

**577E--E Ultra Low NOx
Preferred™ 16 SEER 2-Stage Packaged Air
Conditioner and Single Stage Gas Furnace System
with Puron® (R-410A) Refrigerant
Single and Three Phase
2 to 5 Nominal Tons (Sizes 24-60)**



Product Data

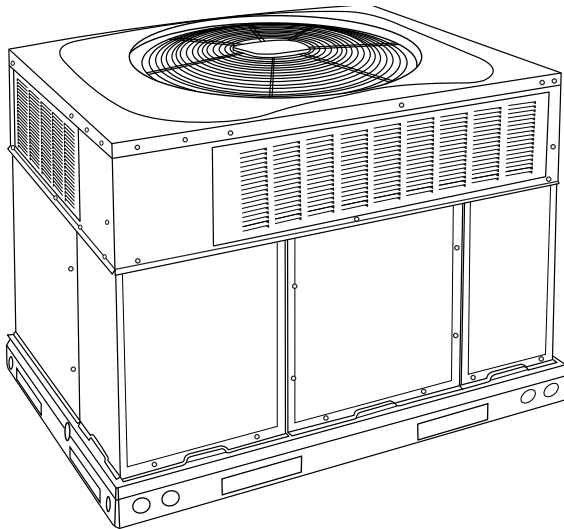


Fig. 1 – Unit 577E

A09033

Single-Packaged Products with Energy-Saving Features and Puron® (R-410A) refrigerant.

- 15.0 to 16.0 SEER
- 12.0 - 12.5 EER
- 81% AFUE (Single and three phase models)
- Meets Energy Star requirements
- Direct Spark Ignition
- Factory-Installed TXV
- Multi-speed ECM Blower Motor-Standard
- Sound Levels as low as 72dBA
- Two Stage Cooling
- Dehumidification Feature

Features/Benefits

One-piece heating and cooling units with low sound levels, easy installation, low maintenance, and dependable performance.

Puron Refrigerant is Bryant's unique refrigerant designed to help protect the environment. Puron is an HFC refrigerant which does not contain chlorine that can harm the ozone layer. Puron refrigerant is in service in millions of systems proving highly reliable, environmentally sound performance.

Easy Installation

Factory-assembled package is a compact, fully self-contained, combination gas heating/electric cooling unit that is prewired, pre-piped, and pre-charged for minimum installation expense. These units are available in a variety of standard and optional heating/cooling size combinations with voltage options to meet residential and light commercial requirements. Units are lightweight and install easily on a

rooftop or at ground level. The high tech composite base eliminates rust problems associated with ground level applications.

Innovative Unit Base Design

On the inside a high-tech composite material will not rust and incorporates a sloped drain pan which improves drainage and helps inhibit mold, algae and bacterial growth. On the outside metal base rails provide added stability as well as easier handling and rigging.

Convertible duct configuration

Unit is designed for use in either downflow or horizontal applications. Each unit is converted from horizontal to downflow and includes two horizontal duct covers. Downflow operation is provided in the field to allow vertical ductwork connections. The basepan seals on the bottom openings to ensure a positive seal in the vertical airflow mode.

Efficient Operation

High-efficiency design offers SEER (Seasonal Energy Efficiency Ratios) of 15.0 to 16.0, 12.0 to 12.5 EER, and AFUE (Annual Fuel Utilization Efficiency) ratings as high as 81%.

Energy-saving, direct spark ignition saves gas by operating only when the room thermostat calls for heating. Standard units are furnished with natural gas controls.

Ultra Low NOx units meet South Coast Air Quality Management District (SCAQMD) and San Joaquin Air Pollution Control District (SJAPCD) are regulating a reduction of 65%, down to no more than 14ng/J of NOx emissions.

Durable, dependable components

Compressors have two stages of cooling and are designed for high efficiency. Each compressor is hermetically sealed against contamination to help promote longer life and dependable operation. Each compressor also has vibration isolation to provide quieter operation. All compressors have internal high pressure and overcurrent protection.

