0	202.5	410.3	164.1	210.6	393.9
	50	200.6	180.7	481.5	192.9	188.2	463.0	185.2	195.7	444.5	177.8	203.6	426.7	170.7	211.7	409.6
HY 5CPA182	40	169.3	186.8	406.3	162.8	194.6	390.7	156.3	202.3	375.1	150.0	210.4	360.1	144.0	218.8	345.7
	42	176.4	187.7	423.3	169.6	195.5	407.0	162.8	203.4	390.7	156.3	211.5	375.1	150.0	219.9	360.1
	44	183.7	188.7	440.9	176.6	196.5	423.9	169.6	204.4	407.0	162.8	212.5	390.7	156.3	221.0	375.1
	45	191.4	189.6	459.3	184	197.5	441.6	176.6	205.4	423.9	169.6	213.6	407.0	162.8	222.2	390.7
	46	199.0	190.5	477.6	191.4	198.5	459.3	183.7	206.4	440.9	176.4	214.7	423.3	169.3	223.3	406.3
	48	207.0	191.5	496.7	199.0	199.5	477.6	191.1	207.5	458.5	183.4	215.8	440.2	176.1	224.4	422.6
	50	215.3	192.5	516.6	207.0	200.5	496.7	198.7	208.5	476.9	190.7	216.8	457.8	183.1	225.5	439.5
HY 5CPA194	40	181.8	198.9	436.4	174.8	207.2	419.6	167.8	215.4	402.8	161.1	224.1	386.7	154.7	233.0	371.2
	42	189.4	199.9	454.5	182.1	208.2	437.1	174.8	216.5	419.6	167.8	225.2	402.8	161.1	234.2	386.7
	44	197.3	200.9	473.5	189.7	209.2	455.3	182.1	217.6	437.1	174.8	226.3	419.6	167.8	235.4	402.8
	45	205.5	201.9	493.2	197.6	210.3	474.2	189.7	218.7	455.3	182.1	227.5	437.1	174.8	236.6	419.6
	46	213.7	202.9	512.9	205.5	211.4	493.2	197.3	219.8	473.5	189.4	228.6	454.5	181.8	237.7	436.4
	48	222.3	203.9	533.5	213.7	212.4	512.9	205.2	220.9	492.4	197.0	229.7	472.7	189.1	238.9	453.8
	50	231.2	204.9	554.8	222.3	213.5	533.5	213.4	222.0	512.1	204.8	230.9	491.6	196.7	240.1	472.0
HY 5CPA206	40	186.2	203.0	447.0	179.1	211.5	429.8	171.9	220.0	412.6	165.0	228.8	396.1	158.4	237.9	380.2
	42	194.0	204.1	465.6	186.5	212.6	447.7	179.1	221.1	429.8	171.9	229.9	412.6	165.0	239.1	396.1
	44	202.1	205.1	485.0	194.3	213.6	466.3	186.5	222.2	447.7	179.1	231.1	429.8	171.9	240.3	412.6
	45	210.5	206.1	505.2	202.4	214.7	485.8	194.3	223.3	466.3	186.5	232.2	447.7	179.1	241.5	429.8
	46	218.9	207.1	525.4	210.5	215.8	505.2	202.1	224.4	485.0	194.0	233.4	465.6	186.2	242.7	447.0
	48	227.7	208.2	546.4	218.9	216.9	525.4	210.2	225.5	504.4	201.8	234.5	484.2	193.7	243.9	464.8
	50	236.8	209.2	568.3	227.7	217.9	546.4	218.6	226.7	524.6	209.8	235.7	503.6	201.4	245.1	483.4

- KW power input includes compressor and fan motor only and it does not include pump.
- Performance data are based on 9F water range in evaporator.

POWER SUPPLY
THIS WIRING DIAGRAM SUITS

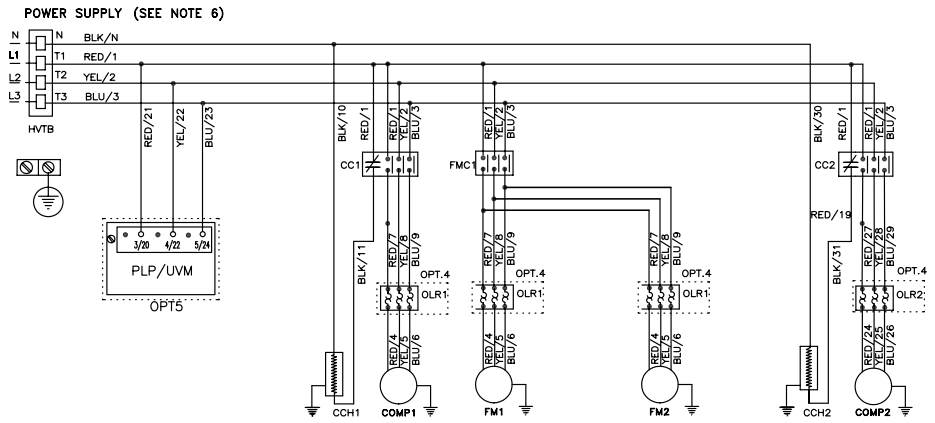
380–420 V / 3 PH / 50 HZ WITH NEUTRAL
380V / 3 PH / 60 HZ WITH NEUTRAL

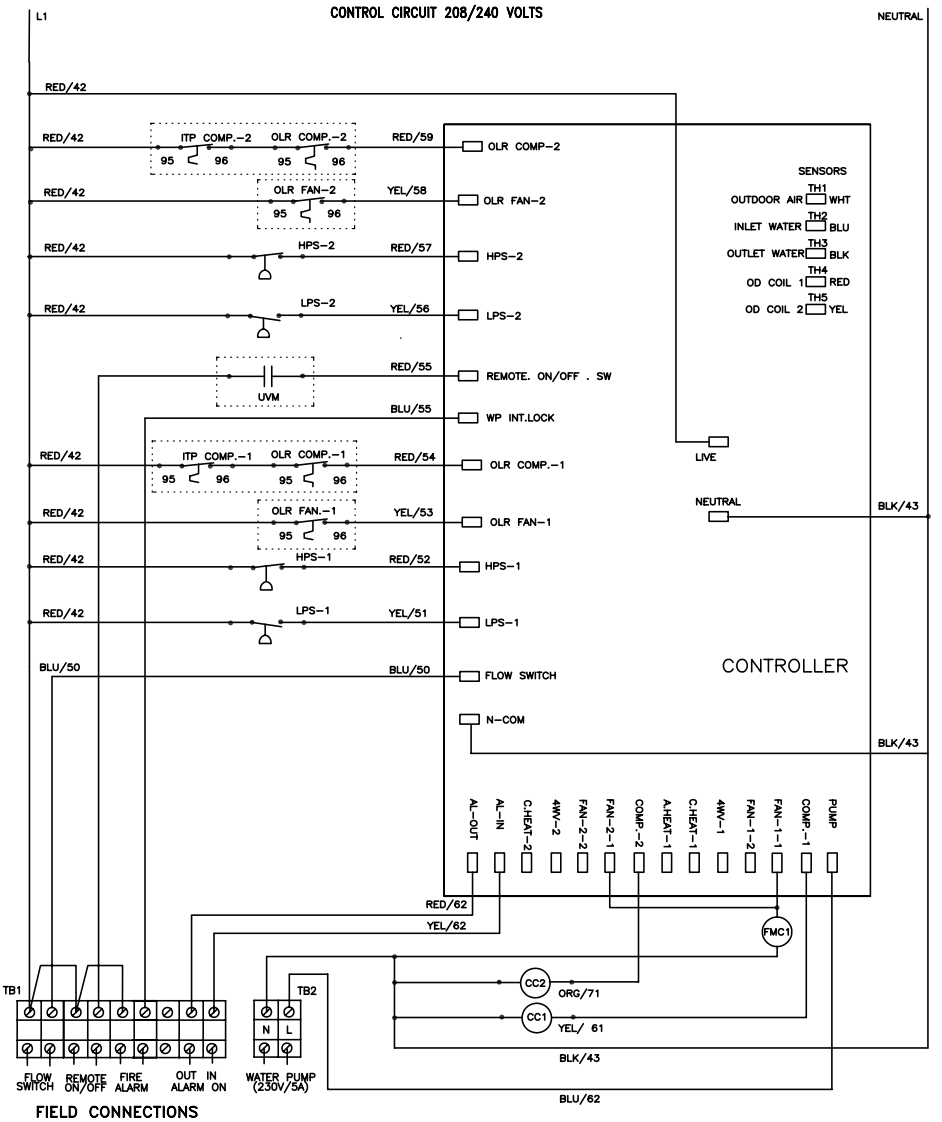
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR CHILLER UNITS

AWAL GULF MANUFACTURING Co. BSC (C)
SITRA, BAHRAIN.

WARNING
THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION WILL MAKE WARRANTY NULL & VOID.





FIELD CONNECTIONS
NOTE– PROVIDE JUMPERS IF REMOTE ON /OFF & FIRE ALARM NOT CONNECTED

LEGEND

BLK – BLACK
BLU – BLUE
BRN – BROWN
CC – COMP CONTACTOR
CCH – CRANK CASE HEATER
COM – COMMON
COMP – COMPRESSOR
CR – CONTROL RELAY
ES – EMERGENCY SWITCH
F – FUSE
FL.SW – FLOW SWITCH
FM – FAN MOTOR
FMC – FAN MOTOR CONTACTOR
HPS – HIGH PRESSURE SWITCH
HVTB – HIGH VOLTAGE TERMINAL BLOCK
L – LINE
LPR – LOW PRESSURE SW. RELAY
LPS – LOW PRESSURE SWITCH
LVTB – LOW VOLTAGE TERMINAL BLOCK
MCB – MAIN CIRCUIT BREAKER
N – NEUTRAL
NC – NORMALLY CLOSED
NO – NORMALLY OPEN
OLR – OVER LOAD RELAY
OPT – OPTIONAL
PD – PUMP DOWN SOLENOID
PLP – PHASE LOSS PROTECTION
PRI – PRIMARY
RED – RED
SEC – SECONDARY
ILS – INTERNAL LOCK SWIYCH OR FIRE ALARM
UVM – UNDER VOLTAGE MONITOR
WP – WATER PUMP
YC – COOLING RELAY
YEL – YELLOW
— — – FIELD WIRING
• – TERMINAL / SPLICE
····· – OPTIONAL MARKING
⏚ – E– EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT
   380–420 V/3PH/60HZ WITH NEUTRAL
   380V/3PH/60HZ WITH NEUTRAL
7) REFER INSTRUCTIONS WITH THE COMPONENTS FOR CONTROL LOGIC AND SETTING

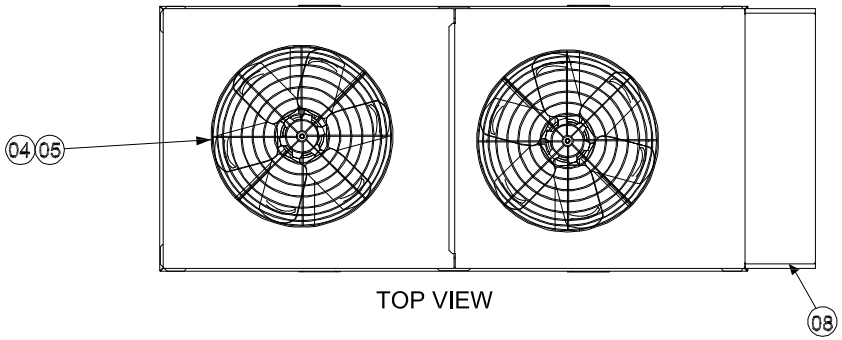
WIR.DIA–380V– CHR–MIC–PRO

C240109a | 1BC011718–1 | 00

25, 30, 34TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

UNIT DIMENSIONS	
UNIT HEIGHT	1620 mm (WITH BASE)
UNIT HEIGHT	2480 mm
UNIT HEIGHT	1110 mm

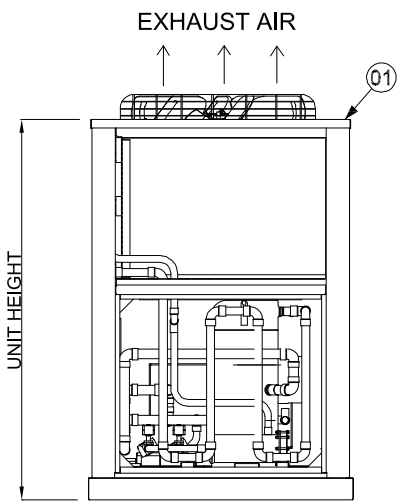
PRELIMINARY GA



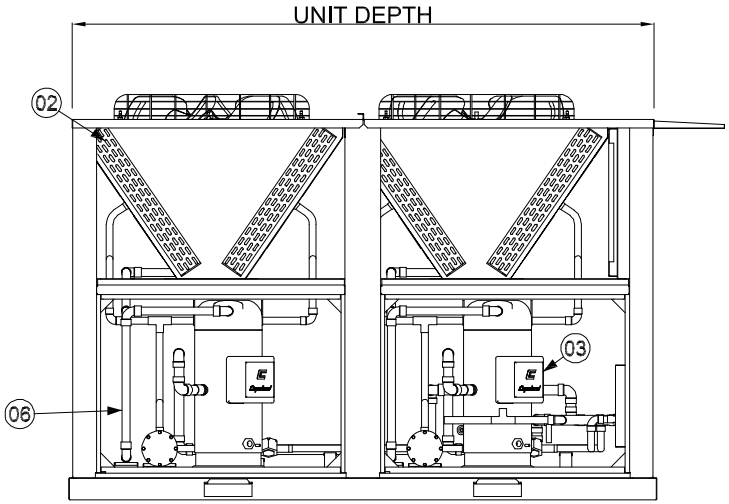
TOP VIEW

LEGENDS:

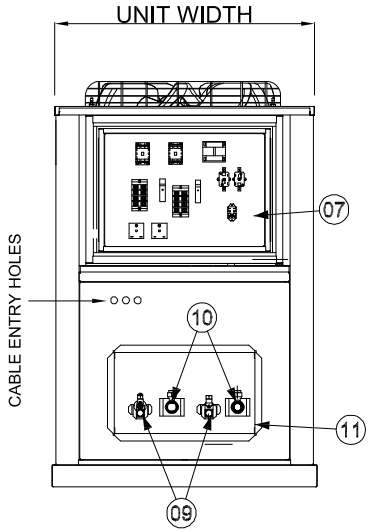
01. SHEET METAL BODY
02. "V" TYPE CONDENSER COILS (2NOS)
03. SCROLL COMPRESSORS (2NOS)
04. EXHAUST FAN WITH MOTOR (2NOS)
05. FAN GRILL
06. COMPRESSOR ACCESS
07. ELECTRICAL CONTROL BOX
08. RAIN CANOPY FOR CONTROL BOX
09. LIQUID SERVICE VALVES
10. SUCTION SERVICE VALVES
11. SERVICE VALVE BOX



LHS VIEW



FRONT VIEW

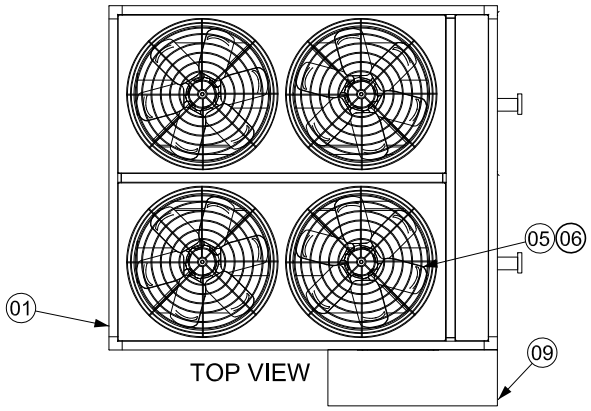


RHS VIEW

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

40, 46, 52TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

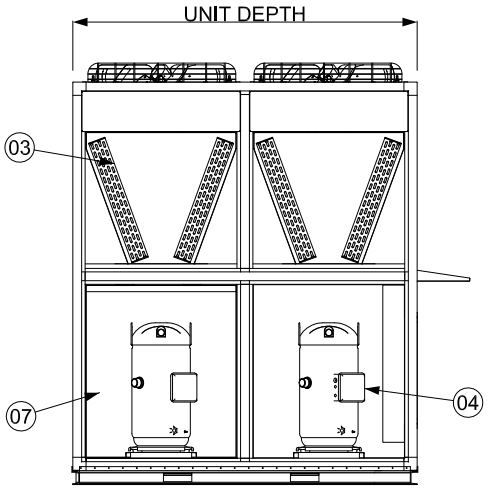
UNIT DIMENSIONS	
UNIT HEIGHT	2300 mm (WITH BASE)
UNIT DEPTH	2450 mm
UNIT WIDTH	2200 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (NORMAL)



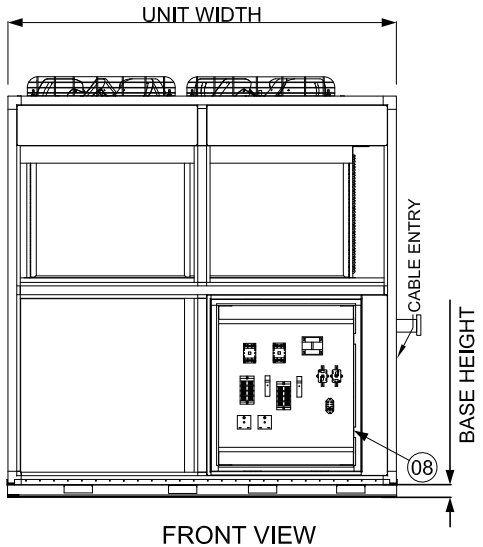
TOP VIEW

LEGENDS:

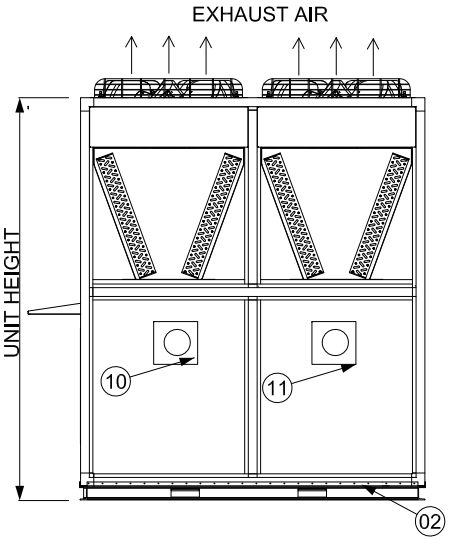
01. ALUMINIUM PROFILE BODY
02. MS STRUCTURAL UNIT BASE
03. "V" TYPE CONDENSER COILS(2NOS)
04. SCROLL COMPRESSORS(2NOS)
05. EXHAUST FAN WITH MOTOR(4NOS)
06. FAN GRILL
07. COMPRESSOR ACCESS
08. ELECTRICAL CONTROL BOX
09. RAIN CANOPY FOR CONTROL BOX
10. CHILLED WATER IN
11. CHILLED WATER OUT



LHS VIEW (COMPRESSOR ACCESS)



FRONT VIEW



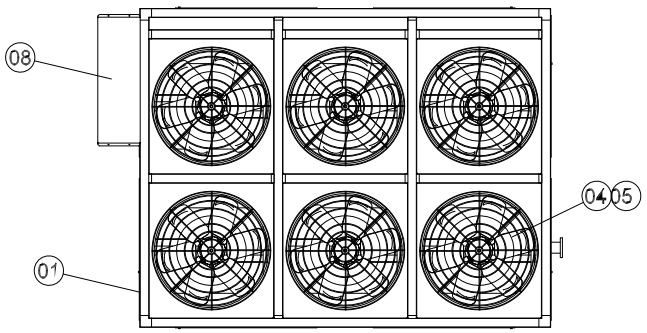
RHS VIEW (WATER CONNECTION)

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

59, 68, 79TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

UNIT DIMENSIONS	
**UNIT HEIGHT	**2300 mm (WITH BASE)
UNIT DEPTH	2900 mm
*UNIT WIDTH	*2250 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (THERMAL)

PRELIMINARY GA

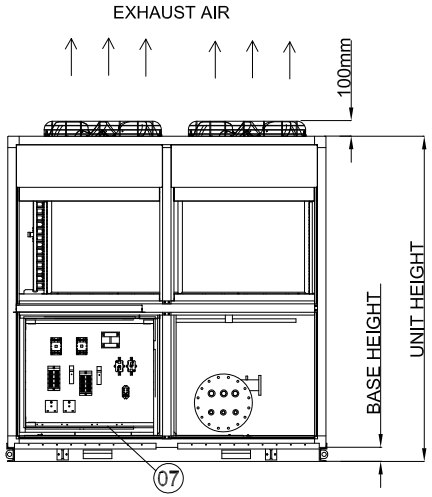


TOP VIEW

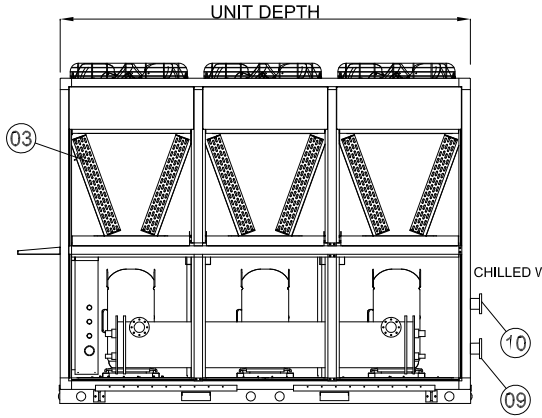
LEGENDS:

01. ALUMINIUM PROFILE BODY
02. MS STRUCTIRAL UNIT BASE
03. "V" TYPE CONDENSER COILS (3NOS)
04. EXHAUST FAN WITH MOTOR
05. FAN GRILL
06. COMPRESSOR ACCESS
07. ELECTRICAL CONTROL BOX
08. RAIN CANOPY FOR CONTROL BOX
09. CHILLED WATER IN
10. CHILLED WATER OUT

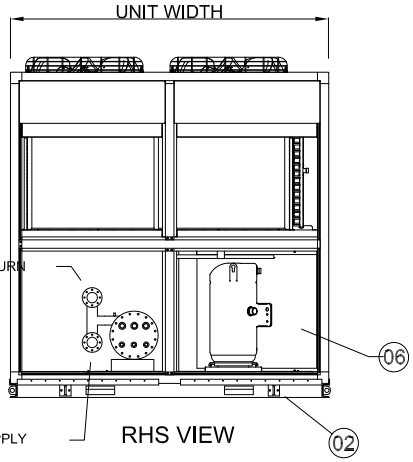
(SHELL & TUBE CHILLER PACKAGE TYPE)



LHS VIEW



FRONT VIEW



RHS VIEW

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

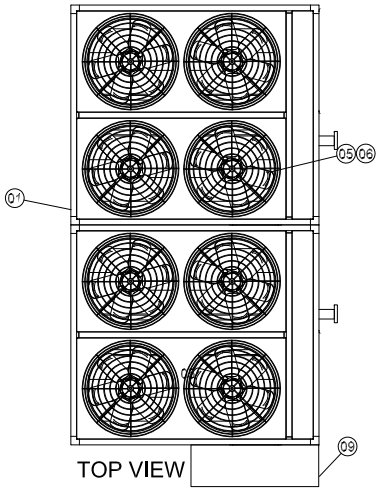
91, 103TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

UNIT DIMENSIONS	
UNIT HEIGHT	2300 mm (WITH BASE)
UNIT DEPTH	3900 mm
UNIT WIDTH	2200 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (NORMAL)

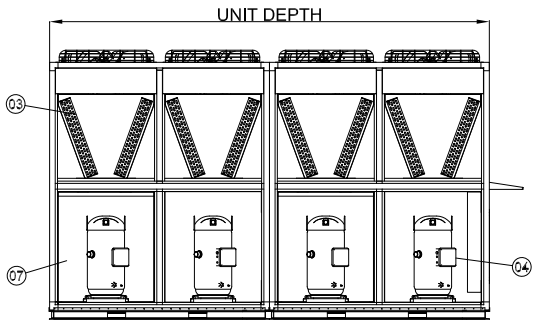
LEGENDS:

01. ALUMINIUM PROFILE BODY
02. MS STRUCTIRAL UNIT BASE
03. "V" TYPE CONDENSER COILS (4NOS)
04. SCROLL COMPRESSORS (4NOS)
05. EXHAUST FAN WITH MOTOR (8NOS)
06. FAN GRILL
07. COMPRESSOR ACCESS
08. ELECTRICAL CONTROL BOX
09. RAIN CANOPY FOR CONTROL BOX
10. WATER IN
11. WATER OUT

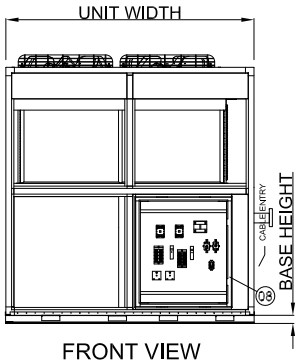
(SHELL & TUBE CHILLER PACKAGE TYPE)



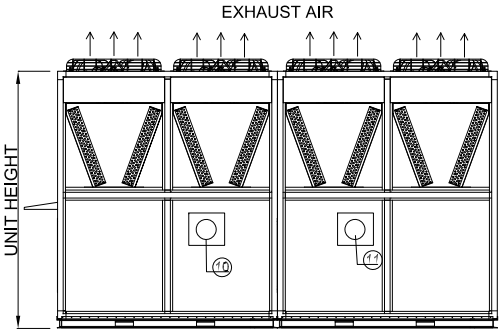
TOP VIEW



LHS VIEW (COMPRESSOR ACCESS)



FRONT VIEW

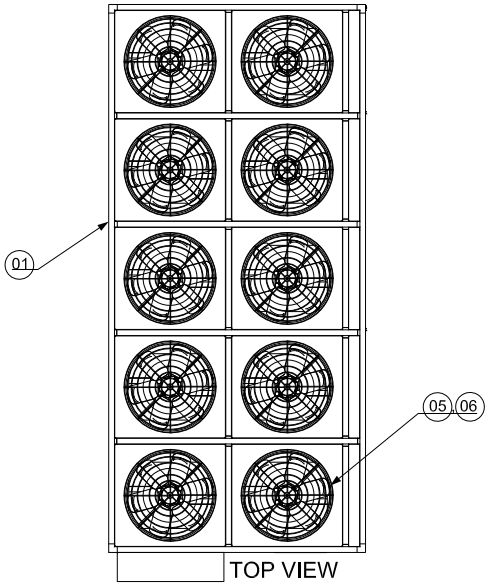


RHS VIEW (WATER CONNECTION)

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

119TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

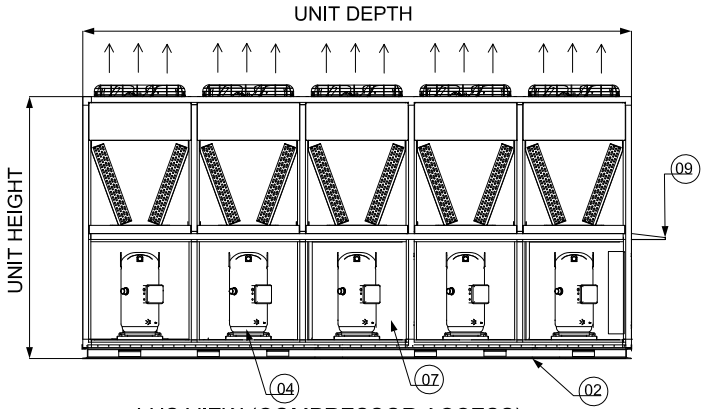
UNIT DIMENSIONS	
UNIT HEIGHT	2300 mm (WITH BASE)
UNIT DEPTH	4825 mm
UNIT WIDTH	2262 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (NORMAL)



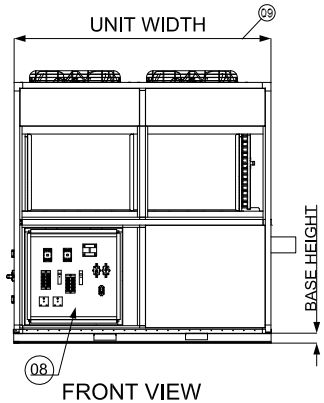
LEGENDS:

01. ALUMINIUM PROFILE BODY
02. MS STRUCTIRAL UNIT BASE
03. "V" TYPE CONDENSER COILS (5NOS)
04. SCROLL COMPRESSORS (5NOS)
05. EXHAUST FAN WITH MOTOR (10NOS)
06. FAN GRILL
07. COMPRESSOR ACCESS
08. ELECTRICAL CONTROL BOX
09. RAIN CANOPY FOR CONTROL BOX
10. WATER RETURN TO CHILLER
11. WATER SUPPLY FROM CHILLER

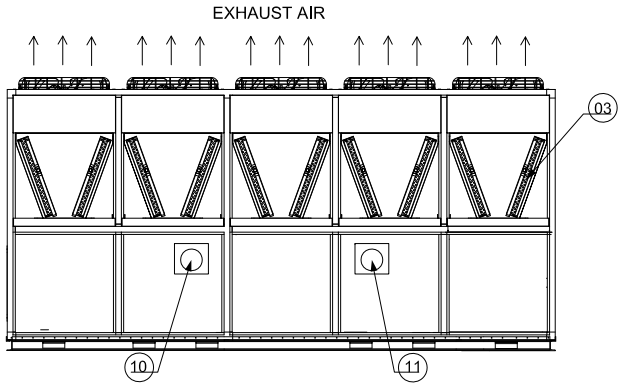
(SHELL & TUBE CHILLER PACKAGE TYPE)



LHS VIEW (COMPRESSOR ACCESS)



FRONT VIEW

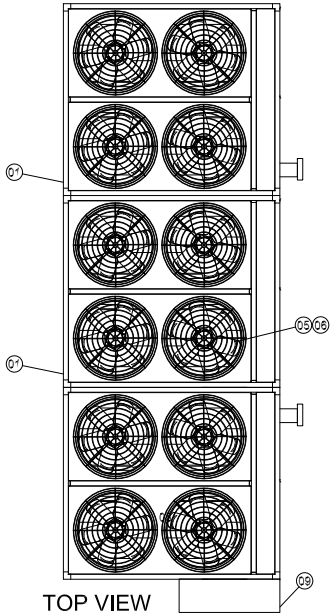


RHS VIEW (WATER CONNECTION)

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

131, 143, 155TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

UNIT DIMENSIONS	
UNIT HEIGHT	2300 mm (WITH BASE)
UNIT DEPTH	5850 mm
UNIT WIDTH	2200 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (NORMAL)

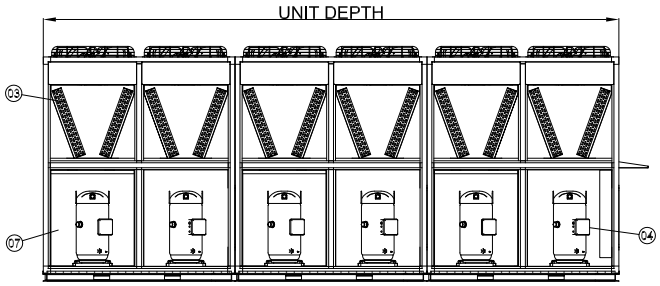


TOP VIEW

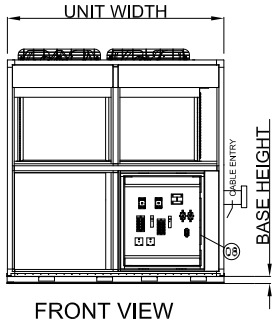
LEGENDS:

01. ALUMINIUM PROFILE BODY
02. MS STRUCTIRAL UNIT BASE
03. "V" TYPE CONDENSER COILS (6NOS)
04. SCROLL COMPRESSORS (6NOS)
05. EXHAUST FAN WITH MOTOR (12NOS)
06. FAN GRILL
07. COMPRESSOR ACCESS
08. ELECTRICAL CONTROL BOX
09. RAIN CANOPY FOR CONTROL BOX
10. WATER IN
11. WATER OUT

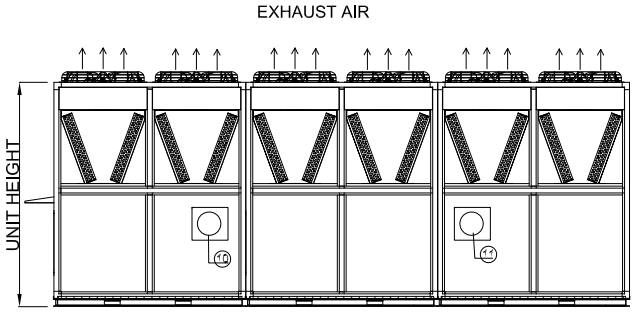
(SHELL & TUBE CHILLER PACKAGE TYPE)



LHS VIEW (COMPRESSOR ACCESS)



FRONT VIEW



RHS VIEW (WATER CONNECTION)

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

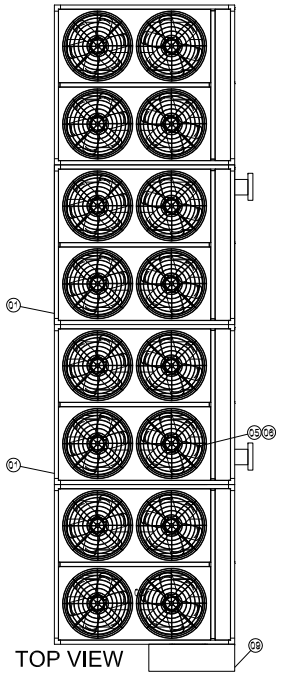
171, 182TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

UNIT DIMENSIONS	
UNIT HEIGHT	2300 mm (WITH BASE)
UNIT DEPTH	7200 mm
UNIT WIDTH	2200 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (NORMAL)

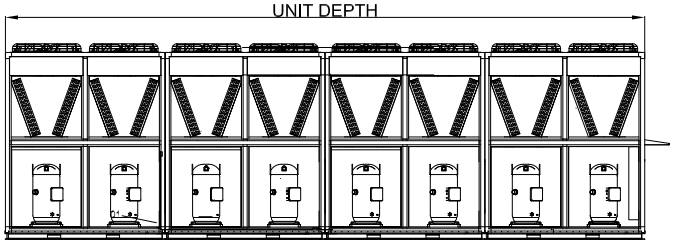
LEGENDS:

01. ALUMINIUM PROFILE BODY
02. MS STRUCTIRAL UNIT BASE
03. "V" TYPE CONDENSER COILS (8NOS)
04. SCROLL COMPRESSORS (8NOS)
05. EXHAUST FAN WITH MOTOR (16NOS)
06. FAN GRILL
07. COMPRESSOR ACCESS
08. ELECTRICAL CONTROL BOX
09. RAIN CANOPY FOR CONTROL BOX
10. WATER IN
11. WATER OUT

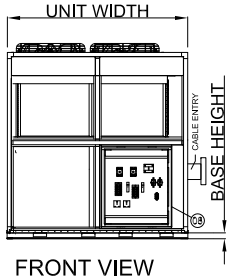
(SHELL & TUBE CHILLER PACKAGE TYPE)



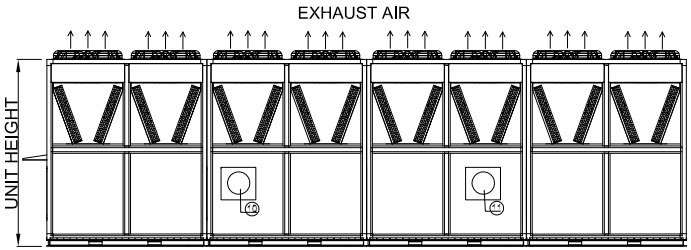
TOP VIEW



LHS VIEW (COMPRESSOR ACCESS)



FRONT VIEW

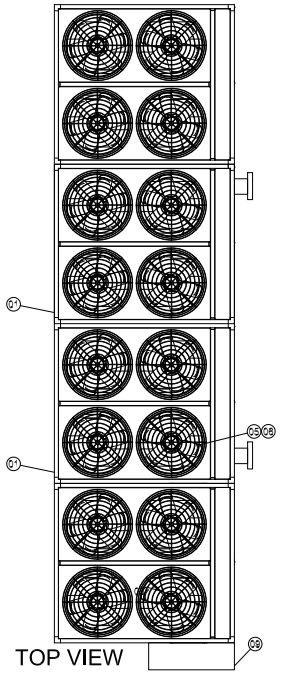


RHS VIEW (WATER CONNECTION)

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

194, 206TR SHEL & TUBE CHILLER MODEL GENERAL ARRANGEMENT LAYOUT

UNIT DIMENSIONS	
UNIT HEIGHT	2300 mm (WITH BASE)
UNIT DEPTH	7800 mm
UNIT WIDTH	2200 mm
BASE HEIGHT	100 mm
ALL PROFILE SIZE	45 mm (NORMAL)

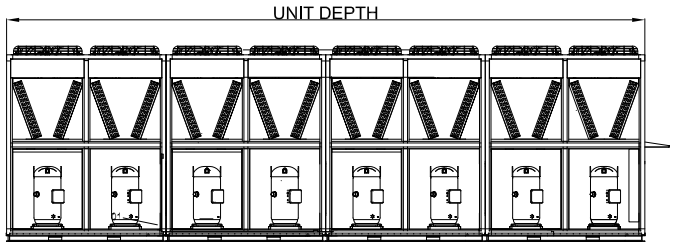


TOP VIEW

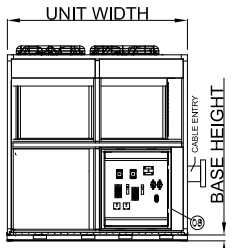
LEGENDS:

01. ALUMINIUM PROFILE BODY
02. MS STRUCTIRAL UNIT BASE
03. "V" TYPE CONDENSER COILS (8NOS)
04. SCROLL COMPRESSORS (8NOS)
05. EXHAUST FAN WITH MOTOR (16NOS)
06. FAN GRILL
07. COMPRESSOR ACCESS
08. ELECTRICAL CONTROL BOX
09. RAIN CANOPY FOR CONTROL BOX
10. WATER IN
11. WATER OUT

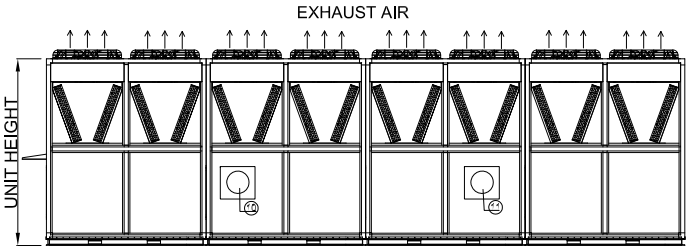
(SHELL & TUBE CHILLER PACKAGE TYPE)



LHS VIEW (COMPRESSOR ACCESS)



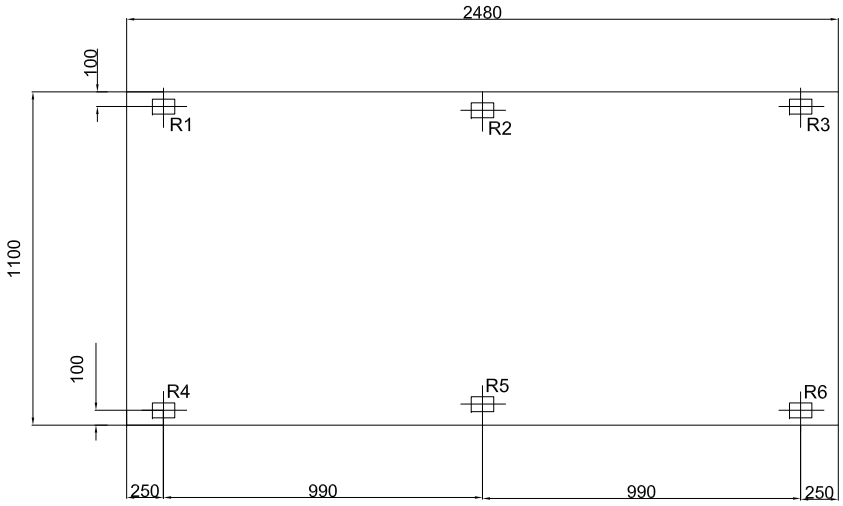
FRONT VIEW



RHS VIEW (WATER CONNECTION)

* LAYOUT ARE SUBJECT TO CHANGE WITHOUT NOTICE IN ACCORDANCE WITH OUR POLICY OF CONTINUOUS RESEARCH AND PRODUCT DEVELOPMENT".

MOUNTING DETAILS 25TR, 30TR, 34TR - CHILLER



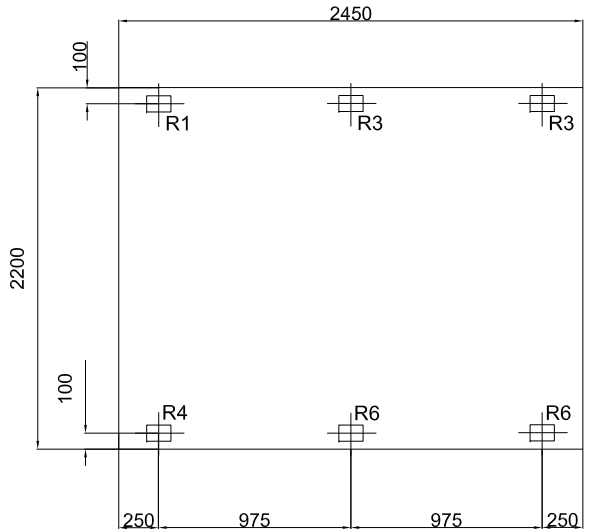
NOTE: DIMENSIONS IN (mm)

LOAD DISTRIBUTION (Kg)	
25TR-CHILLER	
R1	180
R2	155
R3	180
R4	180
R5	155
R6	180

LOAD DISTRIBUTION (Kg)	
30TR-CHILLER	
R1	190
R2	167
R3	190
R4	190
R5	167
R6	190

LOAD DISTRIBUTION (Kg)	
34TR-CHILLER	
R1	196
R2	173
R3	196
R4	196
R5	173
R6	196

MOUNTING DETAILS 40TR, 46TR, 52TR - CHILLER



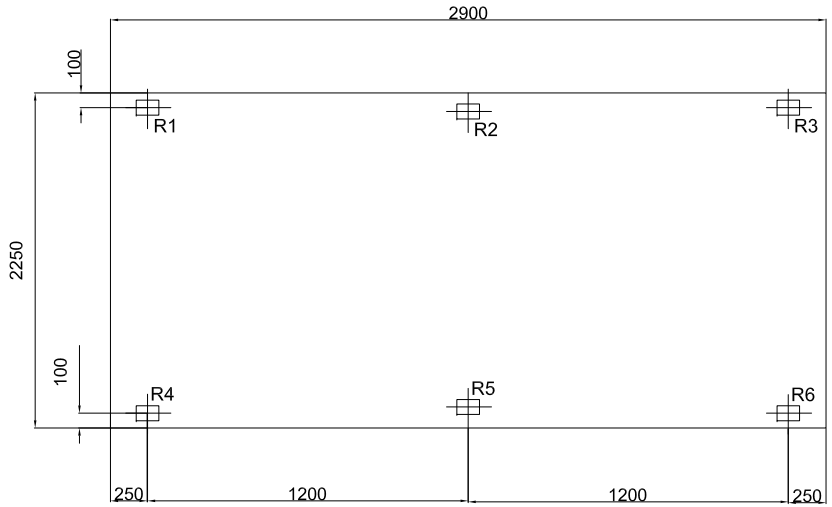
NOTE: DIMENSIONS IN (mm)

LOAD DISTRIBUTION (Kg)	
40TR-CHILLER	
R1	333
R2	311
R3	333
R4	333
R5	311
R6	333

LOAD DISTRIBUTION (Kg)	
46TR-CHILLER	
R1	335
R2	312
R3	335
R4	335
R5	312
R6	335

LOAD DISTRIBUTION (Kg)	
52TR-CHILLER	
R1	338
R2	314
R3	338
R4	338
R5	314
R6	338

MOUNTING DETAILS 59TR, 68TR, 79TR - CHILLER



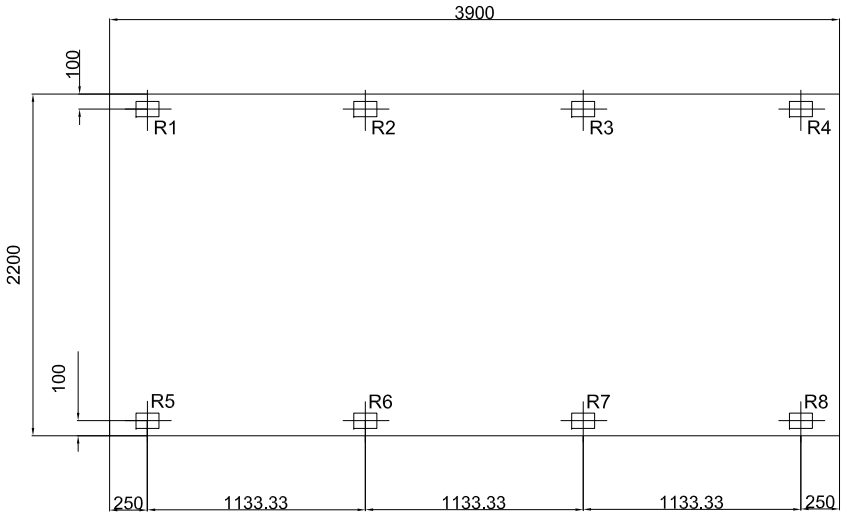
NOTE: DIMENSIONS IN (mm)

LOAD DISTRIBUTION (Kg)	
59TR-CHILLER	
R1	420
R2	395
R3	420
R4	420
R5	395
R6	420

LOAD DISTRIBUTION (Kg)	
68TR-CHILLER	
R1	421
R2	397
R3	421
R4	421
R5	397
R6	421

LOAD DISTRIBUTION (Kg)	
79TR-CHILLER	
R1	427
R2	402
R3	427
R4	427
R5	402
R6	427

MOUNTING DETAILS
91TR, 103TR -CHILLER

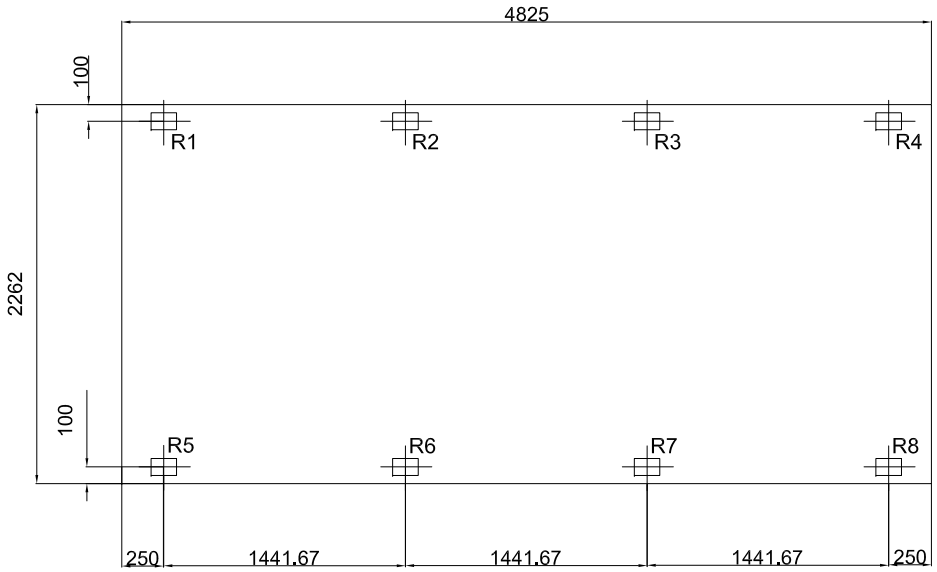


LOAD DISTRIBUTION (Kg)	
91TR-CHILLER	
R1	395
R2	370
R3	370
R4	395
R5	395
R6	370
R7	370
R8	395

LOAD DISTRIBUTION (Kg)	
103TR-CHILLER	
R1	409
R2	384
R3	384
R4	409
R5	409
R6	384
R7	384
R8	409

NOTE: DIMENSIONS IN (mm)

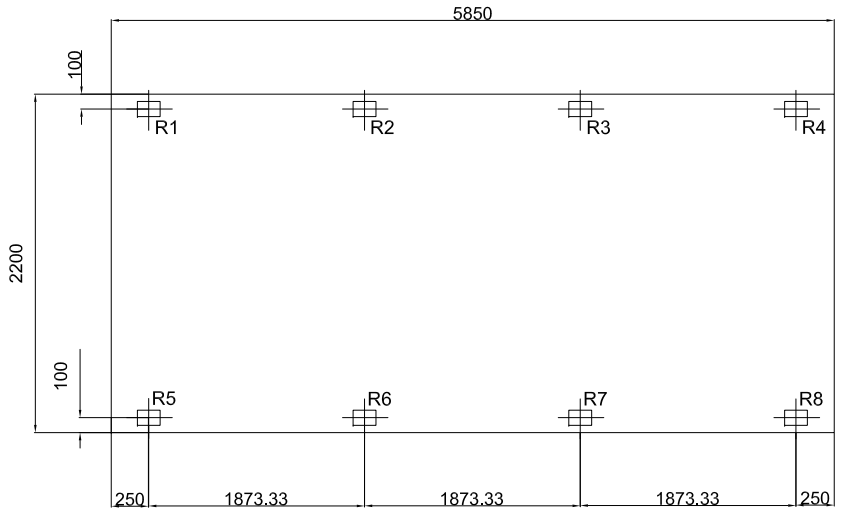
MOUNTING DETAILS
119TR - CHILLER



LOAD DISTRIBUTION (Kg)	
119TR-CHILLER	
R1	582
R2	558
R3	558
R4	582
R5	582
R6	558
R7	558
R8	582

NOTE: DIMENSIONS IN (mm)

MOUNTING DETAILS
131TR, 143TR, 155TR - CHILLER



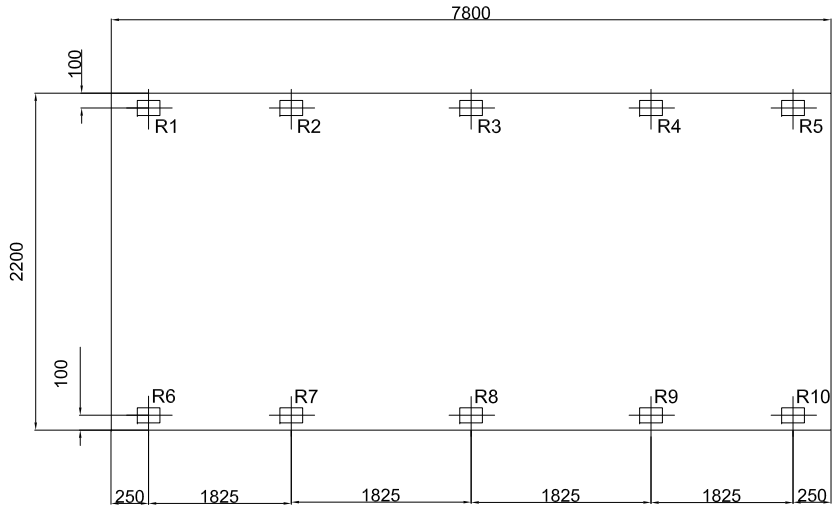
NOTE: DIMENSIONS IN (mm)

LOAD DISTRIBUTION (Kg)	
131TR-CHILLER	
R1	665
R2	640
R3	640
R4	665
R5	665
R6	640
R7	640
R8	665

LOAD DISTRIBUTION (Kg)	
143TR-CHILLER	
R1	672
R2	648
R3	648
R4	672
R5	672
R6	648
R7	648
R8	672

LOAD DISTRIBUTION (Kg)	
155TR-CHILLER	
R1	675
R2	650
R3	650
R4	675
R5	675
R6	650
R7	650
R8	675

MOUNTING DETAILS
194TR, 206TR -CHILLER



LOAD DISTRIBUTION (Kg)	
194TR-CHILLER	
R1	767
R2	743
R3	743
R4	743
R5	767
R6	767
R7	743
R8	743
R9	743
R10	767

LOAD DISTRIBUTION (Kg)	
206TR-CHILLER	
R1	770
R2	744
R3	744
R4	744
R5	770
R6	770
R7	744
R8	744
R9	744
R10	770

NOTE: DIMENSIONS IN (mm)

05

CONDENSING UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



CONDENSING UNIT

AIR CONDITIONERS

Capacity 6-25TR

HY 30DH - 50Hz

R410A



صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

TABLE OF CONTENTS

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INTRODUCTION

Condensing Units have been developed & produced to provide not only the ultimate indoor comfort, but also to guarantee long & trouble free operations.

