



Air Conditioning & Heating

CPH COMMERCIAL

3- TO 6-TON PACKAGED HEAT PUMP

13 SEER / UP TO 11.3 EER & 7.7 HSPF

COOLING CAPACITY: 35,000 — 70,000 BTU/H

HEATING CAPACITY: 34,600 — 70,000 BTU/H



Standard Features

- R-410A chlorine-free refrigerant
- High-efficiency scroll compressor
- Copper tube / aluminum fin coils
- High- and low-pressure switches
- Refrigerant accumulator
- Contactor with lugs
- High-capacity, steel-cased filter drier
- Heater kits with single-point entry
- 24-volt terminal strip
- Convertible
- Easy to service
- Built-in filter rack with standard 2" filters
- Bottom utility entry
- AHRI Certified; ETL Listed

Cabinet Features

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

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

NOMENCLATURE

	C	P	H	060	020	3	B	*	*	*	A	*	
	1	2	3	4,5,6	7,8,9	10	11	12	13	14	15	16	
												Revision Levels	
												Major & Minor	
Brand												Factory-Installed Options	
C Commercial												X	No Options
Configuration												A	Non-powered convenience outlet
P Packaged Unit												B	Powered convenience outlet
Application												C	Low-ambient kit
C Cooling												D	Return air smoke detector
G Gas Heat												E	Supply air smoke detector
H Heat Pump												F	Non-powered convenience outlet; Low-ambient kit
Nominal Gross Cooling Capacity												G	Non-powered convenience outlet; Return air smoke detector
036 3 Tons 102 8½ Tons												H	Non-powered convenience outlet; Supply air smoke detector
048 4 Tons 120 10 Tons												J	Non-powered convenience outlet; Return & Supply air smoke detectors
060 5 Tons 150 12½ tons												K	Non-powered convenience outlet; Low-ambient kit; Supply air smoke detector
072 6 Tons 180 & 181 15 Tons												L	Non-powered convenience outlet; Low-ambient kit
090 7½ Tons 240 20 Tons												M	Return & Supply air smoke detectors
Nominal Heating Capacity												N	Powered convenience outlet; Low-ambient kit
CPC												O	Powered convenience outlet; Return & Supply air smoke detectors
CPC/CPH (Factory-Installed Electric Heat)												P	Powered convenience outlet; Supply air smoke detector
045 45,000 BTU/h XXX No Heat												Q	Powered convenience outlet; Low-ambient kit; Return air smoke detector
090 90,000 BTU/h 010 10 kW 030 30 kW												R	Powered convenience outlet; Low-ambient kit; Supply air smoke detector
115 115,000 BTU/h 015 15 kW 031 30 kW												T	Powered convenience outlet; Low-ambient kit; Return & Supply air smoke detectors
140 140,000 BTU/h 016 15 kW 045 45 kW												U	Non-powered convenience outlet; Low-ambient kit; Return air smoke detector
210 210,000 BTU/h 018 18 kW 046 45 kW												V	Low-ambient kit; Return air smoke detector
350 350,000 BTU/h 020 20 kW 060 60 kW												W	Low-ambient kit; Supply air smoke detector
400 400,000 BTU/h 025 25 kW												Y	Low-ambient kit; Return & Supply air smoke detectors
See product specifications for heat size(s) available for each capacity.												Z	Return & Supply air smoke detectors
Voltage												Factory-Installed Options	
1 208-230/1/60 4 460/3/60												X	Standard Aluminized Heat Exchanger
3 208-230/3/60 7 575/3/60												S	Stainless-Steel Heat Exchanger
Supply Fan/Drive Type/Motor													
B Belt Drive													
D Direct Drive													
Factory-Installed Options													
X No Options													
A Downflow Economizer													
H Disconnect Switch (non-fused)													
J Downflow Economizer; Disconnect Switch (non-fused)													
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. 													

PRODUCT SPECIFICATIONS — 3 TONS

	CPH036 ***1D***B*	CPH036 ***3D***B*	CPH036 ***3B***B*	CPH036 ***4B***B*	CPH036 ***7B***B*
COOLING CAPACITY					
Total BTU/h	35,000	35,000	35,000	35,000	35,000
Sensible BTU/h	25,460	25,460	25,460	25,460	25,460
SEER / EER	13 / 11	13 / 11	13 / 11	13 / 11	13 / 11
Decibels	78	78	78	78	78
AHRI Reference #s	4385108	4385109	4385109	4385110	4397610
HEATING CAPACITY					
BTU/h / COP (47° F)	34,600 / 3.5	34,600 / 3.5	34,600 / 3.5	34,600 / 3.5	34,600 / 3.62
BTU/h / COP (17° F)	19,000 / 2.2	19,000 / 2.2	19,000 / 2.2	19,000 / 2.2	19,000 / 2.2
HSPF	7.7	7.7	7.7	7.7	7.7
EVAPORATOR MOTOR / COIL					
Motor Type	Direct Drive	Direct Drive	Belt Drive	Belt Drive	Belt Drive
# of Wheels (D x W)	1 (10" x 9")	1 (10" x 9")	1 (11" x 10")	1 (11" x 10")	1 (11" x 10")
Indoor Nominal CFM	1,200	1,200	1,200	1,200	1,200
Motor Speed Tap (Cooling)	Low Speed	Low Speed	---	---	---
Indoor Motor FLA (Cooling)	2.50	2.50	3.8	1.9	2.3
Horsepower - RPM	½ - 890	½ - 890	1.0 - 1725	1.0 - 1725	1.5 - 1725
Piston Size (Cooling)	0.068	0.068	0.068	0.068	0.068
Filter Size (Qty)	(1) 24" x 24" x 2"	(1) 24" x 24" x 2"	(1) 24" x 24" x 2"	(1) 24" x 24" x 2"	(1) 24" x 24" x 2"
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	105	105	105	105	135
Evaporator Coil Face Area (ft²)	5.4	5.4	5.4	5.4	5.4
Rows Deep / Fins per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
BELT DRIVE EVAP FAN DATA					
# of Wheels (D x W)	1 (10" x 9")	1 (10" x 9")	1 (11" x 10")	1 (11" x 10")	1 (11" x 10")
Motor Sheave	---	---	1VL40 x ¾"	1VL40 x ¾"	1VL40 x ¾"
Blower Sheave / Belt	---	---	AK69 x 1 / AX52	AK69 x 1 / AX52	AK69 x 1 / AX52
CONDENSER FAN / COIL					
Quantity of Condenser Fan Motors	1	1	1	1	1
Horsepower - RPM	¼ / 1,090	¼ / 1,090	¼ / 1,090	¼ - 890	¼ - 1,075
Fan Diameter / # Fan Blades	22 / 4	22 / 4	22 / 4	22 / 4	22 / 4
Outdoor Nominal CFM	3,800	3,800	3,800	3,800	3,800
Face Area (ft²)	17.0	17.0	17.0	17.0	13.0
Rows Deep / Fins per Inch	1 / 24	1 / 24	1 / 24	1 / 24	2 / 16
Piston Size (Heating)	0.055	0.055	0.055	0.055	0.053
COMPRESSOR					
Quantity / Stage / Type	1 / Single / Scroll	1 / Single / Scroll	1 / Single / Scroll	1 / Single / Scroll	1 / Single / Scroll
Compressor RLA / LRA	16.7 / 79.0	10.5 / 73.0	10.5 / 73.0	5.8 / 38.0	3.8 / 36.5
ELECTRICAL DATA					
Voltage - Phase - Frequency	208/230-1-60	208/230-3-60	208/230-3-60	460-3-60	575-3-60
Indoor Blower HP / FLA	½ / 2.5	½ / 2.5	1.0 / 3.8	1.0 / 1.9	1.5 / 2.3
Outdoor Fan HP / FLA	¼ / 1.4	¼ / 1.4	¼ / 1.4	¼ / 0.8	¼ / 0.6
Total Unit Amps	20.57	14.35	15.65	8.47	6.68
Min. Circuit Ampacity ¹	25	17	18	10	8
Max. Overcurrent Protection (amps) ²	40	25	25	15	10
Power Supply Conduit Hole	1.125"	1.125"	1.125"	1.125"	1.125"
Low Voltage Conduit Hole	½"	½"	½"	½"	½"
OPERATING WEIGHT (LBS)					
	580	580	580	580	580
SHIP WEIGHT (LBS)					
	605	605	605	605	605

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 — 4 TONS

	CPH048 ***1D***B*	CPH048 ***3D***B*	CPH048 ***3B***B*	CPH048 ***4B***B*	CPH048 ***7B***B*
COOLING CAPACITY					
Total BTU/h	46,000	46,000	46,000	46,000	46,000
Sensible BTU/h	34,500	34,500	34,500	34,500	34,500
SEER / EER	13 / 11.3	13 / 11.3	13 / 11.3	13 / 11.3	13 / 11.3
Decibels	78	78	78	78	78
AHRI Reference #s	4385111	4385112	4385112	4385113	4397611
HEATING CAPACITY					
BTU/h / COP (47° F)	45,000 / 3.5	45,000 / 3.5	45,000 / 3.5	45,000 / 3.5	45,000 / 3.5
BTU/h / COP (17° F)	24,800 / 2.2	24,800 / 2.2	24,800 / 2.2	24,800 / 2.2	24,800 / 2.2
HSPF	7.7	7.7	7.7	7.7	7.7
EVAPORATOR MOTOR / COIL					
Motor Type	Direct Drive	Direct Drive	Belt Drive	Belt Drive	Belt Drive
Indoor Nominal CFM	1,600	1,600	1,600	1,600	1,600
Motor Speed Tap (Cooling)	Medium	Medium	---	---	---
Indoor Motor FLA (Cooling)	2.87	2.87	3.8	1.9	2.3
Horsepower - RPM	½ - 1,000	½ - 1,000	1.0 - 1,725	1.0 - 1,725	1.5 - 1,725
Piston Size (Cooling)	0.076	0.076	0.076	0.076	0.076
Filter Size (#)	14 x 20 x 2 (4)	14 x 20 x 2 (4)	14 x 20 x 2 (4)	14 x 20 x 2 (4)	14 x 20 x 2 (4)
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	170	170	170	170	170
Evaporator Coil Face Area (ft ²)	7.8	7.8	7.8	7.8	7.8
Rows Deep / Fins per Inch	4 / 16	4 / 16	4 / 16	4 / 16	4 / 16
BELT DRIVE EVAP FAN DATA					
# of Wheels (D x W)	1 (10" x 9")	1 (10" x 9")	1 (11" x 10")	1 (11" x 10")	1 (11" x 10")
Motor Sheave	---	---	VL44 x ¾"	VL44 x ¾"	VL44 x ¾"
Blower Sheave / Belt	---	---	AK66 x 1 / AX52	AK66 x 1 / AX52	AK66 x 1 / AX52
CONDENSER FAN / COIL					
Quantity of condenser Fan Motors	1	1	1	1	1
Horsepower - RPM	¼ / 1,090	¼ / 1,090	¼ / 1,090	¼ - 890	¼ - 1,075
Fan Diameter / # Fan Blades	22 / 4	22 / 4	22 / 4	22 / 4	22 / 4
Outdoor Nominal CFM	3,800	3,800	3,800	3,800	3,800
Face Area (ft ²)	17	17	17	17	17
Rows Deep / Fins per Inch	2 / 18	2 / 18	2 / 18	2 / 18	2 / 18
Piston Size (Heating)	0.057	0.057	0.057	0.057	0.057
COMPRESSOR					
Quantity / Stage/ Type	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll
Compressor RLA / LRA	20 / 109	13.1 / 83.1	13.1 / 83.1	6.1 / 41	4.4 / 33
ELECTRICAL DATA					
Voltage - Phase - Frequency	208/230-1-60	208/230-3-60	208/230-3-60	460-3-60	575-3-60
Outdoor Fan FLA	1.40	1.40	1.40	0.80	0.60
Total Unit Amps	24.1	17.4	18.3	8.8	7.3
Min. Circuit Ampacity ¹	29	21	22	10	8
Max. Overcurrent Protection (amps) ²	45	30	30	15	10
Power Supply Conduit Hole	1.125"	1.125"	1.125"	1.125"	1.125"
Low Voltage Conduit Hole	½"	½"	½"	½"	½"
OPERATING WEIGHT (LBS)					
	585	585	585	585	585
SHIP WEIGHT (LBS)					
	610	610	610	610	610

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 — 5 TONS

	CPH060 ***1D***B*	CPH060 ***3D***B*	CPH060 ***3B***B*	CPH060 ***4B***B*	CPH060 ***7B***B*
COOLING CAPACITY					
Total BTU/h	59,500	59,500	59,500	59,500	59,500
Sensible BTU/h	43,200	43,200	43,200	43,200	43,200
SEER / EER	13 / 11.0	13 / 11.0	13 / 11.0	13 / 11.0	13 / 11.0
Decibels	78	78	78	78	78
AHRI Reference #s	4385114	4385115	4385115	4385116	4397612
HEATING CAPACITY					
BTU/h / COP (47° F)	57,000 / 3.5	57,000 / 3.5	57,000 / 3.5	57,000 / 3.5	57,000 / 3.5
BTU/h / COP (17° F)	32,000 / 2.2	32,000 / 2.2	32,000 / 2.2	32,000 / 2.2	32,000 / 2.2
HSPF	7.7	7.7	7.7	7.7	7.7
EVAPORATOR MOTOR/ COIL					
Motor Type	Direct	Direct	Belt	Belt	Belt
Indoor Nominal CFM	1,950	1,950	1,950	1,950	1,950
Piston Size (Cooling)	0.082	0.082	0.082	0.082	0.082
Filter Size (#)	14 x 20 x 2 (4)	14 x 20 x 2 (4)	14 x 20 x 2 (4)	14 x 20 x 2 (4)	14 x 20 x 2 (4)
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	170	170	170	170	170
Face Area (ft²)	7.8	7.8	7.8	7.8	7.8
Rows Deep / Fins per Inch	4 / 16	4 / 16	4 / 16	4 / 16	4 / 16
Tube Diameter - Material	5/16 - Copper	5/16 - Copper	5/16 - Copper	5/16 - Copper	5/16 - Copper
BELT DRIVE EVAP FAN DATA					
# of Wheels (D x W)	---	---	1 (11" x 10")	1 (11" x 10")	1 (11" x 10")
Motor Sheave	---	---	VL44 x ¾"	VL44 x ¾"	VL44 x ¾"
Blower Sheave / Belt	---	---	AK61 x 1 / AX52	AK61 x 1 / AX52	AK61 x 1 / AX52
CONDENSER FAN / COIL					
Horsepower / RPM	¼ / 1,090	¼ / 1,090	¼ / 1,090	¼ / 1,090	¼ / 1,075
Fan Diameter / # Fan Blades	22 / 4	22 / 4	22 / 4	22 / 4	22 / 4
Outdoor Nominal CFM	3,800	3,800	3,800	3,800	3,800
Face Area (ft²)	17	17	17	17	17
Rows Deep / Fins per Inch	2 / 18	2 / 18	2 / 18	2 / 18	2 / 18
Tube Diameter - Material	5/16 - Copper	5/16 - Copper	5/16 - Copper	5/16 - Copper	5/16 - Copper
Piston Size (Heating)	0.064	0.064	0.064	0.064	0.064
COMPRESSOR					
Quantity / Stage/ Type	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll
Compressor RLA / LRA	26.4 / 134	16 / 110	16 / 110	7.8 / 52	5.7 / 38.9
ELECTRICAL DATA					
Voltage - Phase - Frequency	208/230-1-60	208/230-3-60	208/230-3-60	460-3-60	575-3-60
Indoor Blower HP / FLA	1.0 / 7.6	1.0 / 7.6	1.0 / 3.8	1.0 / 1.9	1.5 / 2.3
Indoor Blower LRA	---	---	24	12	12
Outdoor Fan HP / FLA	¼ / 1.40	¼ / 1.40	¼ / 1.40	¼ / 0.80	¼ / 0.60
Total Unit Amps	35.4	25	21.2	10.5	8.6
Min. Circuit Ampacity ¹	42	29	25	12	10
Max. Overcurrent Protection (amps) ²	60	45	40	20	15
Power Supply Conduit Hole	1.125"	1.125"	1.125"	1.125"	1.125"
Low Voltage Conduit Hole	½"	½"	½"	½"	½"
OPERATING WEIGHT (LBS)					
	590	590	590	590	590
SHIP WEIGHT (LBS)					
	615	615	615	615	615

