



Air Conditioning & Heating

COOLING CAPACITY: 90,000 — 140,000 BTU/H

HEATING CAPACITY: 90,000 — 142,000 BTU/H

CPH COMMERCIAL 7½- TO 12½-TON THREE-PHASE PACKAGED HEAT PUMP UP TO 11.5 EER / UP TO 3.4 COP



Standard Features

- R-410A chlorine-free refrigerant
- High-efficiency scroll compressors
- Two-stage cooling
- Copper tube / aluminum fin coils
- Contactor with lugs
- High-capacity, steel-cased filter drier
- Single-point entry
- 24-volt terminal strip
- Convertible
- Easy to service
- Built-in filter rack with standard 2" filters
- AHRI Certified; ETL Listed

Cabinet Features

- Heavy-gauge, galvanized-steel cabinet with UV-resistant powder-paint finish
- Full Perimeter Rail
- Curb Fit

Contents

Nomenclature	2
Product Specifications	3
Expanded Heating Data	7
Expanded Cooling Data	8
Airflow Data	16
Heat Kit Electrical Data	20
Dimensions	24
Wiring Diagrams	28
Accessories	34



* Complete warranty details available from your local dealer or at www.goodmanmfg.com.

NOMENCLATURE

	C	P	H	090	030	3	B	*	*	*	A	*
	1	2	3	4,5,6	7,8,9	10	11	12	13	14	15	16
Revision Levels												
Major & Minor												
Factory-Installed Options												
Brand	C Commercial											X No Options
Configuration	P Packaged Unit											A Non-powered convenience outlet
Application	C Cooling G Gas Heat H Heat Pump											B Powered convenience outlet
Nominal Gross Cooling Capacity	036 3 Tons 102 8½ Tons 048 4 Tons 120 10 Tons 060 5 Tons 150 12½ tons 072 6 Tons 180 & 181 15 Tons 090 7½ Tons 240 20 Tons											C Low-ambient kit
Nominal Heating Capacity	CPC/CPH (Factory-Installed Electric Heat)											D Return air smoke detector
CPG	045 45,000 BTU/h XXX No Heat 090 90,000 BTU/h 010 10 kW 030 30 kW 115 115,000 BTU/h 015 15 kW 031 30 kW 140 140,000 BTU/h 016 15 kW 045 45 kW 210 210,000 BTU/h 018 18 kW 046 45 kW 350 350,000 BTU/h 020 20 kW 060 60 kW 400 400,000 BTU/h 025 25 kW											E Supply air smoke detector
See product specifications for heat size(s) available for each capacity.												
Voltage	1 208-230/1/60 4 460/3/60 3 208-230/3/60 7 575/3/60											F Non-powered convenience outlet; Low-ambient kit
Supply Fan/Drive Type/Motor	B Belt Drive V 2-Speed Belt Drive D Direct Drive											G Non-powered convenience outlet; Return air smoke detector
Factory-Installed Options	X No Options A Downflow Economizer H Disconnect Switch (non-fused) J Downflow Economizer; Disconnect Switch (non-fused)											H Non-powered convenience outlet; Supply air smoke detector
Note: Not all options available for all products.												
Factory-Installed Options												
<ul style="list-style-type: none"> Stainless-Steel Heat Exchanger (CPG units only): A tubular heat exchanger made of 409-type stainless steel is installed in the unit. Low-Ambient Kit: Allows for cooling operation at lower outdoor temperatures. On the 3- to 6-ton units, cooling operation is extended from 60°F ambient temperature to 35°F outside air temperature. On 7½- to 20-ton units, cooling operation is extended from 35°F ambient temperature to 0°F outside air temperature. Economizers (Downflow): Based on air conditions, can provide outside air to cool the space. Electric Heat Kits (CPC and CPH units only): Available in all voltage options. Non-powered Convenience Outlet: A 120V, 15A, GFCI outlet makes it easier for technicians to service the unit once an electrician runs power to the outlet. Powered Convenience Outlet: A 120V, 15A, GFCI outlet powered with a transformer built into the unit; for use when unit is not running. When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.5A for 208/230V units, increase by 3.75A for 460V units, and increase by 3A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly. Disconnect Switch (non-fused): A disconnect switch is installed in the unit and factory wiring will be complete from the switch to the unit. Please note that for air conditioning (CPC units) and heat pump models (CPH units), the appropriate electric heat kit must be ordered to be factory-installed along with the disconnect switch (non-fused) when it is ordered. Please note that for models with a powered convenience outlet option and a disconnect switch (non-fused) option, the power to the powered convenience outlet will be shut off when the disconnect switch (non-fused) is in the off position. Return Air and/or Supply Air Smoke Detectors: Return air and/or supply air smoke detectors are installed in the unit. Two-speed Indoor Fan Blower Option: Available on 10-ton units. When the unit operates on the first stage of cooling, the fan operates at low speed to provide 2/3 CFM airflow. When both stages of cooling operate, the blower delivers the total CFM airflow. In heating operation, the fan delivers the total CFM. 												
Factory-Installed Options												
X Standard Aluminized Heat Exchanger												
S Stainless-Steel Heat Exchanger												

PRODUCT SPECIFICATIONS — 7½ TONS

	CPH090 ***3B***A*	CPH090 ***4B***A*	CPH090 ***7B***A*
COOLING CAPACITY			
Total BTU/h	90,000	90,000	90,000
Sensible BTU/h	65,700	65,700	65,700
EER / IEER	11.5 / 11.5	11.5 / 11.5	11.5 / 11.5
Decibels	83	83	83
AHRI Reference #s	5104781	5104781	5104781
HEATING CAPACITY			
BTU/h / COP (47° F)	90,000 / 3.4	90,000 / 3.4	90,000 / 3.4
BTU/h / COP (17° F)	55,000 / 2.4	55,000 / 2.4	55,000 / 2.4
EVAPORATOR MOTOR / COIL			
Motor Type	Belt Drive	Belt Drive	Belt Drive
Indoor Nominal CFM	3,000	3,000	3,000
Indoor Motor FLA (Cooling)	7.8	3.9	2.5
Horsepower - RPM	2.0 - 1725	2.0 - 1725	2.0 - 1725
Piston Size (Cooling)	0.076	0.076	0.076
Filter Size	16" x 24" x 2"	16" x 24" x 2"	16" x 24" x 2"
Drain Size (NPT)	¾"	¾"	¾"
R-410A Refrigerant Charge: Cir #1 / #2 (oz.)	215 / 215	215 / 215	200 / 200
Evaporator Coil Face Area (ft²)	10.2	10.2	10.2
Rows Deep / Fins per Inch	4 / 16	4 / 16	4 / 16
BELT DRIVE EVAP FAN DATA			
# of Wheels (D x W)	1 (15" x 12")	1 (15" x 12")	1 (15" x 12")
Motor Sheave / Blower Sheave	VL40 / AK74	VL40 / AK74	VL40 / AK74
Belt	AX51	AX51	AX51
CONDENSER FAN / COIL			
Quantity of Condenser Fan Motors	2	2	2
Horsepower - RPM	¼ - 1090	¼ - 890	¼ - 1075
Fan Diameter / # Fan Blades	22 / 4	22 / 4	22 / 4
Outdoor Expansion Device	0.052	0.052	0.055
Outdoor Nominal CFM	7,600	7,600	7,600
Face Area (ft²)	32.4	32.4	32.4
# Coils / Rows Deep - Fins per Inch	2 / 2 - 20	2 / 2 - 20	2 / 2 - 20
Piston Size (Heating)	0.052	0.052	0.055
COMPRESSOR			
Quantity / Type / Stage	2 / Scroll / 1	2 / Scroll / 1	2 / Scroll / 1
Compressor RLA / LRA	13.1 / 83.1	6.1 / 41.0	4.4 / 33.0
ELECTRICAL DATA			
Voltage / Phase / Frequency	208-230 / 3 / 60	460 / 3 / 60	575 / 3 / 60
Indoor Blower HP / FLA	1.5 / 5.0	1.5 / 2.5	2 / 2.5
Outdoor Fan HP / FLA	¼ / 1.4	¼ / 0.8	¼ / 0.6
Total Unit Amps	36.9	17.7	12.5
Min. Circuit Ampacity ¹	40	19	13.6
Max. Overcurrent Protection (amps) ²	50	25	15
Entrance Power Supply & Control Voltage	Locating Dimple	Locating Dimple	Locating Dimple
OPERATING WEIGHT (LBS)	1135	1135	1135
SHIP WEIGHT (LBS)	1175	1175	1175

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.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.5A for 208/230V units, increase by 3.75A for 460V units, and by 3A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly.

PRODUCT SPECIFICATIONS — 8½ TONS

	CPH102 ***3B***A*	CPH102 ***4B***A*	CPH102 ***7B***A*
COOLING CAPACITY			
Total, BTU/h	102,000	102,000	102,000
Sensible BTU/h	73,440	73,440	73,440
EER / IEER	11.1 / 11.2	11.1 / 11.2	11.1 / 11.2
Decibels	83	83	83
ARI Reference #s	5104782	5104782	5104782
HEATING CAPACITY			
BTU/h (47°F)	102,000	102,000	102,000
COP (47°F)	3.4	3.4	3.4
BTU/h (17°F)	55,500	55,500	55,500
COP (17°F)	2.25	2.25	2.25
EVAPORATOR MOTOR / COIL			
Motor Type	Belt Drive	Belt Drive	Belt Drive
Indoor Nominal CFM	3,400	3,400	3,400
Indoor Motor FLA (Cooling)	7.8	3.9	2.3
Horsepower - RPM	1725	1725	1725
Piston Size (Cooling)	0.08	0.08	0.08
Filter Size (Qty)	(4) 16" x 24" x 2"	(4) 16" x 24" x 2"	(4) 16" x 24" x 2"
Drain Size (NPT)	3/4"	3/4"	3/4"
R-410A Refrigerant Charge Cir #1 & #2 (oz.)	205 / 205	205 / 205	205 / 205
Evaporator Coil Face Area (ft²)	10.2	10.2	10.2
Rows Deep / Fins per Inch	4 / 14	4 / 14	4 / 14
BELT DRIVE EVAP FAN DATA			
# of Wheels (D x W)	1 (15" x 12")	1 (15" x 12")	1 (15" x 12")
Motor Sheave / Blower Sheave	VL40 / AK74	VL40 / AK74	VL40 / AK74
Belt	AX51	AX51	AX51
CONDENSER FAN / COIL			
Quantity of Condenser Fan Motors	2	2	2
Horsepower - RPM	1/4" - 1,090	1/4" - 890	1/4" - 1,075
Fan Diameter / # Fan Blades	22 / 4	22 / 4	22 / 4
Outdoor Nominal CFM	7,600	7,600	7,600
Face Area (ft²)	16.19	16.19	16.19
Rows Deep / Fins per Inch	2 / 22	2 / 22	2 / 22
Piston Size (Heating)	0.059	0.059	0.059
COMPRESSOR			
Quantity / Stage/ Type	2 / Single/ Scroll	2 / Single/ Scroll	2 / Single/ Scroll
Compressor RLA / LRA ea.	14.5 / 98	6.3 / 55	6.0 / 41
ELECTRICAL DATA / STATIC			
Voltage / Phase / Frequency	230 / 3 / 60	460 / 3 / 60	575 / 3 / 60
Standard Max Static	1"	1	1
Outdoor Fan FLA ea.	1.4	0.8	0.6
Total Unit Amps	39.6	18.1	15.5
Min. Circuit Ampacity ¹	43.2	19.7	17
Max. Overcurrent Protection (amps) ²	50	25	20
Entrance Power Supply & Control Voltage	Locating Dimple	Locating Dimple	Locating Dimple
OPERATING WEIGHT (LBS)	1285	1285	1285
SHIP WEIGHT (LBS)	1310	1310	1310

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.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.5A for 208/230V units, increase by 3.75A for 460V units, and by 3A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly.

PRODUCT SPECIFICATIONS — 10 TONS

	CPH120 ***3B***A*	CPH120 ***3V***A*	CPH120 ***4B***A*	CPH120 ***4V***A*	CPH120 ***7B***A*	CPH120 ***7V***A*
COOLING CAPACITY						
Total BTU/h	118,000	116,000	118,000	116,000	118,000	116,000
Sensible BTU/h	87,300	84,700	87,300	84,700	87,300	84,700
EER / IEER	11.5 / 11.5	11.3 / 12.6	11.5 / 11.5	11.3 / 12.6	11.5 / 11.5	11.3 / 12.6
Decibels	83	83	83	83	83	83
ARI Reference #s	5104783	5696560	5104783	5696560	5104783	5696560
HEATING CAPACITY						
BTU/h (47° F)	120,000	120,000	120,000	120,000	120,000	120,000
COP (47°F)	3.4	3.4	3.4	3.4	3.4	3.4
BTU/h (17° F)	56,000	56,000	56,000	56,000	56,000	56,000
COP (17°F)	2.4	2.4	2.4	2.4	2.4	2.4
EVAPORATOR MOTOR / COIL						
Motor Type	Belt Drive	2-Speed Belt	Belt Drive	2-Speed Belt	Belt Drive	2-Speed Belt
Indoor Nominal CFM	4,000	3,500	4,000	3,500	4,000	3,500
Indoor motor FLA (Cooling)	7.8	6.4	3.9	3.3	2.5	2.4
Horsepower - RPM	2.0/1725	2.0/1725	2.0/1725	2.0/1725	2.0/1725	2.0/1725
Piston Size (Cooling)	0.086	0.086	0.086	0.086	0.086	0.086
Expansion Device	Orifice	Orifice	Orifice	Orifice	Orifice	Orifice
Filter Size (No. = 4)	16" x 24" x 2"	16" x 24" x 2"	16" x 24" x 2"	16" x 24" x 2"	16" x 24" x 2"	16" x 24" x 2"
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge Cir #1 & #2 (oz.)	225 / 225	225 / 225	225 / 225	225 / 225	225 / 225	225 / 225
Evaporator Coil Face Area (ft²)	10.2	10.2	10.2	10.2	10.2	10.2
Rows Deep/ Fins per Inch	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14
BELT DRIVE EVAP FAN DATA						
# of Wheels (D x W)	(1) 15" x 15"	(1) 15" x 15"	(1) 15" x 15"	(1) 15" x 15"	(1) 15" x 15"	(1) 15" x 15"
Motor Sheave / Blower Sheave	VL40 / AK74	VL40 / AK74	VL40 / AK74	VL40 / AK74	VL40 / AK74	VL40 / AK74
Belt	AX51	AX50	AX51	AX50	AX51	AX50
CONDENSER FAN / COIL						
Quantity of Condenser Fan Motors	2	2	2	2	2	2
Horsepower - RPM	½ - 1,075	½ - 1,075	½ - 1,075	½ - 1,075	½ - 1,125	½ - 1,125
Fan Diameter / # Fan Blades	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3
Outdoor Nominal CFM	7,200	7,200	7,200	7,200	7,200	7,200
Face Area (ft²)	32.4	32.4	32.4	32.4	32.4	32.4
# Coils / Rows Deep - Fins per Inch	2 / 2 - 22	2 / 2 - 22	2 / 2 - 22	2 / 2 - 22	2 / 2 - 22	2 / 2 - 22
Piston Size (Heating)	0.064	0.064	0.064	0.064	0.064	0.064
COMPRESSOR						
Quantity / Type / Stage	2 / Scroll / 1	2 / Scroll / 1	2 / Scroll / 1	2 / Scroll / 1	2 / Scroll / 1	2 / Scroll / 1
Compressor RLA / LRA ea.	16 / 110.0	16 / 110.0	7.8 / 52.0	7.8 / 52.0	5.7 / 38.9	5.7 / 38.9
ELECTRICAL DATA						
Voltage/Phase/ Frequency	208-230/3/60	208-230/3/60	460/3/60	460/3/60	575/3/60	575/3/60
Belt-Driven Standard Max Static	1.4	1.4	1.4	1.4	1.4	1.4
Outdoor Fan RLA ea.	2.40	2.40	1.20	1.20	0.90	0.90
Total Unit Amps	45	43	22	21	16	16
Min. Circuit Ampacity ¹	49	47	24	23	17	17
Max. Overcurrent Protection (amps) ²	60	60	30	30	20	20
Entrance Power Supply & Control Voltage	Locating Dimple	Locating Dimple	Locating Dimple	Locating Dimple	Locating Dimple	Locating Dimple
OPERATING WEIGHT/SHIPPING (LBS)	1285/ 1310	1285/ 1310	1285/ 1310	1285/ 1310	1285/ 1310	1285/ 1310

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.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.5A for 208/230V units, increase by 3.75A for 460V units, and by 3A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly.