Here lies the reason for the choice of only the highest quality components and design strategist to meet the most important objective such as:

- EFFICIENCY
- RELIABILITY
- FLEXIBILITY
- EASY INSTALLABILITY
- SERVICEABILITY
- AFFORDABILITY

HY-3ODH



FEATURES

Standard Features

- Refrigerant : R410A.
- Power Supply: 380-415V/3PH/50Hz.
- Factory Wired with Single Point Power Input.
- Scroll Compressor.
- High Pressure & Low Pressure Safety Switches.
- Phase Loss/Reversal Protection.
- All units are provided with ON-Delay timers for Anti-short cycling.
- All Units are designed to operate with 24V Universal Thermostat.
- Condenser Fans are Propeller type Direct Driven, draw through Vertical Discharge with fan guard mounted to the Panel.
- Condenser Coils are with Copper tubes and Aluminum fins.
- Weather resistant steel cabinet, qualified for 1000 Hours of Salt Spray test.

Optional Features

- Copper Fins for Condenser coil.
- Heresite Coated Condenser Coil.
- Overload External Protection for Compressor & Condenser Fan.
- Compressor Alternating Switch.
- Hour Run Meter.
- Fan Cycling Switch.
- Low Ambient kit.
- Rotolock Compressor.
- Circuit breaker (MCB) for Compressor, Condenser Motor.
- Pump Down System.
- Hot Gas Bypass (with Solenoid).
- Pressure Gauges.
- PCB Controller.
- Advanced Microprocessor Controller.
- Adjustable Voltage Monitor.
- Adjustable Pressure Switch.
- Volt free Contacts for Compressor ON/OFF/TRIP Status.
- Fire Alarm Interlock.
- Crankcase Heater for Compressor.
- Sight Glass.

ENGINEERING SPECIFICATIONS

Outdoor

TECHNICAL SPECIFICATIONS					
MODEL / UNIT		**HY-3ODH072**	**HY-3ODH090**	**HY-3ODH120**	**HY-3ODH150**
RATED CAPACITY *	**Cooling Btu/Hr**	70,500	88,700	125,300	160,300
RATED POWER CONSUMPTION *	**Watts**	5,000	6,700	8,600	11,500
EER *		14.10	13.24	14.57	13.94
RATED CAPACITY **	**Cooling Btu/Hr**	59,500	76,200	106,200	135,800
RATED POWER CONSUMPTION **	**Watts**	6,200	8,300	10,500	15,000
EER **		9.60	9.18	10.1	9.05
REFRIGERATION SYSTEM	**Type**	R-410A			
	Circuit	Single	Single	Dual	Dual
POWER SUPPLY	**V / Ph / Hz**	380-415V / 3Ph / 50Hz			
COMPRESSOR	**Type**	Scroll	Scroll	Scroll	Scroll
	Quantity Nos.	1	1	2	2
CONDENSER FAN	**Type**	Propeller fan drive			
	Size-Dia x Width(Inch)	26"	22"	26"	26"
	Quantity Nos.	1	2	2	2
CONDENSER MOTOR	**Motor H.P**	0.75	1/3	0.75	0.75
	Quantity Nos.	1	2	2	2
	IP	IP20	IP44	IP20	IP20
CONDENSER COIL	**Type**	Corrugated Fin & Inner grooved Tube			
	Tube - Dia - Row - FPI	3/8"-3-15	3/8"-3-15	3/8"-2-14	3/8"-3-15
	No. of Coils	2	2	2	2
REFRIGERANT LINES	**Suction valve conn. (Inch)**	7/8	1 1/8	7/8	7/8
	Liquid Valve conn. (Inch)	1/2	1/2	1/2	1/2
UNIT DIMENSIONS	**W x D x H (mm)**	900 x 975 x 940	918 x 1590 x 945	1157 x 1950 x 1203	1157 x 1950 x 1203

MODEL / UNIT		**3ODH180**	**3ODH216**	**3ODH240**	**3ODH300**
RATED CAPACITY *	**Cooling Btu/Hr**	188,300	217,600	252,800	284,900
RATED POWER CONSUMPTION *	**Watts**	12,300	14,800	17,600	18,700
EER *		15.31	14.70	14.36	15.24
RATED CAPACITY **	**Cooling Btu/Hr**	163,600	183,300	212,700	246,200
RATED POWER CONSUMPTION **	**Watts**	16,700	19,100	22,800	26,200
EER **		9.80	9.60	9.33	9.40
REFRIGERATION SYSTEM	**Type**	R-410A			
	Circuit	Dual	Dual	Dual	Dual
POWER SUPPLY	**V / Ph / Hz**	380-415V / 3Ph / 50Hz			
COMPRESSOR	**Type**	Scroll	Scroll	Scroll	Scroll
	Quantity Nos.	2	2	2	2
CONDENSER FAN	**Type**	Propeller fan drive			
	Size-Dia x Width(Inch)	26"	26"	26"	26"
	Quantity Nos.	2	4	4	4
CONDENSER MOTOR	**Motor H.P**	0.75	0.50	0.50	0.50
	Quantity Nos.	2	4	4	4
	IP	IP20	IP44	IP44	IP44
CONDENSER COIL	**Type**	Corrugated Fin & Inner grooved Tube			
	Tube - Dia - Row - FPI	3/8"-4-14	3/8" -3-14	3/8" -3-14	3/8" -4-14
	No. of Coils	2	2	2	2
REFRIGERANT LINES	**Suction valve conn. (Inch)**	1 1/8	1 3/8	1 3/8	1 3/8
	Liquid Valve conn. (Inch)	5/8	7/8	7/8	7/8
UNIT DIMENSIONS	**W x D x H (mm)**	1157 x 2050 x 1240	2150 x 2000 x 1471	2150 x 2000 x 1471	2150 x 2000 x 1471

NOTES:
*Cooling Capacity & EER are rated @ 50°F SST and 95°F DBT outdoor.
** Cooling Capacity & EER are rated @ 50°F SST and 114.8°F DBT outdoor .
As a result of continous research and development, the above specifications are subject to changes without notice.

CONDENSING UNITS PERFORMANCE DATA

072K - 300K

MODEL:	HY-3ODH072GC1B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	57.8	4.4	54.2	4.8	50.5	5.4	45.5	6.0	44.1	6.3	42.6	6.5	41.3	6.7
40.00	63.2	4.4	59.4	4.9	55.3	5.5	49.8	6.1	48.3	6.3	46.7	6.6	45.3	6.8
45.00	69.0	4.5	64.8	5.0	60.5	5.5	54.6	6.2	53.0	6.4	51.2	6.7	49.7	6.9
50.00	75.0	4.6	70.5	5.0	65.9	5.6	59.5	6.2	57.8	6.5	55.9	6.7	54.2	6.9
55.00	81.3	4.6	76.6	5.1	71.6	5.7	64.7	6.3	62.9	6.5	60.9	6.8	59.2	7.0

MODEL:	HY-3ODH090GC1B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	73.3	5.6	68.7	6.3	63.7	7.1	58.5	7.9	56.6	8.2	54.4	8.6	52.6	8.9
40.00	79.9	5.7	75.0	6.4	69.7	7.2	64.1	8.0	62.1	8.3	59.8	8.7	57.7	9.0
45.00	86.9	5.8	81.7	6.5	76.0	7.3	70.0	8.1	67.8	8.4	65.4	8.8	63.3	9.1
50.00	94.2	6.0	88.7	6.7	82.5	7.4	76.2	8.3	73.9	8.6	71.3	8.9	69.1	9.2
55.00	101.9	6.1	95.9	6.8	89.4	7.6	82.6	8.4	80.1	8.7	77.3	9.1	75.0	9.4

MODEL:	HY-3ODH120GC2B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	102.1	7.7	95.7	8.6	88.4	9.5	75.8	9.5	73.1	9.8	70.2	10.0	67.7	10.2
40.00	111.6	7.5	105.2	8.6	98.5	9.8	86.3	10.1	84.0	10.5	81.7	11.0	79.8	11.4
45.00	121.7	7.5	115.1	8.6	108.7	9.9	96.6	10.5	94.6	11.0	92.8	11.6	91.3	12.1
50.00	132.2	7.5	125.3	8.6	118.8	9.9	106.2	10.5	104.5	11.0	102.8	11.6	101.5	12.2
55.00	142.9	7.6	135.3	8.6	128.3	9.7	114.8	10.1	113.0	10.6	111.1	11.1	109.9	11.5

MODEL:	HY-3ODH150GC2B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	132.0	9.5	123.4	10.7	114.5	12.1	103.5	14.2	100.1	14.8	96.6	15.5	93.6	16.1
40.00	144.1	9.8	135.0	11.0	125.4	12.4	113.6	14.5	110.0	15.1	106.2	15.8	102.9	16.3
45.00	156.9	10.0	147.3	11.2	137.0	12.6	124.4	14.7	120.5	15.3	116.5	16.0	113.0	16.6
50.00	170.6	10.3	160.3	11.5	149.3	12.9	135.8	15.0	131.8	15.6	127.4	16.3	123.7	16.9
55.00	185.0	10.6	174.0	11.8	162.4	13.2	147.9	15.3	143.6	15.9	138.9	16.6	135.0	17.1

MODEL:	HY-3ODH180GC2B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	155.4	10.4	145.9	11.5	135.5	13.0	125.7	16.0	121.4	16.7	116.7	17.5	112.5	18.3
40.00	169.7	10.6	159.3	11.8	148.1	13.2	137.7	16.2	133.1	16.9	128.1	17.7	123.6	18.4
45.00	184.6	10.8	173.4	12.0	161.4	13.4	150.3	16.4	145.5	17.1	140.1	17.9	135.5	18.6
50.00	200.4	11.1	188.3	12.3	175.4	13.7	163.6	16.7	158.5	17.4	152.7	18.2	147.8	18.8
55.00	216.7	11.4	203.8	12.6	189.9	14.0	177.4	17.0	171.9	17.7	165.8	18.4	160.6	19.1

MODEL:	HY-3ODH216GC2B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	179.2	12.6	167.9	14.2	155.5	16.1	139.5	18.5	134.7	19.3	129.6	20.2	125.2	21.0
40.00	195.5	12.8	183.6	14.4	170.5	16.2	153.3	18.7	148.2	19.5	142.8	20.4	138.1	21.2
45.00	212.7	13.0	200.2	14.6	186.3	16.4	167.9	18.8	162.6	19.6	156.6	20.5	151.8	21.3
50.00	230.8	13.3	217.6	14.8	202.9	16.6	183.3	19.1	177.5	19.8	171.3	20.7	166.0	21.5
55.00	249.8	13.6	235.8	15.1	220.3	16.9	199.3	19.3	193.3	20.1	186.7	20.9	181.1	21.7

MODEL:	HY-3ODH240GC2B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	209.6	14.8	195.9	16.7	180.9	18.9	163.0	22.0	157.2	22.9	150.8	24.0	145.4	24.9
40.00	228.6	15.1	213.9	17.0	197.9	19.2	178.8	22.2	172.6	23.2	165.8	24.3	160.1	25.2
45.00	248.6	15.4	232.9	17.2	215.8	19.4	195.3	22.5	188.8	23.5	181.7	24.5	175.5	25.5
50.00	269.7	15.7	252.8	17.6	234.6	19.7	212.7	22.8	205.7	23.8	198.1	24.8	191.6	25.8
55.00	291.8	16.1	273.7	17.9	254.1	20.1	230.8	23.1	223.4	24.1	215.3	25.2	208.4	26.1

MODEL:	HY-3ODH300GC2B													
SST (°F)	AMBIENT AIR TEMPRATURE (°F)													
	85.0		95.0		105.0		114.8		118.4		120.0		125.0	
	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
35.00	235.0	15.7	220.4	17.6	204.2	19.7	189.4	25.1	182.9	26.1	175.7	27.2	169.6	28.2
40.00	256.6	16.1	240.8	17.9	223.2	20.0	207.3	25.4	200.2	26.5	192.5	27.6	185.9	28.6
45.00	279.4	16.4	262.2	18.3	243.4	20.4	226.2	25.8	218.6	26.8	210.3	28.0	203.2	28.9
50.00	303.4	16.9	284.9	18.7	264.5	20.8	246.2	26.2	238.0	27.2	229.1	28.3	221.5	29.3
55.00	328.7	17.4	308.8	19.1	286.8	21.2	267.2	26.6	258.5	27.6	248.9	28.8	240.7	29.7

Notes: • Power consumption is the total power consumption of compressor and condenser motor.

ELECTRICAL DATA

072K - 300K

OUTDOOR UNITS												
MODEL	POWER SUPPLY			COMPRESSOR				CONDENSER MOTOR			MCA	MOCP
	V/PH/Hz	MIN VOLT	MAX VOLT	TYPE	RLA	LRA	QTY	HP	FLA	QTY	AMPS	AMPS
HY-3ODH072	380-415/3/50	342	456	SCR	9.8	101.0	1	0.75	5.7	1	18	25
HY-3ODH090	380-415/3/50	342	456	SCR	14.3	128.0	1	1/3	2	2	22	35
HY-3ODH120	380-415/3/50	342	456	SCR	9.5	67.1	2	0.75	5.7	2	33	40
HY-3ODH150	380-415/3/50	342	456	SCR	11.7	101.0	2	0.75	5.7	2	38	50
HY-3ODH180	380-415/3/50	342	456	SCR	14.3	128.0	2	0.75	5.7	2	44	60
HY-3ODH216	380-415/3/50	342	456	SCR	16.6	118.0	2	0.50	3.0	4	50	65
HY-3ODH240	380-415/3/50	342	456	SCR	18.3	118.0	2	0.50	3.0	4	54	70
HY-3ODH300	380-415/3/50	342	456	SCR	20.8	20.8	2	0.50	3.0	4	60	80

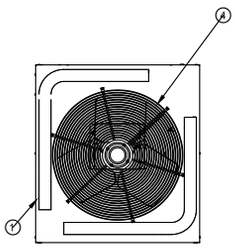
NOTE:
FLA - Full Load Amps. **LRA** - Lock Rotor Amps. **RLA** - Running Load Amps. **MCA** - Minimum Circuit Amps.
MOCP - Maximum Over Current Protection.

GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

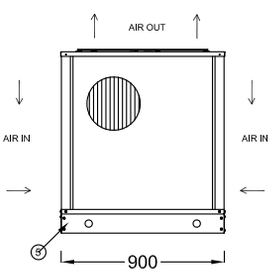
072K

LEGENDS:

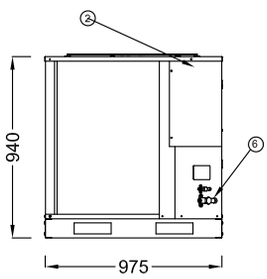
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



TOP VIEW



FRONT VIEW

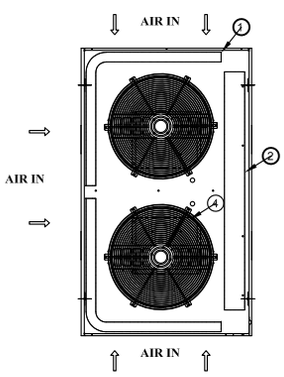


SIDE VIEW

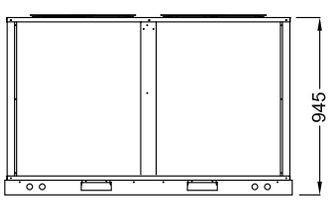
090K

LEGENDS:

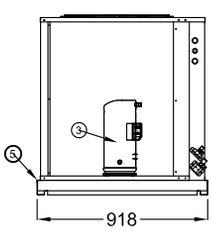
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



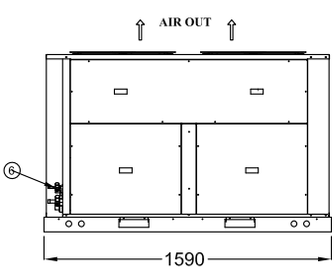
TOP VIEW



LHS VIEW



FRONT VIEW



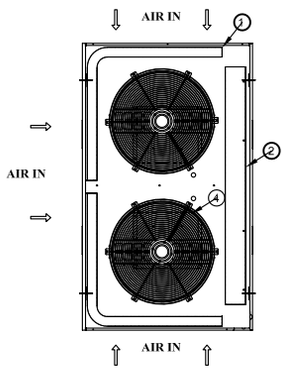
RHS VIEW

GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

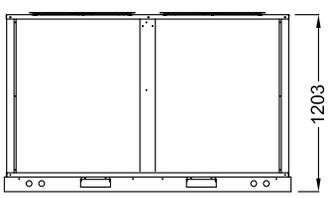
120K - 150K

LEGENDS:

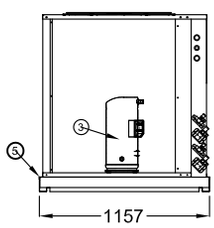
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



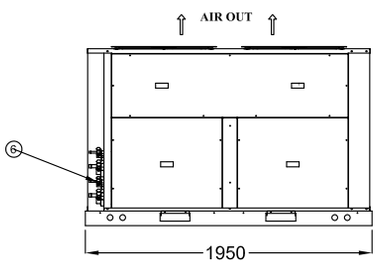
TOP VIEW



LHS VIEW



FRONT VIEW

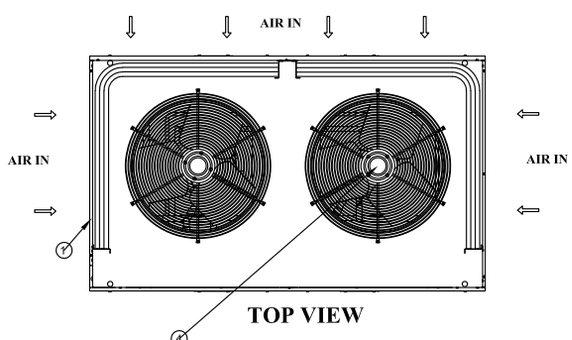


RHS VIEW

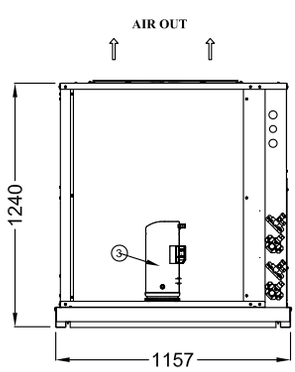
180K

LEGENDS:

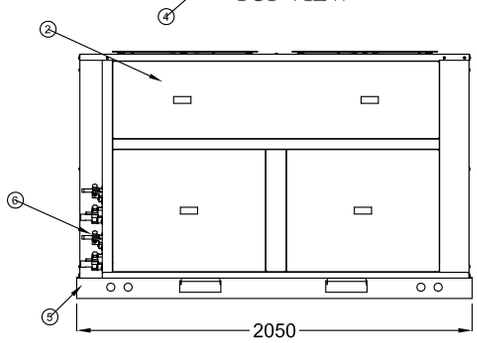
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



TOP VIEW



SIDE VIEW



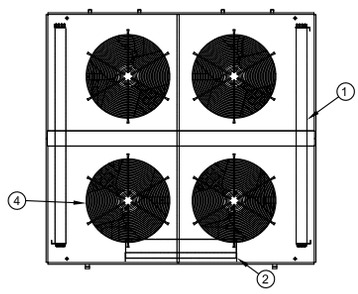
FRONT VIEW

GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

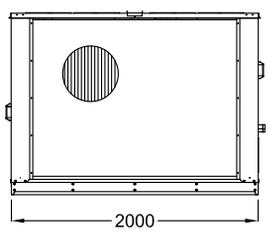
216K - 240K - 300K

LEGENDS:

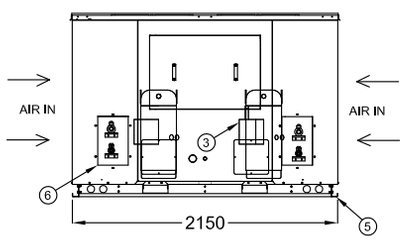
1.CONDENSER COIL
2.CONTROL PANEL
3.COMPRESSOR
4.CONDENSER FAN
5.UNIT BASE
6.SERVICE VALVE



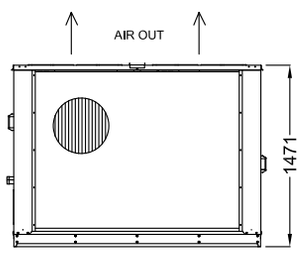
TOP VIEW



LHS VIEW



FRONT VIEW



RHS VIEW

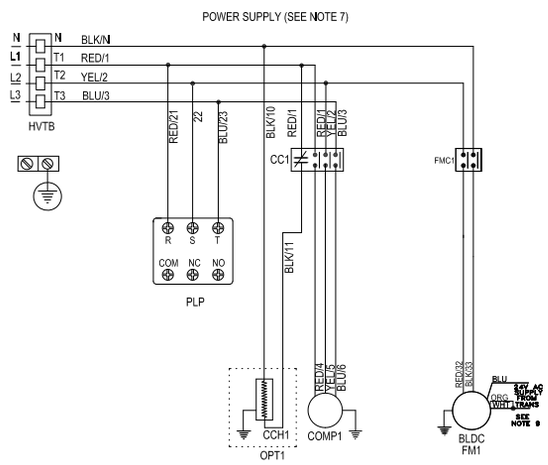
WIRING DIAGRAM - OUTDOOR

072K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

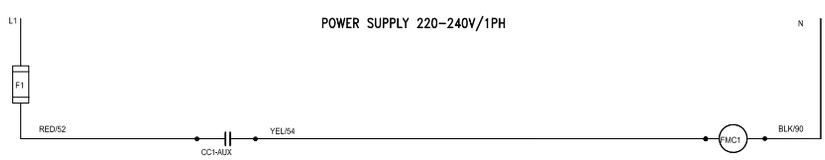
WIRING DIAGRAM FOR OUTDOOR UNITS

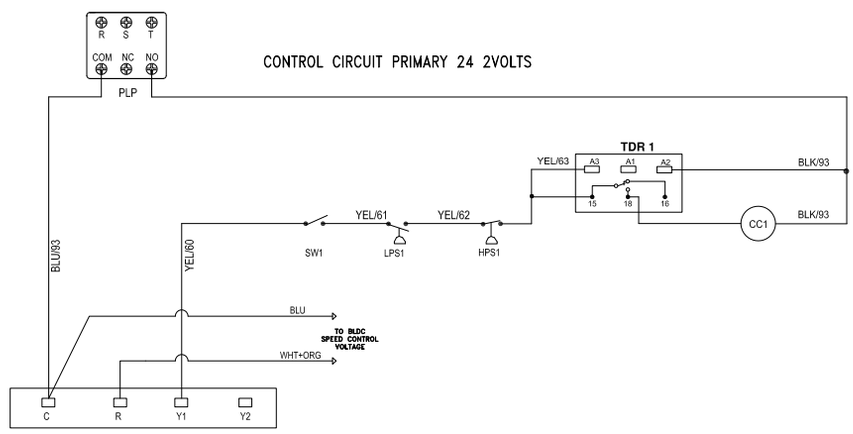
WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60° FWILL MAKE WARRANTY NULL & VOID.



LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
ORG	- ORANGE
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDS	- TIME DELAY SWITCH
T,STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
WHT	- WHITE
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - - -	- OPTIONAL MARKING
⏚	- EARTHING





FROM INDOOR UNIT 24V PRIMARY CONTROL SUPPLY

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT
   1 - 208-230V/3PH/60Hz
7) POWER CIRCUIT
   1 - 380-415V/3PH/50Hz WITH NEUTRAL
   2 - 380/400V/3PH/60Hz WITH NEUTRAL
   3 - 460V/3PH/60Hz WITH NEUTRAL
8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS
9) TAP SELECTION IS BASED ON THE REQUIRED RPM(FACTORY SET)

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR DIA ODH 1CMP 1FM 1P ECM 970RPM

C241430	1BCO11R47	00

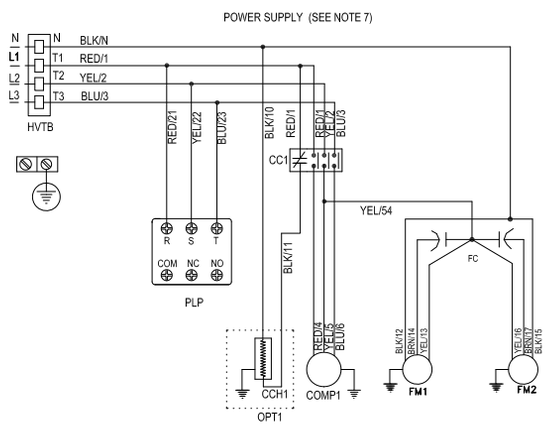
WIRING DIAGRAM - OUTDOOR

090K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

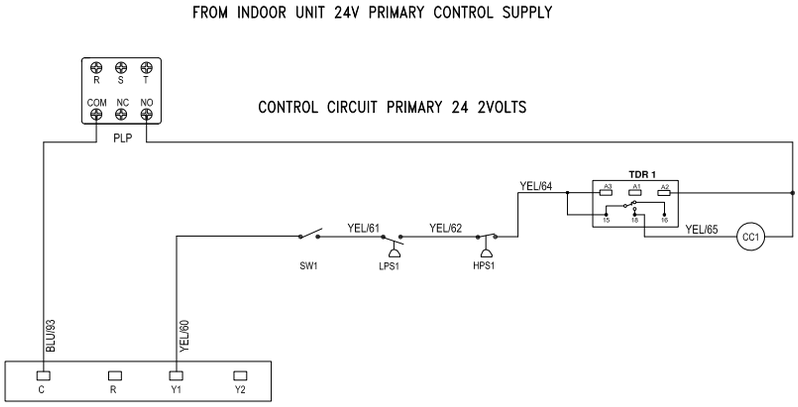
WIRING DIAGRAM FOR OUTDOOR UNITS

WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60 °F WILL MAKE WARRANTY NULL & VOID.



LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FC	- FAN MOTOR CAPACITOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDR	- TIME DELAY RELAY
T.STAT	- THERMOSTAT
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - - -	- OPTIONAL MARKING
⏚	- EARTHING



NOTES
1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.
3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.
6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz
7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL
8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR.DIA ODD 1COMP 2 FAN SPL		
C241374	1BC011Q90	00

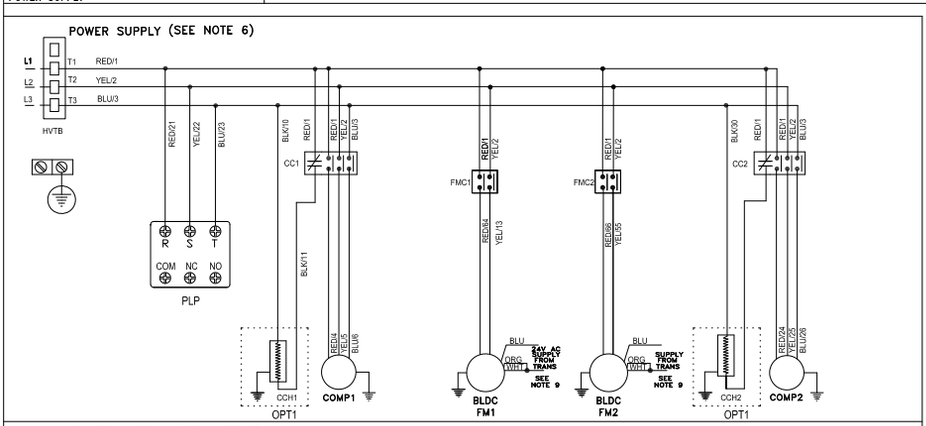
WIRING DIAGRAM - OUTDOOR

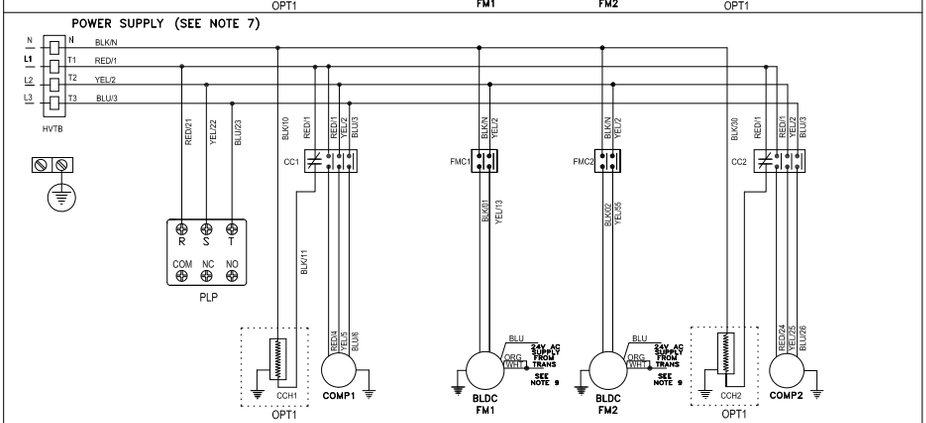
120K - 150K - 180K

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208–230 VOLTS / 3 PH / 60 HZ
380–415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR OUTDOOR UNITS

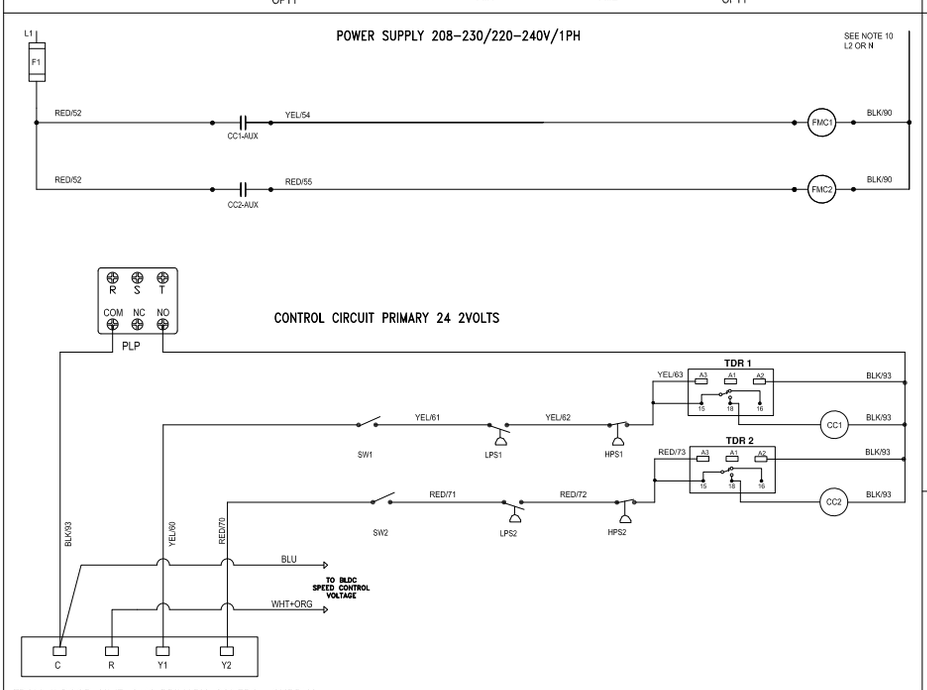
WARNING
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LEGEND

ALTR	- ALTERNATE RELAY
BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FM	- FAN MOTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
ORG	- ORANGE
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDR	- TIME DELAY RELAY
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
WHT	- WHITE
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
- - - - - -	- OPTIONAL MARKING
⏚	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS

9) TAP SELECTION IS BASED ON THE REQUIRED RPM FACTORY SET

10) IF POWER SUPPLY IS 230V CONNECT TO L2 . IF POWER SUPPLY IS 380V CONNECT TO N .

OPTIONS
OPT. 1 - CRANK CASE HEATER

WIR DIA ODH 2CMP 2FM 1P ECM 970RPM		
C241386	1BC011R03	00

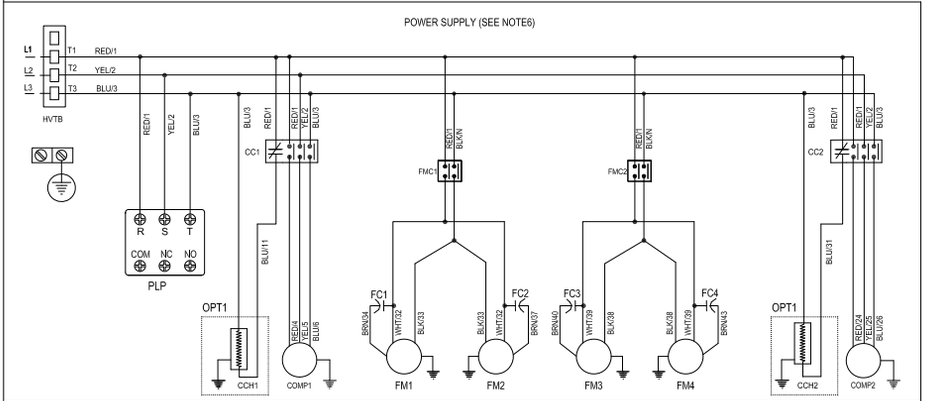
WIRING DIAGRAM - OUTDOOR

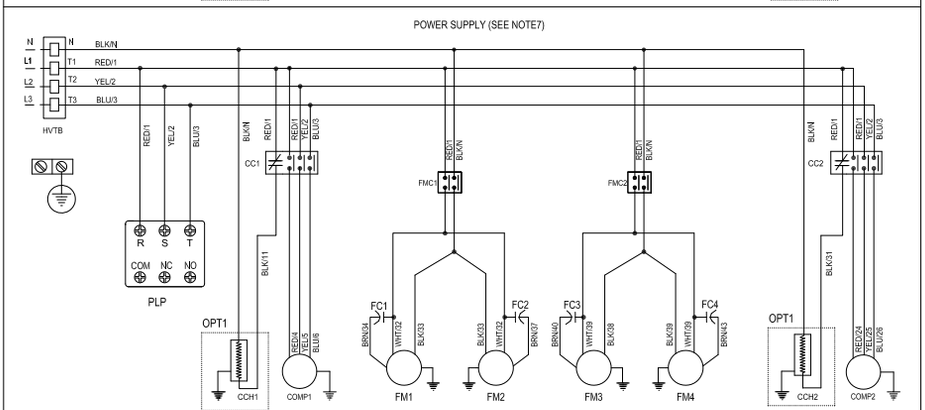
216K - 240K - 300K

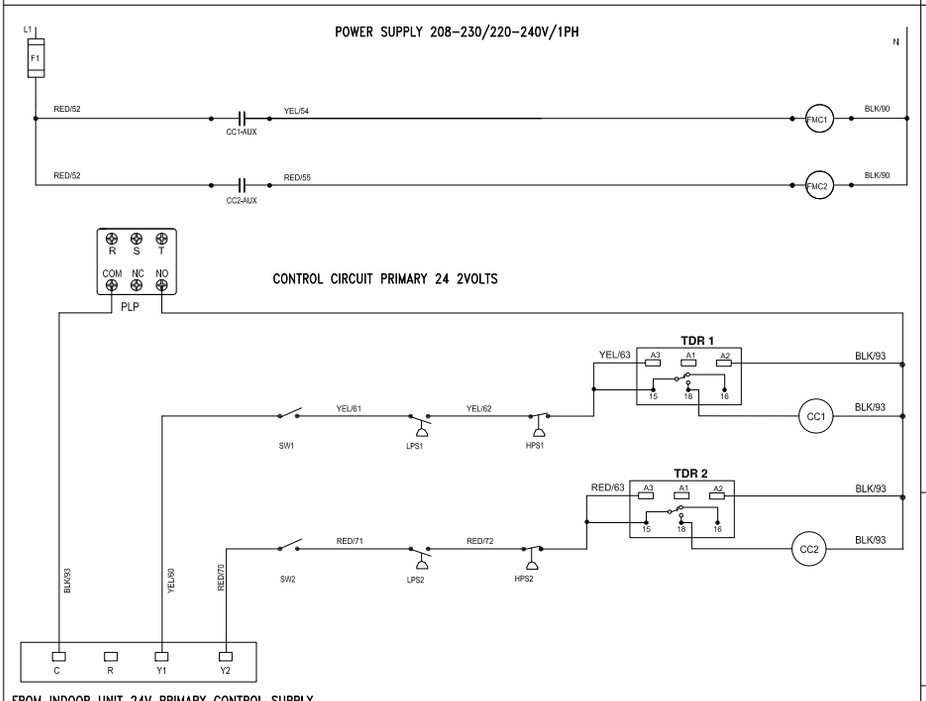
POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208-230 VOLTS / 3 PH / 60 HZ
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380/400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY

WIRING DIAGRAM FOR OUTDOOR UNITS

WARNING
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LEGEND

BLK	- BLACK
BLU	- BLUE
BRN	- BROWN
CCH	- CRANK CASE HEATER
COM	- COMMON
COMP	- COMPRESSOR
CC	- COMP CONTACTOR
FC	- FAN MOTOR CAPACITOR
FM	- FAN MOTOR
FMC	- FAN MOTOR CONTACTOR
HPS	- HIGH PRESSURE SWITCH
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
L	- LINE
LPS	- LOW PRESSURE SWITCH
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OPT	- OPTIONAL
PLP	- PHASE LOSS PROTECTION
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
SW	- SWITCH ON/OFF
TDS	- TIME DELAY SWITCH
T.STAT	- THERMOSTAT
UVM	- UNDER VOLTAGE MONITOR
YEL	- YELLOW
WHT	- WHITE
— ---	- FIELD WIRING
•	- TERMINAL / SPLICE
.....	- OPTIONAL MARKING
⏚	- EARTHING

NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.

2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR.

3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.

4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.

5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION.

6) POWER CIRCUIT
1 - 208-230V/3PH/60Hz

7) POWER CIRCUIT
1 - 380-415V/3PH/50Hz WITH NEUTRAL
2 - 380/400V/3PH/60Hz WITH NEUTRAL
3 - 460V/3PH/60Hz WITH NEUTRAL

8) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS

9) IF THE POWER SUPPLY IS 230V, CONNECT TO L3
IF THE POWER SUPPLY IS 380V, CONNECT TO N

OPTIONS
OPT. 1 - CRANK CASE HEATER

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06

AIR HANDLING UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



AIR HANDLING UNIT

AIR CONDITIONERS

Capacity 800-35,000 CFM

8A/4A Series

R407C/R410A

CHILLED WATER



صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

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Types of Air Handling Units

1. Compact Air Handling Unit Airflow

1,600 cfm to 10,400 cfm.

a) DX system, 6TR to 25TR unit capacities

b) CHW system, 6TR to 25TR unit capacities



Construction

• These low airflow series double skin Air Handling units are developed taking into consideration of compact design and can either be ceiling suspended (frames to be provided at the site for ceiling suspension) or floor mounted as per the site requirements.

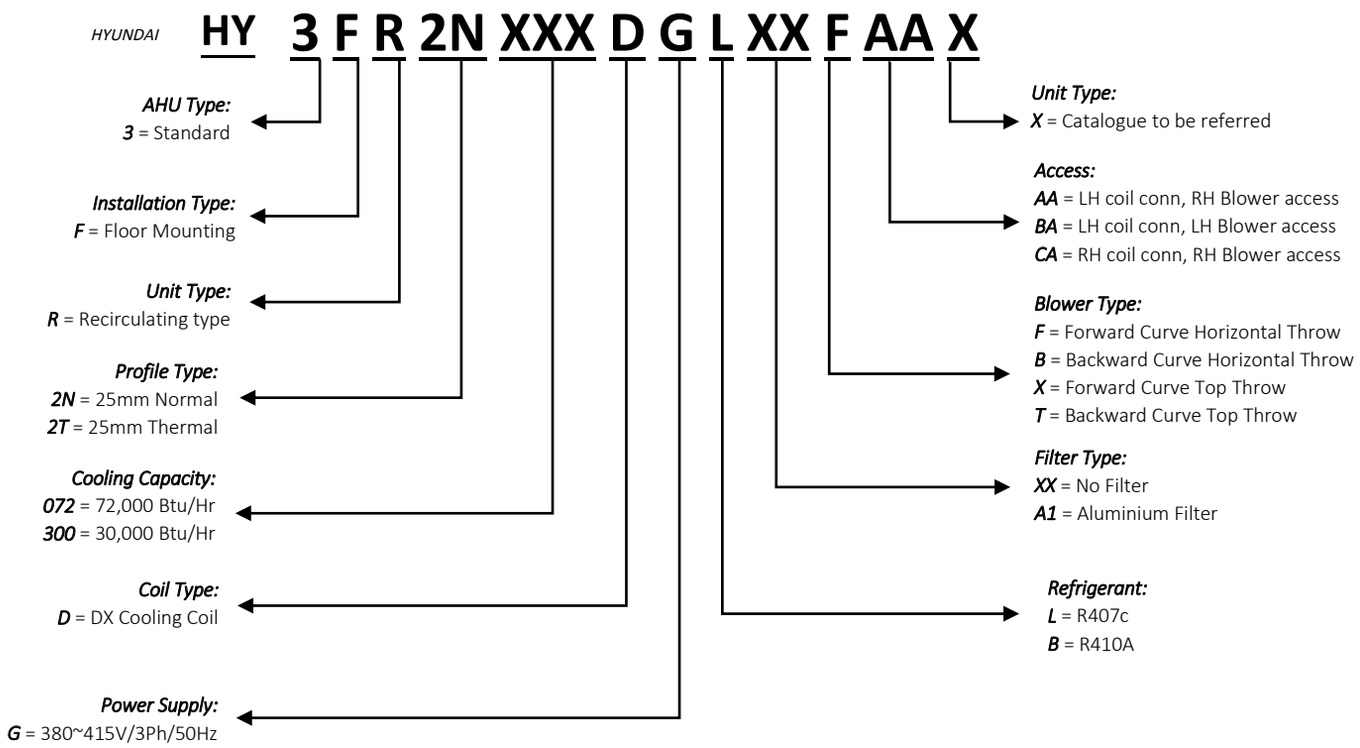
• The units are with double skin construction and with profile construction. The double skin panels are fabricated from heavy gauge galvanized steel sheet duly finished with powder coat.

• The units are manufactured at an ISO 9001 certified facility center ensuring quality standards for the components used in the construction of the units. The units are tested in accordance with AHRI standards. All the units are factory assembled, piped, internally wired.

• The Cooling coils are AHRI certified and blowers are AMCA rated.

Model Decoding (Ducted Split)

DX System (R410A and R407C refrigerant)



Features (Ducted Split)

HY-DX System (R410A and R407C refrigerant)

Standard Features

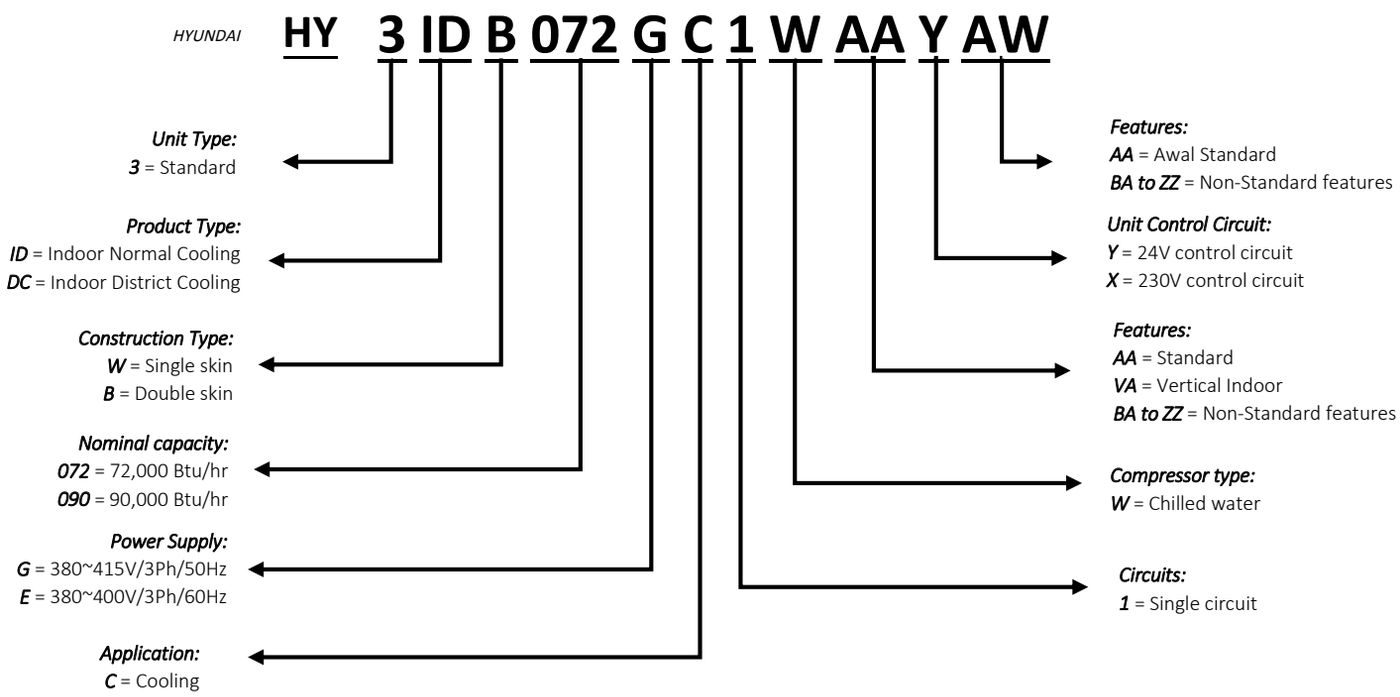
- Factory wired with Single Point Power Input.
- Scroll compressors
- High Pressure & Low Pressure Safety Switches.
- Power Controller, High/Low Voltage Phase Loss/Reversal Protection.
- All units are provided with ON-Delay timers for Anti-short cycling.
- Internal Motor Protection for 3Φ Indoor & Outdoor Motors.
- All units are designed to operate with 24V Universal thermostat.
- Belt Drive Blower Motor assembly.
- Thermostatic Expansion Valve.
- Condenser fans are Propeller type Direct Driven, draw through Vertical Discharge with fan guard mounted to the panel.
- Condenser & Evaporator coils are with Copper tubes & Aluminium fins.
- Weather resistant steel cabonet, qualified for 1,000 hours of Salt Spray test.
- 1" aluminium filter for Indoor units up-to 10TR.
- 2" aluminium filter for 12.5TR Indoor units and above.

Optional Features

- Thermal profile
- Crancase heater
- Electric heater
- Anti-ice thermostat
- Synthetic filter
- Hydrophillic fins for evaporator coil.
- Copper fins for condenser soils.
- Heresite coating on the condenser coils.
- Stainless steel drain pan.
- Filter differential pressure switch
- Overload external protection for the condenser fan.
- Compressor alternating switch for 10tr and above.
- Hour run meter (above 10TR).
- Fan cycling switch
- Rotolock compressor
- MCB for Compressor & Condenser fans.
- Pump down solenoid
- Dual adjustable switch
- Hot gas-bypass
- Pressure guages
- PCB controller.
- Fire alarm interlock
- Volt free contacts for compressor ON/OFF/Trip status
- Heat pump application.
- These units can also be ceiling suspended (frames to be provided at the site for ceiling suspension).
- VFD (can be provided but to be installed at site

* For more details on this product, the detailed catalogue for this product can be referred.