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 — 6 TONS

	CPH072 ***3B***B*	CPH072 ***4B***B*	CPH072 ***7B***B*
COOLING CAPACITY			
Total BTU/h	70,000	70,000	70,000
Sensible BTU/h	50,410	50,410	50,410
EER / IEER	11.1 / 11.2	11.1 / 11.2	11.1 / 11.2
Decibels	78.0	78.0	78.0
AHRI Number	5104780	5104780	5104780
HEATING CAPACITY			
BTU/h (47° F)	70,000	70,000	70,000
COP (47° F)	3.6	3.6	3.6
BTU/h (17° F)	39,000	39,000	39,000
COP (17° F)	2.3	2.3	2.3
EVAPORATOR MOTOR / COIL			
Motor Type	Belt Drive	Belt Drive	Belt Drive
# of Wheels (D x W)	1 (11" x 10")	1 (11" x 10")	1 (11" x 10")
Indoor Nominal CFM	2,400	2,400	2,400
Indoor Motor FLA (Cooling)	5.0	2.5	2.3
Horsepower - RPM	1.5-1,725	1.5-1,725	1.5-1,725
Piston Size (Cooling)	0.094	0.094	0.094
Filter Size (Qty)	(4) 16" x 20" x 2"	(4) 16" x 20" x 2"	(4) 16" x 20" x 2"
Drain Size (NPT)	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	233.0	233.0	233.0
Evaporator Coil Face Area (ft²)	8.9	8.9	8.9
Rows Deep/ Fins per Inch	4/ 16	4/ 16	4/ 16
Motor Sheave	VL44 x 7/8	VL44 x 7/8	VL44 x 7/8
Blower Sheave / Belt	AK59x1 / AX52	AK59x1 / AX52	AK59x1 / AX52
CONDENSER FAN / COIL			
Quantity of Condenser Fan Motors	1	1	1
Horsepower - RPM	⅓ - 1,075	⅓ - 1,075	⅓ - 1,075
Fan Diameter/ # Fan Blades	22/ 4	22/ 4	22/ 4
Outdoor Nominal CFM	4,300	4,300	4,300
Face Area (ft²)	18.7	18.7	18.7
Rows Deep/ Fins per Inch	2/ 20	2/ 20	2/ 20
Piston Size (Heating)	0.080	0.080	0.080
COMPRESSOR			
Quantity / Stage/ Type	1 / Single/ Scroll	1 / Single/ Scroll	1 / Single/ Scroll
Compressor RLA / LRA	19/123.0	9.7/62.0	7.4/50.0
ELECTRICAL DATA			
Voltage/ Phase/ Frequency	208-230/ 3/ 60	460/ 3/ 60	575/ 3/ 60
Belt-Driven Standard Max Static	1.0	1.0	1.0
Outdoor Fan FLA	1.90	1.20	0.90
Total Unit Amps	25.9	13.4	10.6
Min. Circuit Ampacity ¹	31	16	12
Max. Overcurrent Protection (amps) ²	45	25	15
Entrance Power Supply	1.125"	1.125"	1.125"
Entrance Control Voltage	½"	½"	½"
OPERATING WEIGHT (LBS)			
	650	650	650
SHIP WEIGHT (LBS)			
	675	675	675

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 COOLING DATA — CPH036

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	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	0.77	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	-
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	
	kW	2.54	2.59	2.67	-	2.73	2.78	2.86	-	2.89	2.95	3.04	-	3.03	3.09	3.19	-	3.15	3.21	3.31	-	3.25	3.32	3.42	-	
	HI PR	238	256	270	-	267	287	303	-	304	327	345	-	346	372	393	-	389	419	442	-	430	463	488	-	
	LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-	
	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	0.74	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	-	
	ΔT	19	16	12	-	19	16	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	
	kW	2.53	2.58	2.65	-	2.71	2.76	2.84	-	2.86	2.92	3.01	-	3.00	3.07	3.16	-	3.12	3.19	3.29	-	3.23	3.29	3.40	-	
Amps	8.5	8.7	8.9	-	9.1	9.2	9.5	-	9.7	9.8	10.1	-	10.2	10.4	10.6	-	10.7	10.9	11.2	-	11.2	11.4	11.7	-		
HI PR	236	253	268	-	264	284	300	-	301	323	342	-	342	368	389	-	385	414	438	-	426	458	484	-		
LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-		
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	0.71	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	-		
ΔT	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-		
kW	2.47	2.52	2.59	-	2.64	2.70	2.78	-	2.80	2.86	2.94	-	2.93	2.99	3.09	-	3.05	3.11	3.21	-	3.15	3.22	3.32	-		
Amps	8.4	8.5	8.7	-	8.9	9.0	9.3	-	9.4	9.6	9.9	-	9.9	10.1	10.4	-	10.4	10.7	10.9	-	10.9	11.2	11.5	-		
HI PR	228	246	260	-	256	276	291	-	292	314	331	-	332	357	377	-	374	402	425	-	413	444	469	-		
LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-		
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	0.88	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
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	21	19	18	15	
	kW	2.56	2.61	2.69	2.77	2.75	2.80	2.89	2.98	2.91	2.97	3.06	3.15	3.05	3.12	3.21	3.31	3.17	3.24	3.34	3.45	3.28	3.35	3.45	3.56	
	Amps	8.7	8.8	9.0	9.3	9.2	9.4	9.6	9.9	9.8	10.0	10.2	10.5	10.3	10.5	10.8	11.1	10.8	11.1	11.4	11.7	11.4	11.6	11.9	12.3	
	HI PR	240	259	273	285	270	290	306	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	493	515	
	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	
	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	0.84	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	
	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	17	11	20	19	15	11	
kW	2.55	2.60	2.67	2.75	2.73	2.78	2.86	2.95	2.89	2.95	3.04	3.13	3.03	3.09	3.19	3.29	3.15	3.21	3.31	3.42	3.25	3.32	3.43	3.54		
Amps	8.6	8.8	9.0	9.2	9.1	9.3	9.5	9.8	9.7	9.9	10.2	10.5	10.2	10.4	10.7	11.0	10.8	11.0	11.3	11.6	11.3	11.5	11.8	12.2		
HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	463	489	510		
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		
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	0.81	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		
ΔT	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11		
kW	2.49	2.54	2.61	2.69	2.66	2.72	2.80	2.88	2.82	2.88	2.96	3.06	2.96	3.02	3.11	3.21	3.07	3.14	3.24	3.34	3.17	3.24	3.34	3.45		
Amps	8.4	8.6	8.8	9.0	8.9	9.1	9.3	9.6	9.5	9.7	9.9	10.2	10.0	10.2	10.5	10.8	10.5	10.7	11.0	11.4	11.0	11.2	11.6	11.9		
HI PR	231	248	262	274	259	279	294	307	295	317	335	349	335	361	381	398	377	406	429	447	417	449	474	494		
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		

IDB = Entering Indoor Dry Bulb Temperature
 High & low pressures are measured at the liquid & suction service ports.
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — CPH036 (CONT.)

IDB		OUTDOOR AMBIENT TEMPERATURE																																																	
		65						75						85						95						105						115																			
		AIRFLOW			59			63			67			71			75			79			83			87			91			95			99			103			107			111			115				
		ENTERING INDOOR WET BULB TEMPERATURE																																																	
80	1350	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	35.5	36.3	38.8	41.4	34.7	35.4	37.9	40.5	33.8	34.6	37.0	39.5	33.0	33.7	36.1	38.5	31.4	32.1	34.2	36.6	29.1	29.7	31.7	33.9	
		S/T	0.96	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	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	
		ΔT	23	22	19	16	24	23	20	16	23	23	20	16	22	22	23	20	16	23	22	20	16	20	20	18	15	23	22	19	16	24	23	20	16	23	23	20	16	22	22	20	16	20	20	18	15	20	20	18	15
		kW	2.58	2.63	2.71	2.79	2.77	2.82	2.91	3.00	2.93	2.99	3.08	3.18	3.08	3.08	3.14	3.24	3.34	3.20	3.27	3.37	3.48	3.30	3.37	3.48	3.59	2.58	2.63	2.71	2.79	2.77	2.82	2.91	3.00	2.93	2.99	3.08	3.18	3.08	3.14	3.24	3.34	3.20	3.27	3.37	3.48	3.30	3.37	3.48	3.59
		HI PR	243	261	276	288	272	293	310	323	310	333	352	367	353	380	401	418	397	427	451	470	439	472	498	520	243	261	276	288	272	293	310	323	310	333	352	367	353	380	401	418	397	427	451	470	439	472	498	520	
	LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169		
	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	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9		
	S/T	0.92	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	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		
	ΔT	24	23	20	16	25	24	20	16	25	24	21	16	25	24	21	16	23	23	20	16	22	22	19	15	24	23	20	16	25	24	20	16	25	24	21	16	23	23	20	16	22	22	19	15	22	22	19	15		
	kW	2.56	2.61	2.69	2.77	2.75	2.80	2.89	2.98	2.91	2.97	3.06	3.16	3.05	3.12	3.21	3.31	3.17	3.24	3.34	3.45	3.28	3.35	3.45	3.56	2.56	2.61	2.69	2.77	2.75	2.80	2.89	2.98	2.91	2.97	3.06	3.16	3.05	3.12	3.21	3.31	3.17	3.24	3.34	3.45	3.28	3.35	3.45	3.56		
Amps	8.7	8.8	9.0	9.3	9.2	9.4	9.6	9.9	9.8	10.0	10.2	10.5	10.3	10.5	10.8	11.1	10.8	11.1	11.4	11.7	11.4	11.6	11.9	12.3	8.7	8.8	9.0	9.3	9.2	9.4	9.6	9.9	9.8	10.0	10.2	10.5	10.3	10.5	10.8	11.1	10.8	11.1	11.4	11.7	11.4	11.6	11.9	12.3			
HI PR	240	259	273	285	270	290	306	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	493	515	240	259	273	285	270	290	306	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	493	515			
LO PR	108	115	126	134	114	122	133	141	109	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	108	115	126	134	114	122	133	141	109	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167			
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	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4			
S/T	0.89	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	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			
ΔT	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	15	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	15			
kW	2.51	2.56	2.63	2.71	2.69	2.74	2.82	2.91	2.84	2.90	2.99	3.08	2.98	3.04	3.14	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48	2.51	2.56	2.63	2.71	2.69	2.74	2.82	2.91	2.84	2.90	2.99	3.08	2.98	3.04	3.14	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48			
Amps	8.5	8.6	8.8	9.1	9.0	9.2	9.4	9.7	9.6	9.8	10.0	10.3	10.1	10.3	10.6	10.9	10.6	10.8	11.1	11.4	11.1	11.3	11.6	12.0	8.5	8.6	8.8	9.1	9.0	9.2	9.4	9.7	9.6	9.8	10.0	10.3	10.1	10.3	10.6	10.9	10.6	10.8	11.1	11.4	11.1	11.3	11.6	12.0			
HI PR	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499			
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	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162			
85	1350	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	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1	36.8	39.2	33.6	34.2	35.9	38.3	31.9	32.5	34.1	36.4	29.6	30.1	31.6	33.7	
		S/T	1.00	0.98	0.88	0.71	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	0.81	0.82	1.00	0.98	0.88	0.71	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	0.81	0.82	
		ΔT	25	24	23	20	24	24	23	20	23	24	23	20	23	23	24	20	22	22	23	20	22	22	19	19	25	24	23	20	24	24	23	20	23	24	23	20	22	22	23	20	22	22	23	20	22	22	19	19	
		kW	2.60	2.65	2.73	2.81	2.79	2.85	2.93	3.02	2.95	3.02	3.11	3.21	3.10	3.16	3.26	3.37	3.22	3.29	3.40	3.50	3.33	3.40	3.51	3.62	2.60	2.65	2.73	2.81	2.79	2.85	2.93	3.02	2.95	3.02	3.11	3.21	3.10	3.16	3.26	3.37	3.22	3.29	3.40	3.50	3.33	3.40	3.51	3.62	
		Amps	8.8	8.9	9.2	9.4	9.3	9.5	9.7	10.0	9.9	10.1	10.4	10.7	10.5	10.7	11.0	11.3	11.0	11.2	11.5	11.9	11.5	11.8	12.1	12.5	8.8	8.9	9.2	9.4	9.3	9.5	9.7	10.0	9.9	10.1	10.4	10.7	10.5	10.7	11.0	11.3	11.0	11.2	11.5	11.9	11.5	11.8	12.1	12.5	
	HI PR	245	264	279	291	275	296	313	326	313	337	356	371	356	384	405	422	401	431	456	475	443	477	503	525	245	264	279	291	275	296	313	326	313	337	356	371	356	384	405	422	401	431	456	475	443	477	503	525		
	LO PR	110	117	128	137	117	124	135	144	121	129	141	150	127	135	148	158	133	142	155	165	138	147	160	171	110	117	128	137	117	124	135	144	121	129	141	150	127	135	148	158	133	142	155	165	138	147	160	171		
	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	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7		
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.																																							

EXPANDED COOLING DATA — CPH048

IDB		OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	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	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.72	0.50	-
		ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		kW	3.18	3.24	3.33	-	3.40	3.47	3.57	-	3.59	3.66	3.77	-	3.76	3.84	3.95	-	3.91	3.99	4.11	-	4.03	4.12	4.24	-
		HI PR	233	251	265	-	262	281	297	-	297	320	338	-	339	365	385	-	381	410	433	-	421	453	479	-
		LO PR	112	119	130	-	118	125	137	-	123	130	142	-	129	137	150	-	135	144	157	-	140	148	162	-
	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	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.47	-	0.83	0.69	0.48	-
		ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		kW	3.16	3.22	3.31	-	3.38	3.44	3.54	-	3.57	3.64	3.74	-	3.74	3.81	3.92	-	3.88	3.96	4.08	-	4.00	4.08	4.21	-
		Amps	10.6	10.8	11.0	-	11.2	11.3	11.6	-	11.8	12.0	12.3	-	12.4	12.6	12.9	-	13.0	13.2	13.5	-	13.5	13.8	14.1	-
		HI PR	231	248	262	-	259	279	294	-	295	317	335	-	335	361	381	-	377	406	429	-	417	449	474	-
1400	LO PR	111	118	128	-	117	124	136	-	121	129	141	-	127	136	148	-	134	142	155	-	138	147	160	-	
	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	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-	
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	
	kW	3.09	3.15	3.24	-	3.30	3.37	3.46	-	3.49	3.56	3.66	-	3.65	3.72	3.83	-	3.79	3.87	3.98	-	3.91	3.99	4.11	-	
	Amps	10.4	10.6	10.8	-	11.0	11.1	11.4	-	11.6	11.8	12.1	-	12.2	12.4	12.7	-	12.7	12.9	13.3	-	13.3	13.5	13.8	-	
75	1800	HI PR	224	241	254	-	251	270	285	-	286	307	325	-	325	350	370	-	366	394	416	-	404	435	460	-
		LO PR	107	114	124	-	113	120	132	-	118	125	137	-	124	132	144	-	130	138	150	-	134	143	156	-
		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	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.87	0.66	0.43	0.99	0.88	0.67	0.43
		ΔT	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10
		kW	3.21	3.27	3.36	3.46	3.43	3.49	3.59	3.70	3.62	3.69	3.80	3.92	3.79	3.87	3.98	4.11	3.94	4.02	4.14	4.27	4.06	4.15	4.27	4.41
	1600	Amps	10.7	10.9	11.1	11.4	11.3	11.5	11.8	12.1	12.0	12.2	12.5	12.8	12.6	12.8	13.1	13.5	13.2	13.4	13.7	14.1	13.7	14.0	14.4	14.8
		HI PR	235	253	268	279	264	284	300	313	300	323	341	356	342	368	389	406	385	414	438	456	425	458	483	504
		LO PR	113	120	131	139	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	169	141	150	164	174
		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	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.41	0.94	0.84	0.64	0.41
		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
1400	kW	3.18	3.24	3.33	3.43	3.40	3.47	3.57	3.67	3.59	3.67	3.77	3.89	3.76	3.84	3.95	4.08	3.91	3.99	4.11	4.24	4.03	4.12	4.24	4.37	
	Amps	10.7	10.8	11.1	11.3	11.2	11.4	11.7	12.0	11.9	12.1	12.4	12.7	12.5	12.7	13.0	13.4	13.1	13.3	13.6	14.0	13.6	13.9	14.2	14.7	
	HI PR	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499	
	LO PR	112	119	130	138	118	125	137	146	123	130	142	152	129	137	150	159	135	144	157	167	140	148	162	173	
	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	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.91	0.81	0.61	0.39	
1400	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	
	kW	3.12	3.17	3.26	3.36	3.33	3.39	3.49	3.59	3.51	3.58	3.69	3.80	3.68	3.75	3.86	3.98	3.82	3.90	4.01	4.14	3.94	4.02	4.14	4.27	
	Amps	10.5	10.6	10.9	11.1	11.0	11.2	11.5	11.8	11.7	11.9	12.2	12.5	12.2	12.5	12.8	13.1	12.8	13.0	13.4	13.7	13.4	13.6	13.9	14.3	
	HI PR	226	243	257	268	254	273	288	301	289	311	328	342	329	354	374	390	370	398	420	438	409	440	464	484	
	LO PR	108	115	126	134	114	122	133	142	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	

