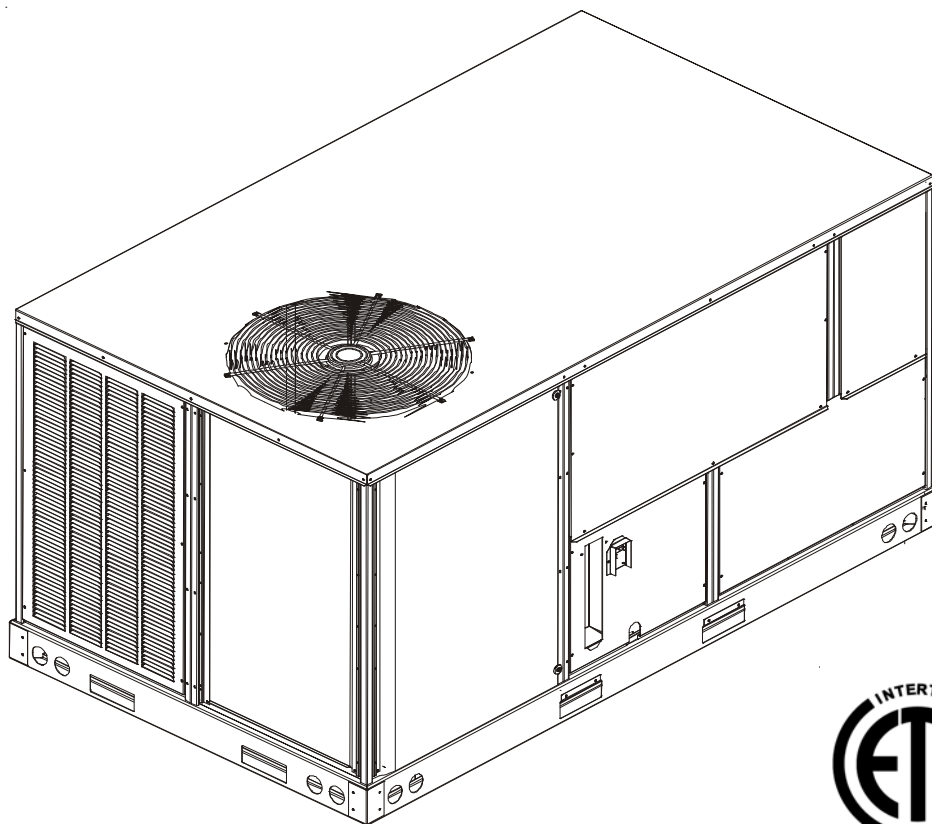


TECHNICAL INFORMATION MANUAL

CPG Package Gas Units 208-230V Single Phase, Multi-Position 3, 4 & 5 Tons with R410A

Models listed
on Page 3

- Refer to Service Manual RS6412000 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.



Goodman

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 performed by an unqualified person.

RT6412000 Rev. 4
April 2009

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

Light Commercial Packaged Unit NOMENCLATURE

	C	P	G	060	070	1	D	X	X	X		
	1	2	3	4,5,6	7,8,9	10	11	12	13	14		
											Factory Installed Options (12, 13, 14)	
Brand											Special Features	
C	Commercial										X	No Features
Configuration												
P	Packaged Multi-Position											
Application											Special Treatment	
C	Cooling										X	No Features
G	Gas Heat										J	Ultra Gold Condenser Coil
H	Heat Pump										S	Stainless Steel Heat Exchanger
Nominal Gross Cooling Capacity											Economizer Options (Factory Installed)	
036	3 Tons	120	10 Tons								X	No Economizer
048	4 Tons	150	12 1/2 Tons									
060	5 Tons	180	15 Tons									
072	6 Tons	240	20 Tons									
090	7 1/2 Tons	300	25 Tons									
102	8 1/2 Tons											
Heating Capacity											Supply Fan/Drive Type/Motor	
CPG											B Belt Drive	
070	70,000 Btuh Heating Capacity										D	Direct Drive
105	105,000 Btuh Heating Capacity										H	High Static Belt Drive
140	140,000 Btuh Heating Capacity											
210	210,000 Btuh Heating Capacity											
350	350,000 Btuh Heating Capacity											
400	400,000 Btuh Heating Capacity											
											Voltage	
CPC/CPH											1 208v 1 Phase	
XXX	No Heat										3	208v 3 Phase
010	10 KW ELECTRIC HEATER										4	460v 3 Phase
015	15 KW ELECTRIC HEATER										7	575v 3 Phase
020	20 KW ELECTRIC HEATER											
025	25 KW ELECTRIC HEATER											
030	30 KW ELECTRIC HEATER											
045	45 KW ELECTRIC HEATER											
060	60 KW ELECTRIC HEATER											
060	60 KW ELECTRIC HEATER											

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information. *NOTE: All unit combinations are not listed below. Models where performance does not change are not listed individually.*

CPG0360701DXXX

CPG0361051DXXX

CPG0480701DXXX

CPG0481051DXXX

CPG0600701DXXX

CPG0601401DXXX



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.



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.



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.

PRODUCT DESIGN

CPG Light Commercial Package Gas Units are designed for outdoor installations only, primarily in light commercial applications and are available in 208/230v single phase, 208/230v three phase, 460v three phase and 575v three phase applications in 3 thru 5 ton sizes.

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.

Filters are factory supplied in the return air compartment upstream from the indoor coil. 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" pipe is provided for removal of condensate water from the indoor coil. (Do not reduce the drain line size).

Refrigerant flow control is achieved by use of flowrator.

CPG13 units use the FasTest Access Fitting System which consists of 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. **NOTE: The core must not be removed from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.**

CPG***XXX1D indoor blower motors are PSC type motors with the exception of CPG060XXX1D units which have X-13 indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The X-13 features 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 filters, across the coil and back into the conditioned space by the indoor blower.

CPG series package units use the Compliant Scroll compressor; there are a number of design characteristics which are different from the traditional reciprocating compressor.

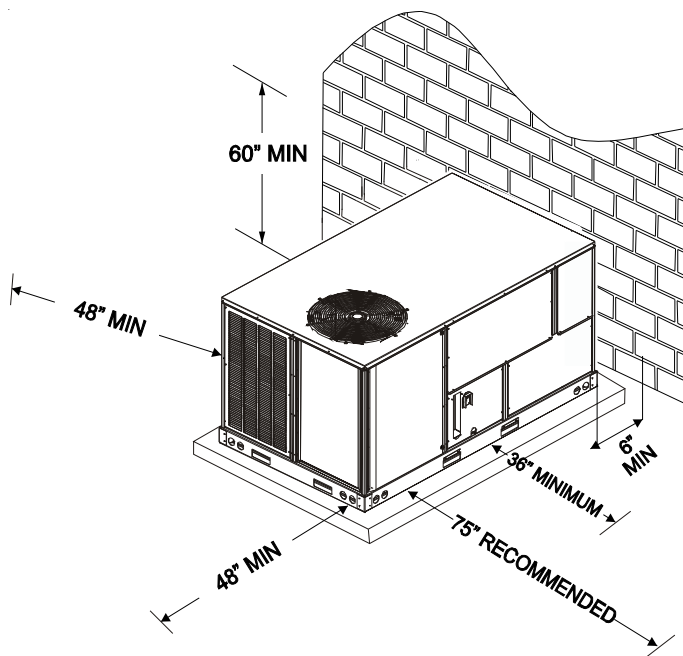
- Due to their design Scroll compressors are inherently more tolerant of liquid refrigerant. **NOTE:** Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued flood back or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.

- These Scroll compressors use "POE" or polyolester oil which is NOT compatible with mineral oil based lubricants like 3GS. "POE" oil must be used if additional oil is required.

- Compliant scroll compressors perform "quiet" shutdowns that allow the compressor to restart immediately without the need for a time delay. This compressor will restart even if the system has not equalized.

- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

Location and Clearances

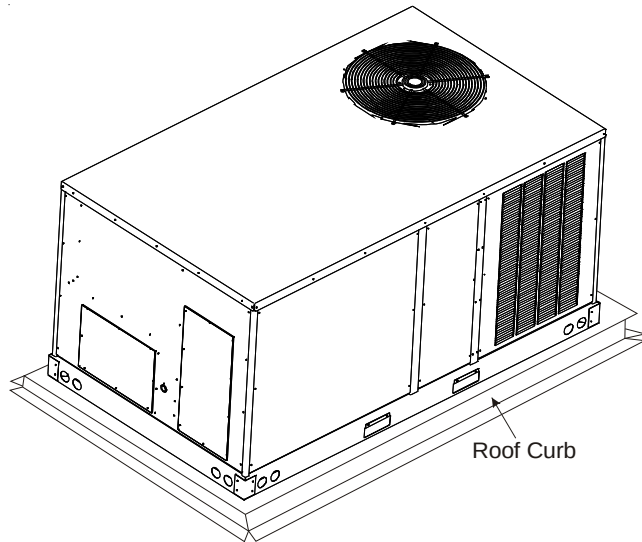


Outside Slab - Multi-positional

NOTE: A clearance of 48" is recommended on all sides of the unit and 75" total clearance is recommended on the main control panel side to facilitate possible fan shaft, coil, electric heat and gas furnace removal. See figure above.

Roof overhang should be no more than 36" and provisions made to deflect the warm discharge air out from the overhang. Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.

PRODUCT DESIGN



Rooftop Installation - Multi-positional

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 National Fuel Gas Code ANSI Z223.1.

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.

Corner & Center of Gravity Locations

NOTES:

1. Weights are for basic gas unit; no options.
2. Center of gravity's weight are for gas units without options.

Provisions for forks have been included in the unit base frame on three sides. If unit is moved by forklift, no other fork locations are approved.

CAUTION

If units are lifted two at a time, the fork holes on the condenser end of the unit must NOT be used. Minimum fork length is 42" to prevent damage to the unit; however, 48" is recommended.

3 TON

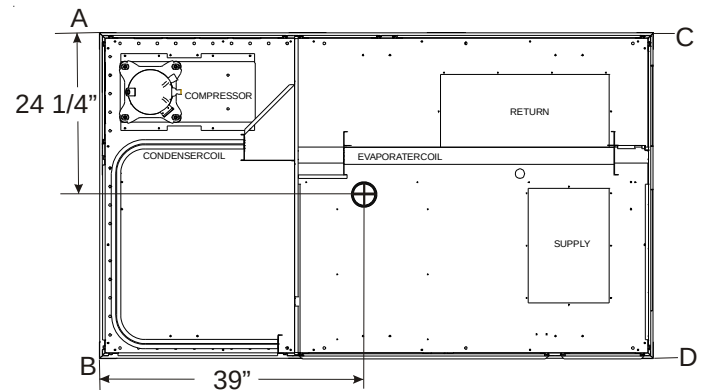
CPG036XXX**XXX - CORNER WEIGHTS					
Chassis	Models	A	B	C	D
#1	3 Tons	178 lbs.	183 lbs.	148 lbs.	151 lbs.