Model Decoding (Chilled Water Application)



Features (Chilled Water)

Standard Features

- Factory wired with Single Point Power Input.
- Internal Motor Protection for 3Φ Indoor.
- Belt Drive Blower Motor assembly.
- Flanges.
- Evaporator coils are with Copper tubes & Aluminium fins.
- Weather resistant steel cabonet, qualified for 1,000 hours of Salt Spray test.
- 1″ aluminium filter for Indoor units up-to 10TR.
- 2″ aluminium filter for 12.5TR Indoor units and above.

Optional Features

- Thermal profile
- Electric heater
- Synthetic filter
- G4 aluminium filter
- Hydrophillic fins for evaporator coil.
- Stainless steel drain pan.
- Fire alarm interlock
- These units can also be ceiling suspended (frames to be provided at the site for ceiling suspension).
- VFD (can be provided but to be installed at site

* For more details on this product, the detailed catalogue for this product can be referred.

2. Modular Air Handling Unit

Airflow 800 cfm to 35,000 cfm



Quality

Units are manufactured at an ISO 9001 certified facility center ensuring quality standards for the components used in construction of the units.

Each unit has been carefully designed by taking into consideration the highest quality components and design strategies to meet the most important objectives such as:

- Efficiency
- Reliability
- Flexibility
- Easy installability
- Serviceability
- Affordability

Certification

- ISO 9001 certified company
- Cooling coil AHRI 410 certified
- Blowers (size 8 and above) AMCA certified for Sound and Air Performance
- Outer panels are powder-caoted having Salt spray test equivalent to 1,000 hours, in accordance with ASTM B117 standards.

Cooling coils are sized and designed by the computerized software selection program and manufactured in our state-of-the-art technology plant, tested and certified as per the test conditions specified by AHRI 410 standards.

Corrugated plate type fin is die-formed. Fin collars are full drawn to provide accurate control fin spacing and maximum contact with tubes. All coils are leak tested and pressure tested at 450 psi.

Features

100% Fresh Air Units

Standard Features

- 45mm thermal profile.
- Sand trap louver.
- Pre + bag filters with RHS access doors, pre filter (panel filter) with G3 efficiency class and bag filter with F6 class.
- DX cooling coil with R22, R407C, R410A refrigerant. Chilled water cooling coil with standard application and district cooling application.
- Backward curve/Forward curve blower with double inlet double width type.
- IE2/IE3 efficiency, IP55 blower motor, VFD compatible.

Factory Installed Optional Features

- Roof canopy
- Motorized dampers
- Controller
- Inspection window. of Dia 109mm and of Poly carbonate material (for combined filter section and blower section).
- Manometer – manual (for combined filter section and blower section).
- Differential pressure switches (for combined filter section and blower section).
- UV light.
- Bulkhead light of 60DB maximum wattage and with outdoor switch with IP55 construction. The bulb is having a luminosity of 1055LM or equivalent.
- Differential pressure gauge (for combined filter section and blower section).
- Corro-Zinc Coating/primer for the panels having SST of 2,000 hours.
- Hepa filters.
- Carbon filters.
- VFD

Recirculating Type Unit

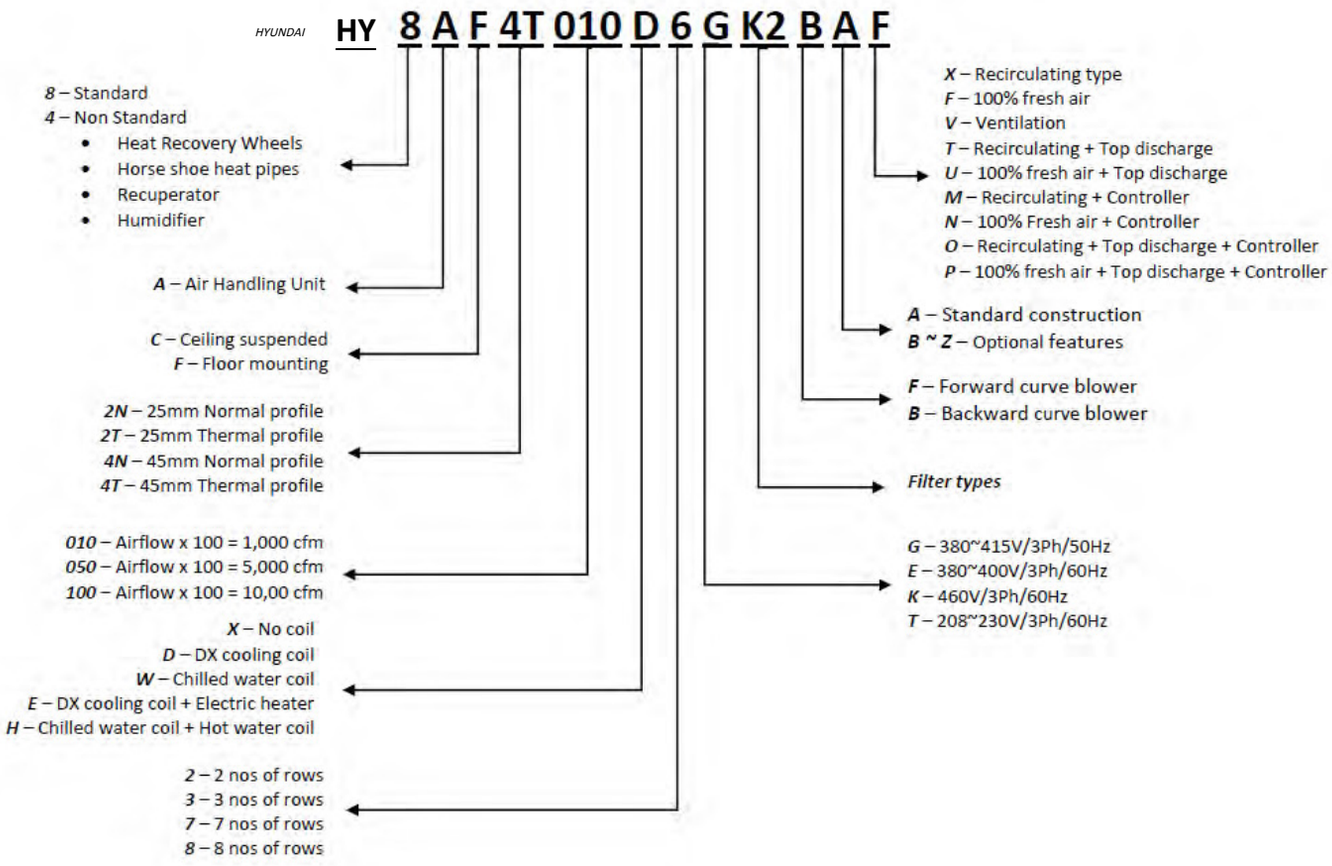
Standard Features

- 45mm normal profile.
- Panel filter with G3 efficiency class.
- DX cooling coil with R22, R407C, R410A refrigerant.
- Chilled water cooling coil with standard application and district cooling application.
- Backward curve/Forward curve blower with double inlet double width type.
- IE2/IE3 efficiency, IP55 blower motor, VFD compatible.

Factory Installed Optional Features

- 45mm thermal profile
- Roof canopy
- Mixing box with Motorized dampers Controller
- Inspection window. of Dia 109mm and of Poly carbonate material (for combined filter section and blower section).
- Manometer – manual (for combined filter section and blower section).
- Differential pressure switches (for combined filter section and blower section).
- UV light.
- Bulkhead light of 60DB maximum wattage and with outdoor switch with IP55 construction. The bulb is having a luminosity of 1055LM or equivalent.
- Differential pressure gauge (for combined filter section and blower section).
- Corro-Zinc Coating/primer for the panels having SST of 2,000 hours.
- Hepa filters.
- Carbon filters.
- VFD

Model Decoding



Quick Selection Table

General

Sr. No	Model	CFM (Max)	m^3/Sec (Max)	Face Velocity (m/Sec) (Max)	Height with 100mm Base	Width
1	HY AHU1-1	1,960	0.925	2.50	1,034	934
2	HY AHU1-2	2,660	1.255	2.50	1,034	1,138
3	HY AHU1-3	3,380	1.595	2.50	1,034	1,340
4	HY AHU1-4	4,800	2.265	2.50	1,034	1,746
5	HY AHU2-1	5,450	2.572	2.50	1,440	1,340
6	HY AHU2-2	7,750	3.658	2.50	1,440	1,746
7	HY AHU2-3	8,650	4.082	2.50	1,440	1,902
8	HY AHU2-4	10,000	4.719	2.50	1,440	2,154
9	HY AHU3-1	13,000	6.135	2.50	1,846	2,074
10	HY AHU3-2	19,400	9.156	2.50	1,846	2,886
11	HY AHU4-1	16,500	7.787	2.50	2,254	2,074
12	HY AHU4-2	24,500	11.563	2.50	2,254	2,886
13	HY AHU5-1	25,500	12.035	2.50	2,508	2,682
14	HY AHU6-1	28,500	13.450	2.50	2,762	2,682
15	HY AHU6-2	36,000	16.990	2.50	2,762	3,292

Quick Selection Table

100% Fresh Air Application

Application	100% Fresh Air
ON Coil temperatures	46/30°C
ESP	500 Pa
Power supply	415/380V-3P-50Hz
Refrigerant	R410A

Sr. No	Model	Speed	Airflow	m³/Sec	Face Velocity	Rows	Cooling Capacity		OFF coil temp	Fan Outlet Velocity	Motor	AHU item code	Condensing unit @46°C	Condensing unit nominal capacity TR @35°C
			CFM	(Max)	m/s	nos	kW	TR	°C	m/s	kW			
1	HY AHU1-1	Low	1,000	0.472	1.27	8	34.8	9.9	14.5	11.34	2.2	8AF4T010D8GK	3ODH150GC2B	12.3
	HY AHU1-1		1,000	0.472	1.27	6	31.8	9.0	17.0	11.34	2.2	8AF4T010D6GK	3ODH150GC2B	12.3
	HY AHU1-1	Med	1,500	0.708	1.91	8	52.1	14.8	14.5	10.8	2.2	8AF4T015D8GK	3ODH216GC2B	16.7
	HY AHU1-1		1,500	0.708	1.91	6	46.6	13.3	17.0	10.8	2.2	8AF4T015D6GK	3ODH180GC2B	14.5
	HY AHU1-1	High	2,000	0.944	2.54	8	69.6	19.8	14.5	9.10	3.0	8AF4T019D8GK	3ODH300GC2B	21.9
	HY AHU1-1		2,000	0.944	2.54	6	62.5	17.8	17.0	9.10	3.0	8AF4T019D6GK	3ODH240GC2B	19.4
2	HY AHU1-2	Low	2,300	1.085	2.23	8	80.5	22.9	14.5	8.33	4.0	8AF4T023D8GK	3ODH360GC2B	29.8
	HY AHU1-2		2,300	1.085	2.23	6	71.7	20.4	17.0	8.33	4.0	8AF4T023D6GK	3ODH300GC2B	21.9
	HY AHU1-2	High	2,600	1.227	2.52	8	91.0	25.8	14.5	9.63	4.0	8AF4T026D8GK	3ODH360GC2B	29.8
	HY AHU1-2		2,600	1.227	2.52	6	81.5	23.2	17.0	9.63	4.0	8AF4T026D6GK	3ODH360GC2B	29.8
3	HY AHU1-3	Low	3,000	1.416	2.30	8	104.5	29.7	14.5	8.67	4.0	8AF4T030D8GK	3ODH420GC2B	35.0
	HY AHU1-3		3,000	1.416	2.30	6	94.0	26.7	17.0	8.67	4.0	8AF4T030D6GK	3ODH360GC2B	29.8
	HY AHU1-3	High	3,400	1.605	2.60	8	119.1	33.8	14.5	9.83	5.5	8AF4T033D8GK	3ODH480GC2B	38.3
	HY AHU1-3		3,400	1.605	2.60	6	105.6	30.0	17.0	9.83	5.5	8AF4T033D6GK	3ODH420GC2B	35.0
4	HY AHU1-4	Low	4,200	1.982	2.27	8	147.1	41.8	14.5	9.66	5.5	8AF4T042D8GK	3ODH600GC2B	49.1
	HY AHU1-4		4,200	1.982	2.27	6	131.4	37.3	17.0	9.66	5.5	8AF4T042D6GK	3ODH540GC2B	43.9
	HY AHU1-4	High	5,000	2.360	2.60	8	175.0	49.7	14.5	11.50	7.5	8AF4T050D8GK	3ODH720GC3B	59.2
	HY AHU1-4		4,800	2.265	2.60	8	167.4	47.6	15.5	11.50	7.5	8AF4T050D8GK	3ODH660GC3B	54.6
	HY AHU1-4		4,800	2.265	2.60	6	150.0	42.6	17.0	11.50	7.5	8AF4T050D6GK	3ODH600GC2B	49.1
5	HY AHU2-1	Med	5,300	2.501	2.47	8	185.2	52.6	14.5	9.73	7.5	8AF4T053D8GK	3ODH720GC3B	59.2
	HY AHU2-1		5,300	2.501	2.47	6	165.8	47.1	17.0	9.73	7.5	8AF4T053D6GK	3ODH660GCEB	54.6
	HY AHU2-1	High	5,600	2.643	2.60	8	195.6	55.6	14.5	10.47	7.5	8AF4T057D8GK	3ODH780GC3B	64.5
	HY AHU2-1		5,600	2.643	2.60	6	175.2	49.8	17.0	10.47	7.5	8AF4T057D6GK	3ODH720GC3B	59.2
6	HY AHU2-2	Low	6,000	2.832	1.97	8	209.0	59.4	14.5	8.75	7.5	8AF4T060D8GK	3ODH840GC3B	69.2
	HY AHU2-2		6,000	2.832	1.97	6	187.2	53.2	17.0	8.75	7.5	8AF4T060D6GK	3ODH720GC3B	59.2
	HY AHU2-2	Med	7,000	3.304	2.29	8	243.8	69.3	14.5	10.20	11.0	8AF4T070D8GK	3ODH960GC4B	76.6
	HY AHU2-2		7,000	3.304	2.29	6	218.4	62.0	17.0	10.20	11.0	8AF4T070D6GK	3ODH900GC4B	74.2
	HY AHU2-2	High	7,800	3.681	2.56	8	271.6	77.2	14.7	11.66	11.0	8AF4T080D8GK	3ODH1080GC4B	89.1
	HY AHU2-2		7,800	3.681	2.56	6	243.3	69.1	17.0	11.66	11.0	8AF4T080D6GK	3ODH960GC4B	76.6

Air Handling Unit

Standard Features - 100% Fresh Air Application

- Unit is 45mm profile construction
- Panels are 45mm thick, ~40kg/m3 density and injected with HCFC 141b foam insulation
- 0.8mm thick, powder coated galvanized steel having SST in accordance with ASTM B117 on exterior and mist-coated galvanized steel on inner wall.
- 2" washable synthetic type pre filters (G3, EU3, En779).
- High efficiency bag type filter (F7, ASHRAE 52.2).
- HY DX refrigerant AHRI certified cooling coil constructed of copper tubes and aluminum fins.
- Anti ice thermostat for regulating the evaporating temperature and providing additional protection to the system.
- Galvanized steel drain pan having mastic coating on inside, drain pan is located inside the unit.
- Forward curve AMCA certified centrifugal DIDW fans, bearing service life (L10) 100,000 hours.
- Motor shall be horizontal foot mounting induction motor, TEFC, IE2/IE3 efficiency, IP55 construction with class F insulation and suitable for 415/380V-3Ph-50Hz power supply.
- Blower & motor mounted on common base frame supported with rubber mounts, and with variable drive set.
- Base frame of hot dipped galvanized steel and of 100mm height.
- Service doors with gaskets, handles with latches provided for filter section and blower section.

Condensing Unit

Standard Features

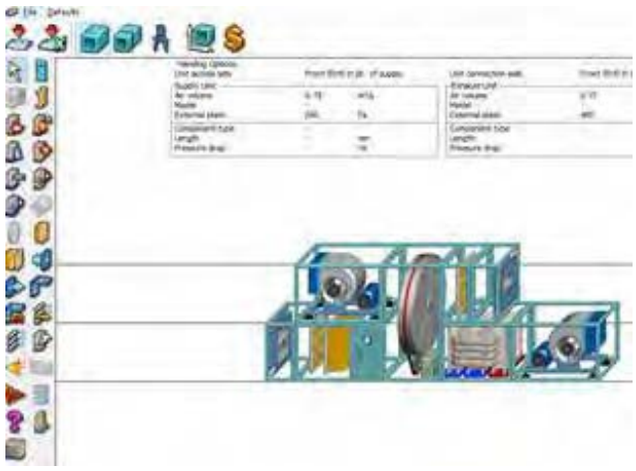
- Fully hermetic scroll compressors, R410A refrigerant.
- High and low pressure safety switches to protect the system against operations outside recommended pressure limits.
- Phase loss/ reversal protection.
- Compressor protection against high discharge temperature.
- High efficiency condenser coils constructed of copper tubes and aluminum fins, pressure tested at 450 psi.
- Weather resistant unit cabinet made of galvanized steel, powder-coated having SST in accordance with ASTM B117.
- Heavy gauge welded steel base with mounting base.
- Brazed type filter drier as loose item

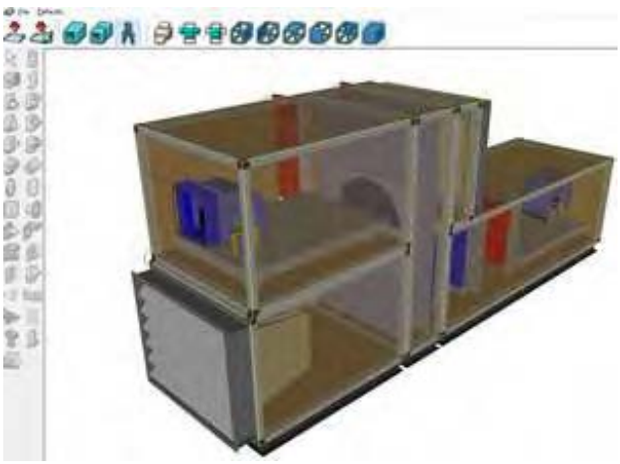
Note: These same units can also be provided for Chilled Water Application.

Selection Software

From customer specifications to submittals to manufacturing to delivery of an AHU, all these steps are a part of a rather complex, tedious and time consuming journey; however, AGMCO has made this process easier by developing a state of art AHU selection software.

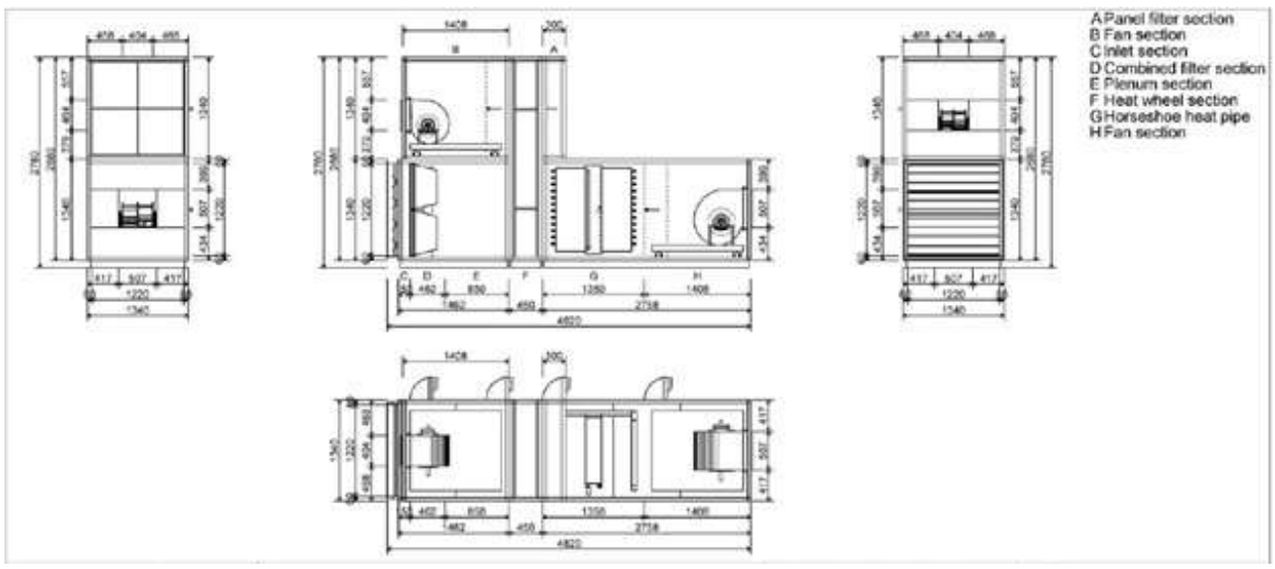
This software works on the basic principles and rules allowing customized Air Handling Units to be designed by inputting basic unit parameters and the system automatically displays information allowing the programmer to make optimum selection based on the customer's requirements.





The component selections are calculated from their fundamentals and psychrometric validation charts and predictions are also included for further product precision. Equipment vendor's own selection methods are also utilized to ensure complete technical and financial compatibility, having the system calculate the performance, dimensions, pressure drops, etc. Once designed, the technical submittals and GA drawings can be generated quickly and the unit can also be sectioned for transportation.

GA Drawing from Software



Submittals from the Software

CUSTOMER DETAILS

Customer Name	Customer Number
Address	
Town	
Postcode	
Country	

GENERAL DATA

Product		Air handling unit			Customer reference			TFAHU-TB-01	
Number off		1			AHU configuration			Double deck (opposite)	
Location		Outdoor							
SFPe	kW/m³/s	3.51			SFPv		kW/m³/s	3.24	
Outdoor design temperature	°C	35.0							
Frequency		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)
Radiated casework SWL, dB		73	78	92	87	86	82	74	93

PANEL DATA

Panel internal finish	Standard	Panel external finish		Standard

CASING DATA

Base frame material	GI sheet	Base frame height	mm	100

EXHAUST DATA

Type		AHU2-1			Air volume		m³/s	1.84	
External static	Pa	400							
Frame type		45 mm thermal profile							
Internal skin material		Mist coated			External skin material			Powder coated	
SFPe	kW/m³/s	1.4			SFPv		kW/m³/s	1.3	
Operating sound power level									
Frequency		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)
Inlet dB		84	78	90	81	81	77	69	89
Outlet dB		84	78	90	81	81	77	69	89

SUPPLY DATA

Type		AHU2-1			Air volume		m³/s	2.34	
External static	Pa	400							
Frame type		45 mm thermal profile							
Internal skin material		Mist coated			External skin material			Powder coated	
SFPe	kW/m³/s	2.4			SFPv		kW/m³/s	2.2	
Operating sound power level									
Frequency		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)
Inlet dB		88	86	95	86	84	80	75	93
Outlet dB		88	86	95	86	84	80	75	93

UNIT EXTRAS

1 x Packing	1 x Canopy

Fan Curves from the Software

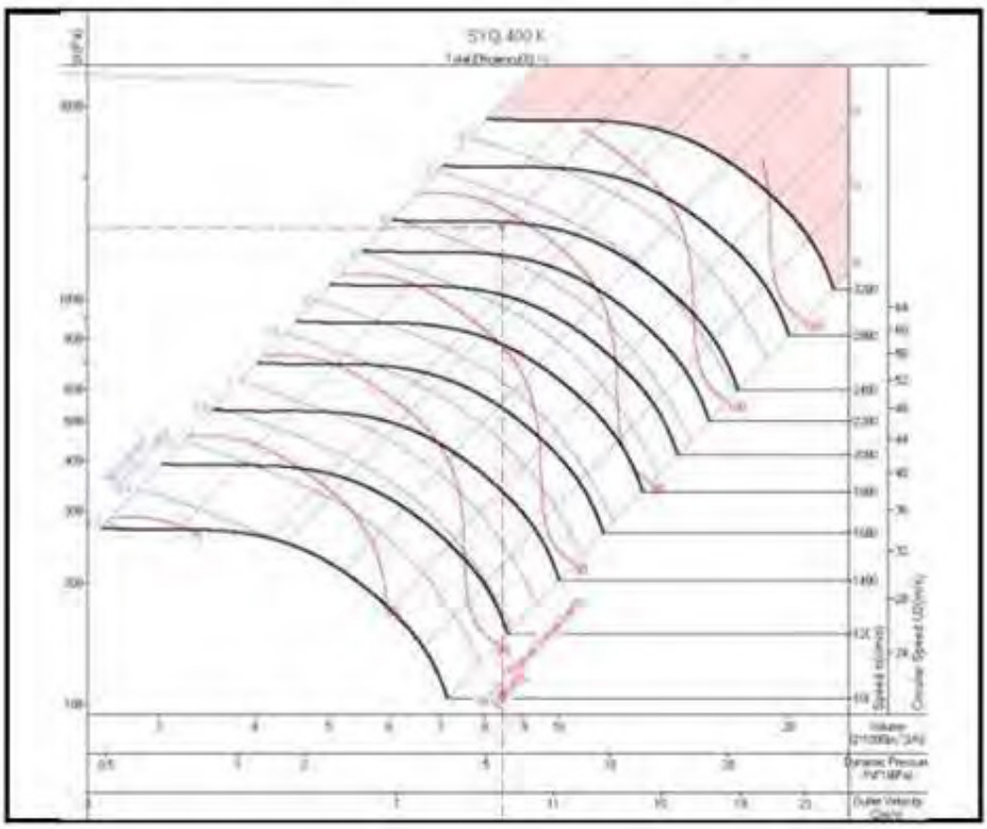
Supply fan

	PERFORMANCE	Qty	Model	Class	Air volume (m^3/s)	Total static (Pa)	Tip speed (m/s)	Outlet velocity (m/s)	Required fan speed (RPM)	Max speed (RPM)
Fan Power (kW)	Efficiency %	1	SYQ 400 K	1	2.34	1497	49.77	9.10	2364	3200
4.79	73									

SOUND

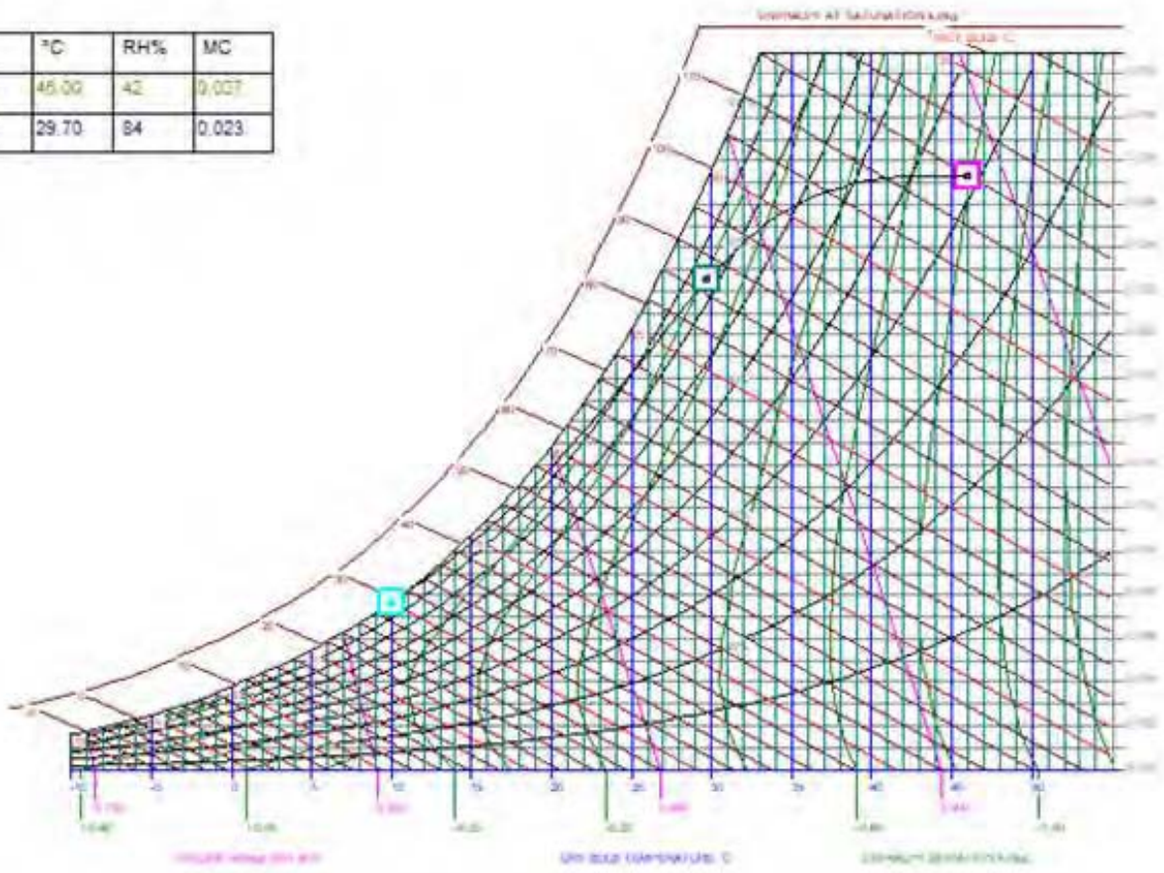
	Sound Power by Octave Band									
	63	125	250	500	1k	2k	4k	8k		
Inlet	91	88	86	95	86	84	80	75		
Outlet	91	88	86	95	86	84	80	75		

LwA - A weighted sound power level, based on ANSI S1.4. dBA - A weighted sound pressure level, based on 11.5dB attenuation per octave band at 5.0ft.



Psychrometric Chart from the Software

	°C	RH%	MC
ON	46.00	42	0.027
OFF	29.70	84	0.023

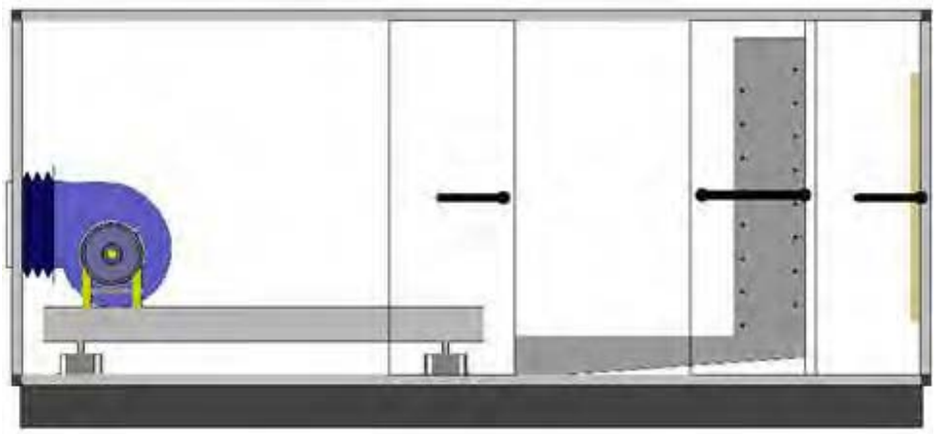




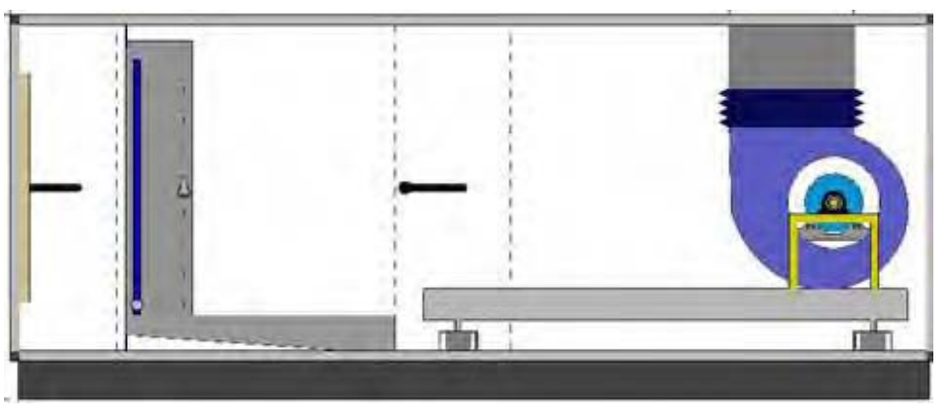
** %RH Calculations when a heater is used after the cooling coil*

Types of Basic Unit

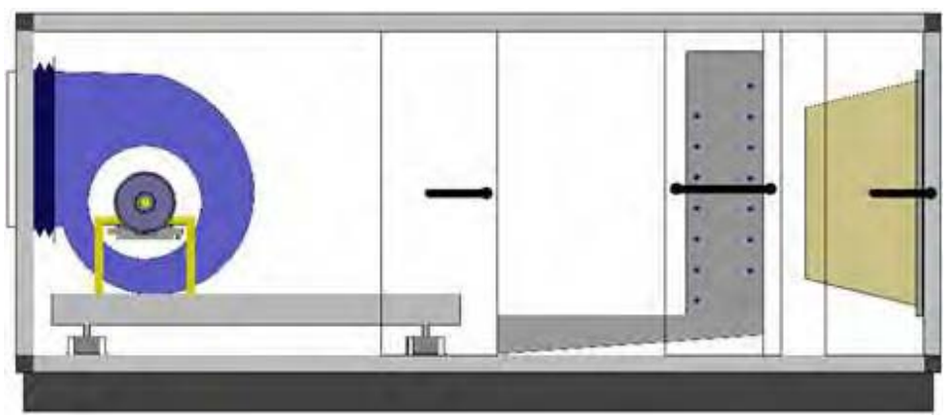
Basic Unit with Cooling coil and panel filter and horizontal discharge



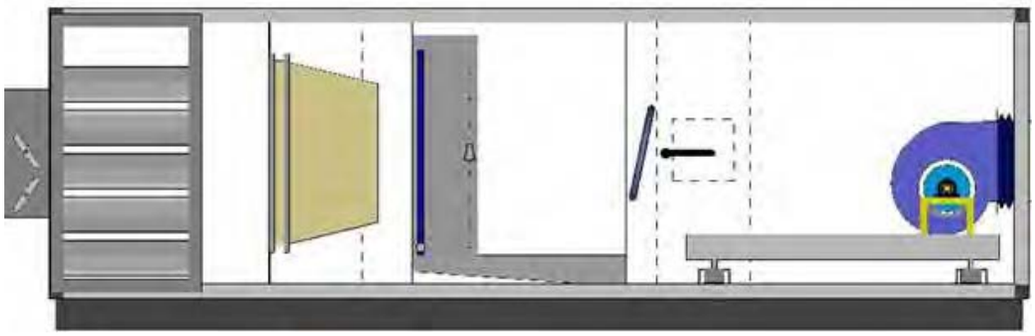
Basic unit with Cooling coil and panel filter and Vertical up discharge blower



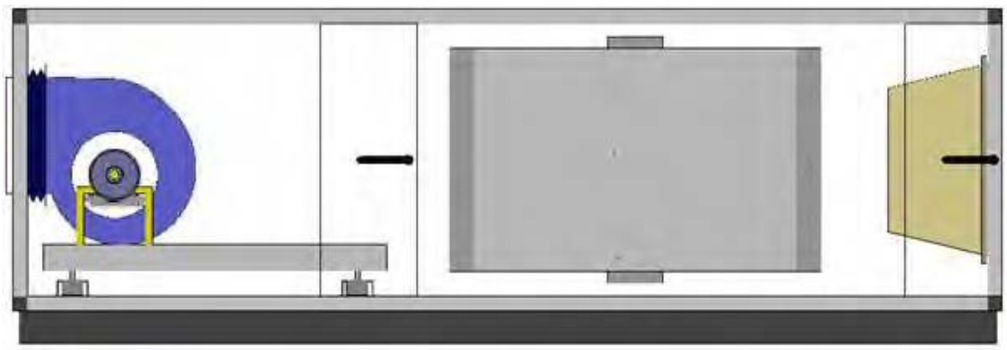
Unit with Cooling coil and with Panel + bag filter



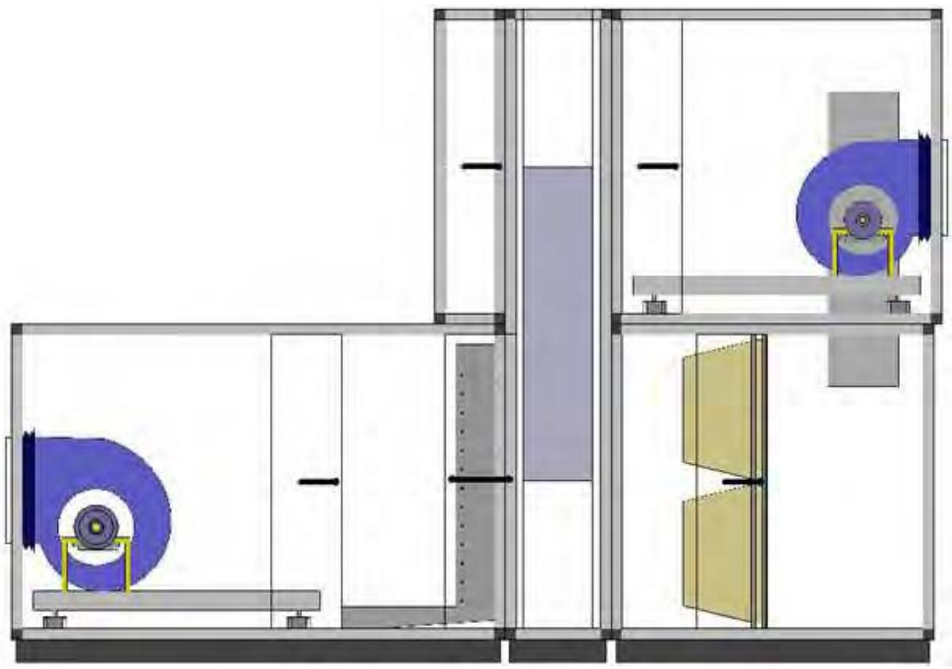
Unit with Mixing box, Cooling coil & Electric heater



Unit with Cooling coil & Horse Shoe Heat Pipe



Unit with Cooling coil and with Heat recovery Wheel



Construction

Frames & Profile



The Aluminium profiles are with low conductivity material with natural finish (Oxidised T6 treatment).
The Thermal Profiles used are with below classification of the casing (EN 1886)

- Thermal transmittance – T2
- Thermal bridging – TB2
- Mechanical strength of casing – D1 (M)
- Casing air leakage – L1 (M)

The Normal Profiles used are with below classification of the casing (EN 1886)

- Casing air leakage – L2 (M)

The structures are assembled by connecting the profiles to nylon corners. The units are either with single base construction or in modular type construction.

Standard Accessories



Unit Connectors

All the sections are connected with each other with unit connectors for proper fexibility to join the sections at site in case the unit is shipped in separate modules.



Doors & Handles

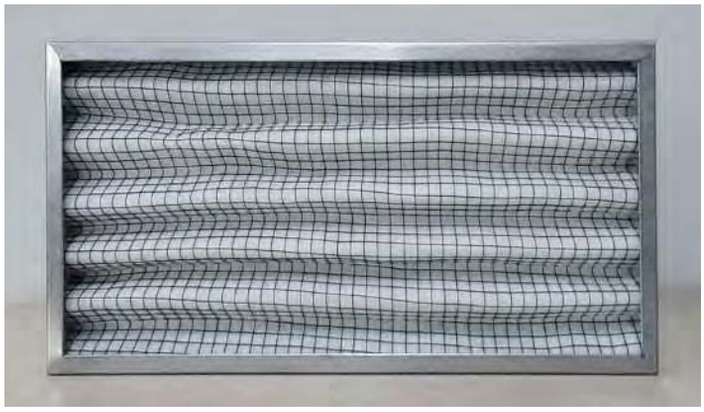
Hinged type access doors are provided for the filter and blower section.

Nylon type handles are provided as standard.

Aluminium type hinges are provided as standard.

For cooling coil, liftoff type access doors are provided. These doors are held together with nylon type panel blocks.

Filters



Panel Filter

Washable Industrial Robust panel filter is provided as standard for all the AHU's

These filters are with 100% polyester non-woven fibers and with wire mesh support and with G3 efficiency.

Bag Filter

The bag filters are with high quality synthetic media formed into dust holding pockets.

The filters are with 12" depth and with 60~65% efficiency.

The bag filters are standard for 100% fresh air units and can be provided as optional for recirculating type AHU's.

Bag filters with F8 & F9 efficiency can also be provided as optional.





Cooling Coils

Cooling coils are sized and designed by the computerized software selection program and manufactured in our state-of-the-art technology plant, tested and certified as per the test conditions specified by AHRI 410 standards.

Corrugated plate type fin is die-formed. Fin collars are full drawn to provide accurate control fin spacing and maximum contact with tubes. All coils are leak tested and pressure tested at 450 psi.

The ⅜" coil and ½" coils are AHRI certified for R410A and R407C refrigerant and for Chilled water application.

Cooling coils with hydrophillic fins (Blue fins) can be provided as option as per project requirements. Cooling coils with Copper tube and Copper fins can also be provided as option as per project requirements.

Condensate Drain Pan

Specially designed drain pan made of GI construction duly finished and with powder-coating and insulated to prvent any condensation.

The drain connection is available from both the sides of the drain pan so that it is easy to coneect to the main drains at site.

Air Control Damper



Inlet section with manual damper having opposed blades can be provided as per project requirement.

The Dampers are with GI blades and frame with opposed blades.

These are designed to provide superior air control with high performance and heavy duty construction.

These dampers are tested for Air Performance in accordance with ANSI/AMCA Standard 500-D

Motorized dampers or dampers with aluminium blades can be provided as optional as per project requirement.

Blower Section



The centrifugal fans are DIDW type which is either Forward curve or Backward curve type.

The SYD series, Forward curve blowers are developed using international advanced technologies.

These are with high efficiency, low noise and low power consumption

The SYD blowers are AMCA certified.

The SYQ series, Backward curve blowers are developed using international advanced technologies.

These are with high efficiency, low noise and low power consumption.

These blowers can handle the static load upto 3,000 pa.
The SYQ blowers are AMCA certified.



Electric Heater



The electric heaters are manufactured from U-shaped finned heater built into heavy galvanized steel frame and positioned in the unit. The safety control use a high temperature cut out.

This type of heater provides an even temperaure as well as it is can be easily replaced in case of any failure.

The electric heaters are provided as optional as per the project requirement.

Horse Show Heat Pipe

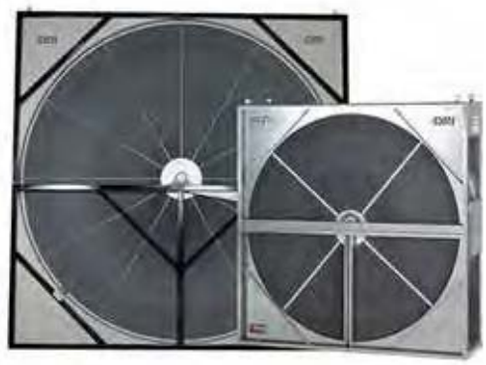


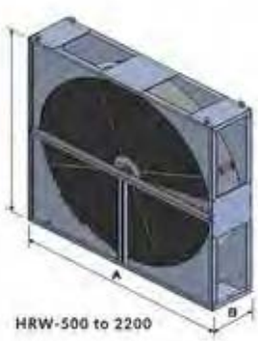
Heat pipes are used extensively in dehumidification, heat recovery and improving the indoor air quality.

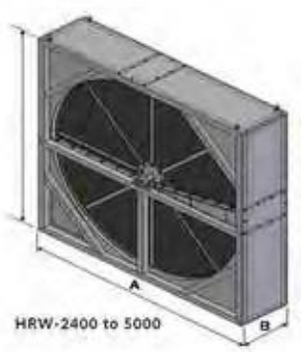
The Horse shoe heat pipe are included in the unit to help in removing the moisture.

The heat pipes sused are tested and certified in line with BS 5141 and European standards EN 305 & 306.

Heat Recovery Wheels







The Heat Recovery Wheels are used are desiccant type wheels which are used for energy savings and it also helps in meeting the Indoor Air Quality Requirements.

The Heat Recovery Wheels are Eurovent certified and AHRI certified.

Generic Compliance Statement for Standard Air Handling Units

Unit Construction

Unit Casings

- Unit casings are double skinned panels.
- Casing is assembled with self-supporting modular panel elements with an integrated base frame made of zinc coated steel and sections along upper sides of the units.

Casing panels

- Casing panels are 25mm and 45mm thick with foam insulation.

Sheet Metal

- Sheet metal thickness for all units is 0.8mm for Inner skin and 0.8mm for Outer skin
- Inner skin mist coated
- Outer skin powder coated with a thickness of 40-60µm
- Inside and outside of the panel walls are completely smooth
- Salt spray test in accordance with ASTM B117 standard for powder-coated panels

Base Frame

- Base frame is with 100mm height and is made from hot dipped galvanized steel.

Service Doors

- Service doors are provided for the filter and blower access with a width of greater than 500mm
- Service doors are provided with gaskets and handles
- 2 types of service doors are available, with hinges and lift off type which can be provided as per the customer's requirements

Acoustical Insulation through the Panel

- Foam insulation used is as insulation.
- The foam insulation is a poly blend with HCFC 141b

Properties	Performances
Core density	32-8~34 kg/m³
Thermal conductivity @10°C	19.7 mW/mK (initial)
Moulding density	38~40 kg/m³

Vibration Isolation

- The air handling unit has internal vibration insolation system. The mounting of the fan, motor and drive assembly is on a single base frame supported by rubber mounts.
- The fan discharge is connected to the air handling unit casing through flexible canvas connection to prevent vibration transfer.

Filters

- The filters provided are of European/Indian/Asian manufacturer.
- Filters are provided with suitable gaskets to prevent air by pass.
- The construction of the filter is done rigidly so as to withstand the working conditions.
- The filter frame is made of GI or equivalent fabricated construction.

Pre filters (Panel filters)

- The pre-filter material is of synthetic material, pleated to provide a large effective area.
- The filter cells are suitable for side withdrawal on the inspection side.
- The filter class is G4 as per EN 779 with an average arrestance of 80 - 90%

Bag filters

- Bag filters are pocket type filters having filter media Class F7 and tested as per ASHRAE Standard 52.2-2012.
- The estimated Minimum Efficiency Reporting Value (MERV) is MERV 12.
- The media is non-woven synthetic fibre, duly stitched to from pocket.
- The separator rods are of GI/SS rods.
- The frame is extruded aluminum.

Cooling Coils

- 2 types of Cooling Coils can be provided:

  a) DX Cooling Coils
  b) Chilled Water Cooling Coils

- Coil Type general options:

  a) $\frac{3}{8}^{th}$ " Coil – AHRI Certified
  b) ½" Coil – AHRI Certified
  c) $\frac{5}{8}^{th}$ " Coil

- Coils are fabricated from heavy gauge copper tubing expanded into Aluminum fins.
- Headers are made of heavy section seamless copper tubing with connections made of copper pipe for better corrosion resistance.
- The cooling coil is leak tested and pressure tested at 450 psi.
- Coils designed such that the maximum coil face velocity does not exceed 2.54m/s.
- The coil is mounted in a non-moveable way.
- Header connection is sealed with rubber grommet.

- Drain pan is of standard GI construction, and having black mastic coating inside. The drain pans are located inside the unit.
- No condensation on the external panels at normal conditions.

Blowers and Motors

- Fans are double inlet, double width, forward curve/backward curve type
- They are tested and certified in accordance with AMCA standards.
- Every individual fan is run and tested before dispatching.
- Flexible duct is provided between the blower and panel. (inside the unit)
- Fan outlet velocity is not more than 15m/sec.
- The blower motors are with IE2/IE3 efficiency rating.
- The degree of protection for the blower motor is IP55 with class F insulation.
- Bearings are self lubricating type.
- The bearing shall be selected for life of 100,000 Hours operation.
- Fan drive is rated for 1.15 service factor.
- The fan motor is suitable for operating 50Hz and 60Hz electrical power supply.
- The motor is mounted on a common, torsionally rigid, galvanized steel base frame.

07

CHILLED WATER AIR HANDLING UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



CHILLED WATER AIR HANDLING UNIT

AIR CONDITIONERS

Capacity 6-25TR

HY-3IDW/3IDB - 50/60Hz



صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

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INTRODUCTION

Units are designed and manufactured to suit aesthetics of buildings. These units are designed for District Cooling Applications. Applications:

- Small residence.
- Apartment houses.
- Light commercial establishments.
- Mosques.
- Schools.
- Hospitals.
- High rise building.
- Hotels and Motels.
- Fine restaurants.

These units provide flexibility of architectural design, economy of operation and space usage, individual room control with privacy, quietness, versatility of location and installation and multiplicity of control systems. We are sure that above reasons will form the first choice for your equipment selection.

Single Skin HY-AHU



Double Skin HY-AHU



FEATURES

Features

- The Indoor split units are designed by latest fan coil technology, highly efficient in performance, horizontal* or vertical air flow and are suitable for mounting on the floor or hanging on the ceiling.
- These low airflow Indoor split units are developed taking into consideration of compact design and can either be ceiling suspended (frames to be provided at the site for ceiling suspension) or floor mounted as per the site requirements.
- All indoor split units are encased 1-piece fabricated, assembled, leak tested, piped, internally wired and are suitable for chilled water application.
- Primary control voltage is 24volts through transformer.
- Units are completely factory wired with single point power input provided with knockouts for utility, main power supply and control connections.
- The Indoor units are with single skin construction with nitrile rubber insulation.
- Indoor unit with double skin construction can be provided as optional.