IDB = Entering Indoor Dry Bulb Temperature
 High & low pressures are measured at the liquid & suction service ports.
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — CPH048 (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																													
		65					75					85					95					105					115				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
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					
		S/T	0.94	0.88	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62					
		ΔT	22	22	19	15	23	22	19	15	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	18	14				
		kW	3.23	3.29	3.38	3.48	3.45	3.52	3.62	3.73	3.65	3.72	3.83	3.95	3.82	3.90	4.02	4.14	3.97	4.05	4.17	4.30	4.10	4.18	4.30	4.44					
		HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	462	488	509					
		LO PR	114	121	132	141	120	128	140	149	125	133	145	155	131	140	153	162	138	146	160	170	142	151	165	176					
	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					
		S/T	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	1.00	0.97	0.59					
		ΔT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	18	15					
		kW	3.21	3.27	3.36	3.46	3.43	3.49	3.59	3.70	3.62	3.69	3.80	3.92	3.79	3.87	3.99	4.11	3.94	4.02	4.14	4.27	4.06	4.15	4.28	4.41					
		Amps	10.7	10.9	11.1	11.4	11.3	11.5	11.8	12.1	12.0	12.2	12.5	12.8	12.6	12.8	13.1	13.5	13.2	13.4	13.7	14.1	13.7	14.0	14.4	14.8					
		HI PR	235	253	268	279	264	284	300	313	301	323	341	356	342	368	389	406	385	414	438	456	425	458	483	504					
1400	LO PR	113	120	131	139	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	169	141	150	164	174						
	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						
	S/T	0.87	0.81	0.66	0.49	0.90	0.84	0.69	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.73	0.54	0.99	0.93	0.75	0.56	0.99	0.93	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	3.14	3.20	3.29	3.38	3.35	3.42	3.51	3.62	3.54	3.61	3.72	3.83	3.71	3.78	3.89	4.01	3.85	3.93	4.04	4.17	3.97	4.05	4.17	4.30						
	Amps	10.5	10.7	10.9	11.2	11.1	11.3	11.5	11.8	11.8	12.0	12.2	12.6	12.3	12.5	12.8	13.2	12.9	13.1	13.4	13.8	13.5	13.7	14.0	14.5						
85	1800	HI PR	228	246	260	271	256	276	291	304	292	314	331	345	332	357	377	394	374	402	424	443	413	444	469	489					
		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					
		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	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.98	0.79	1.00	1.00	0.99	0.80					
		ΔT	24	24	22	19	24	24	23	20	23	24	23	20	23	23	23	20	21	22	22	19	20	20	21	18					
		kW	3.25	3.31	3.41	3.51	3.48	3.54	3.65	3.76	3.67	3.75	3.86	3.98	3.85	3.93	4.05	4.17	4.00	4.08	4.21	4.34	4.13	4.21	4.34	4.48					
	1600	Amps	10.9	11.0	11.3	11.6	11.4	11.6	11.9	12.2	12.1	12.4	12.7	13.0	12.7	13.0	13.3	13.7	13.3	13.6	13.9	14.3	13.9	14.2	14.6	15.0					
		HI PR	240	259	273	285	270	290	306	319	307	330	348	363	349	376	397	414	393	423	446	466	434	467	493	514					
		LO PR	115	122	134	142	122	129	141	150	126	134	147	156	133	141	154	164	139	148	161	172	144	153	167	178					
		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	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76					
		ΔT	25	25	23	20	25	25	23	20	25	25	23	20	25	25	24	20	23	24	23	20	22	22	22	19					
1400	kW	3.23	3.29	3.38	3.48	3.45	3.52	3.62	3.73	3.65	3.72	3.83	3.95	3.82	3.90	4.02	4.14	3.97	4.05	4.17	4.30	4.10	4.18	4.31	4.44						
	Amps	10.8	11.0	11.2	11.5	11.4	11.6	11.8	12.2	12.1	12.3	12.6	12.9	12.7	12.9	13.2	13.6	13.3	13.5	13.8	14.2	13.8	14.1	14.5	14.9						
	HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	462	488	509						
	LO PR	114	121	132	141	120	128	140	149	125	133	145	155	131	140	153	162	138	146	160	170	142	151	165	176						
	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	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.97	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74						
1400	ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	21	23	23	22	19						
	kW	3.16	3.22	3.31	3.40	3.38	3.44	3.54	3.64	3.57	3.64	3.74	3.86	3.73	3.81	3.92	4.04	3.88	3.96	4.08	4.20	4.00	4.08	4.21	4.34						
	Amps	10.6	10.8	11.0	11.3	11.2	11.3	11.6	11.9	11.8	12.0	12.3	12.6	12.4	12.6	12.9	13.3	13.0	13.2	13.5	13.9	13.5	13.8	14.1	14.6						
	HI PR	231	248	262	273	259	279	294	307	294	317	335	349	335	361	381	397	377	406	429	447	417	449	474	494						
	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						

Shaded area reflects AHRI (TVA) conditions
 kW = Total system power
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — CPH060

IDB		OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	2190	MBh	58.3	60.4	66.2	-	56.9	59.0	64.7	-	55.6	57.6	63.1	-	54.2	56.2	61.6	-	51.5	53.4	58.5	-	47.7	49.5	54.2	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-
		kW	3.97	4.06	4.18	-	4.27	4.36	4.50	-	4.54	4.64	4.78	-	4.77	4.88	5.03	-	4.97	5.08	5.25	-	5.14	5.25	5.43	-
	1950	HI PR	244	262	277	-	273	294	311	-	311	335	353	-	354	381	402	-	398	429	453	-	440	474	500	-
		LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-
		MBh	56.6	58.7	64.3	-	55.3	57.3	62.8	-	54.0	55.9	61.3	-	52.7	54.6	59.8	-	50.0	51.8	56.8	-	46.3	48.0	52.6	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
	1710	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		kW	3.85	3.93	4.05	-	4.14	4.23	4.36	-	4.39	4.49	4.63	-	4.62	4.72	4.87	-	4.81	4.91	5.07	-	4.97	5.08	5.25	-
		Amps	12.1	12.3	12.6	-	12.9	13.1	13.5	-	13.8	14.0	14.4	-	14.5	14.8	15.3	-	15.3	15.6	16.1	-	16.1	16.4	16.9	-
		HI PR	234	252	266	-	263	283	298	-	299	321	339	-	340	366	386	-	383	412	435	-	423	455	480	-
LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-		
75	2190	MBh	59.3	61.0	66.1	70.9	57.9	59.6	64.5	69.3	56.5	58.2	63.0	67.6	55.2	56.8	61.5	66.0	52.4	53.9	58.4	62.7	48.5	50.0	54.1	58.1
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		kW	4.01	4.09	4.22	4.35	4.31	4.40	4.54	4.68	4.58	4.67	4.82	4.98	4.81	4.92	5.08	5.24	5.01	5.12	5.29	5.47	5.18	5.30	5.47	5.66
	1950	Amps	12.5	12.8	13.1	13.5	13.4	13.6	14.0	14.4	14.3	14.6	15.0	15.5	15.1	15.4	15.9	16.4	15.9	16.3	16.7	17.3	16.7	17.1	17.6	18.2
		HI PR	246	265	280	292	276	297	314	327	314	338	357	372	358	385	406	424	402	433	457	477	445	478	505	527
		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
		MBh	57.6	59.3	64.2	68.9	56.2	57.9	62.7	67.3	54.9	56.5	61.2	65.7	53.6	55.1	59.7	64.1	50.9	52.4	56.7	60.8	47.1	48.5	52.5	56.4
	1710	S/T	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.91	0.81	0.61	0.39
		ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	19	15	10
		kW	3.97	4.06	4.18	4.31	4.27	4.36	4.50	4.65	4.54	4.64	4.78	4.94	4.77	4.88	5.03	5.20	4.97	5.08	5.25	5.42	5.14	5.26	5.43	5.61
		Amps	12.4	12.7	13.0	13.4	13.3	13.5	13.9	14.3	14.2	14.5	14.9	15.4	15.0	15.3	15.7	16.3	15.8	16.1	16.6	17.2	16.6	17.0	17.5	18.0
1710	HI PR	244	262	277	289	273	294	311	324	311	335	353	369	354	381	402	420	398	429	453	472	440	474	500	522	
	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	
	MBh	53.1	54.7	59.2	63.6	51.9	53.4	57.8	62.1	50.7	52.2	56.5	60.6	49.4	50.9	55.1	59.1	47.0	48.3	52.3	56.2	43.5	44.8	48.5	52.0	
	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	0.83	0.75	0.57	0.36	0.87	0.77	0.59	0.38	0.87	0.78	0.59	0.38	
1710	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	17	11	20	19	15	11	
	kW	3.88	3.96	4.08	4.21	4.17	4.26	4.39	4.53	4.43	4.52	4.67	4.82	4.66	4.76	4.91	5.07	4.85	4.95	5.11	5.28	5.01	5.12	5.29	5.47	
	Amps	12.2	12.4	12.7	13.1	13.0	13.2	13.6	14.0	13.9	14.1	14.5	15.0	14.7	15.0	15.4	15.9	15.4	15.8	16.2	16.7	16.2	16.6	17.0	17.6	
	HI PR	236	254	269	280	265	285	301	314	302	325	343	357	344	370	390	407	386	416	439	458	427	460	485	506	
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		

IDB = Entering Indoor Dry Bulb Temperature
 High & low pressures are measured at the liquid & suction service ports.
 Shaded area reflects ACCA (TVA) conditions
 kW = Total system power
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — CPH072

IDB		OUTDOOR AMBIENT TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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		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	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903	1907	1911	1915	1919	1923	1927	1931	1935	1939	1943	1947	1951	1955	1959	1963	1967	1971	1975	1979	1983	1987	1991	1995	1999	2003	2007	2011	2015	2019	2023	2027	2031	2035	2039	2043	2047	2051	2055	2059	2063	2067	2071	2075	2079	2083	2087	2091	2095	2099	2103	2107	2111	2115	2119	2123	2127	2131	2135	2139	2143	2147	2151	2155	2159	2163	2167	2171	2175	2179	2183	2187	2191	2195	2199	2203	2207	2211	2215	2219	2223	2227	2231	2235	2239	2243	2247	2251	2255	2259	2263	2267	2271	2275	2279	2283	2287	2291	2295	2299	2303	2307	2311	2315	2319	2323	2327	2331	2335	2339	2343	2347	2351	2355	2359	2363	2367	2371	2375	2379	2383	2387	2391	2395	2399	2403	2407	2411	2415	2419	2423	2427	2431	2435	2439	2443	2447	2451	2455	2459	2463	2467	2471	2475	2479	2483	2487	2491	2495	2499	2503	2507	2511	2515	2519	2523	2527	2531	2535	2539	2543	2547	2551	2555	2559	2563	2567	2571	2575	2579	2583	2587	2591	2595	2599	2603	2607	2611	2615	2619	2623	2627	2631	2635	2639	2643	2647	2651	2655	2659	2663	2667	2671	2675	2679	2683	2687	2691	2695	2699	2703	2707	2711	2715	2719	2723	2727	2731	2735	2739	2743	2747	2751	2755	2759	2763	2767	2771	2775	2779	2783	2787	2791	2795	2799	2803	2807	2811	2815	2819	2823	2827	2831	2835	2839	2843	2847	2851	2855	2859	2863	2867	2871	2875	2879	2883	2887	2891	2895	2899	2903	2907	2911	2915	2919	2923	2927	2931	2935	2939	2943	2947	2951	2955	2959	2963	2967	2971	2975	2979	2983	2987	2991	2995	2999	3003	3007	3011	3015	3019	3023	3027	3031	3035	3039	3043	3047	3051	3055	3059	3063	3067	3071	3075	3079	3083	3087	3091	3095	3099	3103	3107	3111	3115	3119	3123	3127	3131	3135	3139	3143	3147	3151	3155	3159	3163	3167	3171	3175	3179	3183	3187	3191	3195	3199	3203	3207	3211	3215	3219	3223	3227	3231	3235	3239	3243	3247	3251	3255	3259	3263	3267	3271	3275	3279	3283	3287	3291	3295	3299	3303	3307	3311	3315	3319	3323	3327	3331	3335	3339	3343	3347	3351	3355	3359	3363	3367	3371	3375	3379	3383	3387	3391	3395	3399	3403	3407	3411	3415	3419	3423	3427	3431	3435	3439	3443	3447	3451	3455	3459	3463	3467	3471	3475	3479	3483	3487	3491	3495	3499	3503	3507	3511	3515	3519	3523	3527	3531	3535	3539	3543	3547	3551	3555	3559	3563	3567	3571	3575	3579	3583	3587	3591	3595	3599	3603	3607	3611	3615	3619	3623	3627	3631	3635	3639	3643	3647	3651	3655	3659	3663	3667	3671	3675	3679	3683	3687	3691	3695	3699	3703	3707	3711	3715	3719	3723	3727	3731	3735	3739	3743	3747	3751	3755	3759	3763	3767	3771	3775	3779	3783	3787	3791	3795	3799	3803	3807	3811	3815	3819	3823	3827	3831	3835	3839	3843	3847	3851	3855	3859	3863	3867	3871	3875	3879	3883	3887	3891	3895	3899	3903	3907	3911	3915	3919	3923	3927	3931	3935	3939	3943	3947	3951	3955	3959	3963	3967	3971	3975	3979	3983	3987	3991	3995	3999	4003	4007	4011	4015	4019	4023	4027	4031	4035	4039	4043	4047	4051	4055	4059	4063	4067	4071	4075	4079	4083	4087	4091	4095	4099	4103	4107	4111	4115	4119	4123	4127	4131	4135	4139	4143	4147	4151	4155	4159	4163	4167	4171	4175	4179	4183	4187	4191	4195	4199	4203	4207	4211	4215	4219	4223	4227	4231	4235	4239	4243	4247	4251	4255	4259	4263	4267	4271	4275	4279	4283	4287	4291	4295	4299	4303	4307	4311	4315	4319	4323	4327	4331	4335	4339	4343	4347	4351	4355	4359	4363	4367	4371	4375	4379	4383	4387	4391	4395	4399	4403	4407	4411	4415	4419	4423	4427	4431	4435	4439	4443	4447	4451	4455	4459	4463	4467	4471	4475	4479	4483	4487	4491	4495	4499	4503	4507	4511	4515	4519	4523	4527	4531	4535	4539	4543	4547	4551	4555	4559	4563	4567	4571	4575	4579	4583	4587	4591	4595	4599	4603	4607	4611	4615	4619	4623	4627	4631	4635	4639	4643	4647	4651	4655	4659	4663	4667	4671	4675	4679	4683	4687	4691	4695	4699	4703	4707	4711	4715	4719	4723	4727	4731	4735	4739	4743	4747	4751	4755	4759	4763	4767	4771	4775	4779	4783	4787	4791	4795	4799	4803	4807	4811	4815	4819	4823	4827	4831	4835	4839	4843	4847	4851	4855	4859	4863	4867	4871	4875	4879	4883	4887	4891	4895	4899	4903	4907	4911	4915	4919	4923	4927	4931	4935	4939	4943	4947	4951	4955	4959	4963	4967	4971	4975	4979	4983	4987	4991	4995	4999	5003	5007	5011	5015	5019	5023	5027	5031	5035	5039	5043	5047	5051	5055	5059	5063	5067	5071	5075	5079	5083	5087	5091	5095	5099	5103	5107	5111	5115	5119	5123	5127	5131	5135	5139	5143	5147	5151	5155	5159	5163	5167	5171	5175	5179	5183	5187	5191	5195	5199	5203	5207	5211	5215	5219	5223	5227	5231	5235	5239	5243	5247	5251	5255	5259	5263	5267	5271	5275	5279	5283	5287	5291	5295	5299	5303	5307	5311	5315	5319	5323	5327	5331	5335	5339	5343	5347	5351	5355	5359	5363	5367	5371	5375	5379	5383	5387	5391	5395	5399	5403	5407	5411	5415	5419	5423	5427	5431	5435	5439	5443	5447	5451	5455	5459	5463	5467	5471	5475	5479	5483	5487	5491	5495	5499	5503	5507	5511	5515	5519	5523	5527	5531	5535	5539	5543

EXPANDED COOLING DATA — CPH072 (CONT.)

