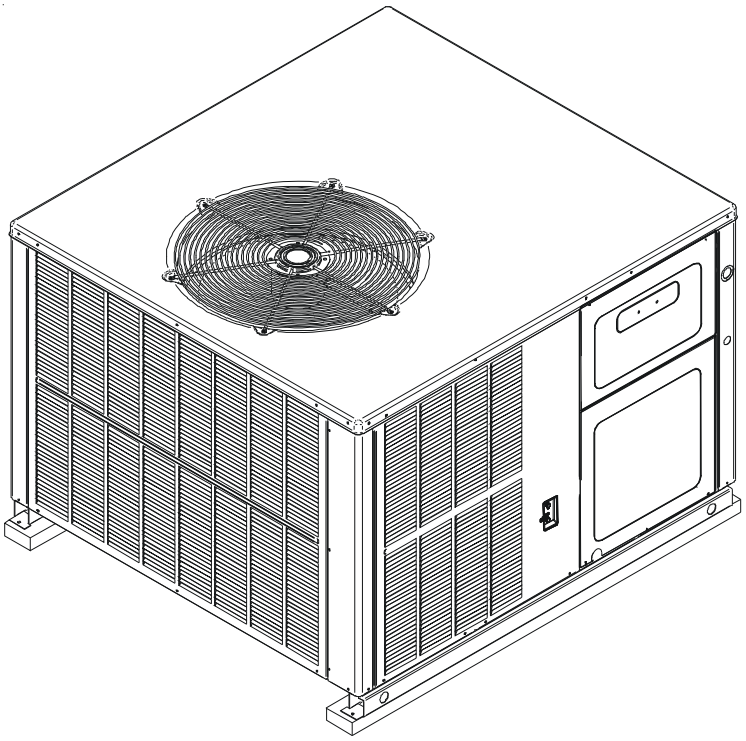
TECHNICAL MANUAL

*PC13 M Series Multi-Position Single Phase Package Air Conditioners with R-410A

- Refer to Service Manual RS6300008 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.

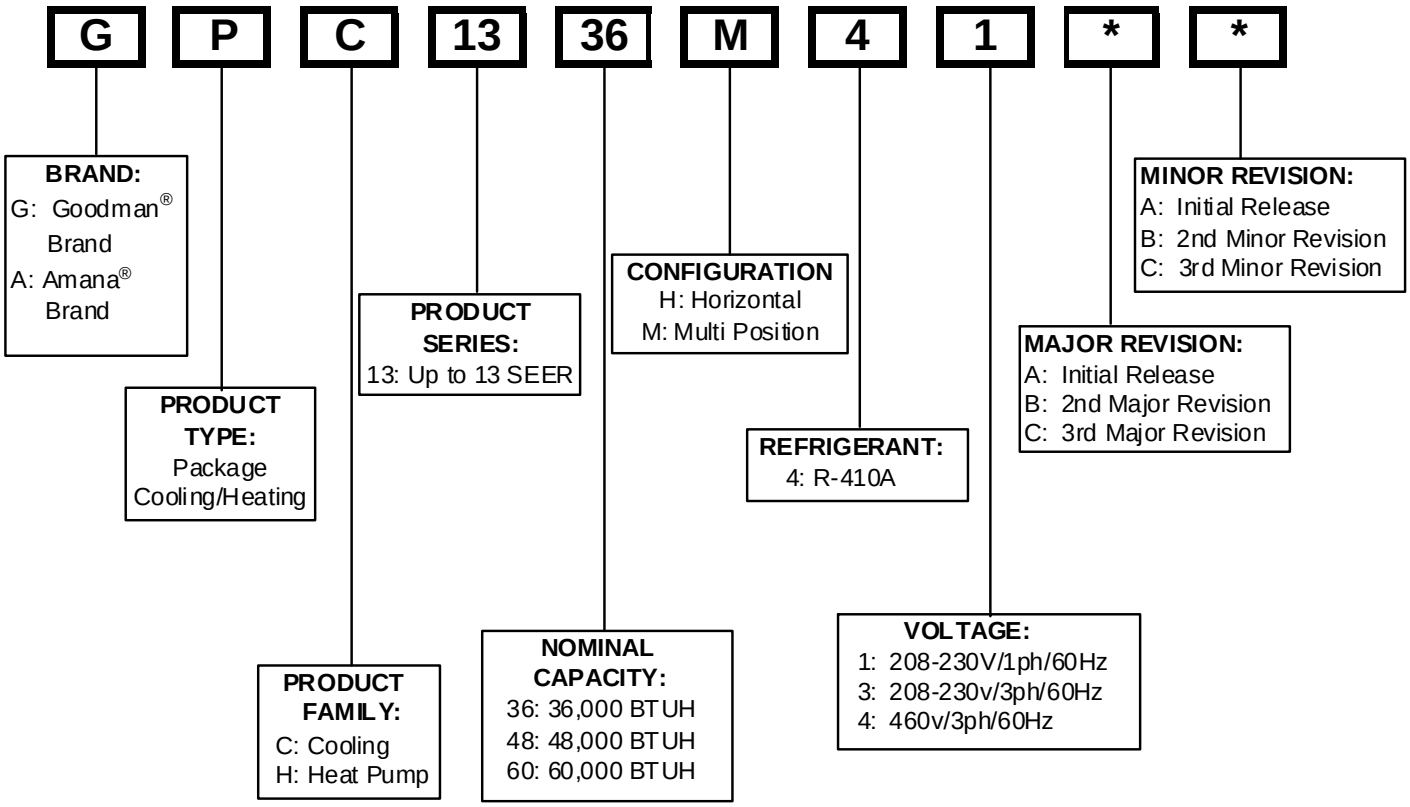


This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6322009r4
September 2013

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



⚠ WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

⚠ WARNING **Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.**

⚠ WARNING **Installation and repair of this unit should be performed ONLY by individuals meeting (at a minimum) the requirements of an "entry level technician" as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.**

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

GPC1336M41A*
GPC1348M41A*
GPC1360M41A*

GPC1336M41B*
GPC1348M41B*
GPC1360M41B*

GPC1336M41C*	APC1336M41C*
GPC1348M41C*	APC1348M41C*
GPC1360M41C*	APC1360M41C*

WARNING **The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.**

WARNING **Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.**

WARNING **To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.**

PRODUCT DESIGN

*PC Package Cooling Units are designed for outdoor installations only in either residential or light commercial applications. *PC13**M41 are single phase units and are available in 3, 4 ton and 5 ton sizes in 208/230 volts.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application, a matching Roof Curb is recommended and a horizontal duct cover kit is required.

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" PVC pipe is provided for removal of condensate water from the indoor coil. A trap must be provided to have proper condensate drainage. (Do not reduce the drain line size.)

Refrigerant flow control is achieved by use of restrictor orifices. *PC units use the FasTest Access Fitting System with a saddle that is either soldered to the suction and liquid lines or is fastened with a locking nut to the access fitting box (core) and then screwed into the saddle. **Do not remove the core from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.**

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are therefore not required for these units. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

The outdoor fan motors are single phase capacitor type motors. *PC1336M41* models have a PSC type indoor blower motor. *PC1348-60M41* units have EEM indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The EEM motors feature an integral control module.

Air for condensing (cooling cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

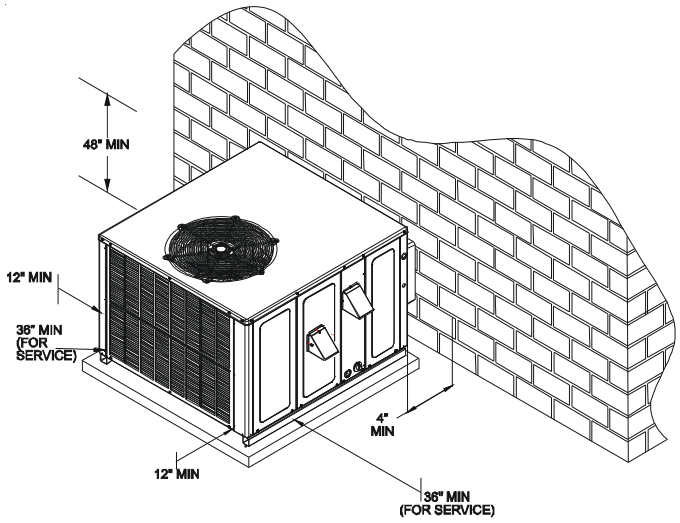
*PC13 models use the Compliant Scroll compressor; there are a number of design characteristics which are different from the traditional reciprocating compressor.

- Due to their design Scroll Compressors are inherently more tolerant of liquid refrigerant. **NOTE**: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- These Scroll compressors use "POE" or polyolester oil, which is NOT compatible with mineral oil based lubricant like 3GS. "POE" oil must be used if additional oil is required.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

PRODUCT DESIGN

Location and Clearances

NOTE: To ensure proper condensate drainage, unit must be installed in a level position.

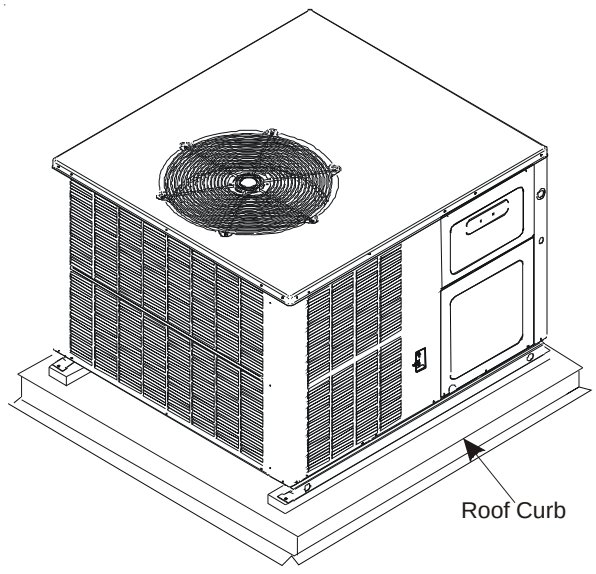


Outside Slab Installation - Multi-positional(M)

NOTE: Roof overhang should be no more than 36" and provisions made to deflect the warm discharge air out from the overhang.

NOTE: Single phase models require installation of horizontal duct kit #20464501PDGK (medium chassis) and #20464502PDGK (large chassis) when using bottom discharge.

Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.



Rooftop Installation - Multi-positional (M)

NOTE: To ensure proper condensate drainage, unit must be installed in a level position.

In installations where the unit is installed above ground level and not serviceable from the ground (Example: Roof Top installations), the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances or in their absence with the latest edition of the Uniform Mechanical Code Section 305.

NOTE: Unit can also use roof curb (and platform for leveling, where necessary) to utilize bottom discharge.

⚠ WARNING

TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.

IMPORTANT: If using bottom discharge with roof curb, ductwork should be attached to the curb prior to installing the unit.

Refer to Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

HKR ELECTRICAL DATA

Model and Heat Kit Usage	Circuit #1		Circuit #2		Actual kW & BTU at 240V
	Minimum Circuit Ampacity at 208 / 240V	Maximum Overcurrent Protection (amps) at 208 / 240V	Minimum Circuit Ampacity at 208 / 240V	Maximum Overcurrent Protection (amps) at 208 / 240V	
PC1336M41					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 52	60 / 60	----	----	9.50 / 32,400
HKR/P15A,CA	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
PC1348M41					
HKR05A,CA	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	46 / 53	60 / 60	----	----	9.50 / 32,400
HKR/P15A,CA	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR/P20A,CA	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
PC1360M41					
HKR05A,CA	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	46 / 53	60 / 60	----	----	9.50 / 32,400
HKR/P15A,CA	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR/P20A,CA	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500

Heating kW Correction Factor

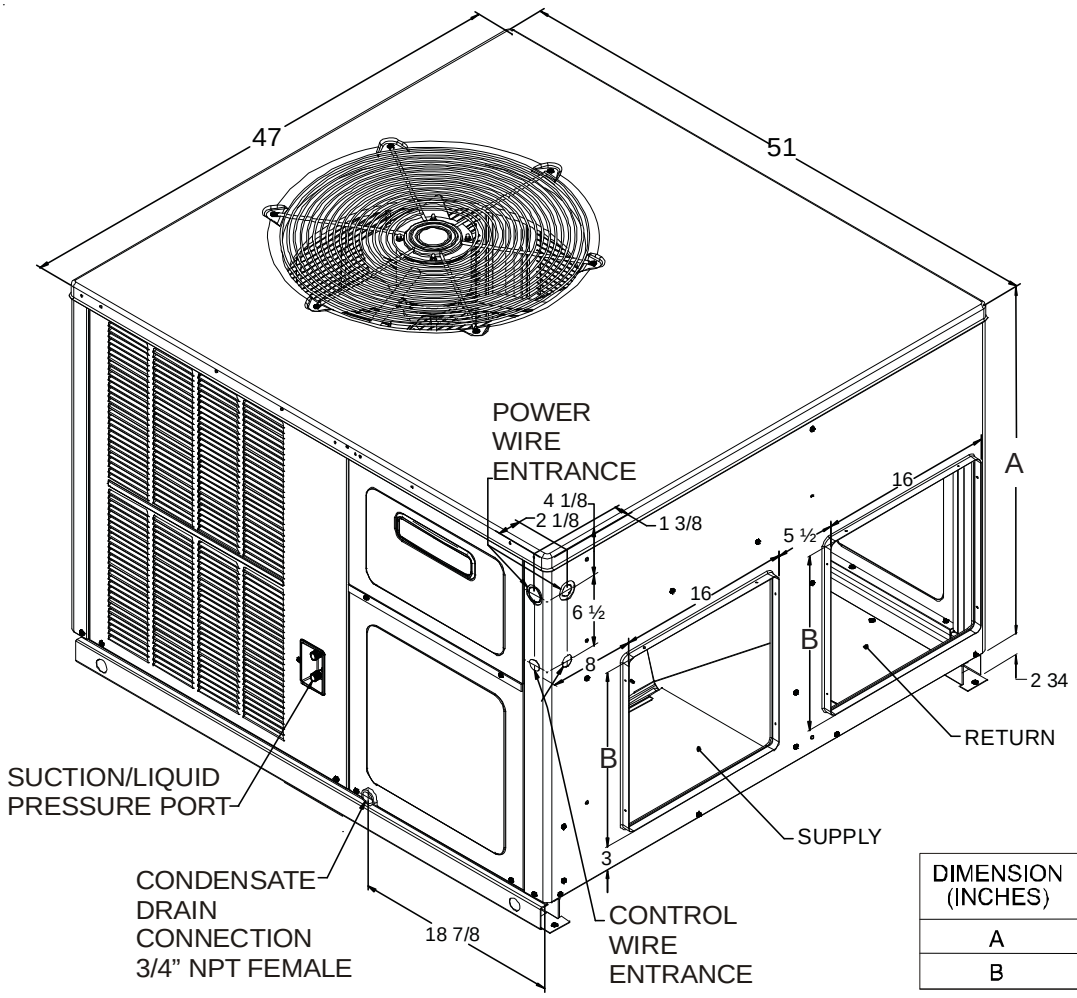
Supply Votage	240	230	220	210	208
Correction Factor	1.0	0.93	0.85	0.78	0.76

Multiply rated kW by correction factor to get actual kW

IMPORTANT NOTE: *A separate power supply is required for the HKR heater kit.*

WARNING **All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection during refrigeration cycle.**