Filters

- The filter provided is of European/Indian/Asian manufacturer.
- The filter media is aluminium and is washable type with a class EN779 "G-2".
- The average arrestance is 70~80% for particle < 20 microns.
- Filters are provided with suitable gaskets to prevent air by pass.
- UL certified filters can be provided as an optional feature.
- Aluminum filters with G-4 class can be provided as an optional feature.

Cooling Coils

- Coil Type general options:
  a) 3/8th Coil – HY AHRI Certified
  b) 1/2 Coil – HY AHRI Certified
- Coils are fabricated from heavy gauge copper tubing expanded into Aluminum fins.
- Headers are made of heavy section seamless copper tubing with connections made of copper pipe for better corrosion resistance.
- The cooling coil is leak tested and pressure tested at 450 psi.
- The coil is mounted in a non-moveable way.
- Header connection is sealed with rubber grommet.
- Drain pan is of standard GI construction, and having black mastic coating inside. The drain pans are located inside the unit.
- No condensation on the external panels at normal conditions.
- Hydrophillic (blue) fins can be provided as an optional feature.
- Stainless steel drain pan can be provided as optional feature.

Blowers and Motors

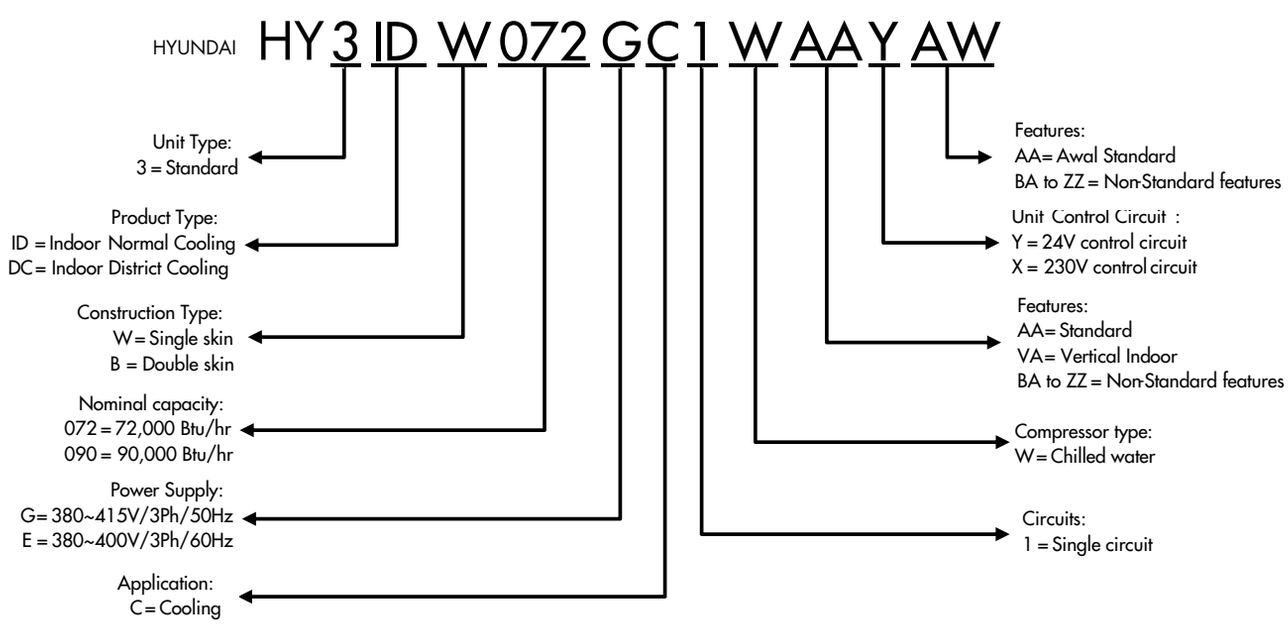
- Fans are double inlet, double width, forward curve
- They are tested and certified in accordance with AMCA standards.
- Every individual fan is run and tested before dispatching.
- Fan outlet velocity is not more than 15m/sec.
- The bearing shall be selected for life of 100,000 Hours operation.
- The fan motor is suitable for operating 50Hz and 60Hz electrical power supply.
- The motor is mounted on a common, torsionally rigid, galvanized steel base frame.

OPTIONAL FEATURES & NOMENCLATURE

Optional Features

Filters

- Double skin construction.
- Electric heater.
- G4 type aluminium filter
- Synthetic filter.
- Hydrophilic fins for evaporator coil.
- Stainless steel drain pan.
- Fire alarm interlock.
- The units can also be ceiling suspended (frames to be provided at the site for ceiling suspension)



ENGINEERING SPECIFICATIONS

50Hz

TECHNICAL SPECIFICATIONS - 50Hz									
Description		Unit of measurement	Engineering Specifications							
			HY3IDW072	HY 3IDW090	HY 3IDW120	HY 3IDW150	HY 3IDW180	HY 3IDW216	HY 3IDW240	HY 3IDW300
			3IDB072	3IDB090	3IDB120	3IDB150	3IDB180	3IDB216	3IDB240	3IDB300
Nominal Airflow		cfm	2,286	2,857	3,810	4,762	5,715	6,858	7,620	9,525
		l/s	1,079	1,348	1,798	2,247	2,697	3,237	3,596	4,495
Nominal Cooling Capacity		Btu/hr	76,153	89,690	127,041	160,750	213,454	218,509	237,346	338,722
External Static Pressure		Inch H_2O	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
		Pa	100	100	100	100	100	100	100	150
Evaporator Blower	Power supply	----	380V/3Ph/50Hz							
	Type	----	DIDW Forward Curve Centrifugal Type							
	Drive	nos	Belt Driven with Variable Pitch Pulley							
	Dia, x Width .in Inch	----	12 x 12	15 x 15	15 x 15	15 x 15	15 x 15	18 x 18	15 x 15 (Twin)	15 x 15 (Twin)
Blower Motor	Motor HP	----	1 ⅓	1 ⅓	2 ⅔	2 ⅔	5	5	5	7 ½
	Motor RPM	----	1440 ~ 1450							
Evaporator Coil	Type	----	Corrugated aluminium fins & Inner grooved copper tube							
	Tube-Dia-Rows-FPI	----	3 or 4 number of rows with 14FPI to 16FPI fin spacing							
	Face Area	m^2	0.63	0.93	0.90	0.90	1.54	1.53	1.70	1.91
		ft^2	6.77	9.97	9.71	9.71	16.61	16.49	18.26	20.55
Filter	Type	----	Aluminium							
	Quantity	nos	2	4	4	4	2	2	3	3
Approximate Unit Weight (Single skin construction)		kg	199	272	279	285	427	437	576	576
		lbs	439	600	615	628	941	963	1,270	1,270
Approximate Unit Weight (Double skin construction)		kg	234	316	323	329	448	459	605	605
		lbs	516	697	712	725	988	1,012	1,334	1,334

60Hz

TECHNICAL SPECIFICATIONS - 60Hz									
Description		Unit of measurement	Engineering Specifications							
			HY 3IDW072	HY 3IDW090	HY 3IDW120	HY 3IDW150	HY 3IDW180	HY 3IDW216	HY 3IDW240	HY 3IDW300
			3IDB072	3IDB090	3IDB120	3IDB150	3IDB180	3IDB216	3IDB240	3IDB300
Nominal Airflow		cfm	2,286	2,857	3,810	4,762	5,715	6,858	7,620	9,525
		l/s	1,079	1,348	1,798	2,247	2,697	3,237	3,596	4,495
Nominal Cooling Capacity		Btu/hr	76,153	89,690	127,041	160,750	213,454	218,509	237,346	338,722
External Static Pressure		Inch H_2O	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
		Pa	100	100	100	100	100	100	100	150
Evaporator Blower	Power supply	----	380V/3Ph/60Hz							
	Type	----	DIDW Forward Curve Centrifugal Type							
	Drive	nos	Belt Driven with Variable Pitch Pulley							
	Dia, x Width .in Inch	----	12 x 12	15 x 15	15 x 15	15 x 15	15 x 15	18 x 18	15 x 15 (Twin)	15 x 15 (Twin)
Blower Motor	Motor HP	----	1.5	3	3	3	5	5	5	5
	Motor RPM	----	1,746	1,740			1,745			
Evaporator Coil	Type	----	Corrugated aluminium fins & Inner grooved copper tube							
	Tube-Dia-Rows-FPI	----	3 or 4 number of rows with 14FPI to 16FPI fin spacing							
	Face Area	m^2	0.63	0.93	0.90	0.90	1.54	1.53	1.70	1.91
		ft^2	6.77	9.97	9.71	9.71	16.61	16.49	18.26	20.55
Filter	Type	----	Aluminium							
	Quantity	nos	2	4	4	4	2	2	3	3
Approximate Unit Weight (Single skin construction)		kg	199	272	279	285	427	437	576	576
		lbs	439	600	615	628	941	963	1,270	1,270
Approximate Unit Weight (Double skin construction)		kg	234	316	323	329	448	459	605	605
		lbs	516	697	712	725	988	1,012	1,334	1,334

• Specifications are subjected to change without notice in accordance with our policy of continuous research and product development

STANDARD COOLING PERFORMANCE

HY-3IDW072K / HY-3IDB072K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	ΔT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW072 / HY 3IDB072	HIGH	2,497	8	19.4	77,767	56,370	48.09	15.9	63,667	49,218	33.46	10.7	42,980	39,608	16.50
			10	13.9	70,029	51,800	26.88	11.0	54,989	43,828	17.43	7.9	39,671	37,960	9.64
			12	10.2	61,097	46,374	15.31	7.8	47,114	38,918	9.59	6.0	35,769	35,769	5.81
	MED	2,286	8	18.2	73,199	52,773	43.22	14.9	59,984	46,088	30.12	10.0	40,151	36,782	14.63
			10	13.1	65,989	48,541	24.21	10.3	51,833	41,067	15.70	7.4	37,049	35,274	8.55
			12	9.6	57,558	43,455	13.78	7.3	43,981	36,174	8.50	5.6	33,330	33,330	5.13
	LOW	1,620	8	14.2	57,179	40,448	27.95	11.7	47,041	35,361	19.63	7.6	30,523	27,384	9.01
			10	10.3	51,701	37,298	15.75	8.1	40,613	31,509	10.19	5.6	28,059	26,275	5.23
			12	7.5	44,901	33,288	8.88	5.5	33,193	26,935	5.17	4.1	24,724	24,724	3.03

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	ΔT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW072 / HY 3IDB072	HIGH	2,497	8	25.5	102,360	66,733	78.05	22.1	88,535	60,108	59.82	15.8	63,429	48,024	32.67
			10	19.0	95,217	62,824	46.21	16.1	80,793	55,777	34.25	10.8	54,020	42,254	16.61
			12	14.5	87,307	58,436	28.67	12.0	72,039	50,764	20.26	7.9	47,541	38,421	9.58
	MED	2,286	8	24.0	96,290	62,495	70.08	20.8	83,359	56,302	53.80	14.9	59,843	45,022	29.50
			10	17.9	89,668	58,887	41.56	15.2	76,153	52,296	30.84	10.2	50,998	39,649	15.00
			12	13.7	82,283	54,810	25.82	11.3	67,963	47,638	18.28	7.4	44,401	35,730	8.50
	LOW	1,620	8	18.7	75,037	47,952	45.17	16.2	65,188	43,234	34.87	11.8	47,137	34,666	19.37
			10	14.0	70,176	45,337	27.00	11.9	59,812	40,305	20.16	8.0	40,186	30,577	9.84
			12	10.7	64,579	42,297	16.85	8.9	53,421	36,753	11.94	5.6	33,638	26,687	5.21

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	ΔT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW072 / HY 3IDB072	HIGH	2,497	8	28.6	115,086	74,882	95.94	25.2	101,346	68,356	75.90	19.1	76,560	56,644	45.54
			10	21.5	108,132	71,096	57.82	18.7	93,879	64,218	44.61	13.5	67,827	51,445	24.79
			12	16.7	100,520	66,903	36.74	14.2	85,569	59,524	27.39	9.6	57,496	45,021	13.40
	MED	2,286	8	26.9	108,233	70,108	86.11	23.8	95,391	64,009	68.22	18.0	72,185	53,077	41.04
			10	20.3	101,803	66,622	51.99	17.6	88,463	60,193	40.17	12.8	64,034	48,268	22.40
			12	15.7	94,722	62,741	33.08	13.4	80,715	55,847	24.71	9.0	54,295	42,269	12.11
	LOW	1,620	8	21.0	84,238	53,728	55.39	18.6	74,486	49,090	44.12	14.2	56,762	40,813	26.89
			10	15.8	79,561	51,223	33.66	13.8	69,398	46,341	26.21	10.1	50,527	37,248	14.73
			12	12.3	74,306	48,387	21.58	10.6	63,518	43,116	16.20	7.1	42,809	32,648	7.97

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW090K / HY-3IDB090K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW090 / HY 3IDB090	HIGH	3,121	8	22.6	90,837	66,714	61.22	18.7	74,925	58,662	43.27	12.5	49,905	46,566	20.80
			10	16.5	82,857	61,933	35.10	13.2	65,924	52,989	23.23	9.3	46,415	44,808	12.31
			12	12.2	73,659	56,282	20.61	9.2	55,262	45,986	12.30	7.1	42,420	42,420	7.59
	MED	2,857	8	21.3	85,634	62,536	55.22	17.6	70,647	54,970	38.92	11.7	46,714	43,318	18.51
			10	15.6	78,142	58,079	31.63	12.4	62,231	49,711	20.98	8.7	43,445	41,712	10.96
			12	11.6	69,536	52,831	18.64	8.6	51,853	42,931	10.99	6.6	39,658	39,658	6.74
	LOW	2,025	8	16.8	67,340	48,192	36.14	13.9	55,738	42,387	25.62	8.9	35,834	32,486	11.59
			10	12.3	61,599	44,855	20.76	9.8	49,132	38,382	13.80	6.6	33,268	31,334	6.84
			12	9.1	54,811	40,819	12.25	6.8	40,607	32,978	7.15	5.0	30,058	30,058	4.14

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW090 / HY 3IDB090	HIGH	3,121	8	29.6	118,834	78,426	98.25	25.7	103,138	70,930	75.77	18.7	74,767	57,299	42.38
			10	22.2	111,340	74,275	58.93	19.0	95,083	66,358	44.28	13.0	64,944	51,183	22.24
			12	17.1	103,150	69,679	37.30	14.3	85,966	61,071	26.79	9.3	55,621	45,281	12.24
	MED	2,857	8	27.8	111,958	73,536	88.44	24.2	97,240	66,515	68.28	17.6	70,577	53,747	38.22
			10	20.9	105,010	69,708	53.20	17.9	89,690	62,257	39.86	12.3	61,385	48,079	20.14
			12	16.1	97,295	65,403	33.59	13.5	81,217	57,380	24.25	8.7	52,063	42,187	10.90
	LOW	2,025	8	21.9	87,889	56,762	57.81	19.1	76,564	51,368	44.86	13.9	55,899	41,582	25.33
			10	16.5	82,697	53,947	34.91	14.1	70,857	48,222	26.31	9.7	48,757	37,327	13.42
			12	12.7	76,832	50,735	22.15	10.7	64,253	44,515	16.01	6.6	39,871	31,784	6.81

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW090 / HY 3IDB090	HIGH	3,121	8	33.2	133,376	87,888	120.39	29.3	117,759	80,501	95.68	22.4	89,654	67,235	58.26
			10	25.1	126,050	83,850	73.32	21.9	109,912	76,084	57.04	16.1	80,524	61,701	32.51
			12	19.6	118,107	79,420	47.29	16.9	101,316	71,159	35.81	11.6	69,839	54,975	18.28
	MED	2,857	8	31.3	125,634	82,391	108.35	27.6	110,997	75,471	86.20	21.1	84,621	63,062	52.58
			10	23.7	118,858	78,674	66.18	20.7	103,691	71,387	51.43	15.2	76,084	57,936	29.40
			12	18.5	111,420	74,550	42.63	15.9	95,664	66,822	32.35	11.0	66,038	51,673	16.56
	LOW	2,025	8	24.5	98,528	63,532	70.71	21.7	87,293	58,223	56.53	16.7	66,931	48,736	34.80
			10	18.6	93,517	60,827	43.36	16.3	81,847	55,246	33.92	12.0	60,371	44,929	19.51
			12	14.6	87,940	57,792	28.10	12.6	75,676	51,823	21.35	8.7	52,494	40,186	11.05

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW120K / HY-3IDB120K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW120 / HY 3IDB120	HIGH	4,162	8	31.3	125,961	91,813	43.17	25.7	103,128	80,209	30.02	17.5	70,016	64,899	14.96
			10	22.6	113,581	84,455	24.24	17.8	89,143	71,453	15.65	12.9	64,622	62,156	8.74
			12	16.5	99,111	75,605	13.78	12.8	76,748	63,689	8.69	9.7	58,237	58,237	5.26
	MED	3,810	8	29.5	118,682	86,024	38.86	24.2	97,276	75,178	27.09	16.3	65,456	60,305	13.28
			10	21.3	107,028	79,142	21.77	16.8	84,135	67,021	14.14	12.1	60,390	57,788	7.76
			12	15.5	93,439	70,890	12.42	11.9	71,687	59,229	7.71	9.0	54,282	54,282	4.65
	LOW	2,700	8	23.2	93,085	66,150	25.31	19.1	76,570	57,854	17.77	12.4	49,898	45,000	8.22
			10	16.8	84,172	61,000	14.27	13.2	66,086	51,532	9.21	9.2	45,838	43,130	4.77
			12	12.2	73,185	54,488	8.07	9.0	54,202	44,176	4.71	5.8	35,109	35,109	2.16

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW120 / HY 3IDB120	HIGH	4,162	8	41.2	165,691	108,547	69.97	35.7	143,303	97,817	53.63	25.6	102,750	78,258	29.38
			10	30.7	154,181	102,217	41.45	26.1	130,818	90,787	30.70	17.5	87,584	68,877	14.93
			12	23.5	141,414	95,097	25.72	19.4	116,762	82,683	18.21	12.9	77,448	62,863	8.69
	MED	3,810	8	38.8	156,038	101,745	62.96	33.6	135,070	91,704	48.32	24.2	96,970	73,389	26.48
			10	28.9	145,347	95,893	37.35	24.6	123,452	85,205	27.73	16.5	82,747	64,674	13.51
			12	22.2	133,440	89,288	23.23	18.3	110,273	77,663	16.47	12.1	72,378	58,492	7.71
	LOW	2,700	8	30.4	122,136	78,350	40.88	26.4	106,076	70,665	31.55	19.1	76,689	56,697	17.52
			10	22.7	114,189	74,063	24.40	19.4	97,333	65,879	18.24	13.1	65,473	50,051	8.94
			12	17.4	105,111	69,115	15.25	14.4	86,955	60,081	10.81	9.2	54,958	43,778	4.75

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW120 / HY 3IDB120	HIGH	4,162	8	46.4	186,258	121,790	85.99	40.9	163,996	111,218	68.01	30.9	123,897	92,235	40.81
			10	34.9	175,038	115,652	51.84	30.3	151,971	104,512	40.00	22.0	109,878	83,814	22.27
			12	27.0	162,778	108,863	32.97	23.1	138,657	96,941	24.64	15.5	93,249	73,386	12.06
	MED	3,810	8	43.7	175,366	114,130	77.33	38.5	154,532	104,243	61.25	29.2	116,933	86,497	36.85
			10	32.9	164,971	108,469	46.70	28.6	143,351	98,047	36.08	20.7	103,797	78,681	20.12
			12	25.5	153,545	102,176	29.74	21.7	130,846	90,984	22.21	14.7	88,119	68,943	10.91
	LOW	2,700	8	34.1	137,114	87,791	50.14	30.2	121,203	80,235	39.92	23.0	92,299	66,721	24.27
			10	25.8	129,487	83,696	30.46	22.5	112,887	75,723	23.67	16.4	82,212	60,914	13.32
			12	20.1	120,928	79,061	19.53	17.2	103,363	70,471	14.66	11.6	69,683	53,391	7.22

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW150K / HY-3IDB150K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW150 / HY 3IDB150	HIGH	5,202	8	39.7	159,378	115,895	65.33	32.5	130,453	101,204	45.40	22.4	89,592	82,695	23.09
			10	28.6	143,801	106,662	36.63	22.6	113,207	90,448	23.86	16.6	83,049	79,446	13.59
			12	21.0	126,167	95,919	21.08	16.4	98,789	81,545	13.56	12.6	75,583	75,583	8.32
	MED	4,762	8	37.4	150,290	108,658	58.91	30.7	123,185	94,938	41.07	20.9	83,785	76,843	20.51
			10	27.0	135,809	100,134	33.15	21.3	106,978	84,919	21.59	15.5	77,688	73,897	12.08
			12	19.8	119,246	90,120	19.10	15.4	92,389	75,887	12.05	11.8	70,654	70,654	7.39
	LOW	3,375	8	29.4	118,215	83,750	38.57	24.2	97,339	73,278	27.13	16.0	63,986	57,352	12.74
			10	21.4	107,301	77,466	21.88	16.9	84,711	65,705	14.27	11.9	59,327	55,320	7.51
			12	15.6	94,222	69,756	12.58	11.7	70,434	56,881	7.47	8.9	53,571	53,571	4.54

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW150 / HY 3IDB150	HIGH	5,202	8	52.1	209,493	136,980	105.74	45.1	181,070	123,350	80.94	32.3	129,656	98,555	44.18
			10	38.8	194,968	129,009	62.67	32.9	165,350	114,521	46.37	22.2	110,886	86,983	22.62
			12	29.7	179,001	120,124	38.96	24.6	147,884	104,480	27.60	16.6	99,497	80,402	13.50
	MED	4,762	8	49.1	197,425	128,471	95.25	42.5	170,796	115,710	73.03	30.6	122,579	92,550	40.05
			10	36.6	183,953	121,113	56.56	31.1	156,214	107,576	41.98	21.0	104,940	81,784	20.52
			12	28.1	169,091	112,888	35.25	23.3	139,855	98,243	25.02	15.5	93,072	74,849	12.00
	LOW	3,375	8	38.5	154,862	99,114	62.11	33.5	134,481	89,354	47.93	24.3	97,301	71,703	26.66
			10	28.9	144,967	93,786	37.15	24.6	123,640	83,437	27.81	16.7	83,569	63,609	13.70
			12	22.2	133,812	87,720	23.34	18.4	111,010	76,409	16.62	11.8	71,061	56,191	7.46

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW150 / HY 3IDB150	HIGH	5,202	8	58.6	235,441	153,660	129.88	51.6	207,154	140,215	102.59	39.0	156,306	116,136	61.44
			10	44.1	221,233	145,901	78.29	38.3	191,958	131,758	60.35	27.7	138,719	105,604	33.56
			12	34.2	205,802	137,374	49.83	29.2	175,296	122,307	37.25	19.7	118,220	92,795	18.31
	MED	4,762	8	55.2	221,816	144,073	116.93	48.7	195,334	131,492	92.50	36.8	147,652	108,987	55.56
			10	41.6	208,675	136,931	70.63	36.1	181,232	123,695	54.53	26.2	131,239	99,254	30.44
			12	32.3	194,328	129,045	45.03	27.5	165,574	114,878	33.60	18.6	111,953	87,324	16.63
	LOW	3,375	8	43.3	173,769	111,010	76.09	38.2	153,560	101,401	60.56	29.1	116,920	84,275	36.81
			10	32.7	164,230	105,897	46.31	28.5	143,180	95,783	35.98	20.8	104,454	77,129	20.32
			12	25.5	153,622	100,164	29.77	21.8	131,442	89,332	22.38	14.9	89,437	68,171	11.20

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW180K / HY-3IDB180K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW180 / HY 3IDB180	HIGH	6,243	8	54.3	218,124	154,606	34.99	44.6	178,976	134,913	24.46	30.4	122,033	109,238	12.25
			10	39.2	196,783	142,305	19.64	30.7	154,254	120,044	12.66	22.6	113,227	105,439	7.23
			12	28.4	170,938	127,022	11.07	22.4	134,434	108,448	7.20	17.0	102,350	102,350	4.38
	MED	5,715	8	50.9	204,581	144,323	31.29	41.8	167,998	125,947	21.87	28.3	113,519	101,087	10.78
			10	36.8	184,679	132,906	17.56	28.9	144,832	112,109	11.33	21.0	105,228	97,595	6.34
			12	26.6	160,347	118,597	9.89	20.8	124,906	100,411	6.32	15.8	94,820	94,820	3.83
	LOW	4,050	8	39.2	157,436	109,309	19.72	32.3	129,753	95,460	13.87	21.2	84,901	74,285	6.47
			10	28.4	142,443	100,833	11.12	22.2	111,540	84,813	7.15	15.6	78,187	71,652	3.76
			12	20.4	122,616	89,368	6.17	15.4	92,326	73,584	3.71	9.9	59,321	59,321	1.68

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW180 / HY 3IDB180	HIGH	6,243	8	71.3	286,608	183,419	56.65	61.9	248,432	165,106	43.57	44.6	178,737	131,915	23.99
			10	53.3	267,392	173,069	33.73	45.3	227,307	153,568	25.07	30.4	152,142	116,186	12.18
			12	40.7	245,519	161,167	20.96	33.7	202,596	139,790	14.79	22.6	135,640	107,130	7.19
	MED	5,715	8	66.8	268,536	171,210	50.51	58.0	233,002	154,159	38.91	41.9	167,979	123,266	21.51
			10	50.0	250,835	161,703	30.13	42.5	213,454	143,532	22.44	28.5	142,866	108,529	10.87
			12	38.3	230,514	150,685	18.75	31.6	190,333	130,711	13.24	21.0	126,114	99,245	6.32
	LOW	4,050	8	51.3	206,057	129,736	31.67	44.7	179,472	116,938	24.56	32.5	130,342	93,746	13.75
			10	38.5	193,297	122,932	19.04	32.9	165,082	109,227	14.26	22.1	110,746	82,549	6.94
			12	29.6	178,112	114,784	11.91	24.5	147,237	99,501	8.42	15.6	93,746	73,010	3.75

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW180 / HY 3IDB180	HIGH	6,243	8	80.1	321,903	205,596	69.52	70.7	284,058	187,574	55.18	53.7	215,482	155,443	33.37
			10	60.4	303,312	195,629	42.08	52.6	263,930	176,677	32.62	38.1	191,142	141,463	18.17
			12	46.9	282,618	184,442	26.87	40.0	240,930	164,019	20.07	26.9	161,666	123,786	9.80
	MED	5,715	8	75.0	301,487	191,842	61.94	66.3	266,298	175,073	49.25	50.5	202,402	145,190	29.88
			10	56.6	284,425	182,718	37.57	49.4	247,749	165,074	29.18	35.9	179,756	132,281	16.30
			12	44.0	265,296	172,412	24.03	37.6	226,380	153,376	17.98	25.3	151,980	115,761	8.78
	LOW	4,050	8	57.5	230,978	145,165	38.74	51.0	204,754	132,608	31.00	39.1	156,783	110,280	19.05
			10	43.6	218,877	138,735	23.67	38.1	191,384	125,495	18.51	27.9	139,798	100,844	10.47
			12	34.0	204,869	131,258	15.24	29.1	175,428	116,904	11.48	19.5	117,248	87,787	5.55

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW216K / HY-3IDB216K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW216 / HY 3IDB216	HIGH	7,492	8	55.9	224,744	164,097	48.89	45.4	182,338	142,352	33.47	32.6	130,590	121,120	18.33
			10	40.0	200,438	149,603	26.95	31.0	155,558	125,467	17.07	24.1	120,567	115,921	10.72
			12	28.7	172,989	132,710	15.02	23.8	143,355	118,854	10.68	18.2	109,397	109,397	6.52
	MED	6,858	8	52.9	212,419	154,138	44.26	43.0	172,630	133,819	30.42	30.5	122,250	112,607	16.33
			10	37.8	189,651	140,662	24.40	29.4	147,481	118,117	15.54	22.6	112,933	107,917	9.55
			12	27.3	164,072	125,052	13.69	22.3	134,266	110,718	9.51	17.1	102,499	102,499	5.82
	LOW	4,860	8	41.9	168,486	119,604	29.46	34.3	137,671	104,046	20.42	23.3	93,594	84,126	10.17
			10	30.1	151,375	109,723	16.40	23.6	118,275	92,339	10.51	17.3	86,700	81,036	5.99
			12	21.9	131,574	97,983	9.28	17.1	103,024	83,327	5.97	13.1	78,651	78,651	3.65

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
Hy 3IDW216 / HY 3IDB216	HIGH	7,492	8	74.0	297,330	194,887	80.03	63.6	255,519	174,719	60.65	45.0	180,363	138,086	32.37
			10	54.6	274,141	182,118	46.67	46.0	230,662	160,676	34.06	30.8	154,388	122,158	16.55
			12	41.4	249,103	168,109	28.55	33.8	203,415	144,867	19.78	24.0	144,441	117,252	10.64
	MED	6,858	8	69.9	280,804	183,106	72.36	60.2	241,570	164,204	54.94	42.6	170,793	129,847	29.33
			10	51.6	259,294	171,325	42.30	43.6	218,509	151,273	30.99	28.9	144,523	113,700	14.74
			12	39.1	235,827	158,275	25.88	32.1	193,009	136,602	18.04	22.5	135,289	109,253	9.48
	LOW	4,860	8	55.2	221,868	142,117	47.79	47.7	191,727	127,626	36.56	34.1	136,936	101,416	19.89
			10	41.1	206,179	133,660	28.27	34.8	174,621	118,263	20.88	23.2	115,981	88,952	10.01
			12	31.3	188,608	124,081	17.46	25.7	154,991	107,281	12.22	17.3	103,859	82,304	5.96

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW216 / HY 3IDB216	HIGH	7,492	8	83.3	334,855	219,004	98.67	73.0	293,182	199,085	77.27	54.5	218,517	163,363	45.25
			10	62.1	312,031	206,505	58.61	53.6	268,968	185,542	44.67	38.2	191,035	146,717	24.10
			12	47.7	287,428	192,844	36.64	40.4	242,733	170,543	27.01	28.5	171,397	135,198	14.40
	MED	6,858	8	78.7	316,141	205,698	89.16	69.0	277,075	187,042	69.94	51.6	206,999	153,657	41.16
			10	58.7	295,021	194,191	53.10	50.7	254,598	174,563	40.54	36.2	181,333	138,279	22.00
			12	45.2	272,228	181,613	33.32	38.3	230,152	160,698	24.59	26.7	160,451	125,879	12.82
	LOW	4,860	8	62.1	249,405	159,416	58.74	54.7	219,489	145,138	46.40	41.3	165,449	119,708	27.76
			10	46.6	234,122	151,216	35.33	40.5	203,044	136,218	27.24	29.1	145,908	108,428	14.97
			12	36.1	217,326	142,124	22.42	30.7	184,553	126,014	16.64	20.5	122,934	94,566	8.01

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW240K / HY-3IDB240K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW240 / HY 3IDB240	HIGH	8,325	8	60.2	242,069	177,817	82.73	49.4	198,039	155,352	57.68	35.1	140,548	130,879	31.00
			10	43.6	218,754	163,832	46.68	34.4	172,270	139,040	30.35	26.1	130,819	125,902	18.38
			12	32.0	192,791	147,822	27.03	25.9	155,909	129,312	18.40	20.0	120,208	120,208	11.45
	MED	7,620	8	57.0	229,134	167,226	75.17	46.7	187,543	146,072	52.28	32.9	131,738	121,805	27.65
			10	41.3	207,358	154,268	42.48	32.6	163,581	131,059	27.72	24.5	122,729	117,343	16.43
			12	30.4	182,996	139,377	24.65	24.3	146,265	120,610	16.44	18.8	112,848	112,848	10.24
	LOW	5,400	8	45.5	182,681	130,300	50.42	37.4	150,296	114,023	35.38	25.3	101,500	91,416	17.45
			10	33.1	166,310	120,812	28.78	26.3	131,892	102,891	18.92	19.0	94,881	88,546	10.44
			12	24.5	147,657	109,750	16.89	18.8	113,038	91,250	10.44	14.5	87,396	87,396	6.53

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW240 / HY 3IDB240	HIGH	8,325	8	79.1	317,925	209,718	133.64	68.3	274,196	188,688	101.94	48.9	195,822	150,631	55.55
			10	58.8	295,563	197,330	79.11	50.0	250,485	175,203	58.69	33.5	167,877	133,103	28.54
			12	45.1	271,632	183,876	49.44	37.3	224,242	159,917	34.92	26.1	156,682	127,286	18.25
	MED	7,620	8	74.9	300,731	197,298	121.33	64.7	259,625	177,558	92.70	46.4	185,845	141,902	50.72
			10	55.8	279,961	185,860	71.96	47.3	237,346	164,988	53.25	31.9	159,571	125,605	26.09
			12	42.7	257,421	173,272	44.87	35.4	212,915	150,879	31.86	24.5	146,983	118,746	16.31
	LOW	5,400	8	59.5	239,025	153,877	80.98	51.6	207,198	138,634	62.30	37.3	149,554	111,172	34.49
			10	44.5	223,735	145,607	48.47	38.0	190,577	129,496	36.16	25.9	129,514	99,231	18.06
			12	34.3	206,904	136,406	30.56	28.6	171,907	119,028	21.81	18.9	113,608	89,913	10.37

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW240 / HY 3IDB240	HIGH	8,325	8	88.9	357,226	235,237	164.09	78.1	313,611	214,453	129.12	58.8	235,714	177,296	76.85
			10	66.7	335,159	223,073	98.67	57.8	290,250	201,285	75.87	41.8	209,170	161,105	42.00
			12	51.7	311,564	209,895	62.75	44.1	265,042	186,787	46.84	30.8	184,956	146,213	24.44
	MED	7,620	8	84.1	337,819	221,244	148.90	73.9	296,841	201,738	117.35	55.7	223,491	166,891	69.95
			10	63.2	317,377	210,042	89.74	54.8	275,102	189,581	69.07	39.7	198,739	151,960	38.41
			12	49.0	295,342	197,816	57.10	41.8	251,562	176,160	42.74	28.9	173,405	136,297	21.82
	LOW	5,400	8	66.7	268,165	172,335	99.17	58.9	236,517	157,290	78.66	44.8	179,515	130,555	47.57
			10	50.4	253,255	164,306	60.30	43.9	220,455	148,532	46.73	32.0	160,636	119,601	26.33
			12	39.3	236,946	155,447	38.75	33.7	202,707	138,701	29.17	23.1	138,860	106,470	14.76

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

STANDARD COOLING PERFORMANCE

HY-3IDW300K / HY-3IDB300K

MODEL	SPEED	Air Flow		Air on DBT/WBT 75°F/63°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
HY 3IDW300 / HY 3IDB300	HIGH	10,400	8	85.8	344,924	246,976	75.61	70.5	283,007	215,753	52.80	49.0	196,541	177,574	27.36
			10	62.3	313,167	228,492	42.90	49.5	247,911	194,389	28.21	36.7	183,914	171,995	16.39
			12	46.1	277,635	207,306	25.15	36.5	219,253	177,272	16.43	28.3	169,825	169,825	10.30
	MED	9,525	8	80.9	325,351	231,627	68.21	66.5	267,329	202,443	47.75	45.8	183,684	164,843	24.28
			10	59.0	296,014	214,656	38.89	46.7	234,444	182,597	25.50	34.4	172,068	159,909	14.58
			12	43.6	262,541	194,844	22.74	34.1	205,110	164,930	14.60	26.5	159,041	153,227	9.18
	LOW	6,750	8	63.6	255,568	178,345	44.58	52.6	211,335	156,268	31.60	34.8	139,656	122,309	14.97
			10	46.6	234,192	166,221	25.73	37.2	186,847	141,920	17.12	26.2	131,251	119,265	9.03
			12	34.7	209,185	151,774	15.25	26.1	156,951	123,704	9.12	20.3	121,642	114,851	5.73

MODEL	SPEED	Air Flow		Air on DBT/WBT 80°F/67°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
Hy 3IDW300 /HY 3IDB300	HIGH	10,400	8	112.4	451,627	291,655	121.56	97.3	390,568	262,367	93.13	69.9	280,500	209,700	51.12
			10	84.0	421,748	275,449	72.46	71.4	358,292	244,540	53.81	48.4	242,112	186,628	26.61
			12	64.5	389,010	257,489	45.43	53.5	322,352	224,273	32.31	36.7	220,178	174,605	16.28
	MED	9,525	8	105.9	425,598	273,567	109.50	91.8	368,481	246,173	84.06	66.1	265,305	196,976	46.33
			10	79.2	398,068	258,694	65.45	67.5	338,722	229,838	48.79	45.8	229,528	175,689	24.23
			12	61.1	367,860	242,204	41.21	50.7	305,204	211,075	29.34	34.3	205,963	162,465	14.47
	LOW	6,750	8	82.9	332,920	210,630	71.07	72.1	289,614	189,823	55.01	52.6	210,786	152,627	30.93
			10	62.4	313,365	200,180	42.94	53.4	268,131	178,257	32.33	36.7	183,750	137,097	16.33
			12	48.4	291,418	188,374	27.34	40.4	243,295	164,676	19.68	26.2	157,136	121,580	8.99

MODEL	SPEED	Air Flow		Air on DBT/WBT 84°F/69°F											
				42°F EWT				45°F EWT				50°F EWT			
		cft/min	DT	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP	Gal/min	TC	SC	DP
Hy 3IDW300 / Hy 3IDB300	HIGH	10,400	8	126.1	506,780	326,703	148.91	111.1	445,969	297,750	117.65	84.0	336,917	246,386	70.58
			10	95.1	477,506	310,897	90.19	82.6	414,600	280,569	69.59	60.0	300,545	225,110	38.87
			12	74.0	445,712	293,564	57.72	63.1	380,118	261,362	43.18	43.1	259,021	199,832	21.68
	MED	9,525	8	118.8	477,389	306,327	134.05	104.7	420,549	279,260	106.10	79.4	318,427	231,300	63.89
			10	89.7	450,489	291,859	81.39	78.0	391,623	263,514	62.93	56.8	284,587	211,696	35.28
			12	69.9	421,245	275,991	52.32	59.8	359,754	245,884	39.22	40.9	245,788	188,323	19.76
	LOW	6,750	8	92.8	372,769	235,466	86.73	82.1	329,812	214,940	69.17	62.9	252,107	178,744	42.40
			10	70.5	353,891	225,415	53.22	61.6	309,270	203,960	41.58	45.3	227,181	164,779	23.74
			12	55.3	332,928	214,195	34.57	47.5	285,933	191,333	26.17	32.9	197,587	147,601	13.42

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW072K / HY-3IDB072K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW072 / HY 3IDB072	HIGH	2,497	14	6.3	43,884	37,229	45.01	5.3	37,415	35,089	33.66	3.7	26,009	26,009	17.45
			16	5.1	40,986	35,653	31.42	4.3	34,255	33,152	22.68	2.7	21,824	21,824	10.09
	MED	2,286	14	5.9	41,124	34,702	40.14	5.0	35,069	32,713	30.02	3.5	24,384	24,384	15.57
			16	4.8	38,419	33,256	28.04	4.0	32,113	30,934	20.24	2.5	20,400	20,400	8.96
	LOW	1,620	14	4.5	31,666	26,211	25.33	3.9	27,026	24,725	18.96	2.7	18,744	18,744	9.79
			16	3.7	29,597	25,170	17.72	3.1	24,726	23,418	12.78	1.7	13,482	13,482	4.32

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW072 / HY 3IDB072	HIGH	2,497	14	8.5	59,646	45,473	77.29	6.6	46,118	38,259	48.62	5.0	35,357	35,357	29.98
			16	6.4	51,029	40,008	46.25	5.4	43,355	36,824	34.38	4.0	32,162	32,162	19.97
	MED	2,286	14	8.0	56,397	42,740	70.01	6.2	43,213	35,661	43.36	4.7	33,150	33,150	26.75
			16	6.0	48,304	37,650	41.98	5.1	40,639	34,350	30.67	3.8	30,159	30,159	17.83
	LOW	1,620	14	6.4	44,852	33,258	46.67	4.7	33,272	26,933	27.37	3.6	25,566	25,566	16.92
			16	4.8	38,580	29,428	28.25	3.9	31,316	26,007	19.37	2.9	23,238	23,238	11.26

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW072 / HY 3IDB072	HIGH	2,497	14	12.0	84,450	56,832	142.25	9.9	69,601	49,341	100.42	6.6	46,226	37,603	48.03
			16	9.6	77,367	52,810	96.28	7.6	61,203	44,347	63.11	5.4	43,535	36,231	34.07
	MED	2,286	14	11.3	79,767	53,406	128.63	9.4	65,847	46,413	91.13	6.2	43,313	35,058	42.82
			16	9.1	73,177	49,688	87.32	7.2	57,957	41,758	57.31	5.1	40,810	33,810	30.40
	LOW	1,620	14	9.0	63,221	41,553	85.49	7.5	52,386	36,168	60.71	4.8	33,347	26,500	27.01
			16	7.2	58,186	38,772	58.17	5.8	46,376	32,723	38.68	3.9	31,466	25,639	19.22

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW090K / HY-3IDB090K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW090 / HY 3IDB090	HIGH	3,121	14	8.5	59,598	49,744	24.07	7.2	50,715	46,817	17.94	5.0	34,805	34,805	9.09
			16	6.9	55,426	47,550	16.69	5.8	46,088	44,059	11.94	3.5	27,833	27,833	4.83
	MED	2,857	14	7.9	55,663	46,242	21.34	6.8	47,370	43,525	15.91	4.6	32,451	32,451	8.03
			16	6.5	51,755	44,214	14.79	5.4	43,007	40,956	10.57	2.6	20,788	20,788	2.89
	LOW	2,025	14	6.0	42,289	34,562	13.16	5.1	35,945	32,507	9.78	3.4	24,161	24,161	4.78
			16	4.9	39,173	33,011	9.05	4.0	32,323	30,436	6.39	2.2	17,543	17,543	2.14

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW090 / HY 3IDB090	HIGH	3,121	14	11.7	82,121	61,486	42.39	8.9	62,718	51,181	26.07	6.8	47,964	47,964	16.00
			16	8.7	69,468	53,647	24.85	7.3	58,804	49,233	18.35	5.4	43,311	43,311	10.53
	MED	2,857	14	11.0	77,359	57,607	38.12	8.4	58,579	47,578	23.11	6.4	44,812	44,812	14.19
			16	8.2	65,489	50,306	22.39	6.9	54,927	45,791	16.27	5.1	40,429	40,429	9.33
	LOW	2,025	14	8.6	60,655	44,299	24.79	6.3	44,529	35,569	14.26	4.9	34,045	34,045	8.74
			16	6.4	51,391	38,740	14.61	5.2	41,701	34,261	10.01	3.8	30,440	30,440	5.66

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW090 / HY 3IDB090	HIGH	3,121	14	16.6	116,931	77,375	78.82	13.7	96,177	66,983	55.29	9.0	62,931	50,389	25.80
			16	13.3	106,764	71,714	52.86	10.5	84,139	59,992	34.48	7.4	59,158	48,560	18.24
	MED	2,857	14	15.7	110,060	72,494	70.83	12.9	90,641	62,798	49.78	8.4	58,799	46,861	22.91
			16	12.5	100,600	67,253	47.59	9.9	79,429	56,334	31.17	6.9	55,272	45,186	16.18
	LOW	2,025	14	12.2	86,032	55,758	45.87	10.1	71,258	48,444	32.60	6.4	44,717	35,066	14.14
			16	9.8	78,997	51,925	31.10	7.8	62,526	43,530	20.38	5.3	42,038	33,879	9.99

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW120K / HY-3IDB120K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW120 / HY 3IDB120	HIGH	4,162	14	11.4	80,241	66,941	23.96	9.7	68,270	62,988	17.86	6.7	46,807	46,807	9.03
			16	9.3	74,598	63,965	16.60	7.7	62,004	59,242	11.87	4.7	37,322	37,322	4.78
	MED	3,810	14	10.7	74,963	62,237	21.25	9.1	63,786	58,568	15.84	6.2	43,655	43,655	7.99
			16	8.7	69,678	59,489	14.72	7.2	57,877	55,081	10.51	3.5	27,748	27,748	2.83
	LOW	2,700	14	8.1	56,971	46,516	13.11	6.9	48,427	43,748	9.74	4.6	32,526	32,526	4.76
			16	6.6	52,768	44,424	9.02	5.4	43,527	40,945	6.36	2.9	23,477	23,477	2.11

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW120 /HY 3IDB120	HIGH	4,162	14	15.5	108,925	81,638	41.07	12.0	84,454	68,890	25.96	9.2	64,571	64,571	15.93
			16	11.5	91,842	71,035	23.96	9.9	79,163	66,245	18.26	7.3	58,270	58,270	10.47
	MED	3,810	14	14.6	102,777	76,588	37.09	11.3	78,923	64,059	23.06	8.6	60,346	60,346	14.13
			16	10.8	86,672	66,669	21.63	9.2	73,965	61,626	16.20	6.8	54,411	54,411	9.28
	LOW	2,700	14	11.5	80,829	59,039	24.23	8.6	60,007	47,885	14.22	6.5	45,872	45,872	8.71
			16	8.5	68,239	51,480	14.20	7.0	56,182	46,116	9.98	5.1	40,996	40,996	5.64

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW120 / HY 3IDB120	HIGH	4,162	14	22.1	155,475	102,931	76.76	18.2	127,600	88,948	53.62	12.1	84,770	67,845	25.73
			16	17.7	141,728	95,270	51.35	13.9	111,346	79,496	33.30	10.0	79,652	65,354	18.16
	MED	3,810	14	20.8	146,488	96,519	69.10	17.1	120,404	83,476	48.40	11.3	79,199	63,091	22.82
			16	16.6	133,673	89,417	46.29	13.1	105,177	74,685	30.11	9.3	74,441	60,823	16.12
	LOW	2,700	14	16.3	114,864	74,428	44.99	13.5	94,975	64,573	31.88	8.6	60,255	47,209	14.09
			16	13.1	105,318	69,227	30.43	10.4	83,144	57,912	19.85	7.1	56,645	45,611	9.96

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW150K / HY-3IDB150K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW150 / HY 3IDB150	HIGH	5,202	14	14.3	100,748	84,051	35.78	12.2	85,839	79,158	26.73	8.5	59,376	59,376	13.74
			16	11.7	93,920	80,465	24.91	9.8	78,343	74,714	17.92	6.1	49,046	49,046	7.73
	MED	4,762	14	13.4	94,240	78,210	31.84	11.4	80,304	73,666	23.76	7.9	55,545	55,545	12.21
			16	11.0	87,890	74,931	22.18	9.1	73,292	69,577	15.93	5.7	45,664	45,664	6.81
	LOW	3,375	14	10.2	71,927	58,616	19.76	8.8	61,371	55,262	14.80	6.0	42,267	42,267	7.55
			16	8.4	67,083	56,258	13.77	7.0	55,888	52,235	9.89	3.4	27,352	27,352	2.76

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW150 / HY 3IDB150	HIGH	5,202	14	19.2	134,739	101,183	59.75	15.1	105,974	86,467	38.76	11.6	81,164	81,164	23.82
			16	14.3	114,284	88,484	35.23	12.4	99,490	83,231	27.31	9.2	73,600	73,600	15.80
	MED	4,762	14	18.1	127,310	95,033	54.06	14.1	99,086	80,434	34.43	10.8	75,947	75,947	21.19
			16	13.4	107,720	82,944	31.73	11.6	93,068	77,492	24.28	8.6	68,875	68,875	14.05
	LOW	3,375	14	14.3	100,822	73,673	35.77	10.8	75,616	60,266	21.37	8.3	58,099	58,099	13.22
			16	10.7	85,706	64,600	21.21	8.9	71,102	58,217	15.10	6.6	52,596	52,596	8.74

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW150 / HY 3IDB150	HIGH	5,202	14	27.3	192,117	127,430	111.30	22.5	157,671	110,136	78.03	15.2	106,286	85,116	38.32
			16	21.9	175,258	118,016	74.81	17.2	137,484	98,363	48.29	12.5	100,007	82,056	27.12
	MED	4,762	14	25.8	181,318	119,661	100.61	21.2	148,886	103,423	70.39	14.2	99,376	79,191	34.04
			16	20.6	165,425	110,838	67.41	16.2	130,108	92,555	43.80	11.7	93,560	76,424	24.11
	LOW	3,375	14	20.3	142,901	92,667	66.12	16.8	118,115	80,381	46.81	10.8	75,848	59,378	21.13
			16	16.3	131,105	86,236	44.76	12.9	103,664	72,238	29.29	8.9	71,533	57,500	15.02

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW180K / HY-3IDB180K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW180 / HY 3IDB180	HIGH	6,243	14	17.2	120,485	99,911	58.81	14.7	103,296	94,539	44.38	10.4	73,182	73,182	23.80
			16	14.2	113,512	96,484	41.71	11.9	95,701	90,385	30.57	7.9	63,182	63,182	14.48
	MED	5,715	14	16.1	112,720	92,979	52.32	13.8	96,677	88,003	39.49	9.8	68,543	68,543	21.20
			16	13.2	106,240	89,859	37.12	11.2	89,608	84,216	27.22	7.4	59,134	59,134	12.88
	LOW	4,050	14	12.6	88,293	71,266	34.02	10.6	74,108	66,145	24.72	7.5	52,620	52,620	13.31
			16	10.1	81,411	67,647	23.21	8.6	68,759	63,489	17.08	5.6	44,995	44,995	7.96