IDB		OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	
80	2400	MBh	71.0	72.5	77.5	82.8	69.3	70.8	75.7	80.9	67.7	69.1	73.9	79.0	66.0	67.5	72.1	77.0	62.7	64.1	68.5	73.2	58.1	59.4	63.4	67.8
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	22	22	19	15
		kW	5.13	5.23	5.38	5.54	5.49	5.61	5.78	5.96	5.82	5.94	6.12	6.32	6.11	6.24	6.43	6.64	6.35	6.49	6.69	6.91	6.57	6.71	6.92	7.14
		Amps	17.2	17.5	17.9	18.4	18.2	18.5	18.9	19.5	19.3	19.7	20.2	20.8	20.3	20.7	21.3	21.9	21.3	21.7	22.3	23.0	22.3	22.8	23.4	24.1
	2150	Hi Pr	244	263	278	290	274	295	312	325	312	336	354	370	355	382	404	421	399	430	454	473	441	475	502	523
		Lo Pr	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169
		MBh	69.9	71.4	76.3	81.6	68.3	69.8	74.6	79.7	66.7	68.1	72.8	77.8	65.0	66.5	71.0	75.9	61.8	63.1	67.5	72.1	57.2	58.5	62.5	66.8
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56
		ΔT	25	24	21	17	26	25	21	17	26	25	21	17	26	25	22	17	26	25	21	17	24	23	20	16
1875	kW	5.10	5.20	5.35	5.52	5.47	5.58	5.75	5.92	5.79	5.91	6.09	6.28	6.08	6.20	6.40	6.60	6.32	6.45	6.66	6.87	6.53	6.67	6.88	7.10	
	Amps	17.1	17.4	17.8	18.3	18.1	18.4	18.9	19.4	19.2	19.6	20.1	20.7	20.2	20.6	21.1	21.8	21.2	21.6	22.2	22.9	22.2	22.6	23.3	24.0	
	Hi Pr	243	261	276	288	272	293	309	323	310	333	352	367	353	379	401	418	397	427	451	470	438	472	498	519	
	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	
	MBh	64.5	65.9	70.4	75.3	63.0	64.4	68.8	73.6	61.5	62.9	67.2	71.8	60.0	61.3	65.5	70.1	57.0	58.3	62.3	66.6	52.8	54.0	57.7	61.6	
85	2400	S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.48	0.87	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.88	0.71	0.53	0.94	0.88	0.72	0.54
		ΔT	26	25	22	17	26	25	22	17	26	25	22	18	26	25	22	18	26	25	22	17	24	23	20	16
		kW	4.99	5.08	5.23	5.39	5.34	5.45	5.61	5.78	5.66	5.77	5.95	6.13	5.93	6.06	6.24	6.44	6.17	6.30	6.50	6.70	6.37	6.51	6.71	6.93
		Amps	16.8	17.0	17.4	17.9	17.7	18.0	18.5	19.0	18.8	19.2	19.7	20.2	19.8	20.2	20.7	21.3	20.8	21.2	21.7	22.4	21.7	22.1	22.7	23.4
		Hi Pr	235	253	267	279	264	284	300	313	300	323	341	356	342	368	389	405	385	414	437	456	425	458	483	504
	2150	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
		MBh	72.2	73.6	77.1	82.2	70.5	71.9	75.3	80.3	68.8	70.2	73.5	78.4	67.2	68.5	71.7	76.5	63.8	65.0	68.1	72.7	59.1	60.2	63.1	67.3
		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	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	24	25	24	21	23	23	22	19
		kW	5.16	5.27	5.42	5.59	5.54	5.65	5.82	6.00	5.87	5.99	6.17	6.37	6.16	6.29	6.48	6.69	6.40	6.54	6.75	6.96	6.62	6.76	6.97	7.20
1875	Amps	17.3	17.6	18.0	18.5	18.3	18.6	19.1	19.6	19.5	19.8	20.3	20.9	20.5	20.9	21.4	22.0	21.5	21.9	22.5	23.2	22.5	22.9	23.5	24.3	
	Hi Pr	247	266	280	292	277	298	315	328	315	339	358	373	359	386	408	425	403	434	458	478	446	480	507	528	
	Lo Pr	110	117	128	136	116	124	135	144	121	129	140	150	127	135	147	157	133	142	155	165	138	146	160	170	
	MBh	71.1	72.5	75.9	81.0	69.5	70.8	74.2	79.1	67.8	69.1	72.4	77.3	66.2	67.5	70.6	75.4	62.9	64.1	67.1	71.6	58.2	59.4	62.2	66.3	
	S/T	0.89	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72	
85	2400	ΔT	27	27	25	22	27	27	26	22	27	27	26	22	28	27	26	22	27	27	25	22	25	25	24	21
		kW	5.14	5.24	5.39	5.56	5.51	5.62	5.79	5.97	5.83	5.96	6.14	6.33	6.12	6.25	6.45	6.65	6.37	6.50	6.71	6.93	6.58	6.72	6.94	7.16
		Amps	17.2	17.5	17.9	18.4	18.2	18.5	19.0	19.5	19.4	19.7	20.2	20.8	20.4	20.8	21.3	21.9	21.4	21.8	22.4	23.0	22.4	22.8	23.4	24.1
		Hi Pr	245	264	278	290	275	296	312	326	313	337	355	371	356	383	405	422	401	431	455	475	443	476	503	525
		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
	2150	MBh	65.7	66.9	70.1	74.8	64.1	65.4	68.5	73.0	62.6	63.8	66.8	71.3	61.1	62.3	65.2	69.6	58.0	59.1	61.9	66.1	53.7	54.8	57.4	61.2
		S/T	0.86	0.83	0.75	0.61	0.89	0.86	0.78	0.63	0.91	0.88	0.80	0.65	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	0.99	0.95	0.86	0.70
		ΔT	28	27	26	22	28	28	26	23	28	28	26	23	28	28	26	23	28	27	26	23	26	26	24	21
		kW	5.02	5.12	5.27	5.43	5.38	5.49	5.66	5.83	5.70	5.82	5.99	6.18	5.98	6.10	6.29	6.49	6.22	6.35	6.55	6.76	6.42	6.56	6.77	6.98
		Amps	16.9	17.2	17.6	18.0	17.8	18.2	18.6	19.1	19.0	19.3	19.8	20.4	19.9	20.3	20.8	21.4	20.9	21.3	21.9	22.5	21.9	22.3	22.9	23.6
1875	Hi Pr	238	256	270	282	267	287	303	316	303	326	345	359	345	372	393	409	389	418	442	461	429	462	488	509	
	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	

IDB = Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHRI (TVA) Rating Conditions
 kW = Total system power
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED HEATING DATA

CPH 036B

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	43.5	41.2	38.8	36.2	34.6	33.5	31.1	28.7	23.7	21.9	20.1	19.0	18.3	16.4	14.6	12.7	10.8	8.9
T/R	33.6	31.8	29.9	28.0	26.7	25.9	24.0	22.2	18.3	16.9	15.5	14.7	14.1	12.7	11.2	9.8	8.4	6.8
kW	2.93	2.88	2.82	2.77	2.74	2.72	2.66	2.61	2.63	2.58	2.52	2.49	2.47	2.41	2.36	2.30	2.25	2.19
Amps	10.7	10.1	9.6	9.2	8.9	8.8	8.4	8.1	7.8	7.6	7.3	7.2	7.1	6.9	6.6	6.3	6.0	5.6
COP	4.34	4.19	4.02	3.83	3.70	3.61	3.42	3.22	2.63	2.48	2.33	2.23	2.17	1.99	1.81	1.61	1.41	1.18
EER	14.8	14.3	13.7	13.1	12.6	12.3	11.7	11.0	9.0	8.5	8.0	7.6	7.4	6.8	6.2	5.5	4.8	4.0
HI PR	357	342	329	314	307	301	290	278	266	254	244	238	234	225	216	208	200	193
LO PR	135	126	118	108	102	98	90	80	73	65	57	53	51	43	37	31	27	22

CPH048B

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	56.6	53.6	50.4	47.1	45.0	43.6	40.5	37.4	30.9	28.5	26.3	24.8	23.9	21.4	19.0	16.6	14.1	11.6
T/R	32.7	31.0	29.2	27.3	26.0	25.2	23.4	21.6	17.9	16.5	15.2	14.4	13.8	12.4	11.0	9.6	8.2	6.7
kW	4.00	3.93	3.85	3.78	3.74	3.71	3.64	3.56	3.47	3.39	3.32	3.28	3.25	3.18	3.11	3.04	2.97	2.90
Amps	14.9	14.0	13.3	12.7	12.4	12.2	11.7	11.3	11.0	10.6	10.3	10.1	10.0	9.7	9.3	8.9	8.5	8.0
COP	4.14	3.99	3.83	3.65	3.52	3.44	3.26	3.07	2.61	2.46	2.31	2.21	2.15	1.97	1.79	1.60	1.39	1.17
EER	14.1	13.6	13.1	12.5	12.0	11.8	11.1	10.5	8.9	8.4	7.9	7.6	7.3	6.7	6.1	5.5	4.8	4.0
HI PR	403	387	372	355	347	341	327	314	301	287	276	269	265	254	245	235	226	218
LO PR	134	124	116	107	101	97	89	79	72	64	56	52	50	43	37	31	27	21

CPH 060B

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	71.6	67.8	63.8	59.7	57.0	55.2	51.3	47.3	39.9	36.8	33.9	32.0	30.8	27.6	24.5	21.4	18.2	14.9
T/R	34.0	32.2	30.3	28.3	27.1	26.2	24.4	22.5	18.9	17.5	16.1	15.2	14.6	13.1	11.6	10.2	8.7	7.1
kW	4.83	4.74	4.64	4.55	4.50	4.46	4.37	4.27	4.16	4.07	3.97	3.92	3.88	3.79	3.70	3.61	3.51	3.42
Amps	17.9	16.8	15.8	15.0	14.6	14.3	13.7	13.1	12.6	12.2	11.7	11.5	11.4	10.9	10.3	9.9	9.3	8.6
COP	4.34	4.19	4.02	3.84	3.71	3.63	3.44	3.24	2.80	2.65	2.50	2.39	2.32	2.14	1.94	1.73	1.52	1.28
EER	14.8	14.3	13.7	13.1	12.7	12.4	11.8	11.1	9.6	9.1	8.5	8.2	7.9	7.3	6.6	5.9	5.2	4.4
HI PR	404	387	372	356	348	341	328	315	301	288	276	270	265	255	245	235	227	219
LO PR	130	121	113	104	98	94	87	77	70	62	55	51	49	42	36	30	26	21

CPH072

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	88.0	83.3	78.4	73.3	70.0	67.8	63.0	58.1	49.0	45.2	41.6	39.3	37.9	34.0	30.1	26.3	22.4	18.4
T/R	37.9	35.9	33.8	31.6	30.1	29.2	27.1	25.0	21.1	19.5	17.9	16.9	16.3	14.6	13.0	11.3	9.7	7.9
kW	6.10	5.98	5.87	5.76	5.69	5.64	5.53	5.42	5.24	5.13	5.02	4.96	4.91	4.80	4.69	4.58	4.47	4.36
Amps	23.4	22.1	20.9	20.0	19.4	19.1	18.3	17.6	17.1	16.5	16.0	15.7	15.5	15.0	14.3	13.7	13.1	12.2
COP	4.22	4.07	3.91	3.73	3.60	3.52	3.33	3.14	2.73	2.58	2.43	2.32	2.26	2.07	1.88	1.68	1.47	1.23
EER	14.4	13.9	13.4	12.7	12.3	12.0	11.4	10.7	9.3	8.8	8.3	7.9	7.7	7.1	6.4	5.7	5.0	4.2
HI PR	368	352	339	324	316	310	298	286	274	262	251	245	241	232	223	214	206	199
LO PR	131	121	114	104	99	95	87	78	70	63	55	51	49	42	36	30	26	21

Above information is for 2150 CFM & 70° indoor dry bulb; instantaneous capacity listed.

kW = Total system power

High pressure measured at liquid line access fitting.

Amps: Unit Amps (comp+evap motor+condenser fan motor)

Low pressure measured at compressor suction access fitting.

AIRFLOW DATA — CPH036

STANDARD BELT DRIVE — HORIZONTAL

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									1658	0.35	1489	0.28
0.4							1560	0.36	1339	0.28	1129	0.21
0.6			1682	0.47	1436	0.36	1196	0.27	949	0.19		
0.8	1581	0.50	1354	0.38	1096	0.28	828	0.18				
1.0	1266	0.39	994	0.28	756	0.19						
1.2	923	0.28										

HIGH-STATIC BELT DRIVE — HORIZONTAL

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6									1742	0.50	1431	0.36
0.8							1626	0.52	1357	0.39	1078	0.27
1.0					1611	0.56	1315	0.42	1011	0.28		
1.2			1605	0.62	1299	0.46	976	0.31				
1.4	1605	0.68	1281	0.51	959	0.35						
1.6	1281	0.57	981	0.41								
1.8	981	0.47										

STANDARD BELT DRIVE — DOWN SHOT

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									1424	0.30	1239	0.23
0.4					1520	0.39	1292	0.29	1073	0.22	779	0.14
0.6			1439	0.40	1192	0.30	944	0.21	619	0.12		
0.8	1350	0.42	1101	0.31	864	0.22						
1.0	1028	0.31	729	0.21								
1.2	675	0.20										

HIGH-STATIC BELT DRIVE — DOWN SHOT

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6							1692	0.54	1449	0.41	1173	0.29
0.8					1678	0.58	1397	0.44	1107	0.31	854	0.21
1.0			1681	0.65	1381	0.49	1078	0.34	794	0.22		
1.2	1681	0.71	1362	0.54	1062	0.39						
1.4	1362	0.60	1066	0.44								
1.6	1066	0.50	789	0.34								
1.8	789	0.40										

AIRFLOW DATA — CPH036 (CONT.)