Turbo-tubular™ heat exchangers are constructed of aluminized steel for corrosion resistance and optimum heat transfer for improved efficiency. The tubular design permits hot gases to make multiple passes across the path of the supply air.

In addition, dimples located on the heat exchanger walls force the hot gases to stay in close contact with the walls, improving heat transfer.

Stainless steel heat exchanger available as factory installed option.

Multi-speed ECM Blower Motor is standard on all models.

Direct-drive PSC (Permanent Split Capacitor) condenser-fan motors are designed to help reduce energy consumption and provide for cooling operation down to 40°F (4.4°C) outdoor temperature. Motomaster II low ambient kit is available as a field-installed accessory.

Thermostatic Expansion Valve - A hard shutoff, balance port TXV maintains a constant superheat at the evaporator exit (cooling cycle) resulting in higher overall system efficiency.

Refrigerant system is designed to provide dependability. Liquid filter driers are used to promote clean, unrestricted operation. Each unit leaves the factory with a full refrigerant charge. Refrigerant service connections make checking operating pressures easier.

High and Low Pressure Switches provide added reliability for the compressor.

Indoor and Outdoor coils are computer-designed for optimum heat transfer and efficiency. The indoor coil is fabricated from copper tube and aluminum fins and is located inside the unit for protection against damage. The outdoor coil is internally mounted on the top tier of the unit.

Low sound ratings ensure a quiet indoor and outdoor environment with sound ratings as low as 72dBA.

Dehumidification Feature

This unit has independent fan speeds for low stage cooling and high stage cooling. In addition, 208/230 VAC models have the field-selectable capability to run an enhanced dehumidification ('DHUM') speed on each stage cooling (as low as 320CFM per ton). The dehumidification control must open the control circuit on humidity rise above the dehumidification set point.

Heating

- Reliable direct spark ignition system
- Inducer motors with ball bearings

Easy to service cabinets provide easy 3-panel accessibility to serviceable components during maintenance and installation. The basepan with integrated drain pan provides easy ground level installation with mounting pad. A nesting feature ensures a positive basepan to roof curb seal when the unit is roof mounted. A convenient 3/4-in. (19.05 mm) wide perimeter flange makes frame mounting on a rooftop easy.

Standard horizontal metal duct covers with insulation come with the unit and cover the horizontal duct openings. These can be left in place if the units are converted to downflow.

Integrated Gas Control (IGC) board provides safe and efficient control of heating and simplifies trouble-shooting through its built-in diagnostic function.

Cabinets are constructed of heavyduty, phosphated, zinc-coated prepainted steel capable of withstanding 500 hours in salt spray. Interior surfaces of the evaporator/heat exchanger compartment are insulated with foil-faced insulation, which keeps the conditioned air from being affected by the outdoor ambient temperature and provides improved indoor air quality. (Conforms to American Society of Heating, Refrigeration and Air Conditioning Engineers 62.2.) The sloped drain pan minimizes standing water in the drain. An external drain is provided.

Louvered grille provides hail and vandalism protection for the coil.

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Model Number Nomenclature

577E	N	W	E	24	000	U	A	--
Type of Unit 577E - Two-Stage Packaged Air Conditioner and Single Stage Gas Furnace System				GP - Base unit with tin plated indoor coil hairpins and stainless steel HX TP - Base unit with tin plated indoor coil hairpins. (Single Phase Only) See Price Page for full list of factory options. Only used if ordering an option.				
Electrical Supply N - 208/230-1-60 P - 208/230-3-60								
Variations				Minor Series				
Major Series				Brand Name U - Ultra Low NOx				
Nominal Cooling Capacity 24 - 2.0 Tons 30 - 2.5 Tons 36 - 3.0 Tons 42 - 3.5 Tons 48 - 4.0 Tons 60 - 5.0 Tons				Heat Input Size (Btuh) 040 - 45,000 060 - 60,000 090 - 89,000				



For California Residents:

For installation in SCAQMD only: The Ultra Low NOx furnace does meet the SCAQMD Rule 1111 14ng/J NOx emission limit.