4 TON

CPG048XXX**XXX - CORNER WEIGHTS					
Chassis	Models	A	B	C	D
#1	4 Tons	179 lbs.	184 lbs.	149 lbs.	153 lbs.

5 TON

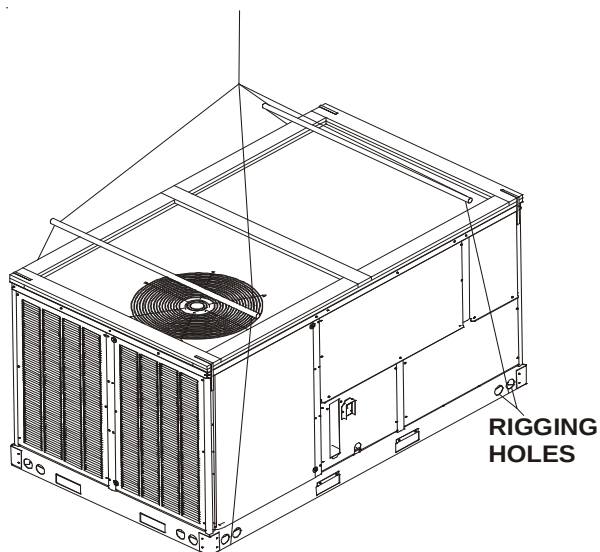
CPG060XX**XXX - CORNER WEIGHTS					
Chassis	Models	A	B	C	D
#1	5 Tons	188 lbs.	187 lbs.	153 lbs.	155 lbs.



CENTER OF GRAVITY - 3 - 5 TONS

PRODUCT DESIGN

Rigging Information



1. Unit must be lifted by the four lifting holes located at the base frame corners.
2. Lifting cables should be attached to the unit with shackles.
3. The distance between the crane hook and the top of the unit must not be less than 60".
4. Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from forklift damage. Removal is accomplished by extracting the sheet metal retainers and pulling the struts through the base of the unit. Refer to rigging label on the unit.



CAUTION

To prevent severe damage to the bottom of the unit, do not forklift unit after wood struts have been removed.

High Altitude Derate - U.S. Installations Only

IMPORTANT NOTE: The gas/electric units naturally derate with altitude. Do not attempt to increase the firing rate by changing orifices or increasing the manifold pressure. This can cause poor combustion and equipment failure. At all altitudes, the manifold pressure must be within 0.3 inches W.C. of that listed on the nameplate for the fuel used. At all altitudes and with either fuel, the air temperature rise must be within the range listed on the unit nameplate. Refer to the Installation Manual provided with the LP kit for conversion from natural gas to propane gas and for altitude adjustments.

When this package unit is installed at high altitude, the appropriate High Altitude orifice kit must be installed. As altitude increases, there is a natural reduction in the density of both the gas fuel and combustion air. This kit will provide the proper design certified input rate within the specified altitude range. High altitude kits are not approved for use in Canada. For installations above 2,000 feet, use kit HAKT36300. The HAKT36300 kit is used for both Natural and LP gas at high altitudes.

Use LPKT36150 or LPKT180300 propane conversion kit for propane conversions at altitudes below 2000 feet. Natural gas installations below 2000 feet do not require a kit.

For propane conversions above 2000 feet, high altitude kit HAKT36300 is required in addition to LPKT36150 or LPKT180300 propane conversion kit.

NATURAL GAS AND LP GAS INSTALLATIONS AT ALTITUDES > 2000 FT.

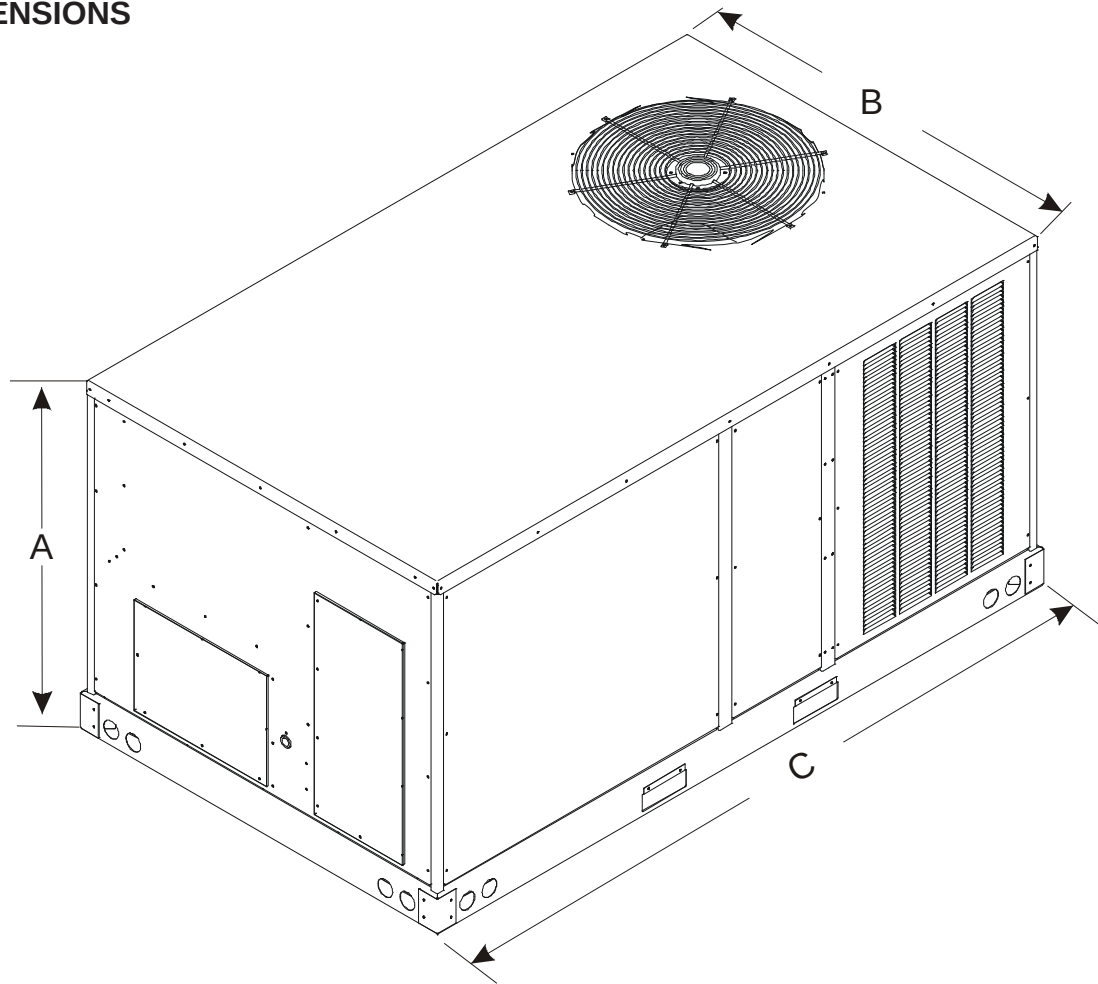
INPUT/BURNER	HIGH ALTITUDE KIT	35,000 BTUH NAT/33,000 BTUH/L.P.							
		ELEVATION ABOVE SEA-LEVEL (FEET)							
		2000	3000	4000	4500	5000	6000	7000	8000
U.S. BURNER ORIFICE	HAKT36300	35/53	36/53	36/53	-	37/53	37/53	38/53	39/54
CANADA BURNER ORIFICE	HAKT36300	35/53	-	-	39/54	-	-	-	-

INPUT/BURNER	HIGH ALTITUDE KIT	50,000 BTUH NAT/45,000 BTUH/L.P.							
		ELEVATION ABOVE SEA-LEVEL (FEET)							
		2000	3000	4000	4500	5000	6000	7000	8000
U.S. BURNER ORIFICE	HAKT36300	29/48	30/48	30/49	-	30/49	30/49	31/50	31/50
CANADA BURNER ORIFICE	HAKT36300	29/48	-	-	31/50	-	-	-	-

PRODUCT DIMENSIONS

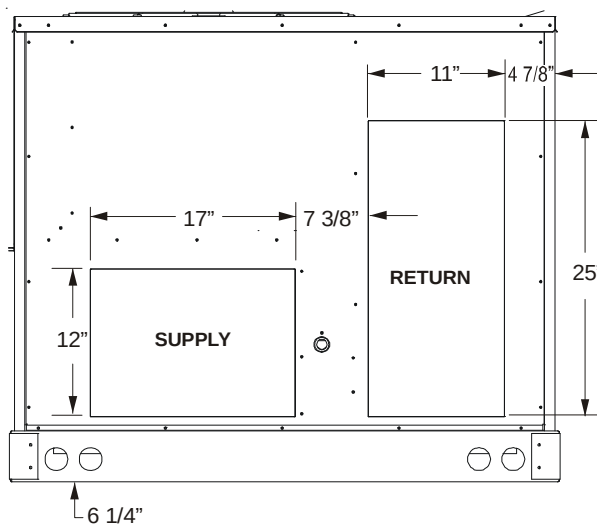
UNIT DIMENSIONS

CPG[036-060]XXX1DXXX

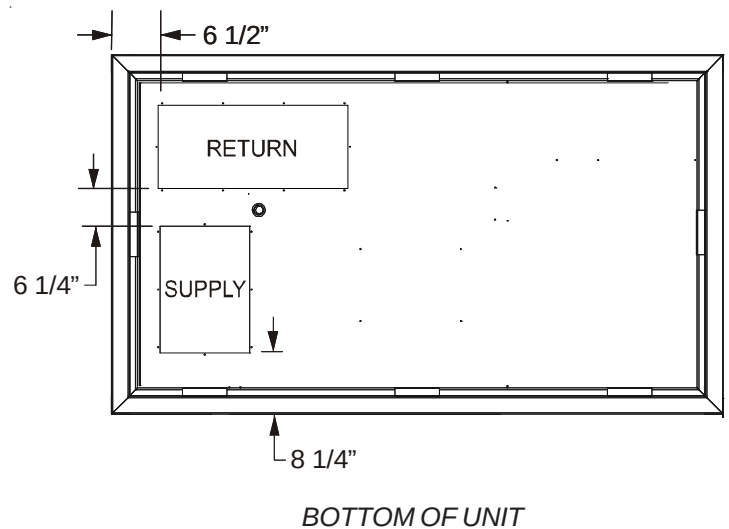


CPG***XXX**XXX				
Chassis	Models	A	B	C
#1	3-5 Tons	40-7/8"	48-1/2"	81-1/4"