PRODUCT SPECIFICATIONS — 12½ TONS

	CPH150 ***3B***A*	CPH150 ***4B***A*	CPH150 ***7B***A*
COOLING CAPACITY			
Total, BTU/h	140,000	140,000	140,000
Sensible BTU/h	98,000	98,000	98,000
EER / IEER	10.6 / 10.7	10.6 / 10.7	10.6 / 10.7
Decibels	83	83	83
ARI Reference #s	5104784	5104784	5104784
HEATING CAPACITY			
BTU/hr (47°F)	142,000	142,000	142,000
COP (47°F)	3.2	3.2	3.2
BTU/hr (17°F)	82,000	82,000	82,000
COP (17°F)	2.1	2.1	2.1
EVAPORATOR MOTOR / COIL			
Motor Type (Belt Drive)	AX49	AX49	AX49
Indoor Nominal CFM	5,000	5,000	5,000
Indoor Motor FLA (Cooling)	9.4	4.7	4.2
Horsepower - RPM	3.0 - 1,725	3.0 - 1,725	3.0 - 1,725
Piston Size (Cooling)	0.096	0.096	0.096
Filter Size (Qty)	(4) 20" x 25" x 2"	(4) 20" x 25" x 2"	(4) 20" x 25" x 2"
Drain Size (NPT)	¾"	¾"	¾"
R-410A Refrigerant Charge Cir #1 & #2 (oz.)	290 / 290	290 / 290	290 / 290
Evaporator Coil Face Area (ft²)	14.7	14.7	14.7
Rows Deep / Fins per Inch	4 / 15	4 / 15	4 / 15
# of Wheels (D x W)	(1) 15" x 15"	(1) 15" x 15"	(1) 15" x 15"
Motor Sheave / Blower Sheave	VL40 / AK66	VL40 / AK66	VL40 / AK66
CONDENSER FAN / COIL			
Quantity of condenser Fan Motors	2	2	2
Horsepower - RPM	½ - 1,075	½ - 1,075	½ - 1,075
Fan Diameter / # Fan Blades	22/ 3	22/ 3	22/ 3
Outdoor Nominal CFM	7,200	7,200	7,200
Face Area (ft²)	35.3	35.3	35.3
Rows Deep / Fins per Inch	2/3 rows 15 fpi	2/3 rows 15 fpi	2/3 rows 15 fpi
Piston Size (Heating)	0.067	0.067	0.067
COMPRESSOR			
Quantity / Stage	2 / Single	2 / Single	2 / Single
Type	Scroll	Scroll	Scroll
Compressor RLA / LRA ea.	22.4 / 149	10.6 / 75	7.7 / 54
ELECTRICAL DATA / STATIC			
Voltage / Phase / Frequency	208-230/ 3/ 60	460/ 3/ 60	575/ 3/ 60
Standard Max Static	1.4"	1.4"	1.4"
Outdoor Fan FLA ea.	2.4	1.2	0.9
Total Unit Amps	59	28	21.4
Min. Circuit Ampacity ¹	65	31	23
Max. Overcurrent Protection (amps) ²	80	40	30
Entrance Power Supply & Control Voltage	Locating Dimple	Locating Dimple	Locating Dimple
OPERATING WEIGHT (LBS)			
	1325	1325	1325
SHIP WEIGHT (LBS)			
	1350	1350	1350

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.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.5A for 208/230V units, increase by 3.75A for 460V units, and by 3A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly.

EXPANDED HEATING DATA

CPH090

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	114.4	108.3	101.9	95.3	91.0	88.2	81.9	75.5	70.5	65.0	59.9	56.6	54.5	48.9	43.3	37.8	32.2	26.4
T/R	35.3	33.4	31.5	29.4	28.1	27.2	25.3	23.3	21.7	20.1	18.5	17.5	16.8	15.1	13.4	11.7	9.9	8.2
kW	8.22	8.06	7.91	7.75	7.66	7.59	7.44	7.29	6.93	6.78	6.63	6.54	6.49	6.33	6.19	6.04	5.89	5.74
Amps	30.2	28.4	26.9	25.6	24.9	24.5	23.4	22.5	21.8	21.1	20.3	20.0	19.8	19.1	18.2	17.4	16.5	15.4
COP	4.07	3.93	3.77	3.60	3.48	3.40	3.22	3.03	2.98	2.81	2.64	2.53	2.46	2.26	2.05	1.83	1.60	1.35
HI PR	424	406	390	373	365	358	344	330	316	302	290	283	278	267	257	246	238	229
LO PR	134	124	117	107	101	97	89	80	72	64	56	52	51	43	37	31	27	21

CPH102

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	128.2	121.4	114.2	106.8	102.0	98.8	91.8	84.7	69.2	63.8	58.8	55.5	53.4	48.0	42.5	37.1	31.6	25.9
T/R	34.9	33.1	31.1	29.1	27.8	26.9	25.0	23.1	18.8	17.4	16.0	15.1	14.6	13.1	11.6	10.1	8.6	7.1
kW	9.34	9.17	8.99	8.82	8.72	8.64	8.48	8.30	7.8	7.7	7.5	7.4	7.3	7.2	7.0	6.9	6.7	6.5
Amps	37.6	35.2	33.2	31.6	30.6	30.1	28.7	27.5	26.6	25.6	24.6	24.2	23.9	23.0	21.8	20.8	19.6	18.2
COP	4.02	3.87	3.72	3.54	3.42	3.35	3.17	2.98	2.6	2.4	2.3	2.2	2.1	2.0	1.8	1.6	1.4	1.2
HI PR	13.7	13.2	12.7	12.1	11.7	11.4	10.8	10.2	8.8	8.3	7.8	7.5	7.3	6.7	6.1	5.4	4.7	4.0
LO PR	419	401	386	369	360	354	340	326	312.5	298.4	286.5	279.7	274.6	264.2	254.1	243.6	235.0	226.7
LO PR	136	126	118	108	103	99	91	81	73	65	57	53	51	43	37	32	28	22

CPH120

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	150.8	142.8	134.4	125.6	120.0	116.3	108.0	99.6	87.7	81.0	74.6	70.4	67.8	60.8	53.9	47.0	40.1	32.9
T/R	34.9	33.1	31.1	29.1	27.8	26.9	25.0	23.1	20.3	18.7	17.3	16.3	15.7	14.1	12.5	10.9	9.3	7.6
kW	10.70	10.50	10.31	10.11	10.00	9.92	9.73	9.54	8.65	8.47	8.30	8.20	8.13	7.95	7.78	7.61	7.44	7.27
Amps	41.3	38.9	36.9	35.3	34.3	33.8	32.4	31.2	30.2	29.3	28.3	27.8	27.6	26.6	25.4	24.4	23.3	21.8
COP	4.13	3.98	3.82	3.64	3.51	3.43	3.25	3.06	2.97	2.80	2.63	2.51	2.44	2.24	2.03	1.81	1.58	1.32
HI PR	439	421	405	387	378	371	356	342	328	313	301	293	288	277	266	256	246	238
LO PR	133	123	115	106	100	96	89	79	71	64	56	52	50	42	37	31	27	21

CPH150

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	178.5	169.0	159.0	148.7	142.0	137.6	127.8	117.9	104.7	96.6	89.0	84.0	80.9	72.6	64.3	56.1	47.9	39.2
T/R	39.4	37.3	35.1	32.8	31.3	30.3	28.2	26.0	23.1	21.3	19.6	18.5	17.8	16.0	14.2	12.4	10.6	8.6
kW	13.89	13.64	13.39	13.14	13.00	12.89	12.65	12.40	12.36	12.10	11.85	11.70	11.60	11.34	11.09	10.85	10.59	10.34
Amps	3.76	3.62	3.48	3.31	3.20	3.12	2.96	2.78	2.48	2.34	2.20	2.10	2.04	1.87	1.70	1.51	1.32	1.11
COP	12.8	12.4	11.9	11.3	10.9	10.7	10.1	9.5	8.5	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.5	3.8
HI PR	471	452	434	415	405	398	382	367	351	336	322	315	309	297	286	274	264	255
LO PR	129	120	113	103	98	94	86	77	69	62	54	51	49	41	36	30	26	21

Design Super Heat 7°± 2 @ Suction Service Port 47 test condition

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.
High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting.

Amps = unit amps (comp.+fans)
kW = Total system power

EXPANDED COOLING DATA — 7½ TONS

IDB		OUTDOOR AMBIENT TEMPERATURE																								
		65				75				85				95				105				115				
		ENTERING INDOOR WET BULB TEMPERATURE																								
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	3375	MBh	88.2	91.4	100.2	-	86.1	89.3	97.8	-	84.1	87.2	95.5	-	82.0	85.0	93.2	-	77.9	80.8	88.5	-	72.2	74.8	82.0	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.83	0.70	0.48	-	0.84	0.70	0.49	-
		ΔT	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		kW	6.19	6.32	6.50	-	6.64	6.77	6.98	-	7.03	7.17	7.39	-	7.37	7.53	7.76	-	7.67	7.83	8.08	-	7.92	8.09	8.35	-
		Hi PR	234	252	266	-	262	282	298	-	298	321	339	-	340	366	386	-	382	411	434	-	422	454	480	-
	Lo PR	108	115	126	-	114	122	133	-	119	126	138	-	125	133	145	-	131	139	152	-	135	144	157	-	
3000	MBh	85.6	88.7	97.2	-	83.6	86.7	95.0	-	81.6	84.6	92.7	-	79.7	82.6	90.5	-	75.7	78.4	85.9	-	70.1	72.6	79.6	-	
	S/T	0.70	0.58	0.40	-	0.72	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-	
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	
	kW	6.15	6.27	6.45	-	6.59	6.72	6.92	-	6.98	7.12	7.34	-	7.32	7.47	7.70	-	7.61	7.77	8.01	-	7.86	8.03	8.28	-	
	Hi PR	231	249	263	-	260	279	295	-	295	318	336	-	336	362	382	-	378	407	430	-	418	450	475	-	
	Lo PR	107	114	124	-	113	120	132	-	118	125	137	-	124	132	144	-	130	138	150	-	134	143	156	-	
2400	MBh	79.0	81.9	89.7	-	77.2	80.0	87.7	-	75.4	78.1	85.6	-	73.5	76.2	83.5	-	69.8	72.4	79.3	-	64.7	67.1	73.5	-	
	S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.77	0.65	0.45	-	
	ΔT	20	18	13	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	13	-	19	17	13	-	
	kW	6.01	6.13	6.31	-	6.44	6.57	6.76	-	6.81	6.95	7.16	-	7.15	7.29	7.52	-	7.43	7.58	7.82	-	7.67	7.83	8.08	-	
	Hi PR	224	242	255	-	252	271	286	-	286	308	326	-	326	351	371	-	367	395	417	-	406	436	461	-	
	Lo PR	104	111	121	-	110	117	128	-	114	121	133	-	120	128	139	-	126	134	146	-	130	138	151	-	

IDB		OUTDOOR AMBIENT TEMPERATURE																								
		65				75				85				95				105				115				
		ENTERING INDOOR WET BULB TEMPERATURE																								
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	
75	3375	MBh	89.7	92.3	100.0	107.3	87.6	90.2	97.6	104.8	85.5	88.0	95.3	102.3	83.4	85.9	93.0	99.8	79.3	81.6	88.3	94.8	73.4	75.6	81.8	87.8
		S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
		ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	15	11	19	18	14	10
		kW	6.24	6.36	6.55	6.75	6.69	6.82	7.03	7.25	7.08	7.23	7.45	7.69	7.43	7.59	7.83	8.07	7.73	7.89	8.14	8.40	7.99	8.16	8.42	8.69
		Hi PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
	Lo PR	109	116	127	135	116	123	134	143	120	128	139	149	126	134	146	156	132	141	154	163	137	145	159	169	
3000	MBh	87.1	89.7	97.0	104.1	85.1	87.6	94.8	101.7	83.0	85.5	92.5	99.3	81.0	83.4	90.3	96.9	77.0	79.2	85.8	92.0	71.3	73.4	79.4	85.3	
	S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.82	0.62	0.40	
	ΔT	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	
	kW	6.19	6.32	6.50	6.70	6.64	6.77	6.98	7.19	7.03	7.17	7.39	7.63	7.38	7.53	7.76	8.01	7.67	7.83	8.08	8.34	7.92	8.09	8.35	8.62	
	Hi PR	234	252	266	277	262	282	298	311	298	321	339	354	340	366	386	403	382	411	434	453	422	454	480	501	
	Lo PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	
2400	MBh	80.4	82.7	89.6	96.1	78.5	80.8	87.5	93.9	76.6	78.9	85.4	91.7	74.8	77.0	83.3	89.4	71.0	73.1	79.2	85.0	65.8	67.7	73.3	78.7	
	S/T	0.77	0.69	0.52	0.33	0.79	0.71	0.54	0.35	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.88	0.79	0.60	0.38	
	ΔT	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	13	24	22	18	12	22	20	17	12	
	kW	6.06	6.18	6.36	6.55	6.49	6.62	6.82	7.02	6.87	7.01	7.22	7.45	7.20	7.35	7.58	7.82	7.49	7.65	7.88	8.13	7.73	7.90	8.15	8.41	
	Hi PR	227	244	258	269	254	274	289	302	289	311	329	343	330	355	375	391	371	399	421	439	410	441	466	486	
	Lo PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	153	162	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) Rating Conditions
 Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 7½ TONS (CONT.)

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		ENTERING INDOOR WET BULB TEMPERATURE																							
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
3375	MBh	91.3	93.3	99.7	106.5	89.2	91.1	97.3	104.1	87.0	88.9	95.0	101.6	84.9	86.8	92.7	99.1	80.7	82.4	88.1	94.1	74.7	76.4	81.6	87.2
	S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	1.00	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
	ΔT	23	22	19	15	23	22	19	15	24	22	19	15	23	22	19	15	22	22	19	15	20	21	18	14
	kW	6.29	6.41	6.60	6.80	6.74	6.88	7.08	7.30	7.14	7.29	7.51	7.75	7.49	7.65	7.89	8.14	7.79	7.96	8.21	8.47	8.05	8.22	8.48	8.76
	Hi PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
Lo PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	160	171	
80	MBh	88.6	90.6	96.8	103.4	86.6	88.5	94.5	101.0	84.5	86.3	92.3	98.6	82.4	84.2	90.0	96.2	78.3	80.0	85.5	91.4	72.5	74.1	79.2	84.7
	S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15
	kW	6.24	6.36	6.55	6.75	6.69	6.82	7.03	7.25	7.08	7.23	7.45	7.69	7.43	7.59	7.83	8.07	7.73	7.89	8.14	8.40	7.99	8.16	8.42	8.69
	Hi PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	407	386	415	439	458	427	459	485	506
Lo PR	109	116	127	135	116	123	134	143	120	128	139	149	126	134	147	156	132	141	154	164	137	145	159	169	
2400	MBh	81.8	83.6	89.3	95.5	79.9	81.6	87.2	93.2	78.0	79.7	85.1	91.0	76.1	77.8	83.1	88.8	72.3	73.9	78.9	84.4	67.0	68.4	73.1	78.1
	S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
	ΔT	26	25	22	18	27	26	22	18	27	26	22	18	27	26	22	18	27	25	22	18	25	24	21	16
	kW	6.10	6.22	6.40	6.60	6.54	6.67	6.87	7.08	6.92	7.06	7.28	7.50	7.26	7.41	7.64	7.88	7.55	7.71	7.95	8.20	7.80	7.96	8.21	8.48
	Hi PR	229	246	260	271	257	277	292	305	292	315	332	346	333	358	378	395	375	403	426	444	414	445	470	490
Lo PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164	
3375	MBh	92.9	94.7	99.2	105.8	90.7	92.5	96.8	103.3	88.6	90.3	94.5	100.9	86.4	88.1	92.2	98.4	82.1	83.7	87.6	93.5	76.0	77.5	81.2	86.6
	S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	22	23	23	20	21	21	21	18
	kW	6.33	6.46	6.65	6.85	6.79	6.93	7.14	7.36	7.19	7.34	7.57	7.81	7.55	7.71	7.95	8.20	7.85	8.02	8.27	8.54	8.12	8.29	8.55	8.83
	Hi PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	495	516
Lo PR	112	119	130	138	118	125	137	146	122	130	142	152	129	137	149	159	135	143	157	167	139	148	162	173	
85	MBh	90.2	91.9	96.3	102.7	88.1	89.8	94.0	100.3	86.0	87.6	91.8	97.9	83.9	85.5	89.6	95.5	79.7	81.2	85.1	90.8	73.8	75.2	78.8	84.1
	S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74
	ΔT	25	25	23	20	26	25	24	21	26	25	24	21	26	25	24	21	24	25	24	20	23	23	22	19
	kW	6.29	6.41	6.60	6.80	6.74	6.88	7.08	7.30	7.14	7.29	7.51	7.75	7.49	7.65	7.89	8.14	7.79	7.96	8.21	8.47	8.05	8.22	8.48	8.76
	Hi PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
Lo PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	160	171	
2400	MBh	83.2	84.8	88.9	94.8	81.3	82.9	86.8	92.6	79.4	80.9	84.7	90.4	77.4	78.9	82.7	88.2	73.6	75.0	78.5	83.8	68.1	69.4	72.7	77.6
	S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.80	0.65	0.94	0.90	0.82	0.66	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.98	0.88	0.71
	ΔT	28	28	26	23	28	28	26	23	28	28	26	23	29	28	27	23	28	28	26	23	26	26	25	21
	kW	6.15	6.27	6.45	6.65	6.59	6.72	6.92	7.13	6.97	7.12	7.33	7.56	7.32	7.47	7.70	7.94	7.61	7.77	8.01	8.27	7.86	8.02	8.28	8.55
	Hi PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	399	378	407	430	448	418	450	475	495
Lo PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHRI Rating Conditions
 Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F, pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 8½ TONS