AHRI* Capacities

Cooling Capacities and Efficiencies

Unit Size	Nominal Tons	Standard CFM (High / Low Stage)	Net Cooling Capacities - Btuh (High Stage)	EER @A**	SEER†
24	2	800 / 600	23000	12.0	15.0
30	2-1/2	1000 / 750	29000	12.0	15.0
36	3	1200 / 900	35400	12.5	16.0
42	3-1/2	1400 / 1050	42000	12.5	16.0
48	4	1600 / 1200	47500	12.3	16.0
60	5	1750 / 1200	57000	12.3	16.0

LEGEND

dB—Sound Levels (decibels)

db—Dry Bulb

SEER—Seasonal Energy Efficiency Ratio

wb—Wet Bulb

COP—Coefficient of Performance

* Air Conditioning, Heating & Refrigeration Institute.

**At "A" conditions—80°F (26.7°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor db.

† Rated in accordance with U.S. Government DOE Department of Energy) test procedures and/or AHRI Standards 210/240.

Notes:

1. Ratings are net values, reflecting the effects of circulating fan heat.

Ratings are based on:

Cooling Standard: 80°F (26.7°C) db, 67°F wb (19.4°C) indoor entering-air temperature and 95°F db (35°C) outdoor entering-air temperature.

2. Before purchasing this appliance, read important energy cost and efficiency information available from AHRI directory.org.

Heating Capacities and Efficiencies

Gas Heating Capacities and Efficiencies, Single and Three Phase Models

Unit Size	Heating Input (Btuh)	Output Capacity (Btuh)	Temperature Rise Range °F (°C)	AFUE (%)
24040 30040	45,000	37,000	25-55 (14-31)	81.0
24060 30060 36060 42060	60,000	49,000	25-55 (14-31)	81.0
42090 48090 60090	89,000	73,000	35-65 (19-36)	81.0

LEGEND

AFUE - Annual Fuel Utilization Efficiency

NOTE: Before purchasing this appliance, read important energy cost and efficiency information available from AHRIdirectory.org.

LEGEND

A-Weighted Sound Power Level (dBA)

Unit Size	Sound Ratings (dBA)	Typical Octave Band Spectrum (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	73	60.0	62.5	68.5	68.5	64.0	60.0	53.0
30	77	57.5	67.0	73.5	72.0	67.0	61.0	52.5
36	73	62.5	65.5	67.5	68.0	65.5	60.0	52.5
42	73	60.5	63.5	68.0	68.0	66.0	60.5	53.0
48	72	60.0	63.5	66.0	67.0	63.5	58.5	49.5
60	75	69.0	67.0	69.0	68.0	65.0	61.5	54.0

NOTE: Tested in accordance with AHRI Standard 270-1995 (not listed in AHRI).