HORIZONTAL DISCHARGE



VERTICAL DISCHARGE



PACKAGE GAS SPECIFICATIONS

CPG036XXX1DXXX

		CPG0360701DXXX	CPG0361051DXXX
COOLING CAPACITY	COOLING CAPACITY, BTUH	35,000	35,000
	SEER/EER	13/11.3	13/11.3
HEATING CAPACITY	HEATING INPUT	70,000	105,000
	HEATING OUTPUT	56,000	84,000
	STEADY STATE EFFICIENCY	80	80
	TEMPERATURE RISE (°F)	30 - 60	30 - 65
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208-230/1/60	208-230/1/60
	UNIT AMPS (TOTAL)	20.6	20.6
	MINIMUM CIRCUIT AMPACITY	25	25
	MAXIMUM OVERCURRENT PROTECTION ⁽³⁾	40	40
HEATING SECTION	NUMBER OF BURNERS	2	3
	ORIFICE SIZE NATURAL	34	34
	ORIFICE SIZE LP	52	52
	PRESSURE SWITCH SETTING	0.34	0.34
COMPRESSOR	TYPE	SCROLL	SCROLL
	RATED LOAD AMPS	16.7	16.7
	LOCKED ROTOR AMPS	79	79
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4
	RPM	1090	1090
	RATED LOAD AMPS	1.40	1.40
	LOCKED ROTOR AMPS	2.9	2.9
CONDENSER FAN	BLADE DIAMETER(") / # OF BLADES	22/4	22/4
	NOMINAL CFM	3,800	3,800
CONDENSER COIL	FACE AREA - SQ. FT.	18	18
	NUMBER OF ROWS	1	1
	FINS PER INCH	22	22
EVAPORATOR BLOWER MOTOR	HORSEPOWER - TYPE	1/3 - DIRECT DRIVE	1/3 - DIRECT DRIVE
	NO. OF SPEEDS	PSC - 3	PSC - 3
	FULL LOAD AMPS	2.5	2.5
	LOCKED ROTOR AMPS	--	--
	MOTOR SPEED TAP - COOLING	LOW SPEED	LOW SPEED
	RPM	890	890
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10X9	10X9
	RATED SCFM COOLING	1200	1200
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5
EVAPORATOR COIL	FACE AREA - SQ. FT.	5.4	5.4
	NUMBER OF ROWS	3	3
	FINS PER INCH	16	16
HEATING LIMITS	PRIMARY LIMIT SETTING (°F)	200	200
	AUXILIARY LIMIT SETTING (°F)	160	160
	ROLLOUT LIMIT SETTING (°F)	300	300
GENERAL INFORMATION	FILTER SIZE - SQ. FT. ⁽²⁾	(4) 14 X 20 x 2	(4) 14 X 20 x 2
	DRAIN SIZE (INCHES)	3/4"	3/4"
	EXPANSION DEVICE	Orifice (0.068)	Orifice (0.068)
	REFRIGERANT CHARGE R-410A (Oz.)	90	90
	POWER SUPPLY ENTRANCE SIZE (INCHES)	Locating Dimple	Locating Dimple
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	Locating Dimple	Locating Dimple
	LOW PRESSURE SWITCH (OPEN/CLOSE-PSIG)	22/50	22/50
	HIGH PRESSURE SWITCH (OPENS-PSIG)	660	660
	SHIPPING WEIGHT LBS.	680	680
	OPERATING WEIGHT LBS.	660	660

(1) Units installed in Canada are certified only to 4500 feet.

(2) Calculated internal filter size based on air velocity of 300 ft/min. and applies to disposable filters **only**.

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

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.

PACKAGE GAS SPECIFICATIONS

CPG048XXX1DXXX

		CPG0480701DXXX	CPG0481051DXXX
COOLING CAPACITY	COOLING CAPACITY, BTUH	46,000	46,000
	SEER/EER	13/11.3	13/11.3
HEATING CAPACITY	HEATING INPUT	70,000	105,000
	HEATING OUTPUT	56,000	84,000
	A.F.U.E. (%)	80	80
	TEMPERATURE RISE (°F)	25 - 55	25 - 55
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208-230/1/60	208-230/1/60
	UNIT AMPS (TOTAL)	24.1	24.1
	MINIMUM CIRCUIT AMPACITY	29	29
	MAXIMUM OVERCURRENT PROTECTION ⁽³⁾	45	45
HEATING SECTION	NUMBER OF BURNERS	2	3
	ORIFICE SIZE NATURAL	34	34
	ORIFICE SIZE LP	52	52
	PRESSURE SWITCH SETTING	0.34	0.34
COMPRESSOR	TYPE	SCROLL	SCROLL
	RATED LOAD AMPS	19.9	19.9
	LOCKED ROTOR AMPS	109	109
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4
	RPM	1090	1090
	RATED LOAD AMPS	1.40	1.40
	LOCKED ROTOR AMPS	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (") / # OF BLADES	22/4	22/4
	NOMINAL CFM	3,800	3,800
CONDENSER COIL	FACE AREA - SQ. FT.	18	18
	NUMBER OF ROWS	1	1
	FINS PER INCH	22	22
EVAPORATOR BLOWER MOTOR	HORSEPOWER - TYPE	1/2 - DIRECT DRIVE	1/2 - DIRECT DRIVE
	NO. OF SPEEDS	PSC - 3	PSC - 3
	FULL LOAD AMPS	2.9	2.9
	LOCKED ROTOR AMPS	4.8	4.8
	MOTOR SPEED TAP - COOLING	Medium	Medium
	RPM	1000	1000
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 9	10 x 9
	RATED SCFM COOLING	1600	1600
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.6	0.6
EVAPORATOR COIL	FACE AREA - SQ. FT.	7.8	7.8
	NUMBER OF ROWS	4	4
	FINS PER INCH	16	16
HEATING LIMITS	PRIMARY LIMIT SETTING (°F)	200	200
	AUXILIARY LIMIT SETTING (°F)	160	160
	ROLLOUT LIMIT SETTING (°F)	300	300
GENERAL INFORMATION	FILTER SIZE - SQ. FT. ⁽²⁾	(4) 14 X 20 x 2	(4) 14 X 20 x 2
	DRAIN SIZE (INCHES)	3/4"	3/4"
	EXPANSION DEVICE	Orifice (0.076)	Orifice (0.076)
	REFRIGERANT CHARGE R-410A (Oz.)	110	110
	POWER SUPPLY ENTRANCE SIZE (INCHES)	Locating Dimple	Locating Dimple
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	Locating Dimple	Locating Dimple
	LOW PRESSURE SWITCH (OPEN/CLOSE-PSIG)	22/50	22/50
	HIGH PRESSURE SWITCH (OPENS-PSIG)	660	660
	SHIPPING WEIGHT LBS.	685	685
	OPERATING WEIGHT LBS.	665	665

(1) Units installed in Canada are certified only to 4500 feet.

(2) Calculated internal filter size based on air velocity of 300 ft/min. and applies to disposable filters **only**.

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

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.

PACKAGE GAS SPECIFICATIONS

CPG060XXX1DXXX

		CPG0601401DXXX
COOLING CAPACITY	COOLING CAPACITY, BTUH	59,500
	SEER/EER	13/11.3
HEATING CAPACITY	HEATING INPUT	140,000
	HEATING OUTPUT	112,000
	A.F.U.E. (%)	80
	TEMPERATURE RISE (°F)	35 - 65
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208-230/1/60
	UNIT AMPS (TOTAL)	35.4
	MINIMUM CIRCUIT AMPACITY	42
	MAXIMUM OVERCURRENT PROTECTION ⁽³⁾	60
HEATING SECTION	NUMBER OF BURNERS	4
	ORIFICE SIZE NATURAL	34
	ORIFICE SIZE LP	52
	PRESSURE SWITCH SETTING	0.34
COMPRESSOR	TYPE	SCROLL
	RATED LOAD AMPS	26.4
	LOCKED ROTOR AMPS	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4
	RPM	1090
	RATED LOAD AMPS	1.40
	LOCKED ROTOR AMPS	2.9
CONDENSER FAN	BLADE DIAMETER(") / # OF BLADES	22/4
	NOMINAL CFM	3,800
CONDENSER COIL	FACE AREA - SQ. FT.	17.5
	NUMBER OF ROWS	2
	FINS PER INCH	18
EVAPORATOR BLOWER MOTOR	HORSEPOWER - TYPE	1.0 - DIRECT DRIVE
	NO. OF SPEEDS	X-13 - 5
	FULL LOAD AMPS	7.6
	LOCKED ROTOR AMPS	---
	MOTOR SPEED TAP - COOLING	T4
	RPM	1050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	11 X 10
	RATED SCFM COOLING	2000
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.6
EVAPORATOR COIL	FACE AREA - SQ. FT.	7.8
	NUMBER OF ROWS	4
	FINS PER INCH	16
HEATING LIMITS	PRIMARY LIMIT SETTING (°F)	200
	AUXILIARY LIMIT SETTING (°F)	160
	ROLLOUT LIMIT SETTING (°F)	300
GENERAL INFORMATION	FILTER SIZE - SQ. FT. ⁽²⁾	(4) 14 X 20 x 2
	DRAIN SIZE (INCHES)	3/4"
	EXPANSION DEVICE	Orifice (0.082)
	REFRIGERANT CHARGE R-410A (Oz.)	165
	POWER SUPPLY ENTRANCE SIZE (INCHES)	Locating Dimple
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	Locating Dimple
	LOW PRESSURE SWITCH (OPEN/CLOSE-PSIG)	22/50
	HIGH PRESSURE SWITCH (OPENS-PSIG)	660
	SHIPPING WEIGHT LBS.	700
	OPERATING WEIGHT LBS.	680

(1) Units installed in Canada are certified only to 4500 feet.

(2) Calculated internal filter size based on air velocity of 300 ft/min. and applies to disposable filters **only**.

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

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.