PRODUCT DIMENSIONS *PC13[36-60]M41*



DIMENSION (INCHES)	MEDIUM	LARGE
A	32	40
B	16	18

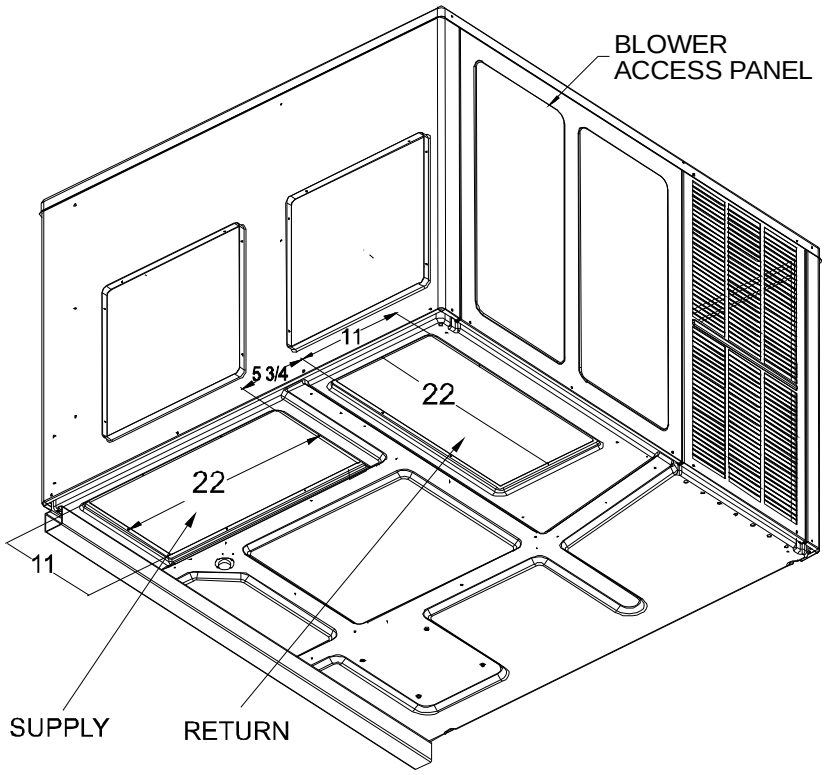
MEDIUM CHASSIS

*PC1336M4**

LARGE CHASSIS

*PC1348M4**

*PC1360M4**



PACKAGE COOLING SPECIFICATIONS *PC13[36-60]M41A*/B*

		PC1336M41	*PC1348M41*	*PC1360M41*
COOLING CAPACITY	COOLING CAPACITY, BTUH	35,000	45,500	56,000
	SEER / EER	13/10.9	13/11	13/10.9
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	21.2	27.1	35.4
	MIN CIRCUIT AMPACITY	25.3	32.1	42.0
	MAX OVERCURRENT PROTECTION	40	50	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	16.7	19.9	26.4
	LOCKED ROTOR AMPS	79.0	109.0	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	1075	1075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES)	22	22	22
	NUMBER OF BLADES	3	3	3
CONDENSER COIL	FACE AREA (SQ. FT.)	12.29	15.36	21.04
	NUMBER OF ROWS	1	1	2
	FINS PER INCH	24	24	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/3 - 3	3/4 - 5	1 - 5
	FULL LOAD AMPS	3.06	5.8	7.6
	LOCKED ROTOR AMPS	4.1	---	---
	MOTOR SPEED TAP-COOLING EEM	High	T2	T2
	RPM	910	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 9	10 x 9	10 x 9
	RATED SCFM COOLING	1,180	1,700	1,750
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	4.52	6.17	6.17
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE *	25 x 25 x 1	(2) 20 x 20 x 1	(2) 20 x 20 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE	0.070	0.076	0.087
	REFRIGERANT CHARGE R410A (OZS.)	85	120	195
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)	1/2	1/2	1/2
	SHIPPING WEIGHT (LBS.)	410	510	533
	OPERATING WEIGHT (LBS.)	400	500	523

(1) Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

IMPORTANT: While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters.

ACCESSORIES

ACCESSORIES - *PC/*PH****M MODELS	
Part Number	**Description**
OT18-60A	Outdoor Thermostat Kit w/Lockout Stat
OT/EHR18-60	Emergency Heat Relay Kit
HKR	Electric Heat Kit
PGC101/102/103	Roof Curb
DHZECNJPGCHM	Horizontal Jade Economizer - M-Series Package Unit, All Fuels, Medium Chassis, H-Series, All Chassis
DHZECNJPGCHL	Horizontal Jade Economizer - M-Series Package Unit, All Fuels, Large Chassis
PGMDD101/102	Manual 25% Fresh Air Damper Downflow Application, Small and Medium Chassis
PGMDD103	Manual 25% Fresh Air Damper Downflow Application, Large Chassis
PGMDH102	Manual 25% Fresh Air Damper Horizontal Application, Medium Chassis
PGMDH103	Manual 25% Fresh Air Damper Horizontal Application, Large Chassis
PGMDMD101/102	Motorized 25% Fresh Air Damper Downflow Application,Small and Medium Chassis
PGMDMD103	Motorized 25% Fresh Air Downflow Application, Large Chassis
PGMDMH102	Motorized 25% Fresh Air Damper Horizontal Application, Medium Chassis
PGMDMH103	Motorized 25% Fresh Air Damper Horizontal Application, Large Chassis
GPJMED102	Downflow Jade Economizer for Goodman - M-Series Packaged A/C and Heat Pump, Medium Chassis
GPJMED103	Downflow Jade Economizer for Goodman - M-Series Packaged A/C and Heat Pump, Large Chassis
GPH13MFR102	Internal Filter Rack, Medium Chassis
GPH13MFR103	Internal Filter Rack, Large Chassis
GPGHFR101-103	External Horizontal Filter Rack for Goodman/Amana Gas/Electric and Multi-position Package Units All Chassis
SQRPG101/102	Square to Round Adapter w/ 16" Round Downflow Application, Medium Chassis
SQRPG103	Square to Round Adapter w/ 18" Round Downflow Application, Large Chassis
SQRPGH101/102	Square to Round Adapter w/ 16" Round Horizontal Application, Medium Chassis
SQRPGH103	Square to Round Adapter w/ 18" Round Horizontal Application, Large Chassis
CDK36	Flush Mount Concentric Duct Kit
CDK36515	Flush Mount Concentric Duct Kit w/ Filter
CDK36530	Step Down Concentric Duct Kit
CDK36535	Step Down Concentric Duct Kit w/ Filter
CDK4872	Flush Mount Concentric Duct Kit
CDK4872515	Flush Mount Concentric Duct Kit w/ Filter
CDK4872530	Step Down Concentric Duct Kit
CDK4872535	Step Down Concentric Duct Kit w/ Filter
SPK30-60	Single Point Wiring Kit

NOTE: *Complete lineup of thermostats can be found in the Thermostat Specification Sheets.*

BLOWER PERFORMANCE DATA *PC13[36-60]M41*

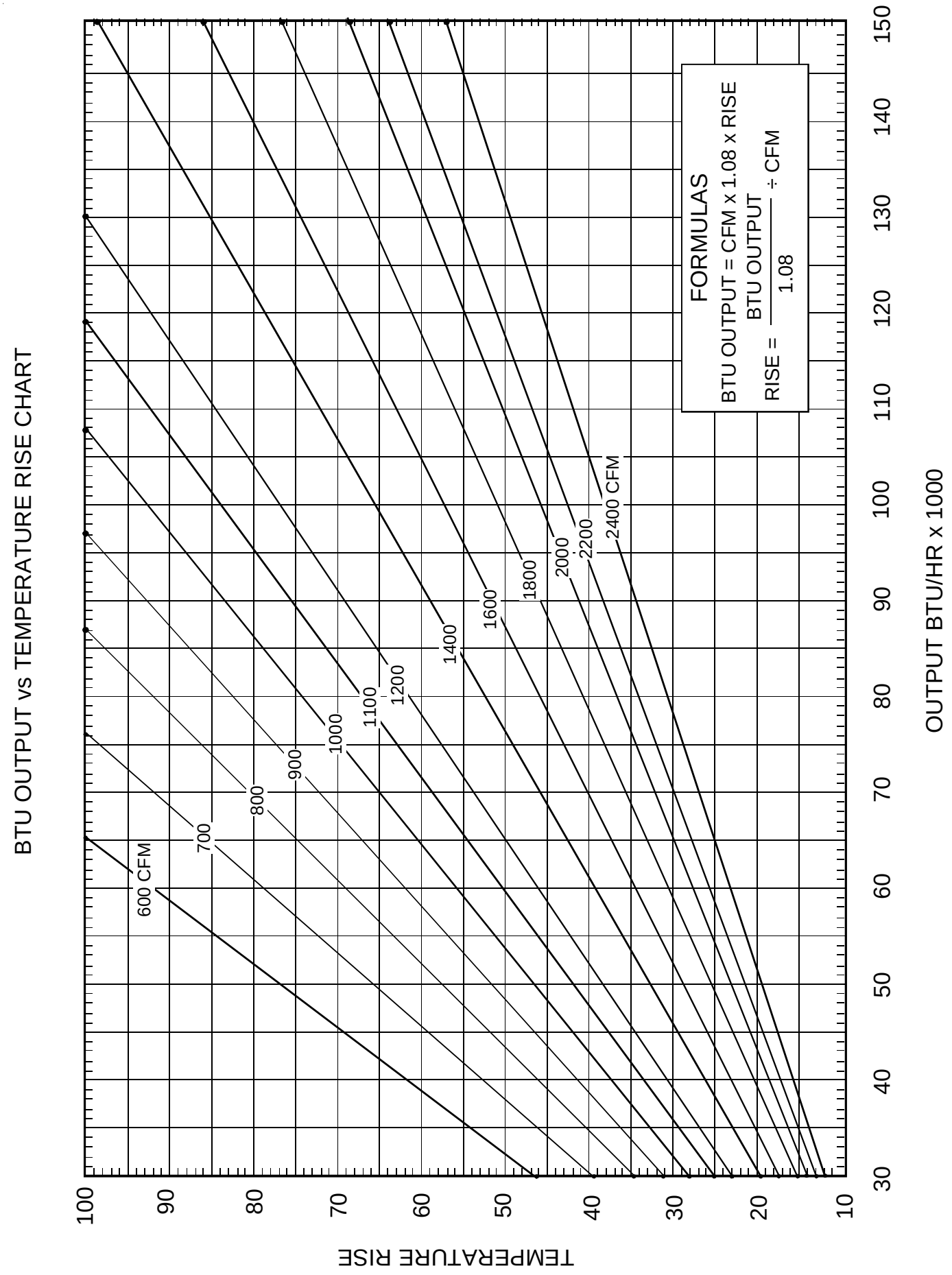
Dry Coil Data

Model	Speed	Volts		E.S.P (In. of H_2O)							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
*PC1336M41*A*/B*	LOW	230	CFM	1122	1078	1032	972	915	804	687	558
			WATTS	338	330	321	310	300	283	264	250
	MED	230	CFM	1387	1331	1264	1209	1119	1041	935	748
			WATTS	456	440	428	412	399	382	363	330
	HIGH	230	CFM	1521	1454	1388	1311	1230	1144	1055	939
			WATTS	534	521	510	490	477	461	442	420
PC1348M41A	T1 (G)	230	CFM	1,140	1,395	1,360	1,310	1,265	1,235	1,190	1,130
			WATTS	275	285	295	315	325	335	345	355
	T2 / T3	230	CFM	1,795	1,765	1,715	1,695	1,650	1,600	1,500	1,375
			WATTS	475	490	505	520	530	535	510	475
	T4 / T5	230	CFM	1,860	1,820	1,785	1,745	1,700	1,625	1,515	1,395
			WATTS	515	530	545	565	570	550	535	485
PC1360M41A	T1 (G)	230	CFM	1,755	1,720	1,685	1,645	1,615	1,570	1,530	1,465
			WATTS	420	435	455	460	475	490	500	500
	T2 / T3	230	CFM	1,850	1,820	1,775	1,735	1,705	1,675	1,610	1,495
			WATTS	480	500	515	525	535	555	545	520
	T4 / T5	230	CFM	2,180	2,125	2,050	1,975	1,875	1,800	1,655	1,530
			WATTS	770	755	725	700	675	640	575	540
PC1348M41B	T1 (G)	230	CFM	1,451	1,404	1,356	1,309	1,262	1,215	1,168	1,121
			WATTS	255	264	273	282	291	299	308	317
	T2 / T3	230	CFM	1,809	1,762	1,715	1,667	1,620	1,573	1,526	1,479
			WATTS	444	453	462	471	479	488	497	506
	T4 / T5	230	CFM	1,885	1,838	1,790	1,743	1,696	1,649	1,602	1,555
			WATTS	484	493	502	510	519	528	537	546
PC1360M41B	T1 (G)	230	CFM	1,774	1,731	1,688	1,645	1,602	1,559	1,515	1,472
			WATTS	444	453	463	473	483	493	503	512
	T2 / T3	230	CFM	1,891	1,848	1,804	1,761	1,718	1,675	1,632	1,589
			WATTS	515	525	535	544	554	564	574	584
	T4 / T5	230	CFM	2,105	2,062	2,018	1,975	1,932	1,889	1,846	1,803
			WATTS	646	656	666	676	686	696	705	715

NOTES:

- Data shown is Dry Coil. Wet Coil Pressure Drop is approximate. 0.1" H_2O, for 2 row indoor coil; 0.2" H_2O, for 3 row indoor coil; and 0.3" H_2O, for 4 row indoor coil.
- Data shown does not include filter pressure drop, approx. 0.08" H_2O.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM / TON.
- Reduce airflow by 2% for 208V operation.

BLOWER PERFORMANCE DATA



MODEL: *PC1336M41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 9 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1326	MBh	34.3	35.5	38.9	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.9	33.1	36.2	-	30.3	31.4	34.4	-	28.1	29.1	31.9	-
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.86	0.71	0.49	-	0.86	0.72	0.50	-
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.54	2.59	2.66	-	2.72	2.78	2.86	-	2.88	2.94	3.03	-	3.03	3.09	3.18	-	3.15	3.21	3.31	-	3.25	3.32	3.43	-
		AMPS	-0.4	-0.2	0.1	-	0.3	0.5	0.8	-	1.1	1.4	1.7	-	1.8	2.1	2.5	-	2.6	2.9	3.3	-	3.3	3.6	4.0	-
		HI PR	244	263	278	-	274	295	311	-	312	335	354	-	355	382	403	-	399	430	454	-	441	475	501	-
		LO PR	113	120	131	-	119	127	139	-	124	132	144	-	130	139	151	-	137	145	159	-	141	150	164	-
	1180	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-
		S/T	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.45	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	2.52	2.57	2.64	-	2.70	2.76	2.84	-	2.86	2.92	3.01	-	3.00	3.06	3.16	-	3.12	3.19	3.29	-	3.23	3.29	3.40	-
		AMPS	-0.5	-0.3	0.0	-	0.2	0.4	0.8	-	1.0	1.3	1.6	-	1.7	2.0	2.4	-	2.5	2.7	3.2	-	3.2	3.5	3.9	-
		HI PR	242	260	275	-	271	292	308	-	309	332	351	-	351	378	399	-	395	426	449	-	437	470	496	-
		LO PR	112	119	130	-	118	126	137	-	123	131	143	-	129	137	150	-	135	144	157	-	140	149	162	-
	1034	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-	25.2	26.1	28.6	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	2.46	2.51	2.58	-	2.64	2.69	2.77	-	2.79	2.85	2.94	-	2.93	2.99	3.08	-	3.05	3.11	3.21	-	3.15	3.21	3.32	-
		AMPS	-0.8	-0.6	-0.3	-	-0.1	0.2	0.5	-	0.7	1.0	1.3	-	1.4	1.7	2.1	-	2.1	2.4	2.8	-	2.8	3.1	3.5	-
		HI PR	235	252	267	-	263	283	299	-	299	322	340	-	341	367	387	-	384	413	436	-	424	456	482	-
		LO PR	108	115	126	-	115	122	133	-	119	127	138	-	125	133	145	-	131	140	152	-	136	144	158	-
75	1326	MBh	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.3	34.2	37.1	39.8	32.4	**33.4**	36.2	38.8	30.8	31.7	34.4	36.9	28.6	29.4	31.8	34.2
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.39	0.91	0.81	0.61	0.40	0.94	**0.84**	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	2.56	2.61	2.69	2.77	2.74	2.80	2.88	2.97	2.91	2.97	3.06	3.15	3.05	**3.11**	3.21	3.31	3.17	3.24	3.34	3.45	3.28	3.35	3.45	3.57
		AMPS	-0.4	-0.1	0.2	0.5	0.4	0.6	0.9	1.3	1.2	1.5	1.8	2.3	1.9	**2.2**	2.6	3.1	2.7	3.0	3.4	3.9	3.4	3.7	4.2	4.7
		HI PR	247	266	280	292	277	298	315	328	315	339	358	373	359	**386**	408	425	403	434	458	478	446	480	507	528
		LO PR	114	121	133	141	121	128	140	149	125	133	146	155	132	**140**	153	163	138	147	160	171	143	152	166	176
	1180	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	**32.4**	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.89	**0.80**	0.60	0.39	0.93	0.83	0.63	0.40	0.93	0.84	0.63	0.41
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	**20**	17	11	22	20	16	11	20	19	15	11
		KW	2.54	2.59	2.67	2.75	2.72	2.78	2.86	2.95	2.88	2.94	3.03	3.13	3.03	**3.09**	3.19	3.29	3.15	3.21	3.31	3.42	3.25	3.32	3.43	3.54
		AMPS	-0.4	-0.2	0.1	0.4	0.3	0.5	0.8	1.2	1.1	1.4	1.7	2.2	1.8	**2.1**	2.5	3.0	2.6	2.9	3.3	3.8	3.3	3.6	4.0	4.5
		HI PR	244	263	278	290	274	295	311	325	312	335	354	369	355	**382**	403	421	399	430	454	473	441	475	502	523
		LO PR	113	120	131	140	119	127	139	148	124	132	144	153	130	**139**	151	161	137	145	159	169	141	150	164	175
	1034	MBh	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	**29.9**	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6
		S/T	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	**0.77**	0.58	0.38	0.89	0.80	0.61	0.39	0.90	0.81	0.61	0.39
		Delta T	22	20	16	11	22	20	17	12	22	20	17	12	22	**21**	17	12	22	20	17	11	21	19	15	11
		KW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.82	2.87	2.96	3.05	2.95	**3.02**	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34	3.45
		AMPS	-0.7	-0.5	-0.2	0.2	0.0	0.3	0.6	0.9	0.8	1.1	1.4	1.8	1.5	**1.8**	2.2	2.6	2.2	2.5	2.9	3.4	2.9	3.2	3.7	4.2
		HI PR	237	255	269	281	266	286	302	315	302	325	344	358	344	**371**	391	408	387	417	440	459	428	461	486	507
		LO PR	110	117	127	136	116	123	134	143	120	128	140	149	126	**134**	147	156	132	141	154	164	137	146	159	170