STANDARD DIRECT DRIVE — HORIZONTAL

CFM	STATIC	AMPS	WATTS	RPM	SPEED TAP
1296	0.1	1.67	356	764	Low
1245	0.2	1.60	334	830	
1174	0.3	1.56	325	861	
1103	0.4	1.52	316	891	
1013	0.5	1.46	300	935	
1502	0.1	2.10	456	836	Med
1449	0.2	2.06	444	864	
1396	0.3	2.02	432	891	
1335	0.4	1.97	418	916	
1273	0.5	1.91	404	940	
1153	0.6	1.83	380	973	
996	0.7	1.71	346	1017	High
1516	0.2	2.36	506	940	
1454	0.3	2.31	496	960	
1392	0.4	2.26	486	979	
1273	0.5	2.17	458	1006	
1183	0.6	2.09	441	1023	
1092	0.7	2.02	424	1039	
920	0.8	1.90	390	1067	

STANDARD DIRECT DRIVE — DOWN SHOT

CFM	STATIC	AMPS	WATTS	RPM	SPEED TAP
1287	0.1	1.66	350	770	Low
1233	0.2	1.63	342	815	
1176	0.3	1.59	332	858	
1107	0.4	1.55	320	891	
1044	0.5	1.51	312	924	
965	0.6	1.45	296	957	
1476	0.1	2.08	446	866	Med
1421	0.2	2.03	432	885	
1334	0.3	1.96	414	918	
1255	0.4	1.90	396	945	
1180	0.5	1.84	386	971	
1085	0.6	1.78	368	990	
964	0.7	1.70	344	1023	High
1455	0.3	2.31	490	962	
1367	0.4	2.25	476	984	
1277	0.5	2.16	454	1006	
1180	0.6	2.09	438	1025	
1080	0.7	2.02	418	1039	
922	0.8	1.90	386	1067	

SEE NOTES BELOW

AIRFLOW DATA — CPH048

STANDARD DIRECT DRIVE — HORIZONTAL

CFM	STATIC	AMPS	WATTS	RPM	SPEED TAP
1622	0.1	2.54	539	809	Low
1558	0.2	2.43	517	852	
1494	0.3	2.32	495	895	
1410	0.4	2.21	471	924	
1326	0.5	2.10	447	953	
1861	0.1	3.11	670	886	Med
1733	0.2	2.78	606	918	
1639	0.3	2.64	568	960	
1564	0.4	2.51	542	984	
1434	0.5	2.35	508	1017	
1320	0.6	2.25	482	1039	
1156	0.7	2.08	446	1067	High
1984	0.1	3.34	734	949	
1883	0.2	3.18	694	977	
1770	0.3	3.03	654	1001	
1656	0.4	2.87	620	1027	
1540	0.5	2.76	590	1044	
1415	0.6	2.62	558	1061	

STANDARD DIRECT DRIVE — DOWN SHOT

CFM	STATIC	AMPS	WATTS	RPM	SPEED TAP
1602	0.1	2.48	528	835	Low
1538	0.2	2.37	506	878	
1474	0.3	2.26	484	921	
1390	0.4	2.15	460	950	
1306	0.5	2.04	436	979	
1805	0.1	2.84	620	935	Med
1704	0.2	2.71	590	967	
1625	0.3	2.59	558	990	
1549	0.4	2.47	540	1012	
1437	0.5	2.38	516	1030	
1301	0.6	2.23	480	1050	
1158	0.7	2.09	444	1072	High
1971	0.1	3.22	706	968	
1828	0.2	3.03	664	998	
1744	0.3	2.94	632	1017	
1628	0.4	2.80	606	1034	
1510	0.5	2.69	582	1050	
1402	0.6	2.57	552	1067	

NOTES

- Assumes dry coil with filter in place; SCFM correction for wet coil = 4%
- Five-ton models are shipped from the factory with speed tap set on T4.

AIRFLOW DATA — CPH048 (CONT.)

STANDARD BELT DRIVE — HORIZONTAL

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									1943	0.52	1714	0.40
0.4					2187	0.72	1876	0.55	1566	0.40	1270	0.26
0.6			2044	0.72	1761	0.56	1444	0.40	1136	0.26		
0.8	1947	0.74	1704	0.59	1335	0.40						
1.0	1598	0.60	1275	0.36								
1.2	1208	0.45										

HIGH-STATIC BELT DRIVE — HORIZONTAL

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6									2056	0.72	1721	0.54
0.8							1996	0.77	1662	0.57	1328	0.40
1.0					1924	0.79	1603	0.61	1270	0.43		
1.2			1952	0.88	1559	0.64	1210	0.44				
1.4	1888	0.92	1543	0.70	1195	0.49						
1.6	1557	0.77	1180	0.54								
1.8	1192	0.60										

STANDARD BELT DRIVE — DOWN SHOT

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2							2129	0.64	1795	0.47	1550	0.35
0.4					1994	0.65	1701	0.49	1433	0.36	1163	0.22
0.6			1905	0.67	1606	0.50	1326	0.36	1025	0.22		
0.8	1808	0.69	1565	0.54	1216	0.36						
1.0	1473	0.55	1137	0.32								
1.2	1103	0.41										

HIGH STATIC BELT DRIVE — DOWN SHOT

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6							2194	0.85	1886	0.66	1580	0.49
0.8					2113	0.86	1832	0.70	1526	0.52	1219	0.37
1.0			2182	0.98	1776	0.73	1472	0.55	1166	0.39		
1.2	2053	1.00	1780	0.80	1440	0.59	1111	0.40				
1.4	1759	0.86	1421	0.64	1104	0.46						
1.6	1442	0.72	1095	0.50								
1.8	1095	0.56										

AIRFLOW DATA — CPH060

STANDARD DIRECT DRIVE MOTOR — HORIZONTAL

CFM	STATIC	AMPS	WATTS	RPM	SPEED TAP
1355	0.1	1.57	174	599	T1
1281	0.2	1.66	182	651	
1235	0.3	1.76	196	693	
1168	0.4	1.81	202	726	
1118	0.5	1.94	218	775	
1049	0.6	2.03	232	819	
982	0.7	2.10	240	858	
922	0.8	2.14	246	885	
871	0.9	2.25	260	927	
1544	0.1	2.04	234	660	T2
1490	0.2	2.17	250	704	
1427	0.3	2.25	260	742	
1370	0.4	2.35	276	781	
1319	0.5	2.42	282	809	
1274	0.6	2.52	296	849	
1210	0.7	2.62	316	891	
1137	0.8	2.73	326	935	
1106	0.9	2.77	336	957	
2099	0.1	4.13	516	825	T3
2068	0.2	4.25	536	852	
2029	0.3	4.37	552	885	
1971	0.4	4.48	568	913	
1911	0.5	4.61	586	950	
1876	0.6	4.73	604	973	
1821	0.7	4.86	622	1012	
1792	0.8	4.91	630	1028	
1740	0.9	5.03	648	1067	
2233	0.1	4.76	608	863	T4
2168	0.2	4.91	628	896	
2125	0.3	5.02	640	924	
2070	0.4	5.14	660	951	
2050	0.5	5.27	678	979	
1980	0.6	5.41	696	1012	
1954	0.7	5.47	704	1034	
1893	0.8	5.60	724	1067	
1852	0.9	5.70	736	1089	
2322	0.1	5.44	710	904	T5
2294	0.2	5.55	726	934	
2254	0.3	5.68	742	958	
2201	0.4	5.80	766	990	
2147	0.5	5.93	782	1017	
2117	0.6	6.01	788	1039	
2081	0.7	6.12	808	1060	
2017	0.8	6.22	822	1094	
1932	0.9	6.10	804	1111	

STANDARD DIRECT DRIVE MOTOR — DOWN SHOT

CFM	STATIC	AMPS	WATTS	RPM	SPEED TAP
1334	0.1	1.65	180	627	T1
1286	0.2	1.75	192	665	
1212	0.3	1.83	202	715	
1144	0.4	1.94	216	759	
1077	0.5	1.99	222	792	
1039	0.6	2.10	238	830	
953	0.7	2.17	248	874	
904	0.8	2.27	258	913	
825	0.9	2.30	266	940	
1512	0.1	2.12	240	682	T2
1469	0.2	2.24	254	720	
1397	0.3	2.31	264	759	
1333	0.4	2.44	282	803	
1285	0.5	2.54	296	836	
1221	0.6	2.59	304	874	
1173	0.7	2.72	322	913	
1118	0.8	2.77	328	946	
1049	0.9	2.90	344	984	
2053	0.1	4.27	540	869	T3
2014	0.2	4.39	558	896	
1999	0.3	4.60	576	929	
1947	0.4	4.68	588	957	
1897	0.5	4.79	608	989	
1857	0.6	4.87	620	1012	
1763	0.7	4.99	640	1050	
1741	0.8	5.06	650	1072	
1669	0.9	5.19	668	1105	
2137	0.1	4.95	634	913	T4
2093	0.2	5.07	652	940	
2095	0.3	5.19	670	962	
2026	0.4	5.28	682	990	
1980	0.5	5.40	698	1018	
1961	0.6	5.49	720	1039	
1914	0.7	5.58	732	1072	
1845	0.8	5.70	742	1100	
1766	0.9	5.69	740	1127	
2299	0.1	5.70	742	942	T5
2233	0.2	5.80	748	969	
2217	0.3	5.90	768	990	
2157	0.4	6.07	786	1018	
2131	0.5	6.12	804	1045	
2060	0.6	6.21	816	1073	
2015	0.7	6.30	820	1095	
1940	0.8	6.27	816	1111	
1862	0.9	6.13	790	1128	

NOTES

- Assumes dry coil with filter in place; SCFM correction for wet coil = 4%
- Five-ton models are shipped from the factory with speed tap set on T4.

AIRFLOW DATA — CPH060 (CONT.)

STANDARD BELT DRIVE — HORIZONTAL

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									2420	0.79	2198	0.64
0.4					2605	1.02	2358	0.84	2133	0.67	1874	0.52
0.6			2526	1.06	2300	0.88	2026	0.70	1806	0.55		
0.8	2529	1.15	2252	0.93	1975	0.73	1670	0.54				
1.0	2233	0.99	1943	0.78	1628	0.57						
1.2	1907	0.83	1582	0.61								

HIGH-STATIC BELT DRIVE — HORIZONTAL

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6											2323	0.92
0.8									2315	1.00	2009	0.77
1.0							2308	1.09	1992	0.84	1666	0.60
1.2					2338	1.21	1992	0.92	1646	0.66		
1.4			2359	1.32	2025	1.02	1648	0.72				
1.6	2404	1.45	2056	1.13	1684	0.82						
1.8	2088	1.24	1722	0.92								

STANDARD BELT DRIVE — DOWN SHOT

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2					2579	1.01	2368	0.85	2175	0.69	1961	0.55
0.4			2513	1.05	2318	0.89	2089	0.73	1906	0.59	1666	0.44
0.6	2514	1.14	2276	0.94	2045	0.77	1797	0.60	1604	0.47		
0.8	2261	1.01	2017	0.82	1760	0.63						
1.0	1989	0.87	1730	0.68								
1.2	1695	0.72										

HIGH-STATIC BELT DRIVE — DOWN SHOT

ESP (" W.C.)	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6									2331	1.01	2072	0.80
0.8							2324	1.10	2059	0.87	1791	0.66
1.0					2350	1.21	2058	0.95	1774	0.72		
1.2			2367	1.33	2086	1.06	1776	0.79				
1.4	2404	1.45	2111	1.17	1805	0.89						
1.6	2136	1.28	1835	0.99								
1.8	1868	1.10										

AIRFLOW DATA — CPH072

CPH072 STANDARD BELT DRIVE — HORIZONTAL

ESP ("W.C.)	0 TURNS		1 TURN		2 TURNS		3 TURNS		4 TURNS		5 TURNS	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2							2784	1.30	2582	0.83	2411	0.79
0.4					2814	1.34	2620	1.19	2342	0.72	2105	0.66
0.6			2665	1.34	2583	1.19	2398	1.06	2103	0.62	1902	0.57
0.8	2689	1.38	2492	1.22	2370	1.07	2142	0.91	1816	0.51		
1.0	2438	1.22	2275	1.09	2098	0.92	1883	0.78				
1.2	2250	1.10	1996	0.92								

CPH072 STANDARD BELT DRIVE — DOWN SHOT

ESP ("W.C.)	0 TURNS		1 TURN		2 TURNS		3 TURNS		4 TURNS		5 TURNS	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2					2771	1.27	2567	1.05	2421	0.88	2220	0.71
0.4			2753	1.38	2573	1.15	2382	0.95	2186	0.77	1980	0.61
0.6	2655	1.42	2548	1.24	2360	1.02	2119	0.81	1934	0.65		
0.8	2470	1.30	2331	1.11	2111	0.89	1868	0.69				
1.0	2296	1.18	2078	0.96	1840	0.75						
1.2	2040	1.02										

CPH072 HIGH STATIC BELT DRIVE — HORIZONTAL

ESP ("W.C.)	0 TURNS		1 TURN		2 TURNS		3 TURNS		4 TURNS		5 TURNS	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6									2746	1.38	2515	1.12
0.8							2721	1.47	2494	1.21	2261	0.97
1.0					2689	1.56	2500	1.32	2255	1.06	1994	0.83
1.2			2752	1.74	2473	1.40	2252	1.15	1996	0.91		
1.4	2802	1.88	2487	1.53	2286	1.27	2037	1.02				
1.6	2553	1.67	2308	1.40	1997	1.08						
1.8	2355	1.51	2014	1.19								
2.0	2055	1.29										

CPH072 HIGH STATIC BELT DRIVE — DOWN SHOT

ESP ("W.C.)	0 TURNS		1 TURN		2 TURNS		3 TURNS		4 TURNS		5 TURNS	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6					2793	1.64	2603	1.39	2450	1.18	2270	0.97
0.8			2903	1.87	2696	1.57	2369	1.23	2236	1.05	1987	0.82
1.0	2776	1.86	2682.5	1.69	2445	1.38	2196	1.12	1968	0.90		
1.2	2599	1.71	2539	1.57	2310	1.29	1932	0.96				
1.4	2424	1.57	2305	1.40	2032	1.11						
1.6	2172	1.38	2017	1.19								
1.8	1953	1.22										

HEAT KIT ELECTRICAL DATA — 3 TONS

MODEL AND HEAT KIT USAGE	MCA ¹ @ 208 / 240V	MOP ² (AMPS) @ 208 / 240V	ACTUAL KW & BTU @ 240V	RECOMMENDED AIRFLOW RANGE
CPH036***1D***	25	40		
EHK1-10	67 / 77	70 / 80	10	1250-1350 CFM
EHK1-15	89 / 103	90 / 110	15	1400-1440 CFM
CPH036***3D***	17	25		
EHK3-10	41 / 47	45 / 50	10	1250-1350 CFM
EHK3-15	54 / 62	60 / 70	15	1400-1440 CFM
CPH036***3B***	18	25		
EHK3-10	42 / 48	45 / 50	10	1250-1350 CFM
EHK3-15	55 / 63	60 / 70	15	1400-1440 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 480V	MOP ² (AMPS) @ 480V	ACTUAL KW & BTU @ 480V	RECOMMENDED AIRFLOW RANGE
CPH036***4B***	10	15		
EHK4-10	25	25	10	1250-1350 CFM
EHK4-15	33	35	15	1400-1440 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 575V	MOP ² (AMPS) @ 575V	ACTUAL KW & BTU @ 575V	RECOMMENDED AIRFLOW RANGE
CPH036***7B***	8	15		
EHK7-10	20	25	10	1400-1475 CFM
EHK7-15	26	30	15	1575-1650 CFM

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection device

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			
ACTUAL 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	MINIMUM CFM	
	A MODELS	B MODELS
10 kW	1,250	1,250
15 kW	1,400	1,250