ACCESSORIES

CPG-/CPC- ACCESSORIES	
14CURB3672	3 - 5 Ton Roof Curb 14" Tall
14CURB90150	7.5 - 12.5 Ton Roof Curb 14" Tall
DNECONGS3672	3 - 5 Ton Downflow Economizer for CPC/CPG
DNECONGS90150	7.5 - 10 Ton Downflow Economizer for CPC/CPG
HZECONGS3672	3 - 5 Ton Horizontal Economizer for CPC/CPG
HZECONGS90150	7.5 - 10 Ton Horizontal Economizer for CPC/CPG
25FD3672	3 - 5 Ton 25% Manual Fresh Air Damper
25MFD3672	3 - 5 Ton 25% Motorized Fresh Air Damper
25FD90150	7.5 - 10 Ton 25% Manual Fresh Air Damper
25MFD90150	7.5 - 10 Ton 25% Motorized Fresh Air Damper
PE36722	3 - 5 Ton Power Exhaust 208/230v CP* Unit
PE36724	3 - 5 Ton Power Exhaust 460v CP* Unit
PE901502	7.5 - 10 Ton Power Exhaust 208/230v CP* Unit
PE901504	7.5 - 10 Ton Power Exhaust 460v CP* Unit
BRD3672	Barometric Relief Damper
CDK36	3 Ton Concentric Duct Kit
CDK4872	4 - 5 Ton Concentric Duct Kit
CDK90102	7.5 - 8.5 Concentric Duct Kit
CDK120	10 Ton Concentric Duct Kit
DNSQRRND36	3 Ton Downflow Square to Round Adapter 16" Round
DNSQRRND4872	4 - 5 Ton Downflow Square to Round Adapter 18" Round
DNSQRRND90	7.5 Ton Downflow Square to Round Adapter 20" Round
HAKT36300	High Altitude Kit - CPG 3 - 5 ton units
LPKT36150	LP Conversion Kit - CPG 3 -12.5 Ton
HSKT***	High Static Kit
HAILGD01	Hail Guard Kit - 3 - 5 Ton
HAILGD02	Hail Guard Kit - 7.5 - 10 Ton
EHK**	Heater Kit - CPC units
LAKT-01	Low Ambient Kit 3 - 5 Tons
LAKT-02	Low Ambient Kit 7.5 - 10 Tons

** Complete listing of EHK kits listed on electrical data page in CPC manuals

***NOTE: High static airflow requires installation of high static kit (HSKT*), or factory-built High Static model.

BLOWER PERFORMANCE DATA

CPG036XXX1DXXX

DIRECT DRIVE - 3 TON

Standard motor Down Shot Blower Performance CPG036

Standard Cfm	Static	Amps	Watts	RPM	Speed
659	0.7	1.16	260	975	LOW
854	0.6	1.31	294	911	
942	0.5	1.39	307	864	
1012	0.4	1.46	322	816	
1079	0.3	1.53	336	768	
1109	0.2	1.57	342	728	
1164	0.1	1.63	354	669	
825	0.8	1.55	346	1035	MED
1011	0.7	1.71	382	999	
1139	0.6	1.83	408	964	
1222	0.5	1.92	430	940	
1299	0.4	2.01	448	906	
1361	0.3	2.09	464	881	
1422	0.2	2.16	477	846	
1486	0.1	2.24	496	804	HIGH
918	0.8	1.98	427	1064	
1151	0.7	2.15	472	1029	
1265	0.6	2.25	495	1009	
1373	0.5	2.35	517	981	
1451	0.4	2.43	538	964	
1525	0.3	2.50	554	940	
1615	0.2	2.61	582	922	
1660	0.1	2.68	587	882	

Standard motor Horizontal Blower Performance CPG036

Standard Cfm	Static	Amps	Watts	Rpm	Speed
790	0.6	1.27	285	934	LOW
900	0.5	1.39	306	869	
997	0.4	1.47	326	824	
1039	0.3	1.54	334	780	
1092	0.2	1.59	343	728	
1151	0.1	1.64	353	674	
728	0.8	1.48	328	1046	MED
893	0.7	1.60	355	1022	
1094	0.6	1.79	399	969	
1191	0.5	1.89	424	945	
1268	0.4	1.98	439	916	
1314	0.3	2.06	456	881	
1388	0.2	2.15	476	845	
1441	0.1	2.22	488	808	HIGH
798	0.8	1.89	402	1075	
1115	0.7	2.11	461	1034	
1227	0.6	2.22	485	1010	
1329	0.5	2.32	514	993	
1427	0.4	2.41	534	969	
1512	0.3	2.53	563	945	
1569	0.2	2.58	576	922	
1638	0.1	2.68	590	892	

Notes

Table represents dry coil without filter. To account for filter 0.08" should be added to measured ESP.

SCFM correction for wet coil = 4%.

Three ton models are shipped from the factory with speed tap set on low speed.

BLOWER PERFORMANCE DATA

CPG060XXX1DXXX

DIRECT DRIVE - 4 TON

Direct Drive Down Shot Blower Performance

CPG048

Standard Cfm	Static	Watts	RPM	Speed
1328	0.7	486	967	MED
1451	0.6	512	939	
1554	0.5	534	911	
1630	0.4	552	882	
1709	0.3	570	849	
1751	0.2	586	826	
1809	0.1	604	798	
1247	0.8	590	1026	HIGH
1399	0.7	616	999	
1516	0.6	644	978	
1620	0.5	662	961	
1713	0.4	684	939	
1798	0.3	706	918	

Direct Drive Horizontal Blower Performance

CPG048

Standard Cfm	Static	Watts	RPM	Speed
1365	0.6	512	953	MED
1468	0.5	534	925	
1544	0.4	552	896	
1623	0.3	570	863	
1665	0.2	586	840	
1723	0.1	604	812	
1361	0.7	606	1012	HIGH
1478	0.6	634	991	
1582	0.5	652	974	
1675	0.4	674	952	
1760	0.3	696	931	
1822	0.2	714	909	
1864	0.1	728	887	

Notes

Table represents dry coil without filter. To compensate for filter, add 0.08" to measured ESP.

SCFM correction for wet coil = 4%.

4 ton models are shipped from the factory with speed tap set on MED.

BLOWER PERFORMANCE DATA

CPG060XXX1DXXX

DIRECT DRIVE - 5 TON

STANDARD MOTOR DOWN SHOT BLOWER PERFORMANCE

	Standard CFM	Static	Amps	Watts	RPM	Speed Tap
CPG060XXX**XXX	710	0.9	2.20	240	910	T1
	770	0.8	2.10	230	875	
	835	0.7	2.05	230	845	
	900	0.6	1.95	210	805	
	995	0.5	1.90	205	760	
	1060	0.4	1.75	190	715	
	1130	0.3	1.65	175	665	
	1215	0.2	1.60	175	615	
	1340	0.1	1.60	175	590	
	925	0.9	2.70	310	940	T2
	985	0.8	2.60	310	910	
	1055	0.7	2.50	285	875	
	1129	0.6	2.45	280	845	
	1200	0.5	2.40	255	795	
	1255	0.4	2.20	250	750	
	1325	0.3	2.15	240	710	
	1395	0.2	2.00	220	665	
	1465	0.1	1.90	200	620	
	1570	0.9	4.90	620	1045	T3
	1620	0.8	4.75	605	1010	
	1670	0.7	4.65	590	980	
	1720	0.6	4.55	570	955	
	1820	0.5	4.45	560	915	
	1890	0.4	4.30	538	885	
	1920	0.3	4.20	515	855	
	1960	0.2	4.05	500	825	
	1995	0.1	3.95	480	785	
	1690	0.9	5.60	720	1070	T4
	1735	0.8	5.50	710	1040	
	1775	0.7	5.45	695	1015	
	1835	0.6	5.30	675	980	
	1875	0.5	5.15	655	955	
	1940	0.4	5.05	640	925	
	1990	0.3	4.90	610	895	
	2035	0.2	4.75	600	865	
	2105	0.1	4.60	585	835	
	1785	0.9	6.20	815	1090	T5
	1855	0.8	6.15	810	1070	
	1895	0.7	6.05	780	1040	
	1950	0.6	5.90	765	1015	
	1985	0.5	5.75	750	985	
	2040	0.4	5.65	740	945	
	2095	0.3	5.55	715	930	
	2165	0.2	5.45	690	905	
	2205	0.1	5.30	675	870	

STANDARD MOTOR HORIZONTAL BLOWER PERFORMANCE

	Standard CFM	Static	Amps	Watts	RPM	Speed Tap
CPG060XXX**XXX	730	0.9	2.25	255	920	T1
	775	0.8	2.10	240	880	
	830	0.7	2.10	220	830	
	890	0.6	2.00	220	815	
	950	0.5	1.90	205	785	
	1030	0.4	1.80	190	735	
	1125	0.3	1.70	180	670	
	1190	0.2	1.60	170	630	
	1280	0.1	1.60	160	590	
	955	0.9	2.80	320	960	T2
	975	0.8	2.70	310	930	
	1030	0.7	2.65	300	900	
	1080	0.6	2.50	285	865	
	1180	0.5	2.40	270	810	
	1255	0.4	2.30	250	760	
	1315	0.3	2.20	240	720	
	1365	0.2	2.10	230	680	
	1425	0.1	2.00	225	645	
	1585	0.9	5.00	640	1070	T3
	1660	0.8	4.88	620	1030	
	1700	0.7	4.79	605	1000	
	1750	0.6	4.67	585	965	
	1805	0.5	4.55	570	936	
	1835	0.4	4.40	555	910	
	1870	0.3	4.35	530	880	
	1925	0.2	4.20	520	850	
	1970	0.1	4.05	500	815	
	1635	0.9	5.25	675	1075	T4
	1690	0.8	5.10	655	1035	
	1750	0.7	5.00	635	1000	
	1798	0.6	4.90	625	975	
	1835	0.5	4.75	605	950	
	1890	0.4	4.70	590	920	
	1920	0.3	4.60	580	890	
	1970	0.2	4.45	555	865	
	2000	0.1	4.30	540	840	
	1770	0.9	6.20	810	1110	T5
	1840	0.8	6.20	810	1080	
	1880	0.7	6.10	785	1050	
	1925	0.6	5.95	790	1025	
	1965	0.5	5.90	770	1000	
	2000	0.4	5.75	745	975	
	2045	0.3	5.60	730	950	
	2105	0.2	5.50	710	920	
	2125	0.1	5.40	700	890	