Physical Data

UNIT SIZE	24040	24060	30040	30060	36060	42060	42090	48090	60090
NOMINAL CAPACITY (ton)	2	2	2-1/2	2-1/2	3	3-1/2	3-1/2	4	5
SHIPPING WEIGHT lb.	352	352	359	359	455	455	455	500	520
SHIPPING WEIGHT (kg)	160	160	163	163	206	206	206	227	236
COMPRESSORS	Scroll I								
Quantity	1								
REFRIGERANT (R-410A)									
Quantity lb.	6.4	6.4	8.3	8.3	8.1	8.7	8.7	10.8	12.1
Quantity (kg)	2.9	2.9	3.8	3.8	3.7	3.9	3.9	4.9	5.5
REFRIGERANT METERING DEVICE	TXV								
OUTDOOR COIL									
Rows...Fins/in.	1...21	1...21	2...21	2...21	2...21	2...21	2...21	2...21	2...21
Face Area (sq ft)	13.6	13.6	13.6	13.6	13.6	13.6	13.6	19.4	21.4
OUTDOOR FAN									
Nominal CFM	2500	2500	2700	2700	3000	3000	3000	3300	3600
Diameter in.	24	24	24	24	26	26	26	26	26
Diameter (mm)	609.6	609.6	609.6	609.6	600.4	660.4	660.4	660.4	660.4
Motor Hp (Rpm)	1/10 (810)	1/10 (810)	1/5 (810)	1/5 (810)	1/5 (810)	1/5 (810)	1/5 (810)	1/5 (810)	1/5 (810)
INDOOR COIL									
Rows...Fins/in.	3...17	3...17	3...17	3...17	3...17	3...17	3...17	3...17	3...17
Face Area (sq ft)	3.7	3.7	3.7	3.7	4.7	4.7	4.7	5.7	5.7
INDOOR BLOWER									
Nominal Low Stage Cooling Airflow (Cfm)	600	600	750	750	900	1050	1050	1200	1200
Nominal High Stage Cooling Airflow (Cfm)	800	800	1000	1000	1200	1400	1400	1600	1750
Size in.	10x10	10x10	10x10	10x10	11x10	11x10	11x10	11x10	11x10
Size (mm.)	254x254	254x254	254x254	254x254	279.4x254	279.4x254	279.4x254	279.4x254	279.4x254
Motor HP (RPM)	1/2 (1050)	1/2 (1050)	1/2 (1050)	1/2 (1050)	3/4 (1000)	3/4 (1075)	3/4 (1075)	1.0 (1075)	1.0 (1075)
FURNACE SECTION*									
Burner Orifice No. (Qty...Drill Size)	1...0.125	1...#28	1...0.125	1...#28	1...#28	1...#28	1...#18	1...#18	1...#18
Natural Gas (Factory Installed)									
HIGH-PRESSURE SWITCH	650 +/- 15								
(psig) Cut-out Reset (Auto)	420 +/- 25								
LOSS-OF-CHARGE / LOW-PRESSURE SWITCH	50 +/- 7								
(Liquid Line) (psig) cut-out Reset (auto)	95 +/- 7								
RETURN-AIR FILTERS ^{† ‡}									
Throwaway Size in.	20x20x1	20x24x1	20x24x1	20x24x1	24x30x1	24x30x1	24x30x1	24x36x1	24x36x1
(mm)	508x508x25	508x610x25	508x610x25	508x610x25	610x762x25	610x762x25	610x762x25	610x914x25	610x914x25

*. Based on altitude of 0 to 2000 ft (0-610 m).
†. Required filter sizes shown are based on the larger of the AHRI (Air Conditioning Heating and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/minute for throwaway type.
Air filter pressure drop for non-standard filters must not exceed 0.08 IN. W.C.
‡. If using accessory filter rack refer to the filter rack installation instructions for correct filter sizes and quantity.

Options and Accessories

Item	Description	Factory Installed Option	Field Installed Accessory
Coil Options	Base unit with tin plated indoor coil hairpins	X	
Compressor Start Kit	Compressor Start Kit assists compressor start-up by providing additional starting torque on sing phase units only.		X
Corporate Thermostats	Thermostats provide control for the system heating and cooling functions.		X
Crankcase Heater	Crankcase Heater provides anti-floodback protection for low-load cooling applications.		X*
Economizer	Vertical Economizer with Jade Honeywell W7220 Controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order.)		X
	Horizontal Economizer with Jade Honeywell W7220 Controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order.)		X
Filter Rack	Filter Rack features easy installation, serviceability, and high-filtering performance for vertical applications. Includes 1-in. filter.		X
Flat Roof Curb	14-in. (356 mm) Flat Roof Curb is available for roof mounted applications.		X
Flue Discharge Deflector	Directs flue gas exhaust 90 degrees upward from current discharge.		X
Heat Exchanger	Stainless Steel Heat Exchanger	X	
Low Ambient Kit	Low Ambient Kit (Motormaster II Control) allows the use of mechanical cooling down to outdoor temperatures as low as 0°F (-18°C) when properly installed.		X
Manual Outside Air Damper	Manual Outside Air Damper includes hood and filter rack with adjustable damper blade for up to 25% outdoor air.		X
Square-to-Round Duct Transition Kit	Square-to-Round Duct Transition Kit enable 24-48 size units to be fitted to 14 in. (356 mm) round ductwork.		X
Time Guard II	Automatically prevents the compressor from restarting for at least 4 minutes and 45 seconds after shutdown of the compressor. Not required when a corporate programmable thermostat is applied or with a RTU-MP control.		X

*. Refer to Price Page for application detail.