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: *PC1336M41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 9 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1326	MBh	35.5	36.3	38.8	41.4	34.7	35.4	37.9	40.5	33.8	34.6	37.0	39.5	33.0	33.7	36.1	38.5	31.4	32.1	34.2	36.6	29.1	29.7	31.7	33.9
		S/T	0.94	0.88	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
		Delta T	23	22	19	15	23	22	19	16	23	22	19	16	23	23	20	16	22	22	19	15	20	21	18	14
		KW	2.58	2.63	2.71	2.79	2.76	2.82	2.91	3.00	2.93	2.99	3.08	3.18	3.07	3.14	3.24	3.34	3.20	3.27	3.37	3.48	3.30	3.37	3.48	3.60
		AMPS	-0.3	-0.1	0.3	0.6	0.5	0.7	1.0	1.4	1.3	1.6	1.9	2.4	2.1	2.3	2.7	3.2	2.8	3.1	3.5	4.0	3.5	3.8	4.3	4.8
		HI PR	249	268	283	295	280	301	318	331	318	342	361	377	362	390	412	429	408	439	463	483	450	485	512	534
		LO PR	115	123	134	143	122	130	141	151	127	135	147	157	133	141	154	164	139	148	162	172	144	153	167	178
	1180	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	**35.0**	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.72	0.54	0.98	0.92	**0.75**	0.56	1.00	0.95	0.78	0.58	1.00	0.96	0.78	0.58
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	24	23	20	16	22	22	19	15
		KW	2.56	2.61	2.69	2.77	2.74	2.80	2.88	2.97	2.91	2.97	3.06	3.15	3.05	3.11	**3.21**	3.31	3.17	3.24	3.34	3.45	3.28	3.35	3.45	3.57
		AMPS	-0.4	-0.1	0.2	0.5	0.4	0.6	0.9	1.3	1.2	1.5	1.8	2.3	2.0	2.2	**2.6**	3.1	2.7	3.0	3.4	3.9	3.4	3.7	4.2	4.7
		HI PR	247	266	280	292	277	298	315	328	315	339	358	373	359	386	**408**	425	403	434	458	478	446	480	507	528
		LO PR	114	121	133	141	121	128	140	149	125	133	146	155	132	140	**153**	163	138	147	160	171	143	152	166	177
	1034	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	23	20	16	23	22	19	15
		KW	2.50	2.55	2.62	2.70	2.68	2.73	2.82	2.90	2.84	2.90	2.98	3.08	2.98	3.04	3.13	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48
		AMPS	-0.6	-0.4	-0.1	0.2	0.1	0.3	0.7	1.0	0.9	1.2	1.5	1.9	1.6	1.9	2.3	2.7	2.3	2.6	3.0	3.5	3.0	3.4	3.8	4.3
		HI PR	239	258	272	284	269	289	305	318	305	329	347	362	348	374	395	412	391	421	445	464	432	465	491	513
		LO PR	111	118	129	137	117	124	136	145	122	129	141	150	128	136	148	158	134	142	155	166	138	147	161	171
NOTE: Shaded area reflects AHRI rating conditions																										
85	1326	MBh	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1	36.8	39.2	33.6	34.2	35.9	38.3	31.9	32.5	34.1	36.4	29.6	30.1	31.6	33.7
		S/T	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80
		Delta T	25	24	23	20	24	24	23	20	24	24	23	20	23	24	23	20	22	23	23	20	20	21	21	19
		KW	2.60	2.65	2.73	2.81	2.78	2.84	2.93	3.02	2.95	3.01	3.11	3.20	3.10	3.16	3.26	3.37	3.22	3.29	3.40	3.51	3.33	3.40	3.51	3.63
		AMPS	-0.2	0.0	0.3	0.7	0.6	0.8	1.1	1.5	1.4	1.7	2.0	2.5	2.2	2.4	2.8	3.3	2.9	3.2	3.6	4.1	3.6	4.0	4.4	4.9
		HI PR	252	271	286	298	282	304	321	335	321	346	365	381	366	394	416	434	412	443	468	488	455	489	517	539
		LO PR	116	124	135	144	123	131	143	152	128	136	148	158	134	143	156	166	141	150	163	174	146	155	169	180
	1180	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
		S/T	0.94	0.90	0.82	0.66	0.97	0.94	0.84	0.69	0.99	0.96	0.87	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.94	0.76
		Delta T	26	25	24	21	26	25	24	21	26	25	24	21	25	26	24	21	24	25	24	21	22	23	22	19
		KW	2.58	2.63	2.71	2.79	2.76	2.82	2.91	3.00	2.93	2.99	3.08	3.18	3.07	3.14	3.24	3.34	3.20	3.27	3.37	3.48	3.30	3.37	3.48	3.60
		AMPS	-0.3	-0.1	0.3	0.6	0.5	0.7	1.0	1.4	1.3	1.6	1.9	2.4	2.1	2.3	2.7	3.2	2.8	3.1	3.5	4.0	3.5	3.8	4.3	4.8
		HI PR	249	268	283	295	280	301	318	331	318	342	361	377	362	390	412	429	408	439	463	483	450	485	512	534
		LO PR	115	123	134	143	122	130	141	151	127	135	147	157	133	141	154	164	139	148	162	172	144	153	167	178
	1034	MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5	32.9	35.1	30.1	30.7	32.1	34.3	28.6	29.2	30.5	32.6	26.5	27.0	28.3	30.2
		S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		Delta T	26	26	24	21	26	26	24	21	26	26	24	21	27	26	25	21	25	26	24	21	24	24	23	20
		KW	2.52	2.57	2.64	2.72	2.70	2.75	2.84	2.93	2.86	2.92	3.01	3.10	3.00	3.06	3.16	3.26	3.12	3.19	3.29	3.39	3.22	3.29	3.40	3.51
		AMPS	-0.5	-0.3	0.0	0.3	0.2	0.4	0.7	1.1	1.0	1.3	1.6	2.0	1.7	2.0	2.4	2.8	2.5	2.7	3.2	3.6	3.2	3.5	3.9	4.4
		HI PR	242	260	275	287	271	292	308	321	308	332	351	366	351	378	399	416	395	425	449	469	437	470	496	518
		LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	162	173

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: *PC1348M41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1911	MBh	44.6	46.2	50.6	-	43.5	45.1	49.5	-	42.5	44.1	48.3	-	41.5	43.0	47.1	-	39.4	40.8	44.7	-	36.5	37.8	41.4	-
		S/T	0.80	0.66	0.46	-	0.82	0.69	0.48	-	0.84	0.71	0.49	-	0.87	0.73	0.50	-	0.91	0.76	0.52	-	0.91	0.76	0.53	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-
		KW	3.23	3.30	3.39	-	3.46	3.53	3.64	-	3.67	3.74	3.85	-	3.84	3.92	4.04	-	4.00	4.08	4.21	-	4.13	4.21	4.35	-
		AMPS	16.0	16.3	16.7	-	17.0	17.3	17.7	-	18.0	18.4	18.8	-	19.0	19.3	19.8	-	19.9	20.3	20.8	-	20.9	21.3	21.8	-
		HI PR	243	261	276	-	272	293	309	-	310	333	352	-	353	380	401	-	397	427	451	-	438	472	498	-
		LO PR	116	123	134	-	122	130	142	-	127	135	147	-	133	142	155	-	140	149	162	-	145	154	168	-
	1700	MBh	43.3	44.9	49.2	-	42.3	43.8	48.0	-	41.3	42.8	46.9	-	40.3	41.7	45.7	-	38.3	39.6	43.4	-	35.4	36.7	40.2	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	3.21	3.27	3.37	-	3.44	3.51	3.61	-	3.64	3.71	3.82	-	3.81	3.89	4.01	-	3.96	4.05	4.17	-	4.09	4.18	4.31	-
		AMPS	15.9	16.2	16.6	-	16.8	17.1	17.6	-	17.9	18.2	18.7	-	18.9	19.2	19.7	-	19.8	20.2	20.7	-	20.7	21.1	21.7	-
		HI PR	240	259	273	-	270	290	306	-	307	330	348	-	349	376	397	-	393	423	447	-	434	467	493	-
		LO PR	114	122	133	-	121	129	140	-	126	134	146	-	132	140	153	-	138	147	161	-	143	152	166	-
	1490	MBh	40.0	41.4	45.4	-	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	35.3	36.6	40.1	-	32.7	33.9	37.1	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.70	0.48	-	0.84	0.70	0.49	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	3.14	3.20	3.29	-	3.36	3.43	3.53	-	3.55	3.63	3.74	-	3.73	3.80	3.92	-	3.87	3.95	4.07	-	4.00	4.08	4.21	-
		AMPS	15.6	15.9	16.2	-	16.5	16.8	17.2	-	17.5	17.9	18.3	-	18.5	18.8	19.3	-	19.4	19.7	20.2	-	20.2	20.6	21.2	-
		HI PR	233	251	265	-	262	281	297	-	297	320	338	-	339	365	385	-	381	410	433	-	421	453	479	-
		LO PR	111	118	129	-	117	125	136	-	122	130	142	-	128	136	149	-	134	143	156	-	139	148	161	-
75	1911	MBh	45.3	46.7	50.5	54.2	44.3	45.6	49.4	53.0	43.2	44.5	48.2	51.7	42.2	**43.4**	47.0	50.4	40.1	41.3	44.7	47.9	37.1	38.2	41.4	44.4
		S/T	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.96	0.86	0.65	0.42	0.99	**0.89**	0.67	0.43	1.00	0.92	0.70	0.45	1.00	0.93	0.70	0.45
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	**19**	15	10	19	18	15	10	18	17	14	10
		KW	3.26	3.32	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	**3.95**	4.08	4.21	4.03	4.11	4.24	4.38	4.16	4.25	4.38	4.52
		AMPS	16.1	16.4	16.8	17.3	17.1	17.4	17.8	18.3	18.2	18.5	19.0	19.5	19.1	**19.5**	20.0	20.6	20.1	20.5	21.0	21.6	21.0	21.4	22.0	22.7
		HI PR	245	264	279	291	275	296	313	326	313	337	356	371	356	**383**	405	422	401	431	456	475	443	477	503	525
		LO PR	117	124	136	144	123	131	143	153	128	136	149	159	135	**143**	156	167	141	150	164	175	146	155	170	181
	1700	MBh	44.0	45.3	49.1	52.7	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	41.0	**42.2**	45.6	49.0	38.9	40.1	43.4	46.5	36.0	37.1	40.2	43.1
		S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	**0.85**	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
		Delta T	21	19	15	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	3.23	3.30	3.39	3.49	3.46	3.53	3.64	3.75	3.67	3.74	3.85	3.97	3.84	**3.92**	4.04	4.17	4.00	4.08	4.21	4.34	4.13	4.21	4.35	4.49
		AMPS	16.0	16.3	16.7	17.1	17.0	17.3	17.7	18.2	18.0	18.4	18.8	19.4	19.0	**19.3**	19.8	20.4	19.9	20.3	20.8	21.5	20.9	21.3	21.8	22.5
		HI PR	243	261	276	288	272	293	310	323	310	333	352	367	353	**380**	401	418	397	427	451	470	439	472	498	520
		LO PR	116	123	134	143	122	130	142	151	127	135	147	157	133	**142**	155	165	140	149	162	173	145	154	168	179
	1490	MBh	40.6	41.8	45.3	48.6	39.7	40.9	44.2	47.5	38.7	39.9	43.2	46.3	37.8	**38.9**	42.1	45.2	35.9	37.0	40.0	42.9	33.3	34.2	37.1	39.8
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.88	0.79	0.60	0.38	0.91	**0.82**	0.62	0.40	0.95	0.85	0.64	0.41	0.95	0.85	0.65	0.42
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	**20**	16	11	21	19	16	11	20	18	15	10
		KW	3.16	3.22	3.32	3.42	3.39	3.45	3.55	3.66	3.58	3.65	3.76	3.88	3.76	**3.83**	3.95	4.07	3.90	3.98	4.11	4.24	4.03	4.11	4.24	4.38
		AMPS	15.7	16.0	16.4	16.8	16.6	16.9	17.3	17.8	17.7	18.0	18.4	19.0	18.6	**18.9**	19.4	20.0	19.5	19.9	20.4	21.0	20.4	20.8	21.3	22.0
		HI PR	235	253	268	279	264	284	300	313	300	323	341	356	342	**368**	389	406	385	414	438	456	425	458	483	504
		LO PR	112	119	130	139	118	126	138	147	123	131	143	152	129	**138**	150	160	136	144	157	168	140	149	163	173