Notes

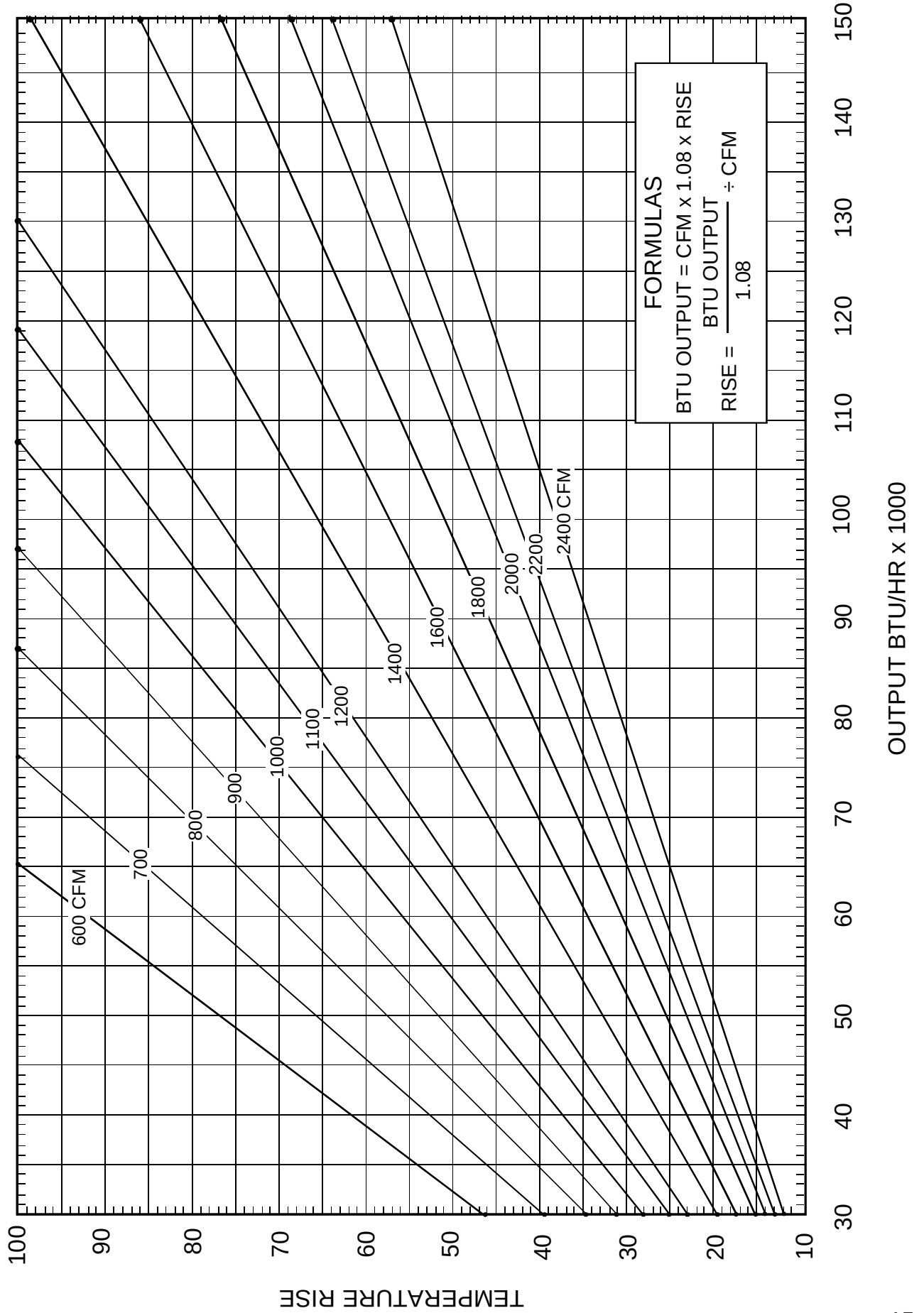
Tables represent dry coil without filter. To compensate for filter, add 0.08" to measured E.S.P.

SCFM correction for wet coil = 4%.

5 ton models are shipped from the factory with speed tap set on T4.

BLOWER PERFORMANCE DATA

BTU OUTPUT vs TEMPERATURE RISE CHART



MODEL: CPG036XXX**XXX

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F pressures measured @ the suction and liquid service access fittings, ARI 95 test conditions																													
Outdoor Ambient Temperature																													
65					75					85					95					105					115				
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																											
70	1350	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	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-			
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-			
		HI PR	228	245	259	-	256	275	290	-	291	313	330	-	331	356	376	-	372	401	423	-	411	443	468	-			
		LO PR	104	110	120	-	110	117	127	-	114	121	132	-	120	127	139	-	125	133	146	-	130	138	151	-			
	1200	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	0.71	0.59	0.41	-	0.73	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-			
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-			
		HI PR	225	243	256	-	253	272	287	-	288	310	327	-	328	353	372	-	369	397	419	-	407	438	463	-			
		LO PR	103	109	119	-	108	115	126	-	113	120	131	-	118	126	137	-	124	132	144	-	128	137	149	-			
	1050	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	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.66	0.45	-			
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-			
		HI PR	219	235	249	-	245	264	279	-	279	300	317	-	318	342	361	-	358	385	406	-	395	425	449	-			
		LO PR	100	106	116	-	105	112	122	-	109	116	127	-	115	122	133	-	120	128	140	-	124	132	145	-			
75	1350	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	0.84	0.76	0.57	0.37	0.88	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	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10			
		HI PR	230	248	261	273	258	278	293	306	294	316	334	348	334	360	380	396	376	405	427	446	416	447	472	493			
		LO PR	105	111	122	130	111	118	129	137	115	122	134	142	121	129	140	149	127	135	147	157	131	139	152	162			
	1200	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	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40			
		DELTA T	21	19	16	11	21	19	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10			
		HI PR	228	245	259	270	256	275	290	303	291	313	330	345	331	356	376	392	372	401	423	441	412	443	468	488			
		LO PR	104	110	120	128	110	117	127	135	114	121	132	141	120	127	139	148	125	133	146	155	130	138	151	160			
	1050	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	0.78	0.69	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.39	0.89	0.80	0.60	0.39			
		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			
		HI PR	221	238	251	262	248	267	282	294	282	303	320	334	321	346	365	381	361	389	411	428	399	430	454	473			
		LO PR	101	107	117	124	106	113	123	131	110	117	128	137	116	123	135	143	122	129	141	150	126	134	146	156			

Shaded area is ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature KW=Total system power

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

AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

CPG036XXX1DXXX

MODEL: CPG036XXX**XXX EXPANDED PERFORMANCE DATA COOLING OPERATION

Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F pressures measured @ the suction and liquid service access fittings, ARI 95 test conditions		Outdoor Ambient Temperature										105										115									
		65										75										85									
IDB*	Airflow	Entering Indoor Wet Bulb Temperature										95																			
80	1350	MBh	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171
		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	36.1	38.3	40.5	42.7	44.9
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.81	0.61	1.00	1.00	0.81	0.61	0.41
		Delta T	22	21	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	18	14	20	18	14	10	6
		HI PR	232	250	264	275	261	281	296	309	297	319	337	351	338	363	384	400	380	409	432	450	420	452	477	498	468	496	521	546	571
		LO PR	106	113	123	131	112	119	130	138	116	124	135	144	122	130	142	151	128	136	149	158	132	141	154	164	132	141	154	164	174
1200		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	30.0	30.6	32.6	34.6	36.6
		S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58	1.00	0.95	0.77	0.58	0.38
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	22	22	20	16	22	21	18	15	22	21	18	15	11
		HI PR	230	248	261	273	258	278	293	306	294	316	334	348	334	360	380	396	376	405	428	446	416	447	472	493	463	491	516	541	566
		LO PR	105	111	122	130	111	118	129	137	115	122	134	142	121	129	140	149	127	135	147	157	131	139	152	162	129	137	150	160	170
		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	27.1	27.7	29.5	31.5	33.5
1050		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56	0.95	0.89	0.72	0.55	0.35
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15	22	21	19	15	11
		HI PR	223	240	254	265	250	269	285	297	285	306	324	338	324	349	369	384	365	393	415	433	403	434	458	478	444	472	496	520	544
		LO PR	102	108	118	126	107	114	125	133	112	119	130	138	117	125	136	145	123	131	143	152	127	135	148	157	124	132	145	153	162
		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	30.3	30.9	32.5	34.1	35.7
		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	1.00	1.00	0.97	0.79	0.69
85	1350	Delta T	24	24	22	19	24	24	22	19	23	24	23	19	23	23	23	20	22	22	22	19	20	21	21	18	22	21	18	14	10
		HI PR	235	253	267	278	263	283	299	312	300	322	340	355	341	367	388	404	384	413	436	455	424	456	482	503	472	500	524	548	572
		LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165	131	139	152	162	172
		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	29.3	29.9	31.5	33.1	34.7
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75	1.00	1.00	0.93	0.75	0.65
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	24	23	20	22	22	22	19	22	22	19	15	11
1200		HI PR	232	250	264	275	261	281	296	309	297	319	337	351	328	363	384	400	380	409	432	450	420	452	477	498	468	496	521	546	571
		LO PR	106	113	123	131	112	119	130	138	116	124	135	144	122	130	142	151	128	136	149	158	132	141	154	164	132	141	154	164	174
		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	27.1	27.7	29.5	31.5	33.5
		S/T	0.89	0.86	0.78	0.63	0.93	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	0.99	0.89	0.72	1.00	0.99	0.89	0.72	0.62
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	23	23	22	19	22	22	19	15	11
		HI PR	225	243	256	267	253	272	287	300	288	310	327	341	328	353	372	388	369	397	419	437	407	438	463	483	453	481	505	529	553
1050		LO PR	103	109	119	127	108	115	126	134	113	120	131	139	118	126	137	146	124	132	144	153	128	136	149	159	124	132	145	153	162
		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	30.3	30.9	32.5	34.1	35.7
		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	1.00	1.00	0.97	0.79	0.69
		Delta T	24	24	22	19	24	24	22	19	23	24	23	19	23	23	23	20	22	22	22	19	20	21	21	18	22	21	18	14	10
		HI PR	235	253	267	278	263	283	299	312	300	322	340	355	341	367	388	404	384	413	436	455	424	456	482	503	472	500	524	548	572
		LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165	131	139	152	162	172

* Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ARI Rating Conditions High and low pressures are measured at the liquid and suction service access fittings.