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		ENTERING INDOOR WET BULB TEMPERATURE																							
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
3820	MBh	100.0	103.6	113.5	-	97.6	101.2	110.9	-	95.3	98.8	108.2	-	93.0	96.4	105.6	-	88.3	91.6	100.3	-	88.3	91.6	100.3	-
	S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-
	ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
	kW	7.18	7.32	7.53	-	7.69	7.84	8.07	-	8.13	8.29	8.54	-	8.52	8.69	8.96	-	8.85	9.03	9.31	-	8.85	9.03	9.31	-
	HI PR	238	256	270	-	267	287	303	-	303	326	345	-	345	372	392	-	389	418	442	-	389	418	442	-
70	LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	128	136	149	-
	MBh	97.0	100.6	110.2	-	94.8	98.2	107.6	-	92.5	95.9	105.1	-	90.3	93.6	102.5	-	85.8	88.9	97.4	-	85.8	88.9	97.4	-
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
	kW	7.13	7.27	7.48	-	7.63	7.78	8.01	-	8.07	8.23	8.47	-	8.45	8.63	8.89	-	8.78	8.96	9.24	-	8.78	8.96	9.24	-
2980	HI PR	235	253	267	-	264	284	300	-	300	323	341	-	342	368	389	-	385	414	437	-	385	414	437	-
	LO PR	105	112	122	-	111	118	129	-	115	123	134	-	121	129	141	-	127	135	147	-	127	135	147	-
	MBh	89.6	92.8	101.7	-	87.5	90.7	99.3	-	85.4	88.5	97.0	-	83.3	86.4	94.6	-	79.2	82.0	89.9	-	79.2	82.0	89.9	-
	S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.64	0.44	-	0.76	0.64	0.44	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
3820	kW	6.98	7.11	7.31	-	7.46	7.61	7.83	-	7.89	8.04	8.28	-	8.26	8.43	8.68	-	8.58	8.75	9.02	-	8.58	8.75	9.02	-
	HI PR	228	246	259	-	256	276	291	-	291	313	331	-	332	357	377	-	373	402	424	-	373	402	424	-
	LO PR	102	108	118	-	108	114	125	-	112	119	130	-	117	125	136	-	123	131	143	-	123	131	143	-
	MBh	101.6	104.7	113.3	121.6	99.3	102.2	110.6	118.8	96.9	99.8	108.0	115.9	94.6	97.4	105.4	113.1	89.8	92.5	100.1	107.4	89.8	92.5	100.1	107.4
	S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.59	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.94	0.84	0.64	0.41
75	ΔT	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	20	19	15	11
	kW	7.24	7.38	7.59	7.81	7.74	7.90	8.13	8.37	8.19	8.36	8.61	8.87	8.58	8.76	9.03	9.31	8.92	9.10	9.38	9.68	8.92	9.10	9.38	9.68
	HI PR	240	258	273	284	269	290	306	319	306	330	348	363	349	375	396	414	392	422	446	465	392	422	446	465
	LO PR	107	114	124	132	113	120	131	140	118	125	137	145	123	131	143	153	129	138	150	160	129	138	150	160
	MBh	98.7	101.6	110.0	118.0	96.4	99.2	107.4	115.3	94.1	96.9	104.9	112.5	91.8	94.5	102.3	109.8	87.2	89.8	97.2	104.3	87.2	89.8	97.2	104.3
3820	S/T	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.38	0.90	0.80	0.61	0.39	0.90	0.80	0.61	0.39
	ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10
	kW	7.19	7.32	7.53	7.75	7.69	7.84	8.07	8.31	8.13	8.29	8.54	8.80	8.52	8.69	8.96	9.24	8.85	9.03	9.31	9.60	8.85	9.03	9.31	9.60
	HI PR	238	256	270	282	267	287	303	316	303	326	345	359	345	372	393	409	389	418	442	461	389	418	442	461
	LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	128	136	149	159
3400	MBh	91.1	93.8	101.5	108.9	89.0	91.6	99.1	106.4	86.8	89.4	96.8	103.9	84.7	87.2	94.4	101.3	80.5	82.9	89.7	96.3	80.5	82.9	89.7	96.3
	S/T	0.76	0.68	0.51	0.33	0.79	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.59	0.38	0.86	0.77	0.59	0.38
	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	21	20	16	11
	kW	7.03	7.16	7.37	7.58	7.52	7.66	7.89	8.12	7.95	8.10	8.34	8.60	8.32	8.49	8.75	9.02	8.65	8.82	9.09	9.38	8.65	8.82	9.09	9.38
	HI PR	231	248	262	273	259	278	294	307	294	317	334	349	335	361	381	397	377	406	428	447	377	406	428	447
2980	LO PR	103	109	119	127	109	116	126	134	113	120	131	140	119	126	138	147	124	132	144	154	124	132	144	154
	MBh	83.2	85.7	92.7	99.5	81.2	83.7	90.7	97.5	79.2	81.7	88.7	95.5	77.1	79.6	86.6	93.4	73.0	75.5	82.5	89.3	73.0	75.5	82.5	89.3
	S/T	0.95	0.85	0.64	0.41	0.98	0.88	0.67	0.44	1.00	0.90	0.69	0.46	1.02	0.92	0.71	0.48	1.04	0.94	0.73	0.50	1.04	0.94	0.73	0.50
	ΔT	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10
	kW	9.04	9.31	9.62	10.00	8.85	9.12	9.43	9.74	8.66	8.93	9.24	9.55	8.47	8.74	9.05	9.36	8.28	8.55	8.86	9.17	8.28	8.55	8.86	9.17

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) Rating Conditions
 Design Superheat 7±2 °F; Design Subcooling 12.4±2 °F; pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 8½ TONS (CONT.)

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		ENTERING INDOOR WET BULB TEMPERATURE																							
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	MBh	103.5	105.7	112.9	120.7	101.0	103.3	110.3	117.9	98.6	100.8	107.7	115.1	96.2	98.3	105.1	112.3	91.4	93.4	99.8	106.7	84.7	86.5	92.5	98.8
	S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.79	0.59
	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	21	18	14
	kW	7.29	7.43	7.65	7.87	7.80	7.96	8.19	8.44	8.25	8.42	8.67	8.94	8.65	8.83	9.10	9.38	8.99	9.18	9.46	9.76	9.28	9.48	9.77	10.08
	HI PR	2.42	2.61	2.76	2.87	2.72	2.93	3.09	3.22	3.09	3.33	3.52	3.67	3.52	3.79	4.00	4.18	3.96	4.27	4.51	4.70	4.38	4.71	4.98	5.19
LO PR	1.08	1.15	1.26	1.34	1.14	1.22	1.33	1.41	1.19	1.26	1.38	1.47	1.25	1.33	1.45	1.54	1.31	1.39	1.52	1.62	1.35	1.44	1.57	1.67	
3820	MBh	100.4	102.6	109.7	117.2	98.1	100.2	107.1	114.5	95.8	97.9	104.6	111.8	93.4	95.5	102.0	109.0	88.8	90.7	96.9	103.6	82.2	84.0	89.8	96.0
	S/T	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57
	ΔT	23	22	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15
	kW	7.24	7.38	7.59	7.81	7.74	7.90	8.13	8.37	8.19	8.36	8.61	8.87	8.59	8.76	9.03	9.31	8.92	9.11	9.39	9.68	9.21	9.40	9.69	10.00
	HI PR	2.40	2.58	2.73	2.85	2.69	2.90	3.06	3.19	3.06	3.30	3.48	3.63	3.49	3.75	3.97	4.14	3.93	4.22	4.46	4.65	4.34	4.67	4.93	5.14
LO PR	1.07	1.14	1.24	1.32	1.13	1.20	1.31	1.40	1.18	1.25	1.37	1.45	1.24	1.31	1.43	1.53	1.29	1.38	1.50	1.60	1.34	1.42	1.55	1.66	
2980	MBh	92.7	94.7	101.2	108.2	90.5	92.5	98.9	105.7	88.4	90.3	96.5	103.2	86.2	88.1	94.1	100.6	81.9	83.7	89.4	95.6	75.9	77.5	82.8	88.6
	S/T	0.83	0.78	0.64	0.48	0.86	0.81	0.66	0.49	0.89	0.83	0.68	0.51	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.96	0.90	0.73	0.55
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15
	kW	7.08	7.22	7.42	7.64	7.57	7.72	7.95	8.18	8.01	8.17	8.41	8.66	8.39	8.56	8.82	9.09	8.71	8.89	9.16	9.45	8.99	9.18	9.46	9.76
	HI PR	2.33	2.51	2.65	2.76	2.61	2.81	2.97	3.10	2.97	3.20	3.38	3.52	3.38	3.64	3.85	4.01	3.81	4.10	4.33	4.51	4.21	4.53	4.78	4.99
LO PR	1.04	1.11	1.21	1.28	1.10	1.17	1.27	1.36	1.14	1.21	1.32	1.41	1.20	1.27	1.39	1.48	1.26	1.34	1.46	1.55	1.30	1.38	1.51	1.61	
85	MBh	105.3	107.3	112.4	119.9	102.8	104.8	109.8	117.1	100.4	102.3	107.1	114.3	97.9	99.8	104.5	111.5	93.0	94.8	99.3	105.9	86.2	87.8	92.0	98.1
	S/T	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.70	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
	ΔT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	22	23	23	19	21	21	21	18
	kW	7.34	7.49	7.70	7.93	7.86	8.02	8.25	8.50	8.32	8.48	8.74	9.01	8.72	8.90	9.17	9.45	9.06	9.25	9.53	9.83	9.35	9.55	9.85	10.16
	HI PR	2.45	2.64	2.78	2.90	2.75	2.96	3.12	3.26	3.13	3.36	3.55	3.70	3.56	3.83	4.04	4.22	4.00	4.31	4.55	4.75	4.42	4.76	5.03	5.24
LO PR	1.09	1.16	1.27	1.35	1.15	1.23	1.34	1.43	1.20	1.28	1.39	1.48	1.26	1.34	1.46	1.56	1.32	1.40	1.53	1.63	1.37	1.45	1.59	1.69	
3820	MBh	102.2	104.2	109.1	116.4	99.8	101.7	106.6	113.7	97.4	99.3	104.0	111.0	95.1	96.9	101.5	108.3	90.3	92.1	96.4	102.9	83.7	85.3	89.3	95.3
	S/T	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.73
	ΔT	25	25	23	20	25	25	24	20	25	25	24	20	26	25	24	21	24	25	23	20	23	23	22	19
	kW	7.29	7.43	7.65	7.87	7.80	7.96	8.19	8.44	8.25	8.42	8.67	8.94	8.65	8.83	9.10	9.38	8.99	9.18	9.46	9.76	9.28	9.48	9.77	10.08
	HI PR	2.42	2.61	2.76	2.87	2.72	2.93	3.09	3.22	3.09	3.33	3.52	3.67	3.52	3.79	4.00	4.18	3.96	4.27	4.51	4.70	4.38	4.71	4.98	5.19
LO PR	1.08	1.15	1.26	1.34	1.14	1.22	1.33	1.41	1.19	1.26	1.38	1.47	1.25	1.33	1.45	1.54	1.31	1.39	1.52	1.62	1.35	1.44	1.57	1.67	
3400	MBh	94.3	96.2	100.7	107.4	92.1	93.9	98.4	104.9	89.9	91.7	96.0	102.4	87.7	89.4	93.7	99.9	83.4	85.0	89.0	94.9	77.2	78.7	82.4	87.9
	S/T	0.87	0.84	0.76	0.62	0.91	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.96	0.87	0.70	1.00	0.97	0.87	0.71
	ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	26	24	21	26	25	24	21	24	23	22	19
	kW	7.13	7.27	7.48	7.69	7.63	7.78	8.01	8.25	8.07	8.23	8.47	8.73	8.45	8.62	8.89	9.16	8.78	8.96	9.24	9.52	9.06	9.25	9.54	9.84
	HI PR	2.35	2.53	2.67	2.79	2.64	2.84	3.00	3.13	3.00	3.23	3.41	3.56	3.42	3.68	3.88	4.05	3.85	4.14	4.37	4.56	4.25	4.57	4.83	5.04
LO PR	1.05	1.12	1.22	1.30	1.11	1.18	1.29	1.37	1.15	1.23	1.34	1.42	1.21	1.29	1.41	1.50	1.27	1.35	1.47	1.57	1.31	1.40	1.52	1.62	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHRI Rating Conditions
 Design Superheat 7±2 °F, Design Subcooling 12 ±2 °F, pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 10 TONS

IDB		OUTDOOR AMBIENT TEMPERATURE																																			
		65						75						85						95						105						115					
		AIRFLOW				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE											
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	59	63	67	71						
4500	MBh	115.6	119.8	131.3	-	112.9	117.1	128.3	-	110.3	114.3	125.2	-	107.6	111.5	122.1	-	102.2	105.9	116.0	-	94.7	98.1	107.5	-	85.2	88.6	98.0	-	75.7	79.1	88.5	-				
	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	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-				
	ΔT	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	18	15	12	-	18	15	12	-	17	14	11	-				
	Hi Pr	246	264	279	-	276	297	313	-	314	337	356	-	357	384	406	-	402	432	457	-	444	478	504	-	444	478	504	-	444	478	504	-				
	Lo Pr	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-	134	143	156	-	134	143	156	-				
70	MBh	112.3	116.4	127.5	-	109.7	113.7	124.5	-	107.0	110.9	121.6	-	104.4	108.2	118.6	-	99.2	102.8	112.7	-	91.9	95.3	104.4	-	81.4	84.8	94.2	-	71.9	75.3	84.8	-				
	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	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-				
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	18	15	11	-	17	15	11	-	17	15	11	-				
	Hi Pr	243	262	276	-	273	294	310	-	310	334	353	-	354	381	402	-	398	428	452	-	440	473	499	-	440	473	499	-	440	473	499	-				
	Lo Pr	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-	133	141	154	-	133	141	154	-				
3200	MBh	103.6	107.4	117.7	-	101.2	104.9	114.9	-	98.8	102.4	112.2	-	96.4	99.9	109.5	-	91.6	94.9	104.0	-	84.8	87.9	96.3	-	74.3	77.4	85.8	-	63.8	66.9	75.3	-				
	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	-	0.78	0.66	0.45	-	0.78	0.66	0.45	-				
	ΔT	20	18	13	-	21	18	14	-	21	18	14	-	21	18	14	-	20	18	13	-	20	17	13	-	19	17	13	-	19	17	13	-				
	Hi Pr	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	438	-	426	459	484	-	426	459	484	-	426	459	484	-				
	Lo Pr	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-	129	137	149	-	129	137	149	-				
4500	MBh	117.6	121.1	131.0	140.6	114.9	118.3	128.0	137.4	112.1	115.4	125.0	134.1	109.4	112.6	121.9	130.8	103.9	107.0	115.8	124.3	96.3	99.1	107.3	115.1	85.8	88.6	96.8	104.6	75.3	78.1	86.3	94.1				
	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	0.97	0.87	0.66	0.42	0.97	0.87	0.66	0.42				
	ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	15	11	20	19	15	11	19	18	14	10	19	18	14	10				
	Hi Pr	248	267	282	294	279	300	316	330	317	341	360	375	361	388	410	428	406	437	461	481	448	483	510	531	448	483	510	531	448	483	510	531				
	Lo Pr	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	135	144	157	167	135	144	157	167				
75	MBh	114.2	117.5	127.2	136.6	111.5	114.8	124.3	133.4	108.9	112.1	121.3	130.2	106.2	109.3	118.4	127.0	100.9	103.9	112.4	120.7	93.5	96.2	104.2	111.8	83.0	85.7	93.7	101.7	72.5	75.2	83.2	91.2				
	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	0.93	0.83	0.63	0.40	0.93	0.83	0.63	0.40				
	ΔT	21	19	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	20	18	15	10	20	18	15	10				
	Hi Pr	246	264	279	291	276	297	313	327	314	337	356	372	357	384	406	423	402	432	457	476	444	478	505	526	444	478	505	526	444	478	505	526				
	Lo Pr	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	134	143	156	166	134	143	156	166				
3200	MBh	105.4	108.5	117.4	126.0	102.9	106.0	114.7	123.1	100.5	103.4	112.0	120.2	98.0	100.9	109.2	117.2	93.1	95.9	103.8	111.4	86.3	88.8	96.1	103.2	75.8	78.3	85.6	92.9	65.3	67.8	75.1	82.4				
	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	0.89	0.80	0.60	0.39	0.89	0.80	0.60	0.39				
	ΔT	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	13	24	22	18	12	22	20	17	12	22	20	17	12	22	20	17	12				
	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	431	463	489	510	431	463	489	510				
	Lo Pr	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	138	151	161	130	138	151	161	130	138	151	161				

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) Rating Conditions
 Design Superheat 7±2 °F; Design Subcooling 12 ±2 °F; pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 10 TONS (CONT.)