HEAT KIT ELECTRICAL DATA — 4 TONS

MODEL AND HEAT KIT USAGE	MCA ¹ @ 208 / 240V	MOP ² (AMPS) @ 208 / 240V	ACTUAL kW & BTU @ 240V	RECOMMENDED AIRFLOW RANGE
CPH048***1D***	29	45		
EHK1-10	70 / 81	80 / 90	10	1400-1800 CFM
EHK1-15	93 / 107	100 / 110	15	1575-1800 CFM
EHK1-18	107 / 123	110 / 125	18	1575-1800 CFM
CPH048***3D***	21	30		
EHK3-10	44 / 51	45 / 60	10	1400-1800 CFM
EHK3-15	57 / 66	60 / 70	15	1575-1800 CFM
EHK3-18	65 / 75	70 / 80	18	1575-1800 CFM
CPH048***3B***	22	30		
EHK3-10	45 / 52	45 / 60	10	1400-1800 CFM
EHK3-15	58 / 67	60 / 70	15	1575-1800 CFM
EHK3-18	66 / 76	70 / 80	18	1575-1800 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 480V	MOP ² (AMPS) @ 480V	ACTUAL kW & BTU @ 480V	RECOMMENDED AIRFLOW RANGE
CPH048***4B***	10	15		
EHK4-10	25	30	10	1400-1800 CFM
EHK4-15	33	35	15	1575-1800 CFM
EHK4-18	37	40	18	1575-1800 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 575V	MOP ² (AMPS) @ 575V	ACTUAL kW & BTU @ 575V	RECOMMENDED AIRFLOW RANGE
CPH048***7B***	8	15		
EHK7-10	21	25	10	1400-1800 CFM
EHK7-15	27	30	15	1575-1800 CFM
EHK7-18	31	35	18	1575-1800 CFM

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection device

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			
ACTUAL VOLTAGE	460	440	430
CORRECTION FACTOR	0.92	0.84	0.8

For other voltage use voltage² / 480²

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

HEAT KIT ELECTRICAL DATA — 5 TONS

MODEL AND HEAT KIT USAGE	MCA ¹ @ 208 / 240V	MOP ² (AMPS) @ 208 / 240V	ACTUAL kW & BTU @ 240V	RECOMMENDED AIRFLOW RANGE
CPH060***1D***	42	60		
EHK1-10	82 / 94	90 / 110	10	1750-2250 CFM
EHK1-15	104 / 120	110 / 125	15	1750-2250 CFM
EHK1-20	127 / 146	150 / 150	20	1850-2250 CFM
CPH060***3D***	29	45		
EHK3-10	51 / 59	60 / 60	10	1750-2250 CFM
EHK3-15	64 / 74	70 / 80	15	1750-2250 CFM
EHK3-20	77 / 89	80 / 90	20	1850-2250 CFM
CPH060***3B***	25	40		
EHK3-10	48 / 55	50 / 60	10	1750-2250 CFM
EHK3-15	61 / 70	70 / 80	15	1750-2250 CFM
EHK3-20	74 / 85	80 / 90	20	1850-2250 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 480V	MOP ² (AMPS) @ 480V	ACTUAL kW & BTU @ 480V	RECOMMENDED AIRFLOW RANGE
CPH060***4B***	12	20		
EHK4-10	27	30	10	1750-2250 CFM
EHK4-15	35	40	15	1750-2250 CFM
EHK4-20	43	45	20	1850-2250 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 575V	MOP ² (AMPS) @ 575V	ACTUAL kW & BTU @ 575V	RECOMMENDED AIRFLOW RANGE
CPH060***7B***	10	15		
EHK7-10	23	25	10	1750-2250 CFM
EHK7-15	29	30	15	1750-2250 CFM
EHK7-20	35	40	20	1850-2250 CFM

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection Device

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			
ACTUAL 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	MINIMUM CFM	
	A MODELS	B MODELS
10	1,750	1,700
15	1,750	1,700
20	1,850	1,880

HEAT KIT ELECTRICAL DATA — 6 TONS

MODEL AND HEAT KIT USAGE	MCA ¹ @ 208 / 240V	MOP ² (AMPS) @ 208 / 240V	ACTUAL KW & BTU @ 240V	RECOMMENDED AIRFLOW RANGE
CPH072XX3B***	31	45		
EHK3-10	61	70	10	2,100 - 2,700 CFM
EHK3-15	76	80	15	2,100 - 2,700 CFM
EHK3-20	91	100	20	2,100 - 2,700 CFM
EHK3-25	106	110	25	2,100 - 2,700 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 480V	MOP ² (AMPS) @ 480V	ACTUAL KW & BTU @ 480V	RECOMMENDED AIRFLOW RANGE
CPH072XX4B***	16	25		
EHK4-10	31	35	10	2,100 - 2,700 CFM
EHK4-15	38	40	15	2,100 - 2,700 CFM
EHK4-20	46	50	20	2,100 - 2,700 CFM
EHK4-25	53	60	25	2,100 - 2,700 CFM

MODEL AND HEAT KIT USAGE	MCA ¹ @ 575V	MOP ² (AMPS) @ 575V	ACTUAL KW & BTU @ 575V	RECOMMENDED AIRFLOW RANGE
CPH072XX7B***	13	15		
EHK7-10	25	30	10	2,100 - 2,700 CFM
EHK7-15	31	35	15	2,100 - 2,700 CFM
EHK7-20	38	40	20	2,100 - 2,700 CFM
EHK7-25	44	45	25	2,100 - 2,700 CFM

¹ Minimum Circuit Ampacity

² Maximum Overcurrent Protection Device

Note: All heaters have single-point entry kit

KW CORRECTION FACTOR FOR 1- & 3-PHASE UNITS

Supply Voltage	240	230	220	210
Correction Factor	1	0.92	0.84	0.77

KW CORRECTION FACTOR FOR 480V UNITS

Actual 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

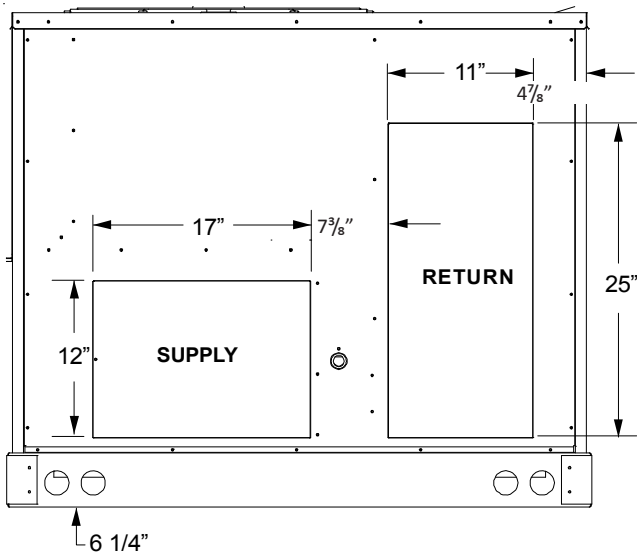
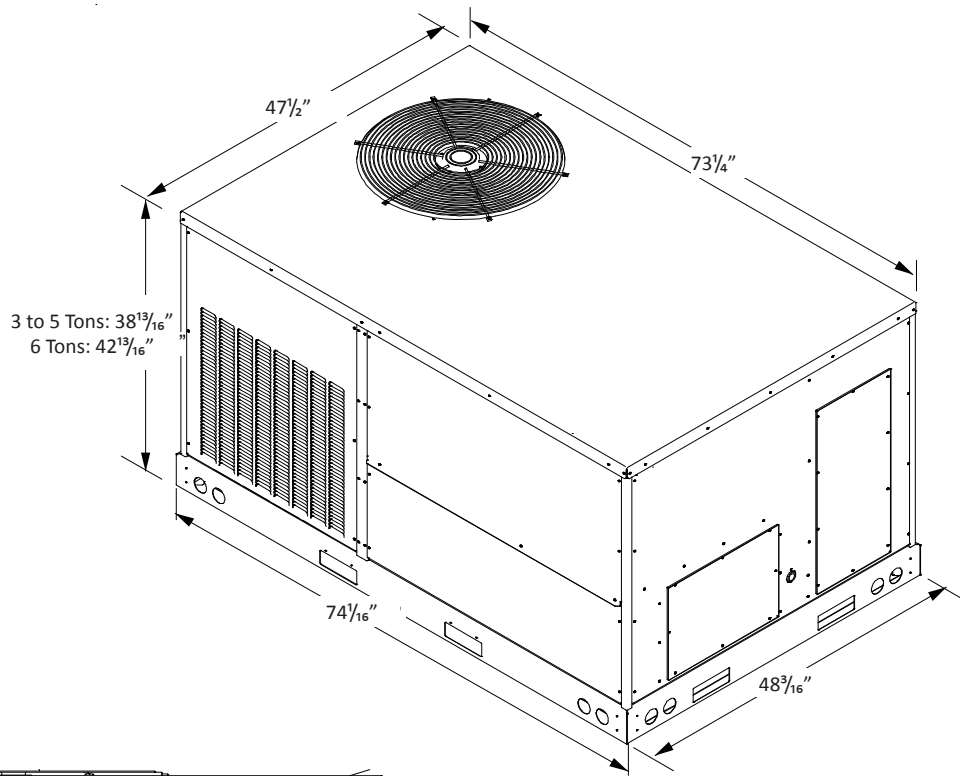
Supply Voltage	560	550	540
Correction Factor	0.95	0.91	0.88

Multiply rated kW by correction factor to get actual kW.

MINIMUM AIRFLOW FOR ELECTRIC HEAT

HEATER SIZE	MINIMUM CFM
10	2,100
15	2,100
20	2,100
25	2,100

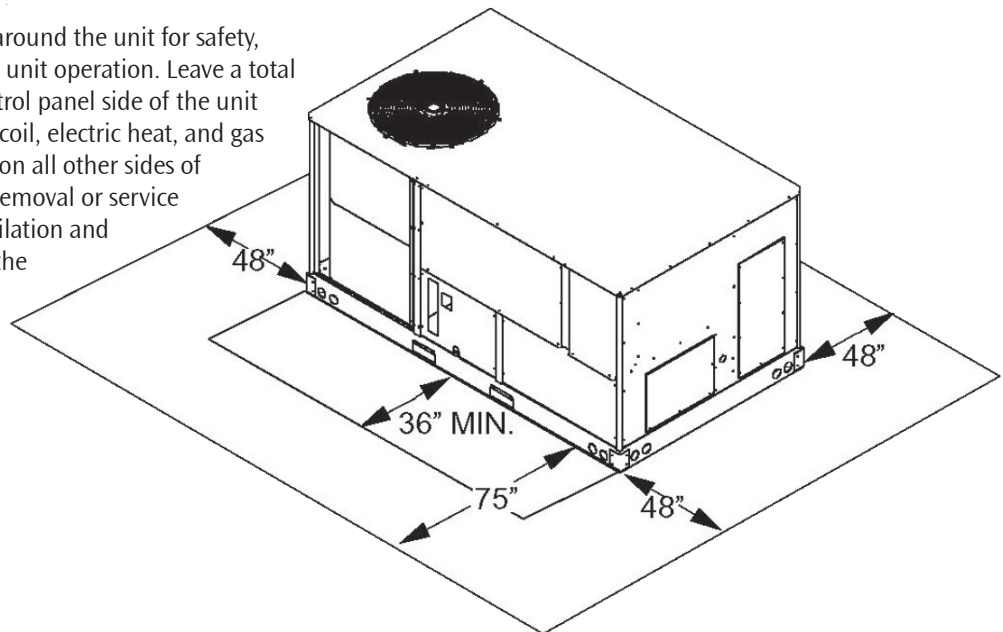
DIMENSIONS



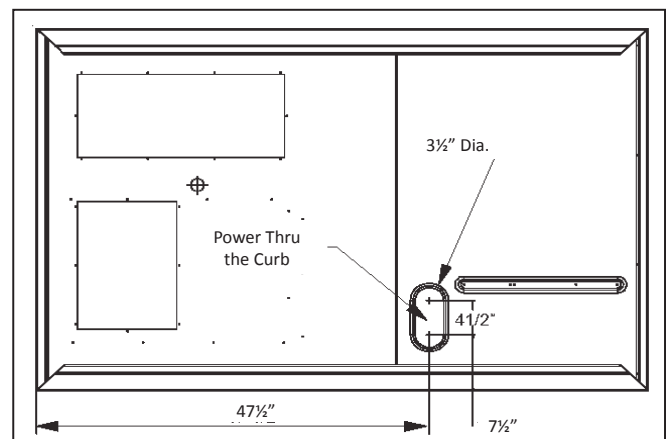
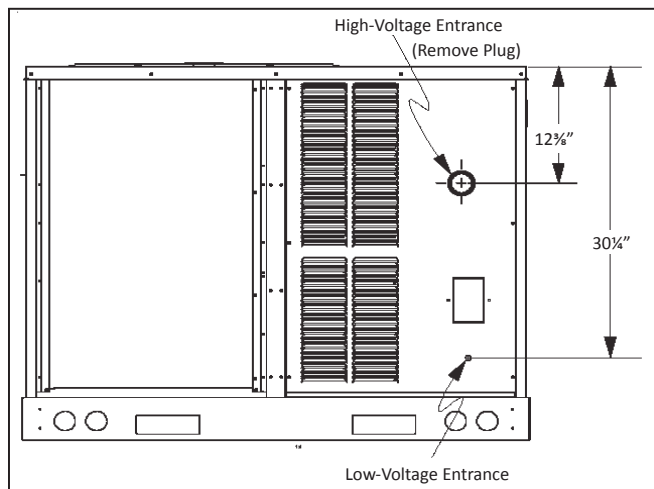
Horizontal Discharge

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.

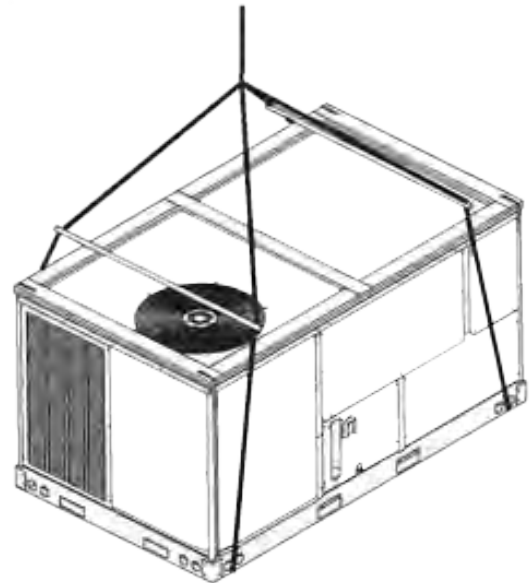
Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

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

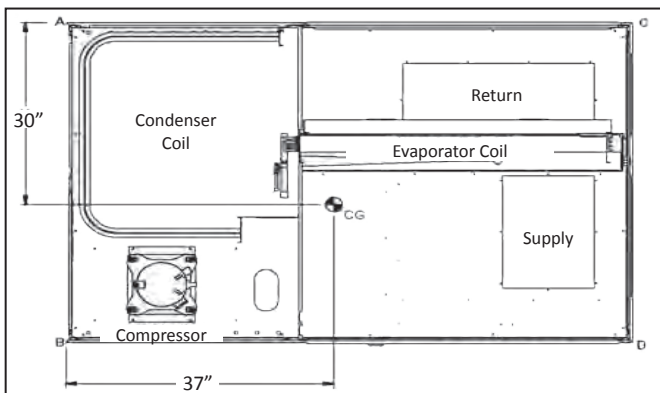
Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

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.

To assist in determining rigging requirements, unit weights are shown below.



CORNER & CENTER-OF-GRAVITY LOCATIONS



UNIT WEIGHTS	3-TON WEIGHTS	4-TON WEIGHTS	5-TON WEIGHTS	6-TON WEIGHTS
Corner Weight (A)	125	125	140	145
Corner Weight (B)	170	170	180	205
Corner Weight (C)	105	105	110	125
Corner Weight (D)	145	145	135	175
Unit Shipping Weight	570	570	590	675
Unit Operating Weight	545	545	565	650

Note: 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.