MODEL : CPG048XXX**XXX

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F pressures measured @ the suction and liquid service access fittings, ARI 95 test conditions

		Outdoor Ambient Temperature																															
		65				75				85				95				105				115											
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								
	1800	MBh	45.1	46.7	51.2	-	44.0	45.6	50.0	-	43.0	44.5	48.8	-	41.9	43.5	47.6	-	39.8	41.3	45.2	-	36.9	38.2	41.9	-							
		S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-							
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-							
		HI PR	234	252	266	-	263	283	299	-	299	322	340	-	341	367	387	-	383	412	435	-	423	456	481	-							
		LOPR	105	112	122	-	111	119	129	-	116	123	134	-	122	129	141	-	127	136	148	-	132	140	153	-							
70	1600	MBh	43.8	45.4	49.7	-	42.7	44.3	48.5	-	41.7	43.2	47.4	-	40.7	42.2	46.2	-	38.7	40.1	43.9	-	35.8	37.1	40.7	-							
		S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-							
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-							
		HI PR	232	250	264	-	260	280	296	-	296	319	336	-	337	363	383	-	379	408	431	-	419	451	476	-							
		LOPR	104	111	121	-	110	117	128	-	115	122	133	-	120	128	140	-	126	134	147	-	131	139	152	-							
	1400	MBh	40.4	41.9	45.9	-	39.5	40.9	44.8	-	38.5	39.9	43.7	-	37.6	38.9	42.7	-	35.7	37.0	40.5	-	33.1	34.3	37.5	-							
		S/T	0.71	0.59	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-							
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-							
		HI PR	225	242	256	-	253	272	287	-	287	309	326	-	327	352	372	-	368	396	418	-	407	438	462	-							
		LOPR	101	108	118	-	107	114	124	-	111	118	129	-	117	124	136	-	122	130	142	-	127	135	147	-							
	1800	MBh	45.8	47.2	51.1	54.8	44.8	46.1	49.9	53.6	43.7	45.0	48.7	52.3	42.6	43.9	47.5	51.0	40.5	41.7	45.1	48.5	37.5	38.6	41.8	44.9							
		S/T	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44							
		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							
		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							
		LOPR	107	113	124	132	113	120	131	139	117	124	136	145	123	131	143	152	129	137	150	159	133	142	155	165							
75	1600	MBh	44.5	45.8	49.6	53.2	43.5	44.8	48.4	52.0	42.4	43.7	47.3	50.8	41.4	42.6	46.1	49.5	39.3	40.5	43.8	47.0	36.4	37.5	40.6	43.6							
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42							
		1600	21	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	10							
		HI PR	234	252	266	278	263	283	299	312	299	322	340	354	341	367	387	404	383	412	435	454	423	456	481	502							
		LOPR	105	112	122	130	111	119	129	138	116	123	134	143	122	129	141	150	127	136	148	158	132	140	153	163							
	1400	MBh	41.1	42.3	45.8	49.1	40.1	41.3	44.7	48.0	39.2	40.3	43.7	46.8	38.2	39.3	42.6	45.7	36.3	37.4	40.5	43.4	33.6	34.6	37.5	40.2							
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40							
		Delta T	22	20	16	11	22	20	17	11	22	20	17	12	22	20	17	12	22	20	17	11	20	19	15	11							
		HI PR	227	245	258	269	255	275	290	302	290	312	330	344	330	356	375	392	372	400	422	441	411	442	467	487							
		LOPR	102	109	119	127	108	115	126	134	112	119	130	139	118	126	137	146	124	132	144	153	128	136	149	158							

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction service access fittings.
IDB: Entering Indoor Dry Bulb Temperature

COOLING PERFORMANCE DATA

CPG048XXX1DXXX

MODEL: CPG048XXX**XXX

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F pressures measured @ the suction and liquid service access fittings, ARI 95 test conditions

		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	59	63	67	71														
80	1800	MBh	46.7	47.7	50.9	54.4	45.6	46.6	49.7	53.2	44.5	45.5	48.6	51.9	43.4	44.3	47.4	50.6	41.2	42.1	45.0	48.1	38.2	39.0	41.7	44.6	1.00	1.00	0.84	0.63													
		S/T	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63													
		Delta T	23	22	19	15	23	22	19	15	23	22	19	16	22	23	20	16	21	22	19	15	20	20	18	14	20	20	18	14													
		HI PR	239	257	272	283	268	289	305	318	305	328	347	362	348	374	395	412	391	421	444	463	432	465	491	512	432	465	491	512													
		LOPR	108	114	125	133	114	121	132	141	118	126	137	146	124	132	144	153	130	138	151	161	135	143	156	166	135	143	156	166													
1600	MBh	45.3	46.3	49.5	52.9	44.2	45.2	48.3	51.6	43.2	44.1	47.2	50.4	42.1	43.1	46.0	49.2	40.0	40.9	43.7	46.7	37.1	37.9	40.5	43.3	1.00	1.00	0.99	0.81	0.60													
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60	1.00	1.00	0.99	0.81	0.60													
	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	22	19	15	21	22	19	15														
	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	428	460	486	507														
	LOPR	107	113	124	132	113	120	131	139	117	124	136	145	123	131	143	152	129	137	150	159	133	142	155	165	133	142	155	165														
1400	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9	34.2	35.0	37.4	39.9														
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.95	0.77	0.58	1.02	0.95	0.78	0.58	1.02	0.95	0.78	0.58														
	Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	24	23	20	16	23	22	19	15	23	22	19	15														
	HI PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	396	375	404	427	445	415	446	471	492	415	446	471	492														
	LOPR	103	110	120	128	109	116	127	135	113	121	132	140	119	127	138	147	125	133	145	154	129	137	150	160	129	137	150	160														

	1800	MBh	47.5	48.4	50.7	54.1	46.4	47.3	49.5	52.8	45.3	46.1	48.3	51.6	44.2	45.0	47.1	50.3	42.0	42.8	44.8	47.8	38.9	39.6	41.5	44.3	
		S/T	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82	
		Delta T	24	24	23	20	24	24	23	20	23	24	23	20	23	23	23	23	20	21	22	23	20	20	20	21	19
		HI PR	241	260	274	286	271	292	308	321	308	332	350	365	351	378	399	416	395	425	449	468	436	470	496	517	436
		LOPR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	153	162	136	145	158	168	136
1600	MBh	46.1	47.0	49.2	52.5	45.0	45.9	48.1	51.3	43.9	44.8	46.9	50.1	42.9	43.7	45.8	48.8	40.7	41.5	43.5	46.4	37.7	38.5	40.3	43.0		
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.78		
	Delta T	26	25	24	21	26	25	24	21	25	25	24	21	25	25	24	21	23	24	24	21	22	22	22	19		
	HI PR	239	257	272	283	268	289	305	318	305	328	347	362	348	374	395	412	391	421	444	463	432	465	491	512		
	LOPR	108	114	125	133	114	121	132	141	118	126	137	146	124	132	144	153	130	138	151	161	135	143	156	166		
1400	MBh	42.5	43.4	45.4	48.5	41.5	42.4	44.4	47.3	40.6	41.3	43.3	46.2	39.6	40.3	42.2	45.1	37.6	38.3	40.1	42.8	34.8	35.5	37.2	39.7		
	S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75		
	Delta T	26	26	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	25	24	21	23	23	23	20		
	HI PR	232	250	264	275	260	280	296	308	296	319	336	351	337	363	383	396	379	408	431	449	419	451	476	497		
	LOPR	104	111	121	129	110	117	128	136	115	122	133	142	120	128	140	149	126	134	147	156	130	139	152	161		

* Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction service access fittings.
NOTE: Shaded area is ARI Rating Conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: CPG060XXX**XXX

Design Subcooling 9 ±3 °F @ the liquid and suction service access fittings, ARI 95 test conditions

IDB*		Airflow	Outdoor Ambient Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			65								75								85								95								105								115																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			65				71				75				81				85				91				95				101				105				111				115																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
59		63		67		71		75		79		83		87		91		95		99		103		107		111		115		119		123		127		131		135		139		143		147		151		155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2190	MBh	58.6	60.7	66.5	-	57.2	59.3	65.0	-	55.9	57.9	63.5	-	54.5	56.5	61.9	-	51.8	53.7	58.8	-	48.0	49.7	54.5	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

	2190	MBh	59.6	61.4	66.4	71.3	58.2	59.9	64.9	69.6	56.8	58.5	63.3	68.0	55.4	57.1	61.8	66.3	52.7	54.2	58.7	63.0	48.8	50.2	54.4	58.4	
		S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41	
		DELTA T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	15	11	19	18	14	10	
		HI PR	250	269	284	296	280	302	318	332	319	343	362	378	363	393	391	413	430	408	440	464	484	451	486	513	535
		LO PR	106	113	123	131	112	119	130	139	117	124	136	144	123	130	130	142	152	128	137	149	159	133	141	154	164
75	1947	MBh	57.9	59.6	64.5	69.2	56.5	58.2	63.0	67.6	55.2	56.8	61.5	66.0	53.8	55.4	60.0	64.4	51.1	52.6	57.0	61.2	47.4	48.8	52.8	56.7	
		S/T	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.89	0.79	0.60	0.39	0.89	0.80	0.60	0.39	
		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	
		HI PR	247	266	281	293	278	299	315	329	316	340	359	374	359	387	387	408	426	404	435	460	479	447	481	508	530
		LO PR	105	112	122	130	111	118	129	137	116	123	134	143	121	129	129	141	150	127	135	148	157	132	140	153	163
	1703	MBh	53.4	55.0	59.5	63.9	52.2	53.7	58.1	62.4	50.9	52.4	56.7	60.9	49.7	51.1	55.4	59.4	47.2	48.6	52.6	56.4	43.7	45.0	48.7	52.3	
		S/T	0.75	0.67	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.86	0.77	0.58	0.38	
		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	
		HI PR	240	258	273	284	269	290	306	319	306	329	348	363	349	375	375	396	413	392	422	446	465	433	466	493	514
		LO PR	102	109	119	126	108	115	125	133	112	119	130	139	118	125	125	137	146	123	131	143	153	128	136	148	158

Shaded area is ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature

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

COOLING PERFORMANCE DATA

CPG060XXX1DXXX

EXPANDED PERFORMANCE DATA
Design Subcooling 9 ±3 °F @ the liquid and suction service access fittings, ARI 95 test conditions

MODEL: CPG060XXX**XXX

Outdoor Ambient Temperature										Cooling Operation									
85										105									
65										115									
IDB*	Airflow									Entering Indoor Wet Bulb Temperature									
80	2190	MBh	60.7	62.0	66.2	70.8	71	59	63	67	71	59	63	67	71	59	63	67	71
		S/T	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	1.00	0.92	0.75	0.56	1.00
		DELTA T	23	22	19	15	23	22	19	15	24	22	19	15	24	22	19	15	21
		HI PR	252	272	287	299	283	305	322	336	322	346	366	382	367	395	417	435	413
		LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130
		MBh	58.9	60.2	64.3	68.7	57.5	58.8	62.8	67.1	56.1	57.4	61.3	65.5	54.8	56.0	59.8	63.9	52.0
80	1947	S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.88	0.71	0.53	0.97
		DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24
		HI PR	250	269	284	296	280	302	319	332	319	343	362	378	363	391	413	430	408
		LO PR	106	113	123	131	112	119	130	139	117	124	136	144	123	130	142	152	128
		MBh	54.4	55.5	59.3	63.4	53.1	54.2	58.0	62.0	51.8	53.0	56.6	60.5	50.6	51.7	55.2	59.0	48.0
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.94
1703	1703	DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24
		HI PR	242	261	275	287	272	293	309	322	309	333	351	367	352	379	400	417	396
		LO PR	103	110	120	128	109	116	126	135	113	120	131	140	119	126	138	147	125
		MBh	54.4	55.5	59.3	63.4	53.1	54.2	58.0	62.0	51.8	53.0	56.6	60.5	50.6	51.7	55.2	59.0	48.0
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.94
		DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24

Outdoor Ambient Temperature										Cooling Operation									
85										105									
65										115									
IDB*	Airflow									Entering Indoor Wet Bulb Temperature									
85	2190	MBh	61.7	62.9	65.9	70.3	60.3	61.4	64.4	68.7	58.8	60.0	62.8	67.0	57.4	58.5	61.3	65.4	54.5
		S/T	0.94	0.90	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00
		DELTA T	24	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	23
		HI PR	255	274	290	302	286	308	325	339	325	350	370	385	370	399	421	439	417
		LO PR	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131
		MBh	59.9	61.1	64.0	68.2	58.5	59.7	62.5	66.7	57.1	58.2	61.0	65.1	55.7	56.8	59.5	63.5	52.9
85	1947	S/T	0.89	0.86	0.78	0.63	0.93	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00
		DELTA T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	25
		HI PR	252	272	287	299	283	305	322	336	322	346	366	382	367	395	417	435	413
		LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130
		MBh	55.3	56.4	59.0	63.0	54.0	55.1	57.7	61.5	52.7	53.8	56.3	60.1	51.4	52.4	54.9	58.6	48.9
		S/T	0.86	0.83	0.75	0.61	0.89	0.86	0.78	0.63	0.92	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.98
1703	1703	DELTA T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	26
		HI PR	245	263	278	290	275	296	312	325	312	336	355	370	356	383	404	422	400
		LO PR	104	111	121	129	110	117	128	136	114	122	133	141	120	128	139	149	126
		MBh	54.4	55.5	59.3	63.4	53.1	54.2	58.0	62.0	51.8	53.0	56.6	60.5	50.6	51.7	55.2	59.0	48.0
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.94
		DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24

Shaded area is ARI Rating Conditions
High and low pressures are measured at the liquid and suction service access fittings.