IDB		OUTDOOR AMBIENT TEMPERATURE																																			
		65						75						85						95						105						115					
		AIRFLOW				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE				ENTERING INDOOR WET BULB TEMPERATURE							
80	4500	MBh	119.7	122.3	130.7	139.7	116.9	119.4	127.6	136.4	114.1	116.6	124.6	133.2	111.3	113.8	121.5	129.9	105.8	108.1	115.5	123.4	105.8	108.1	115.5	123.4	98.0	100.1	107.0	114.3							
		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	1.00	0.81	0.60	1.00	1.00	0.81	0.60	1.00	1.00	0.81	0.61						
		ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	22	19	15	22	22	19	15	20	20	18	14						
		Hi Pr	251	270	285	297	281	303	320	333	320	344	364	379	364	392	414	432	410	441	466	486	453	487	515	537	453	487	515	537							
		Lo Pr	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	137	145	159	169							
		MBh	116.2	118.7	126.9	135.6	113.5	116.0	123.9	132.4	110.8	113.2	121.0	129.3	108.1	110.4	118.0	126.1	102.7	104.9	112.1	119.8	95.1	97.2	103.8	111.0	95.1	97.2	103.8	111.0							
	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								
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15	22	21	18	15								
	Hi Pr	248	267	282	294	279	300	317	330	317	341	360	375	361	388	410	428	406	437	461	481	448	483	510	532	448	483	510	532								
	Lo Pr	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	135	144	157	167								
	3200	MBh	107.2	109.6	117.1	125.2	104.8	107.0	114.4	122.3	102.3	104.5	111.6	119.3	99.8	101.9	108.9	116.4	94.8	96.8	103.5	110.6	87.8	89.7	95.8	102.5	87.8	89.7	95.8	102.5							
		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	0.98	0.92	0.75	0.56							
ΔT		26	25	22	17	27	25	22	18	27	25	22	18	27	26	22	18	26	25	22	18	25	24	21	16	25	24	21	16								
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	435	468	494	516								
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	131	140	152	162								
MBh		121.8	124.1	130.0	138.7	118.9	121.2	127.0	135.5	116.1	118.4	124.0	132.2	113.3	115.5	120.9	129.0	107.6	109.7	114.9	122.6	99.7	101.6	106.4	113.5	99.7	101.6	106.4	113.5								
85	4500	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	0.96	0.78	1.00	1.00	0.96	0.79							
		ΔT	24	24	22	19	24	24	23	20	24	24	23	20	23	24	23	20	22	22	23	20	20	21	21	20	21	21	18								
		Hi Pr	253	272	288	300	284	306	323	337	323	348	367	383	368	396	418	436	414	446	471	491	457	492	520	542	457	492	520	542							
		Lo Pr	110	117	128	137	117	124	135	144	121	129	141	150	127	135	148	158	133	142	155	165	138	147	160	171	138	147	160	171							
		MBh	118.2	120.5	126.2	134.7	115.5	117.7	123.3	131.5	112.7	114.9	120.3	128.4	110.0	112.1	117.4	125.3	104.5	106.5	111.5	119.0	96.8	98.7	103.3	110.2	96.8	98.7	103.3	110.2							
		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	0.92	0.75	1.00	1.00	0.92	0.75							
	3200	ΔT	25	25	23	20	25	25	24	21	26	25	24	21	25	25	24	21	24	24	24	20	22	23	22	19	22	23	22	19							
		Hi Pr	251	270	285	297	281	303	320	333	320	344	364	379	364	392	414	432	410	441	466	486	453	487	515	537	453	487	515	537							
		Lo Pr	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	137	145	159	169							
		MBh	109.1	111.2	116.5	124.3	106.6	108.6	113.8	121.4	104.0	106.1	111.1	118.5	101.5	103.5	108.4	115.6	96.4	98.3	103.0	109.8	89.3	91.1	95.4	101.7	89.3	91.1	95.4	101.7							
		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							
		ΔT	28	28	26	23	28	28	26	23	28	28	26	23	29	28	27	23	28	28	26	23	26	26	24	21	26	26	24	21							
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	439	473	499	521									
Lo Pr	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164	133	141	154	164									

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHRI Rating Conditions
 Design Superheat 7±2 °F; Design Subcooling 12 ±2 °F; pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 12½ TONS

IDB		OUTDOOR AMBIENT TEMPERATURE																								
		65				75				85				95				105				115				
		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	AIRFLOW	ENTERING INDOOR WET BULB TEMPERATURE																								
	4725	MBh	137.2	142.2	155.8	-	134.0	138.9	152.2	-	130.8	135.6	148.5	-	127.6	132.3	144.9	-	121.2	125.7	137.7	-	112.3	116.4	127.5	-
		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	-
		ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
	4200	kW	10.63	10.82	11.11	-	11.33	11.54	11.86	-	11.94	12.17	12.52	-	12.49	12.73	13.10	-	12.95	13.21	13.59	-	13.35	13.62	14.02	-
		HI PR	247	266	281	-	277	298	315	-	315	339	358	-	359	386	408	-	404	434	459	-	446	480	507	-
		LO PR	100	107	117	-	106	113	123	-	110	117	128	-	116	123	135	-	121	129	141	-	126	134	146	-
	3360	MBh	133.2	138.1	151.3	-	130.1	134.8	147.7	-	127.0	131.6	144.2	-	123.9	128.4	140.7	-	117.7	122.0	133.7	-	109.0	113.0	123.8	-
		S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.77	0.64	0.45	-
		ΔT	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-
	4725	kW	10.55	10.75	11.04	-	11.25	11.46	11.77	-	11.86	12.08	12.43	-	12.40	12.64	13.00	-	12.86	13.11	13.49	-	13.25	13.52	13.92	-
		HI PR	244	263	278	-	274	295	312	-	312	336	355	-	355	382	404	-	400	430	454	-	442	475	502	-
LO PR		99	106	116	-	105	112	122	-	109	116	127	-	115	122	133	-	120	128	140	-	124	132	144	-	
3360	MBh	122.9	127.4	139.6	-	120.1	124.5	136.4	-	117.2	121.5	133.1	-	114.4	118.5	129.9	-	108.6	112.6	123.4	-	100.6	104.3	114.3	-	
	S/T	0.65	0.54	0.37	-	0.67	0.56	0.39	-	0.69	0.57	0.40	-	0.71	0.59	0.41	-	0.74	0.61	0.43	-	0.74	0.62	0.43	-	
	ΔT	22	19	14	-	22	19	14	-	22	19	14	-	22	19	15	-	22	19	14	-	20	18	13	-	
4725	kW	10.34	10.52	10.81	-	11.01	11.21	11.52	-	11.61	11.82	12.16	-	12.13	12.36	12.72	-	12.57	12.82	13.19	-	12.96	13.21	13.60	-	
	HI PR	237	255	269	-	266	286	302	-	303	326	344	-	345	371	392	-	388	417	441	-	428	461	487	-	
	LO PR	97	103	112	-	102	108	118	-	106	113	123	-	111	118	129	-	117	124	135	-	121	128	140	-	
75	AIRFLOW	ENTERING INDOOR WET BULB TEMPERATURE																								
	4725	MBh	139.5	143.6	155.5	166.9	136.3	140.3	151.9	163.0	133.0	137.0	148.2	159.1	129.8	133.6	144.6	155.2	123.3	126.9	137.4	147.5	114.2	117.6	127.3	136.6
		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
		ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11
	4200	kW	10.70	10.89	11.19	11.50	11.41	11.62	11.94	12.29	12.03	12.26	12.61	12.98	12.58	12.83	13.20	13.59	13.05	13.31	13.70	14.11	13.45	13.72	14.13	14.56
		HI PR	249	268	283	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	463	483	451	485	512	534
		LO PR	102	108	118	126	107	114	125	133	111	119	129	138	117	125	136	145	123	131	143	152	127	135	147	157
	3360	MBh	135.5	139.5	151.0	162.0	132.3	136.2	147.4	158.2	129.2	133.0	143.9	154.5	126.0	129.7	140.4	150.7	119.7	123.2	133.4	143.2	110.9	114.2	123.6	132.6
		S/T	0.76	0.68	0.52	0.33	0.79	0.71	0.53	0.34	0.81	0.72	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
		ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	20	16	11
	4725	kW	10.63	10.82	11.11	11.42	11.33	11.54	11.86	12.20	11.95	12.17	12.52	12.88	12.49	12.73	13.10	13.49	12.95	13.21	13.60	14.00	13.35	13.62	14.02	14.45
		HI PR	247	266	281	293	277	298	315	328	315	339	358	374	359	386	408	425	404	435	459	479	446	480	507	529
LO PR		101	107	117	124	106	113	123	131	110	117	128	137	116	123	135	143	121	129	141	150	126	134	146	155	
3360	MBh	125.0	128.7	139.3	149.5	122.1	125.7	136.1	146.1	119.2	122.7	132.8	142.6	116.3	119.7	129.6	139.1	110.5	113.8	123.1	132.1	102.3	105.4	114.1	122.4	
	S/T	0.73	0.66	0.50	0.32	0.76	0.68	0.52	0.33	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.84	0.75	0.57	0.37	
	ΔT	25	23	19	13	25	23	19	13	25	23	19	13	26	24	19	13	25	23	19	13	24	22	18	12	
4725	kW	10.41	10.60	10.88	11.18	11.09	11.29	11.61	11.93	11.69	11.91	12.25	12.60	12.22	12.45	12.81	13.19	12.67	12.92	13.29	13.69	13.06	13.31	13.70	14.12	
	HI PR	240	258	272	284	269	289	305	319	306	329	347	362	348	375	396	413	392	422	445	464	433	466	492	513	
	LO PR	97	104	113	121	103	110	120	127	107	114	124	132	112	120	131	139	118	125	137	146	122	130	142	151	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) Rating Conditions
 Design Superheat 7±2 °F; Design Subcooling 12 ±2 °F; pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — 12½ TONS (CONT.)

IDB		OUTDOOR AMBIENT TEMPERATURE																																																	
		65								75								85								95								105								115									
		AIRFLOW						59		63		67		71		59		63		67		71		59		63		67		71		59		63		67		71													
ENTERING		INDOOR		WET BULB		TEMPERATURE		59		63		67		71		59		63		67		71		59		63		67		71		59		63		67		71													
80	4725	MBh	142.0	145.1	155.0	165.7	138.7	141.7	151.4	161.9	135.4	138.3	147.8	158.0	132.1	135.0	144.2	154.1	125.5	128.2	137.0	146.4	116.2	118.8	126.9	135.7	S/T	0.88	0.82	0.67	0.5	0.93	0.87	0.71	0.5	0.96	0.90	0.73	0.5	1.00	0.94	0.76	0.6	1.00	0.94	0.77	0.6				
		ΔT	24	23	20	16	25	23	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15.2	kw	10.77	10.97	11.27	11.6	12.12	12.35	12.70	13.1	12.67	12.92	13.30	13.7	13.15	13.41	13.80	14.2	13.56	13.83	14.24	14.7				
		HI PR	252	271	286	298.6	283	304	321	335.1	322	346	365	381.1	366	394	416	434.0	412	443	468	488.3	455	490	517	539.5	LO PR	103	109	119	126.8	113	120	131	139.3	118	126	137	146.3	124	132	144	153.3	128	136	149	158.6				
		MBh	137.9	140.9	150.5	160.9	134.7	137.6	147.0	157.1	131.4	134.3	143.5	153.4	128.2	131.0	140.0	149.7	121.8	124.5	133.0	142.2	112.9	115.3	123.2	131.7	S/T	0.84	0.78	0.64	0.5	0.89	0.83	0.68	0.5	0.92	0.86	0.70	0.5	0.95	0.89	0.73	0.5	0.96	0.90	0.73	0.5	0.96	0.90	0.73	0.5
		ΔT	25	24	21	17	26	24	21	17	26	24	21	17	26	25	21	17	25	24	21	17	24	23	20	15.8	kw	10.70	10.89	11.19	11.5	12.03	12.26	12.61	13.0	12.58	12.83	13.20	13.6	13.05	13.31	13.70	14.1	13.45	13.72	14.13	14.6				
HI PR	249	268	283	295.6	280	301	318	331.7	318	343	362	377.3	363	390	412	429.7	408	439	464	483.4	451	485	512	534.1	LO PR	102	108	118	125.6	107	114	125	132.7	111	119	129	137.9	117	125	136	144.8	123	131	143	151.8	127	135	147	157.0		
3360	3360	MBh	127.2	130.0	138.9	148.5	124.3	127.0	135.7	145.0	121.3	124.0	132.5	141.6	118.4	120.9	129.2	138.1	112.4	114.9	122.8	131.2	104.2	106.4	113.7	121.6	S/T	0.81	0.76	0.62	0.5	0.86	0.80	0.65	0.5	0.88	0.83	0.67	0.5	0.92	0.86	0.70	0.5	0.93	0.87	0.71	0.5				
		ΔT	28	27	23	19	28	27	24	19	28	27	24	19	29	27	24	19	28	27	24	19	26	25	22	17.6	kw	10.48	10.67	10.96	11.3	11.77	12.00	12.34	12.7	12.31	12.54	12.91	13.3	12.76	13.01	13.39	13.8	13.15	13.41	13.81	14.2				
		HI PR	242	260	275	286.8	271	292	309	321.8	309	332	351	366.0	352	378	400	416.8	396	426	450	468.9	437	470	497	518.1	LO PR	98	105	114	121.8	104	111	121	128.7	108	115	126	133.8	114	121	132	140.5	119	127	138	147.2	123	131	143	152.3