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: *PC1348M41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2°F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1911	MBh	46.1	47.2	50.4	53.9	45.1	46.1	49.2	52.6	44.0	45.0	48.0	51.4	42.9	43.9	46.9	50.1	40.8	41.7	44.5	47.6	37.8	38.6	41.2	44.1
		S/T	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.86	0.64	1.00	1.00	0.87	0.65
		Delta T	22	21	18	15	22	21	19	15	21	22	19	15	21	21	19	15	20	20	18	15	18	19	17	14
		KW	3.28	3.35	3.44	3.55	3.52	3.59	3.69	3.81	3.72	3.80	3.91	4.04	3.90	3.99	4.11	4.24	4.06	4.15	4.27	4.41	4.19	4.28	4.42	4.56
		AMPS	16.2	16.5	16.9	17.4	17.2	17.5	17.9	18.4	18.3	18.6	19.1	19.7	19.3	19.6	20.1	20.7	20.2	20.6	21.2	21.8	21.2	21.6	22.2	22.8
		HI PR	248	267	281	294	278	299	316	329	316	340	359	375	360	387	409	427	405	436	460	480	447	482	508	530
		LO PR	118	125	137	146	125	133	145	154	130	138	150	160	136	145	158	168	143	152	166	176	147	157	171	182
	1700	MBh	44.8	45.8	48.9	52.3	43.8	44.7	47.8	51.1	42.7	43.7	46.6	49.9	41.7	42.6	**45.5**	48.6	39.6	40.5	43.2	46.2	36.7	37.5	40.0	42.8
		S/T	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	**0.79**	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	**19**	16	21	22	19	15	20	20	18	14
		KW	3.26	3.32	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.01	3.87	3.95	**4.08**	4.21	4.03	4.11	4.24	4.38	4.16	4.25	4.38	4.52
		AMPS	16.1	16.4	16.8	17.3	17.1	17.4	17.8	18.3	18.2	18.5	19.0	19.5	19.1	19.5	**20.0**	20.6	20.1	20.5	21.0	21.6	21.0	21.4	22.0	22.7
		HI PR	245	264	279	291	275	296	313	326	313	337	356	371	356	384	**405**	422	401	431	456	475	443	477	503	525
		LO PR	117	124	136	144	123	131	143	153	128	136	149	159	135	143	**156**	167	141	150	164	175	146	155	170	181
	1490	MBh	41.4	42.3	45.1	48.3	40.4	41.3	44.1	47.1	39.4	40.3	43.0	46.0	38.5	39.3	42.0	44.9	36.5	37.3	39.9	42.6	33.9	34.6	37.0	39.5
		S/T	0.91	0.85	0.70	0.52	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.04	0.97	0.79	0.59	1.05	0.98	0.80	0.60
		Delta T	23	22	19	15	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	22	21	18	15
		KW	3.19	3.25	3.34	3.44	3.41	3.48	3.58	3.69	3.61	3.68	3.79	3.91	3.78	3.86	3.98	4.11	3.93	4.02	4.14	4.27	4.06	4.15	4.28	4.41
		AMPS	15.8	16.1	16.5	16.9	16.7	17.0	17.4	17.9	17.8	18.1	18.6	19.1	18.7	19.1	19.6	20.1	19.6	20.0	20.5	21.2	20.5	20.9	21.5	22.2
		HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	462	488	509
		LO PR	113	121	132	140	120	127	139	148	124	132	144	154	131	139	152	162	137	146	159	169	142	151	165	175
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1911	MBh	47.0	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.8	45.6	47.8	51.0	43.7	44.5	46.6	49.7	41.5	42.3	44.3	47.3	38.4	39.2	41.0	43.8
		S/T	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.81	1.00	1.00	1.00	0.84	1.00	1.00	1.00	0.84
		Delta T	23	23	22	19	22	22	22	19	22	22	22	19	21	21	22	19	20	20	21	19	18	19	20	18
		KW	3.31	3.37	3.47	3.57	3.54	3.61	3.72	3.84	3.75	3.83	3.94	4.07	3.94	4.02	4.14	4.27	4.09	4.18	4.31	4.45	4.23	4.32	4.45	4.60
		AMPS	16.3	16.6	17.0	17.5	17.3	17.6	18.1	18.6	18.4	18.8	19.2	19.8	19.4	19.8	20.3	20.9	20.4	20.8	21.3	22.0	21.3	21.7	22.3	23.0
		HI PR	250	269	284	296	281	302	319	333	319	344	363	378	364	391	413	431	409	440	465	485	452	486	514	536
		LO PR	119	127	138	147	126	134	146	156	131	139	152	162	137	146	160	170	144	153	167	178	149	158	173	184
	1700	MBh	45.6	46.5	48.7	51.9	44.5	45.4	47.5	50.7	43.5	44.3	46.4	49.5	42.4	43.2	45.3	48.3	40.3	41.1	43.0	45.9	37.3	38.0	39.8	42.5
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		Delta T	24	24	23	20	24	24	23	20	24	24	23	20	23	23	23	20	22	22	23	20	20	21	21	18
		KW	3.28	3.35	3.44	3.55	3.52	3.59	3.69	3.81	3.72	3.80	3.91	4.04	3.90	3.99	4.11	4.24	4.06	4.15	4.27	4.41	4.19	4.28	4.42	4.56
		AMPS	16.2	16.5	16.9	17.4	17.2	17.5	17.9	18.4	18.3	18.6	19.1	19.7	19.3	19.6	20.1	20.7	20.2	20.6	21.2	21.8	21.2	21.6	22.2	22.8
		HI PR	248	267	281	294	278	299	316	329	316	340	359	375	360	387	409	427	405	436	460	480	447	482	508	530
		LO PR	118	125	137	146	125	133	145	154	130	138	150	160	136	145	158	168	143	152	166	176	147	157	171	182
	1490	MBh	42.1	42.9	44.9	47.9	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.1	39.9	41.8	44.6	37.2	37.9	39.7	42.4	34.4	35.1	36.8	39.2
		S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	24	25	24	20	23	23	23	20	21	22	22	19
		KW	3.21	3.27	3.37	3.47	3.44	3.50	3.61	3.72	3.64	3.71	3.82	3.94	3.81	3.89	4.01	4.14	3.96	4.05	4.17	4.30	4.09	4.18	4.31	4.45
		AMPS	15.9	16.2	16.6	17.0	16.8	17.1	17.6	18.1	17.9	18.2	18.7	19.2	18.8	19.2	19.7	20.3	19.8	20.2	20.7	21.3	20.7	21.1	21.7	22.3
		HI PR	240	259	273	285	270	290	306	319	307	330	348	363	349	376	397	414	393	423	446	466	434	467	493	514
		LO PR	114	122	133	142	121	129	140	150	126	134	146	155	132	140	153	163	138	147	161	171	143	152	166	177

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp. + evaporator + condenser fan motors)

MODEL: *PC1360M41** EXPANDED PERFORMANCE DATA COOLING OPERATION

Design Subcooling, 9 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1967	MBh	54.9	56.9	62.3	-	53.6	55.6	60.9	-	52.3	54.2	59.4	-	51.0	52.9	58.0	-	48.5	50.3	55.1	-	44.9	46.6	51.0	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.49	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	4.07	4.15	4.28	-	4.38	4.47	4.61	-	4.64	4.74	4.89	-	4.88	4.99	5.15	-	5.08	5.19	5.36	-	5.26	5.37	5.55	-
		AMPS	19.9	20.3	20.8	-	21.1	21.5	22.1	-	22.6	23.0	23.6	-	23.8	24.3	24.9	-	25.0	25.5	26.2	-	26.2	26.8	27.5	-
		HI PR	239	258	272	-	269	289	305	-	305	329	347	-	348	374	395	-	391	421	445	-	432	465	491	-
		LO PR	106	113	123	-	112	120	130	-	117	124	136	-	123	130	142	-	129	137	149	-	133	141	154	-
	1750	MBh	53.3	55.2	60.5	-	52.0	53.9	59.1	-	50.8	52.7	57.7	-	49.6	51.4	56.3	-	47.1	48.8	53.5	-	43.6	45.2	49.5	-
		S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-
		KW	4.04	4.12	4.25	-	4.34	4.43	4.57	-	4.61	4.70	4.85	-	4.84	4.95	5.10	-	5.04	5.15	5.32	-	5.21	5.33	5.50	-
		AMPS	19.8	20.1	20.6	-	21.0	21.4	21.9	-	22.4	22.8	23.4	-	23.6	24.1	24.7	-	24.8	25.3	26.0	-	26.0	26.6	27.3	-
		HI PR	237	255	269	-	266	286	302	-	302	325	344	-	344	371	391	-	387	417	440	-	428	461	486	-
		LO PR	105	112	122	-	111	118	129	-	116	123	134	-	121	129	141	-	127	135	148	-	132	140	153	-
	1534	MBh	49.2	51.0	55.8	-	48.0	49.8	54.5	-	46.9	48.6	53.2	-	45.7	47.4	51.9	-	43.5	45.0	49.3	-	40.3	41.7	45.7	-
		S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.77	0.64	0.45	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-
		KW	3.95	4.03	4.15	-	4.24	4.33	4.46	-	4.50	4.59	4.74	-	4.72	4.83	4.98	-	4.92	5.02	5.19	-	5.08	5.19	5.36	-
		AMPS	19.4	19.7	20.2	-	20.5	20.9	21.5	-	21.9	22.3	22.9	-	23.1	23.5	24.2	-	24.3	24.8	25.4	-	25.4	25.9	26.7	-
		HI PR	230	247	261	-	258	278	293	-	293	316	333	-	334	359	380	-	376	404	427	-	415	447	472	-
		LO PR	102	109	119	-	108	115	125	-	112	119	130	-	118	125	137	-	123	131	143	-	128	136	148	-
75	1967	MBh	55.8	57.5	62.2	66.7	54.5	56.1	60.7	65.2	53.2	54.8	59.3	63.6	51.9	**53.4**	57.9	62.1	49.3	50.8	55.0	59.0	45.7	47.0	50.9	54.6
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	**0.81**	0.62	0.40	0.95	0.85	0.64	0.41	0.95	0.85	0.65	0.42
		Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	**20**	17	12	22	20	16	11	20	19	15	11
		KW	4.10	4.19	4.32	4.45	4.41	4.50	4.64	4.79	4.68	4.78	4.93	5.09	4.92	**5.03**	5.19	5.36	5.12	5.24	5.41	5.58	5.30	5.42	5.59	5.78
		AMPS	20.0	20.4	20.9	21.5	21.3	21.7	22.2	22.9	22.7	23.2	23.8	24.5	24.0	**24.4**	25.1	25.9	25.2	25.7	26.4	27.2	26.4	27.0	27.7	28.6
		HI PR	242	260	275	287	271	292	308	321	308	332	351	366	351	**378**	399	416	395	425	449	468	437	470	496	518
		LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	**132**	144	153	130	138	151	161	134	143	156	166
	1750	MBh	54.2	55.8	60.4	64.8	52.9	54.5	59.0	63.3	51.7	53.2	57.6	61.8	50.4	**51.9**	56.2	60.3	47.9	49.3	53.4	57.3	44.4	45.7	49.4	53.0
		S/T	0.79	0.71	0.54	0.34	0.82	0.73	0.56	0.36	0.84	0.75	0.57	0.37	0.87	**0.78**	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
		Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	**21**	17	12	23	21	17	12	21	20	16	11
		KW	4.07	4.16	4.28	4.42	4.38	4.47	4.61	4.75	4.64	4.74	4.89	5.05	4.88	**4.99**	5.15	5.31	5.08	5.19	5.36	5.54	5.26	5.37	5.55	5.73
		AMPS	19.9	20.3	20.8	21.4	21.1	21.5	22.1	22.7	22.6	23.0	23.6	24.3	23.8	**24.3**	24.9	25.7	25.0	25.5	26.2	27.0	26.2	26.8	27.5	28.4
		HI PR	239	258	272	284	269	289	305	318	305	329	347	362	348	**374**	395	412	391	421	445	464	432	465	491	512
		LO PR	106	113	124	132	112	120	130	139	117	124	136	144	123	**130**	142	152	129	137	149	159	133	141	154	164
	1534	MBh	50.0	51.5	55.7	59.8	48.8	50.3	54.4	58.4	47.7	49.1	53.1	57.0	46.5	**47.9**	51.8	55.6	44.2	45.5	49.3	52.9	40.9	42.1	45.6	49.0
		S/T	0.76	0.68	0.52	0.33	0.79	0.71	0.54	0.34	0.81	0.73	0.55	0.35	0.84	**0.75**	0.57	0.36	0.87	0.78	0.59	0.38	0.88	0.78	0.59	0.38
		Delta T	23	21	17	12	23	21	17	12	23	21	18	12	23	**22**	18	12	23	21	17	12	22	20	16	11
		KW	3.98	4.06	4.18	4.31	4.27	4.36	4.50	4.64	4.53	4.63	4.77	4.93	4.76	**4.86**	5.02	5.18	4.96	5.07	5.23	5.40	5.13	5.24	5.41	5.59
		AMPS	19.5	19.8	20.3	20.9	20.7	21.1	21.6	22.2	22.1	22.5	23.1	23.8	23.3	**23.7**	24.3	25.1	24.5	24.9	25.6	26.4	25.6	26.1	26.9	27.7
		HI PR	232	250	264	275	260	280	296	309	296	319	337	351	337	**363**	383	400	380	409	431	450	419	451	477	497
		LO PR	103	110	120	128	109	116	127	135	113	121	132	140	119	**127**	138	147	125	133	145	154	129	137	150	160

* IDB: Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: *PC1360M41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 9 ±2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1967	MBh	56.8	58.0	62.0	66.3	55.5	56.7	60.6	64.7	54.2	55.3	59.1	63.2	52.8	54.0	57.7	61.7	50.2	51.3	54.8	58.6	46.5	47.5	50.8	54.3
		S/T	0.91	0.85	0.70	0.52	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
		Delta T	24	23	20	16	24	23	20	16	25	23	20	16	25	24	21	16	23	24	20	16	22	22	19	15
		KW	4.14	4.22	4.35	4.49	4.45	4.54	4.68	4.83	4.72	4.82	4.97	5.14	4.96	5.07	5.23	5.40	5.17	5.28	5.45	5.63	5.34	5.46	5.64	5.83
		AMPS	20.2	20.6	21.1	21.7	21.4	21.8	22.4	23.1	22.9	23.3	24.0	24.7	24.1	24.6	25.3	26.1	25.4	25.9	26.6	27.5	26.6	27.2	27.9	28.8
		HI PR	244	263	277	289	274	295	311	325	312	335	354	369	355	382	403	421	399	430	454	473	441	475	501	523
		LO PR	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168
	1750	MBh	55.1	56.3	60.2	64.4	53.9	55.0	58.8	62.9	52.6	53.7	57.4	61.4	51.3	52.4	**56.0**	59.9	48.7	49.8	53.2	56.9	45.1	46.1	49.3	52.7
		S/T	0.87	0.81	0.66	0.50	0.90	0.84	0.69	0.51	0.92	0.87	0.70	0.53	0.95	0.89	**0.73**	0.54	0.99	0.93	0.75	0.56	1.00	0.94	0.76	0.57
		Delta T	25	24	21	17	25	24	21	17	26	24	21	17	26	25	**21**	17	25	24	21	17	24	23	20	16
		KW	4.10	4.19	4.32	4.45	4.41	4.50	4.64	4.79	4.68	4.78	4.93	5.09	4.92	5.03	**5.19**	5.36	5.12	5.24	5.41	5.58	5.30	5.42	5.59	5.78
		AMPS	20.0	20.4	20.9	21.5	21.3	21.7	22.2	22.9	22.7	23.2	23.8	24.5	24.0	24.4	**25.1**	25.9	25.2	25.7	26.4	27.3	26.4	27.0	27.7	28.6
		HI PR	242	260	275	287	271	292	308	322	309	332	351	366	351	378	**399**	416	395	425	449	469	437	470	496	518
		LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	**144**	153	130	138	151	161	134	143	156	166
	1534	MBh	50.9	52.0	55.6	59.4	49.7	50.8	54.3	58.0	48.5	49.6	53.0	56.6	47.3	48.4	51.7	55.3	45.0	46.0	49.1	52.5	41.7	42.6	45.5	48.6
		S/T	0.84	0.79	0.64	0.48	0.87	0.81	0.66	0.50	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.96	0.90	0.73	0.55
		Delta T	26	24	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		KW	4.01	4.09	4.22	4.35	4.31	4.40	4.53	4.68	4.57	4.67	4.81	4.97	4.80	4.90	5.06	5.23	5.00	5.11	5.27	5.45	5.17	5.28	5.45	5.63
		AMPS	19.6	20.0	20.5	21.1	20.8	21.2	21.8	22.4	22.2	22.7	23.3	23.9	23.4	23.9	24.5	25.3	24.6	25.1	25.8	26.6	25.8	26.4	27.1	27.9
		HI PR	234	252	266	278	263	283	299	312	299	322	340	355	341	367	387	404	383	413	436	454	424	456	481	502
		LO PR	104	111	121	129	110	117	128	136	114	122	133	142	120	128	140	149	126	134	146	156	130	139	151	161
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1967	MBh	57.8	58.9	61.7	65.8	56.4	57.5	60.3	64.3	55.1	56.2	58.8	62.8	53.8	54.8	57.4	61.2	51.1	52.1	54.5	58.2	47.3	48.2	50.5	53.9
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	25	26	24	21	24	24	24	21	22	23	23	20
		KW	4.17	4.25	4.38	4.52	4.48	4.58	4.72	4.87	4.76	4.86	5.01	5.18	5.00	5.11	5.27	5.45	5.21	5.32	5.50	5.68	5.39	5.51	5.69	5.88
		AMPS	20.3	20.7	21.2	21.8	21.6	22.0	22.6	23.2	23.1	23.5	24.1	24.9	24.3	24.8	25.5	26.3	25.6	26.1	26.8	27.7	26.8	27.4	28.2	29.1
		HI PR	247	265	280	292	277	298	314	328	315	339	358	373	358	386	407	425	403	434	458	478	446	479	506	528
		LO PR	110	117	127	136	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169
	1750	MBh	56.1	57.2	59.9	63.9	54.8	55.9	58.5	62.4	53.5	54.5	57.1	60.9	52.2	53.2	55.7	59.4	49.6	50.5	52.9	56.5	45.9	46.8	49.0	52.3
		S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.97	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
		Delta T	27	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	26	27	25	22	24	25	23	20
		KW	4.14	4.22	4.35	4.49	4.45	4.54	4.68	4.83	4.72	4.82	4.97	5.14	4.96	5.07	5.23	5.40	5.17	5.28	5.45	5.63	5.34	5.46	5.64	5.83
		AMPS	20.2	20.6	21.1	21.7	21.4	21.8	22.4	23.1	22.9	23.3	24.0	24.7	24.1	24.6	25.3	26.1	25.4	25.9	26.6	27.5	26.6	27.2	27.9	28.8
		HI PR	244	263	277	289	274	295	311	325	312	335	354	369	355	382	403	421	399	430	454	473	441	475	501	523
		LO PR	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168
	1534	MBh	51.8	52.8	55.3	59.0	50.6	51.6	54.0	57.6	49.4	50.3	52.7	56.2	48.2	49.1	51.4	54.9	45.8	46.7	48.9	52.1	42.4	43.2	45.3	48.3
		S/T	0.88	0.85	0.76	0.62	0.91	0.88	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.97	0.88	0.71
		Delta T	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	27	27	26	22	25	25	24	21
		KW	4.04	4.12	4.25	4.38	4.34	4.43	4.57	4.71	4.61	4.70	4.85	5.01	4.84	4.94	5.10	5.27	5.04	5.15	5.32	5.49	5.21	5.33	5.50	5.68
		AMPS	19.8	20.1	20.6	21.2	21.0	21.4	21.9	22.6	22.4	22.8	23.4	24.1	23.6	24.1	24.7	25.5	24.8	25.3	26.0	26.8	26.0	26.6	27.3	28.2
		HI PR	237	255	269	281	266	286	302	315	302	325	343	358	344	370	391	408	387	417	440	459	428	460	486	507
		LO PR	114	122	133	142	121	129	140	150	126	134	146	155	132	140	153	163	138	147	161	171	143	152	166	177

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.