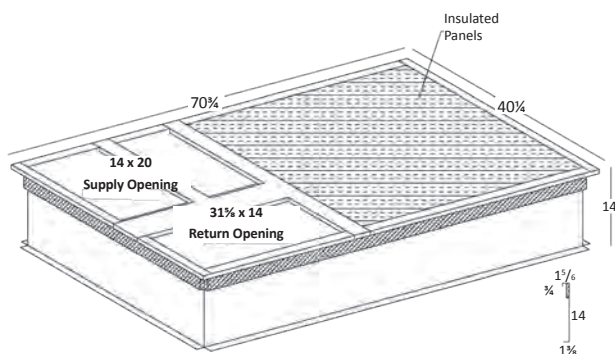
Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory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

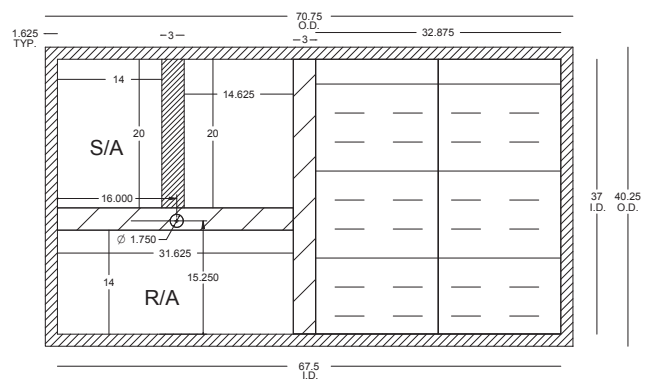
Note: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

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

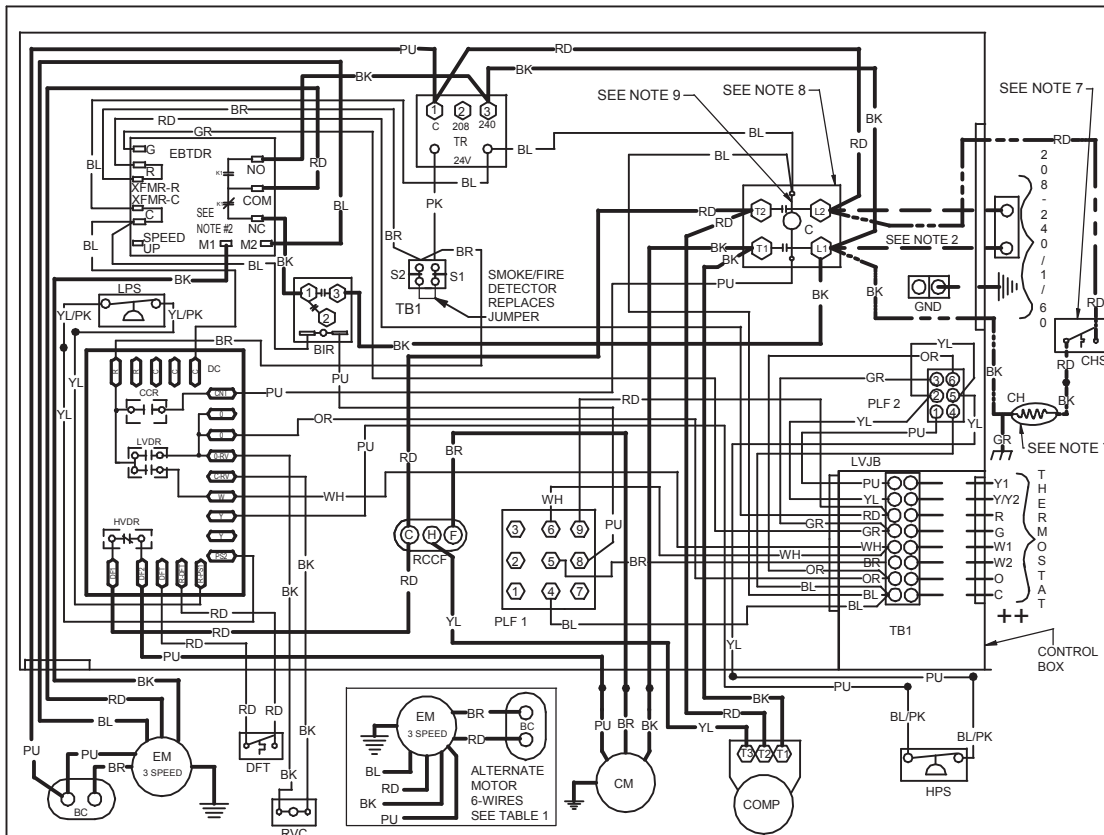
3-D VIEW



TOP VIEW



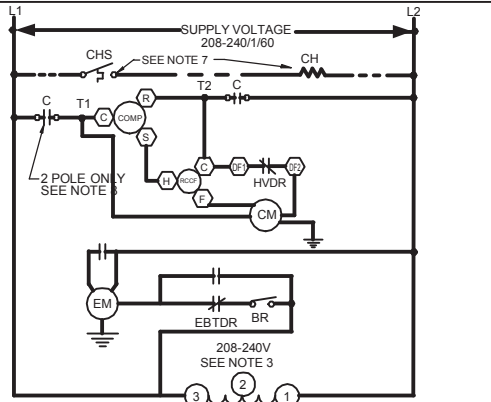
WIRING DIAGRAM — CPH036-48***1D*** (SINGLE-PHASE DIRECT DRIVE)



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.



COMPONENT LEGEND

BIR	BLOWER INTERLOCK RELAY
C	CONTACTOR
CCR	COMPRESSOR CONTACTOR RELAY
CH	CRANKCASE HEATER
CHS	CRANKCASE HEATER SWITCH
CM	CONDENSER MOTOR
COMP	COMPRESSOR
DC	DEFROST CONTROL
DFT	DEFROST THERMOSTAT
ECON	ECONOMIZER
EM	EVAPORATOR MOTOR
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
PLF	FEMALE PLUG / CONNECTOR
RVC	REVERSING VALVE COIL
RCCF	RUN CAPACITOR FOR CONDENSER FAN
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER
BC	BLOWER CAPACITOR

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

(1)	— WH —	W
(2)	— GR —	G
(3)	— RD —	R
(4)	— YL —	Y2
(5)	— BL —	C
(6)	— OR —	O
(7)	— OR —	STAT

WITH ECONOMIZER OPTION

(1)	— WH —	W
(2)	— GR —	G
(3)	— RD —	R
(4)	— YL —	Y
(5)	— BL —	C
(6)	— OR —	O
(7)	— OR —	STAT

2 STAGE COOLING

(1)	— WH —	W
(2)	— GR —	G
(3)	— RD —	R
(4)	— YL —	Y1
(5)	— YL —	Y2
(6)	— BL —	C
(7)	— OR —	O
(8)	— OR —	STAT

- NOTES:**
- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
 - TO CHANGE EVAPORATOR MOTOR SPEED MOVE M1 OR M2 WIRE TO COM TERMINAL ON EBTDR AND PLACE WIRE REMOVED FROM COM ON EMPTY M1 OR M2 TERMINAL.
 - FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 - USE COPPER CONDUCTORS ONLY. ++ USE N.E.C. CLASS 2 WIRE
 - ECONOMIZER PLUG LOCATED IN RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH TO ECONOMIZER ACCESSORY.
 - DIAGRAM SHOWS FACTORY SPEED TAP SETTINGS.
 - CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
 - DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
 - COMMON SIDE OF CONTACTOR CAN NOT BE GROUNDED OR CONNECTED TO ANY OTHER COMMON (24V).

TABLE 1

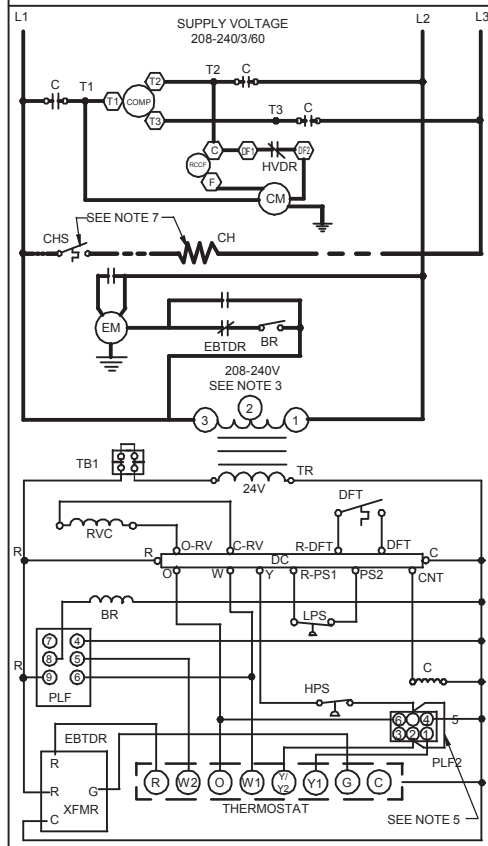
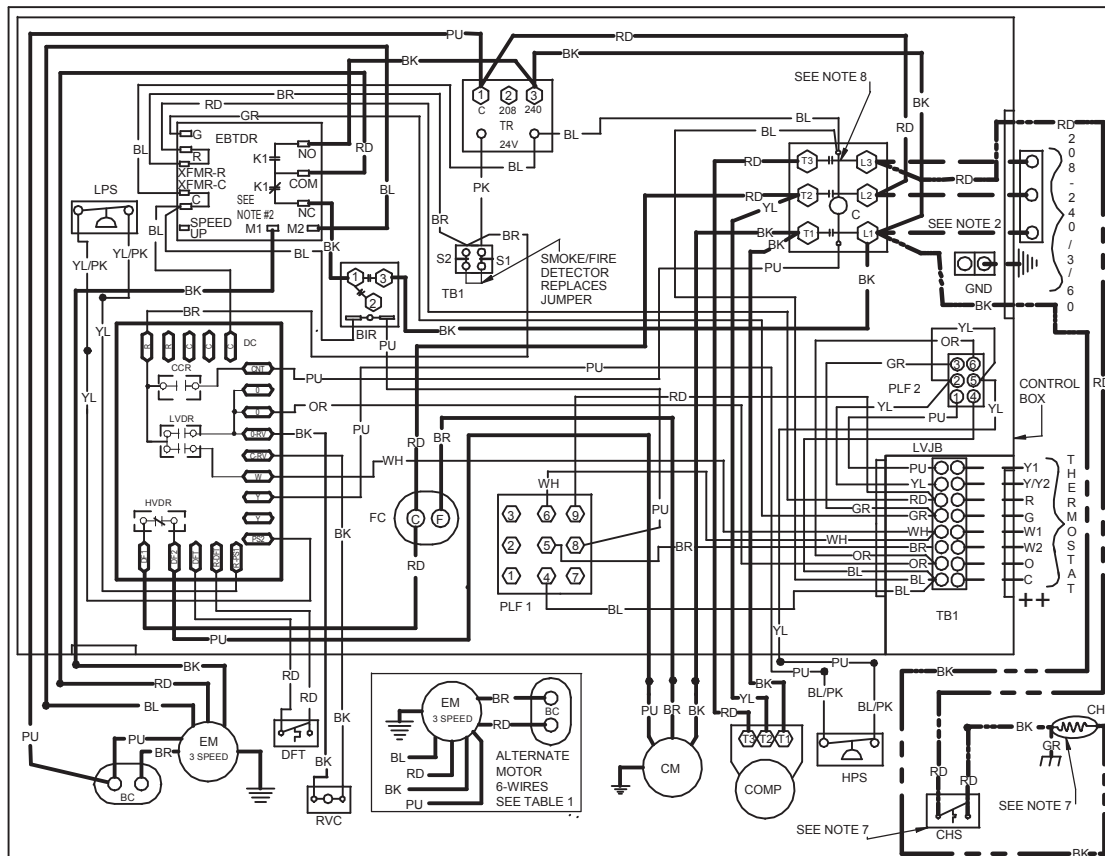
ALTERNATE MOTOR WIRING	COLOR	TERMINATION
RD	COM (EBTDR)	
BK	M1 (EBTDR)	
BL	M2 (EBTDR)	
PU	PIN 1 (24V XFMR)	

TABLE 2

SPEED TAPS	RD	LOW
	BL	MED
	BK	HIGH

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION
208-240/1/60 0140L01060-B

WIRING DIAGRAM — CPH036-48***3D*** (THREE-PHASE DIRECT DRIVE)



COMPONENT LEGEND

BIR BLOWER INTERLOCK RELAY
 C CONTACTOR
 CCR COMPRESSOR CONTACTOR RELAY
 CH CRANKCASE HEATER
 CHS CRANKCASE HEATER SWITCH
 CM CONDENSER MOTOR
 COMP COMPRESSOR
 DC DEFROST CONTROL
 DFT DEFROST THERMOSTAT
 ECON ECONOMIZER
 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
 PLF FEMALE PLUG / CONNECTOR
 RVC REVERSING VALVE COIL
 TB1 TERMINAL BLOCK (24V SIGNAL)
 TR TRANSFORMER
 BC BLOWER CAPACITOR

NOTES:

- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
- TO CHANGE EVAPORATOR MOTOR SPEED MOVE M1 OR M2 WIRE TO COM TERMINAL ON EBTDR AND PLACE WIRE REMOVED FROM COM ON EMPTY M1 OR M2 TERMINAL.
- FOR 208V TRANSFORMER OPERATION MOVE BK WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER. 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 ECONOMIZER ACCESSORY.
- DIAGRAM SHOWS FACTORY SPEED TAP SETTINGS.
- CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
- COMMON SIDE OF CONTACTOR CAN NOT BE GROUNDED OR CONNECTED TO AN Y OTHER COMMON (24V).

TABLE 1
 ALTERNATE MOTOR WIRING
 COLOR TERMINATION
 RD (COM) (EBTDR)
 BK M1 (EBTDR)
 BL M2 (EBTDR)
 PU PIN 1 (24V XFMR)

TABLE 2
 SPEED TAPS
 RD LOW
 BL MED
 BK HIGH

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

208-240/3/60 0140L01061-B

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

TB1
 1 - WH - W
 2 - GR - G
 3 - RD - R
 4 - YL - Y2
 5 - BL - C
 6 - OR - O
 STAT

WITH ECONOMIZER OPTION

TB1
 1 - WH - W
 2 - GR - G
 3 - RD - R
 4 - YL - Y
 5 - BL - C
 6 - OR - O
 STAT

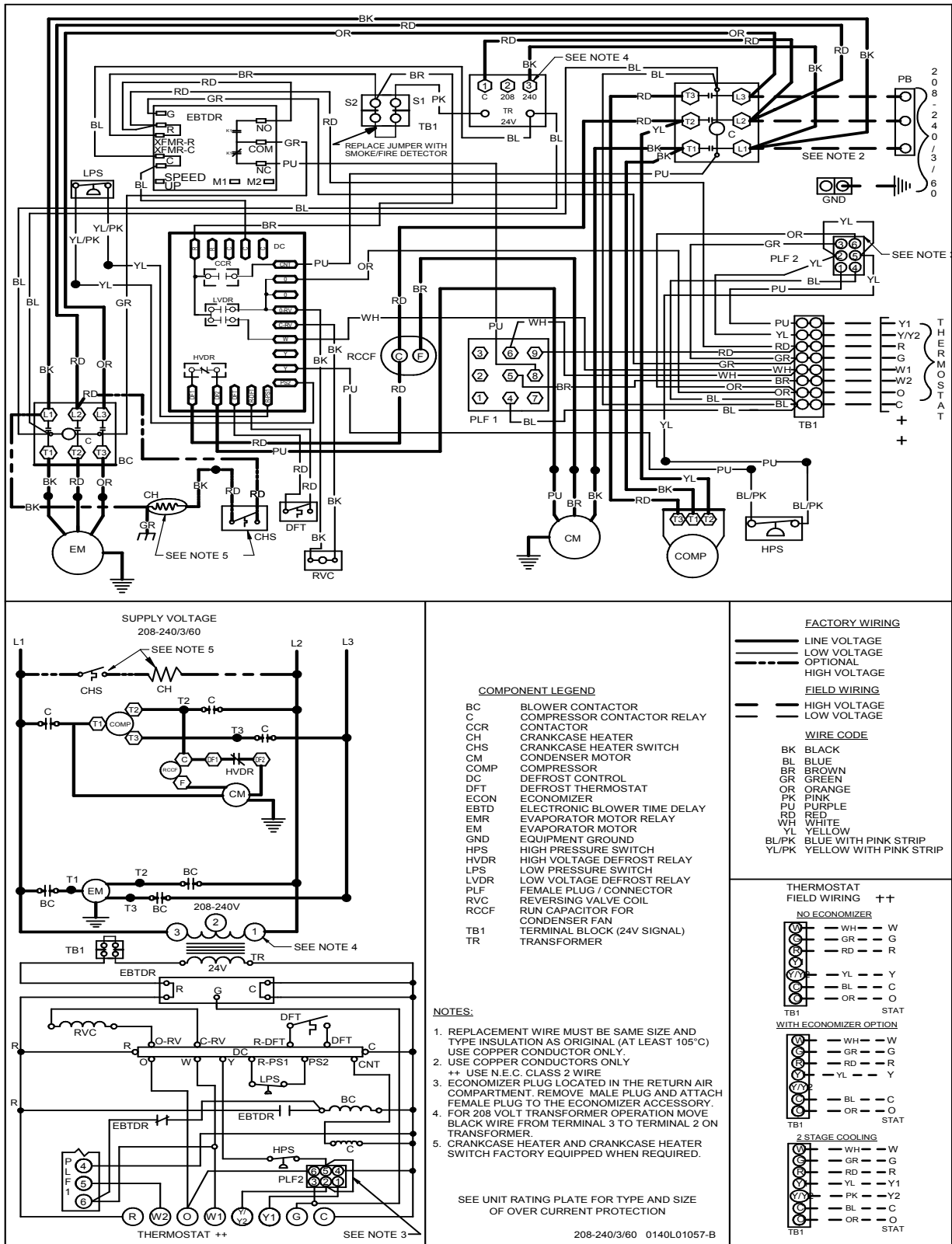
2 STAGE COOLING

TB1
 1 - WH - W
 2 - GR - G
 3 - RD - R
 4 - YL - Y1
 5 - PK - Y2
 6 - BL - C
 7 - OR - O
 STAT

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.