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW180 / HY 3IDB180	HIGH	6,243	14	24.0	168,636	125,634	106.36	18.0	126,246	102,464	63.25	13.9	97,662	97,662	39.56
			16	18.4	147,163	112,466	65.93	14.9	119,547	99,349	45.23	11.2	89,948	89,948	26.97
	MED	5,715	14	22.6	158,973	117,773	95.64	16.8	118,060	95,329	56.16	13.0	91,421	91,421	35.21
			16	17.3	139,035	105,638	59.63	14.0	111,875	92,520	40.24	10.5	84,243	84,243	24.03
	LOW	4,050	14	17.9	125,490	91,051	63.02	13.4	93,795	73,986	37.48	10.0	70,136	70,136	22.07
			16	13.8	110,339	82,068	39.68	10.7	85,741	69,657	25.20	8.1	64,718	64,718	15.11

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW180 / HY 3IDB180	HIGH	6,243	14	33.4	235,050	155,410	190.40	27.8	195,392	135,701	136.10	18.0	126,336	100,690	62.32
			16	27.1	217,416	145,610	130.84	21.8	174,545	123,670	88.13	15.0	119,786	97,731	44.66
	MED	5,715	14	31.5	221,460	145,728	171.40	26.3	184,401	127,366	122.95	16.9	118,151	93,701	55.37
			16	25.5	205,068	136,666	117.96	20.6	164,979	116,239	79.82	14.0	112,099	91,041	39.73
	LOW	4,050	14	24.7	173,867	112,491	112.05	20.7	145,586	98,588	81.08	12.9	90,351	70,356	34.52
			16	20.1	161,753	105,908	77.66	16.3	130,827	90,342	52.91	10.7	85,930	68,619	24.89

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW216K / HY-3IDB216K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW216 / HY 3IDB216	HIGH	7,492	14	19.5	136,525	116,092	23.29	16.5	115,609	108,806	17.20	11.2	78,630	78,630	8.58
			16	15.7	126,225	110,218	15.98	13.0	104,457	101,595	11.34	8.0	63,820	63,820	4.68
	MED	6,858	14	18.2	128,005	108,237	20.79	15.5	108,455	101,494	15.36	10.5	73,808	73,808	7.68
			16	14.8	118,414	102,861	14.28	12.2	98,029	94,866	10.14	7.5	59,746	59,746	4.17
	LOW	4,860	14	14.1	98,700	81,774	13.16	11.9	83,774	76,796	9.75	8.1	57,014	57,014	4.87
			16	11.4	91,399	77,932	9.04	9.4	75,702	71,968	6.43	5.6	44,987	44,987	2.53

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW216 / HY 3IDB216	HIGH	7,492	14	24.3	170,278	131,004	34.38	20.5	143,994	119,696	25.32	15.6	109,235	109,235	15.31
			16	19.3	154,890	122,028	22.93	16.7	134,147	114,304	17.60	12.2	97,945	97,945	9.95
	MED	6,858	14	23.0	161,609	123,516	31.35	19.2	134,980	111,583	22.59	14.6	102,499	102,499	13.68
			16	18.1	145,216	113,827	20.46	15.7	125,834	106,673	15.73	11.5	91,995	91,995	8.92
	LOW	4,860	14	18.6	130,352	97,244	21.47	14.8	104,008	84,253	14.28	11.3	79,243	79,243	8.70
			16	14.0	111,928	86,133	12.93	12.1	97,178	80,853	9.98	8.9	71,132	71,132	5.67

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW216 / HY 3IDB216	HIGH	7,492	14	35.4	248,600	167,822	66.90	28.6	200,601	143,202	45.40	20.6	144,661	117,894	25.11
			16	27.8	222,873	153,122	43.49	21.3	170,712	125,176	26.93	16.9	135,104	112,736	17.54
	MED	6,858	14	33.5	235,437	158,055	60.66	27.1	190,418	135,083	41.41	19.4	135,597	109,926	22.40
			16	26.4	211,530	144,493	39.66	20.3	162,344	118,306	24.64	15.8	126,734	105,250	15.67
	LOW	4,860	14	26.9	188,699	124,131	41.09	21.9	153,518	106,444	28.28	14.9	104,470	83,067	14.16
			16	21.2	170,390	113,992	27.03	16.5	131,966	93,977	17.11	12.2	97,901	79,886	9.95

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW240K / HY-3IDB240K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW240 / HY 3IDB240	HIGH	8,325	14	20.6	144,804	124,146	27.62	17.5	122,779	116,468	20.44	12.0	84,002	84,002	10.31
			16	16.7	134,195	118,000	19.03	13.9	111,340	111,340	13.56	8.7	69,226	69,226	5.78
	MED	7,620	14	19.4	135,968	115,895	24.72	16.4	115,351	108,780	18.31	11.3	78,986	78,986	9.25
			16	15.7	126,082	110,269	17.05	13.1	104,656	104,656	12.16	8.1	65,006	65,006	5.17
	LOW	5,400	14	15.0	105,460	87,998	15.79	12.8	89,660	82,739	11.75	8.8	61,508	61,508	5.95
			16	12.2	97,959	84,007	10.93	10.2	81,410	77,769	7.81	6.2	49,951	49,951	3.25

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
3IDW240 / 3IDB240	HIGH	8,325	14	25.8	180,870	140,286	40.88	21.8	152,602	127,901	29.99	16.6	115,963	115,963	18.19
			16	20.5	164,238	130,361	27.15	17.8	142,429	122,228	20.92	13.0	104,381	104,381	11.90
	MED	7,620	14	24.5	171,873	132,413	37.36	20.4	143,260	119,384	26.82	15.6	108,971	108,971	16.30
			16	19.2	154,213	121,761	24.30	16.7	133,784	114,205	18.73	12.3	98,191	98,191	10.70
	LOW	5,400	14	19.9	139,386	104,741	25.84	15.8	111,068	90,619	17.14	12.1	84,778	84,778	10.48
			16	14.9	119,606	92,631	15.53	13.0	103,968	87,030	12.02	9.6	76,468	76,468	6.88

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW240 / HY 3IDB240	HIGH	8,325	14	37.4	262,295	178,562	78.64	30.3	212,314	152,826	53.65	21.9	153,219	125,845	29.71
			16	29.4	236,037	163,399	51.46	22.7	181,934	134,296	32.21	17.9	143,293	120,378	20.80
	MED	7,620	14	35.4	248,857	168,432	71.63	28.8	201,786	144,322	49.05	20.5	143,828	117,496	26.57
			16	28.0	224,299	154,360	47.02	21.6	173,209	127,058	29.53	16.8	134,610	112,529	18.63
	LOW	5,400	14	28.5	200,533	132,891	48.92	23.3	163,732	114,362	33.95	15.9	111,487	89,266	16.98
			16	22.7	181,909	122,498	32.54	17.7	141,526	101,399	20.70	13.1	104,623	85,874	11.96

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

DISTRICT COOLING PERFORMANCE

HY-3IDW300K / HY-3IDB300K

MODEL	SPEED	Air Flow		Air on DBT/WBT 71 °F/60°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW300 / HY 3IDB300	HIGH	10,400	14	29.2	204,625	170,918	24.88	24.8	174,091	160,752	18.52	17.2	120,134	120,134	9.48
			16	23.7	190,392	163,311	17.24	19.8	158,631	151,431	12.38	12.5	99,634	99,634	5.37
	MED	9,525	14	27.3	191,611	159,173	22.16	23.3	163,125	149,782	16.51	16.1	112,671	112,671	8.46
			16	22.3	178,481	152,291	15.40	18.6	148,795	141,305	11.07	11.7	93,306	93,306	4.78
	LOW	6,750	14	20.9	146,743	119,525	13.83	17.9	125,231	112,669	10.36	12.4	86,637	86,637	5.33
			16	17.1	136,967	114,745	9.65	14.3	114,315	106,637	6.95	8.8	70,619	70,619	2.93

MODEL	SPEED	Air Flow		Air on DBT/WBT 75 °F/63°F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW300 / HY 3IDB300	HIGH	10,400	14	37.3	261,643	197,560	38.34	30.7	215,291	175,921	26.93	23.5	164,568	164,568	16.50
			16	28.9	231,997	179,874	24.43	25.2	201,801	169,049	18.93	18.6	148,959	148,959	10.90
	MED	9,525	14	35.3	248,033	186,074	34.90	28.7	201,552	163,801	23.97	22.0	154,238	154,238	14.72
			16	27.1	217,249	167,601	21.77	23.6	189,069	157,582	16.87	17.5	139,703	139,703	9.74
	LOW	6,750	14	28.2	198,343	145,399	23.47	22.0	154,281	122,928	14.97	16.9	118,520	118,520	9.25
			16	20.8	166,976	126,475	13.69	18.1	145,066	118,709	10.57	13.4	107,526	107,526	6.14

MODEL	SPEED	Air Flow		Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT				45 °F EWT				50 °F EWT			
		cft/min	ΔT	GPM	TC	SC	DP	GPM	TC	SC	DP	GPM	TC	SC	DP
HY 3IDW300 / HY 3IDB300	HIGH	10,400	14	53.6	376,817	250,731	72.67	43.7	306,736	215,304	50.22	30.8	216,011	173,251	26.65
			16	42.5	341,031	230,660	48.16	33.0	264,356	190,386	30.45	25.4	202,918	166,718	18.80
	MED	9,525	14	50.8	356,635	236,019	66.01	41.4	290,509	202,701	45.55	28.9	202,209	161,343	23.72
			16	40.2	322,886	217,208	43.64	31.4	251,170	179,767	27.84	23.8	190,113	155,453	16.76
	LOW	6,750	14	40.3	283,497	184,085	44.04	33.1	232,707	158,802	30.82	22.1	154,715	121,130	14.79
			16	32.2	258,475	170,421	29.50	25.3	202,646	141,790	19.06	18.2	145,894	117,240	10.51

Legends:

TC: Total Cooling Capacity (BTU) gross

SC: Total Cooling Capacity (BTU) gross

Gal/min: Water Flow Rate

DP: Water differential presssure drop (kPa)

FAN PERFORMANCE DATA

072K - 180K

HY 3IDW072/HY 3IDB072

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
1,600	626	0.19	727	0.25	823	0.32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1,800	629	0.22	723	0.29	812	0.35	898	0.43	..	..	..	..	..	..	..	..	..	..	..	..
2,000	635	0.26	725	0.33	809	0.40	889	0.47	967	0.56	1043	0.65	..	..	..	..	..	..	..	..
2,286	647	0.33	733	0.40	811	0.47	886	0.55	958	0.63	1027	0.72	..	..	..	..	..	..	..	..
2,400	653	0.35	737	0.43	814	0.50	887	0.58	957	0.67	1025	0.75	..	..	..	..	..	..	..	..
2,500	659	0.38	741	0.46	817	0.54	889	0.62	957	0.70	1023	0.79	..	..	..	..	..	..	..	..

HY 3IDW090/HY 3IDB090

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2,000	524	0.23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2,200	522	0.25	607	0.34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2,400	523	0.28	604	0.37	681	0.47	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2,600	525	0.31	603	0.4	676	0.50	743	0.61	..	..	..	..	..	..	..	..	..	..	..	..
2,857	530	0.35	605	0.45	674	0.55	740	0.66	805	0.78	..	..	..	..	..	..	..	..	..	..
3,000	533	0.38	607	0.48	674	0.58	739	0.69	801	0.81	858	0.94	..	..	..	..	..	..	..	..
3,200	538	0.42	610	0.52	676	0.63	738	0.74	798	0.86	857	0.99	..	..	..	..	..	..	..	..

HY 3IDW120/HY 3IDB120

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
2,600	525	0.31	603	0.40	676	0.50	743	0.61	..	..	..	..	..	..	..	..	..	..	..	..
2,700	527	0.33	603	0.42	675	0.52	743	0.63	..	..	..	..	..	..	..	..	..	..	..	..
2,800	529	0.34	604	0.44	674	0.54	741	0.65	..	..	..	..	..	..	..	..	..	..	..	..
3,000	533	0.38	607	0.48	674	0.58	739	0.69	801	0.81	858	0.94	..	..	..	..	..	..	..	..
3,200	538	0.42	610	0.52	676	0.63	738	0.74	798	0.86	857	0.99	..	..	..	..	..	..	..	..
3,400	544	0.47	614	0.57	679	0.68	740	0.79	798	0.91	854	1.04	913	1.17	..	..	..	..	..	..
3,600	551	0.52	619	0.62	682	0.73	742	0.85	798	0.97	853	1.10	909	1.23	..	..	..	..	..	..
3,800	558	0.57	625	0.68	687	0.80	745	0.92	800	1.05	853	1.18	908	1.31	..	..	..	..	..	..
4,000	565	0.63	631	0.74	692	0.86	749	0.99	803	1.11	855	1.25	908	1.38	..	..	..	..	..	..
4,200	572	0.69	637	0.81	697	0.93	753	1.06	806	1.19	857	1.33	909	1.47	..	..	..	..	..	..

HY 3IDW150/HY 3IDB150

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
3400	544	0.47	614	0.57	679	0.68	740	0.79	798	0.91	854	1.04	908	1.18	962	1.33	..	..	..	..
3600	551	0.52	619	0.62	682	0.73	742	0.85	798	0.97	853	1.10	906	1.24	957	1.39	..	..	..	..
3800	557	0.57	625	0.68	687	0.80	745	0.92	800	1.04	853	1.17	904	1.31	954	1.46	1004	1.61	..	..
4000	565	0.63	631	0.74	692	0.86	749	0.99	803	1.11	855	1.25	905	1.39	953	1.53	1001	1.67	..	..
4200	572	0.69	637	0.81	697	0.93	753	1.06	806	1.19	857	1.33	906	1.47	954	1.62	1002	1.77	..	..
4400	581	0.76	644	0.88	703	1.01	758	1.14	810	1.28	860	1.42	908	1.56	955	1.71	1002	1.86	..	..
4600	590	0.84	651	0.96	709	1.09	764	1.23	815	1.37	864	1.51	911	1.66	957	1.81	1003	1.96	..	..
4762	597	0.90	658	1.03	715	1.16	768	1.30	819	1.44	868	1.59	914	1.74	959	1.89	1004	2.04	..	..
5000	608	1.00	667	1.14	723	1.27	776	1.42	826	1.56	873	1.71	919	1.87	963	2.02	1007	2.17	..	..
5200	619	1.09	676	1.23	730	1.37	782	1.52	832	1.67	879	1.82	924	1.98	967	2.14	1010	2.30	..	..

HY 3IDW180/HY 3IDB180

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
4,000	565	0.63	631	0.74	692	0.86	749	0.99	803	1.11	855	1.25	905	1.39	953	1.53	..	..	..	..
4,200	572	0.69	637	0.81	697	0.93	753	1.06	806	1.19	857	1.33	906	1.47	954	1.62	..	..	..	..
4,400	581	0.76	644	0.88	703	1.01	758	1.14	810	1.28	860	1.42	908	1.56	955	1.71	1,002	1.86	..	..
4,600	590	0.84	651	0.96	709	1.09	764	1.23	815	1.37	864	1.51	911	1.66	957	1.81	1,003	1.96	..	..
4,800	599	0.92	659	1.05	716	1.18	769	1.32	820	1.46	869	1.61	915	1.76	960	1.91	1,005	2.06	..	..
5,000	608	1.00	667	1.14	723	1.27	776	1.42	826	1.56	873	1.71	919	1.87	963	2.02	1,007	2.17	..	..
5,200	619	1.09	676	1.23	730	1.37	782	1.52	832	1.67	879	1.82	924	1.98	967	2.14	1,010	2.30	1,053	2.46
5,400	629	1.19	685	1.33	738	1.48	789	1.63	838	1.79	884	1.94	929	2.10	972	2.27	1,015	2.44	1,058	2.61
5,715	647	1.36	700	1.51	751	1.66	801	1.82	848	1.98	894	2.14	938	2.31	980	2.48	1,022	2.65	1,064	2.82
5,800	651	1.41	704	1.56	755	1.71	804	1.87	851	2.03	896	2.20	940	2.37	982	2.54	1,024	2.71	1,066	2.88
6,000	663	1.52	714	1.68	764	1.84	812	2.00	858	2.17	903	2.34	946	2.51	988	2.69	1,030	2.87	1,072	3.05
6,200	675	1.65	725	1.81	773	1.97	820	2.14	866	2.31	910	2.48	952	2.66	993	2.84	1,034	3.02	1,075	3.2

- Data includes losses for filters, unit casing & wet coil
- Shaded region indicates alternate drive requirement
- Bold value in RPM indicates Blower speed with factory settings

FAN PERFORMANCE DATA

216K - 300K

HY-3IDW216/HY-3IDB216

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
4,800	469	0.71	525	0.85	577	1.01	626	1.18	675	1.36	722	1.56	769	1.78	..	..	..	..	..	..
4,900	472	0.73	527	0.88	578	1.04	627	1.21	675	1.39	722	1.59	768	1.81	..	..	..	..	..	..
5,000	474	0.76	529	0.91	580	1.07	628	1.24	675	1.42	723	1.62	769	1.84	812	2.07	..	..	..	..
5,200	480	0.82	533	0.97	583	1.13	631	1.31	677	1.49	721	1.69	765	1.90	809	2.13	..	..	..	..
5,400	496	0.91	548	1.07	597	1.24	643	1.41	687	1.60	731	1.80	774	2.01	816	2.24	857	2.48	..	..
5,600	502	0.98	553	1.14	1	1.31	646	1.49	690	1.68	732	1.88	775	2.09	815	2.32	855	2.56	895	2.81
5,800	518	1.08	568	1.25	614	1.42	658	1.61	701	1.80	742	2.00	783	2.22	822	2.45	862	2.69	901	2.94
6,000	524	1.15	573	1.33	619	1.51	662	1.69	704	1.89	744	2.09	784	2.31	823	2.53	861	2.77	899	3.02
6,200	540	1.27	587	1.45	632	1.63	674	1.82	715	2.02	755	2.23	793	2.45	831	2.68	869	2.92	906	3.17
6,400	546	1.35	593	1.54	637	1.72	679	1.92	719	2.12	758	2.33	796	2.55	833	2.78	870	3.02	905	3.27
6,600	552	1.43	598	1.63	642	1.82	683	2.02	723	2.22	761	2.44	798	2.66	835	2.89	871	3.13	906	3.38
6,858	560	1.55	606	1.75	649	1.95	689	2.16	728	2.37	766	2.58	802	2.80	838	3.04	873	3.28	907	3.53
7,000	569	1.64	614	1.84	657	2.05	697	2.26	735	2.47	772	2.69	808	2.91	843	3.15	878	3.39	911	3.64
7,200	576	1.74	620	1.95	662	2.16	702	2.37	739	2.59	776	2.81	812	3.04	846	3.27	880	3.52	913	3.77
7,400	587	1.86	631	2.08	672	2.30	711	2.51	748	2.74	784	2.96	819	3.19	853	3.43	886	3.68	919	3.93
7,500	591	1.91	634	2.14	674	2.36	713	2.58	750	2.8	786	3.03	821	3.26	855	3.50	888	3.75	920	4

HY-3IDW240/HY-3IDB240

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
5,400	553	0.70	633	0.90	709	1.11	781	1.35	851	1.62	920	1.92	990	2.25	1059	2.63	..	..	..	..
5,600	555	0.74	634	0.94	708	1.15	778	1.39	847	1.65	914	1.95	981	2.27	1048	2.63	..	..	..	..
5,800	558	0.78	635	0.98	708	1.20	777	1.44	844	1.70	909	1.98	974	2.30	1038	2.64	..	..	..	..
6,000	560	0.82	637	1.02	708	1.24	776	1.48	841	1.74	905	2.02	968	2.33	1030	2.67	1092	3.01	..	..
6,200	563	0.86	639	1.07	709	1.29	775	1.53	839	1.79	902	2.07	963	2.38	1024	2.71	1085	3.04	..	..
6,400	565	0.91	641	1.12	710	1.35	775	1.59	838	1.85	899	2.12	959	2.43	1018	2.75	1077	3.07	1136	3.39
6,600	568	0.96	643	1.17	711	1.40	776	1.64	838	1.90	898	2.18	956	2.48	1014	2.8	1072	3.12	1130	3.44
6,800	571	1.01	645	1.23	713	1.46	777	1.70	838	1.96	896	2.24	954	2.54	1010	2.86	1066	3.18	1123	3.5
7,000	575	1.06	648	1.28	715	1.52	778	1.77	838	2.03	896	2.31	952	2.6	1007	2.92	1062	3.24	1117	3.56
7,200	578	1.11	650	1.34	717	1.58	779	1.83	838	2.1	895	2.38	951	2.67	1005	2.98	1059	3.29	1113	3.6
7,400	582	1.17	653	1.40	719	1.64	780	1.90	839	2.17	895	2.45	950	2.74	1003	3.06	1056	3.38	1109	3.7
7,500	583	1.20	654	1.43	720	1.68	781	1.93	840	2.2	896	2.48	950	2.78	1003	3.09	1056	3.4	1109	3.71
7,620	586	1.23	656	1.47	721	1.72	782	1.98	840	2.25	896	2.53	950	2.83	1002	3.14	1054	3.45	1105	3.75
7,800	589	1.29	659	1.53	724	1.78	784	2.04	841	2.32	896	2.6	950	2.9	1001	3.21	1052	3.52	1103	3.83
8,000	593	1.35	662	1.60	726	1.85	786	2.12	843	2.4	897	2.68	950	2.98	1001	3.3	1052	3.62	1103	3.94
8,200	597	1.42	666	1.67	729	1.93	788	2.2	845	2.48	899	2.77	951	3.07	1001	3.39	1051	3.71	1101	4.03
8,400	601	1.49	669	1.74	732	2.01	791	2.28	847	2.56	900	2.86	951	3.16	1001	3.48	1051	3.8	1100	4.1

HY-3IDW300/HY-3IDB300

Air flow	External static pressure (inch of WG)																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
(cfm)	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW	RPM	KW
6,600	568	0.96	643	1.17	711	1.40	776	1.64	838	1.90	898	2.18	956	2.48	1,014	2.80	..	..	..	..
6,800	571	1.01	645	1.23	713	1.46	777	1.70	838	1.96	896	2.24	954	2.54	1,010	2.86	..	..	..	..
7,000	575	1.06	648	1.28	715	1.52	778	1.77	838	2.03	896	2.31	952	2.60	1,007	2.92	..	..	..	..
7,200	578	1.11	650	1.34	717	1.58	779	1.83	838	2.10	895	2.38	951	2.67	1,005	2.98	1,059	3.29	..	..
7,400	582	1.17	653	1.40	719	1.64	780	1.90	839	2.17	895	2.45	950	2.74	1,003	3.06	1,056	3.38	..	..
7,600	585	1.23	656	1.46	721	1.71	782	1.97	840	2.24	896	2.52	950	2.82	1,002	3.13	1,054	3.44	..	..
7,800	589	1.29	659	1.53	724	1.78	784	2.04	841	2.32	896	2.60	950	2.90	1,001	3.21	1,052	3.52	1,103	3.83
8,000	593	1.35	662	1.60	726	1.85	786	2.12	843	2.40	897	2.68	950	2.98	1,001	3.30	1,052	3.62	1,103	3.94
8,200	597	1.42	666	1.67	729	1.93	788	2.20	845	2.48	899	2.77	951	3.07	1,001	3.39	1,051	3.71	1,101	4.03
8,400	601	1.49	669	1.74	732	2.01	791	2.28	847	2.56	900	2.86	951	3.16	1,001	3.48	1,051	3.80	1,101	4.12
8,600	605	1.56	673	1.82	735	2.09	793	2.37	849	2.65	902	2.95	953	3.26	1,002	3.58	1,051	3.9	1,100	4.22
8,800	610	1.64	676	1.90	738	2.17	796	2.45	851	2.74	903	3.04	954	3.35	1,003	3.68	1,052	4.01	1,101	4.34
9,000	614	1.72	680	1.98	740	2.26	799	2.55	853	2.84	905	3.14	955	3.46	1,004	3.78	1,053	4.1	1,102	4.42
9,200	619	1.80	684	2.07	745	2.35	802	2.64	856	2.94	907	3.24	957	3.56	1,005	3.89	1,053	4.22	1,101	4.55
9,525	627	1.93	690	2.21	750	2.50	807	2.80	860	3.10	911	3.42	960	3.74	1,007	4.07	1,054	4.4	1,101	4.73
9,600	629	1.97	692	2.25	752	2.54	808	2.84	861	3.14	912	3.46	961	3.78	1,008	4.11	1,055	4.44	1,102	4.77
9,800	634	2.06	696	2.34	755	2.64	811	2.94	864	3.25	914	3.57	963	3.9	1,010	4.23	1,057	4.56	1,104	4.89
10,000	639	2.15	701	2.44	759	2.74	814	3.05	867	3.36	917	3.68	965	4.01	1,012	4.35	1,059	4.69	1,106	5.03
10,200	644	2.25	705	2.54	763	2.84	818	3.16	870	3.48	920	3.8	968	4.14	1,014	4.48	1,060	4.82	1,106	5.16
10,400	650	2.35	710	2.65	767	2.95	821	3.27	873	3.59	923	3.92	970	4.26	1,016	4.61	1,062	4.96	1,108	5.31

- Data includes losses for filters, unit casing & wet coil
- Shaded region indicates alternate drive requirement
- Bold value in RPM indicates Blower speed with factory settings

ELECTRICAL DATA

Power Supply: 380-415V/3Ph/50Hz

MODEL	OPERATING VOLTAGE		BLOWER MOTOR		HEATER (OPTION)		MCA (COOL)	MCA (HEAT)	MOCP (COOL)	MOCP (HEAT)
	MIN	MAX	HP	FLA	KW	AMPS	AMPS	AMPS	AMPS	AMPS
HY 3IDW072 HY 3IDB072	342	456	1 1/3	2.7	15	22.8	10	32	15	35
HY 3IDW090 HY 3IDB090	342	456	1 1/3	2.7	15	22.8	10	32	15	35
HY 3IDW120 HY 3IDB120	342	456	2.6	4.8	20	30.4	10	43	15	50
HY 3IDW150 HY 3IDB150	342	456	2.6	4.8	20	30.4	10	43	15	50
HY 3IDW180 HY 3IDB180	342	456	5	7.3	25	38	10	56	20	65
HY 3IDW216 HY 3IDB216	342	456	5	7.3	25	38	10	56	20	65
HY 3IDW240 HY 3IDB240	342	456	5	7.3	30	45.6	10	65	10	70
HY 3IDW300 HY 3IDB300	342	456	7 1/2	10.5	30	45.6	14	68	25	80

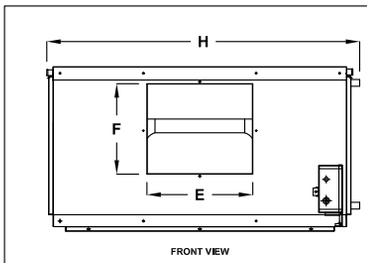
Power Supply: 380-400V/3Ph/60Hz

MODEL	OPERATING VOLTAGE		BLOWER MOTOR		HEATER (OPTION)		MCA (COOL)	MCA (HEAT)	MOCP (COOL)	MOCP (HEAT)
	MIN	MAX	HP	FLA	KW	AMPS	AMPS	AMPS	AMPS	AMPS
HY 3IDW072 HY 3IDB072	342	440	1 1/2	2.7	15	22.8	10	32	15	35
HY 3IDW090 HY 3IDB090	342	440	3.0	4.9	15	22.8	10	32	15	35
HY 3IDW120 HY 3IDB120	342	440	3.0	4.9	20	30.4	10	43	15	50
HY 3IDW150 HY 3IDB150	342	440	3.0	4.9	20	30.4	10	43	15	50
HY 3IDW180 HY 3IDB180	342	440	5.0	8.0	25	38	10	56	20	65
HY 3IDW216 HY 3IDB216	342	440	5.0	8.0	25	38	10	56	20	65
HY 3IDW240 HY 3IDB240	342	440	5.0	8.0	30	45.6	10	65	20	70
HY 3IDW300 HY 3IDB300	342	440	5.0	8.0	30	45.6	10	68	20	80

Legends:
RLA : Rated Load Ampere.
FLA: Full Load Amperes

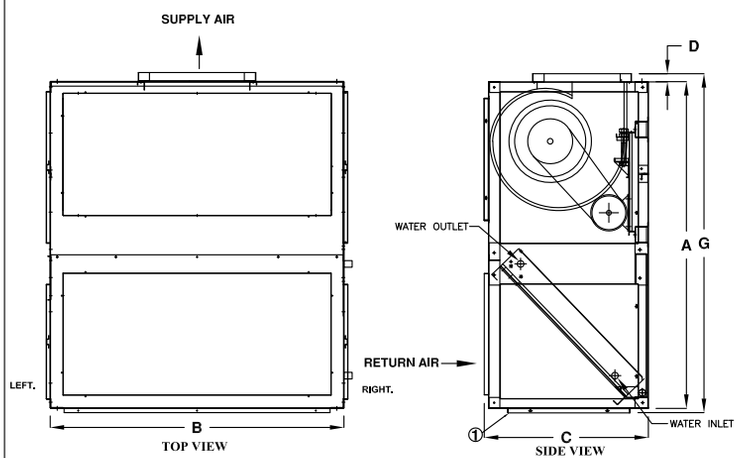
GENERAL ARRANGEMENT DRAWINGS

Single Skin



UNIT	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
HY 3IDW072	1342	1071	605	42	445	388	1404	1127
HY 3IDW090	1469	1321	762	43	518	451	1528	1414
HY 3IDW120								
HY 3IDW150								

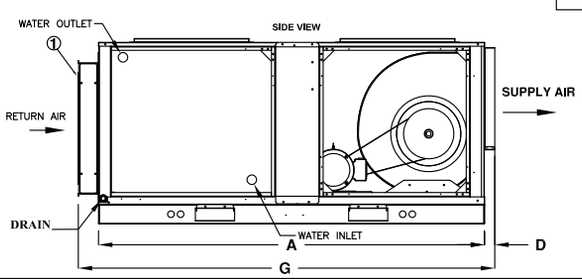
① R.A OPENING W x H	
HY 3IDW072	954 x 509
HY 3IDW090	1203 x 549
HY 3IDW0120	
HY 3IDW0150	

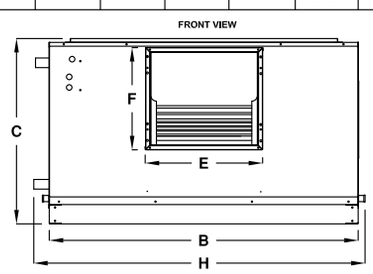


VERTICAL POSITION SHOWN
HORZONTAL ALSO APPLICABLE

HORIZONTAL MOUNTING POSITION ONLY

UNITS	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
HY 3IDW180	2000	1600	960	52.4	532	465	2154	1764
HY 3IDW216					610	530		

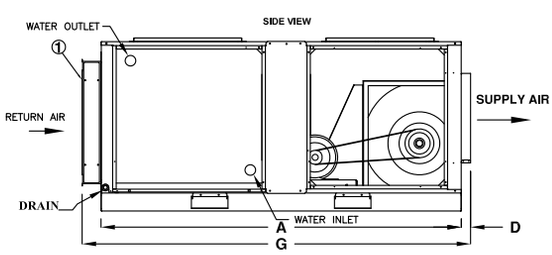


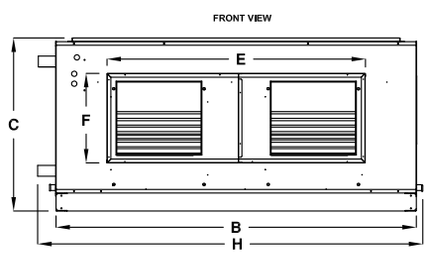


① R.A OPENING W x H	
HY 3IDH180	1431 x 702
HY 3IDH216	

HORIZONTAL MOUNTING POSITION ONLY

UNIT	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
3IDW240/300	2000	2000	960	51.2	1435	496	2156	2138





① R.A OPENING W x H	
HY 3IDH240	1835 x 702
HY 3IDH300	

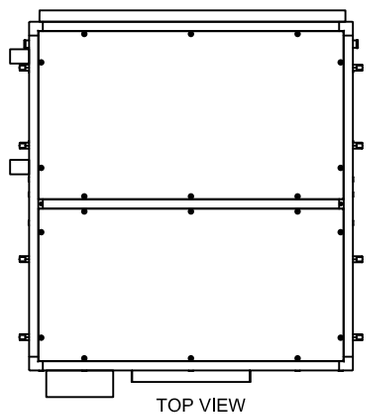
LAYOUT IS SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL ARRANGEMENT DRAWINGS

Double Skin

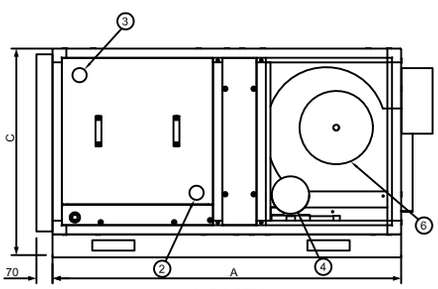
LEGENDS:

1. 25 mm AL. PROFILE NORMAL
2. CHILLED WATER INLET-LHS
3. CHILLED WATER OUTLET-LHS
4. MOTOR
5. CONTROL BOX
6. BLOWER
7. DRAIN PAN

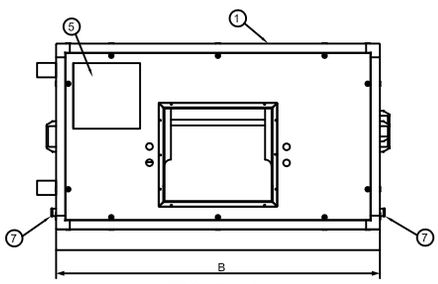


TOP VIEW

MODEL	A	B	C
072	1498	1172	805
090/120/150	1520	1412	910



LHS VIEW



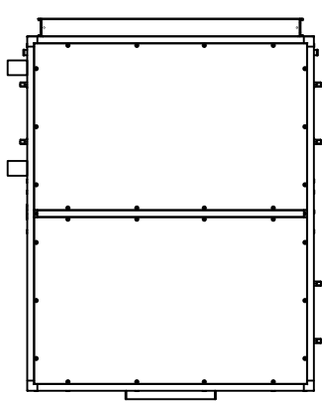
FRONT VIEW

ALL DIMENSIONS ARE IN MM

LAYOUT SUBJECT TO CHANGE WITHOUT ANY NOTICE

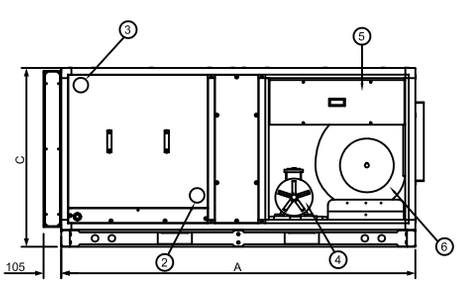
LEGENDS:

1. 25 mm AL. PROFILE NORMAL
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3. CHILLED WATER OUTLET-LHS
4. MOTOR
5. CONTROL BOX
6. BLOWER
7. DRAIN PAN

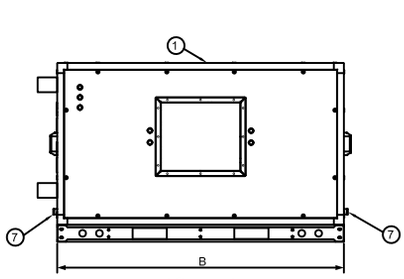


TOP VIEW

MODEL	A	B	C
180/216	2100	1700	1060



LHS VIEW



FRONT VIEW

ALL DIMENSIONS ARE IN MM

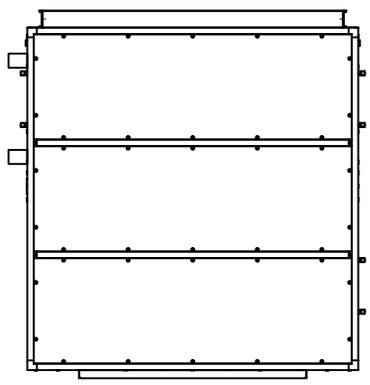
LAYOUT SUBJECT TO CHANGE WITHOUT ANY NOTICE

GENERAL ARRANGEMENT DRAWINGS

Double Skin

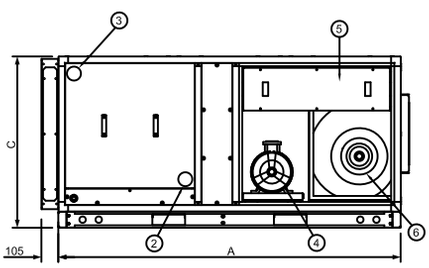
LEGENDS:

1. 25 mm AL. PROFILE NORMAL
2. CHILLED WATER INLET-LHS
3. CHILLED WATER OUTLET-LHS
4. MOTOR
5. CONTROL BOX
6. BLOWER
7. DRAIN PAN

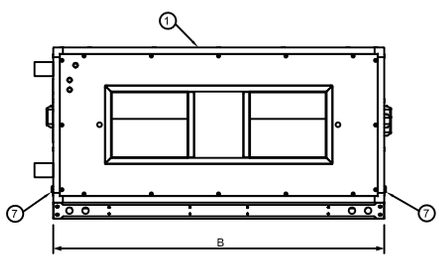


TOP VIEW

MODEL	A	B	C
240/300	2120	2050	1060



LHS VIEW



FRONT VIEW

ALL DIMENSIONS ARE IN MM

LAYOUT SUBJECT TO CHANGE WITHOUT ANY NOTICE

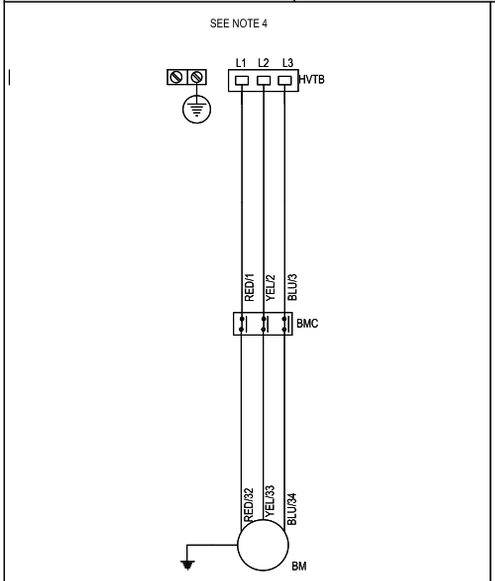
WIRING DIAGRAM

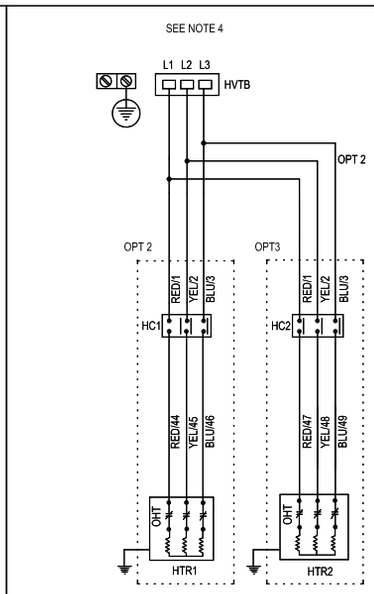
6TR - 20TR

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208–230 V/3PH/60 Hz
380–415 V/3PH/50Hz WITH NEUTRAL WIRE
380/400 V/3PH/60Hz WITH NEUTRAL WIRE
REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY.

WIRING DIAGRAM FOR INDOOR UNITS

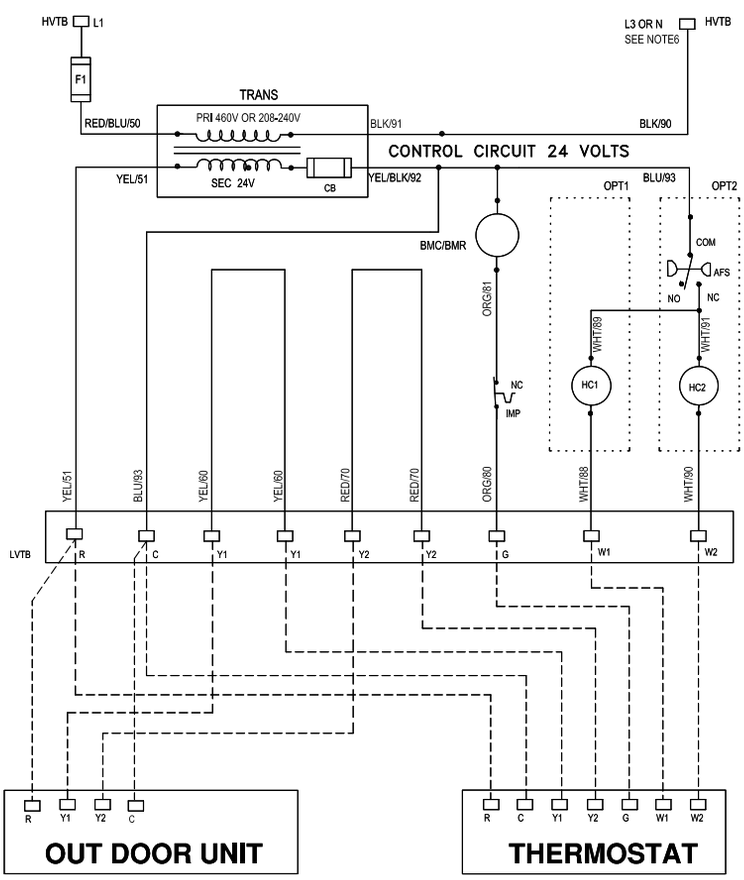
WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING ROOM THERMOSTAT TEMPERATURE BELOW 60°F WILL MAKE WARRANTY NULL AND VOID.





LEGEND

AFS	- AIR FLOW SWITCH
AI	- ANTI ICE
BLK	- BLACK
BLU	- BLUE
BM	- BLOWER MOTOR
BMC	- BLOWER MOTOR CONTACTOR
BRN	- BROWN
COM	- COMMON
F	- FUSE
HC	- HEATER CONTACTOR
HTR	- HEATER
HVTB	- HIGH VOLTAGE TERMINAL BLOCK
IMP	- INTERNAL MOTOR PROTECTION
L	- LINE
LVTB	- LOW VOLTAGE TERMINAL BLOCK
N	- NEUTRAL
NC	- NORMALLY CLOSED
NO	- NORMALLY OPEN
OHT	- OVER HEAT THERMOSTAT
OLR	- OVER LOAD RELAY
OPT	- OPTIONAL
PRI	- PRIMARY
RED	- RED
SEC	- SECONDARY
TRANS	- TRANSFORMER
T.STAT	- THERMOSTAT
YEL	- YELLOW
— —	- FIELD WIRING
•	- TERMINAL / SPLICE
-----	- OPTIONAL MARKING
⏚	- EARTHING



NOTES

1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUALENT AND COPPER CONDUCTOR ONLY.
2) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVENT RATING.
3) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR.
4) POWER CIRCUIT FOR 3 PHASE MOTOR OR 3 PHASE SINGLE STAGE OR TWO STAGE HEATING
   1) 208-230 V/3PH/60 Hz
   2) 380-415 V/3PH/50Hz WITH NEUTRAL WIRE
   3) 460 V/3PH/60Hz W/WO NEUTRAL WIRE
   4) 380/400 V/3PH/60Hz WITH NEUTRAL WIRE
5) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS
6) IF THE POWER SUPPLY IS 230V, CONNECT TO L3 IF THE POWER SUPPLY IS 380V, CONNECT TO N

OPTIONS

OPT. 1 - NIL
OPT. 2 - SINGLE STAGE HEATING
OPT. 3 - TWO STAGE HEATING

WIR–DIA–IDU–3PH–MTR		
C240400	1BC011D43	02

WIRING DIAGRAM

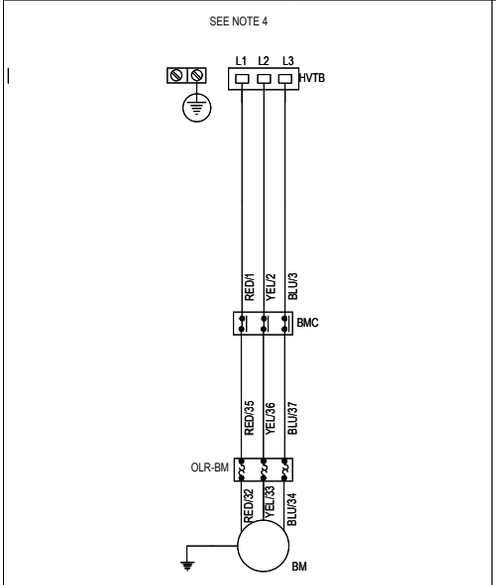
25TR

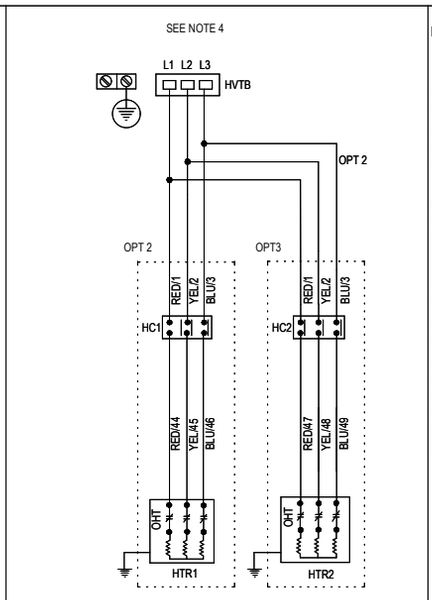
POWER SUPPLY
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REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY.

WIRING DIAGRAM FOR INDOOR UNITS

AWAL GULF MANUFACTURING Co. BSC (C)
SITRA, BAHRAIN.

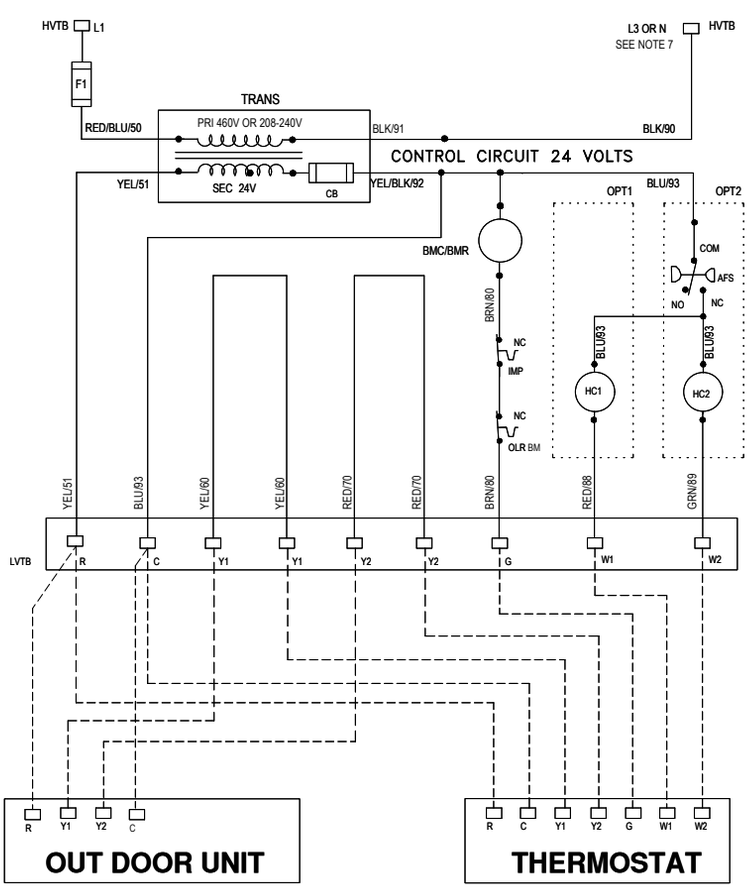
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LEGEND

AFS	- AIR FLOW SWITCH
AI	- ANTI ICE
BLK	- BLACK
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5) REFER INSTRUCTIONS WITH THE COMPO NENTS FOR STAR / DELTA CONNECTIONS
6) IF THE POWER SUPPLY IS 230V, CONNECT TO L1 IF THE POWER SUPPLY IS 380V, CONNECT TO N

OPTIONS

OPT. 1 - NIL
OPT. 2 - SINGLE STAGE HEATING
OPT. 3 - TWO STAGE HEATING

WIR–DIA–IDU–3PH–MTR		
C240412	1BCO11D68	00

08

CHILLED WATER FAN COIL UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



CHILLED WATER FAN COIL UNITS

AIR CONDITIONERS

Capacity 07-72K

HY-EDNW/HY-ESNW - 50Hz





صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

TABLE OF CONTENTS

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WIRING DIAGRAM 24

INTRODUCTION

Our fan coil units are designed and manufactured to suit low ceiling heights, compact elegant installations. These fan coil units are Eurovent certified, manufactured in ISO 9000 certified facility and have wide range of capacities and air flows to suit variety of applications including.

- Small Residence
- Apartment Houses
- Light Commercial Establishments
- Mosques
- Schools
- Hospitals
- High Rise Buildings
- Hotels and Motels
- Fine Restaurants

The fan coil units provide flexibility of architectural design, economy of operation and space usage, individual room control with privacy, quietness, versatility of location and installation and multiplicity of control systems.