2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **3 degrees** of the typical (**Delta T**) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

PRODUCT DESIGN

*PC13 M SEER R-410A
Single Phase
Package Cooling Units

PC1336M41C
PC1348M41C
PC1360M41C

*PC Package Cooling Units are designed for outdoor installations only in either residential or light commercial applications. *PC13**M41 are single phase units and are available in 3, 4 ton and 5 ton sizes in 208/230 volts.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application, a matching Roof Curb is recommended and a horizontal duct cover kit is required.

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" PVC pipe is provided for removal of condensate water from the indoor coil. A trap must be provided to have proper condensate drainage. (Do not reduce the drain line size.)

Refrigerant flow control is achieved by use of restrictor orifices. *PC units use the FasTest Access Fitting System with a saddle that is either soldered to the suction and liquid lines or is fastened with a locking nut to the access fitting box (core) and then screwed into the saddle. **Do not remove the core from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.**

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are therefore not required for these units. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

The outdoor fan motors are single phase capacitor type motors. *PC1336M41** models have a PSC type indoor blower motor. *PC1348-60M41** units have EEM indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The EEM motors feature an integral control module.

Air for condensing (cooling cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

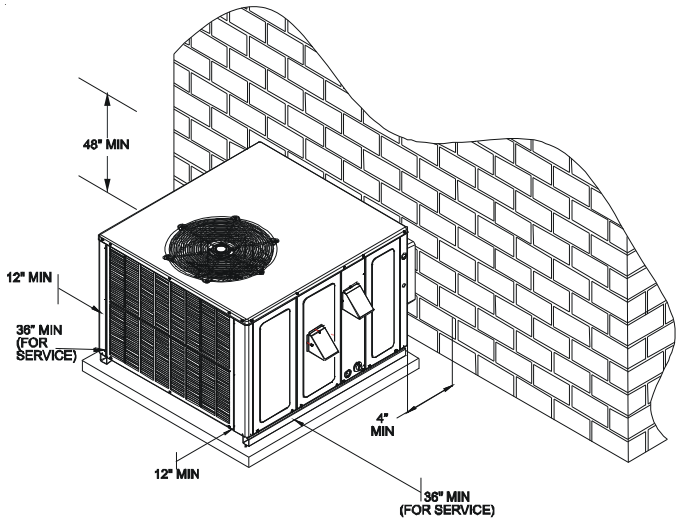
*PC13 models use the Compliant Scroll compressor; there are a number of design characteristics which are different from the traditional reciprocating compressor.

- Due to their design Scroll Compressors are inherently more tolerant of liquid refrigerant. **NOTE**: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- These Scroll compressors use "POE" or polyolester oil, which is NOT compatible with mineral oil based lubricant like 3GS. "POE" oil must be used if additional oil is required.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

PRODUCT DESIGN

Location and Clearances

NOTE: To ensure proper condensate drainage, unit must be installed in a level position.

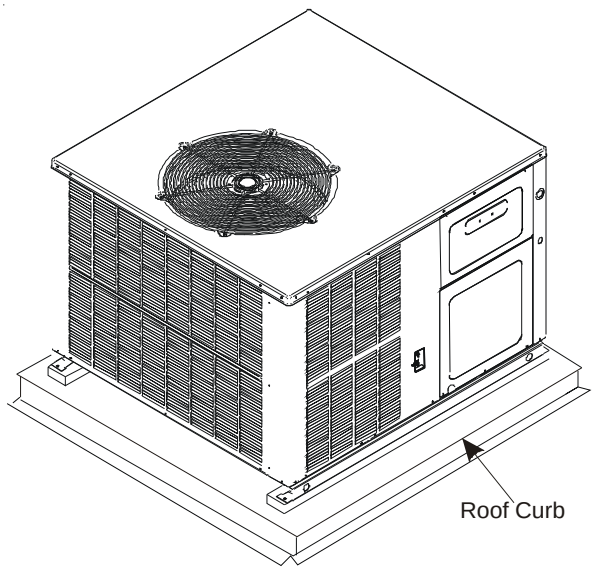


Outside Slab Installation - Multi-positional(M)

NOTE: Roof overhang should be no more than 36" and provisions made to deflect the warm discharge air out from the overhang.

NOTE: Single phase models require installation of horizontal duct kit #20464501PDGK (medium chassis) and #20464502PDGK (large chassis) when using bottom discharge.

Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.



Rooftop Installation - Multi-positional (M)

NOTE: To ensure proper condensate drainage, unit must be installed in a level position.

In installations where the unit is installed above ground level and not serviceable from the ground (Example: Roof Top installations), the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances or in their absence with the latest edition of the Uniform Mechanical Code Section 305.

NOTE: Unit can also use roof curb (and platform for leveling, where necessary) to utilize bottom discharge.

⚠ WARNING

TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.

IMPORTANT: If using bottom discharge with roof curb, ductwork should be attached to the curb prior to installing the unit.

Refer to Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

PACKAGE COOLING SPECIFICATIONS *PC13[36-60]M41C*

		PC1336M41C	*PC1348M41C*	*PC1360M41C*
COOLING CAPACITY	COOLING CAPACITY, BTUH	35,000	45,500	56,000
	SEER / EER	13 / 11	13 / 11	13 / 10.9
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-1	208/230-1	208/230-1
	AMPS	21.2	27.1	35.4
	MIN CIRCUIT AMPACITY	25.3	32.1	42.0
	MAX OVERCURRENT PROTECTION	40	50	60
COMPRESSOR	TYPE	Scroll	Scroll	Scroll
	RATED LOAD AMPS	16.7	19.9	26.4
	LOCKED ROTOR AMPS	79	109	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1,075	1,075	1,075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES)	22	22	22
	NUMBER OF BLADES	3	3	3
CONDENSER COIL	FACE AREA (SQ. FT.)	8.77	15.36	21.04
	NUMBER OF ROWS	2	1	2
	FINS PER INCH	27	24	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/3 - 3	3/4 - 5	1 - 5
	FULL LOAD AMPS	3.06	5.8	7.6
	LOCKED ROTOR AMPS	4.1	---	---
	MOTOR SPEED TAP-COOLING EEM	High	T2	T2
	RPM	910	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 9	10 x 9	10 x 9
	RATED SCFM COOLING	1,080	1,675	1,750
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	4.55	6.20	6.20
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE *	25 x 25 x 1	(2) 20 x 20 x 1	(2) 20 x 20 x 1
	DRAIN SIZE (INCHES)	¾"	¾"	¾"
	EXPANSION DEVICE	0.070	0.076	0.087
	REFRIGERANT CHARGE R410A (OZS.)	70	116	195
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)	1/2	1/2	1/2
	SHIPPING WEIGHT (LBS.)	365	435	445
	OPERATING WEIGHT (LBS.)	355	425	435

[1] Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.
[2] May use fuses or HACR-type circuit breakers of the same size as noted.
Note: Always check the S&R plate for electrical data on the unit being installed.

IMPORTANT: While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters.

BLOWER PERFORMANCE DATA *PC13[36-60]M41C*

Dry Coil Data

Model	Motor Tap Speed	Volts		E.S.P. (In. of H2O)							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
*PC1336M41**	Low	230	CFM	1,122	1,078	1,032	972	915	804	687	558
			Watts	338	330	321	310	300	283	264	250
	Med	230	CFM	1,387	1,331	1,264	1,209	1,119	1,041	935	748
			Watts	456	440	428	412	399	382	363	330
	High	230	CFM	1,521	1,454	1,388	1,311	1,230	1,144	1,055	939
			Watts	534	521	510	490	477	461	442	420
*PC1348M41**	T1	230	CFM	1,451	1,404	1,356	1,309	1,262	1,215	1,168	1,121
			Watts	255	264	273	282	291	299	308	317
	T2 / T3	230	CFM	1,809	1,762	1,715	1,667	1,620	1,573	1,526	1,479
			Watts	444	453	462	471	479	488	497	506
	T4 / T5	230	CFM	1,885	1,838	1,790	1,743	1,696	1,649	1,602	1,555
			Watts	484	493	502	510	519	528	537	546
*PC1360M41**	T1	230	CFM	1,774	1,731	1,688	1,645	1,602	1,559	1,515	1,472
			Watts	444	453	463	473	483	493	503	512
	T2 / T3	230	CFM	1,891	1,848	1,804	1,761	1,718	1,675	1,632	1,589
			Watts	515	525	535	544	554	564	574	584
	T4 / T5	230	CFM	2,105	2,062	2,018	1,975	1,932	1,889	1,846	1,803
			Watts	646	656	666	676	686	696	705	715

NOTES:

- Data shown is Dry Coil. Wet Coil Pressure Drop is approximate. 0.1" H_2O, for 2 row indoor coil; 0.2" H_2O, for 3 row indoor coil; and 0.3" H_2O, for 4 row indoor coil.
- Data shown does not include filter pressure drop, approx. 0.08" H_2O.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM / TON.
- Reduce airflow by 2% for 208V operation.

MODEL: *PC1336M41C*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

COOLING PERFORMANCE DATA

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1235	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		KW	2.48	2.53	2.61	-	2.66	2.71	2.80	-	2.82	2.88	2.97	-	2.96	3.02	3.11	-	3.08	3.14	3.24	-	3.18	3.25	3.35	-
		AMPS	10.6	10.9	11.1	-	11.3	11.6	11.9	-	12.2	12.4	12.7	-	12.9	13.1	13.5	-	13.6	13.8	14.2	-	14.2	14.5	15.0	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	438	-	426	459	484	-
		LO PR	107	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	134	143	156	-
	1180	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	2.48	2.53	2.61	-	2.66	2.71	2.80	-	2.82	2.88	2.97	-	2.96	3.02	3.11	-	3.08	3.14	3.24	-	3.18	3.25	3.35	-
		AMPS	10.6	10.9	11.1	-	11.3	11.6	11.9	-	12.2	12.4	12.7	-	12.9	13.1	13.5	-	13.6	13.8	14.2	-	14.2	14.5	15.0	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	438	-	426	459	484	-
		LO PR	107	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	134	143	156	-
	965	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-	25.2	26.1	28.6	-
		S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.78	0.65	0.45	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	2.43	2.47	2.55	-	2.60	2.65	2.73	-	2.75	2.81	2.90	-	2.89	2.95	3.04	-	3.00	3.07	3.16	-	3.10	3.17	3.27	-
		AMPS	10.4	10.6	10.9	-	11.1	11.3	11.6	-	11.9	12.1	12.5	-	12.6	12.8	13.2	-	13.2	13.5	13.9	-	13.9	14.2	14.6	-
		HI PR	229	246	260	-	257	276	292	-	292	314	332	-	333	358	378	-	374	403	425	-	413	445	470	-
		LO PR	104	111	121	-	110	117	128	-	114	122	133	-	120	128	140	-	126	134	146	-	130	139	151	-
75	1235	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
		Delta T	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10
		KW	2.50	2.55	2.63	2.71	2.68	2.74	2.82	2.91	2.84	2.90	2.99	3.08	2.98	3.04	3.14	3.24	3.10	3.17	3.27	3.37	3.20	3.27	3.38	3.49
		AMPS	10.7	10.9	11.2	11.6	11.4	11.7	12.0	12.4	12.2	12.5	12.8	13.3	13.0	13.2	13.6	14.0	13.7	13.9	14.3	14.8	14.4	14.7	15.1	15.6
		HI PR	238	257	271	283	267	288	304	317	304	327	346	361	346	373	394	411	390	419	443	462	431	463	489	510
		LO PR	109	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168
	1180	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	**32.4**	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	**0.78**	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	**20**	16	11	21	20	16	11	20	18	15	10
		KW	2.50	2.55	2.63	2.71	2.68	2.74	2.82	2.91	2.84	2.90	2.99	3.08	2.98	**3.04**	3.14	3.24	3.10	3.17	3.27	3.37	3.20	3.27	3.38	3.49
		AMPS	10.7	10.9	11.2	11.6	11.4	11.7	12.0	12.4	12.2	12.5	12.8	13.3	13.0	**13.2**	13.6	14.0	13.7	13.9	14.3	14.8	14.4	14.7	15.1	15.6
		HI PR	238	257	271	283	267	288	304	317	304	327	346	361	346	**373**	394	411	390	419	443	462	431	463	489	510
		LO PR	109	115	126	134	115	122	133	142	119	127	138	147	125	**133**	145	155	131	140	152	162	136	144	158	168
	965	MBh	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	29.9	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6
		S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38
		Delta T	23	21	17	12	23	21	17	12	23	21	18	12	23	22	18	12	23	21	17	12	22	20	16	11
		KW	2.44	2.49	2.57	2.64	2.62	2.67	2.75	2.84	2.77	2.83	2.92	3.01	2.91	2.97	3.06	3.16	3.03	3.09	3.19	3.29	3.13	3.19	3.30	3.40
		AMPS	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.1	12.0	12.2	12.5	12.9	12.7	12.9	13.3	13.7	13.3	13.6	14.0	14.5	14.0	14.3	14.7	15.2
		HI PR	231	249	263	274	259	279	295	307	295	318	335	350	336	362	382	398	378	407	430	448	418	450	475	495
		LO PR	105	112	122	130	111	118	129	138	116	123	134	143	121	129	141	150	127	135	148	157	132	140	153	163

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

PC1336M41C

MODEL: *PC1336M41C*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1235	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
		Delta T	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		KW	2.52	2.57	2.65	2.73	2.70	2.76	2.84	2.93	2.86	2.92	3.01	3.11	3.01	3.07	3.17	3.27	3.13	3.19	3.29	3.40	3.23	3.30	3.41	3.52
		AMPS	10.8	11.0	11.3	11.7	11.5	11.7	12.1	12.4	12.3	12.6	12.9	13.4	13.1	13.3	13.7	14.2	13.8	14.1	14.5	14.9	14.5	14.8	15.2	15.7
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	447	467	435	468	494	516
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	126	135	147	156	133	141	154	164	137	146	159	170
	1180	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	**35.0**	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	**0.73**	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	24	23	20	16	22	21	18	15
		KW	2.52	2.57	2.65	2.73	2.70	2.76	2.84	2.93	2.86	2.92	3.01	3.11	3.01	3.07	**3.17**	3.27	3.13	3.19	3.29	3.40	3.23	3.30	3.41	3.52
		AMPS	10.8	11.0	11.3	11.7	11.5	11.7	12.1	12.4	12.3	12.6	12.9	13.4	13.1	13.3	**13.7**	14.2	13.8	14.1	14.5	14.9	14.5	14.8	15.2	15.7
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	**398**	415	394	424	447	467	435	468	494	516
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	126	135	**147**	156	133	141	154	164	137	146	159	170
	965	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4
		S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
		Delta T	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		KW	2.46	2.51	2.59	2.66	2.64	2.69	2.77	2.86	2.80	2.85	2.94	3.03	2.93	3.00	3.09	3.19	3.05	3.12	3.21	3.32	3.15	3.22	3.32	3.43
		AMPS	10.6	10.8	11.1	11.4	11.3	11.5	11.8	12.2	12.1	12.3	12.6	13.0	12.8	13.0	13.4	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.8	15.3
		HI PR	234	251	265	277	262	282	298	311	298	321	339	353	339	365	386	402	382	411	434	453	422	454	479	500
		LO PR	106	113	124	132	112	120	131	139	117	124	136	144	123	131	142	152	129	137	149	159	133	141	154	165
			NOTE: Shaded area reflects ARI rating conditions																							
85	1235	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
		S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		Delta T	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	23	24	22	19	21	22	21	18
		KW	2.54	2.59	2.67	2.75	2.72	2.78	2.86	2.95	2.89	2.95	3.04	3.13	3.03	3.09	3.19	3.29	3.15	3.22	3.32	3.43	3.26	3.33	3.43	3.55
		AMPS	10.9	11.1	11.4	11.7	11.6	11.8	12.2	12.5	12.4	12.7	13.0	13.5	13.2	13.4	13.8	14.3	13.9	14.2	14.6	15.1	14.6	14.9	15.3	15.8
		HI PR	243	262	276	288	273	294	310	323	310	334	353	368	353	380	402	419	398	428	452	471	439	473	499	521
		LO PR	111	118	129	137	117	124	136	145	122	129	141	150	128	136	148	158	134	142	155	166	138	147	161	171
	1180	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
		S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		Delta T	25	25	23	20	25	25	24	20	25	25	24	20	25	25	24	21	24	25	23	20	22	23	22	19
		KW	2.54	2.59	2.67	2.75	2.72	2.78	2.86	2.95	2.89	2.95	3.04	3.13	3.03	3.09	3.19	3.29	3.15	3.22	3.32	3.43	3.26	3.33	3.43	3.55
		AMPS	10.9	11.1	11.4	11.7	11.6	11.8	12.2	12.5	12.4	12.7	13.0	13.5	13.2	13.4	13.8	14.3	13.9	14.2	14.6	15.1	14.6	14.9	15.3	15.8
		HI PR	243	262	276	288	273	294	310	323	310	334	353	368	353	380	402	419	398	428	452	471	439	473	499	521
		LO PR	111	118	129	137	117	124	136	145	122	129	141	150	128	136	148	158	134	142	155	166	138	147	161	171
	965	MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5	32.9	35.1	30.1	30.7	32.1	34.3	28.6	29.2	30.5	32.6	26.5	27.0	28.3	30.2
		S/T	0.88	0.85	0.77	0.63	0.92	0.88	0.80	0.65	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.88	0.72
		Delta T	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	27	27	26	22	25	25	24	21
		KW	2.48	2.53	2.61	2.68	2.66	2.71	2.80	2.88	2.82	2.88	2.96	3.06	2.96	3.02	3.11	3.21	3.08	3.14	3.24	3.34	3.18	3.25	3.35	3.46
		AMPS	10.6	10.9	11.1	11.5	11.3	11.6	11.9	12.3	12.2	12.4	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.5	15.0	15.5
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	406	386	415	438	457	426	459	484	505
		LO PR	107	114	125	133	114	121	132	140	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166