IDB: Entering Indoor Dry Bulb Temperature

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.

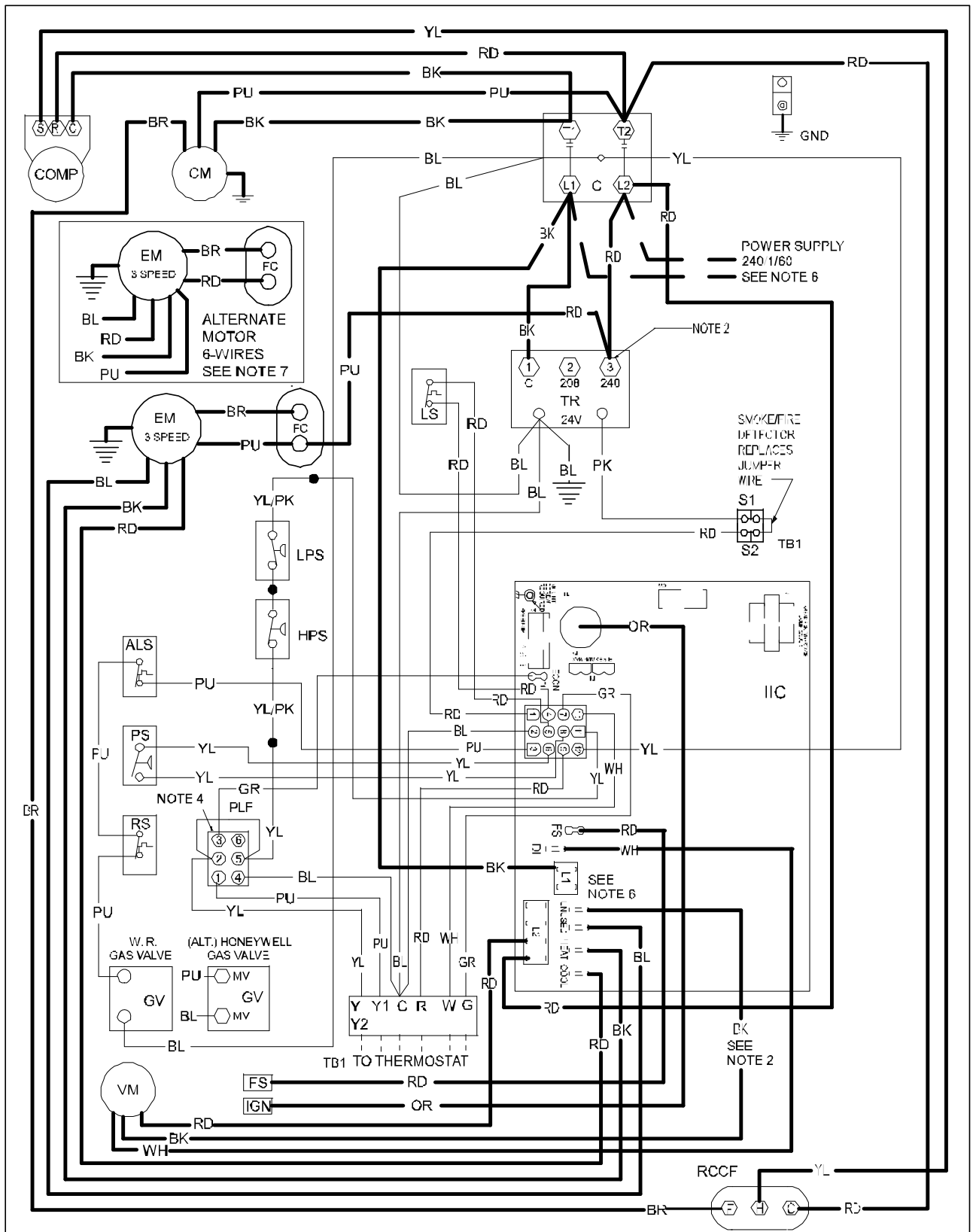
A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

WIRING DIAGRAMS

CPG[036-048]XXX1DXXX

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.



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

WIRING DIAGRAMS

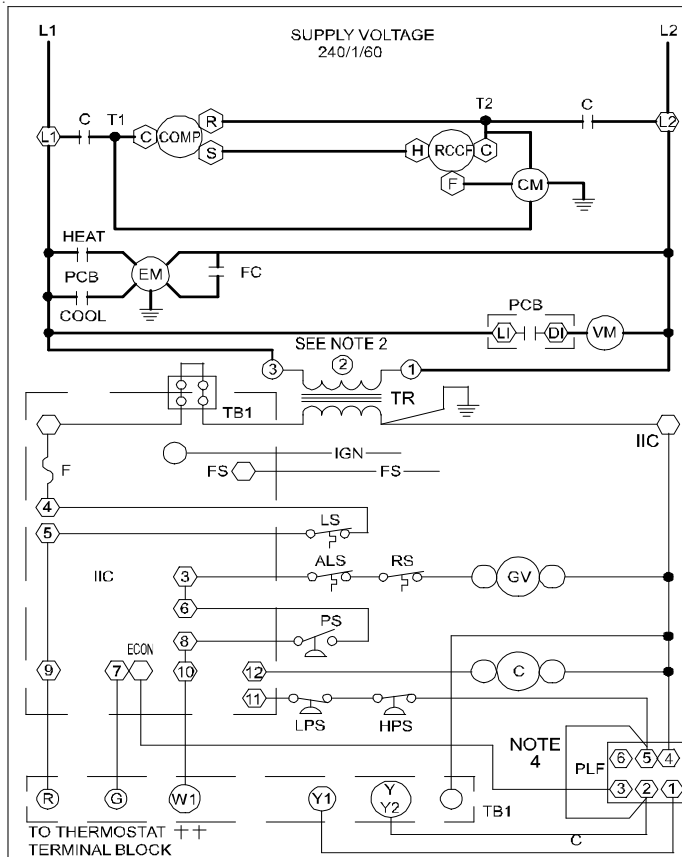
CPG[036-048]XXX1DXXX



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

ALS	AUXILIARY LIMIT SWITCH
COMP	COMPRESSOR
CM	CONDENSER MOTOR
C	CONTACTOR
EM	EVAPORATOR MOTOR
F	FUSE
FS	FLAME SENSOR
GND	EQUIPMENT GROUND
GV	GAS VALVE
HPS	HIGH PRESSURE SWITCH
IIC	INTEGRATED IGNITION CONTROL
IGN	IGNITOR
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
PLF	FEMALE PLUG/CONNECTOR
PS	PRESSURE SWITCH
RCCF	RUN CAPACITOR FOR COMPRESSOR/FAN
RS	ROLLOUT SWITCH
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER
VM	VENT MOTOR
VMR	VENT MOTOR RELAY

NOTES

- REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL. (USE COPPER CONDUCTOR ONLY).
- FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE AND RED WIRES FROM TERMINAL (3) TO TERMINAL (2) ON TRANSFORMER. ALSO CHANGE RED WIRE TO BLACK WIRE FROM VENT MOTOR.
- FOR DIFFERENT THAN FACTORY SPEED TAP. CHANGE COOLING SPEED AT COOL TERMINAL. CHANGE HEATING SPEED AT HEAT TERMINAL ON CONTROL BOARD.
3 SPEED MOTOR
RD - LOW SPEED
BL - MED. SPEED
BK - HIGH SPEED
- ACCESSORY ECONOMIZER PLUG ADJACENT TO BLOWER HOUSING IN RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO ECONOMIZER ACCESSORY.
- USE COPPER CONDUCTORS ONLY.
++ USE NEC CLASS 2 WIRE.
- LOW SPEED FOR VENT MOTOR.
- PURPLE WIRE CONNECTS TO TRANSFORMER (PIN 3)

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
PK	PINK
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW
BL/PK	BLUE WITH PINK STRIP
YL/PK	YELLOW WITH PINK STRIP

INSTALLER/SERVICEMAN

THE STATUS LIGHT ON THE FURNACE CONTROL MAY BE USED AS A GUIDE TO TROUBLESHOOTING THIS APPLIANCE. STATUS LIGHT CODES ARE AS FOLLOWS:

STATUS LIGHT	EQUIP. STATUS	CHECK
ON	NORMAL OPERATION	-
OFF	NO POWER OR INTERNAL CONTROL FAULT	CHECK INPUT POWER CHECK FUSE ON CONTROL REPLACE CONTROL
1 BLINK	IGNITION FAILURE OR OPEN ROLLOUT SWITCH OR OPEN AUX. LIMIT SWITCH	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR FLAME ROLLOUT BAD SWITCH AUX. LIMIT OPEN
2 BLINKS	PRESSURE SWITCH OPEN	CHECK PRESSURE SWITCH
3 BLINKS	PRESSURE SWITCH CLOSED WITHOUT INDUCER ON	CHECK PRESSURE SWITCH
4 BLINKS	OPEN LIMIT SWITCH	MAIN LIMIT OPEN BAD SWITCH
5 BLINKS	FALSE FLAME SENSED	STICKING GAS VALVE
6 BLINKS	COMPRESSOR OUTPUT DELAY	3 MIN. COMP. ANTI-CYCLE TIMER