HY-EDNW
7K, 9K, 12K, 18K, 24K & 30K



HY-ESNW
36K, 42K, 48K, 60K & 72K

HY ESNW
24K & 30K

FEATURES

GENERAL	- Galvanized Steel Casing - Junction Box with terminal Strip - Efficient Heat Exchangers made of Copper and enhanced Aluminum fins. - Fan Assembly. - Auto Air vent.
CASING	- Galvanized Steel Sheet of 0.8-1.2mm thick – Grade G90 - Electrostatic deposited Epoxy Powder Paint. - Passes salts spray test up to 1000 hours.
INSULATION	- Closed cell Elastomer (6mm thickness for high static units) - Density: 48kg/ m^3 - Fire Self-extinguishing type.
MOTOR	- Permanent Split Capacitor motor. - Three speed for single phase motors. - UL recognized and CSA approved motors.
FAN	- Aluminum material or engineering grade plastic. - Double inlet, double width centrifugal type. - Forward curved type. - Statically and dynamically balanced for quieter and vibration free operation.
COIL	- AHRI 410 certified coils. - Housed in galvanized steel frames. - Copper tubes (0.30mm thick) mechanically bonded to aluminum fins (0.11mm thick). - Manufactured by state-of-the-Art technology equipment. - Tested to 350psig.
DRAIN PAN	- Drain pan is made of 0.8mm thick GI. - 6mm thick insulation.
FILTER	- Washable panel filter (3mm thick) - 90% down to 50 microns

Optional Features

- District cooling coils with low GPM.
- Auxiliary drain pan.
- Aluminum Filter.
- Electronic controller with remote control.
- Electric Heater with a contactor
- Stainless steel drain pain
- Plenum insulation for low static units

MODEL DECODING

Indoor Unit – Low Static Chilled Water Fan Coil Units

HY 3	EDNW	12	F	C	A	3N	- E
	Product Line/Type	**Capacity BTU/Hr X 1000**	**Electric Code**	**Application**	**Category**	**Variations**	
CAC	EDNW: Low Static **Standard** Fan Coil.	07	220-240/1/50	C: Cool only. E: Electric.	Chilled Water	3R-(3Row Coil - RHS) 3N-(3Row Coil - LHS)	Second Generation
		09				2R-(2Row Coil - RHS) 2N-(2Row Coil - LHS)	
		12 18 24 30				3R-(3Row Coil - RHS) 3N-(3Row Coil - LHS) 4R-(4Row Coil - RHS) 4N-(4Row Coil - LHS)	

Notes:

- 9000 BTU/Hr Capacity is available with 2 rows only.
- 7000 BTU/Hr Capacity is available with 3 rows only.
- Read Low static models for district cooling applications for ΔT=14 and above as follows:
  3EDNW18 - 3DCWL19, 3EDNW24 - 3DCWL25 & 3EDNW30 - 3DCWL32

Indoor Unit – High Static Chilled Water Fan Coil Units

HY 3	ESNW	36	F	C	A	3N
	Product Line/Type	**Capacity BTU/Hr X 1000**	**Electric Code**	**Application**	**Category**	**Variations**
CAC	ESNW: High Static **Standard** Fan Coil Unit.	24 30 36 42 48 60 72	220-240/1/50	C: Cool only. E: Electric.	Chilled Water	3R-(3Row Coil - RHS) 3N-(3Row Coil - LHS) 4R-(4Row Coil - RHS) 4N-(4Row Coil - LHS)

Notes:

- Read model ESNW as DCWH for district cooling applications for ΔT=14 and above.

ENGINEERING SPECIFICATIONS

Indoor Models

TECHNICAL SPECIFICATIONS - LOW STATIC							
Models		HY EDNW07	HY EDNW09	HY EDNW12	HY EDNW18	HY EDNW24	HY EDNW30
Nominal capacity	(BTU/Hr)	7000	9000	12000	18000	24000	30000
Heating: Electric Heater (Optional)	Watts	1000	2000	2000	2000	2000	2000
Nominal Airflow@ 2 Rows Evap Coil	CFM		370	-	-	-	-
Nominal Airflow@ 3 Rows Evap Coil		211	-	402	664	749	969
Nominal Airflow@ 4 Rows Evap Coil		-	-	367	632	712	938
Fan Type	Double In Double width forward curve centrifugal Blowers, Statically & dynamically balance						
Fan Qty		2	2	2	2	2	2
Motor Output	Watts	50	47	50	125	125	300
	Amps	0.45	0.45	0.6	1	1	2.6
	Qty	1	1	1	1	1	1
Heat Current	Amps	9	9	9	9	9	9
Power Supply	V-Ph-Hz	220-240 V-1 Ph-50 Hz					
Sound Pressure Level (dBA) @ 1.5m according to JIS B8616-2006 standard	Low Speed	43	45	46	47	48	51
	Med Speed	46	48	48	49	50	54
	High Speed	48	50	50	51	52	56
Water In-Out Connections Size	Inch (mm)	7/8 " (22.2)					
Drain pipe Connection Size		3/4" (19.05)					
Unit Dimensions							
Width	Inch (mm)	27.9 (710)	31.4 (800)	31.4 (800)	40.3 (1025)	40.3 (1025)	40.3 (1025)
Depth		16.1 (410)	17.7 (450)	17.7 (450)	18.4 (469)	18.4 (469)	21 (535)
Height		7.8 (200)	8.6 (220)	8.6 (220)	9.6 (245)	9.6 (245)	11.2 (285)
Net Weight	Kg	16	20	20	29	29	39
Gross Weight	Kg	18	22	22	32	32	42

TECHNICAL SPECIFICATIONS - HIGH STATIC								
Models		HY ESNW24	HY ESNW30	HY ESNW36	HY ESNW42	**ESNW48**	**ESNW60**	**ESNW72**
Nominal capacity	(BTU/Hr)	24050	30080	36000	42000	48000	60000	72000
Heating: Electric Heater (Optional)	Watts	2000	2000	3300	3300	3300	3300	3300
Nominal Airflow@ 3 Rows Evap Coil	CFM	820	955	1214	1470	1643	1958	2221
Nominal Airflow@ 4 Rows Evap Coil		802	947	1192	1331	1474	1853	2117
Fan Type		Double In Double width forward curve centrifugal Blowers, Statically & dynamically balanced						
Fan Qty		2	2	2	2	2	2	2
Motor Output	Watts	300	300	430	430	430	559	559
	Amps	2.6	2.6	2.6	2.6	2.6	5	5
	Qty	1	1	1	1	1	1	1
Heat Current	Amps	9	9	15	15	15	15	15
Power Supply	V-Ph-Hz	220-240 V-1 Ph-50 Hz						
Sound Pressure Level (dBA) @ 1.5m according to JIS B8616-2006 standard	Low Speed	48	51	51	53	53	53	55
	Med Speed	50	52	53	55	55	56	59
	High Speed	52	54	54	56	56	58	61
Water In-Out Connections Size	Inch (mm)	7/8" (22.2)		1-1/8" (28.575)				
Drain pipe Connection Size		3/4" (19.05)		1" (25.4)				
Unit Dimensions								
Width	Inch (mm)	40.3 (1025)		43.3 (1100)		47.2 (1200)		
Depth		21 (535)		25.8 (656)		27.4 (696)		
Height		11.2 (285)		14.8 (378)		17.1 (435)		
Net Weight	Kg	39	39	68	71	78		
Gross Weight	Kg	42	42	72	75.5	82		

Notes: - As a result of continuous development and research, design and specifications are subject to change without notice.
- ¢2 ŘŜŮ2ŘŜ Řistrict cooling models for ΔT=14 and above
- Airflow measured at wet coil.

STANDARD COOLING PERFORMANCE

Low Static

PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)

MODEL	Speed	Air Flow		Air on DBT/WBT 75 °F/63°F										Air on DBT/WBT 80 °F/67 °F										Air on DBT/WBT 85 °F/71 °F									
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY EDNW07	HIGH	211	8	1.9	7.49	5.48	1.6	6.25	4.85	1.0	3.93	3.57	2.5	9.71	6.41	2.1	8.50	5.83	1.6	6.28	4.77	3.2	12.09	7.31	2.8	10.89	6.75	2.3	8.72	5.76
			10	1.5	6.94	5.16	1.1	5.62	4.46	0.8	3.69	3.47	1.9	9.21	6.14	1.7	7.95	5.52	1.1	5.60	4.35	2.4	11.62	7.06	2.1	10.38	6.48	1.7	8.12	5.44
			12	1.1	6.30	4.77	0.8	4.84	3.96	0.6	3.40	3.40	1.5	8.65	5.83	1.2	7.31	5.16	0.8	4.73	3.80	1.9	11.10	6.79	1.7	9.81	6.18	1.2	7.43	5.05
	MED	206	8	1.9	7.36	5.38	1.6	6.14	4.76	1.0	3.86	3.50	2.5	9.54	6.30	2.1	8.35	5.72	1.6	6.18	4.68	3.1	11.88	7.18	2.7	10.70	6.62	2.3	8.57	5.66
			10	1.4	6.82	5.06	1.1	5.53	4.38	0.8	3.62	3.40	1.9	9.05	6.03	1.6	7.81	5.42	1.1	5.50	4.27	2.4	11.42	6.93	2.1	10.20	6.36	1.7	7.98	5.34
			12	1.0	6.19	4.68	0.8	4.76	3.89	0.6	3.33	3.33	1.5	8.50	5.72	1.2	7.19	5.06	0.8	4.65	3.73	1.9	10.91	6.67	1.7	9.65	6.07	1.2	7.30	4.96
	LOW	200	8	1.8	7.20	5.26	1.6	6.01	4.66	1.0	3.77	3.41	2.4	9.34	6.15	2.1	8.17	5.59	1.6	6.05	4.58	3.1	11.62	7.01	2.7	10.47	6.48	2.1	8.39	5.53
			10	1.4	6.68	4.95	1.1	5.41	4.28	0.7	3.54	3.31	1.8	8.86	5.89	1.6	7.65	5.30	1.1	5.39	4.18	2.3	11.18	6.78	2.0	9.99	6.22	1.6	7.82	5.22
			12	1.0	6.06	4.57	0.8	4.66	3.80	0.6	3.25	3.25	1.5	8.33	5.59	1.2	7.04	4.95	0.8	4.55	3.65	1.8	10.68	6.52	1.6	9.45	5.94	1.2	7.16	4.86

PERFORMANCE DATA - 2 ROWS COOLING COIL BY TEMPERATURE RISE (°F)

MODEL	Speed	Air Flow		Air on DBT/WBT 75 °F/63°F										Air on DBT/WBT 80 °F/67 °F										Air on DBT/WBT 85 °F/71 °F									
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY EDNW09	HIGH	370	8	2.4	9.87	8.09	2.0	7.99	7.02	1.4	5.55	5.55	3.3	13.15	9.61	2.9	11.30	8.64	2.0	7.95	6.83	4.1	16.63	11.04	3.7	14.80	10.12	2.9	11.51	8.48
			10	1.7	8.70	7.30	1.4	6.66	6.06	1.0	5.02	5.02	2.4	12.06	8.94	2.0	10.13	7.90	1.3	6.55	5.83	3.1	15.60	10.44	2.8	13.70	9.48	2.0	10.27	7.71
			12	1.2	7.31	6.32	1.0	5.93	5.56	0.7	4.36	4.36	1.8	10.86	8.19	1.5	8.81	7.02	1.0	6.02	5.51	2.4	14.48	9.79	2.1	12.52	8.78	1.5	8.87	6.82
	MED	335	8	2.3	9.26	7.54	1.9	7.50	6.54	1.3	5.16	4.97	3.1	12.33	8.96	2.7	10.60	8.06	1.9	7.47	6.37	3.9	15.60	10.30	3.5	13.89	9.44	2.7	10.81	7.92
			10	1.6	8.17	6.80	1.3	6.24	5.64	1.0	4.65	4.65	2.2	11.32	8.35	1.9	9.52	7.37	1.3	6.13	5.42	2.9	14.63	9.75	2.5	12.87	8.85	1.9	9.66	7.21
			12	1.2	6.84	5.88	1.0	5.49	5.13	0.6	4.00	4.00	1.7	10.20	7.65	1.4	8.27	6.55	1.0	5.59	5.09	2.2	13.59	9.15	1.9	11.75	8.19	1.4	8.33	6.36
	LOW	300	8	2.1	8.61	6.96	1.7	6.98	6.04	1.2	4.75	4.54	2.9	11.46	8.28	2.4	9.86	7.44	1.7	6.96	5.89	3.6	14.50	9.52	3.2	12.92	8.73	2.5	10.07	7.32
			10	1.5	7.59	6.28	1.2	5.80	5.20	0.8	4.27	4.27	2.1	10.53	7.72	1.8	8.86	6.82	1.2	5.70	5.01	2.8	13.61	9.02	2.4	11.98	8.19	1.8	9.00	6.68
			12	1.1	6.33	5.41	0.8	5.03	4.69	0.5	3.42	3.42	1.6	9.49	7.07	1.3	7.69	6.06	0.8	5.13	4.65	2.1	12.66	8.47	1.8	10.95	7.59	1.3	7.76	5.89

Notes; - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000
- As a result of continuous development and reasearch, design and specifications are subject to change without notice.

STANDARD COOLING PERFORMANCE

Low Static

PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																													
MODEL	Speed	Air Flow		Air on DBT/WBT 75 °F/63°F									Air on DBT/WBT 80 °F/67 °F									Air on DBT/WBT 85 °F/71 °F								
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY EDNW12	HIGH	402	8	3.1	12.39	9.52	2.6	10.29	8.41	1.7	6.64	6.18	4.1	16.12	11.14	3.6	14.06	10.11	2.7	10.32	8.25	5.2	20.12	12.68	4.6	18.07	11.71	3.7	14.39	9.97
			10	2.4	11.42	8.91	1.8	9.19	7.69	1.3	6.21	5.97	3.1	15.22	10.62	2.7	13.07	9.53	1.8	9.11	7.47	4.0	19.26	12.21	3.6	17.15	11.20	2.7	13.32	9.36
			12	1.7	10.30	8.19	1.3	7.85	6.77	1.0	5.71	5.71	2.5	14.23	10.04	2.1	11.97	8.86	1.3	7.62	6.46	3.1	18.32	11.70	2.8	16.13	10.63	2.1	12.11	8.65
	MED	370	8	3.0	11.70	8.95	2.5	9.73	7.91	1.6	6.24	5.77	3.9	15.23	10.48	3.3	13.28	9.51	2.5	9.76	7.76	4.9	19.00	11.93	4.3	17.07	11.01	3.5	13.60	9.38
			10	2.2	10.79	8.38	1.8	8.69	7.24	1.2	5.83	5.58	2.9	14.38	9.99	2.5	12.36	8.97	1.7	8.62	7.03	3.7	18.19	11.50	3.3	16.21	10.54	2.6	12.60	8.81
			12	1.6	9.73	7.71	1.3	7.41	6.37	0.9	5.35	5.35	2.3	13.44	9.44	1.9	11.32	8.34	1.2	7.20	6.08	2.9	17.32	11.02	2.6	15.26	10.01	1.9	11.47	8.15
	LOW	347	8	2.9	11.20	8.52	2.4	9.31	7.53	1.5	5.94	5.47	3.7	14.56	9.98	3.2	12.70	9.06	2.4	9.34	7.39	4.6	18.16	11.38	4.2	16.32	10.50	3.3	13.02	8.95
			10	2.2	10.32	7.98	1.7	8.32	6.90	1.2	5.55	5.29	2.8	13.76	9.52	2.4	11.83	8.55	1.7	8.26	6.70	3.6	17.40	10.96	3.1	15.50	10.05	2.5	12.07	8.41
			12	1.6	9.31	7.34	1.2	7.09	6.07	0.9	5.09	5.09	2.2	12.86	9.00	1.8	10.84	7.96	1.2	6.89	5.79	2.8	16.57	10.51	2.5	14.61	9.56	1.8	10.98	7.78
HY EDNW18	HIGH	664	8	4.0	16.90	13.57	3.3	13.82	11.88	2.3	9.58	9.58	5.3	22.29	15.99	4.6	19.29	14.46	3.3	13.83	11.61	6.7	28.03	18.24	6.0	25.07	16.81	4.7	19.72	14.23
			10	2.9	15.15	12.41	2.3	11.80	10.45	1.7	8.73	8.73	4.0	20.70	15.02	3.4	17.56	13.38	2.2	11.67	10.10	5.1	26.53	17.40	4.5	23.46	15.89	3.4	17.88	13.12
			12	2.1	12.98	10.92	1.7	10.32	9.44	1.1	7.00	7.00	3.0	18.92	13.93	2.5	15.55	12.09	1.7	10.48	9.33	4.0	24.91	16.49	3.5	21.71	14.88	2.5	15.76	11.80
	MED	614	8	3.8	16.05	12.82	3.1	13.13	11.23	2.2	9.04	8.72	5.1	21.17	15.12	4.4	18.33	13.68	3.2	13.15	10.98	6.4	26.63	17.27	5.7	23.82	15.91	4.5	18.76	13.48
			10	2.8	14.38	11.72	2.1	11.18	9.86	1.6	8.21	8.21	3.8	19.67	14.21	3.2	16.69	12.66	2.1	11.07	9.55	4.8	25.22	16.48	4.3	22.31	15.05	3.3	17.01	12.42
			12	2.0	12.28	10.29	1.5	9.69	8.84	1.1	6.70	6.70	2.9	17.97	13.17	2.4	14.77	11.43	1.6	9.86	8.76	3.8	23.68	15.61	3.3	20.65	14.09	2.4	14.97	11.15
	LOW	584	8	3.7	15.53	12.36	3.0	12.70	10.82	2.1	8.70	8.38	4.9	20.48	14.58	4.3	17.74	13.19	3.1	12.73	10.60	6.2	25.76	16.66	5.5	23.04	15.35	4.4	18.16	13.01
			10	2.7	13.90	11.30	2.1	10.80	9.49	1.5	7.89	7.89	3.6	19.03	13.71	3.1	16.15	12.21	2.1	10.70	9.20	4.7	24.39	15.90	4.1	21.59	14.52	3.2	16.47	11.99
			12	1.9	11.83	9.89	1.4	9.00	8.28	1.0	6.52	6.52	2.8	17.38	12.71	2.3	14.27	11.02	1.5	9.48	8.41	3.7	22.91	15.07	3.2	19.97	13.59	2.3	14.49	10.76
HY EDNW24	HIGH	749	8	4.6	18.44	15.04	3.8	15.08	13.18	2.6	10.56	10.56	6.1	24.31	17.71	5.3	21.03	16.02	3.8	15.06	12.86	7.7	30.59	20.20	6.8	27.33	18.60	5.4	21.47	15.75
			10	3.3	16.54	13.76	2.6	12.90	11.61	1.9	9.65	9.65	4.5	22.57	16.64	3.8	19.14	14.81	2.5	12.73	11.20	5.8	28.94	19.26	5.1	25.56	17.58	3.9	19.46	14.50
			12	2.4	14.24	12.16	1.9	11.43	10.60	1.3	7.76	7.76	3.5	20.63	15.42	2.8	16.97	13.39	1.9	11.58	10.46	4.5	27.15	18.23	3.9	23.65	16.45	2.8	17.17	13.05
	MED	716	8	4.4	17.91	14.57	3.7	14.65	12.76	2.5	10.22	10.22	5.9	23.62	17.16	5.1	20.44	15.52	3.7	14.64	12.47	7.5	29.72	19.58	6.6	26.56	18.04	5.3	20.88	15.27
			10	3.3	16.07	13.33	2.5	12.53	11.24	1.9	9.33	9.33	4.4	21.94	16.13	3.7	18.61	14.36	2.5	12.37	10.85	5.6	28.11	18.66	4.9	24.85	17.04	3.8	18.93	14.06
			12	2.3	13.81	11.76	1.9	11.05	10.22	1.3	7.39	7.39	3.4	20.05	14.95	2.7	16.49	12.98	1.9	11.20	10.09	4.4	26.39	17.68	3.8	22.99	15.96	2.7	16.69	12.66
	LOW	664	8	4.2	17.06	13.81	3.5	13.96	12.10	2.4	9.67	9.67	5.6	22.50	16.28	4.8	19.48	14.72	3.5	13.96	11.82	7.0	28.30	18.58	6.3	25.31	17.12	4.9	19.91	14.49
			10	3.0	15.29	12.63	2.4	11.91	10.64	1.8	8.81	8.81	4.2	20.90	15.30	3.6	17.73	13.62	2.3	11.78	10.29	5.4	26.78	17.72	4.7	23.68	16.18	3.6	18.05	13.35
			12	2.2	13.11	11.12	1.8	10.42	9.61	1.2	7.07	7.07	3.2	19.10	14.18	2.6	15.70	12.31	1.8	10.58	9.50	4.2	25.15	16.79	3.7	21.92	15.15	2.6	15.91	12.01
HY EDNW30	HIGH	969	8	6.0	24.22	18.89	5.0	19.80	16.55	3.5	14.15	14.15	8.0	31.91	22.19	7.0	27.57	20.07	5.0	19.72	16.11	10.0	40.12	25.26	9.0	35.81	23.27	7.1	28.08	19.68
			10	4.3	21.75	17.29	3.4	17.04	14.64	2.6	13.02	13.02	5.9	29.62	20.84	5.0	25.10	18.55	3.4	16.75	14.06	7.6	37.94	24.08	6.7	33.50	21.99	5.1	25.44	18.10
			12	3.2	18.90	15.38	2.6	15.47	13.62	1.9	11.68	11.68	4.6	27.10	19.33	3.8	22.32	16.80	2.6	15.61	13.41	5.9	35.59	22.78	5.2	30.97	20.56	3.8	22.50	16.31
	MED	869	8	5.7	22.64	17.53	4.7	18.52	15.36	3.3	13.10	13.10	7.5	29.84	20.61	6.5	25.79	18.64	4.7	18.47	14.97	9.5	37.52	23.49	8.4	33.50	21.63	6.6	26.30	18.30
			10	4.1	20.35	16.06	3.2	15.93	13.58	2.4	12.04	12.04	5.6	27.71	19.37	4.7	23.50	17.25	3.2	15.68	13.07	7.2	35.50	22.40	6.3	31.34	20.43	4.8	23.85	16.85
			12	3.0	17.64	14.26	2.4	14.29	12.52	1.8	10.75	10.75	4.2	25.36	17.97	3.5	20.89	15.62	2.4	14.44	12.33	5.6	33.31	21.20	4.9	29.01	19.13	3.5	21.08	15.19
	LOW	807	8	5.5	21.61	16.65	4.4	17.69	14.59	3.1	12.43	12.43	7.2	28.48	19.59	6.2	24.63	17.71	4.4	17.65	14.23	9.0	35.82	22.34	8.1	31.99	20.57	6.4	25.14	17.41
			10	3.9	19.42	15.25	3.1	15.20	12.90	2.3	11.41	11.41	5.4	26.46	18.41	4.6	22.45	16.40	3.0	14.98	12.43	6.8	33.88	21.29	6.0	29.94	19.44	4.6	22.80	16.04
			12	2.9	16.82	13.54	2.3	13.53	11.81	1.7	10.14	10.14	4.1	24.22	17.09	3.3	19.96	14.86	2.3	13.68	11.65	5.4	31.82	20.18	4.7	27.72	18.21	3.4	20.16	14.46

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Coolng (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change to change without notice.

STANDARD COOLING PERFORMANCE

Low Static

MODEL	Speed	Air Flow	PERFORMANCE DATA - 4 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																							
			Air on DBT/WBT 75 °F/63°F									Air on DBT/WBT 80 °F/67 °F									Air on DBT/WBT 85 °F/71 °F					
				42 °F EWT		45 °F EWT		50 °F EWT		42 °F EWT		45 °F EWT		50 °F EWT		42 °F EWT		45 °F EWT		50 °F EWT						
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY EDNW12	HIGH	367	8	3.5	14.28	10.23	3.0	11.99	9.08	1.9	7.71	6.76	4.6	18.38	11.95	4.1	16.14	10.86	3.0	12.06	8.93	5.7	22.78	13.60	5.1	20.56	12.55	4.2	16.56	10.73
			10	2.7	13.38	9.71	2.1	10.96	8.46	1.4	7.10	6.45	3.5	17.57	11.50	3.0	15.24	10.36	2.1	10.91	8.26	4.4	22.02	13.20	4.0	19.73	12.12	3.1	15.57	10.21
			12	2.0	12.34	9.09	1.6	9.70	7.69	1.1	6.66	6.27	2.8	16.65	11.00	2.4	14.20	9.78	1.6	9.50	7.40	3.5	21.17	12.76	3.1	18.80	11.64	2.4	14.42	9.59
	MED	342	8	3.4	13.54	9.67	2.8	11.38	8.58	1.8	7.33	6.40	4.4	17.43	11.29	3.9	15.31	10.27	2.9	11.45	8.44	5.4	21.59	12.86	4.8	19.50	11.87	4.0	15.72	10.15
			10	2.6	12.70	9.18	2.0	10.41	8.01	1.3	6.70	6.07	3.3	16.67	10.88	2.9	14.47	9.81	2.0	10.38	7.82	4.2	20.88	12.49	3.7	18.72	11.47	3.0	14.79	9.66
			12	1.9	11.72	8.61	1.5	9.22	7.28	1.1	6.29	5.91	2.7	15.81	10.41	2.2	13.49	9.26	1.5	9.03	7.01	3.3	20.09	12.08	3.0	17.85	11.02	2.2	13.71	9.09
	LOW	322	8	3.2	12.94	9.21	2.7	10.88	8.18	1.7	7.02	6.10	4.2	16.64	10.76	3.6	14.63	9.79	2.8	10.96	8.05	5.1	20.61	12.25	4.6	18.62	11.31	3.7	15.02	9.68
			10	2.5	12.15	8.75	2.0	9.96	7.64	1.3	6.39	5.77	3.2	15.93	10.37	2.8	13.83	9.35	2.0	9.94	7.46	4.0	19.94	11.91	3.5	17.89	10.94	2.8	14.15	9.22
			12	1.8	11.21	8.21	1.5	8.82	6.94	1.0	6.00	5.61	2.5	15.12	9.93	2.1	12.91	8.84	1.4	8.64	6.68	3.2	19.20	11.52	2.8	17.07	10.51	2.1	13.13	8.67
HY EDNW18	HIGH	632	8	5.4	21.96	16.25	4.5	18.26	14.36	2.9	11.67	10.63	7.0	28.52	19.05	6.0	24.91	17.29	4.5	18.33	14.09	8.7	35.55	21.72	7.8	31.96	20.03	6.3	25.51	17.06
			10	3.9	20.26	15.24	3.2	16.34	13.15	2.1	10.91	10.29	5.3	26.98	18.19	4.6	23.21	16.32	3.2	16.22	12.79	6.7	34.09	20.95	5.9	30.40	19.20	4.7	23.67	16.05
			12	3.0	18.29	14.02	2.2	13.90	11.57	1.6	9.99	9.99	4.1	25.25	17.21	3.5	21.26	15.19	2.2	13.52	11.05	5.3	32.50	20.10	4.7	28.65	18.26	3.5	21.57	14.87
	MED	584	8	5.1	20.75	15.30	4.2	17.27	13.52	2.7	10.97	9.94	6.6	26.95	17.93	5.7	23.55	16.27	4.2	17.35	13.27	8.2	33.58	20.45	7.4	30.21	18.86	5.9	24.14	16.07
			10	3.7	19.16	14.34	3.0	15.44	12.38	2.0	10.25	9.63	5.0	25.51	17.13	4.3	21.96	15.37	3.0	15.36	12.06	6.3	32.22	19.74	5.6	28.75	18.09	4.3	22.42	15.13
			12	2.9	17.28	13.19	2.1	13.12	10.87	1.5	9.36	9.36	3.9	23.88	16.21	3.3	20.13	14.32	2.1	12.78	10.41	5.0	30.73	18.95	4.5	27.11	17.22	3.3	20.42	14.02
	LOW	555	8	4.9	20.00	14.70	4.0	16.66	12.99	2.5	10.54	9.53	6.4	25.97	17.24	5.5	22.70	15.65	4.1	16.74	12.76	8.0	32.35	19.67	7.1	29.11	18.14	5.7	23.28	15.46
			10	3.6	18.48	13.79	2.9	14.90	11.90	1.9	9.85	9.23	4.8	24.59	16.48	4.1	21.18	14.79	2.9	14.81	11.59	6.0	31.06	18.99	5.4	27.72	17.40	4.2	21.63	14.56
			12	2.8	16.65	12.68	2.0	12.63	10.44	1.5	8.77	8.77	3.7	23.03	15.60	3.2	19.41	13.77	2.0	12.32	10.00	4.9	29.63	18.23	4.2	26.15	16.57	3.2	19.71	13.49
HY EDNW24	HIGH	712	8	6.1	24.53	18.27	5.1	20.39	16.14	3.3	13.14	12.06	7.8	31.88	21.40	6.8	27.81	19.42	5.1	20.43	15.82	9.8	39.76	24.39	8.8	35.72	22.49	7.0	28.46	19.15
			10	4.5	22.62	17.11	3.6	18.22	14.78	2.4	12.29	11.68	5.9	30.13	20.42	5.2	25.90	18.32	3.5	18.06	14.35	7.5	38.09	23.50	6.7	33.93	21.54	5.2	26.38	17.99
			12	3.4	20.42	15.75	2.5	15.54	13.01	1.9	11.29	11.29	4.6	28.18	19.31	4.0	23.72	17.05	2.5	15.09	12.41	5.9	36.28	22.54	5.3	31.96	20.47	4.0	24.01	16.65
	MED	681	8	5.8	23.78	17.67	4.8	19.77	15.61	3.2	12.70	11.63	7.6	30.90	20.70	6.7	26.97	18.78	5.0	19.82	15.31	9.5	38.53	23.59	8.6	34.63	21.76	6.8	27.61	18.53
			10	4.3	21.94	16.56	3.5	17.68	14.29	2.3	11.88	11.26	5.7	29.22	19.75	5.0	25.12	17.73	3.5	17.54	13.89	7.3	36.93	22.74	6.5	32.91	20.84	5.1	25.60	17.42
			12	3.3	19.80	15.24	2.5	15.06	12.58	1.8	10.90	10.90	4.5	27.33	18.68	3.7	23.01	16.50	2.4	14.63	12.01	5.8	35.18	21.81	5.1	31.00	19.82	3.9	23.31	16.13
	LOW	632	8	5.6	22.57	16.69	4.6	18.77	14.75	3.0	11.99	10.92	7.3	29.31	19.56	6.3	25.60	17.75	4.6	18.83	14.48	9.0	36.54	22.30	8.1	32.85	20.57	6.5	26.22	17.53
			10	4.1	20.83	15.65	3.3	16.79	13.51	2.2	11.21	10.58	5.5	27.73	18.68	4.7	23.86	16.76	3.3	16.67	13.14	6.9	35.04	21.51	6.2	31.24	19.72	4.8	24.33	16.49
			12	3.1	18.80	14.40	2.3	14.28	11.88	1.7	10.26	10.26	4.3	25.95	17.67	3.6	21.85	15.60	2.3	13.89	11.35	5.5	33.40	20.64	4.8	29.45	18.76	3.6	22.17	15.27
HY EDNW30	HIGH	938	8	7.4	29.55	22.60	6.2	24.50	19.96	4.0	16.14	15.11	9.6	38.46	26.43	8.4	33.48	23.97	6.2	24.49	19.52	12.1	48.00	30.06	10.9	43.05	27.72	8.6	34.17	23.59
			10	5.5	27.20	21.13	4.4	21.86	18.22	3.0	15.11	14.60	7.3	36.25	25.16	6.3	31.10	22.56	4.4	21.58	17.64	9.2	45.88	28.92	8.2	40.79	26.49	6.4	31.59	22.11
			12	4.1	24.51	19.41	3.1	18.67	16.05	2.4	13.93	13.93	5.7	33.85	23.75	4.8	28.41	20.95	3.0	18.10	15.28	7.3	43.60	27.68	6.4	38.34	25.13	4.8	28.66	20.39
	MED	850	8	6.9	27.68	21.03	5.8	22.96	18.57	3.8	15.01	13.95	9.1	36.01	24.61	7.8	31.37	22.33	5.8	22.98	18.18	11.3	44.93	28.01	10.1	40.32	25.83	8.1	32.05	21.99
			10	5.2	25.50	19.68	4.1	20.51	16.98	2.8	14.05	13.49	6.8	33.97	23.44	5.8	29.15	21.03	4.1	20.28	16.46	8.6	42.98	26.96	7.7	38.24	24.70	5.9	29.66	20.63
			12	3.8	22.99	18.09	2.9	17.51	14.96	2.1	12.94	12.94	5.4	31.74	22.15	4.5	26.68	19.54	2.8	16.96	14.23	6.8	40.87	25.82	6.0	35.96	23.45	4.5	26.93	19.04
	LOW	789	8	6.6	26.32	19.90	5.5	21.85	17.58	3.6	14.20	13.13	8.6	34.23	23.30	7.5	29.84	21.14	5.5	21.87	17.22	10.8	42.70	26.54	9.6	38.34	24.47	7.7	30.50	20.83
			10	4.8	24.25	18.63	3.9	19.53	16.09	2.7	13.29	12.70	6.5	32.31	22.21	5.6	27.75	19.92	3.9	19.33	15.60	8.2	40.87	25.55	7.3	36.38	23.41	5.7	28.24	19.56
			12	3.7	21.88	17.14	2.8	16.67	14.17	2.0	12.23	12.23	5.0	30.20	20.99	4.3	25.40	18.53	2.7	16.16	13.49	6.5	38.89	24.48	5.7	34.23	22.24	4.4	25.68	18.08

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change without notice.

STANDARD COOLING PERFORMANCE

High Static

PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																													
MODEL	Speed	Air Flow		Air on DBT/WBT 75 °F/63°F									Air on DBT/WBT 80 °F/67 °F									Air on DBT/WBT 85 °F/71 °F								
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY ESNW24	HIGH	820	8	5.3	21.45	16.98	4.3	17.55	14.88	3.1	12.35	12.35	7.0	28.26	19.98	6.1	24.44	18.07	4.3	17.51	14.51	8.9	35.54	22.78	7.9	31.74	20.98	6.2	24.94	17.75
			10	3.9	19.27	15.56	3.0	15.08	13.16	2.2	11.34	11.34	5.2	26.25	18.78	4.4	22.27	16.72	3.0	14.86	12.68	6.7	33.61	21.71	5.9	29.70	19.82	4.6	22.62	16.36
			12	2.8	16.69	13.81	2.2	13.45	12.07	1.7	10.09	10.09	4.0	24.03	17.43	3.3	19.81	15.16	2.2	13.60	11.90	5.2	31.57	20.57	4.6	27.50	18.57	3.3	19.99	14.75
	MED	761	8	5.1	20.45	16.11	4.2	16.74	14.12	2.9	11.70	11.70	6.7	26.95	18.97	5.8	23.32	17.16	4.2	16.72	13.78	8.4	33.89	21.64	7.5	30.28	19.93	6.0	23.81	16.87
			10	3.7	18.38	14.76	2.9	14.37	12.48	2.1	10.73	10.73	5.0	25.04	17.84	4.2	21.25	15.89	2.9	14.18	12.04	6.4	32.07	20.64	5.7	28.35	18.84	4.3	21.60	15.55
			12	2.7	15.89	13.09	2.1	12.72	11.37	1.6	9.50	9.50	3.8	22.93	16.56	3.1	18.89	14.40	2.1	12.87	11.22	5.0	30.13	19.56	4.3	26.25	17.65	3.2	19.10	14.02
	LOW	705	8	4.9	19.47	15.26	4.0	15.94	13.37	2.8	11.06	10.69	6.4	25.66	17.98	5.6	22.21	16.26	4.0	15.94	13.07	8.0	32.25	20.52	7.2	28.84	18.90	5.7	22.69	16.00
			10	3.4	17.49	13.98	2.8	13.67	11.81	2.0	10.13	10.13	4.8	23.85	16.91	4.0	20.25	15.06	2.7	13.51	11.41	6.1	30.54	19.58	5.4	27.01	17.88	4.1	20.60	14.76
			12	2.6	15.09	12.38	2.0	12.00	10.70	1.3	8.12	8.12	3.7	21.83	15.70	3.0	17.99	13.65	2.0	12.15	10.56	4.8	28.69	18.56	4.1	25.02	16.75	3.0	18.21	13.31
HY ESNW30	HIGH	955	8	6.0	24.00	18.70	4.9	19.63	16.39	3.5	14.01	14.01	8.0	31.63	21.98	6.8	27.33	19.87	4.9	19.55	15.95	10.0	39.77	25.02	8.9	35.50	23.04	7.1	27.84	19.49
			10	4.3	21.56	17.12	3.4	16.89	14.49	2.6	12.88	12.88	5.9	29.36	20.64	5.0	24.88	18.37	3.3	16.60	13.93	7.5	37.61	23.85	6.7	33.21	21.78	5.1	25.23	17.93
			12	3.2	18.73	15.23	2.6	15.30	13.47	1.9	11.55	11.55	4.6	26.87	19.14	3.8	22.13	16.65	2.6	15.45	13.26	5.9	35.28	22.57	5.1	30.71	20.36	3.8	22.30	16.16
	MED	890	8	5.8	22.98	17.82	4.7	18.80	15.61	3.3	13.33	13.33	7.6	30.29	20.95	6.6	26.18	18.94	4.7	18.74	15.21	9.6	38.08	23.87	8.6	34.00	21.98	6.7	26.69	18.60
			10	4.1	20.65	16.32	3.3	16.17	13.81	2.5	12.25	12.25	5.7	28.12	19.68	4.8	23.85	17.53	3.2	15.91	13.29	7.3	36.03	22.77	6.4	31.82	20.78	4.9	24.19	17.12
			12	3.0	17.91	14.50	2.4	14.54	12.76	1.8	10.95	10.95	4.3	25.74	18.26	3.5	21.20	15.88	2.5	14.69	12.56	5.7	33.80	21.54	4.9	29.43	19.44	3.6	21.39	15.43
	LOW	820	8	5.5	21.83	16.84	4.4	17.87	14.75	3.2	12.57	12.57	7.2	28.77	19.81	6.3	24.88	17.91	4.4	17.83	14.39	9.1	36.18	22.58	8.1	32.32	20.80	6.4	25.38	17.60
			10	4.0	19.62	15.42	3.1	15.35	13.04	2.3	11.54	11.54	5.4	26.73	18.62	4.6	22.67	16.58	3.1	15.13	12.57	6.8	34.22	21.52	6.0	30.24	19.65	4.7	23.02	16.21
			12	2.9	16.99	13.69	2.3	13.69	11.96	1.7	10.27	10.27	4.1	24.46	17.28	3.4	20.16	15.03	2.3	13.84	11.79	5.4	32.14	20.39	4.7	28.00	18.41	3.4	20.35	14.62
HY ESNW36	HIGH	1214	8	9.8	39.32	30.19	8.0	32.13	26.32	5.5	21.78	20.13	12.9	51.84	35.78	11.1	44.80	32.21	8.0	32.01	25.68	16.3	65.21	41.08	14.5	58.22	37.67	11.3	45.67	31.66
			10	7.0	35.30	27.67	5.5	27.59	23.33	4.0	20.04	19.25	9.6	48.13	33.63	8.1	40.78	29.82	5.5	27.11	22.49	12.3	61.67	39.15	10.8	54.45	35.60	8.3	41.33	29.18
			12	5.0	30.62	24.65	4.0	23.78	20.84	3.0	17.98	17.98	7.4	44.00	31.20	6.0	36.22	27.05	4.0	24.02	20.58	9.6	57.82	37.04	8.4	50.30	33.29	6.1	36.44	26.28
	MED	1140	8	9.3	37.67	28.81	7.7	30.80	25.12	5.1	20.75	19.10	12.4	49.65	34.15	10.7	42.93	30.75	7.7	30.71	24.53	15.5	62.43	39.22	13.9	55.77	35.97	10.9	43.79	30.24
			10	6.7	33.84	26.42	5.3	26.47	22.29	3.8	19.09	18.27	9.1	46.13	32.12	7.8	39.10	28.49	5.3	26.02	21.50	11.8	59.08	37.40	10.4	52.19	34.01	7.9	39.68	27.90
			12	4.8	29.34	23.54	3.8	22.65	19.78	2.8	17.09	17.09	7.0	42.20	29.82	5.8	34.76	25.86	3.8	22.88	19.55	9.2	55.43	35.40	8.0	48.25	31.83	5.8	34.99	25.15
	LOW	1078	8	9.0	36.24	27.62	7.4	29.65	24.09	4.9	19.87	18.22	11.9	47.75	32.75	10.3	41.31	29.49	7.4	29.59	23.54	14.9	60.02	37.63	13.3	53.65	34.51	10.5	42.16	29.03
			10	6.5	32.57	25.34	5.0	25.48	21.38	3.7	18.27	17.43	8.8	44.39	30.82	7.5	37.65	27.34	5.0	25.08	20.64	11.3	56.84	35.90	10.0	50.24	32.65	7.7	38.23	26.79
			12	4.7	28.24	22.57	3.6	21.67	18.88	2.7	16.32	16.32	6.7	40.63	28.62	5.6	33.48	24.83	3.7	21.90	18.66	8.8	53.36	34.00	7.8	46.48	30.57	5.6	33.74	24.16
HY ESNW42	HIGH	1470	8	11.1	44.40	33.31	9.1	36.40	29.15	6.3	24.80	23.23	14.6	58.37	39.30	12.7	50.48	35.44	9.1	36.23	28.41	18.4	73.30	44.97	16.4	65.45	41.30	12.9	51.39	34.80
			10	8.1	40.12	30.68	6.4	31.60	26.04	4.7	22.94	22.94	10.9	54.34	37.02	9.3	46.16	32.94	6.3	31.02	25.08	14.0	69.42	42.91	12.3	61.33	39.09	9.4	46.74	32.18
			12	5.9	35.22	27.59	4.6	27.30	23.25	3.5	20.83	20.83	8.4	49.95	34.50	6.9	41.31	30.06	4.7	27.50	22.91	10.9	65.26	40.69	9.5	56.90	36.68	7.0	41.49	29.14
	MED	1274	8	10.2	40.40	30.02	8.4	33.15	26.27	5.6	22.29	20.66	13.4	53.06	35.45	11.6	45.95	31.98	8.3	33.05	25.65	16.7	66.59	40.59	14.9	59.53	37.28	11.8	46.86	31.45
			10	7.3	36.56	27.70	5.8	28.83	23.52	4.1	20.62	19.82	10.0	49.49	33.44	8.5	42.07	29.75	5.7	28.36	22.69	12.7	63.17	38.79	11.2	55.89	35.34	8.6	42.67	29.12
			12	5.4	32.10	24.92	4.1	24.50	20.71	3.2	18.67	18.67	7.6	45.52	31.19	6.4	37.71	27.19	4.1	24.71	20.43	10.0	59.47	36.82	8.7	51.88	33.19	6.4	37.96	26.43
	LOW	1140	8	9.4	37.46	27.65	7.7	30.78	24.20	5.2	20.48	18.84	12.4	49.17	32.66	10.7	42.63	29.47	7.7	30.72	23.65	15.5	61.67	37.41	13.9	55.19	34.37	10.9	43.52	29.01
			10	6.8	33.92	25.52	5.4	26.78	21.68	3.8	18.94	18.09	9.2	45.91	30.84	7.8	39.08	27.45	5.3	26.38	20.95	11.8	58.58	35.79	10.4	51.88	32.62	8.0	39.70	26.90
			12	5.0	29.79	22.97	3.8	22.49	18.91	2.9	17.10	17.10	7.1	42.29	28.79	5.9	35.06	25.11	3.8	22.70	18.66	9.2	55.21	34.01	8.1	48.23	30.67	5.9	35.35	24.44

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Coolng (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change to change without notice.

STANDARD COOLING PERFORMANCE

High Static

| PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F) | | |

STANDARD COOLING PERFORMANCE

High Static

PERFORMANCE DATA - 4 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																													
MODEL	Speed	Air Flow		Air on DBT/WBT 75 °F/63°F									Air on DBT/WBT 80 °F/67 °F									Air on DBT/WBT 85 °F/71 °F								
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY ESNW24	HIGH	802	8	6.6	25.90	19.80	5.5	21.50	17.49	3.5	13.99	12.95	8.6	33.68	23.18	7.5	29.35	21.02	5.5	21.52	17.12	10.7	42.01	26.39	9.6	37.72	24.33	7.6	30.00	20.71
			10	4.8	23.86	18.53	3.9	19.20	15.99	2.6	13.09	12.52	6.5	31.79	22.08	5.5	27.30	19.81	3.9	19.00	15.51	8.1	40.21	25.41	7.3	35.79	23.28	5.6	27.77	19.44
			12	3.6	21.52	17.04	2.8	16.39	14.09	2.1	12.05	12.05	5.1	29.70	20.87	4.2	24.98	18.42	2.8	15.89	13.41	6.5	38.25	24.34	5.7	33.67	22.11	4.3	25.25	17.97
	MED	744	8	6.3	24.60	18.72	5.2	20.43	16.54	3.4	13.22	12.17	8.1	31.99	21.92	7.0	27.89	19.89	5.2	20.47	16.21	10.1	39.89	24.97	9.1	35.83	23.03	7.3	28.53	19.61
			10	4.6	22.68	17.53	3.7	18.27	15.13	2.5	12.37	11.78	6.2	30.22	20.91	5.3	25.96	18.75	3.6	18.09	14.69	7.7	38.20	24.06	6.9	34.02	22.04	5.4	26.43	18.42
			12	3.4	20.46	16.13	2.6	15.59	13.33	2.0	11.37	11.37	4.7	28.24	19.76	4.1	23.78	17.45	2.5	15.12	12.70	6.2	36.37	23.06	5.4	32.02	20.94	4.1	24.05	17.03
	LOW	690	8	5.9	23.35	17.69	5.0	19.41	15.63	3.2	12.48	11.44	7.7	30.35	20.72	6.7	26.48	18.81	5.0	19.45	15.32	9.6	37.84	23.62	8.6	34.00	21.78	6.9	27.11	18.55
			10	4.4	21.54	16.57	3.5	17.35	14.31	2.4	11.67	11.07	5.8	28.69	19.77	5.1	24.66	17.74	3.5	17.21	13.90	7.4	36.26	22.76	6.6	32.31	20.86	5.1	25.13	17.43
			12	3.3	19.44	15.25	2.5	14.79	12.59	1.9	10.72	10.72	4.5	26.83	18.70	3.9	22.59	16.51	2.4	14.37	12.02	5.8	34.54	21.83	5.2	30.44	19.83	3.9	22.88	16.14
HY ESNW30	HIGH	947	8	7.5	29.74	22.75	6.2	24.66	20.10	4.1	16.26	15.23	9.7	38.70	26.61	8.5	33.69	24.14	6.2	24.64	19.65	12.1	48.30	30.27	10.9	43.32	27.91	8.6	34.39	23.75
			10	5.5	27.37	21.28	4.5	21.99	18.35	3.0	15.21	15.21	7.3	36.48	25.33	6.3	31.29	22.72	4.4	21.71	17.75	9.3	46.17	29.11	8.3	41.04	26.67	6.4	31.78	22.26
			12	4.1	24.67	19.55	3.1	18.79	16.16	2.4	14.03	14.03	5.7	34.05	23.91	4.8	28.59	21.09	3.0	18.23	15.39	7.4	43.87	27.86	6.5	38.58	25.30	4.8	28.84	20.52
	MED	884	8	7.2	28.41	21.64	5.9	23.57	19.12	3.9	15.45	14.40	9.3	36.97	25.32	8.1	32.20	22.97	5.9	23.57	18.70	11.5	46.13	28.81	10.4	41.39	26.57	8.3	32.88	22.61
			10	5.3	26.17	20.25	4.3	21.04	17.47	2.9	14.46	13.92	7.1	34.87	24.11	6.0	29.92	21.63	4.1	20.80	16.92	8.8	44.12	27.73	7.8	39.24	25.40	6.2	30.41	21.20
			12	3.9	23.59	18.61	3.0	17.97	15.39	2.2	13.33	13.33	5.5	32.57	22.78	4.6	27.36	20.10	2.9	17.39	14.63	7.1	41.94	26.55	6.2	36.89	24.10	4.6	27.61	19.57
	LOW	802	8	6.7	26.61	20.15	5.6	22.09	17.80	3.6	14.37	13.31	8.7	34.61	23.59	7.6	30.17	21.40	5.6	22.11	17.43	10.9	43.18	26.85	9.7	38.77	24.77	7.7	30.84	21.08
			10	4.9	24.52	18.86	3.9	19.73	16.27	2.7	13.45	12.87	6.6	32.67	22.48	5.6	28.06	20.16	3.9	19.53	15.78	8.3	41.33	25.86	7.4	36.78	23.69	5.7	28.54	19.78
			12	3.7	22.12	17.34	2.8	16.85	14.34	2.1	12.39	12.39	5.2	30.53	21.24	4.3	25.68	18.75	2.8	16.33	13.65	6.6	39.32	24.77	5.8	34.60	22.50	4.4	25.96	18.29
HY ESNW36	HIGH	1192	8	11.3	46.24	32.36	9.4	38.35	28.46	6.1	24.98	22.20	14.7	60.15	38.09	12.8	52.41	34.43	9.4	38.34	27.85	18.3	75.01	43.57	16.5	67.35	40.06	13.2	53.55	33.91
			10	8.3	42.53	30.25	6.6	34.10	25.96	4.6	23.44	21.60	11.1	56.75	36.28	9.5	48.69	32.42	6.6	33.67	25.16	14.0	71.81	41.95	12.5	63.89	38.31	9.7	49.50	31.80
			12	6.2	38.20	27.74	4.7	28.91	22.78	3.5	21.65	20.73	8.7	52.95	34.24	7.3	44.41	30.07	4.6	28.06	21.76	11.1	68.29	40.17	9.8	60.05	36.35	7.3	44.82	29.32
	MED	1105	8	10.7	43.77	30.50	8.9	36.33	26.84	5.8	23.51	20.79	13.9	56.89	35.91	12.1	49.62	32.46	8.9	36.37	26.29	17.3	70.90	41.09	15.6	63.71	37.78	12.4	50.73	31.99
			10	7.9	40.30	28.54	6.3	32.35	24.50	4.3	22.06	20.24	10.5	53.73	34.23	9.0	46.15	30.60	6.3	31.99	23.77	13.3	67.95	39.59	11.9	60.50	36.16	9.2	46.96	30.04
			12	5.9	36.22	26.19	4.5	27.42	21.51	3.3	20.37	19.43	8.1	50.19	32.33	6.8	42.13	28.41	4.3	26.50	20.47	10.5	64.68	37.93	9.3	56.93	34.34	7.0	42.57	27.73
	LOW	1045	8	10.3	42.01	29.19	8.6	34.90	25.69	5.5	22.47	19.81	13.4	54.58	34.37	11.7	47.63	31.08	8.6	34.96	25.18	16.6	67.99	39.33	15.0	61.13	36.16	11.9	48.73	30.64
			10	7.6	38.71	27.33	6.1	31.09	23.47	4.2	21.09	19.29	10.1	51.59	32.78	8.7	44.33	29.31	6.0	30.77	22.79	12.7	65.20	37.92	11.3	58.09	34.64	8.9	45.14	28.79
			12	5.7	34.81	25.09	4.3	26.36	20.61	3.2	19.47	18.52	7.8	48.22	30.98	6.6	40.50	27.23	4.2	25.49	19.62	10.2	62.10	36.35	8.9	54.70	32.92	6.6	40.95	26.60
HY ESNW42	HIGH	1331	8	12.7	52.05	36.64	10.6	43.31	32.30	6.9	28.01	24.74	16.5	67.48	43.03	14.4	58.91	38.94	10.6	43.35	31.63	20.5	83.97	49.16	18.4	75.49	45.22	14.7	60.21	38.36
			10	9.4	48.19	34.43	7.6	38.90	29.69	5.2	26.42	24.16	12.5	63.92	41.12	10.7	55.00	36.82	7.5	38.47	28.80	15.8	80.62	47.45	14.1	71.86	43.37	10.9	55.95	36.14
			12	7.1	43.68	31.81	5.5	33.54	26.42	4.0	24.61	23.34	9.8	59.96	38.98	8.3	50.54	34.36	5.3	32.47	25.18	12.5	76.93	45.56	11.0	67.82	41.30	8.4	51.03	33.52
	MED	1251	8	12.2	49.76	34.91	10.2	41.44	30.78	6.6	26.66	23.45	15.8	64.46	41.00	13.8	56.32	37.11	10.2	41.51	30.16	19.6	80.18	46.84	17.6	72.12	43.10	14.1	57.60	36.57
			10	9.0	46.10	32.83	7.3	37.25	28.32	4.9	25.15	22.91	12.0	61.12	39.21	10.3	52.64	35.12	7.2	36.87	27.49	15.1	77.04	45.24	13.5	68.72	41.37	10.5	53.57	34.48
			12	6.8	41.83	30.35	5.3	32.16	25.22	3.8	23.43	22.15	9.3	57.37	37.19	7.8	48.40	32.80	5.1	31.14	24.05	12.0	73.58	43.47	10.6	64.91	39.42	8.0	48.91	32.02
	LOW	1105	8	11.1	45.39	31.65	9.2	37.87	27.92	5.9	24.11	21.04	14.3	58.73	37.17	12.5	51.38	33.65	9.3	37.98	27.39	17.8	72.97	42.47	16.1	65.72	39.09	12.8	52.61	33.20
			10	8.3	42.13	29.80	6.7	34.11	25.73	4.5	22.76	20.59	10.9	55.78	35.59	9.4	48.12	31.90	6.6	33.81	25.01	13.8	70.22	41.07	12.3	62.72	37.57	9.6	49.04	31.36
			12	6.3	38.28	27.59	4.8	29.43	22.91	3.5	21.20	19.92	8.6	52.45	33.80	7.2	44.32	29.83	4.7	28.60	21.92	10.9	67.17	39.51	9.6	59.36	35.85	7.3	44.86	29.16

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Coolng (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change to change without notice.