85	4725	MBh	144.5	147.3	154.2	164.6	141.1	143.8	150.7	160.7	137.8	140.4	147.1	156.9	134.4	137.0	143.5	153.1	127.7	130.1	136.3	145.4	118.3	120.6	126.3	134.7	S/T	0.92	0.89	0.80	0.6	0.98	0.94	0.85	0.7	1.00	0.97	0.88	0.7	1.00	1.00	0.91	0.7	1.00	0.97	0.88	0.7				
		ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	25	24	21	23	23	23	19.5	kw	10.85	11.05	11.35	11.7	12.21	12.44	12.80	13.2	12.77	13.02	13.40	13.8	13.24	13.51	13.91	14.3	13.66	13.93	14.35	14.8				
		HI PR	254	274	289	301.6	286	307	324	338.4	325	349	369	384.9	370	398	420	438.4	416	448	473	493.1	460	495	522	544.9	LO PR	104	110	120	128.1	109	116	127	135.3	114	121	132	140.7	119	127	139	147.8	125	133	145	154.8	129	138	150	160.2
		MBh	140.3	143.0	149.7	159.8	137.0	139.7	146.3	156.0	133.7	136.3	142.8	152.3	130.5	133.0	139.3	148.6	124.0	126.4	132.3	141.2	114.8	117.0	122.6	130.8	S/T	0.88	0.85	0.76	0.6	0.93	0.90	0.81	0.7	0.96	0.93	0.84	0.7	1.00	0.96	0.87	0.7	1.00	0.96	0.87	0.7				
		ΔT	27	26	25	22	27	27	25	22	27	27	25	22	27	27	26	22	27	27	25	22	25	25	24	20.3	kw	10.77	10.97	11.27	11.6	12.12	12.35	12.70	13.1	12.67	12.92	13.30	13.7	13.15	13.41	13.80	14.2	13.56	13.83	14.24	14.7				
HI PR	252	271	286	298.6	283	304	321	335.1	322	346	365	381.1	366	394	416	434.0	412	443	468	488.3	455	490	517	539.5	LO PR	103	109	119	126.8	108	115	126	134.0	113	120	131	139.3	118	126	137	146.3	124	132	144	153.3	128	136	149	158.6		
3360	3360	MBh	129.5	132.0	138.2	147.5	126.5	128.9	135.0	144.0	123.4	125.8	131.8	140.6	120.4	122.8	128.6	137.2	114.4	116.6	122.1	130.3	106.0	108.0	113.1	120.7	S/T	0.85	0.82	0.74	0.6	0.90	0.87	0.78	0.6	0.93	0.89	0.81	0.7	0.96	0.93	0.84	0.7	0.97	0.94	0.84	0.7				
		ΔT	30	29	28	24	30	30	28	24	30	30	28	24	31	30	28	25	30	30	28	24	28	28	26	22.6	kw	10.55	10.74	11.03	11.3	11.86	12.08	12.42	12.8	12.40	12.64	13.00	13.4	12.85	13.11	13.49	13.9	13.25	13.51	13.91	14.3				
		HI PR	244	263	278	289.6	274	295	312	325.0	312	336	354	369.6	355	382	404	421.0	400	430	454	473.6	442	475	502	523.3	LO PR	99	106	116	123.0	105	112	122	130.0	109	116	127	135.1	115	122	133	141.9	120	128	140	148.7	124	132	144	153.8

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHRI Rating Conditions
 Design Superheat 7±2 °F; Design Subcooling 12±2 °F; pressures measured @ the suction and liquid service ports, AHRI 95 test conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

AIRFLOW DATA — 7½ TONS

STANDARD BELT DRIVE — DOWN SHOT

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	---	---	---	---	---	---	---	---	---	---	---	---	3617	704	1.07	3293	653	0.84
0.3	---	---	---	---	---	---	---	---	---	3541	749	1.15	3179	704	0.88	2757	656	0.66
0.5	---	---	---	---	---	---	3447	798	1.23	3049	754	0.94	2606	710	0.71	---	---	---
0.7	---	---	---	3400	848	1.33	2950	798	1.01	2474	754	0.75	---	---	---	---	---	---
0.9	3303	890	1.41	2871	848	1.11	2408	804	0.82	---	---	---	---	---	---	---	---	---
1.1	2838	897	1.23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HIGH-STATIC BELT DRIVE — DOWN SHOT

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3401	909	1.51
1.1	---	---	---	---	---	---	---	---	---	---	---	---	3428	965	1.71	2943	915	1.3
1.3	---	---	---	---	---	---	---	---	---	3471	1015	1.9	3012	971	1.5	2423	920	1.12
1.5	---	---	---	---	---	---	3722	1063	2.25	3041	1023	1.67	2503	976	1.31	---	---	---
1.7	---	---	---	---	---	---	3359	1075	2.04	2540	1031	1.5	---	---	---	---	---	---
1.9	---	---	---	3381	1119	2.22	2890	1080	1.78	---	---	---	---	---	---	---	---	---
2.1	---	---	---	3089	1129	2.04	---	---	---	---	---	---	---	---	---	---	---	---

STANDARD BELT DRIVE — HORIZONTAL

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	---	---	---	---	---	---	---	---	---	---	---	---	3625	701	1.08	3309	660	0.86
0.3	---	---	---	---	---	---	3815	797	1.44	3468	747	1.11	3177	703	0.88	2796	663	0.68
0.5	---	---	---	3780	841	1.52	3405	803	1.23	3053	753	0.94	2608	709	0.68	2225	665	0.53
0.7	3687	885	1.6	3327	847	1.29	2968	805	1.02	2423	758	0.73	---	---	---	---	---	---
0.9	3236	891	1.39	2850	852	1.1	2352	807	0.8	---	---	---	---	---	---	---	---	---
1.1	2713	896	1.17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HIGH-STATIC BELT DRIVE — HORIZONTAL

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3447	902	1.54
1.1	---	---	---	---	---	---	---	---	---	---	---	---	3398	956	1.65	3006	908	1.31
1.3	---	---	---	---	---	---	---	---	---	3486	1008	1.87	2960	962	1.44	---	---	---
1.5	---	---	---	---	---	---	3514	1057	2.07	2949	1019	1.62	---	---	---	---	---	---
1.7	---	---	---	3388	1103	2.18	3036	1069	1.84	---	---	---	---	---	---	---	---	---
1.9	---	---	---	2959	1114	2.0	---	---	---	---	---	---	---	---	---	---	---	---
2.1	---	---	---	2527	1124	1.86	---	---	---	---	---	---	---	---	---	---	---	---

Notes :

Assume dry coil with filter in place; CFM correction for wet coil = 3%
 Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.

AIRFLOW DATA — 8½ TONS

STANDARD BELT DRIVE — DOWN SHOT

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	---	---	---	---	---	---	---	---	---	---	---	---	3467	701	1.04	3143	650	0.81
0.3	---	---	---	---	---	---	---	---	---	3391	746	1.12	3029	701	0.85	2607	653	0.63
0.5	---	---	---	---	---	---	3297	795	1.20	2899	751	0.91	2456	707	0.68	---	---	---
0.7	---	---	---	3250	845	1.30	2800	795	0.98	---	---	---	---	---	---	---	---	---
0.9	3153	887	1.38	2721	845	1.08	---	---	---	---	---	---	---	---	---	---	---	---
1.1	2688	894	1.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HIGH-STATIC BELT-DRIVE — DOWN SHOT

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3251	906	1.48
1.1	---	---	---	---	---	---	---	---	---	---	---	---	3278	962	1.68	2793	912	1.27
1.3	---	---	---	---	---	---	---	---	---	3321	1012	1.87	2862	968	1.47	---	---	---
1.5	---	---	---	---	---	---	3572	1060	2.22	2891	1020	1.64	---	---	---	---	---	---
1.7	---	---	---	---	---	---	3209	1072	2.01	---	---	---	---	---	---	---	---	---
1.9	---	---	---	3231	1116	2.19	2740	1077	1.75	---	---	---	---	---	---	---	---	---
2.1	3256	1156	2.31	2939	1126	2.01	---	---	---	---	---	---	---	---	---	---	---	---

STANDARD BELT DRIVE — HORIZONTAL

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.1	---	---	---	---	---	---	---	---	---	---	---	---	3475	698	1.05	3159	657	0.83
0.3	---	---	---	---	---	---	3665	794	1.41	3318	744	1.08	3027	700	0.85	2646	660	0.65
0.5	---	---	---	3630	838	1.49	3255	800	1.2	2903	750	0.91	2458	706	0.65	---	---	---
0.7	3537	882	1.57	3177	844	1.26	2818	802	0.99	---	---	---	---	---	---	---	---	---
0.9	3086	888	1.36	2700	849	1.07	---	---	---	---	---	---	---	---	---	---	---	---
1.1	2563	893	1.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HIGH-STATIC BELT-DRIVE — HORIZONTAL

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3297	899	1.51
1.1	---	---	---	---	---	---	---	---	---	---	---	---	3248	953	1.62	2856	905	1.28
1.3	---	---	---	---	---	---	---	---	---	3336	1005	1.84	2810	959	1.41	---	---	---
1.5	---	---	---	---	---	---	3364	1054	2.04	2799	1016	1.59	---	---	---	---	---	---
1.7	---	---	---	3238	1100	2.15	2886	1066	1.81	---	---	---	---	---	---	---	---	---
1.9	3188	1146	2.23	2809	1111	1.97	---	---	---	---	---	---	---	---	---	---	---	---

Notes :

Assume dry coil with filter in place; CFM correction for wet coil = 3%

Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Applications that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.

AIRFLOW DATA — 10 TONS

STANDARD BELT DRIVE & TWO-SPEED BELT DRIVE AT HIGH SPEED — DOWN SHOT

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2	---	---	---	---	---	---	---	---	---	---	---	---	4629	774	1.76	4269	733	1.42
0.4	---	---	---	---	---	---	---	---	---	4539	824	1.86	4198	781	1.53	3797	735	1.21
0.6	---	---	---	---	---	---	4511	868	2.01	4103	829	1.63	3752	787	1.33	3312	745	1.03
0.8	---	---	---	4445	912	2.14	4144	873	1.81	3695	833	1.45	3180	790	1.07	---	---	---
1	4418	956	2.3	4073	917	1.92	3661	879	1.55	---	---	---	---	---	---	---	---	---
1.2	4064	967	2.09	3518	923	1.6	---	---	---	---	---	---	---	---	---	---	---	---
1.4	3555	972	1.77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HIGH-STATIC BELT DRIVE — DOWN SHOT

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.8	---	---	---	---	---	---	---	---	---	---	---	---	4681	937	2.38	4206	891	1.91
1	---	---	---	---	---	---	---	---	---	4634	985	2.57	4288	948	2.19	3721	897	1.63
1.2	---	---	---	---	---	---	4533	1020	2.63	4367	995	2.41	3845	954	1.91	---	---	---
1.4	---	---	---	4550	1064	2.83	4290	1042	2.56	3913	1006	2.13	---	---	---	---	---	---
1.6	---	---	---	4327	1087	2.73	3990	1057	2.37	---	---	---	---	---	---	---	---	---
1.8	4652	1148	3.33	4023	1105	2.58	---	---	---	---	---	---	---	---	---	---	---	---
2	4306	1162	3.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

STANDARD BELT DRIVE & TWO-SPEED BELT DRIVE AT HIGH SPEED — HORIZONTAL

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4707	724	1.62
0.4	---	---	---	---	---	---	---	---	---	---	---	---	4679	774	1.78	4235	730	1.4
0.6	---	---	---	---	---	---	---	---	---	4595	822	1.91	4223	780	1.55	3679	735	1.16
0.8	---	---	---	---	---	---	4468	862	1.96	4121	824	1.64	3596	785	1.26	---	---	---
1	---	---	---	4349	907	2.06	3990	868	1.72	3463	829	1.31	---	---	---	---	---	---
1.2	4486	962	2.35	3923	918	1.84	3267	879	1.33	---	---	---	---	---	---	---	---	---
1.4	3990	967	2.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HIGH-STATIC BELT DRIVE — HORIZONTAL

ESP, IN H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4604	886	2.15
1	---	---	---	---	---	---	---	---	---	---	---	---	4737	940	2.48	4236	890	1.93
1.2	---	---	---	---	---	---	---	---	---	4792	984	2.69	4347	946	2.19	3675	901	1.64
1.4	---	---	---	---	---	---	4431	998	2.46	4404	995	2.45	3710	956	1.82	---	---	---
1.6	---	---	---	4652	1061	2.93	4183	1028	2.42	3845	1006	2.08	---	---	---	---	---	---
1.8	---	---	---	4418	1083	2.81	3847	1050	2.22	---	---	---	---	---	---	---	---	---
2	4823	1149	3.5	4055	1105	2.6	---	---	---	---	---	---	---	---	---	---	---	---

AIRFLOW DATA — 12½ TONS

STANDARD BELT DRIVE --- DOWN SHOT

ESP (IN W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	---	---	---	---	5378	2.35	4967	1.92	4710	1.59	4512	1.33
0.4	5514	2.92	5349	2.56	4750	1.97	4583	1.71	4319	1.40	4030	1.13
0.6	5204	2.69	4919	2.27	4488	1.81	4258	1.54	---	---	---	---
0.8	4830	2.42	4649	2.09	4019	1.55	---	---	---	---	---	---
1.0	4497	2.19	4264	1.86	---	---	---	---	---	---	---	---

HIGH-STATIC BELT DRIVE --- DOWN SHOT

ESP (IN W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.8	---	---	---	---	---	---	5978	3.87	5691	3.38	5324	2.81
1.0	---	---	---	---	5947	4.16	5656	3.58	5376	3.12	4933	2.52
1.2	---	---	---	---	5708	3.93	5459	3.40	4950	2.79	4441	2.18
1.4	5776	4.64	5510	4.07	5245	3.48	4844	2.88	4525	2.45	---	---
1.6	5465	4.30	5199	3.74	4894	3.17	4404	2.54	---	---	---	---
1.8	5145	3.97	4871	3.41	4495	2.83	---	---	---	---	---	---
2.0	4805	3.63	4565	3.13	4142	2.55	---	---	---	---	---	---
2.2	4429	3.27	4233	2.85	---	---	---	---	---	---	---	---

STANDARD BELT DRIVE --- HORIZONTAL

ESP (IN W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	---	---	---	---	---	---	5570	2.27	4935	1.70	4584	1.36
0.4	5871	3.20	5639	2.77	5307	2.31	4902	1.88	4637	1.55	4178	1.19
0.6	5610	3.00	5358	2.57	5051	2.15	4603	1.72	4341	1.41	---	---
0.8	5391	2.83	5010	2.33	4799	2.00	4393	1.61	---	---	---	---
1.0	5078	2.59	4676	2.11	4448	1.79	---	---	---	---	---	---
1.2	4521	2.20	4226	1.83	---	---	---	---	---	---	---	---

HIGH-STATIC BELT DRIVE --- HORIZONTAL

ESP (IN W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.8	---	---	---	---	---	---	---	---	5858	3.51	5538	2.97
1.0	---	---	---	---	---	---	5894	3.85	5502	3.20	5282	2.78
1.2	---	---	---	---	5780	4.04	5570	3.55	5110	2.88	4869	2.47
1.4	---	---	5900	4.49	5501	3.77	5312	3.33	4793	2.64	4598	2.28
1.6	5860	4.76	5514	4.08	5257	3.54	4945	3.01	4382	2.34	---	---
1.8	5615	4.49	5315	3.88	5020	3.32	4504	2.66	---	---	---	---
2.0	5529	4.40	4906	3.49	4601	2.96	---	---	---	---	---	---
2.2	4938	3.78	4541	3.15	4222	2.65	---	---	---	---	---	---

NOTES

- Assume dry coil with filter in place; CFM correction for wet coil = 3%
- Any adjustment made to the blower should not cause the motor to draw more than the motor rated RLA. Application that exceed the above could require a larger motor. Minimum rated SCFM is 350 per ton.

HEAT KIT ELECTRICAL DATA — 7½ TONS

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL kW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH090***3B***	40	50		
EHK3-16	74 / 85	80 / 90	15	3000-3375 CFM
EHK3-30	113 / 130	120 / 150	30	3000-3375 CFM
EHK3-45	147 / 169	150 / 175	43	3000-3375 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL kW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH090***4B***	19	25		
EHK4-16	42	45	15	3000-3375 CFM
EHK4-30	64	70	30	3000-3375 CFM
EHK4-45	84	90	43	3000-3375 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL kW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH090***7B***	14	15		
EHK4-16	32	35	15	---
EHK4-30	51	60	30	---
EHK4-45	68	70	43	---

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection device

kW CORRECTION FACTOR

kW CORRECTION FACTOR FOR 1- & 3-PHASE UNITS					
SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1	0.93	0.82	0.78	0.76

kW CORRECTION FACTOR FOR 480V UNITS			
SUPPLY VOLTAGE	460	440	430
CORRECTION FACTOR	0.92	0.84	0.8

For other voltage, use $\text{voltage}^2 / 480^2$

kW CORRECTION FACTOR FOR 575V UNITS			
SUPPLY VOLTAGE	560	550	540
CORRECTION FACTOR	0.95	0.91	0.88

Multiply rated kW by correction factor to get actual kW.