THERMOSTAT FIELD WIRING ++

NO ECONOMIZER

(W)	—	WH	—	W
(G)	—	GR	—	G
(R)	—	RD	—	R
(Y1)	—	YL	—	Y
(Y1/Y2)	—	YL	—	Y
(C)	—	BL	—	C

TB1 STAT

WITH ECONOMIZER OPTION

(W)	—	WH	—	W
(G)	—	GR	—	G
(R)	—	RD	—	R
(Y1)	—	YL	—	Y
(Y1/Y2)	—	YL	—	Y
(C)	—	BL	—	C

TB1 STAT

2 STAGE COOLING

(W)	—	WH	—	W
(G)	—	GR	—	G
(R)	—	RD	—	R
(Y1)	—	YL	—	Y1
(Y1/Y2)	—	PK	—	Y2
(C)	—	BL	—	C

TB1 STAT

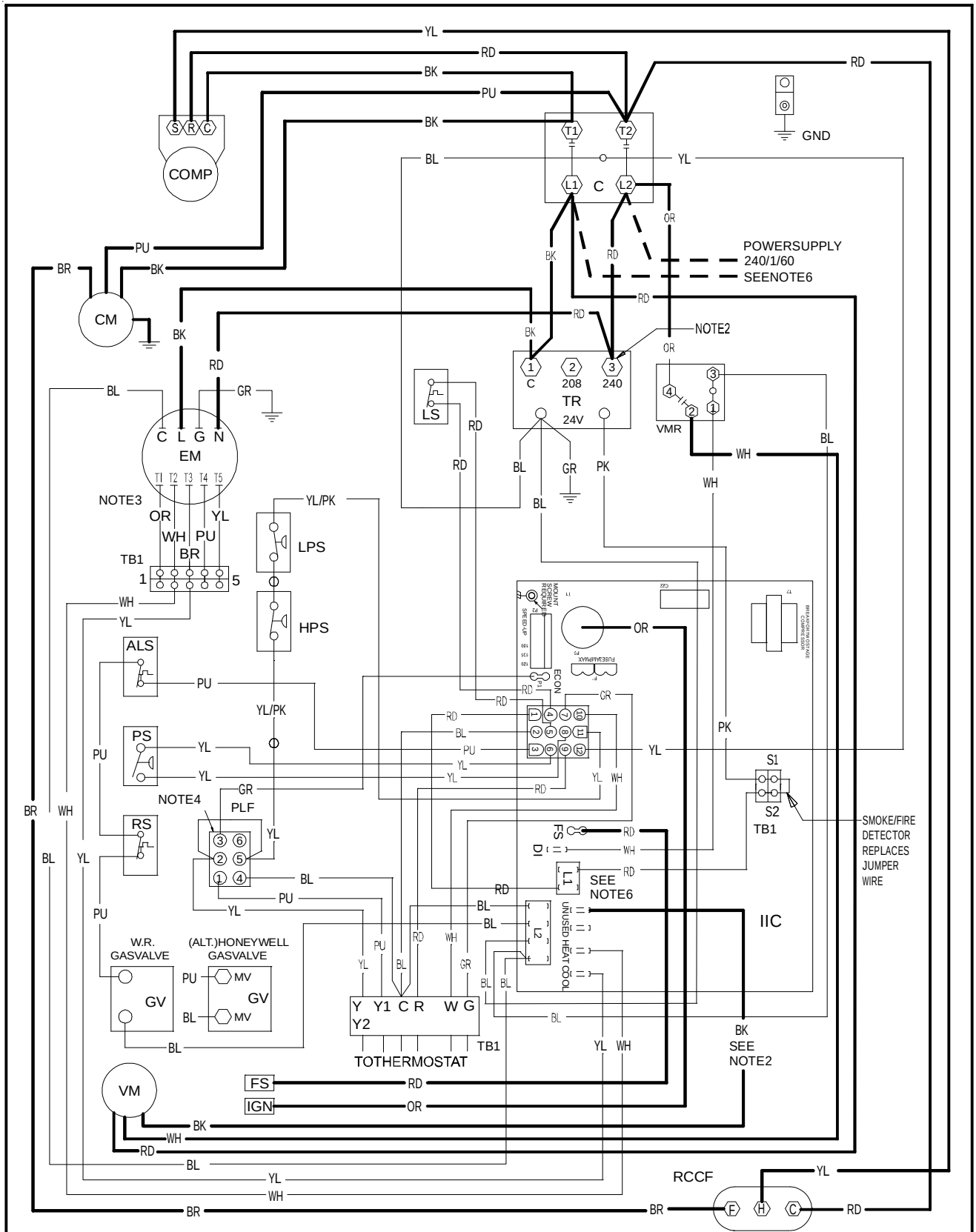
240/1/60 0140L00133 REV B

WIRING DIAGRAMS

CPG060XXX1DXXX

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.



240/3/60 0140L00018 REV D

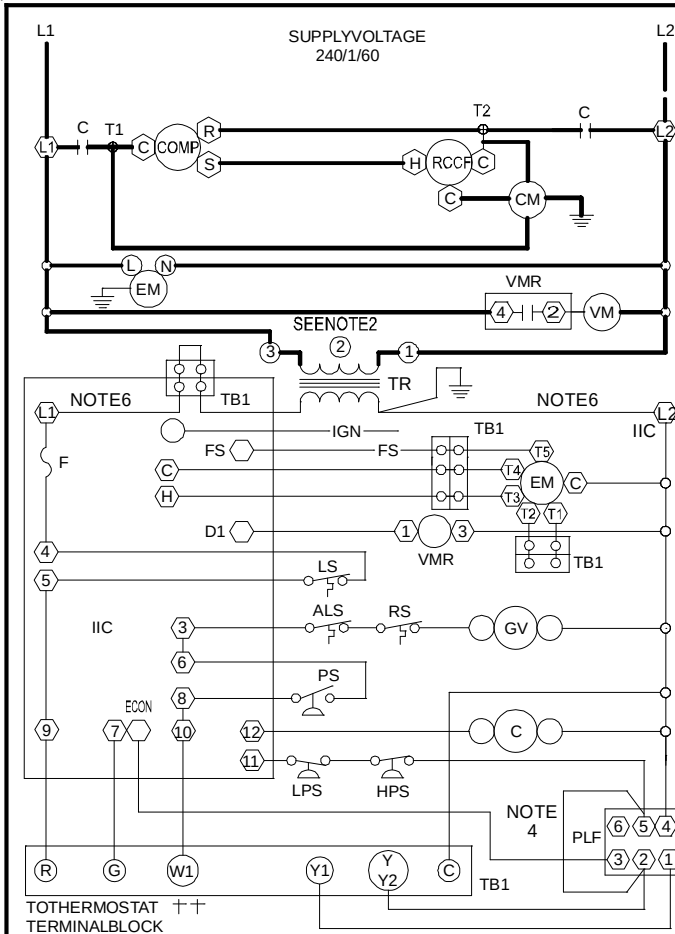
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

CPG060XXX1DXXX

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

ALS	AUXILIARY LIMIT SWITCH
COMP	COMPRESSOR
CM	CONDENSER MOTOR
C	CONTACTOR
EM	EVAPORATOR MOTOR
F	FUSE
FS	FLAME SENSOR
GND	EQUIPMENT GROUND
GV	GAS VALVE
HPS	HIGH PRESSURE SWITCH
IIC	INTEGRATED IGNITION CONTROL
IGN	IGNITOR
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
PLF	FEMALE PLUG/CONNECTOR
PS	PRESSURE SWITCH
RCCF	RUN CAPACITOR FOR COMPRESSOR/FAN
RS	ROLLOUT SWITCH
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER
VM	VENT MOTOR
VMR	VENT MOTOR RELAY

NOTES

1. REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL. (USE COPPER CONDUCTOR ONLY).
2. FOR 208VOLT TRANSFORMER OPERATION, MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER, ALSO CHANGE RED WIRE TO BLACK WIRE FROM VENT MOTOR.
3. FOR DIFFERENT THAN FACTORY SPEED TAP, CHANGE COOLING SPEED AT MOTOR T4 AND T5 TERMINALS. CHANGE HEATING SPEED AT MOTOR T1, T2, AND T3 TERMINALS.
 - COOLING SPEED (YELLOW WIRE)
 - T3 - LOW SPEED
 - T4 - HIGH SPEED
 - HEATING SPEED (WHITE WIRE)
 - T1 - LOW SPEED (070)
 - T2 - MED. SPEED
 - T5 - HIGH SPEED (140)

4. ACCESSORY ECONOMIZER PLUG ADJACENT TO BLOWER HOUSING IN RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO ECONOMIZER ACCESSORY.
5. USE COPPER CONDUCTOR ONLY. ++ USE NEC CLASS 2 WIRE.
6. L1 AND L2 ON ICC CONTROL IS 24V INPUT.

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
PK	PINK
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW
BL/PK	BLUE WITH PINK STRIP
YL/PK	YELLOW WITH PINK STRIP

THERMOSTAT

FIELD WIRING ++

NO ECONOMIZER

(W)	WH	W
(G)	GR	G
(R)	RD	R
(Y1)	YL	Y
(Y/Y2)	YL	Y
(C)	BL	C

TB1 STAT

WITH ECONOMIZER OPTION

(W)	WH	W
(G)	GR	G
(R)	RD	R
(Y1)	YL	Y
(Y/Y2)	YL	Y
(C)	BL	C

TB1 STAT

2 STAGE COOLING

(W)	WH	W
(G)	GR	G
(R)	RD	R
(Y1)	YL	Y1
(Y/Y2)	PK	Y2
(C)	BL	C

TB1 STAT

INSTALLER/SERVICEMAN

THE STATUS LIGHT ON THE FURNACE CONTROL MAY BE USED AS A GUIDE TO TROUBLESHOOTING THIS APPLIANCE. STATUS LIGHT CODES ARE AS FOLLOWS:

STATUS LIGHT	EQUIP. STATUS	CHECK
ON	NORMAL OPERATION	-
OFF	NO POWER OR INTERNAL CONTROL FAULT	CHECK INPUT POWER CHECK FUSE ON CONTROL REPLACE CONTROL
1 BLINK	IGNITION FAILURE OR OPEN ROLLOUT SWITCH OR OPEN AUX. LIMIT SWITCH	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR FLAME ROLLOUT BAD SWITCH AUX. LIMIT OPEN
2 BLINKS	PRESSURE SWITCH OPEN	CHECK PRESSURE SWITCH
3 BLINKS	PRESSURE SWITCH CLOSED WITHOUT INDUCER ON	CHECK PRESSURE SWITCH
4 BLINKS	OPEN LIMIT SWITCH	MAIN LIMIT OPEN BAD SWITCH
5 BLINKS	FALSE FLAME SENSED	STICKING GAS VALVE
6 BLINKS	COMPRESSOR OUTPUT DELAY	3 MIN. COMP. ANTI-CYCLETIMER

240/3/60 0140L00018 REV D