* NOTE: Shaded areas are TVA and ARI Rating Conditio IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: *PC1348M41C*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

COOLING PERFORMANCE DATA

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1880	MBh	44.6	46.2	50.6	-	43.5	45.1	49.5	-	42.5	44.1	48.3	-	41.5	43.0	47.1	-	39.4	40.8	44.7	-	36.5	37.8	41.4	-
		S/T	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.86	0.72	0.50	-	0.89	0.75	0.52	-	0.93	0.77	0.54	-	0.93	0.78	0.54	-
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	3.12	3.19	3.28	-	3.35	3.42	3.53	-	3.56	3.63	3.74	-	3.73	3.81	3.94	-	3.89	3.97	4.10	-	4.02	4.11	4.24	-
		AMPS	14.9	15.2	15.6	-	15.9	16.2	16.6	-	16.9	17.2	17.7	-	17.8	18.2	18.7	-	18.8	19.1	19.7	-	19.7	20.1	20.6	-
		HI PR	241	260	274	-	271	291	308	-	308	331	350	-	351	378	399	-	395	425	449	-	436	469	496	-
		LO PR	111	118	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-
	1675	MBh	43.3	44.9	49.2	-	42.3	43.8	48.0	-	41.3	42.8	46.9	-	40.3	41.7	45.7	-	38.3	39.6	43.4	-	35.4	36.7	40.2	-
		S/T	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.52	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	3.10	3.16	3.26	-	3.33	3.40	3.50	-	3.53	3.60	3.71	-	3.71	3.78	3.90	-	3.86	3.94	4.06	-	3.99	4.07	4.20	-
		AMPS	14.8	15.1	15.5	-	15.8	16.0	16.5	-	16.8	17.1	17.6	-	17.7	18.1	18.5	-	18.6	19.0	19.5	-	19.5	19.9	20.5	-
		HI PR	239	257	272	-	268	289	305	-	305	328	347	-	347	374	395	-	391	421	444	-	432	465	491	-
		LO PR	110	117	128	-	116	124	135	-	121	129	141	-	127	135	148	-	133	142	155	-	138	147	160	-
	1470	MBh	40.0	41.4	45.4	-	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	35.3	36.6	40.1	-	32.7	33.9	37.1	-
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.66	0.46	-	0.82	0.69	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	3.03	3.09	3.18	-	3.25	3.32	3.42	-	3.45	3.52	3.63	-	3.62	3.69	3.81	-	3.76	3.84	3.97	-	3.89	3.97	4.10	-
		AMPS	14.5	14.8	15.2	-	15.4	15.7	16.1	-	16.4	16.8	17.2	-	17.3	17.7	18.1	-	18.2	18.6	19.1	-	19.1	19.5	20.0	-
		HI PR	232	249	263	-	260	280	296	-	296	318	336	-	337	363	383	-	379	408	431	-	419	451	476	-
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	138	150	-	134	142	155	-
75	1880	MBh	45.3	46.7	50.5	54.2	44.3	45.6	49.4	53.0	43.2	44.5	48.2	51.7	42.2	43.4	47.0	50.4	40.1	41.3	44.7	47.9	37.1	38.2	41.4	44.4
		S/T	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.98	0.88	0.67	0.43	1.00	0.91	0.69	0.44	1.00	0.94	0.71	0.46	1.00	0.95	0.72	0.46
		Delta T	21	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	16	11	18	18	15	10
		KW	3.15	3.21	3.31	3.41	3.38	3.45	3.56	3.67	3.58	3.66	3.77	3.90	3.77	3.85	3.97	4.10	3.92	4.00	4.13	4.27	4.05	4.14	4.27	4.41
		AMPS	15.1	15.3	15.7	16.2	16.0	16.3	16.7	17.2	17.0	17.4	17.8	18.4	18.0	18.3	18.8	19.4	18.9	19.3	19.8	20.4	19.8	20.2	20.8	21.4
		HI PR	244	262	277	289	274	294	311	324	311	335	354	369	354	381	403	420	399	429	453	473	441	474	501	522
		LO PR	112	120	131	139	119	126	138	147	124	131	143	153	130	138	151	160	136	145	158	168	141	150	163	174
	1675	MBh	44.0	45.3	49.1	52.7	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	41.0	**42.2**	45.6	49.0	38.9	40.1	43.4	46.5	36.0	37.1	40.2	43.1
		S/T	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.94	0.84	0.63	0.41	0.97	**0.87**	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.91	0.69	0.44
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	**20**	16	11	21	20	16	11	20	18	15	10
		KW	3.12	3.19	3.28	3.38	3.35	3.42	3.53	3.64	3.56	3.63	3.75	3.86	3.74	**3.81**	3.94	4.06	3.89	3.97	4.10	4.23	4.02	4.11	4.24	4.38
		AMPS	15.0	15.2	15.6	16.0	15.9	16.2	16.6	17.1	16.9	17.3	17.7	18.2	17.8	**18.2**	18.7	19.3	18.8	19.1	19.7	20.3	19.7	20.1	20.6	21.3
		HI PR	241	260	274	286	271	292	308	321	308	332	350	365	351	**378**	399	416	395	425	449	468	436	469	496	517
		LO PR	111	118	129	138	118	125	137	146	122	130	142	151	128	**137**	149	159	135	143	156	167	139	148	162	172
	1470	MBh	40.6	41.8	45.3	48.6	39.7	40.9	44.2	47.5	38.7	39.9	43.2	46.3	37.8	38.9	42.1	45.2	35.9	37.0	40.0	42.9	33.3	34.2	37.1	39.8
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.87	0.66	0.43
		Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11
		KW	3.05	3.11	3.21	3.31	3.28	3.34	3.45	3.55	3.47	3.55	3.66	3.77	3.65	3.72	3.84	3.96	3.79	3.87	4.00	4.13	3.92	4.01	4.13	4.27
		AMPS	14.6	14.9	15.3	15.7	15.5	15.8	16.2	16.7	16.6	16.9	17.3	17.8	17.5	17.8	18.3	18.8	18.3	18.7	19.2	19.8	19.2	19.6	20.1	20.8
		HI PR	234	252	266	278	263	283	299	311	299	322	340	354	340	366	387	403	383	412	435	454	423	455	481	501
		LO PR	108	115	125	134	114	121	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

PC1348M41C

MODEL: *PC1348M41C*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1880	MBh	46.1	47.2	50.4	53.9	45.1	46.1	49.2	52.6	44.0	45.0	48.0	51.4	42.9	43.9	46.9	50.1	40.8	41.7	44.5	47.6	37.8	38.6	41.2	44.1
		S/T	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.82	0.62	1.00	1.00	0.85	0.63	1.00	1.00	0.88	0.66	1.00	1.00	0.89	0.66
		Delta T	23	22	19	15	22	23	19	15	22	22	19	15	21	21	19	16	20	20	19	15	18	19	18	14
		KW	3.17	3.24	3.33	3.44	3.41	3.48	3.58	3.70	3.61	3.69	3.81	3.93	3.80	3.88	4.00	4.13	3.95	4.04	4.17	4.30	4.08	4.17	4.31	4.45
		AMPS	15.2	15.4	15.8	16.3	16.1	16.4	16.8	17.3	17.2	17.5	18.0	18.5	18.1	18.5	19.0	19.5	19.0	19.4	20.0	20.6	20.0	20.4	20.9	21.6
		HI PR	246	265	280	292	276	297	314	328	314	338	357	373	358	385	407	424	403	433	458	477	445	479	506	527
		LO PR	114	121	132	141	120	128	139	148	125	133	145	154	131	139	152	162	137	146	160	170	142	151	165	176
	1675	MBh	44.8	45.8	48.9	52.3	43.8	44.7	47.8	51.1	42.7	43.7	46.6	49.9	41.7	42.6	**45.5**	48.6	39.6	40.5	43.2	46.2	36.7	37.5	40.0	42.8
		S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.96	0.78	0.59	1.00	1.00	**0.81**	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.63
		Delta T	24	23	20	16	24	23	20	16	23	23	20	16	23	23	**20**	16	22	22	20	16	20	21	19	15
		KW	3.15	3.21	3.31	3.41	3.38	3.45	3.56	3.67	3.58	3.66	3.78	3.90	3.77	3.85	**3.97**	4.10	3.92	4.00	4.13	4.27	4.05	4.14	4.27	4.41
		AMPS	15.1	15.3	15.7	16.2	16.0	16.3	16.7	17.2	17.1	17.4	17.8	18.4	18.0	18.3	**18.8**	19.4	18.9	19.3	19.8	20.4	19.8	20.2	20.8	21.4
		HI PR	244	262	277	289	274	294	311	324	311	335	354	369	354	381	**403**	420	399	429	453	473	441	474	501	522
		LO PR	112	120	131	139	119	126	138	147	124	131	143	153	130	138	**151**	160	136	145	158	168	141	150	163	174
	1470	MBh	41.4	42.3	45.1	48.3	40.4	41.3	44.1	47.1	39.4	40.3	43.0	46.0	38.5	39.3	42.0	44.9	36.5	37.3	39.9	42.6	33.9	34.6	37.0	39.5
		S/T	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.99	0.93	0.76	0.57	1.02	0.96	0.78	0.58	1.06	1.00	0.81	0.61	1.07	1.00	0.82	0.61
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15
		KW	3.08	3.14	3.23	3.33	3.30	3.37	3.47	3.58	3.50	3.57	3.68	3.80	3.68	3.75	3.87	4.00	3.82	3.91	4.03	4.16	3.95	4.04	4.17	4.30
		AMPS	14.7	15.0	15.4	15.8	15.6	15.9	16.3	16.8	16.7	17.0	17.4	18.0	17.6	17.9	18.4	19.0	18.5	18.8	19.4	20.0	19.4	19.8	20.3	20.9
		HI PR	237	255	269	280	265	286	302	315	302	325	343	358	344	370	391	408	387	416	440	458	427	460	486	507
		LO PR	109	116	127	135	115	123	134	143	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169

NOTE: Shaded area reflects ARI rating conditions

85	1880	MBh	47.0	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.8	45.6	47.8	51.0	43.7	44.5	46.6	49.7	41.5	42.3	44.3	47.3	38.4	39.2	41.0	43.8
		S/T	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.98	0.80	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.86	1.00	1.00	1.00	0.86
		Delta T	23	23	23	20	22	23	23	20	22	22	23	20	21	22	23	20	20	21	22	20	19	19	20	18
		KW	3.20	3.26	3.36	3.46	3.43	3.50	3.61	3.73	3.64	3.72	3.84	3.96	3.83	3.91	4.03	4.16	3.98	4.07	4.20	4.34	4.12	4.21	4.34	4.49
		AMPS	15.3	15.5	15.9	16.4	16.2	16.5	16.9	17.4	17.3	17.6	18.1	18.6	18.2	18.6	19.1	19.7	19.2	19.6	20.1	20.7	20.1	20.5	21.1	21.8
		HI PR	249	268	283	295	279	300	317	331	317	342	361	376	362	389	411	429	407	438	462	482	449	484	511	533
		LO PR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	139	148	161	172	143	153	167	177
	1675	MBh	45.6	46.5	48.7	51.9	44.5	45.4	47.5	50.7	43.5	44.3	46.4	49.5	42.4	43.2	45.3	48.3	40.3	41.1	43.0	45.9	37.3	38.0	39.8	42.5
		S/T	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.82
		Delta T	25	25	24	20	24	25	24	21	24	24	24	21	23	24	24	21	22	23	24	21	20	21	22	19
		KW	3.17	3.24	3.33	3.44	3.41	3.48	3.58	3.70	3.61	3.69	3.81	3.93	3.80	3.88	4.00	4.13	3.95	4.04	4.17	4.30	4.08	4.17	4.31	4.45
		AMPS	15.2	15.4	15.8	16.3	16.1	16.4	16.8	17.3	17.2	17.5	18.0	18.5	18.1	18.5	19.0	19.5	19.0	19.4	20.0	20.6	20.0	20.4	20.9	21.6
		HI PR	246	265	280	292	276	297	314	328	314	338	357	373	358	385	407	424	403	433	458	477	445	479	506	527
		LO PR	114	121	132	141	120	128	139	148	125	133	145	154	131	139	152	162	137	146	160	170	142	151	165	176
	1470	MBh	42.1	42.9	44.9	47.9	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.1	39.9	41.8	44.6	37.2	37.9	39.7	42.4	34.4	35.1	36.8	39.2
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	26	25	24	21	26	26	24	21	25	26	24	21	24	25	24	21	23	24	24	21	22	22	22	19
		KW	3.10	3.16	3.26	3.36	3.33	3.40	3.50	3.61	3.53	3.60	3.71	3.83	3.70	3.78	3.90	4.03	3.85	3.94	4.06	4.20	3.98	4.07	4.20	4.34
		AMPS	14.8	15.1	15.5	15.9	15.8	16.0	16.5	16.9	16.8	17.1	17.6	18.1	17.7	18.1	18.5	19.1	18.6	19.0	19.5	20.1	19.5	19.9	20.4	21.1
		HI PR	239	257	272	283	268	289	305	318	305	328	346	361	347	374	395	412	391	420	444	463	432	465	491	512
		LO PR	110	117	128	136	116	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	170