MINIMUM AIRFLOW FOR ELECTRIC HEAT

HEATER SIZE (kW)	MINIMUM CFM
15	3,000
30	3,000
43	3,000

HEAT KIT ELECTRICAL DATA — 8½ TONS

MODEL AND HEAT KIT USAGE	MCA ¹ AT 240V	MOP ² (AMPS) AT 240V	ACTUAL KW AT 240V	RECOMMENDED AIRFLOW RANGE (DOWNSHOT)	RECOMMENDED AIRFLOW RANGE (HORIZONTAL)
CPH102***3B***	43	50			
EHK3-16	88	90	15	3400 - 3825 CFM	3400 - 3825 CFM
EHK3-30	133	150	35	3400 - 3825 CFM	3400 - 3825 CFM
EHK3-45	173	175	43	3400 - 3825 CFM	3400 - 3825 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ AT 480V	MOP ² (AMPS) AT 480V	ACTUAL KW AT 480V	RECOMMENDED AIRFLOW RANGE (DOWNSHOT)	RECOMMENDED AIRFLOW RANGE (HORIZONTAL)
CPH102***4B***	20	25			
EHK4-16	42	45	15	3400 - 3825 CFM	3400 - 3825 CFM
EHK4-30	65	70	30	3400 - 3825 CFM	3400 - 3825 CFM
EHK4-45	84	90	43	3400 - 3825 CFM	3400 - 3825 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ AT 575V	MOP ² (AMPS) AT 575V	ACTUAL KW AT 575V	RECOMMENDED AIRFLOW RANGE (DOWNSHOT)	RECOMMENDED AIRFLOW RANGE (HORIZONTAL)
CPH102***7B***	17	20			
EHK7-16	36	40	15	3400 - 3825 CFM	3400 - 3825 CFM
EHK7-30	55	60	30	3400 - 3825 CFM	3400 - 3825 CFM
EHK7-45	71	80	43	3400 - 3825 CFM	3400 - 3825 CFM

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection device

^ - EHK Heater Kits above require a three-phase power supply

kW CORRECTION FACTOR

kW CORRECTION FACTOR FOR 1- & 3-PHASE UNITS					
SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1	0.93	0.82	0.78	0.76

kW CORRECTION FACTOR FOR 480V UNITS			
SUPPLY VOLTAGE	460	440	430
CORRECTION FACTOR	0.92	0.84	0.8

For other voltage, use $\text{voltage}^2 / 480^2$

kW CORRECTION FACTOR FOR 575V UNITS			
SUPPLY VOLTAGE	560	550	540
CORRECTION FACTOR	0.95	0.91	0.88

Multiply rated kW by correction factor to get actual kW.

MINIMUM AIRFLOW FOR ELECTRIC HEAT

HEATER SIZE (kW)	MIN. CFM DOWN-SHOT	MIN. CFM HORIZONTAL
15	3,400	3,400
30	3,400	3,400
43	3,400	3,400

HEAT KIT ELECTRICAL DATA — 10 TONS

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL kW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH120***3B/V***	49	60		
EHK3-16	81 / 94	90 / 100	15	3500 - 4500 CFM
EHK3-30	122 / 139	125 / 150	35	3500 - 4500 CFM
EHK3-45	154 / 178	175 / 200	43	4000 - 4500 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ AT 480V	MOP ² (AMPS) AT 480V	ACTUAL kW AT 480V	RECOMMENDED AIRFLOW RANGE
CPH120***4B/V***	24	30		
EHK4-16	46	50	15	3500 - 4500 CFM
EHK4-30	69	70	30	3500 - 4500 CFM
EHK4-45	89	90	43	4000 - 4500 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ AT 575V	MOP ² (AMPS) AT 575V	ACTUAL kW AT 575V	RECOMMENDED AIRFLOW RANGE
CPH0120***7B/V***	17	20		
EHK7-16	36	40	15	3500 - 4500 CFM
EHK7-30	55	60	30	3500 - 4500 CFM
EHK7-45	71	80	43	4000 - 4500 CFM

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection device

kW CORRECTION FACTOR

kW CORRECTION FACTOR FOR 1- & 3-PHASE UNITS					
SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1	0.93	0.82	0.78	0.76

kW CORRECTION FACTOR FOR 480V UNITS			
SUPPLY VOLTAGE	460	440	430
CORRECTION FACTOR	0.92	0.84	0.8

For other voltage, use $\text{voltage}^2 / 480^2$

kW CORRECTION FACTOR FOR 575V UNITS			
SUPPLY VOLTAGE	560	550	540
CORRECTION FACTOR	0.95	0.91	0.88

Multiply rated kW by correction factor to get actual kW.

MINIMUM AIRFLOW FOR ELECTRIC HEAT

HEATER SIZE (kW)	MIN. CFM DOWN-SHOT	MIN. CFM HORIZONTAL
15	4,000	4,000
30	4,000	4,000
43	4,000	4,000

HEAT KIT ELECTRICAL DATA — 12½ TONS

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL KW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH150***3B***	65	80		
EHK3-16	110	110	15	4000 - 5600
EHK3-30	155	175	30	4300 - 5600
EHK3-45	194	200	43	4500 - 5600

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL KW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH150***4B***	31	40		
EHK4-16	54	60	15	4000 - 5600
EHK4-30	76	80	30	4300 - 5600
EHK4-45	96	100	43	4500 - 5600

MODEL AND HEAT KIT USAGE	MCA ¹ AT 208 / 240V	MOP ² (AMPS) AT 208 / 240V	ACTUAL KW AT 240V	RECOMMENDED AIRFLOW RANGE
CPH150***7B***	23	30		
EHK7-16	42	45	15	4000 - 5600
EHK7-30	61	70	30	4300 - 5600
EHK7-45	77	80	43	4500 - 5600

¹ Minimum Circuit Ampacity (standard drive)

² Maximum Overcurrent Protection device (standard drive)

KW CORRECTION FACTORS

KW CORRECTION FACTOR FOR 1- & 3-PHASE UNITS					
SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1	0.93	0.82	0.78	0.76

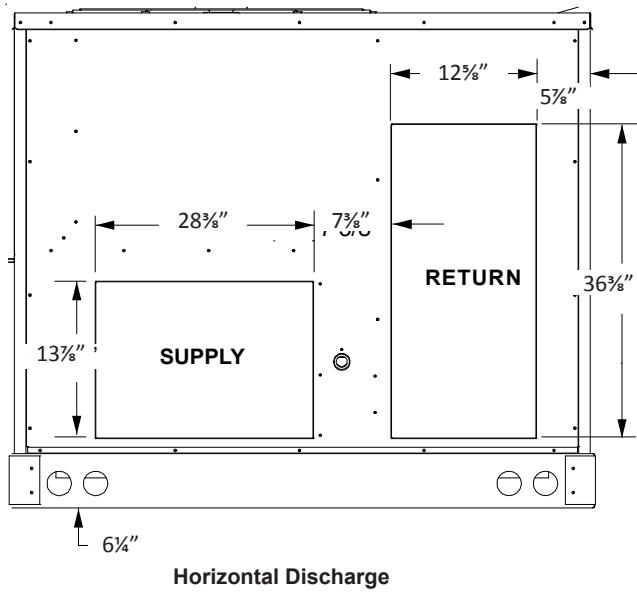
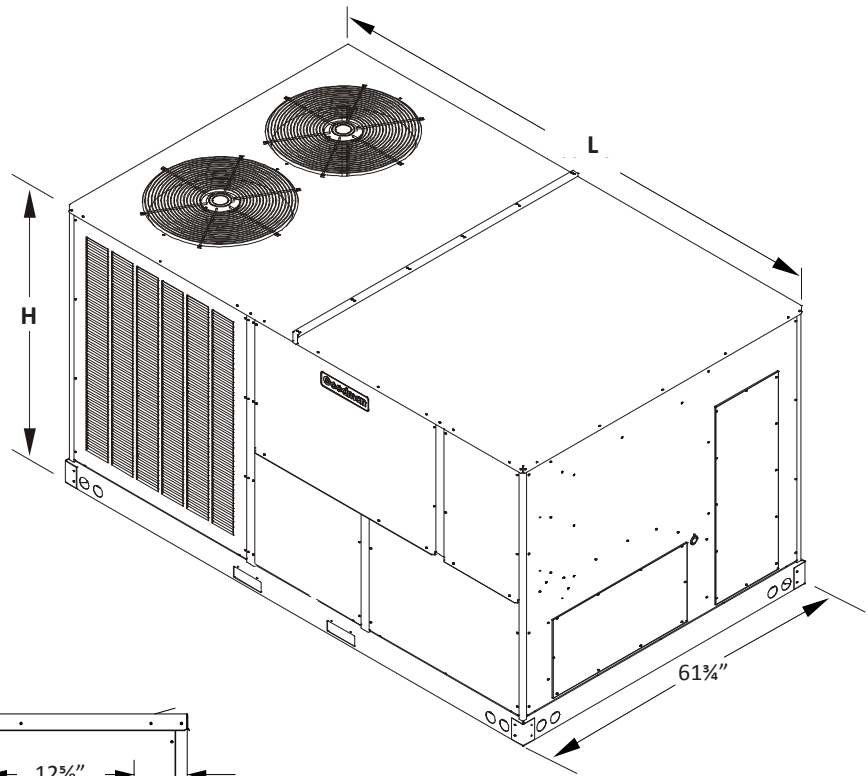
KW CORRECTION FACTOR FOR 480V UNITS			
SUPPLY VOLTAGE	460	440	430
CORRECTION FACTOR	0.92	0.84	0.8

For other voltage, use $\text{voltage}^2 / 480^2$

KW CORRECTION FACTOR FOR 575V UNITS			
SUPPLY VOLTAGE	560	550	540
CORRECTION FACTOR	0.95	0.91	0.88

Multiply rated kW by correction factor to get actual kW.

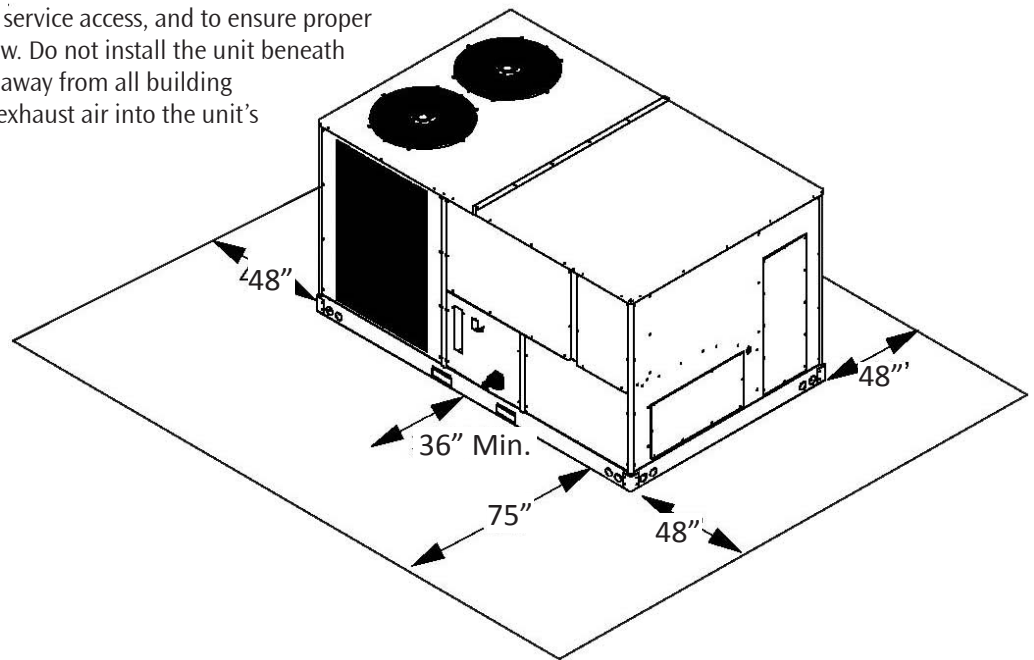
DIMENSIONS



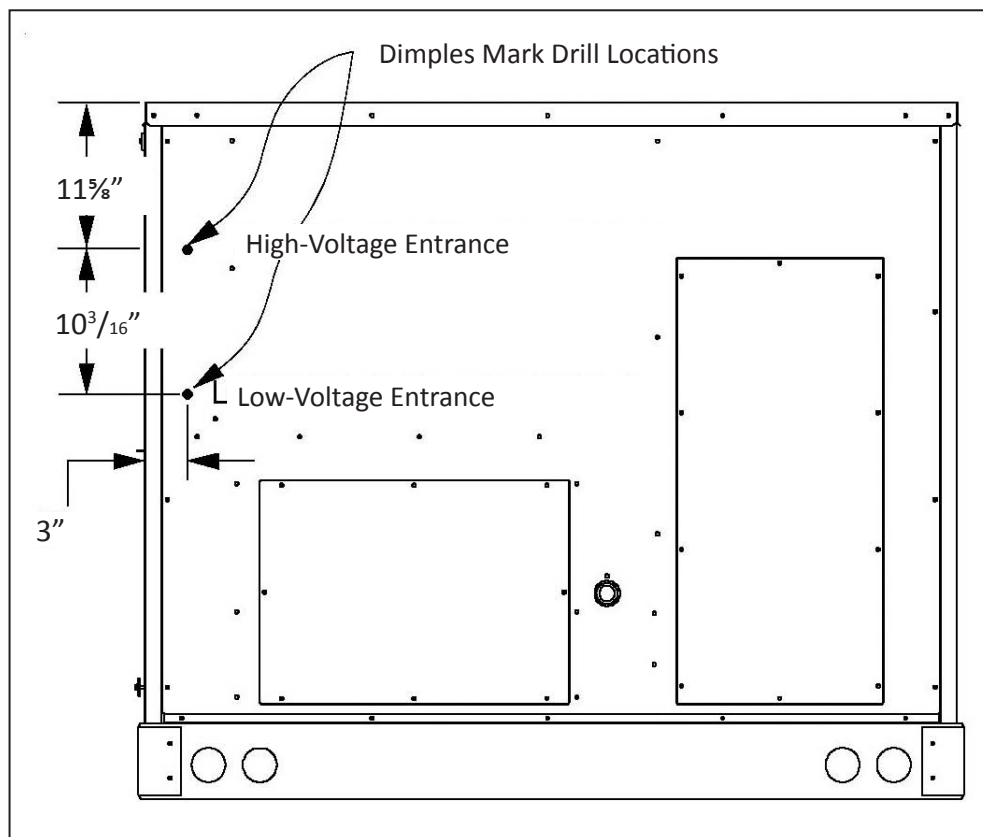
MODEL SIZE	DIMENSIONS	
	H	L
7½ to 10 Tons	52 7/8"	99 1/8"
12½ Tons	58 7/8"	99 1/8"

UNIT CLEARANCES

Maintain an adequate clearance around the unit for safety, service, maintenance, and proper unit operation. Leave a total clearance of 75" on the main control panel side of the unit for possible removal of fan shaft, coil, electric heat, and gas furnace. Leave a clearance of 48" on all other sides of the unit for possible compressor removal or service access, and to ensure proper ventilation and condenser airflow. Do not install the unit beneath any obstruction. Install the unit away from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh-air intake.