Unit Dimensions - 24-30

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

TOP OF UNIT.....	INCHES (MM)
DUCT SIDE OF UNIT.....	14 (355.6)
DUCT SIDE OF UNIT.....	2 (50.8)
DUCT SIDE OF UNIT.....	2 (50.8)
BOTTOM OF UNIT.....	1/2 (12.7)
FLUE PANEL.....	36 (914.4)

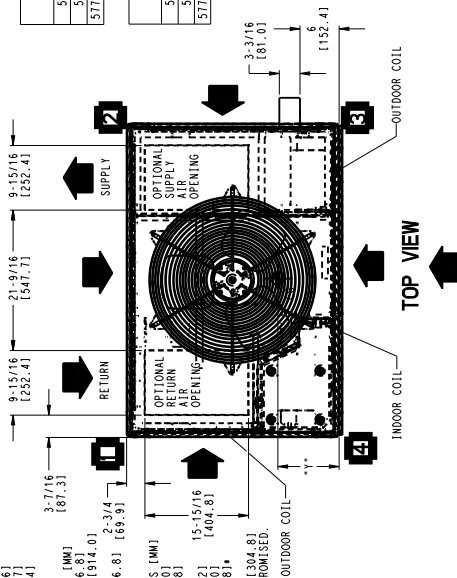
NEC. REQUIRED CLEARANCES.

BETWEEN UNITS, POWER ENTRY SIDE.....	INCHES (MM)
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE.....	42 (1066.8)
UNIT TOP SURFACES FOR COMBUSTIBLES AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE.....	42 (1066.8)

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

EVAP. COIL ACCESS SIDE.....	INCHES (MM)
POWER ENTRY SIDE.....	36 (914.4)
(EXCEPT FOR NEC REQUIREMENTS)	42 (1066.8)
UNIT TOP ACCESS DUCTS.....	48 (1219.2)
DUCT PANEL.....	12 (304.8)

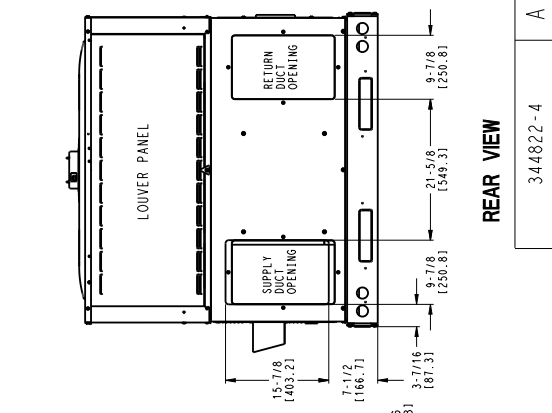
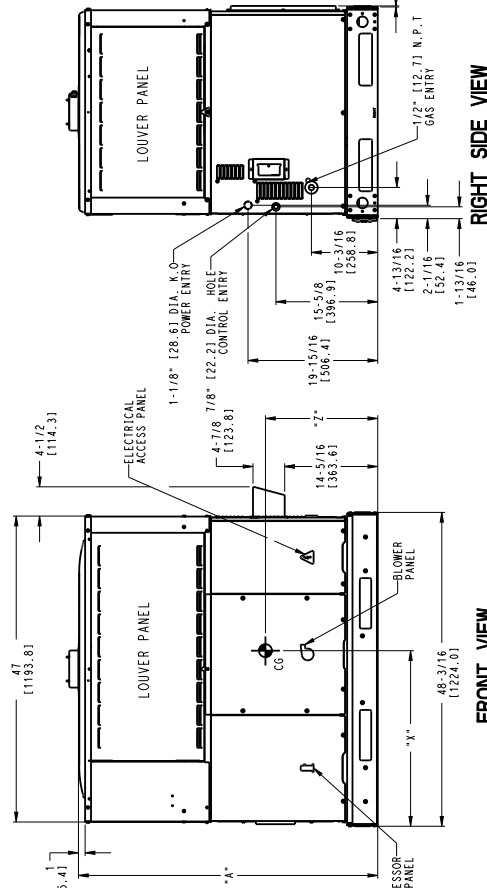
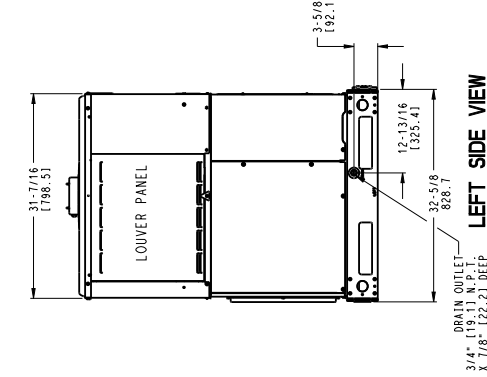
* MINIMUM DISTANCES IF UNIT IS PLACED LESS THAN 12 (304.8) FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAY BE COMPROMISED. DIMENSIONS IN () ARE IN MM



UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT. LB	UNIT HEIGHT IN/MM	X	Y	Z
577EWE24(040/060)1A/N/UA*	208/230-1-60	344 (156.1)	44-1/8 (1121)	22-13/16 (579.4)	15-5/16 (388.9)	15-13/16 (401.6)
577EWE30(040/060)1A/N/UA*	208/230-1-60	351 (159.3)	44-1/8 (1121)	22-13/16 (579.4)	15-5/16 (388.9)	16-5/8 (422.3)
577EPWA,E130(040/060)1A/N/UA*	208/230-3-60	351 (159.3)	44-1/8 (1121)	22-13/16 (579.4)	15-5/16 (388.9)	16-5/8 (422.3)

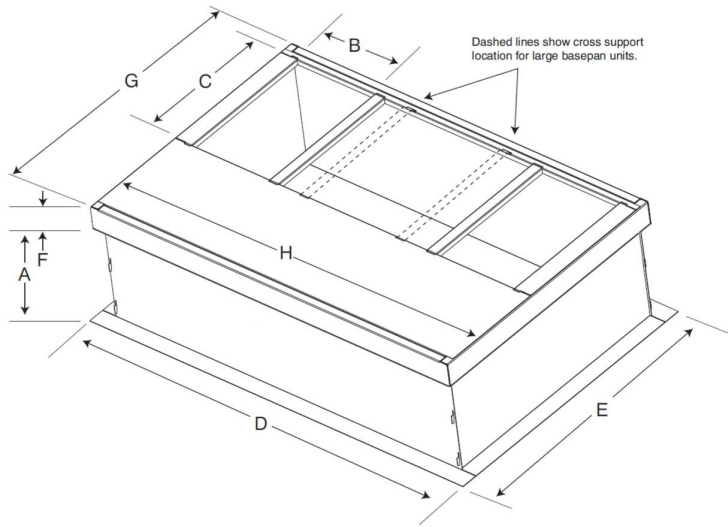
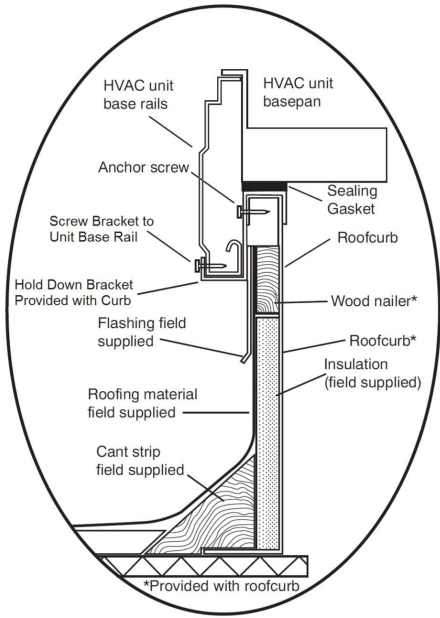
UNIT	VOLTAGE	1-1"	2-2"	3-3"	4-4"
577EWE24(040/060)1A/N/UA*	208/230	87.9	39.9	77.6	35.2
577EWE30(040/060)1A/N/UA*	208/230	89.7	40.7	79.0	35.8
577EPWA,E130(040/060)1A/N/UA*	208/230	89.7	40.7	79.0	35.8