* NOTE: Shaded areas are TVA and ARI Rating Conditio IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: *PC1360M41C*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1965	MBh	53.8	55.8	61.1	-	52.6	54.5	59.7	-	51.3	53.2	58.3	-	50.1	51.9	56.8	-	47.6	49.3	54.0	-	44.0	45.7	50.0	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	3.98	4.07	4.19	-	4.29	4.38	4.52	-	4.55	4.65	4.80	-	4.79	4.89	5.05	-	4.99	5.10	5.27	-	5.16	5.28	5.45	-
		AMPS	18.6	18.9	19.4	-	19.8	20.2	20.7	-	21.2	21.6	22.2	-	22.4	22.8	23.5	-	23.6	24.1	24.7	-	24.8	25.3	26.0	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	389	-	386	415	438	-	426	458	484	-
		LO PR	104	110	121	-	110	117	127	-	114	121	132	-	120	127	139	-	126	134	146	-	130	138	151	-
	1789	MBh	53.3	55.2	60.5	-	52.0	53.9	59.1	-	50.8	52.7	57.7	-	49.6	51.4	56.3	-	47.1	48.8	53.5	-	43.6	45.2	49.5	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	3.97	4.06	4.18	-	4.28	4.37	4.51	-	4.54	4.64	4.79	-	4.78	4.88	5.04	-	4.98	5.09	5.26	-	5.15	5.27	5.44	-
		AMPS	18.5	18.9	19.4	-	19.7	20.1	20.7	-	21.1	21.5	22.1	-	22.3	22.8	23.4	-	23.5	24.0	24.7	-	24.7	25.2	25.9	-
		HI PR	235	253	267	-	264	284	300	-	300	323	341	-	342	368	388	-	384	414	437	-	425	457	483	-
		LO PR	104	110	120	-	109	116	127	-	114	121	132	-	119	127	139	-	125	133	145	-	129	138	150	-
	1535	MBh	49.2	51.0	55.8	-	48.0	49.8	54.5	-	46.9	48.6	53.2	-	45.7	47.4	51.9	-	43.5	45.0	49.3	-	40.3	41.7	45.7	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
		Delta T	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	19	17	13	-
		KW	3.88	3.96	4.08	-	4.17	4.26	4.40	-	4.43	4.53	4.67	-	4.66	4.76	4.92	-	4.85	4.96	5.12	-	5.02	5.13	5.30	-
		AMPS	18.1	18.5	19.0	-	19.3	19.7	20.2	-	20.6	21.1	21.6	-	21.8	22.2	22.9	-	23.0	23.4	24.1	-	24.1	24.6	25.3	-
		HI PR	228	245	259	-	256	275	291	-	291	313	331	-	331	357	377	-	373	401	424	-	412	443	468	-
		LO PR	100	107	117	-	106	113	123	-	110	117	128	-	116	123	135	-	121	129	141	-	126	134	146	-
75	1965	MBh	54.7	56.3	61.0	65.5	53.4	55.0	59.6	63.9	52.2	53.7	58.1	62.4	50.9	52.4	56.7	60.9	48.4	49.8	53.9	57.8	44.8	46.1	49.9	53.6
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11
		KW	4.02	4.10	4.23	4.36	4.32	4.41	4.55	4.70	4.59	4.69	4.84	5.00	4.83	4.94	5.10	5.27	5.03	5.14	5.31	5.49	5.21	5.32	5.50	5.69
		AMPS	18.7	19.1	19.6	20.2	19.9	20.3	20.9	21.5	21.3	21.8	22.4	23.1	22.5	23.0	23.6	24.4	23.8	24.3	24.9	25.8	25.0	25.5	26.2	27.1
		HI PR	238	256	271	282	267	288	304	317	304	327	345	360	346	373	393	410	389	419	443	462	430	463	489	510
		LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162
	1789	MBh	54.2	55.8	60.4	64.8	52.9	54.5	59.0	63.3	51.7	53.2	57.6	61.8	50.4	**51.9**	56.2	60.3	47.9	49.3	53.4	57.3	44.4	45.7	49.4	53.0
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	**0.81**	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		Delta T	23	21	17	12	23	21	18	12	23	22	18	12	24	**22**	18	12	23	21	17	12	22	20	16	11
		KW	4.01	4.09	4.22	4.35	4.31	4.40	4.54	4.69	4.58	4.68	4.83	4.99	4.82	**4.92**	5.08	5.25	5.02	5.13	5.30	5.48	5.19	5.31	5.49	5.67
		AMPS	18.7	19.0	19.5	20.1	19.9	20.3	20.8	21.5	21.3	21.7	22.3	23.0	22.5	**23.0**	23.6	24.3	23.7	24.2	24.9	25.7	24.9	25.4	26.2	27.0
		HI PR	237	256	270	281	266	287	303	316	303	326	344	359	345	**371**	392	409	388	418	441	460	429	462	488	509
		LO PR	105	111	121	129	111	118	128	137	115	122	133	142	121	**128**	140	149	126	135	147	156	131	139	152	162
	1535	MBh	50.0	51.5	55.7	59.8	48.8	50.3	54.4	58.4	47.7	49.1	53.1	57.0	46.5	47.9	51.8	55.6	44.2	45.5	49.3	52.9	40.9	42.1	45.6	49.0
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
		Delta T	24	22	18	12	24	22	18	13	24	22	18	13	24	22	18	13	24	22	18	13	22	21	17	12
		KW	3.91	3.99	4.12	4.25	4.21	4.30	4.43	4.58	4.47	4.56	4.71	4.87	4.70	4.80	4.96	5.12	4.90	5.00	5.17	5.34	5.06	5.18	5.35	5.53
		AMPS	18.3	18.6	19.1	19.7	19.4	19.8	20.3	21.0	20.8	21.2	21.8	22.5	22.0	22.4	23.0	23.8	23.1	23.6	24.3	25.1	24.3	24.8	25.5	26.4
		HI PR	230	248	262	273	258	278	294	306	294	316	334	348	335	360	380	397	377	405	428	446	416	448	473	493
		LO PR	101	108	118	126	107	114	125	133	111	119	129	138	117	125	136	145	123	130	142	152	127	135	147	157

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1965	MBh	55.7	56.9	60.8	65.0	54.4	55.6	59.4	63.5	53.1	54.3	58.0	62.0	51.8	52.9	56.6	60.5	49.2	50.3	53.7	57.4	45.6	46.6	49.8	53.2
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.99	0.80	0.60	1.00	1.00	0.81	0.61
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	24	21	16	23	23	20	16	21	22	19	15
		KW	4.05	4.13	4.26	4.40	4.36	4.45	4.59	4.74	4.63	4.73	4.88	5.04	4.87	4.98	5.14	5.31	5.07	5.19	5.36	5.54	5.25	5.37	5.55	5.73
		AMPS	18.8	19.2	19.7	20.3	20.1	20.5	21.0	21.7	21.5	21.9	22.5	23.2	22.7	23.2	23.8	24.6	23.9	24.4	25.1	26.0	25.2	25.7	26.4	27.3
		HI PR	241	259	273	285	270	291	307	320	307	330	349	364	350	376	397	414	393	423	447	466	435	468	494	515
		LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	158	133	141	154	164
	1789	MBh	55.1	56.3	60.2	64.4	53.9	55.0	58.8	62.9	52.6	53.7	57.4	61.4	51.3	52.4	**56.0**	59.9	48.7	49.8	53.2	56.9	45.1	46.1	49.3	52.7
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	1.00	0.93	**0.76**	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59
		Delta T	26	25	21	17	26	25	22	17	26	25	22	17	26	25	**22**	17	25	25	22	17	23	23	20	16
		KW	4.04	4.12	4.25	4.39	4.35	4.44	4.58	4.73	4.62	4.72	4.87	5.03	4.86	4.96	**5.13**	5.30	5.06	5.17	5.34	5.52	5.24	5.36	5.53	5.72
		AMPS	18.8	19.2	19.7	20.3	20.0	20.4	21.0	21.6	21.4	21.9	22.5	23.2	22.7	23.1	**23.8**	24.5	23.9	24.4	25.1	25.9	25.1	25.6	26.4	27.2
		HI PR	240	258	273	284	269	290	306	319	306	329	348	363	349	375	**396**	413	392	422	446	465	433	466	492	514
		LO PR	106	112	123	131	112	119	130	138	116	123	135	144	122	130	**142**	151	128	136	148	158	132	141	153	163
	1535	MBh	50.9	52.0	55.6	59.4	49.7	50.8	54.3	58.0	48.5	49.6	53.0	56.6	47.3	48.4	51.7	55.3	45.0	46.0	49.1	52.5	41.7	42.6	45.5	48.6
		S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
		Delta T	27	26	22	18	27	26	23	18	27	26	23	18	27	26	23	18	27	26	22	18	25	24	21	17
		KW	3.94	4.02	4.15	4.28	4.24	4.33	4.47	4.61	4.50	4.60	4.75	4.91	4.74	4.84	5.00	5.16	4.94	5.04	5.21	5.38	5.11	5.22	5.39	5.57
		AMPS	18.4	18.7	19.2	19.8	19.6	20.0	20.5	21.1	21.0	21.4	22.0	22.6	22.1	22.6	23.2	24.0	23.3	23.8	24.5	25.3	24.5	25.0	25.7	26.6
		HI PR	233	250	264	276	261	281	297	309	297	320	337	352	338	364	384	401	380	409	432	451	420	452	478	498
		LO PR	102	109	119	127	108	115	126	134	113	120	131	139	118	126	137	146	124	132	144	153	128	136	149	159
NOTE: Shaded area reflects ARI rating conditions																										
85	1965	MBh	56.7	57.8	60.5	64.5	55.3	56.4	59.1	63.0	54.0	55.1	57.7	61.5	52.7	53.7	56.3	60.0	50.1	51.0	53.5	57.0	46.4	47.3	49.5	52.8
		S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		Delta T	26	25	24	21	26	26	24	21	25	26	24	21	25	25	24	21	23	24	24	21	22	22	22	19
		KW	4.08	4.16	4.30	4.43	4.39	4.49	4.63	4.78	4.67	4.77	4.92	5.09	4.91	5.02	5.18	5.36	5.12	5.23	5.40	5.59	5.30	5.41	5.59	5.78
		AMPS	19.0	19.3	19.9	20.5	20.2	20.6	21.2	21.8	21.7	22.1	22.7	23.4	22.9	23.4	24.0	24.8	24.1	24.6	25.3	26.2	25.4	25.9	26.6	27.5
		HI PR	243	262	276	288	273	293	310	323	310	334	352	368	353	380	401	419	397	428	452	471	439	472	499	520
		LO PR	107	114	124	132	113	120	131	140	118	125	137	145	123	131	143	153	129	138	150	160	134	142	155	166
	1789	MBh	56.1	57.2	59.9	63.9	54.8	55.9	58.5	62.4	53.5	54.5	57.1	60.9	52.2	53.2	55.7	59.4	49.6	50.5	52.9	56.5	45.9	46.8	49.0	52.3
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77
		Delta T	27	27	26	22	28	27	26	22	27	27	26	22	27	27	26	23	25	26	26	22	24	24	24	21
		KW	4.07	4.15	4.29	4.42	4.38	4.47	4.62	4.77	4.66	4.76	4.91	5.07	4.90	5.01	5.17	5.34	5.10	5.22	5.39	5.57	5.28	5.40	5.58	5.77
		AMPS	18.9	19.3	19.8	20.4	20.2	20.6	21.1	21.8	21.6	22.0	22.7	23.4	22.8	23.3	24.0	24.7	24.1	24.6	25.3	26.1	25.3	25.8	26.6	27.5
		HI PR	242	261	275	287	272	293	309	322	309	333	351	366	352	379	400	417	396	426	450	470	438	471	497	519
		LO PR	107	114	124	132	113	120	131	139	117	125	136	145	123	131	143	152	129	137	150	160	133	142	155	165
	1535	MBh	51.8	52.8	55.3	59.0	50.6	51.6	54.0	57.6	49.4	50.3	52.7	56.2	48.2	49.1	51.4	54.9	45.8	46.7	48.9	52.1	42.4	43.2	45.3	48.3
		S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		Delta T	28	28	26	23	29	28	27	23	29	28	27	23	29	29	27	23	27	28	27	23	25	26	25	22
		KW	3.97	4.06	4.18	4.32	4.27	4.37	4.50	4.65	4.54	4.64	4.79	4.95	4.78	4.88	5.04	5.21	4.98	5.09	5.25	5.43	5.15	5.26	5.44	5.62
		AMPS	18.5	18.9	19.4	20.0	19.7	20.1	20.7	21.3	21.1	21.5	22.1	22.8	22.3	22.8	23.4	24.1	23.5	24.0	24.7	25.5	24.7	25.2	25.9	26.8
		HI PR	235	253	267	279	264	284	300	313	300	323	341	355	342	368	388	405	384	414	437	455	425	457	482	503
		LO PR	104	110	120	128	109	116	127	135	114	121	132	141	119	127	139	148	125	133	145	155	129	138	150	160

* NOTE: Shaded areas are TVA and ARI Rating Conditio IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **3 degrees** of the typical (**Delta T**) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

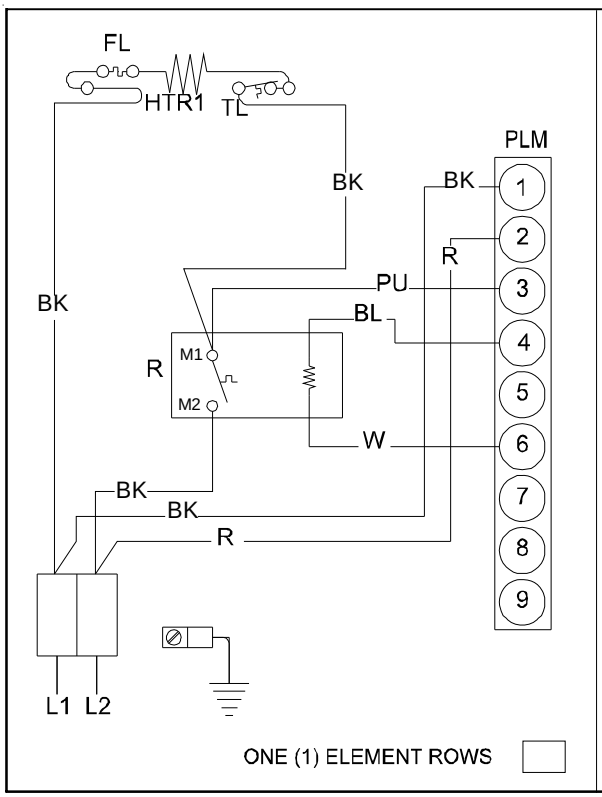
A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

WIRING DIAGRAMS

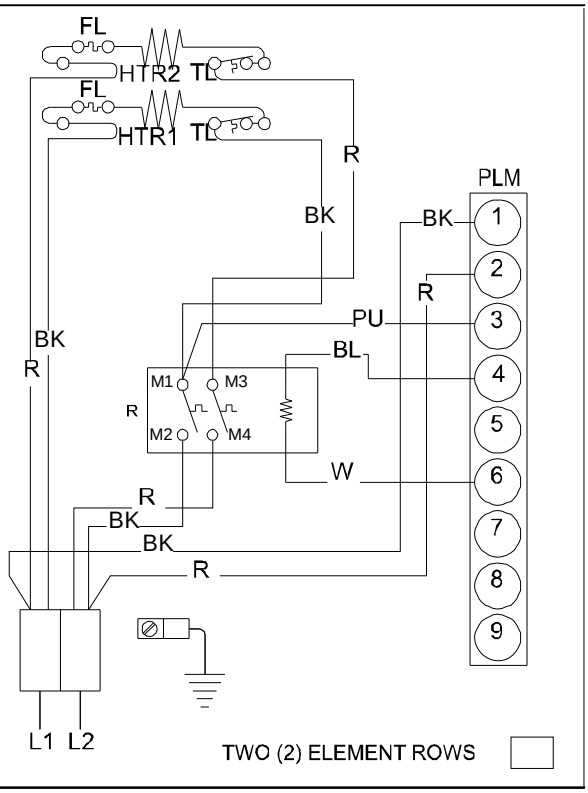
HKR***

WARNING

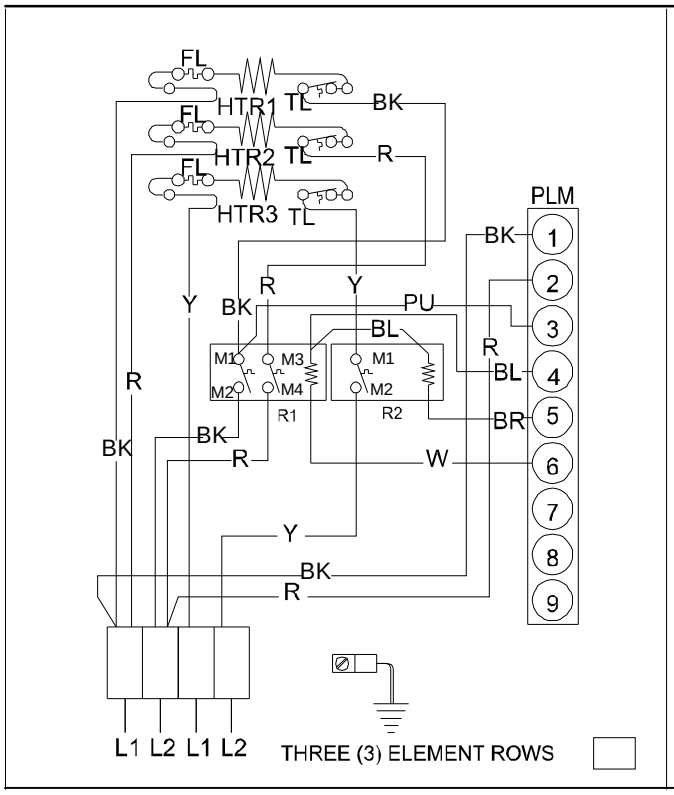
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