ELECTRICAL ENTRANCE LOCATIONS



ROOF CURB INSTALLATION — RIGGING

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

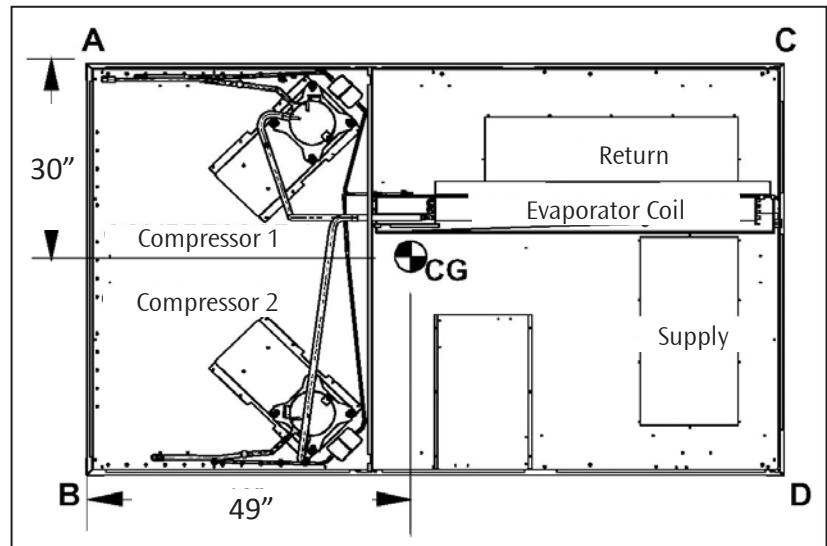
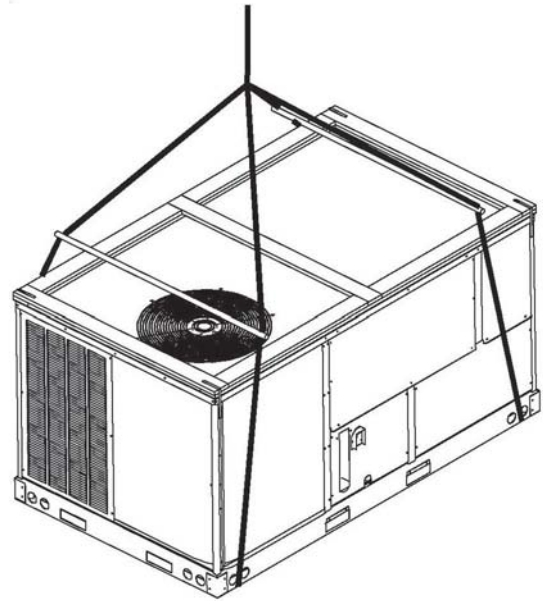
- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60”.
- Two spreader bars must span over the unit to prevent damage to the 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 fork lift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

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

Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

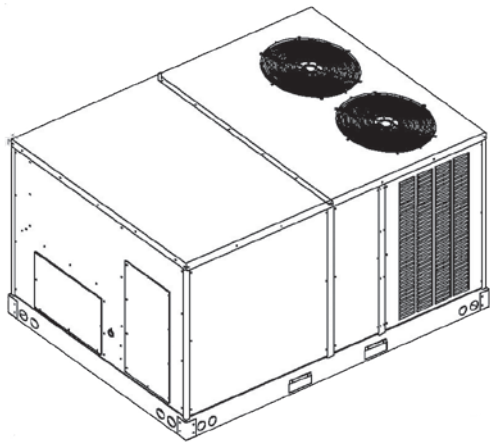


CORNER & CENTER-OF-GRAVITY LOCATIONS

UNIT WEIGHTS	7½-TON WEIGHTS (LBS)	8½-TON WEIGHTS (LBS)	10-TON WEIGHTS (LBS)	12½-TON WEIGHTS (LBS)
Weight A	285	345	345	435
Weight B	285	325	325	345
Weight C	285	320	320	300
Weight D	285	300	300	240
Shipping Weight	1175	1310	1310	1350
Operating Weight	1135	1285	1285	1325

Note: These weights are calculated without accessories installed.

ROOF CURB INSTALLATION (CONT.)



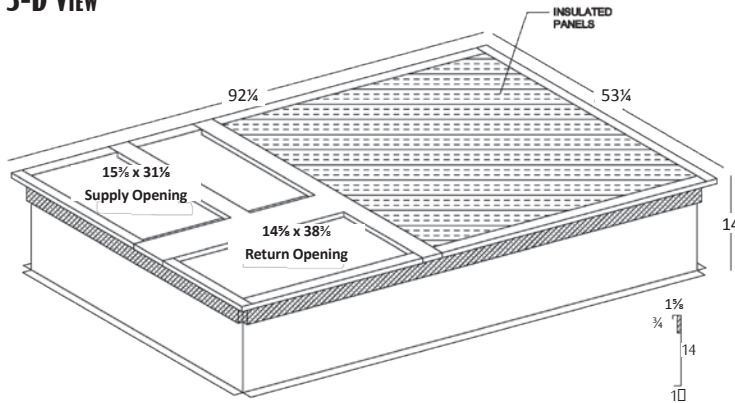
Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory package.

- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.

3-D VIEW

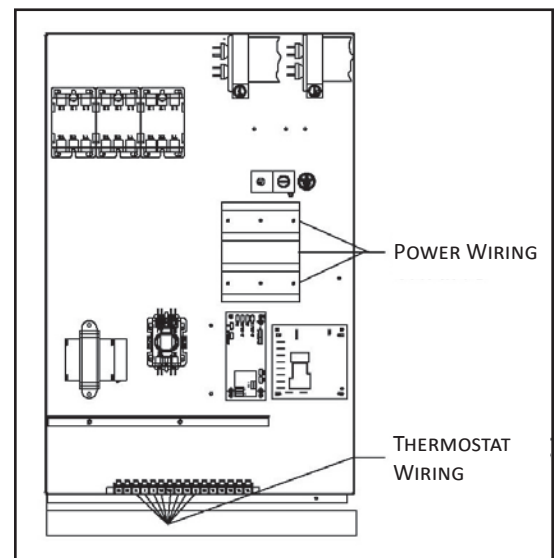
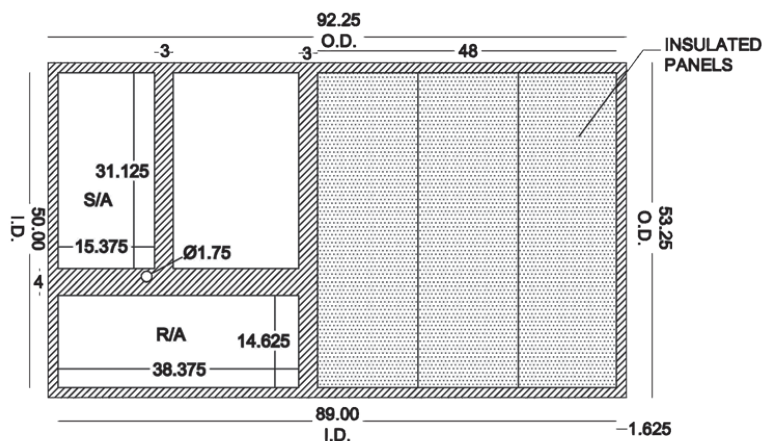


- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

Note: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

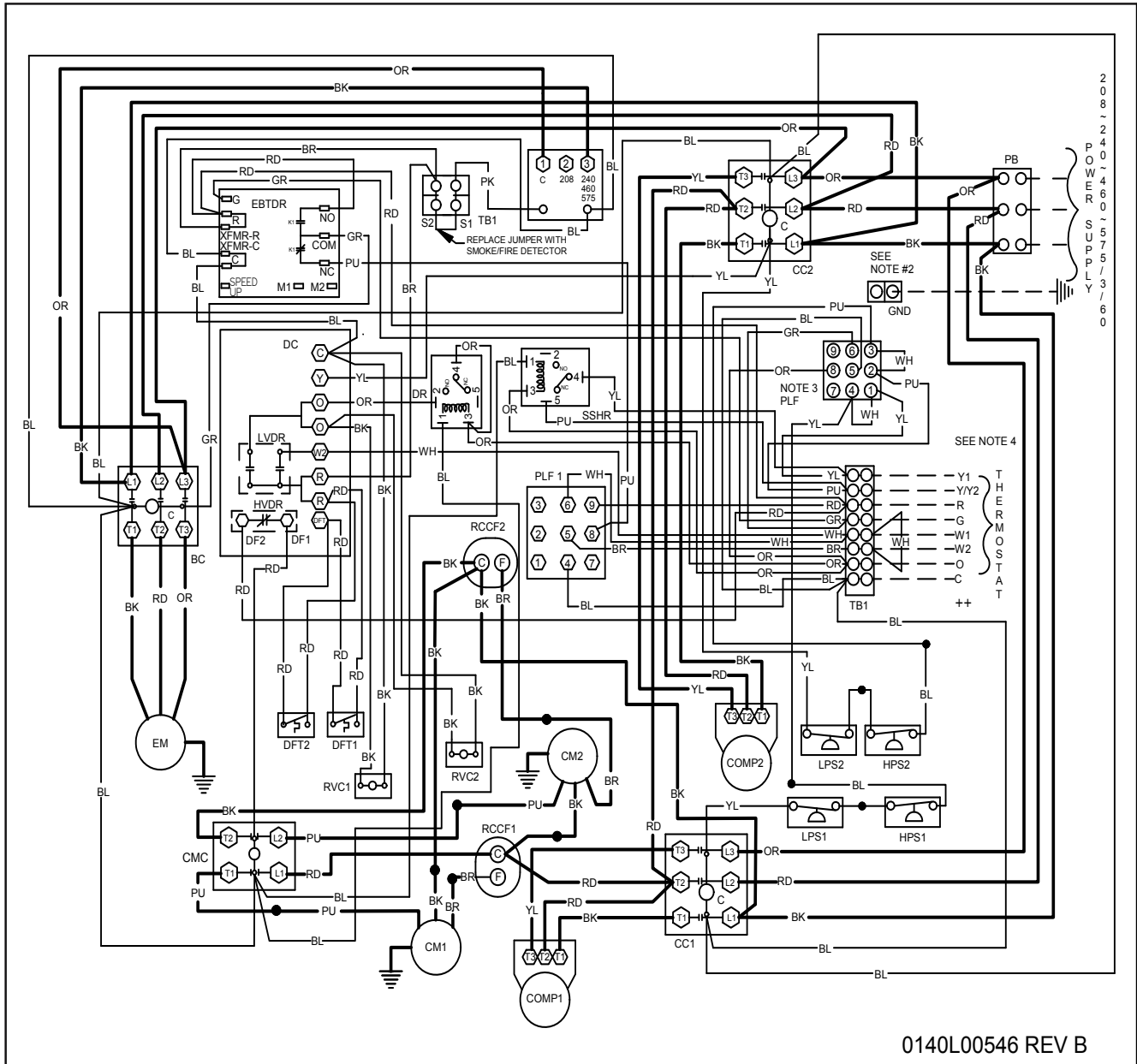
See the manual shipped with the roof curb for assembly and installation instructions.

TOP VIEW





POWER AND LOW-VOLTAGE BLOCK LOCATIONS

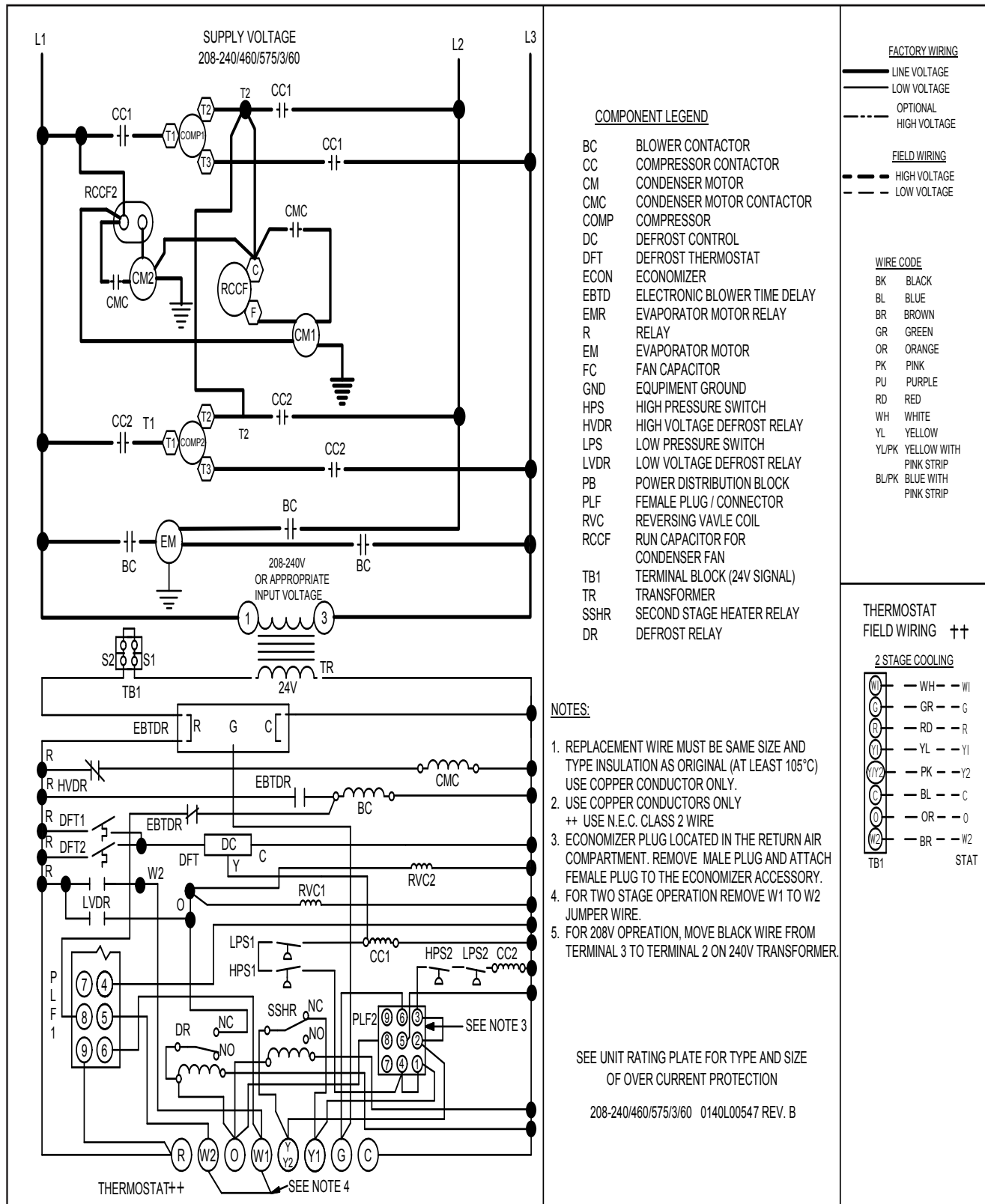
WIRING DIAGRAM — CPH090-120***3B/ 4B/ 7B***



Wiring is subject to change. Always refer to the wiring diagram or 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.	
--	---	---

WIRING DIAGRAM — CPH90-120***3B/ 4B/ 7B*** (CONT.)



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

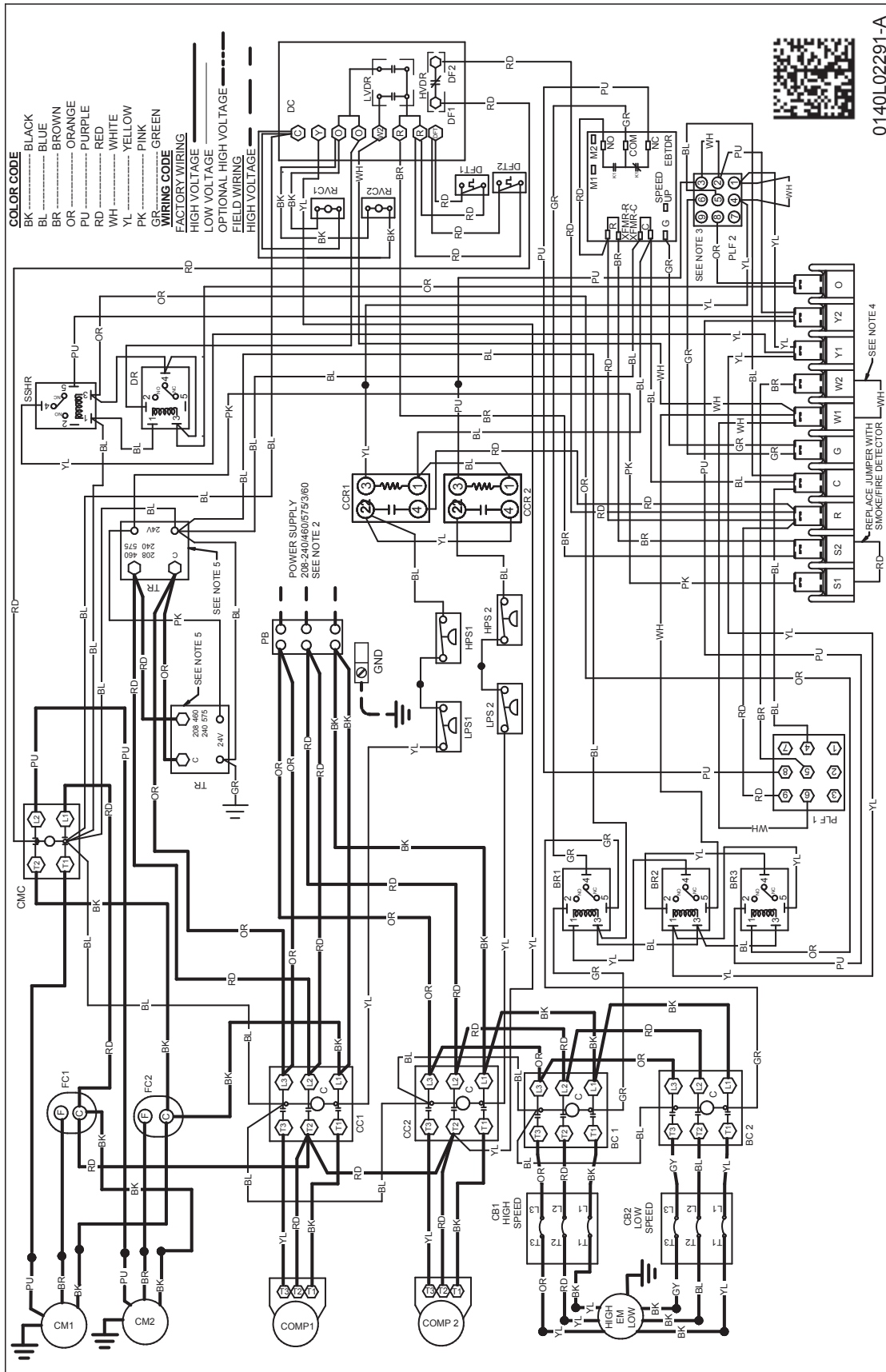


WARNING

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.