STANDARD COOLING PERFORMANCE

High Static

MODEL	Speed	Air Flow		PERFORMANCE DATA - 4 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																													
				Air on DBT/WBT 75 °F/63°F								Air on DBT/WBT 80 °F/67 °F								Air on DBT/WBT 85 °F/71 °F											
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY ESNW48	HIGH	1474	8	13.7	56.00	39.64	11.3	46.53	34.93	7.4	30.37	27.01	17.7	72.67	46.55	15.5	63.37	42.11	11.3	46.50	34.17	22.0	90.49	53.16	19.8	81.27	48.90	15.8	64.69	41.45
			10	10.1	51.75	37.20	8.2	41.72	32.06	5.6	28.63	26.35	13.5	68.74	44.43	11.6	59.06	39.76	8.1	41.18	31.06	17.0	86.77	51.26	15.2	77.25	46.84	11.8	59.99	38.98
			12	7.6	46.86	34.34	5.8	35.93	28.49	4.3	26.66	25.43	10.5	64.36	42.06	8.8	54.19	37.06	5.7	34.70	27.10	13.5	82.69	49.17	11.9	72.81	44.55	8.9	54.64	36.11
			8	12.7	52.05	36.64	10.6	43.31	32.30	6.9	28.01	24.74	16.5	67.48	43.03	14.4	58.91	38.94	10.6	43.35	31.63	20.5	83.97	49.16	18.4	75.49	45.22	14.7	60.21	38.36
			10	9.4	48.19	34.43	7.6	38.90	29.69	5.2	26.42	24.16	12.5	63.92	41.12	10.7	55.00	36.82	7.5	38.47	28.80	15.8	80.62	47.45	14.1	71.86	43.37	10.9	55.95	36.14
			12	7.1	43.68	31.81	5.5	33.54	26.42	4.0	24.61	23.34	9.8	59.96	38.98	8.3	50.54	34.36	5.3	32.47	25.18	12.5	76.93	45.56	11.0	67.82	41.30	8.4	51.03	33.52
	MED	1331	8	12.2	49.76	34.91	10.2	41.44	30.78	6.6	26.66	23.45	15.8	64.46	41.00	13.8	56.32	37.11	10.2	41.51	30.16	19.6	80.18	46.84	17.6	72.12	43.10	14.1	57.60	36.57
			10	9.0	46.10	32.83	7.3	37.25	28.32	4.9	25.15	22.91	12.0	61.12	39.21	10.3	52.64	35.12	7.2	36.87	27.49	15.1	77.04	45.24	13.5	68.72	41.37	10.5	53.57	34.48
			12	6.8	41.83	30.35	5.3	32.16	25.22	3.8	23.43	22.15	9.3	57.37	37.19	7.8	48.40	32.80	5.1	31.14	24.05	12.0	73.58	43.47	10.6	64.91	39.42	8.0	48.91	32.02
	LOW	1251	8	18.4	73.14	40.50	15.3	60.92	35.74	10.0	39.56	35.05	23.7	94.69	47.48	20.8	82.68	42.99	15.3	60.91	34.97	29.6	117.75	54.17	26.7	105.84	49.85	21.3	84.43	42.32
			10	13.7	67.86	38.12	11.1	54.95	32.96	7.5	37.42	34.27	18.0	89.81	45.42	15.6	77.33	40.71	11.0	54.27	31.95	22.7	113.13	52.32	20.3	100.84	47.85	15.8	78.56	39.91
			12	10.3	61.81	35.36	8.1	47.82	29.54	5.9	35.00	33.19	14.1	84.38	43.11	12.0	71.27	38.08	7.7	46.26	28.14	18.1	108.07	50.29	16.0	95.31	45.62	12.1	71.89	37.12
HY ESNW60	HIGH	1853	8	17.5	69.66	38.42	14.6	58.08	33.92	9.4	37.49	33.06	22.6	90.13	45.05	19.8	78.76	40.80	14.7	58.12	33.22	28.1	112.02	51.41	25.3	100.76	47.32	20.3	80.48	40.19
			10	13.0	64.72	36.21	10.5	52.45	31.32	7.2	35.47	32.35	17.2	85.57	43.13	14.8	73.74	38.67	10.4	51.87	30.39	21.6	107.71	49.69	19.4	96.09	45.45	15.1	74.98	37.94
			12	9.9	58.99	33.61	7.6	45.69	28.09	5.6	33.20	31.36	13.4	80.49	40.98	11.4	68.03	36.21	7.4	44.24	26.79	17.2	102.98	47.79	15.2	90.90	43.37	11.5	68.68	35.32
	MED	1731	8	16.6	65.97	36.24	13.8	55.06	32.01	8.8	35.31	30.98	21.4	85.29	42.50	18.7	74.60	38.50	13.9	55.16	31.37	26.5	105.95	48.51	24.0	95.36	44.65	19.2	76.28	37.94
			10	12.3	61.36	34.19	10.0	49.79	29.58	6.7	33.44	30.34	16.2	81.06	40.72	14.0	69.92	36.52	10.0	49.30	28.73	20.5	101.97	46.92	18.3	91.04	42.93	14.3	71.16	35.85
			12	9.4	56.00	31.76	7.3	43.37	26.54	5.3	31.31	29.44	12.8	76.33	38.72	10.9	64.59	34.23	7.1	42.11	25.37	16.4	97.58	45.16	14.4	86.22	40.99	11.0	65.27	33.42
	LOW	1606	8	20.0	82.47	46.35	16.7	68.56	40.88	11.0	45.07	40.33	25.9	106.89	54.32	22.6	93.20	49.17	16.7	68.44	39.96	32.2	133.03	61.95	29.0	119.42	56.99	23.1	95.03	48.35
			10	14.8	76.35	43.56	12.0	61.67	37.62	8.3	42.58	39.36	19.6	101.20	51.89	16.9	86.98	46.48	11.8	60.81	36.41	24.8	127.60	59.76	22.1	113.59	54.63	17.1	88.24	45.52
			12	11.2	69.39	40.33	8.7	53.54	33.64	6.4	39.81	38.06	15.3	94.91	49.18	13.0	79.98	43.40	8.3	51.68	31.98	19.6	121.70	57.36	17.3	107.17	52.01	13.0	80.53	42.23
HY ESNW72	HIGH	2117	8	19.1	78.72	44.06	15.9	65.50	38.88	10.4	42.80	38.10	24.8	101.97	51.65	21.5	88.97	46.76	15.9	65.44	38.03	30.7	126.85	58.92	27.6	113.96	54.22	22.1	90.79	46.01
			10	14.1	72.95	41.45	11.4	58.99	35.81	7.9	40.46	37.22	18.8	96.63	49.38	16.1	83.12	44.24	11.3	58.24	34.70	23.6	121.78	56.87	21.1	108.48	52.01	16.4	84.39	43.35
			12	10.8	66.36	38.40	8.3	51.29	32.07	6.1	37.83	36.02	14.7	90.70	46.84	12.4	76.53	41.36	8.0	49.55	30.51	18.8	116.24	54.63	16.5	102.44	49.55	12.4	77.10	40.27
	MED	1980	8	18.2	75.12	41.89	15.2	62.57	36.97	9.9	40.63	36.00	23.5	97.25	49.11	20.6	84.92	44.47	15.2	62.56	36.18	29.3	120.93	56.04	26.4	108.70	51.57	21.1	86.71	43.78
			10	13.5	69.69	39.44	11.0	56.43	34.10	7.4	38.43	35.20	17.9	92.24	46.99	15.4	79.42	42.11	10.9	55.74	33.05	22.5	116.18	54.12	20.1	103.57	49.50	15.7	80.69	41.29
			12	10.2	63.48	36.58	8.0	49.11	30.56	5.9	35.95	34.09	14.0	86.66	44.60	11.9	73.19	39.40	7.7	47.51	29.11	18.0	110.99	52.02	15.9	97.89	47.19	12.0	73.83	38.40
	LOW	1853	8	18.2	75.12	41.89	15.2	62.57	36.97	9.9	40.63	36.00	23.5	97.25	49.11	20.6	84.92	44.47	15.2	62.56	36.18	29.3	120.93	56.04	26.4	108.70	51.57	21.1	86.71	43.78
			10	13.5	69.69	39.44	11.0	56.43	34.10	7.4	38.43	35.20	17.9	92.24	46.99	15.4	79.42	42.11	10.9	55.74	33.05	22.5	116.18	54.12	20.1	103.57	49.50	15.7	80.69	41.29
			12	10.2	63.48	36.58	8.0	49.11	30.56	5.9	35.95	34.09	14.0	86.66	44.60	11.9	73.19	39.40	7.7	47.51	29.11	18.0	110.99	52.02	15.9	97.89	47.19	12.0	73.83	38.40

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change without notice.

DISTRICT COOLING PERFORMANCE

Low Static

PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																																			
MODEL	Speed	Air Flow		Air on DBT/WBT 71 °F/60°F										Air on DBT/WBT 75 °F/63 °F										Air on DBT/WBT 80 °F/67 °F									
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWL07	HIGH	211	14	0.5	3.44	2.98	0.4	2.85	2.75	0.3	2.02	2.02	0.7	5.06	3.85	0.5	3.75	3.14	0.4	2.69	2.69	1.0	7.35	4.92	0.9	6.03	4.26	0.5	3.80	3.10
			16	0.4	3.14	2.79	0.3	2.64	2.64	0.2	1.77	1.77	0.5	3.93	3.13	0.4	3.31	2.87	0.3	2.48	2.48	0.8	6.67	4.54	0.6	5.17	3.74	0.4	3.40	2.88
	MED	206	14	0.5	3.36	2.90	0.4	2.81	2.70	0.3	1.99	1.99	0.7	4.97	3.78	0.5	3.68	3.08	0.4	2.65	2.65	1.0	7.23	4.83	0.8	5.93	4.18	0.5	3.72	3.04
			16	0.4	3.09	2.75	0.3	2.61	2.61	0.2	1.75	1.75	0.5	3.83	3.06	0.4	3.25	2.82	0.3	2.44	2.44	0.8	6.55	4.45	0.6	5.07	3.67	0.4	3.32	2.81
	LOW	200	14	0.5	3.27	2.82	0.4	2.76	2.64	0.3	1.95	1.95	0.7	4.86	3.69	0.5	3.59	3.00	0.4	2.60	2.60	1.0	7.08	4.73	0.8	5.80	4.09	0.5	3.64	2.97
			16	0.4	3.04	2.69	0.3	2.56	2.56	0.2	1.72	1.72	0.5	3.72	2.97	0.4	3.19	2.76	0.3	2.39	2.39	0.8	6.41	4.35	0.6	4.96	3.59	0.4	3.23	2.73

PERFORMANCE DATA - 2 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																																			
MODEL	Speed	Air Flow		Air on DBT/WBT 71 °F/60°F										Air on DBT/WBT 75 °F/63 °F										Air on DBT/WBT 80 °F/67 °F									
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWL09	HIGH	370	14	0.6	3.98	3.76	0.5	3.24	3.24	0.3	2.19	2.19	0.8	5.83	4.80	0.7	4.93	4.41	0.4	3.04	3.04	1.3	8.96	6.35	1.0	6.77	5.13	0.7	5.09	4.42
			16	0.4	3.54	3.42	0.4	2.92	2.92	0.2	1.85	1.85	0.6	4.64	4.00	0.5	3.76	3.54	0.3	2.72	2.72	0.9	7.37	5.38	0.7	5.91	4.61	0.5	3.82	3.49
	MED	335	14	0.5	3.68	3.47	0.4	3.09	3.09	0.3	2.10	2.10	0.8	5.38	4.42	0.6	4.52	4.04	0.4	2.90	2.90	1.2	8.40	5.93	0.9	6.32	4.77	0.7	4.70	4.07
			16	0.4	3.38	3.24	0.3	2.79	2.79	0.2	1.78	1.78	0.5	4.18	3.61	0.4	3.59	3.35	0.3	2.60	2.60	0.9	6.86	4.98	0.7	5.44	4.23	0.4	3.60	3.27
	LOW	300	14	0.5	3.48	3.25	0.4	2.93	2.93	0.3	1.99	1.99	0.7	4.90	4.02	0.5	3.74	3.40	0.4	2.75	2.75	1.1	7.80	5.47	0.8	5.83	4.38	0.6	4.28	3.69
			16	0.4	3.20	3.05	0.3	2.65	2.65	0.2	1.70	1.70	0.5	3.95	3.38	0.4	3.40	3.15	0.3	2.47	2.47	0.8	6.28	4.55	0.6	4.93	3.83	0.4	3.40	3.07

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000
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DISTRICT COOLING PERFORMANCE

Low Static

MODEL	Speed	Air Flow		PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																											
				Air on DBT/WBT 71 °F/60°F										Air on DBT/WBT 75 °F/63 °F										Air on DBT/WBT 80 °F/67 °F							
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWL12	HIGH	402	14	0.9	6.62	5.67	0.8	5.64	5.34	0.6	3.90	3.90	1.3	9.37	7.18	1.0	6.96	5.82	0.8	5.33	5.33	1.9	13.20	8.92	1.6	10.94	7.79	1.0	6.98	5.72
			16	0.8	6.18	5.42	0.6	5.15	5.15	0.4	2.99	2.99	1.0	8.09	6.36	0.8	6.54	5.60	0.6	4.84	4.84	1.5	12.15	8.33	1.2	9.69	7.04	0.8	6.57	5.51
	MED	370	14	0.9	6.23	5.30	0.8	5.30	5.00	0.5	3.66	3.66	1.3	8.87	6.76	0.9	6.55	5.45	0.7	5.01	5.01	1.8	12.48	8.40	1.5	10.36	7.34	0.9	6.56	5.36
			16	0.7	5.81	5.08	0.6	4.84	4.84	0.4	2.85	2.85	1.0	7.66	5.99	0.8	6.15	5.24	0.6	4.55	4.55	1.4	11.50	7.85	1.1	9.19	6.64	0.8	6.18	5.16
	LOW	347	14	0.8	5.94	5.04	0.7	5.06	4.75	0.5	3.48	3.48	1.2	8.50	6.45	0.9	6.24	5.18	0.7	4.78	4.78	1.7	11.95	8.02	1.4	9.93	7.01	0.9	6.26	5.09
			16	0.7	5.53	4.82	0.6	4.60	4.47	0.3	2.75	2.75	0.9	7.34	5.72	0.7	5.86	4.98	0.5	4.33	4.33	1.4	11.02	7.49	1.1	8.81	6.34	0.7	5.89	4.90
HY DCWL19	HIGH	664	14	1.5	10.25	8.89	1.2	8.73	8.37	0.9	6.02	6.02	2.0	14.35	11.14	1.5	10.79	9.14	1.2	8.24	8.24	2.9	20.25	13.86	2.4	16.74	12.08	1.5	10.81	8.97
			16	1.2	9.56	8.49	1.0	7.96	7.96	0.6	4.43	4.43	1.5	12.33	9.83	1.3	10.12	8.77	0.9	7.47	7.47	2.3	18.60	12.90	1.8	14.79	10.89	1.3	10.17	8.62
	MED	614	14	1.4	9.69	8.36	1.2	8.24	7.87	0.8	5.67	5.67	1.9	13.64	10.54	1.5	10.19	8.59	1.1	7.79	7.79	2.7	19.25	13.11	2.3	15.93	11.44	1.5	10.22	8.44
			16	1.1	9.02	7.99	0.9	7.51	7.51	0.5	4.25	4.25	1.5	11.73	9.30	1.2	9.56	8.25	0.9	7.05	7.05	2.2	17.69	12.22	1.8	14.09	10.32	1.2	9.61	8.11
	LOW	584	14	1.3	9.34	8.04	1.1	7.95	7.57	0.8	5.46	5.46	1.9	13.20	10.17	1.4	9.82	8.26	1.1	7.51	7.51	2.7	18.62	12.65	2.2	15.43	11.04	1.4	9.85	8.11
			16	1.1	8.70	7.68	0.9	7.23	7.23	0.5	4.13	4.13	1.4	11.35	8.98	1.1	9.21	7.93	0.8	6.79	6.79	2.1	17.13	11.79	1.7	13.64	9.96	1.2	9.26	7.80
HY DCWL25	HIGH	749	14	1.6	11.18	9.76	1.4	9.51	9.19	0.9	6.57	6.57	2.2	15.47	12.11	1.7	11.76	10.03	1.3	8.98	8.98	3.1	21.86	15.06	2.6	18.06	13.12	1.7	11.78	9.84
			16	1.3	10.42	9.32	1.1	8.68	8.68	0.6	5.08	5.08	1.7	13.30	10.68	1.4	11.03	9.62	1.0	8.15	8.15	2.5	20.06	14.01	2.0	15.94	11.81	1.4	11.08	9.44
	MED	716	14	1.5	10.83	9.43	1.3	9.21	8.87	0.9	6.36	6.36	2.1	15.05	11.74	1.6	11.38	9.68	1.2	8.70	8.70	3.0	21.25	14.61	2.5	17.56	12.72	1.6	11.41	9.50
			16	1.3	10.09	9.00	1.0	8.41	8.41	0.6	4.67	4.67	1.6	12.93	10.36	1.3	10.68	9.29	1.0	7.89	7.89	2.4	19.50	13.59	1.9	15.50	11.46	1.3	10.73	9.13
	LOW	664	14	1.5	10.25	8.89	1.2	8.73	8.37	0.9	6.02	6.02	2.0	14.35	11.14	1.5	10.79	9.14	1.2	8.24	8.24	2.9	20.25	13.86	2.4	16.74	12.08	1.5	10.81	8.97
			16	1.2	9.56	8.49	1.0	7.96	7.96	0.6	4.43	4.43	1.5	12.33	9.83	1.3	10.12	8.77	0.9	7.47	7.47	2.3	18.60	12.90	1.8	14.79	10.89	1.3	10.17	8.62
HY DCWL32	HIGH	969	14	1.9	13.38	11.86	1.6	11.38	11.38	1.1	7.88	7.88	2.6	18.09	14.41	2.0	14.07	12.19	1.5	10.75	10.75	3.6	25.60	17.92	3.0	21.09	15.58	2.0	14.11	11.94
			16	1.6	12.48	11.31	1.3	10.40	10.40	0.8	6.60	6.60	1.9	15.54	12.68	1.6	13.20	11.67	1.2	9.75	9.75	2.9	23.47	16.65	2.3	18.60	14.01	1.7	13.25	11.44
	MED	869	14	1.8	12.41	10.93	1.5	10.56	10.56	1.0	7.31	7.31	2.4	16.95	13.40	1.9	13.05	11.23	1.4	9.97	9.97	3.4	23.97	16.67	2.8	19.77	14.50	1.9	13.09	11.01
			16	1.4	11.57	10.43	1.2	9.65	9.65	0.8	6.08	6.08	1.8	14.56	11.80	1.5	12.24	10.76	1.1	9.05	9.05	2.7	21.97	15.48	2.2	17.43	13.04	1.5	12.29	10.56
	LOW	807	14	1.7	11.78	10.33	1.4	10.03	9.73	1.0	6.93	6.93	2.3	16.20	12.74	1.8	12.39	10.62	1.4	9.47	9.47	3.3	22.90	15.85	2.7	18.90	13.80	1.8	12.43	10.41
			16	1.4	10.99	9.86	1.1	9.16	9.16	0.7	5.74	5.74	1.7	13.93	11.23	1.5	11.63	10.18	1.1	8.59	8.59	2.6	21.00	14.73	2.1	16.67	12.42	1.5	11.68	9.99

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

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DISTRICT COOLING PERFORMANCE

Low Static

MODEL	Speed	Air Flow	PERFORMANCE DATA - 4 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																							
			Air on DBT/WBT 71 °F/60°F										Air on DBT/WBT 75 °F/63 °F										Air on DBT/WBT 80 °F/67 °F					
					42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWL12	HIGH	367	14	1.1	7.83	6.35	0.9	6.41	5.77	0.7	4.58	4.58	1.6	10.99	8.03	1.2	8.30	6.58	0.9	6.07	6.07	2.2	15.14	9.86	1.8	12.72	8.67	1.1	7.87	6.17
			16	0.9	7.05	5.90	0.7	5.97	5.55	0.5	3.96	3.96	1.2	9.76	7.29	0.9	7.42	6.07	0.7	5.62	5.62	1.8	14.14	9.31	1.4	11.51	7.99	0.9	7.43	5.97
	MED	342	14	1.1	7.46	6.02	0.9	6.07	5.44	0.6	4.33	4.33	1.5	10.46	7.61	1.1	7.91	6.24	0.8	5.74	5.74	2.0	14.38	9.34	1.7	12.10	8.22	1.1	7.50	5.85
			16	0.8	6.67	5.56	0.7	5.65	5.23	0.5	3.74	3.74	1.2	9.28	6.91	0.9	7.02	5.72	0.7	5.32	5.32	1.7	13.44	8.83	1.4	10.96	7.58	0.9	7.03	5.63
	LOW	322	14	1.0	7.14	5.74	0.8	5.79	5.17	0.6	4.13	4.13	1.4	10.01	7.26	1.1	7.58	5.96	0.8	5.48	5.48	2.0	13.76	8.91	1.7	11.59	7.85	1.0	7.20	5.60
			16	0.8	6.36	5.29	0.7	5.39	4.98	0.4	3.48	3.48	1.1	8.89	6.59	0.8	6.69	5.44	0.6	5.07	5.07	1.6	12.87	8.43	1.3	10.50	7.24	0.8	6.70	5.35
HY DCWL19	HIGH	632	14	1.8	12.62	10.37	1.5	10.30	9.39	1.1	7.42	7.42	2.5	17.51	12.98	1.9	13.33	10.72	1.4	9.74	9.74	3.4	23.99	15.84	2.9	20.19	13.97	1.8	12.65	10.04
			16	1.4	11.35	9.60	1.2	9.65	9.06	0.8	6.58	6.58	2.0	15.65	11.85	1.5	11.90	9.86	1.1	9.07	9.07	2.8	22.45	14.99	2.3	18.36	12.92	1.5	11.90	9.68
	MED	584	14	1.7	11.98	9.79	1.4	9.71	8.80	1.0	7.01	7.01	2.4	16.59	12.24	1.8	12.66	10.12	1.3	9.18	9.18	3.2	22.71	14.93	2.7	19.13	13.18	1.7	12.02	9.49
			16	1.3	10.70	9.02	1.1	9.10	8.51	0.8	6.22	6.22	1.9	14.85	11.19	1.4	11.22	9.25	1.1	8.56	8.56	2.6	21.27	14.14	2.2	17.42	12.20	1.4	11.21	9.08
	LOW	555	14	1.6	11.58	9.43	1.3	9.34	8.45	1.0	6.75	6.75	2.3	16.02	11.78	1.7	12.23	9.75	1.3	8.83	8.83	3.1	21.91	14.37	2.6	18.47	12.69	1.7	11.63	9.15
			16	1.3	10.30	8.65	1.1	8.76	8.17	0.7	5.99	5.99	1.8	14.35	10.78	1.3	10.80	8.88	1.0	8.24	8.24	2.6	20.54	13.62	2.1	16.83	11.76	1.3	10.79	8.72
HY DCWL25	HIGH	712	14	1.9	13.64	11.31	1.6	11.24	10.32	1.2	8.09	8.09	2.7	18.97	14.17	2.1	14.40	11.67	1.5	10.63	10.63	3.7	26.02	17.29	3.1	21.86	15.23	1.9	13.63	10.91
			16	1.5	12.39	10.56	1.3	10.53	9.95	0.9	7.17	7.17	2.1	16.92	12.91	1.6	13.00	10.84	1.2	9.89	9.89	3.0	24.32	16.34	2.5	19.85	14.07	1.6	12.99	10.64
	MED	681	14	1.9	13.25	10.95	1.6	10.88	9.97	1.1	7.84	7.84	2.6	18.42	13.72	2.0	13.99	11.31	1.5	10.29	10.29	3.6	25.25	16.73	3.0	21.22	14.75	1.9	13.26	10.59
			16	1.5	11.99	10.19	1.3	10.19	9.61	0.9	6.95	6.95	2.0	16.44	12.51	1.6	12.58	10.46	1.2	9.57	9.57	2.9	23.61	15.82	2.4	19.28	13.63	1.6	12.57	10.27
	LOW	632	14	1.8	12.62	10.37	1.5	10.30	9.39	1.1	7.42	7.42	2.5	17.51	12.98	1.9	13.33	10.72	1.4	9.74	9.74	3.4	23.99	15.84	2.9	20.19	13.97	1.8	12.65	10.04
			16	1.4	11.35	9.60	1.2	9.65	9.06	0.8	6.58	6.58	2.0	15.65	11.85	1.5	11.90	9.86	1.1	9.07	9.07	2.8	22.45	14.99	2.3	18.36	12.92	1.5	11.90	9.68
HY DCWL32	HIGH	938	14	2.2	15.61	13.31	1.9	13.37	12.60	1.4	9.46	9.46	3.1	21.88	16.75	2.3	16.35	13.65	1.8	12.63	12.63	4.3	30.44	20.63	3.6	25.34	18.06	2.3	16.36	13.39
			16	1.8	14.70	12.83	1.5	12.39	12.01	1.0	8.20	8.20	2.4	19.18	15.04	1.9	15.48	13.20	1.5	11.63	11.63	3.5	28.19	19.34	2.8	22.68	16.47	1.9	15.50	12.96
	MED	850	14	2.1	14.54	12.32	1.8	12.46	11.67	1.3	8.82	8.82	2.9	20.56	15.64	2.2	15.32	12.70	1.7	11.77	11.77	4.1	28.57	19.25	3.4	23.82	16.87	2.2	15.24	12.39
			16	1.7	13.69	11.89	1.4	11.55	11.14	1.0	7.65	7.65	2.2	18.04	14.05	1.8	14.42	12.23	1.4	10.85	10.85	3.3	26.49	18.06	2.7	21.35	15.41	1.8	14.44	12.01
	LOW	789	14	2.0	13.81	11.65	1.7	11.80	11.00	1.2	8.36	8.36	2.8	19.59	14.83	2.1	14.62	12.06	1.6	11.15	11.15	3.9	27.20	18.25	3.2	22.70	16.00	2.1	14.43	11.69
			16	1.6	12.98	11.22	1.4	10.94	10.51	0.9	7.24	7.24	2.1	17.22	13.35	1.7	13.66	11.54	1.3	10.28	10.28	3.1	25.24	17.14	2.5	20.37	14.63	1.7	13.68	11.33

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change without notice.

DISTRICT COOLING PERFORMANCE

High Static

MODEL	Speed	Air Flow	PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																									
			Air on DBT/WBT 71 °F/60°F										Air on DBT/WBT 75 °F/63°F										Air on DBT/WBT 80 °F/67 °F					
			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWH24	HIGH	820	14	1.7	11.92	10.46	1.4	10.14	9.85	1.0	7.01	7.01	2.3	16.36	12.88	1.8	12.53	10.74	1.4	9.58	9.58	3.3	23.13	16.03	2.7	19.09	13.95	1.8	12.57	10.54
			16	1.4	11.11	9.98	1.2	9.26	9.26	0.7	5.82	5.82	1.8	14.06	11.36	1.5	11.76	10.30	1.1	8.69	8.69	2.6	21.21	14.89	2.1	16.84	12.55	1.5	11.81	10.11
	MED	761	14	1.6	11.31	9.88	1.4	9.62	9.30	0.9	6.65	6.65	2.2	15.63	12.24	1.7	11.89	10.15	1.3	9.09	9.09	3.1	22.08	15.23	2.6	18.23	13.26	1.7	11.92	9.96
			16	1.3	10.54	9.43	1.1	8.78	8.78	0.7	5.35	5.35	1.7	13.43	10.80	1.4	11.16	9.74	1.0	8.24	8.24	2.5	20.26	14.16	2.0	16.09	11.94	1.4	11.20	9.56
	LOW	705	14	1.5	10.71	9.31	1.3	9.11	8.77	0.9	6.29	6.29	2.1	14.90	11.61	1.6	11.26	9.57	1.2	8.61	8.61	3.0	21.04	14.45	2.5	17.39	12.59	1.6	11.29	9.39
			16	1.2	9.98	8.89	1.0	8.31	8.31	0.6	4.60	4.60	1.6	12.81	10.25	1.3	10.56	9.18	1.0	7.80	7.80	2.4	19.31	13.44	1.9	15.35	11.34	1.3	10.61	9.02
HY DCWH30	HIGH	955	14	1.9	13.25	11.74	1.6	11.27	11.27	1.1	7.80	7.80	2.6	17.94	14.27	2.0	13.93	12.05	1.5	10.64	10.64	3.6	25.38	17.75	3.0	20.91	15.43	2.0	13.97	11.81
			16	1.5	12.35	11.19	1.3	10.30	10.30	0.8	6.53	6.53	1.9	15.40	12.56	1.6	13.07	11.54	1.2	9.66	9.66	2.9	23.27	16.49	2.3	18.44	13.88	1.6	13.12	11.32
	MED	890	14	1.8	12.62	11.13	1.5	10.73	10.73	1.1	7.43	7.43	2.4	17.20	13.61	1.9	13.27	11.43	1.4	10.14	10.14	3.5	24.32	16.93	2.9	20.05	14.73	1.9	13.30	11.21
			16	1.5	11.76	10.61	1.2	9.81	9.81	0.8	6.20	6.20	1.8	14.77	11.99	1.6	12.45	10.95	1.1	9.20	9.20	2.8	22.29	15.73	2.2	17.70	13.26	1.6	12.50	10.74
	LOW	820	14	1.7	11.92	10.46	1.4	10.14	9.85	1.0	7.01	7.01	2.3	16.36	12.88	1.8	12.53	10.74	1.4	9.58	9.58	3.3	23.13	16.03	2.7	19.09	13.95	1.8	12.57	10.54
			16	1.4	11.11	9.98	1.2	9.26	9.26	0.7	5.82	5.82	1.8	14.06	11.36	1.5	11.76	10.30	1.1	8.69	8.69	2.6	21.21	14.89	2.1	16.84	12.55	1.5	11.81	10.11
HY DCWH36	HIGH	1214	14	2.7	19.03	16.76	2.2	15.18	15.18	1.2	8.49	8.49	3.4	23.93	18.91	2.9	20.61	17.62	2.1	14.44	14.44	5.3	37.49	25.60	4.2	29.31	21.29	3.0	21.00	17.51
			16	1.7	13.70	12.97	1.4	11.31	11.31	0.9	7.21	7.21	2.7	21.65	17.59	2.2	17.95	15.92	1.3	10.53	10.53	4.0	32.18	22.51	3.1	24.45	18.35	2.3	18.69	16.08
	MED	1140	14	2.6	18.03	15.85	1.7	12.14	12.14	1.2	8.26	8.26	3.2	22.76	17.94	2.8	19.58	16.70	1.6	11.40	11.40	5.1	35.95	24.47	4.0	28.10	20.34	2.9	19.98	16.62
			16	1.7	13.29	12.52	1.4	10.98	10.98	0.9	7.02	7.02	2.6	20.51	16.65	1.8	14.34	13.13	1.3	10.23	10.23	3.8	30.83	21.50	2.9	23.24	17.41	2.2	17.69	15.21
	LOW	1078	14	2.4	17.15	15.07	1.7	11.81	11.81	1.1	8.05	8.05	3.1	21.76	17.11	2.7	18.69	15.92	1.6	11.09	11.09	4.9	34.62	23.49	3.9	27.04	19.52	2.7	19.09	15.86
			16	1.6	12.94	12.12	1.3	10.70	10.70	0.9	6.86	6.86	2.4	19.52	15.83	1.7	13.71	12.53	1.2	9.97	9.97	3.7	29.65	20.62	2.8	22.20	16.60	2.1	16.82	14.45
HY DCWH42	HIGH	1470	14	3.8	26.85	22.61	3.3	22.89	21.32	2.3	15.93	15.93	5.2	36.39	27.56	4.0	28.21	23.24	3.1	21.64	21.64	7.3	51.58	34.50	6.1	42.49	29.93	4.0	28.27	22.85
			16	3.1	25.08	21.67	2.6	20.97	20.16	1.7	13.39	13.39	3.9	31.08	24.23	3.3	26.53	22.39	2.5	19.70	19.70	5.9	47.23	32.05	4.7	37.30	26.87	3.3	26.64	22.04
	MED	1274	14	3.4	24.13	20.15	2.9	20.59	19.00	2.0	14.33	14.33	4.7	33.20	24.90	3.6	25.35	20.71	2.8	19.47	19.47	6.7	46.96	31.16	5.5	38.76	27.06	3.6	25.40	20.37
			16	2.8	22.55	19.33	2.4	18.87	18.00	1.5	11.99	11.99	3.5	28.43	21.94	3.0	23.85	19.97	2.2	17.72	17.72	5.4	43.04	28.97	4.3	34.12	24.35	3.0	23.96	19.67
	LOW	1140	14	3.2	22.17	18.40	2.7	18.93	17.36	1.9	13.18	13.18	4.4	30.86	22.98	3.3	23.29	18.91	2.6	17.90	17.90	6.2	43.58	28.74	5.1	36.01	24.97	3.3	23.35	18.61
			16	2.6	20.74	17.67	2.2	17.35	16.46	1.4	10.97	10.97	3.3	26.45	20.28	2.7	21.93	18.25	2.0	16.30	16.30	5.0	40.00	26.76	4.0	31.78	22.53	2.8	22.03	17.99

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

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DISTRICT COOLING PERFORMANCE

High Static

MODEL	Speed	Air Flow		PERFORMANCE DATA - 3 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																					
				Air on DBT/WBT 71 °F/60°F										Air on DBT/WBT 75 °F/63°F								Air on DBT/WBT 80 °F/67 °F			
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWH48	HIGH	1643	14	4.1	29.13	24.70	3.5	24.83	23.28	2.5	17.26	17.26	5.6	39.00	29.77	4.4	30.61	25.39	3.4	23.46	23.46	7.9	55.39	37.29	6.5	45.52	32.30	4.4	30.68	24.96
			16	3.4	27.20	23.65	2.8	22.73	21.99	1.8	14.54	14.54	4.1	33.26	26.12	3.6	28.77	24.43	2.7	21.34	21.34	6.3	50.61	34.58	5.0	39.91	28.96	3.6	28.89	24.04
	MED	1470	14	3.8	26.85	22.61	3.3	22.89	21.32	2.3	15.93	15.93	5.2	36.39	27.56	4.0	28.21	23.24	3.1	21.64	21.64	7.3	51.58	34.50	6.1	42.49	29.93	4.0	28.27	22.85
			16	3.1	25.08	21.67	2.6	20.97	20.16	1.7	13.39	13.39	3.9	31.08	24.23	3.3	26.53	22.39	2.5	19.70	19.70	5.9	47.23	32.05	4.7	37.30	26.87	3.3	26.64	22.04
	LOW	1274	14	3.4	24.13	20.15	2.9	20.59	19.00	2.0	14.33	14.33	4.7	33.20	24.90	3.6	25.35	20.71	2.8	19.47	19.47	6.7	46.96	31.16	5.5	38.76	27.06	3.6	25.40	20.37
			16	2.8	22.55	19.33	2.4	18.87	18.00	1.5	11.99	11.99	3.5	28.43	21.94	3.0	23.85	19.97	2.2	17.72	17.72	5.4	43.04	28.97	4.3	34.12	24.35	3.0	23.96	19.67
HY DCWH60	HIGH	1958	14	4.6	32.21	27.82	3.9	27.17	26.01	2.6	18.02	18.02	6.0	42.19	32.77	4.9	34.06	28.72	3.7	25.68	25.68	8.8	61.48	41.87	7.1	49.88	35.91	4.9	34.25	28.28
			16	3.7	29.56	26.25	3.0	24.21	24.21	1.4	11.17	11.17	4.6	36.56	29.21	3.9	31.57	27.31	2.8	22.71	22.71	6.9	55.33	38.32	5.3	42.63	31.49	4.0	31.87	26.94
	MED	1824	14	4.4	30.56	26.30	3.7	25.78	24.59	2.4	17.04	17.04	5.8	40.35	31.20	4.6	32.32	27.16	3.5	24.37	24.37	8.4	58.77	39.86	6.8	47.74	34.21	4.6	32.52	26.75
			16	3.5	28.03	24.81	2.9	22.93	22.93	1.4	10.84	10.84	4.3	34.68	27.62	3.7	29.96	25.82	2.7	21.51	21.51	6.6	52.94	36.51	5.1	40.81	30.02	3.8	30.25	25.49
	LOW	1674	14	4.1	28.66	24.55	3.4	24.16	22.95	2.3	15.87	15.87	5.4	38.20	29.37	4.3	30.32	25.36	3.3	22.85	22.85	7.9	55.61	37.54	6.4	45.22	32.23	4.4	30.51	24.98
			16	3.3	26.26	23.15	2.7	21.42	21.42	1.3	10.45	10.45	4.1	32.53	25.79	3.5	28.09	24.11	2.5	20.12	20.12	6.3	50.13	34.41	4.8	38.68	28.30	3.5	28.37	23.82
HY DCWH72	HIGH	2221	14	5.0	35.29	30.71	4.2	29.78	28.71	2.8	19.86	19.86	6.5	45.55	35.69	5.3	37.31	31.70	4.0	28.13	28.13	9.5	66.44	45.61	7.7	53.82	39.07	5.4	37.52	31.20
			16	4.0	32.42	28.97	3.3	26.60	26.60	1.5	11.76	11.76	5.0	40.06	32.22	4.3	34.59	30.12	3.1	24.94	24.94	7.4	59.71	41.68	5.7	45.96	34.22	4.4	34.90	29.69
	MED	2109	14	4.8	34.00	29.50	4.1	28.68	27.58	2.7	19.09	19.09	6.3	44.17	34.48	5.1	35.95	30.45	3.9	27.11	27.11	9.2	64.36	44.04	7.4	52.20	37.76	5.2	36.15	29.97
			16	3.9	31.22	27.82	3.2	25.61	25.61	1.4	11.51	11.51	4.8	38.59	30.95	4.2	33.33	28.93	3.0	24.01	24.01	7.2	57.91	40.29	5.6	44.58	33.08	4.2	33.63	28.54
	LOW	1958	14	4.6	32.21	27.82	3.9	27.17	26.01	2.6	18.02	18.02	6.0	42.19	32.77	4.9	34.06	28.72	3.7	25.68	25.68	8.8	61.48	41.87	7.1	49.88	35.91	4.9	34.25	28.28
			16	3.7	29.56	26.25	3.0	24.21	24.21	1.4	11.17	11.17	4.6	36.56	29.21	3.9	31.57	27.31	2.8	22.71	22.71	6.9	55.33	38.32	5.3	42.63	31.49	4.0	31.87	26.94

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

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DISTRICT COOLING PERFORMANCE

High Static

MODEL	Speed	Air Flow		PERFORMANCE DATA - 4 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																							
				Air on DBT/WBT 71 °F/60°F								Air on DBT/WBT 75 °F/63°F								Air on DBT/WBT 80 °F/67 °F							
				42 °F EWT			45 °F EWT			50 °F EWT		42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT	
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWH24	HIGH	802	14	2.0	13.96	11.79	1.7	11.94	11.14	1.2	8.46	8.46	2.8	19.80	15.00	2.1	14.77	12.19	1.6	11.29	11.29	3.9	27.49	18.46	3.3	22.94	16.19	2.1	14.60	11.84
			16	1.6	13.13	11.36	1.4	11.07	10.64	0.9	7.33	7.33	2.2	17.40	13.50	1.7	13.83	11.69	1.3	10.40	10.40	3.2	25.51	17.34	2.6	20.58	14.80	1.7	13.85	11.48
	MED	744	14	1.9	13.30	11.18	1.6	11.31	10.50	1.1	8.02	8.02	2.7	18.86	14.22	2.0	14.08	11.57	1.5	10.69	10.69	3.7	26.15	17.49	3.1	21.85	15.35	2.0	13.82	11.16
			16	1.6	12.43	10.71	1.3	10.48	10.04	0.9	6.93	6.93	2.1	16.58	12.80	1.6	13.09	11.02	1.2	9.85	9.85	3.0	24.29	16.44	2.4	19.62	14.04	1.6	13.11	10.82
	LOW	690	14	1.8	12.67	10.59	1.5	10.69	9.89	1.1	7.59	7.59	2.6	17.95	13.47	1.9	13.42	10.96	1.4	10.11	10.11	3.5	24.87	16.56	3.0	20.79	14.54	1.9	13.07	10.51
			16	1.5	11.76	10.09	1.2	9.92	9.46	0.8	6.55	6.55	2.0	15.79	12.13	1.5	12.38	10.38	1.2	9.32	9.32	2.9	23.11	15.58	2.3	18.68	13.31	1.5	12.40	10.20
HY DCWH30	HIGH	947	14	2.2	15.71	13.41	1.9	13.46	12.69	1.4	9.53	9.53	3.1	22.01	16.86	2.3	16.46	13.75	1.8	12.72	12.72	4.4	30.63	20.76	3.6	25.49	18.18	2.4	16.47	13.48
			16	1.8	14.80	12.92	1.6	12.47	12.10	1.0	8.26	8.26	2.4	19.29	15.13	1.9	15.59	13.30	1.5	11.71	11.71	3.5	28.36	19.46	2.8	22.82	16.58	2.0	15.61	13.05
	MED	884	14	2.1	14.96	12.71	1.8	12.81	12.03	1.3	9.07	9.07	3.0	21.08	16.08	2.2	15.70	13.05	1.7	12.11	12.11	4.2	29.30	19.78	3.5	24.41	17.33	2.2	15.68	12.78
			16	1.8	14.09	12.26	1.5	11.88	11.48	1.0	7.86	7.86	2.3	18.49	14.44	1.9	14.84	12.61	1.4	11.15	11.15	3.4	27.15	18.56	2.7	21.87	15.82	1.9	14.86	12.38
	LOW	802	14	2.0	13.96	11.79	1.7	11.94	11.14	1.2	8.46	8.46	2.8	19.80	15.00	2.1	14.77	12.19	1.6	11.29	11.29	3.9	27.49	18.46	3.3	22.94	16.19	2.1	14.60	11.84
			16	1.6	13.13	11.36	1.4	11.07	10.64	0.9	7.33	7.33	2.2	17.40	13.50	1.7	13.83	11.69	1.3	10.40	10.40	3.2	25.51	17.34	2.6	20.58	14.80	1.7	13.85	11.48
HYDCWH36	HIGH	1192	14	3.7	26.09	21.04	3.2	22.44	19.94	2.3	15.98	15.98	5.3	37.21	26.96	3.9	27.65	21.80	3.0	21.23	21.23	7.4	51.69	33.39	6.1	43.14	29.18	3.9	27.31	21.21
			16	3.1	24.66	20.41	2.6	20.85	19.16	1.7	13.82	13.82	4.1	32.58	24.22	3.2	25.94	21.00	2.5	19.62	19.62	6.0	47.96	31.37	4.8	38.62	26.65	3.2	25.99	20.69
	MED	1105	14	3.5	24.77	19.88	3.0	21.13	18.70	2.2	15.06	15.06	5.0	35.29	25.45	3.7	26.26	20.60	2.9	20.00	20.00	7.0	48.95	31.51	5.8	40.92	27.56	3.7	25.71	19.88
			16	2.9	23.22	19.15	2.5	19.64	17.99	1.6	13.02	13.02	3.8	30.89	22.86	3.0	24.43	19.71	2.3	18.49	18.49	5.7	45.49	29.64	4.6	36.69	25.21	3.1	24.48	19.42
	LOW	1045	14	3.4	23.83	19.05	2.9	20.21	17.84	2.1	14.40	14.40	4.8	33.92	24.39	3.6	25.23	19.73	2.7	19.12	19.12	6.7	46.99	30.17	5.6	39.33	26.41	3.5	24.58	18.95
			16	2.8	22.21	18.26	2.3	18.79	17.16	1.6	12.45	12.45	3.7	29.73	21.93	2.9	23.37	18.79	2.2	17.70	17.70	5.4	43.72	28.40	4.4	35.30	24.18	2.9	23.41	18.52
HY DCWH42	HIGH	1331	14	4.3	30.12	24.12	3.6	25.46	22.51	2.6	18.26	18.26	6.0	42.50	30.66	4.5	31.87	24.97	3.4	24.10	24.10	8.4	58.68	37.80	7.0	49.14	33.11	4.4	30.87	23.87
			16	3.5	28.02	23.07	3.0	23.77	21.72	2.0	16.02	16.02	4.7	37.46	27.69	3.7	29.43	23.71	2.8	22.38	22.38	6.8	54.66	35.62	5.5	44.27	30.41	3.7	29.45	23.34
	MED	1251	14	4.1	28.83	23.00	3.5	24.25	21.36	2.5	17.40	17.40	5.8	40.69	29.25	4.3	30.50	23.80	3.3	22.94	22.94	8.0	56.10	36.04	6.7	47.04	31.59	4.2	29.38	22.64
			16	3.3	26.68	21.89	2.8	22.66	20.63	1.9	15.27	15.27	4.5	35.90	26.44	3.5	28.02	22.50	2.7	21.33	21.33	6.5	52.31	33.99	5.3	42.43	29.04	3.5	28.04	22.16
	LOW	1105	14	3.8	26.45	20.94	3.1	21.94	19.20	2.3	15.79	15.79	5.3	37.24	26.58	4.0	28.02	21.69	3.0	20.78	20.78	7.3	51.20	32.72	6.1	43.05	28.73	3.8	26.57	20.35
			16	3.0	24.17	19.71	2.6	20.53	18.58	1.7	13.84	13.84	4.1	32.95	24.08	3.2	25.37	20.25	2.4	19.34	19.34	6.0	47.86	30.92	4.8	38.91	26.45	3.2	25.39	19.95

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change without notice.