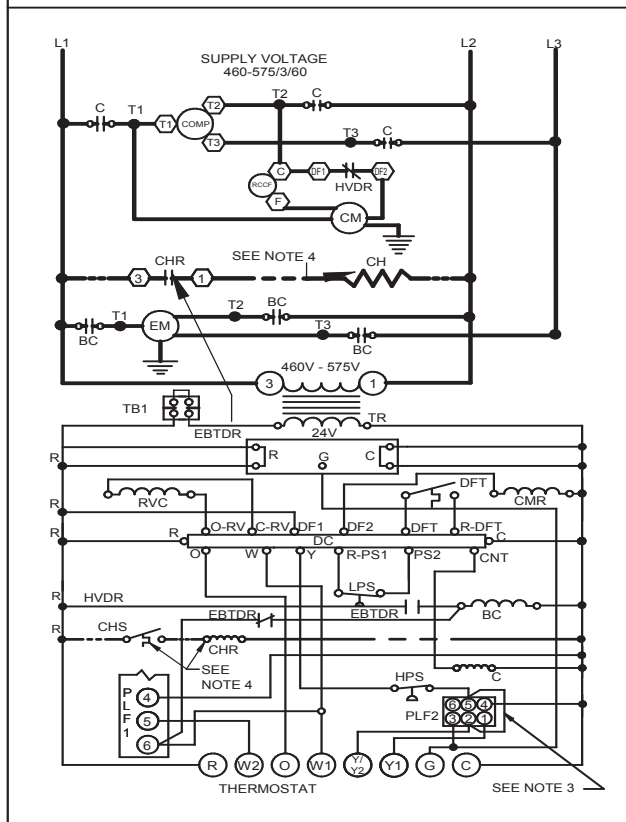
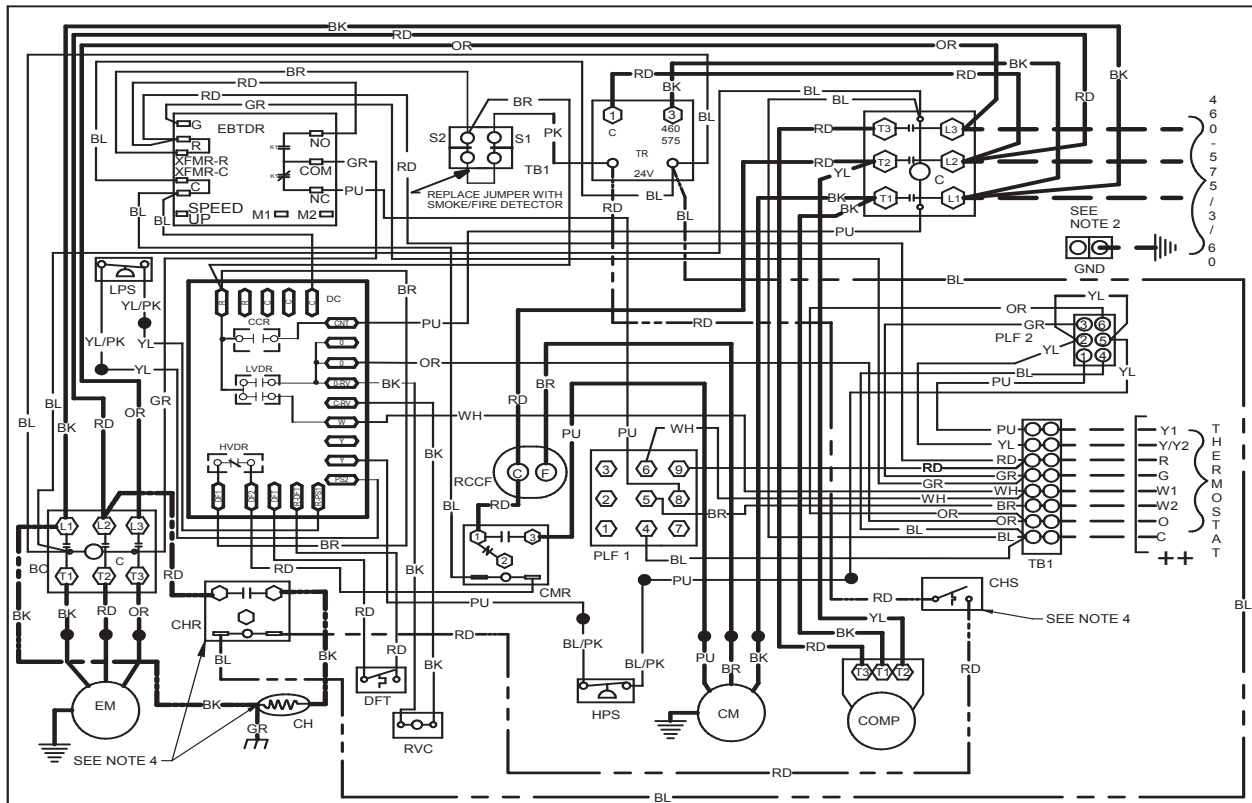
WIRING DIAGRAM — CPH36-72***3B*** (THREE PHASE, BELT DRIVE)



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 — CPH036-72***4B/7B*** (460V/ 575V, BELT DRIVE)



COMPONENT LEGEND

BC	BLOWER CONTACTOR
C	CONTACTOR
CCR	COMPRESSOR CONTACTOR RELAY
CH	CRANKCASE HEATER
CHS	CRANKCASE HEATER SWITCH
CHR	CRANKCASE HEATER RELAY
CM	CONDENSER MOTOR
CMR	CONDENSER MOTOR RELAY
COMP	COMPRESSOR
DC	DEFROST CONTROL
DFT	DEFROST THERMOSTAT
ECON	ECONOMIZER
EBTD	ELECTRONIC BLOWER TIME DELAY
EMR	EVAPORATOR MOTOR RELAY
EM	EVAPORATOR MOTOR
GND	EQUIPMENT GROUND
HPS	HIGH PRESSURE SWITCH
HVDR	HIGH VOLTAGE DEFROST RELAY
LPS	LOW PRESSURE SWITCH
LVDR	LOW VOLTAGE DEFROST RELAY
PLF	FEMALE PLUG / CONNECTOR
RVC	REVERSING VAVLE COIL
RCCF	RUN CAPACITOR FOR CONDENSER FAN
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER

- 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.
 - CRANKCASE HEATER, CRANKCASE HEATER RELAY, AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
- SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

FACTORY WIRING

— LINE VOLTAGE
— LOW VOLTAGE
— HIGH VOLTAGE
- - - OPTIONAL LOW 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

1	WH	W
2	GR	G
3	RD	R
4	YL	Y
5	BL	C
6	OR	O

TB1 STAT

WITH ECONOMIZER OPTION

1	WH	W
2	GR	G
3	RD	R
4	YL	Y
5	BL	C
6	OR	O

TB1 STAT

2 STAGE COOLING

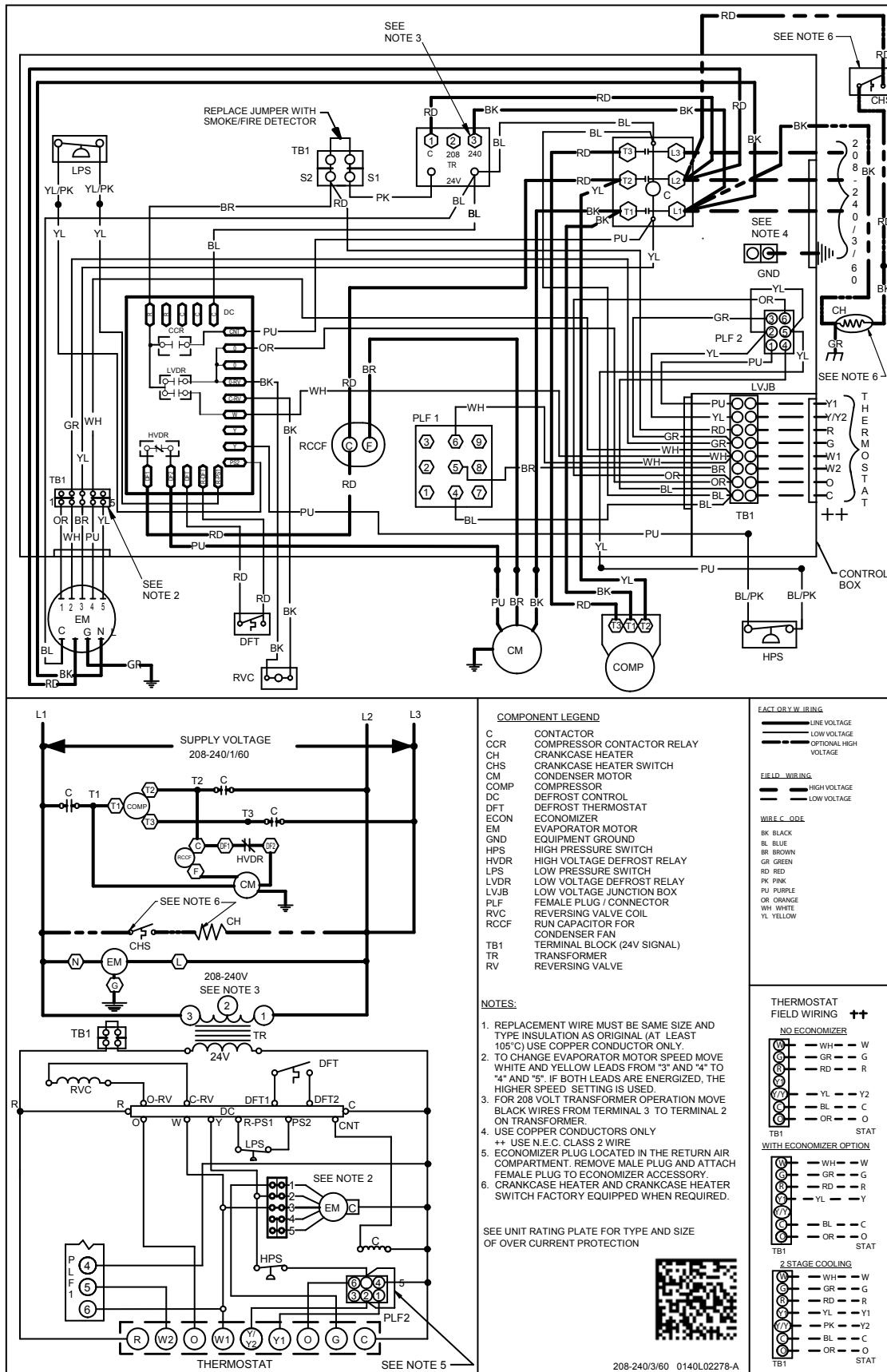
1	WH	W
2	GR	G
3	RD	R
4	YL	Y1
5	PK	Y2
6	BL	C
7	OR	O

TB1 STAT

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 — CPH060***3D*** (THREE-PHASE, DIRECT DRIVE)



COMPONENT LEGEND

- C CONTACTOR
- CCR COMPRESSOR CONTACTOR RELAY
- CH CRANKCASE HEATER
- CHS CRANKCASE HEATER SWITCH
- CM CONDENSER MOTOR
- COMP COMPRESSOR
- DC DEFROST CONTROL
- DFT DEFROST THERMOSTAT
- ECON ECONOMIZER
- EM EVAPORATOR MOTOR
- 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
- PLF FEMALE PLUG / CONNECTOR
- RCCF REVERSING VALVE COIL
- RVC REVERSING VALVE FOR CONDENSER FAN
- TB1 TERMINAL BLOCK (24V SIGNAL)
- TR TRANSFORMER
- RV REVERSING VALVE

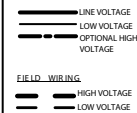
NOTES:

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE WHITE AND YELLOW LEADS FROM "3" AND "4" TO "4" AND "5". IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. USE COPPER CONDUCTORS ONLY
5. ++ USE N.E.C. CLASS 2 WIRE
6. ECONOMIZER PLUG LOCATED IN THE RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO ECONOMIZER ACCESSORY.
7. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.

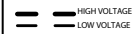
SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION



FACTORY WIRING



FIELD WIRING

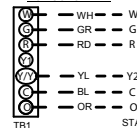


WIRE CODE

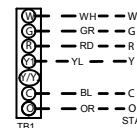
- BK BLACK
- BL BLUE
- BR BROWN
- GR GREEN
- RD RED
- PK PINK
- PU PURPLE
- OR ORANGE
- WH WHITE
- YL YELLOW

THERMOSTAT FIELD WIRING ++

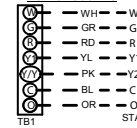
NO ECONOMIZER



WITH ECONOMIZER OPTION



2 STAGE COOLING



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.

ACCESSORIES

FIELD ACCESSORY ITEM #	DESCRIPTION	FITS MODEL SIZES	FIELD- INSTALLED	FACTORY- INSTALLED
14CURB3672B	14" Roof Curb	3-6 tons	√	
25FD3672	25% Manual Fresh Air Damper	3-6 tons	√	
25MFD3672	25% Motorized Fresh Air Damper	3-6 tons	√	
DNBBS3672B	Burglar Bar Sleeves Includes Supply & Return	3-6 tons	√	
CDK36	Concentric Duct Kit	3 tons	√	
CDK4872	Concentric Duct Kit	4-6 tons	√	
HAILGD03	Condenser Coil Hail Guard	3-5 tons	√	
HAILGD04	Condenser Coil Hail Guard	6 tons	√	
	Convenience Outlet: Non Powered	All Models		√
	Convenience Outlet: Powered	All Models		√
	Disconnect Switch (non-fused)	All Models		√
DNECONHP3672B	Downflow Economizer	3-6 tons	√	√
DNSQRRND36B	Downflow Square-to-Round Adapter 16" Round	3 tons	√	
DNSQRRND4872B	Downflow Square-to-Round Adapter 18" Round	4-6 tons	√	
	Electric Heat Kits	All Models	√	√
HSKT036B	High-Static Kit (230/460v)	3 tons	√	
HSKT048B	High-Static Kit (230/460v)	4 tons	√	
HSKT060B	High-Static Kit (230/460v)	5 tons	√	
HSKT072B	High-Static Kit (230/460v)	6 tons	√	
BRD3672	Horizontal Barometric Relief Damper	3-6 tons	√	
HZECONHP3672B	Horizontal Economizer	3-6 tons	√	
GHRC-1	Hurricane Restraint Clip	All Models	√	
LAKT01	Low-Ambient Kit	3-6 tons	√	√
PE36722B	Power Exhaust 208/230 Volt	3-6 tons	√	
PE36724B	Power Exhaust 460 Volt	3-6 tons	√	
	Smoke Detector	All Models		√
	Stainless-Steel Heat Exchanger (Type 409)	All Models		√