WIRING DIAGRAM — CPH120 V MODELS



0140L02291-A

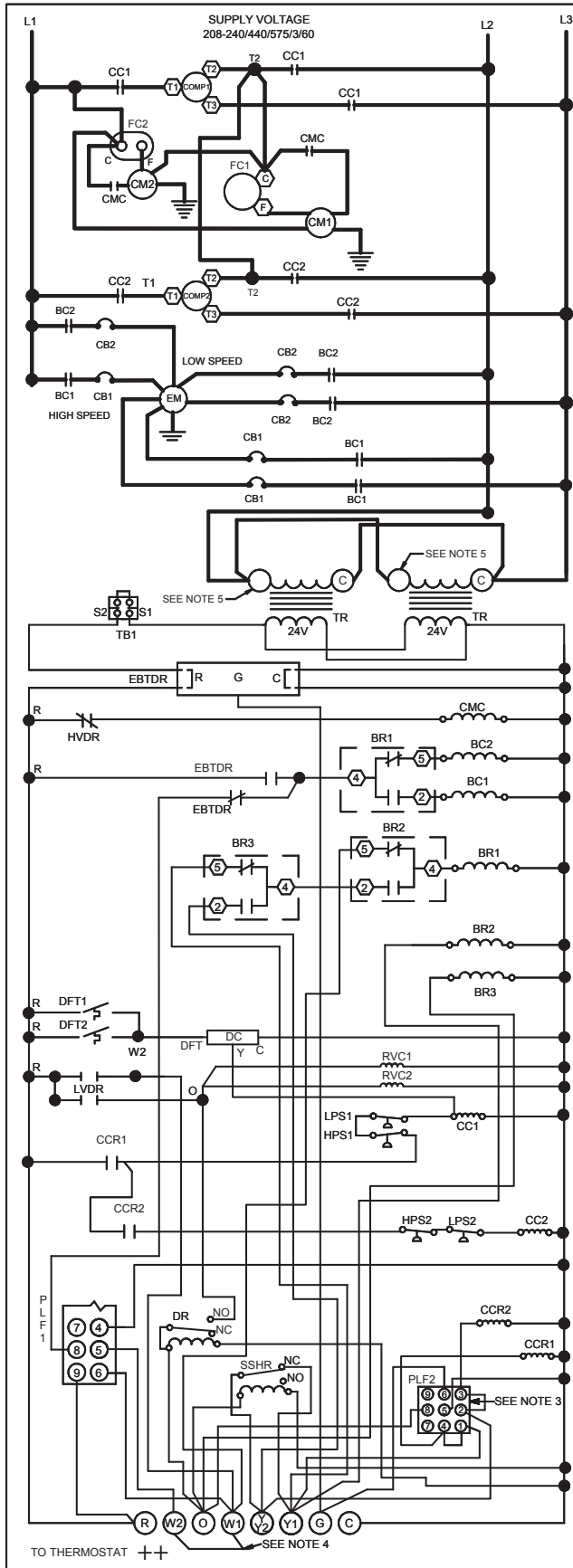
WARNING

⚡

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 or the unit for the most up-to-date wiring.

WIRING DIAGRAM — CPH120 V MODLES (CONT.)



COMPONENT LEGEND

BC	BLOWER CONTACTOR
BR	BLOWER RELAY
CB	CIRCUIT BREAKER
CCR	COMPRESSOR CONTACTOR RELAY
CC	COMPRESSOR CONTACTOR
CM	CONDENSER MOTOR
CMC	CONDENSER MOTOR CONTACTOR
COMP	COMPRESSOR
DC	DEFROST CONTROL
DFT	DEFROST THERMOSTAT
ECON	ECONOMIZER
EBTD	ELECTRONIC BLOWER TIME DELAY
EMR	EVAPORATOR MOTOR RELAY
R	RELAY
EM	EVAPORATOR MOTOR
FC	FAN CAPACITOR
GND	EQUIPMENT GROUND
HPS	HIGH PRESSURE SWITCH
HVDR	HIGH VOLTAGE DEFROST RELAY
LPS	LOW PRESSURE SWITCH
LVDR	LOW VOLTAGE DEFROST RELAY
LVJB	LOW VOLTAGE JUNCTION BOX
PB	POWER DISTRIBUTION BLOCK
PLF	FEMALE PLUG / CONNECTOR
RVC	REVERSING VALVE COIL
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER
SSHR	SECOND STAGE HEATER RELAY

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
YL/PK	YELLOW WITH PINK STRIP
BL/PK	BLUE WITH PINK STRIP

NOTES:

- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
- USE COPPER CONDUCTORS ONLY ++ USE N.E.C. CLASS 2 WIRE
- ECONOMIZER PLUG LOCATED IN THE RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO THE ECONOMIZER ACCESSORY.
- FOR TWO STAGE OPERATION REMOVE W1 TO W2 JUMPER WIRE.
- MOVE WIRE(S) TO APPROPRIATE INPUT VOLTAGE TERMINAL ON TRANSFORMER.

THERMOSTAT FIELD WIRING ++

2 STAGE COOLING

W1	—WH	—W1
G	—GR	—G
R	—RD	—R
Y1	—YL	—Y1
Y2	—PK	—Y2
C	—BL	—C
O	—OR	—O
W2	—BR	—W2
TB1		STAT

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



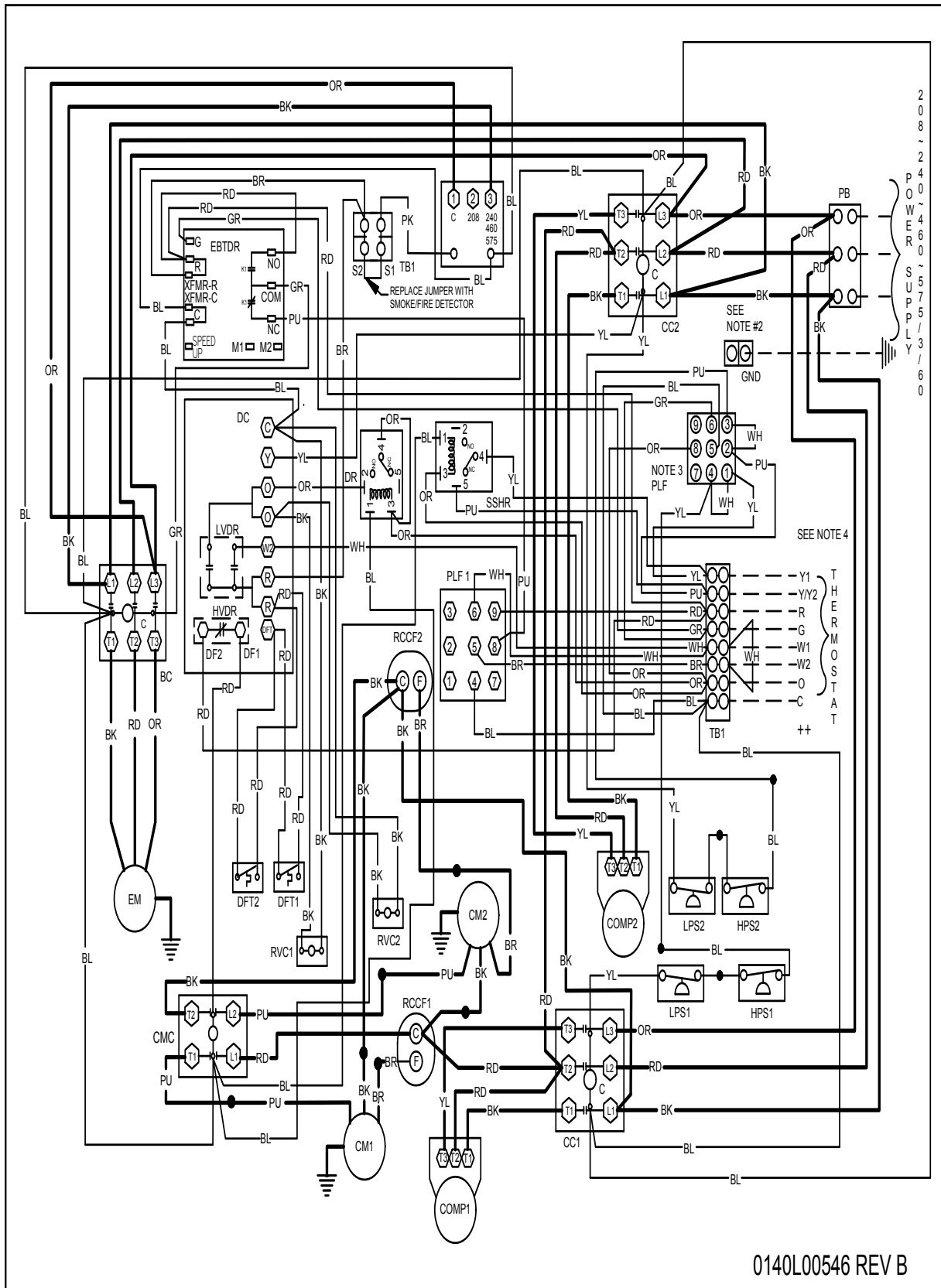
208-240/460/575/3/60 0140L02292-A

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 or the unit for the most up-to-date wiring.

WIRING DIAGRAM — CPH150***3B/ 4B/ 7B***



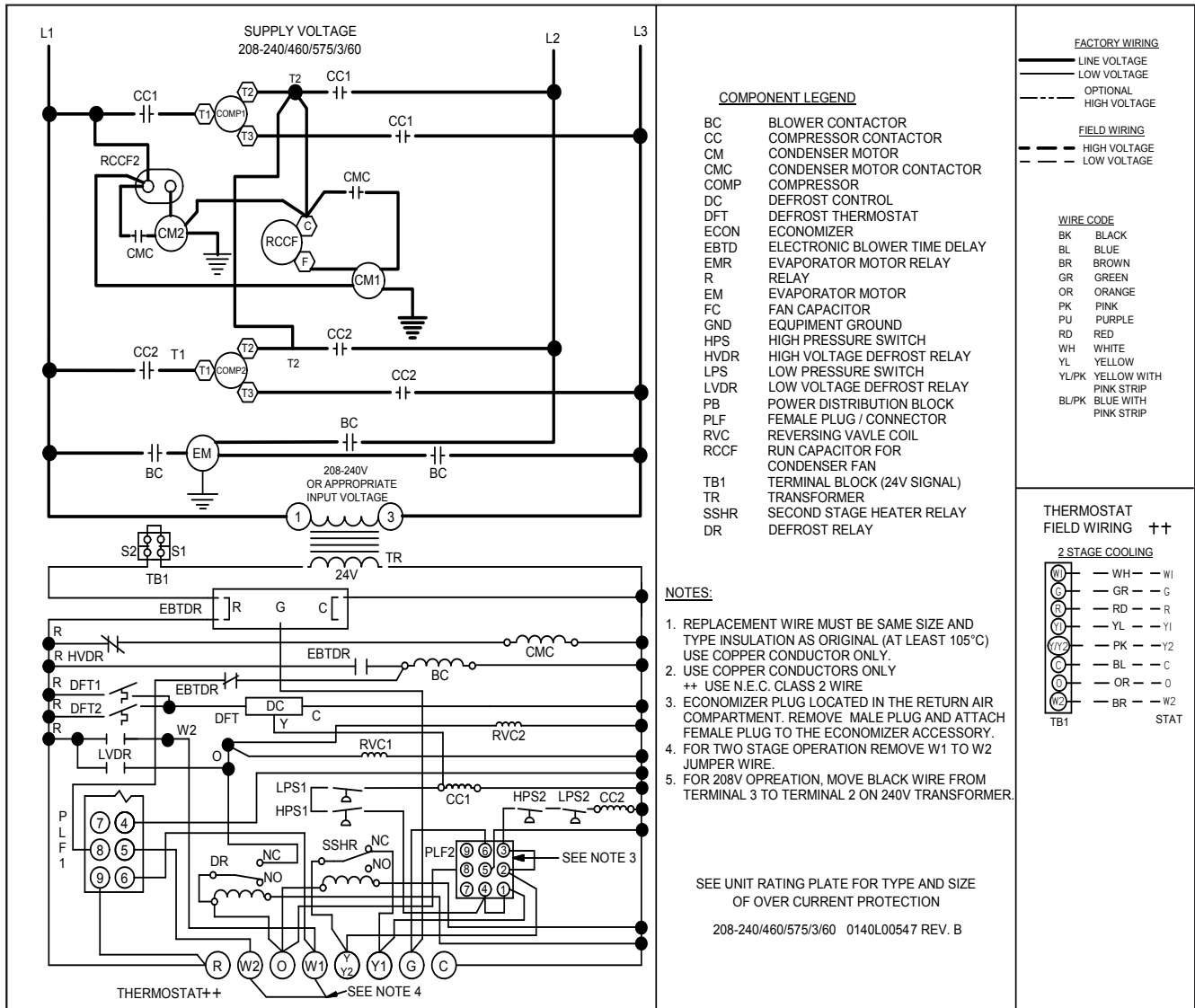
High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING



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

WIRING DIAGRAM — CPH150***3B/ 4B/ 7B*** (CONT.)



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



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.



ACCESSORIES

FIELD ACCESSORY ITEM #	DESCRIPTION	FITS MODEL SIZES	FIELD- INSTALLED	FACTORY- INSTALLED
14CURB90150	14" Roof Curb	7½-12½ tons	✓	
25FD90150	25% Manual Fresh Air Damper	7½-12½ tons	✓	
25MFD90150	25% Motorized Fresh Air Damper	7½-12½ tons	✓	
DNBBS90150	Burglar Bar Sleeves: includes Supply & Return	7½-12½ tons	✓	
CDK120	Concentric Duct Kit	10 tons	✓	
CDK150	Concentric Duct Kit	12½ tons	✓	
CDK90102	Concentric Duct Kit	7½-8½ tons	✓	
HailGD02	Condenser Coil Hail Guard	7½-10 tons	✓	
HailGD05	Condenser Coil Hail Guard	12½ tons	✓	
	Convenience Outlet: Powered	All Models		✓
	Convenience Outlet: Non Powered	All Models		✓
	Disconnect Switch (non-fused)	All Models		✓
DNECONHP90120	Downflow Economizer	7½-10 tons	✓	✓
DNECONHP150	Downflow Economizer	12½ tons	✓	✓
DNSQRRND90	Downflow Square-to-Round Adapter 20" Round	7½ tons	✓	
	Electric Heat Kits	All Models	✓	✓
HSKT090 ¹	High-Static Kit (230/460v)	7½-8½ tons	✓	
HSKT120 ¹	High-Static Kit (230/460v)	10 tons	✓	
HSKT150 ¹	High-Static Kit (230/460v)	12½ tons	✓	
BRD3672	Horizontal Barometric Relief Damper (two required)	7½-12½ tons	✓	
HZECONHP90150	Horizontal Economizer	7½-12½ tons	✓	
GHRC-1	Hurricane Restraint Clip	All Models	✓	
LAKT03	Low-Ambient Kit for units with serial numbers 0909 and above	7½ - 12½ tons	✓	✓
LAKT02	Low-Ambient Kit for units with serial number below 0909	7½ - 12½ tons	✓	✓
PE901502	Power Exhaust 208/230 Volt	7½-12½ tons	✓	
PE901504	Power Exhaust 460 Volt	7½-12½ tons	✓	
	Smoke Detector	All Models		✓
	Stainless Steel Heat Exchanger (Type 409)	All Models		✓

¹ HSKT High-Static Kits are for use with standard single-speed belt-drive units only.



NOTES

NOTES