DISTRICT COOLING PERFORMANCE

High Static

MODEL	Speed	Air Flow		PERFORMANCE DATA - 4 ROWS COOLING COIL BY TEMPERATURE RISE (°F)																											
				Air on DBT/WBT 71 °F/60°F								Air on DBT/WBT 75 °F/63°F								Air on DBT/WBT 80 °F/67 °F											
				42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT			42 °F EWT			45 °F EWT			50 °F EWT		
		CFM	ΔT	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC	GPM	TC	SC
HY DCWH48	HIGH	1474	14	4.6	32.23	26.00	3.9	27.58	24.52	2.8	19.77	19.77	6.5	45.59	33.09	4.9	34.09	26.90	3.7	26.09	26.09	9.0	63.09	40.84	7.5	52.74	35.74	4.8	33.47	26.02
			16	3.8	30.34	25.11	3.2	25.72	23.63	2.2	17.30	17.30	5.0	40.16	29.87	4.0	31.88	25.82	3.0	24.21	24.21	7.3	58.67	38.44	5.9	47.39	32.76	4.0	31.91	25.42
	MED	1331	14	4.3	30.12	24.12	3.6	25.46	22.51	2.6	18.26	18.26	6.0	42.50	30.66	4.5	31.87	24.97	3.4	24.10	24.10	8.4	58.68	37.80	7.0	49.14	33.11	4.4	30.87	23.87
			16	3.5	28.02	23.07	3.0	23.77	21.72	2.0	16.02	16.02	4.7	37.46	27.69	3.7	29.43	23.71	2.8	22.38	22.38	6.8	54.66	35.62	5.5	44.27	30.41	3.7	29.45	23.34
	LOW	1251	14	4.1	28.83	23.00	3.5	24.25	21.36	2.5	17.40	17.40	5.8	40.69	29.25	4.3	30.50	23.80	3.3	22.94	22.94	8.0	56.10	36.04	6.7	47.04	31.59	4.2	29.38	22.64
			16	3.3	26.68	21.89	2.8	22.66	20.63	1.9	15.27	15.27	4.5	35.90	26.44	3.5	28.02	22.50	2.7	21.33	21.33	6.5	52.31	33.99	5.3	42.43	29.04	3.5	28.04	22.16
HY DCWH60	HIGH	1853	14	5.1	36.14	30.08	4.4	30.70	28.28	3.0	20.86	20.86	7.0	49.29	36.83	5.4	38.07	30.98	4.1	29.05	29.05	10.0	70.53	46.55	8.2	57.86	40.20	5.5	38.23	30.52
			16	4.2	33.50	28.69	3.5	27.74	26.50	1.7	13.41	13.41	5.2	41.33	31.90	4.4	35.61	29.75	3.3	26.08	26.08	8.0	64.22	43.05	6.3	50.35	35.85	4.5	35.87	29.38
	MED	1731	14	4.9	34.27	28.42	4.2	29.11	26.72	2.8	19.73	19.73	6.7	47.09	35.04	5.2	36.11	29.28	3.9	27.55	27.55	9.6	67.33	44.28	7.9	55.28	38.25	5.2	36.26	28.85
			16	4.0	31.75	27.11	3.3	26.27	25.03	1.6	12.99	12.99	4.9	39.48	30.35	4.2	33.77	28.12	3.1	24.70	24.70	7.6	61.36	40.98	6.0	48.15	34.14	4.3	34.02	27.78
	LOW	1606	14	4.6	32.31	26.70	3.9	27.43	25.09	2.6	18.52	18.52	6.4	44.69	33.11	4.9	34.04	27.49	3.7	25.97	25.97	9.1	63.91	41.87	7.5	52.55	36.21	4.9	34.18	27.10
			16	3.7	29.91	25.45	3.1	24.71	23.47	1.6	12.54	12.54	4.7	37.49	28.70	4.0	31.83	26.42	2.9	23.24	23.24	7.3	58.30	38.78	5.7	45.81	32.34	4.0	32.08	26.11
HY DCWH72	HIGH	2117	14	5.7	40.02	33.56	4.8	34.00	31.54	3.3	23.19	23.19	7.7	53.80	40.55	6.0	42.16	34.56	4.6	32.16	32.16	11.0	77.08	51.25	9.0	63.15	44.24	6.0	42.34	34.04
			16	4.6	37.13	32.00	3.8	30.78	29.58	2.3	18.21	18.21	5.7	45.40	35.31	4.9	39.43	33.16	3.6	28.92	28.92	8.7	70.15	47.36	6.8	54.84	39.37	5.0	39.71	32.73
	MED	1980	14	5.4	38.03	31.77	4.6	32.31	29.87	3.1	22.00	22.00	7.3	51.50	38.64	5.7	40.06	32.72	4.4	30.57	30.57	10.5	73.75	48.85	8.6	60.42	42.15	5.7	40.23	32.23
			16	4.4	35.27	30.30	3.6	29.23	28.00	1.7	13.82	13.82	5.4	43.17	33.46	4.7	37.48	31.41	3.4	27.47	27.47	8.4	67.09	45.14	6.6	52.55	37.57	4.7	37.74	31.01
	LOW	1853	14	5.1	36.14	30.08	4.4	30.70	28.28	3.0	20.86	20.86	7.0	49.29	36.83	5.4	38.07	30.98	4.1	29.05	29.05	10.0	70.53	46.55	8.2	57.86	40.20	5.5	38.23	30.52
			16	4.2	33.50	28.69	3.5	27.74	26.50	1.7	13.41	13.41	5.2	41.33	31.90	4.4	35.61	29.75	3.3	26.08	26.08	8.0	64.22	43.05	6.3	50.35	35.85	4.5	35.87	29.38

Notes: - TC: Total Cooling (BTU/Hr)x1000; SC: Sensible Cooling (BTU/Hr)x1000

- As a result of continuous development and reasearch, design and specifications are subject to change without notice.

AIR FLOW CHART

Air Flow Performance Data - 2 Row Coil						
MODEL	SPEED	External Static Pressure				
		0	0.05	0.1	0.15	0.2
		Air Flow (CFM)				
EDNW09	High	427	397	370	327	286
	Med	383	358	335	295	284
	Low	350	324	300	264	269

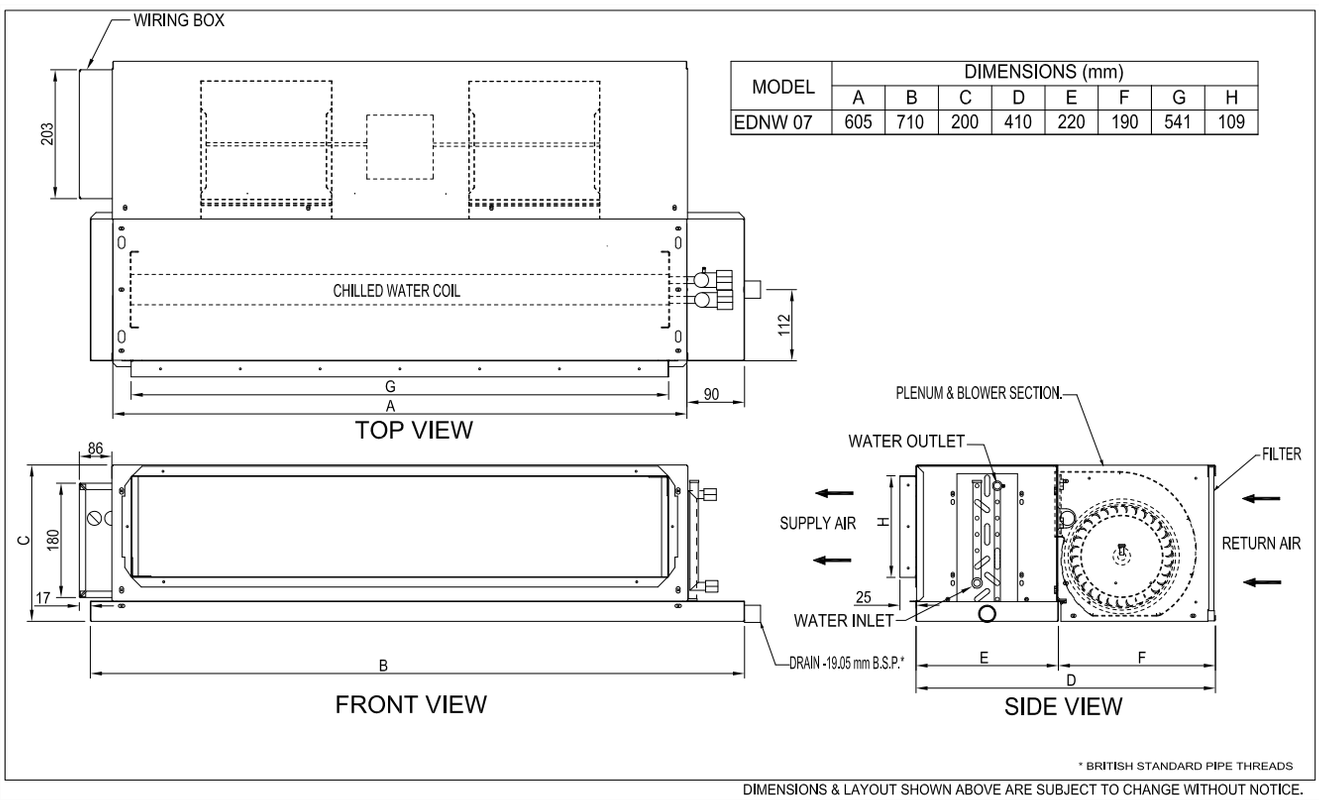
Air Flow Performance Data - 3 Row Coil									
MODEL	SPEED	External Static Pressure (inwg)							
		0	0.05	0.1	0.15	0.2	0.3	0.4	0.5
		Air Flow (CFM)							
HY EDNW07	High	241	225	211	195	170			
	Med	239	222	206	189	163			
	Low	232	216	200	183	156			
HY EDNW12	High	435	418	402	344	302			
	Med	427	397	370	327	286			
	Low	407	376	347	305	270			
HY EDNW18	High	732	697	664	638	585			
	Med	671	642	614	574	560			
	Low	640	611	584	550	511			
HY EDNW24	High	825	786	749	710	658			
	Med	784	749	716	676	636			
	Low	732	697	664	638	585			
HY EDNW30	High	1029	999	969	932	890			
	Med	924	896	869	855	820			
	Low	858	832	807	789	761			
HY ESNW24	High	924	896	869	855	820	758	682	621
	Med	858	832	807	789	761	701	623	563
	Low	801	774	748	724	705	645	571	511
HY ESNW30	High	1089	1064	1040	991	955	914	848	772
	Med	1029	999	969	932	890	849	780	706
	Low	924	896	869	855	820	758	682	621
HY ESNW36	High	1467	1401	1338	1264	1214	1147	1078	1003
	Med	1378	1316	1257	1188	1140	1077	1013	942
	Low	1254	1217	1180	1135	1078	996	952	897
HY ESNW42	High	1725	1656	1590	1514	1470	1397	1324	1287
	Med	1540	1471	1405	1327	1274	1204	1132	1053
	Low	1378	1316	1257	1188	1140	1077	1013	942
HY ESNW48	High	1949	1892	1836	1730	1643	1545	1468	1394
	Med	1725	1656	1590	1514	1470	1397	1324	1287
	Low	1540	1471	1405	1327	1274	1204	1132	1053
HY ENW60	High	2194	2134	2076	2017	1958	1847	1735	1653
	Med	2044	1987	1932	1878	1824	1722	1621	1457
	Low	1876	1829	1782	1728	1674	1572	1471	1320
HY ENW72	High	2489	2413	2339	2280	2221	2109	1997	1901
	Med	2363	2293	2225	2167	2109	1999	1888	1799
	Low	2194	2134	2076	2017	1958	1847	1735	1653

Air Flow Performance Data - 4 Row Coil									
MODEL	SPEED	External Static Pressure (inwg)							
		0	0.05	0.1	0.15	0.2	0.3	0.4	0.5
		Air Flow (CFM)							
HY EDNW12	High	417	391	367	318	277			
	Med	405	372	342	302	261			
	Low	386	353	322	283	245			
HY EDNW18	High	697	664	632	607	556			
	Med	638	611	584	546	507			
	Low	609	582	555	524	487			
HY EDNW24	High	785	748	712	675	625			
	Med	744	712	681	644	590			
	Low	697	664	632	607	556			
HY EDNW30	High	995	966	938	892	884			
	Med	904	877	850	823	802			
	Low	840	814	789	759	744			
HY ESNW24	High	904	877	850	823	802	742	674	604
	Med	840	814	789	759	744	685	618	547
	Low	784	757	731	697	690	631	569	497
HY ESNW30	High	1054	1030	1006	959	947	885	814	747
	Med	995	966	938	892	884	822	754	683
	Low	904	877	850	823	802	742	674	604
HY ESNW36	High	1360	1326	1292	1241	1192	1102	1043	970
	Med	1281	1249	1218	1169	1105	1039	982	914
	Low	1212	1182	1152	1106	1045	983	930	865
HY ESNW42	High	1519	1481	1444	1386	1331	1231	1165	1083
	Med	1428	1392	1357	1303	1251	1157	1095	1018
	Low	1281	1249	1218	1169	1105	1039	982	914
HY ESNW48	High	1651	1609	1569	1506	1474	1338	1266	1177
	Med	1519	1481	1444	1386	1331	1231	1165	1083
	Low	1428	1392	1357	1303	1251	1157	1095	1018
HY ESNW60	High	2002	1974	1947	1893	1853	1774	1662	1547
	Med	1875	1847	1819	1766	1731	1644	1533	1388
	Low	1757	1724	1692	1647	1606	1513	1406	1257
HY ESNW72	High	2263	2229	2196	2146	2117	2013	1907	1796
	Med	2129	2102	2075	2021	1980	1901	1787	1678
	Low	2002	1974	1947	1893	1853	1774	1662	1547

Notes: - As a result of continuous development and research, design and specifications are subject to change without notice.
- Read Models EDNW as DCWL, and ESNW as DCWH, for district cooling models for ΔT=14 and above.
- Airflow measured at wet coil.

GENERAL ARRANGEMENT DRAWINGS

Low Static - 7K

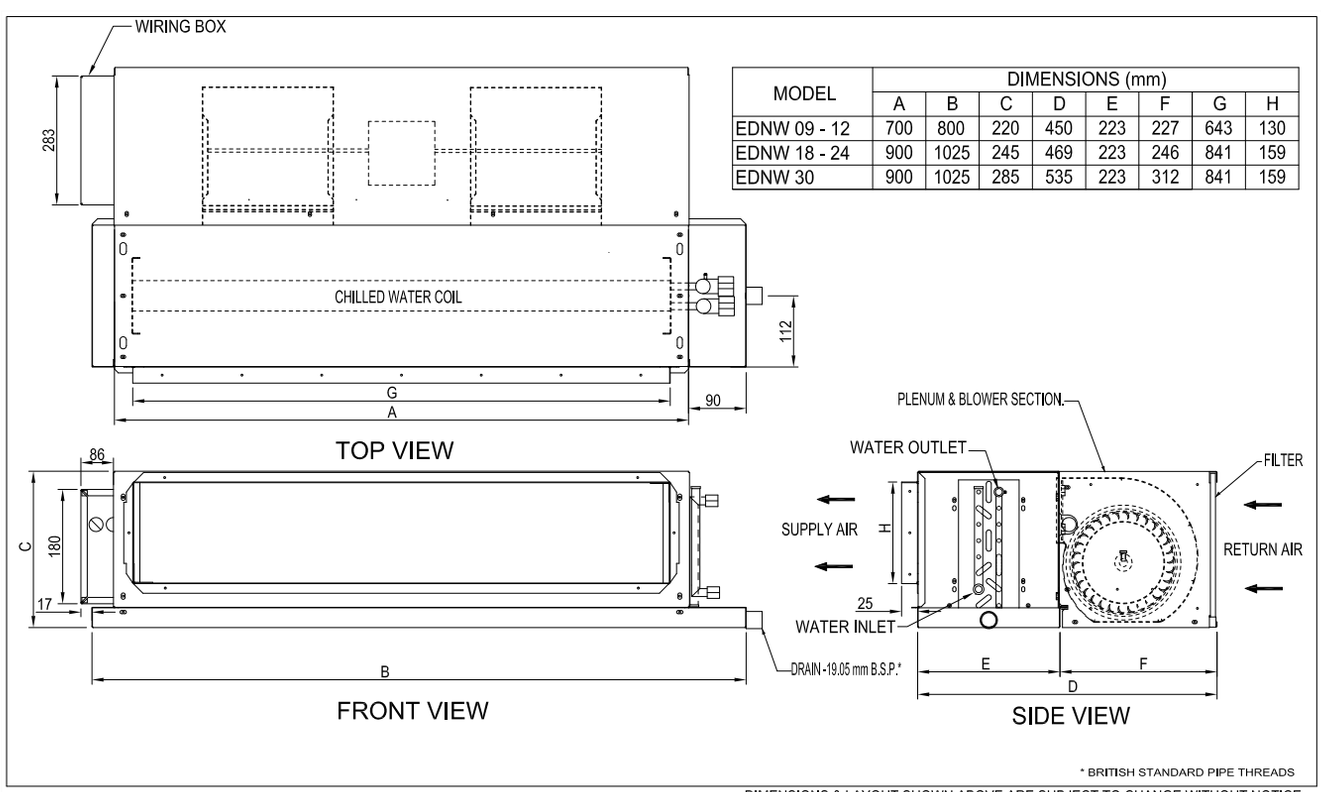


MODEL	DIMENSIONS (mm)							
	A	B	C	D	E	F	G	H
EDNW 07	605	710	200	410	220	190	541	109

* BRITISH STANDARD PIPE THREADS

DIMENSIONS & LAYOUT SHOWN ABOVE ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Low Static - 9K, 12K, 18K, 24K & 30K



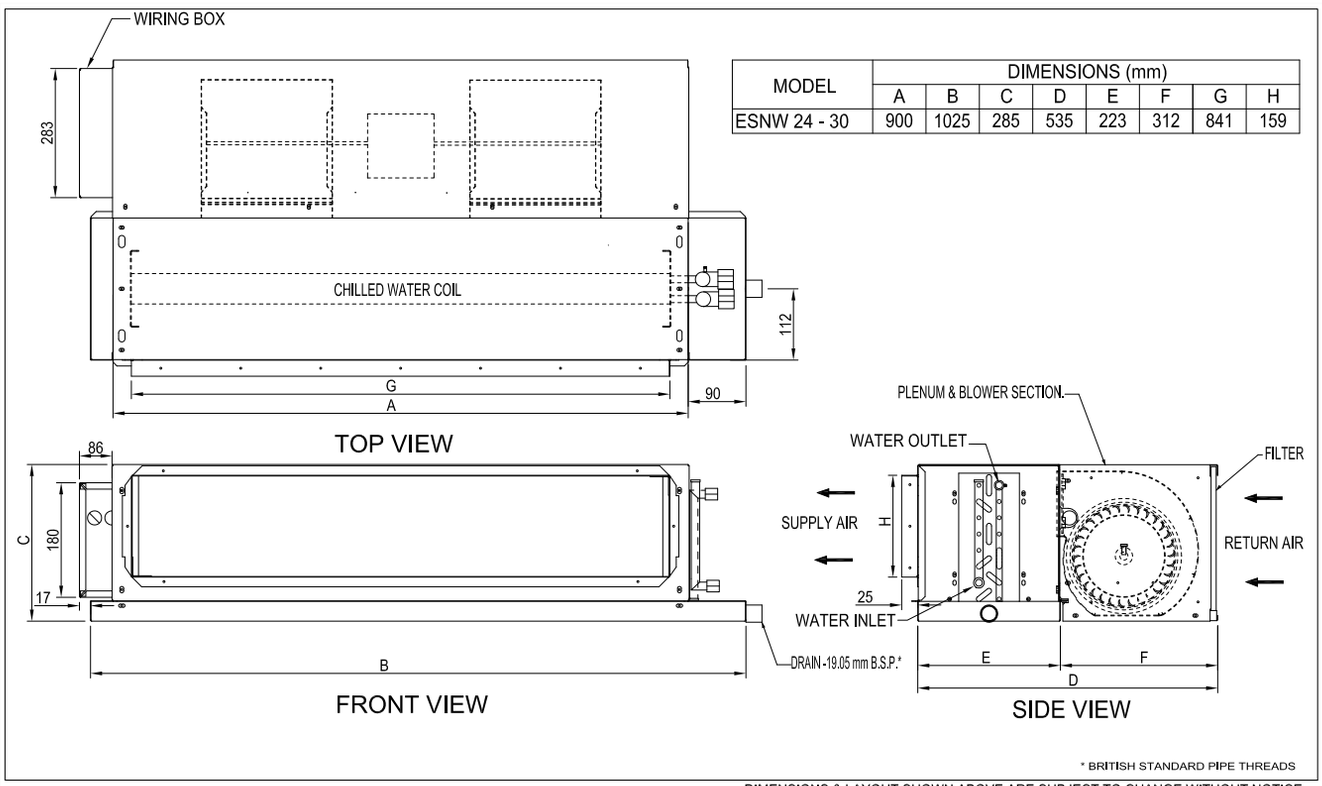
MODEL	DIMENSIONS (mm)							
	A	B	C	D	E	F	G	H
EDNW 09 - 12	700	800	220	450	223	227	643	130
EDNW 18 - 24	900	1025	245	469	223	246	841	159
EDNW 30	900	1025	285	535	223	312	841	159

* BRITISH STANDARD PIPE THREADS

DIMENSIONS & LAYOUT SHOWN ABOVE ARE SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL ARRANGEMENT DRAWINGS

High Static - 24K - 30K

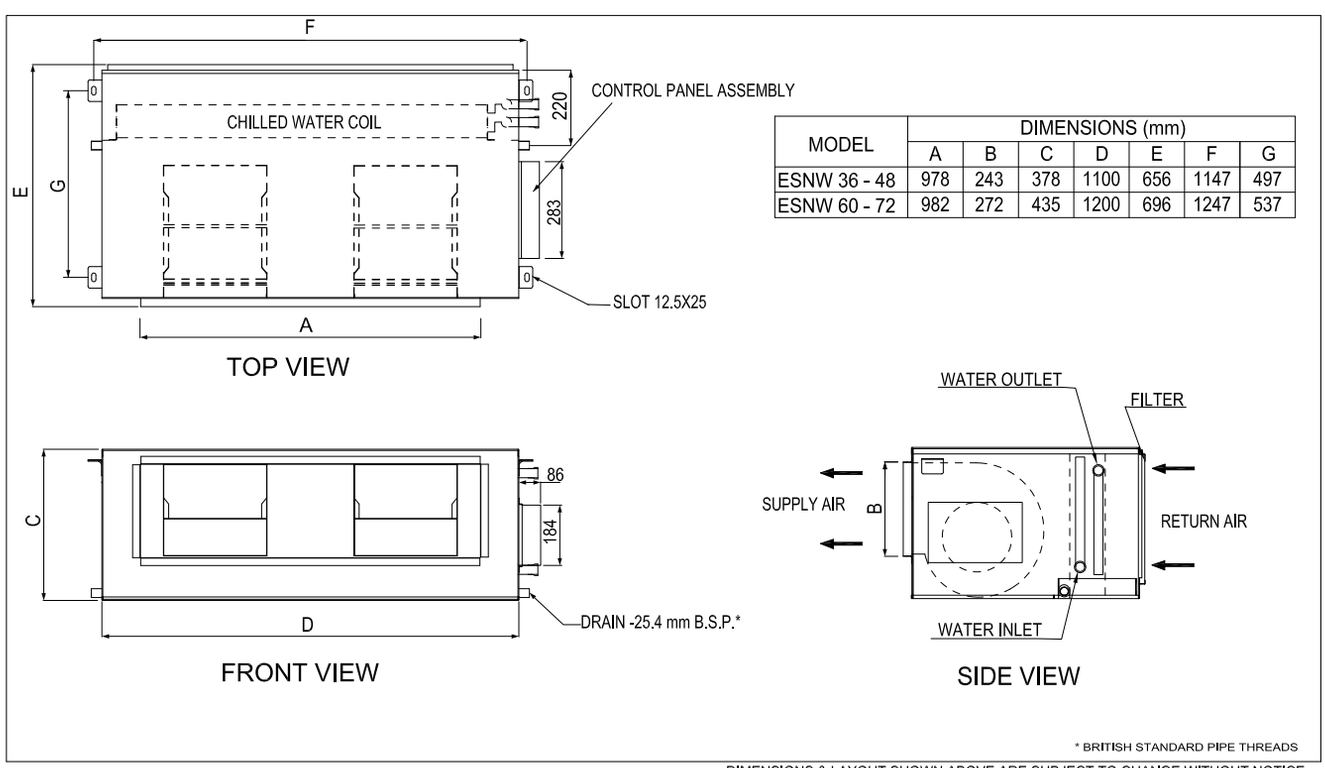


MODEL	DIMENSIONS (mm)							
	A	B	C	D	E	F	G	H
ESNW 24 - 30	900	1025	285	535	223	312	841	159

* BRITISH STANDARD PIPE THREADS

DIMENSIONS & LAYOUT SHOWN ABOVE ARE SUBJECT TO CHANGE WITHOUT NOTICE.

High Static - 36K - 48K - 60K - 72K



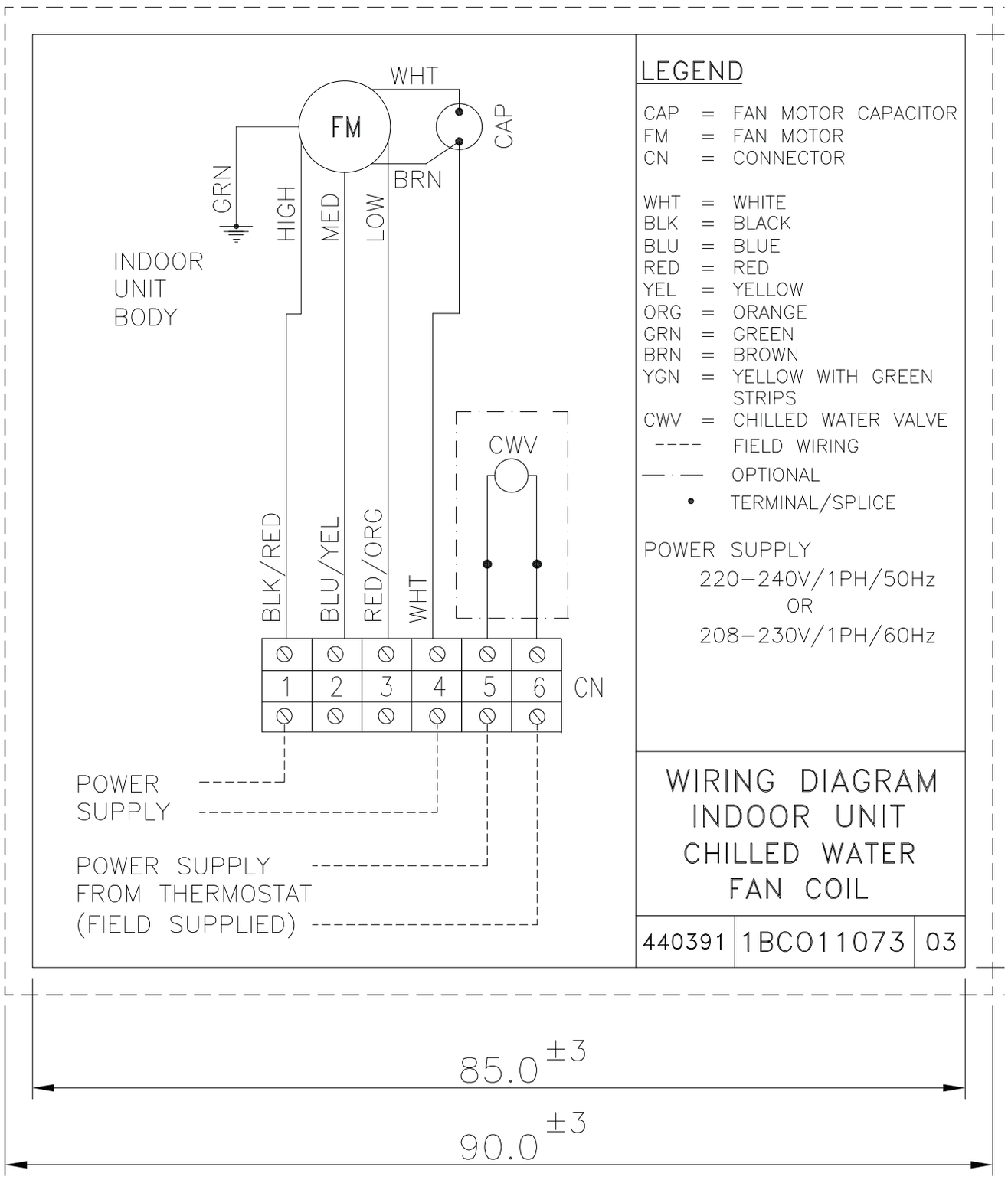
MODEL	DIMENSIONS (mm)						
	A	B	C	D	E	F	G
ESNW 36 - 48	978	243	378	1100	656	1147	497
ESNW 60 - 72	982	272	435	1200	696	1247	537

* BRITISH STANDARD PIPE THREADS

DIMENSIONS & LAYOUT SHOWN ABOVE ARE SUBJECT TO CHANGE WITHOUT NOTICE.

WIRING DIAGRAM

7K - 9K - 12K - 18K - 24K - 30K - 36K - 42K - 48K - 60K - 72K



09

WATER TANK CHILLER UNIT

HYUNDAI

GENUINE PRODUCT OF
HYUNDAI CORPORATION



WATER TANK

CHILLER

Capacity 18K & 36K

50Hz

R410A

PLATE HEAT EXCHANGER AND PUMP



صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

"Licensed by Hyundai Corporation Holdings, Korea".

WATER TANK CHILLERS

Features

- Plate Heat Exchanger made of SS316 to protect against corrossion.
- Easy installation, economical operation & maintenance.
- Compatible with all types of existing tanks.
- Automatic motor and compressor shut-off valve at set temperature.
- Compact & energy saving design.
- Micro processor based control for
  - Temperature adjustment
  - Cool mode selection
- Total sealed motor for high ambient conditions.
- Powder coated panel wherever necessary for long lasting outdoor life.

TECHNICAL SPECIFICATIONS

Model				HY-18K - Rotary	HY-18K - Scroll	HY-24K - Rotary	HY-24K - Scroll	HY-36K - Scroll
Nominal Capacities		Cooling @ 35°C	Btu/h	18000	18,000	24,000	24,000	36,000
Power Consumption			Watts	1735	1935	2130	2195	3125
Running Current			Amps	7.94	8.86	8.80	9.07	14.30
Nominal Capacities		Cooling @ 46°C	Btu/h	15200	15500	20600	20400	30200
Power Consumption			Watts	1995	2225	2428	2502	3594
Running Current			Amps	9.13	10.18	11.11	11.45	16.45
Power Supply			V/Ph/Hz	220 ~ 240 /1/50				
Tank Capacity			Ltrs	2000	2000	2800	2800	5000
Refrigerant Type				R410A				
Compressor Type				Rotary	Scroll	Rotary	Scroll	Scroll
Evaporator		Type		PHE (Brazed plate heat exchanger)				
		Material		SS316				
		Qty		1	1	1	1	1
Condenser		No. of Rows / FPI		2 / 20	2/ 20	3 / 20	3 / 20	3 / 20
		Tube Dia / Type		7mm / IGT	7mm / IGT	7mm / IGT	7mm / IGT	7mm / IGT
Condenser Fan & Motor		Fan dia / Qty		1 / 22"	1 / 22"	1 / 22"	1 / 22"	1 /22"
		Motor qty		1	1	1	1	1
Chilled water connection		Inlet connection (NB)		1"	1"	1"	1"	1"
		Outlet connection (NB)		1"	1"	1"	1"	1"
Max. ambient Temp Operation		°C		52	52	52	52	52
Features				Micro processor based controller, High pressure switch, Low pressure switch, Flow switch and contactor, (Pump - optional)				
Dimensions	Unpacked(With grill)	(WxDxH)mm		1150 x 415 x 800				
	Packed	(WxDxH)mm		1350 x 490 x 820				
Weight	Net	(Kg)		56	58	62	64	65
	Gross	(Kg)		61	63	67	69	70
Laodability		CONTAINER SIZE	40'	126	126	126	126	126

- ► Tank capacity based on water inlet temp of 40 °C / water outlet temperature 26°C
- ► Pull down time - 16 hrs.
- ► Pump selection is based on 15mtr head.
- ► AGM has a policy of continuous product improvement, design and specifications are subjected to change without prior notice.



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16/25/2022

10

WATER TANK COOLER UNIT

HYUNDAI

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WATER

TANK COOLER

Capacity 18K-36K

HY TXR - 50Hz

R410A





صنع في البحرين
Made in Bahrain

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

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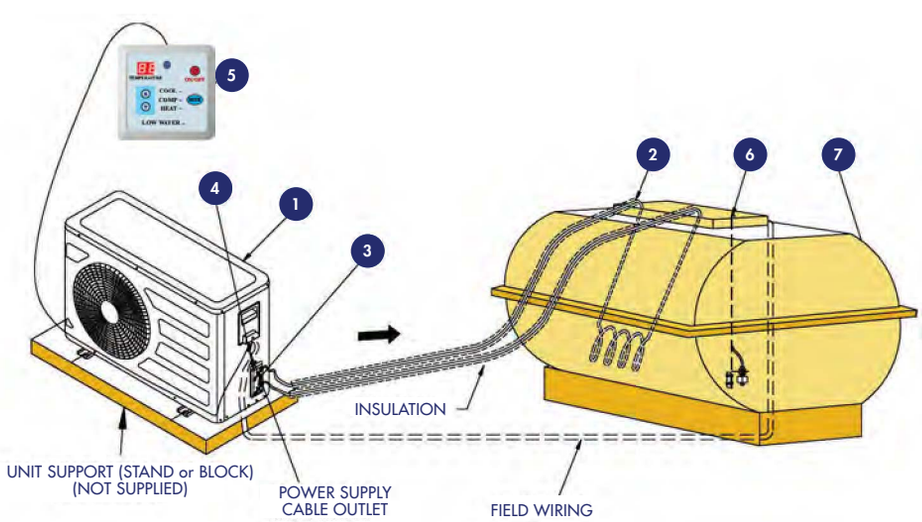
WATER TANK COOLER

Features

- Easy installation, economical operation & maintenance.
- Compatible with all types of existing tanks.
- Compact & energy saving design. Automatic motor and compressor shut-off at preset water levels.
- Cables & tubes - protected & insulated against heat, dust & humidity.
- Micro processor based control for
  - Temperature adjustment
  - Water level sensing
- Total sealed motor for high ambient conditions.
- Powder coated panel wherever necessary for long lasting outdoor life.

TECHNICAL SPECIFICATIONS				
Aquachill (Water tank cooler)				
Model No.	Cool Only	HY-TXR18FC2XXAA	HY-TXR24FC2XXAA	HY-TXR36FC2XXAA
Rated Power Supply	V / Ph / Hz	220 ~ 240 / 1 / 50		
Nominal Operating Condition				
Climate Type		T3 (Max temp: 54°C)		
Ambient Temperature	Cool Mode	24°C To 54°C		
Performance (Referance Only) - T1 condition				
Rated Cooling Capacity	BTU/HR	18000	24000	36000
	Watts	5275	7034	10551
Rated Power Input	Watts	1629	2182	3130
Rated Current	Amps	7.2	9.7	13.9
Performance (Referance Only) - T3 condition				
Rated Cooling Capacity	BTU/HR	15400	20500	30600
	Watts	4513	6008	8968
Rated Power Input	Watts	1899	2558	3537
Rated Current	Amps	8.4	11.3	15.7
Compressor				
Type		Reciprocating	Reciprocating	Reciprocating
Compressor LRA	Amps	53.0	58.0	86.8
Refrigerant	Type	R410A		
Installation - Tube Size				
Suction Line	mm (Inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
Liquid Line	mm (Inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
Evaporator Coil				
Coated Cu - Evaporator coil	mm (Inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
Safety features				
Contactor for Compressor Provided.				
High Pressure (HP) Switch Provided.				
Low Pressure (LP) Switch Provided.				
Water level Float Switch provided.				
Plastic Fan Guard For Condensor Fan Provided.				
Plastic Wire Mesh For Condensor Coil Provided.				
Controller				
Microprocessor based Controller Provided.				
Dimensions - Unpacked				
Width	mm	870	870	1000
Depth	mm	320	320	415
Height	mm	550	550	800
Dimensions - Packed				
Width	mm	985	985	1126
Depth	mm	400	400	520
Height	mm	605	605	835
Shipping Data				
Net Weight	Kg	55	63	67
Gross Weight	Kg	58	66	72
Full Load Container -	40' / 45' Truck	180/--	180/--	126 / 144
Above data is for 95°F (35°C) ambient Temp. - only for Reference				
Our equipment is designed to ensure operation up to 131°F (55°C) ambient temp.				
Above dimensions and weights are excluding cooling coil.				
As a result of continuous improvement, design and specifications are subjected to change without notice.				

Item	Descrption
1	Unit
2	Cooling/Heating Coil
3	Liquid Service Valve
4	Gas Service Valve
5	Digital Thermostat (On/Off, Mode & Thermostat Control)
6	Bracket, Temperature Sensor & Water Level Sensor
7	Water Tank (Not Supplied)



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22/01/2023

11

WALL MOUNTED / FLOOR STANDING RANGE

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HYUNDAI

WALL MOUNTED RANGE

AIR CONDITIONERS

R410A



INVERTER

5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

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INRTRODUCTION

Hyundai Air conditioning are designed with cutting-edge technology and equipped with advanced Japanese compressors. It fucntions as eco-friendly machines in any desired temperature of extreme weather conditions to turn it into an ambient environment.The variety of the range in shape, size, and power capacity, allows Hyundai Air Conditioning to match all customers' demands.

Hyundai Air Conditioning is a Korean Trademark renowned for its high-quality products. Standard Arabian Business and Enterprises Company W.L.L. being the exclusive agent of Hyundai Air Conditioning in Kuwait, offers its valuable expertise in delivering the most developed Air Conditioners to consciously satisfy clients' requirements. Hyundai is undoubtedly recognized as the preferred brand name to a large array of innovative Air Conditioner efficient products. From Korea to Kuwait, Hyundai AC creates a new generation of convenience, and comfort to surely "adds value to everyday life".

INVERTER

I-PRO



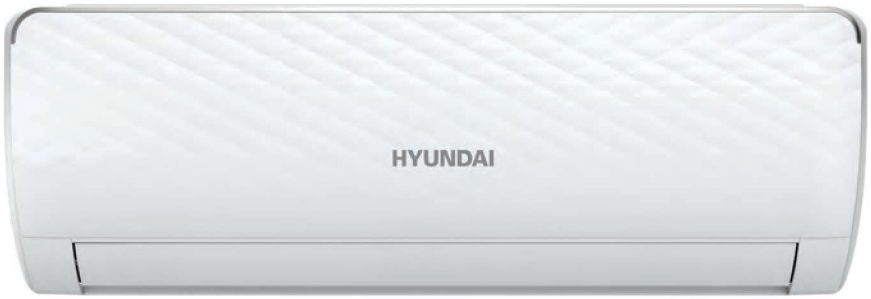
Type		HY - AC 12 I-PRO	HY - AC 18 I-PRO	HY - AC 24 I-PRO	HY - AC 30 I-PRO
Capacity					
Cooling Capacity	Btu	12500	18400	23500	30000
Heating Capacity	Btu	3696	5396	6873	7181
Electrical Parts					
Power Supply	V~,Hz,Ph	220-240V~1 Phase/ 50Hz	220-240V~1 Phase/ 50Hz	220-240V~1 Phase/ 50Hz	220-240V~1 Phase/ 50Hz
Power Input (W)	Cooling	1166	1809	2310	3055
	Heating	973 (300~1600)	1420 (300~2600)	1909 (370~3000)	2609 (350~3800)
Operating Current (A)	Cooling	5.0	7.9	13.8	13.4
	Heating	4.3 (1.2~6.8)	6.21.4~12.0	11.4 (1.6~16.5)	11.4 (1.9~16.5)
Performance					
EER	W/W	2.51	2.43	2.52	2.35
COP	W/W	3.80	3.80	3.60	3.37
Air Flow Volume (m/h)	Indoor (Cold/Heat)	580/620	1250/1250	1250/1250	1350/1350
Noise Level (dB(A))	Indoor / Outdoor	41/53	45/55	45/57	50 / 59
Net Dimension & weight					
Indoor (mm)	WxHxD	820×306×195	1100×333×222	1100×333×222	1186×340×258
Outdoor (mm)	WxHxD	795×305×549	853×349×602	967×421×803	953×433×808
Net Weight (kg)	Indoor / Outdoor	9.5 / 27	14 / 33	15/ 59	18 / 62
Packing Dimension & Gross Weight					
Indoor (mm)	WxHxD	890×380×265	1165×405×295	1165×405×295	1265×420×337
Outdoor (mm)	WxHxD	835×340×585	890×385×628	1025×480×840	1020×475×845
Gross Weight (kg)	Indoor / Outdoor	12/31	17 / /39	19 / 68	22 / 71
Applicable Area in Kuwait					
Applicable Area approximately	m^2	15~23	20~35	30~50	40~60
Compressor Type		ROTARY / GMCC	ROTARY / SANYO	ROTARY / SANYO	ROTARY / GMCC



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HYUNDAI Air Conditioning

HY-ACS 18 C RE



				HY - ACS18 C/RE
Capacity	Cooling capacity		Btu/h(T1)	18000
			Btu/h(T4)	15355
Electricl	Rated Input	Cooling	W	1550
	Rated Current	Cooling	A	6.8
Performance	EER		W/W	11.61
	Air Flow Volume (indoor)		m^2/h	1100
	Noise Level	Indoor	dB (A)	47
		outdoor	dB (A)	56
Net Dimension & weight	W*H*D	Indoor	mm	970×315×235
		outdoor	mm	825×655×310
	Net weight	Indoor	kg	12
		outdoor	kg	43
Packing Dimension & Wet	W*H*D	Indoor	mm	1047×385×317
		outdoor	mm	945×435×725
	Packing weight	Indoor	kg	16
		outdoor	kg	48
Gas Type				R410A
Loading			40/HQ	165
Compressor Brand				Highly



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HY-ACS 12/24 C REQ



				HY - ACS12 C/RE	HY - ACS24 C/RE
Capacity	Cooling capacity		Btu/h(T1)	12000	24000
			Btu/h(T4)	10236	18425
Electricl	Rated Input	Cooling	W	1020	1880
	Rated Current	Cooling	A	4.5	8.5
Performance	EER		W/W	11.76	11.7
	Air Flow Volume (indoor)		m^3/h	600	1300
	Noise Level	Indoor	dB (A)	40	49
		outdoor	dB (A)	52	57
Net Dimension & weight	W*H*D	Indoor	mm	850× 300× 198	1100×330×235
		outdoor	mm	800× 545× 315	900× 700× 350
	Net weight	Indoor	kg	10	15
		outdoor	kg	31	51
Packing Dimension & Wet	W*H*D	Indoor	mm	900×270×370	1180×400×317
		outdoor	mm	920 ×400× 620	1020×770×430
	Packing weight	Indoor	kg	12	19
		outdoor	kg	35	56
Gas Type				R410A	R410A
Loading			40/HQ	205	135
Compressor Brand				Highly	Highly



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HYUNDAI Air-Conditioning

HY-ACS 30 / 36 C RE



				HY - ACS 30 C/RE	HY - ACS 36 C/RE
Capacity	Cooling capacity		Btu/h(T1)	30000	36000
			Btu/h(T4)	23200	25250
Electricl	Rated Input	Cooling	W	2320	2600
	Rated Current	Cooling	A	11.5	12.5
Performance	EER		W/W	11.64	11.54
	Air Flow Volume (indoor)		m^3/h	1600	1650
	Noise Level	Indoor	dB (A)	53.5	52
		outdoor	dB (A)	59.5	60
Net Dimension & weight	W*H*D	Indoor	mm	1250 x 360 x 253	1250 x 360 x 253
		outdoor	mm	975 x 803 x 390	975 x 803 x 390
	Net weight	Indoor	kg	16	16
		outdoor	kg	61	65
Packing Dimension & Wet	W*H*D	Indoor	mm	1340 x 445 x 355	1340 x 445 x 355
		outdoor	mm	1105 x 890 x 495	1105 x 890 x 495
	Packing weight	Indoor	kg	22	22
		outdoor	kg	67	71
Gas Type				R410A	R410 A
Loading			40/HQ	95	95
Compressor Brand				GMCC	Highly



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HYUNDAI Air Conditioning

Inverter

HY - ACS 18 - 24 C/REV



				HY - ACS 18 C/REV	HY - ACS 24 C/REV
Capacity	Cooling capacity		Btu/h(T1)	18000	24000
			Btu/h(T4)	16377	18595
	Heatling capacity		Btu/h	18425	22178
Electricl	Rated Input	Cooling	W	1420	1800
		Heating	W	1500	1800
	Rated Current	Cooling	A	7.6	9.1
		Heating	A	8.2	9.5
Performance	EER		W/W	12.49	12.15
	COP		W/W	3.6	3.61
	Air Flow Volume (indoor)		m^3/h	1250	1300
	Noise Level	Indoor	dB (A)	49	50
		outdoor	dB (A)	57	57
Net Dimension & weight	W*H*D	Indoor	mm	1100×330×235	1100×330×235
		outdoor	mm	825×655×310	900×700×350
	Net weight	Indoor	kg	15	15
		outdoor	kg	40	48
Packing Dimension & Wet	W*H*D	Indoor	mm	1180×400×317	1180×400×317
		outdoor	mm	945×725×435	1020×770×430
	Packing weight	Indoor	kg	18	17
		outdoor	kg	44	53
Gas Type				R410A	R410A
Loading			40/HQ	165	135
Compressor Brand				Highly	Highly



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HYUNDAI Air-Conditioning

INVERTER

HY-ACF 24 C/H

Type		HY-ACF 24 C/H
Capacity		
Cooling Capacity	Btu	24000
Heating Capacity	Btu	24000
Electrical Parts		
Power Supply	V~,Hz,Ph	220V-240V~1 Phase/ 50Hz
Power Input (W)	Cooling	5569
	Heating	7034
Operating Current (A)	Cooling	10.4
	Heating	9.1
Performance		
EER	W/W	8.02
COP	W/W	3.40
Air Flow Volume (m/h)	Indoor	1100
Noise Level (dB(A))	Indoor / Outdoor	52/56
Net Dimension & weight		
Indoor (mm)	WxHxD	549×419×1853
Outdoor (mm)	WxHxD	920×380×699
Net Weight (kg)	Indoor / Outdoor	51/43.5
Packing Dimension & Gross Weight		
Indoor (mm)	WxHxD	636×490×1961
Outdoor (mm)	WxHxD	960×430×732
Gross Weight (kg)	Indoor / Outdoor	63/49.6
Applicable Area in Kuwait		
Applicable Area approximately	m^2	24
Compressor Type		Rotary Inverter / GMCC





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HYUNDAI Air Conditioning

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HY-ACF 36 C/H

Type		HY-ACF 36 C/H
Capacity		
Cooling Capacity	Btu	36000
Heating Capacity	Btu	35100
Electrical Parts		
Power Supply	V~,Hz,Ph	220V-240V~1 Phase/ 50Hz
Power Input (W)	Cooling	3800
	Heating	3200
Operating Current (A)	Cooling	18.0
	Heating	17.0
Performance		
EER	W/W	2.36
COP	W/W	3.40
Air Flow Volume (m/h)	Indoor	1450
Noise Level (dB(A))	Indoor / Outdoor	52/56
Net Dimension & weight		
Indoor (mm)	WxHxD	1850×542×416
Outdoor (mm)	WxHxD	953×808×433
Net Weight (kg)	Indoor / Outdoor	51/60
Packing Dimension & Gross Weight		
Indoor (mm)	WxHxD	1946×636×490
Outdoor (mm)	WxHxD	1020×845×475
Gross Weight (kg)	Indoor / Outdoor	63/66
Applicable Area in Kuwait		
Applicable Area approximately	m^2	36
Compressor Type		Rotary Inverter / Sanyo





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HYUNDAI Air Conditioning

12

CASSETTE RANGE

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HYUNDAI CORPORATION



HYUNDAI
CASSETTE RANGE
AIR CONDITIONERS
R410A



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HYUNDAI Air Conditioning

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INRTRODUCTION

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HY-CAC 24 HE - 36 HE

Type		HY - CAC 24 / HE	HY - CAC 36 / HE
Capacity			
Cooling Capacity	Btu	24000	36000
Heating Capacity	Btu	-	-
Electrical Parts			
Power Supply	V~,Hz,Ph	220-240V/1Ph/50Hz	220-240V/1Ph/50Hz
Power Input (W)	Cooling	18880	26676
	Heating	-	-
Operating Current (A)	Cooling	10.7	13.8
	Heating		
Performance			
EER	W/W	2.442	2.417
COP	W/W	-	-
Air Flow Volume (m/h)	Indoor	1550/1200/950	1950/1750/1570
Noise Level (dB(A))	Indoor / Outdoor	48/46/44	50/48/45
Net Dimension & weight			
Indoor (mm)	WxHxD	830×830×230	830×830×290
Outdoor (mm)	WxHxD	-	-
Net Weight (kg)	Indoor / Outdoor	24	29.5
Packing Dimension & Gross Weight			
Indoor (mm)	WxHxD	925×925×285	925×925×355
Outdoor (mm)	WxHxD	-	-
Gross Weight (kg)	Indoor / Outdoor	27	34
Applicable Area in Kuwait			
Applicable Area approximately	m^2	16~30	16~30
Compressor Type		HIGHLY / GMCC	HIGHLY / GMCC



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5 YEARS FULL WARRANTY
JAPANESE TECHNOLOGY COMPRESSOR
HYUNDAI Air Conditioning

OUR CLIENTS


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وزارة التربية
MINISTRY OF EDUCATION
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جمعية المهندسين الكويتية
KUWAIT SOCIETY OF ENGINEERS
وزارة التجارة والصناعة
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شركة نفط الكويت
Kuwait Oil Company
Kuwait Petroleum Corporation and subsidiaries
مؤسسة البترول الكويتية وشركاتها
الجزيرة
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CHICKEN FINGERS
GREAT STEAK

WEBSITE

HEAD OFFICE

SERVICE CENTER

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