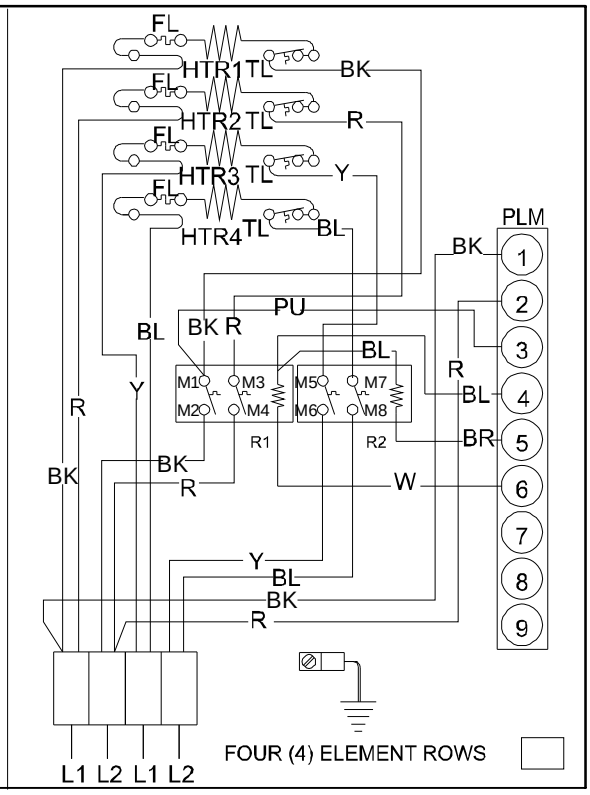
5 KW



10 KW



15 KW

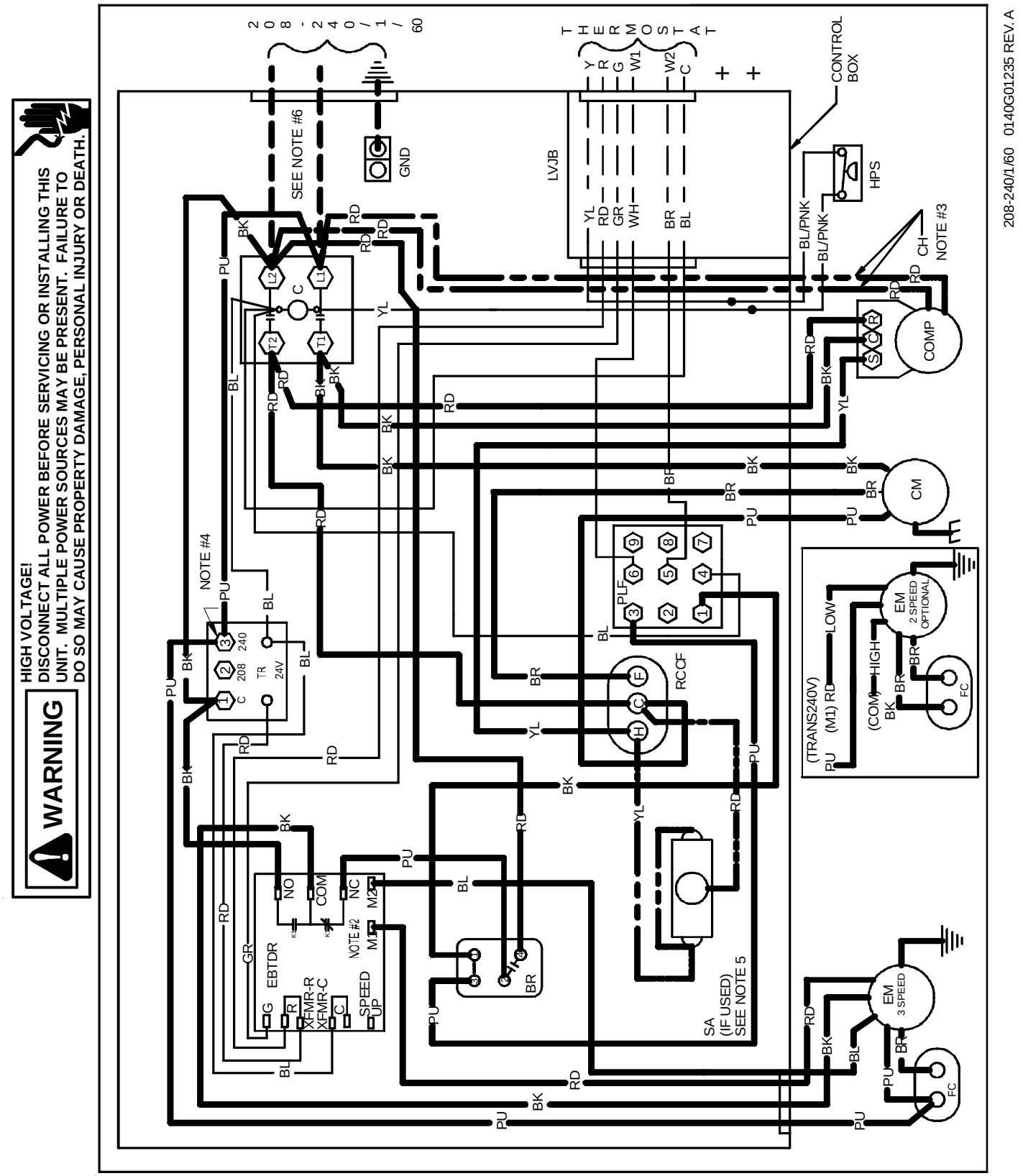


20 KW

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

*PC13[36]M41**

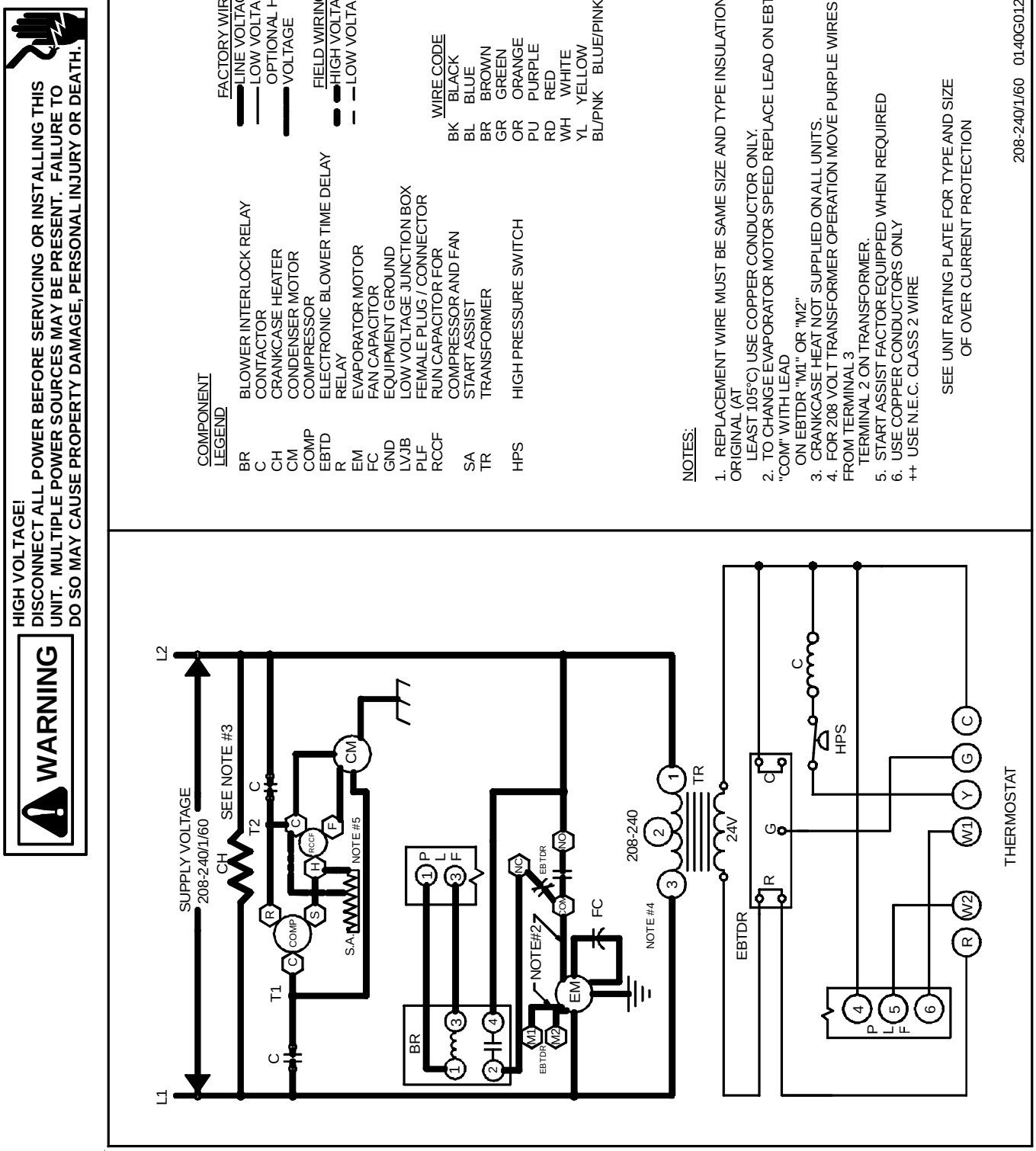


208-240/1/60 0140G01235 REV. A

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

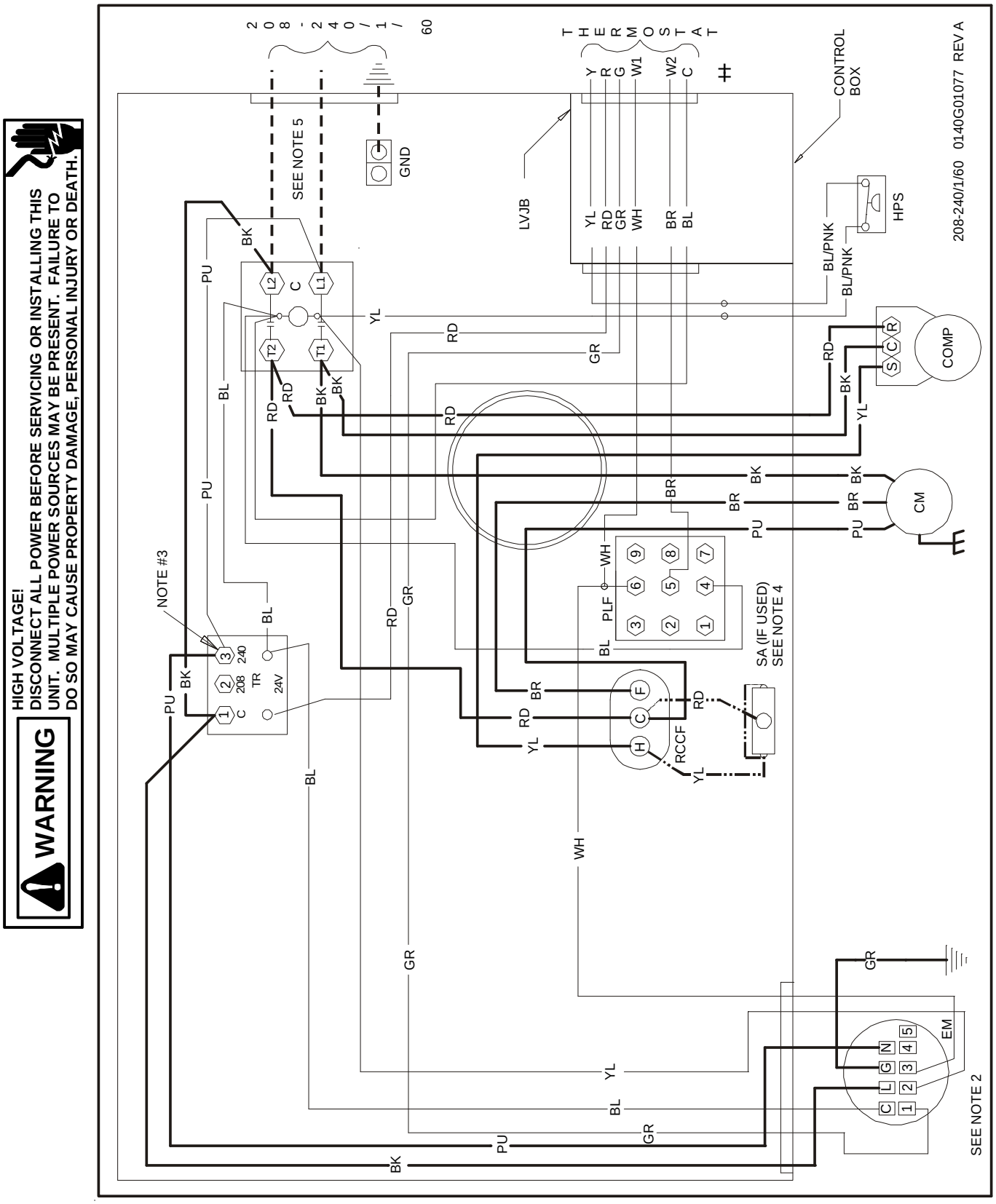
*PC13[36]M41**



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

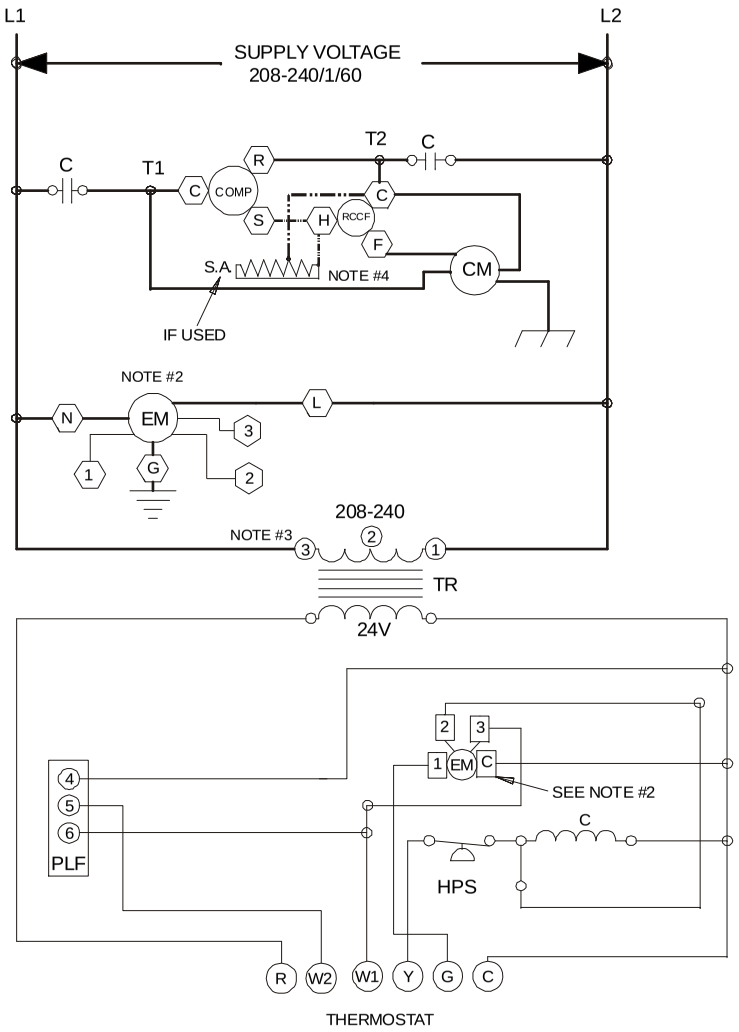
*PC13[48-60]M41**



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



COMPONENT LEGEND

C	CONTACTOR
CM	CONDENSER MOTOR
COMP	COMPRESSOR
EM	EVAPORATOR MOTOR
GND	EQUIPMENT GROUND
LVJB	LOW VOLTAGE JUNCTION BOX
PLF	FEMALE PLUG / CONNECTOR
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
SA	START ASSIST
TR	TRANSFORMER
HPS	HIGH PRESSURE SWITCH

FACTORY WIRING
- LINE VOLTAGE
- LOW VOLTAGE
- OPTIONAL HIGH VOLTAGE

FIELD WIRING
- HIGH VOLTAGE
- LOW VOLTAGE

WIRE CODE

BK	BLACK
BL	BLUE
BR	BROWN
GR	GREEN
OR	ORANGE
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW
BL/PNK	BLUE/PINK STRIPE

NOTES:

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE WHITE AND YELLOW LEADS FROM EM"2" AND "3" TO "4" AND "5". IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. START ASSIST FACTOR EQUIPPED WHEN REQUIRED.
5. USE COPPER CONDUCTORS ONLY.

++ USE N.E.C. CLASS 2 WIRE

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

208-240/1/60 0140G01077 REV A