NOTE: 1. ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER.
2. * - INDICATES ALL FTOP CODES FOR THE MODELS LISTED.

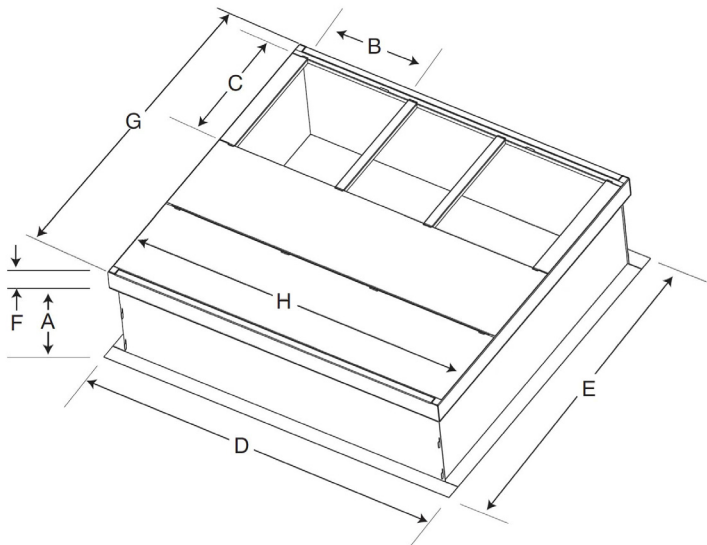


NOTE: 1. ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER.
2. * - INDICATES ALL FOP CODES FOR THE MODELS LISTED.

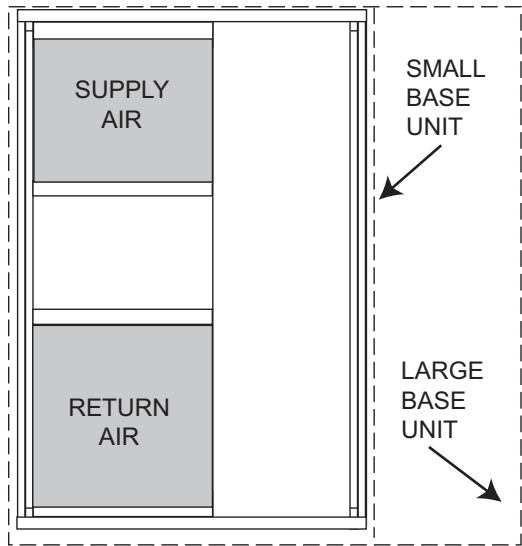
Accessory Dimensions



SMALL/COMMON CURB



LARGE CURB



UNIT PLACEMENT ON COMMON CURB

SMALL OR LARGE BASE UNIT

A180216

Unit Size	Catalog Number	A in. (mm)	B (small / common base) in. (mm)*	B (large base) in. (mm)*	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)
Small or Large	CPRFCURB011B00	14 (356)	10 (254)	14 (356)	16 (406)	47.8 (1214)	32.4 (822)	2.7 (69)	30.6 (778)	46.1 (1170)
Large	CPRFCURB013B00	14 (356)	14 (356)				43.9 (1116)		42.2 (1072)	

* Part Number CPRFCURB011B00 can be used on both small and large basepan units. The cross supports must be located based on whether the unit is a small basepan or a large basepan.

NOTES:

1. Roof curb must be set up for unit being installed.
2. Seal strip must be applied, as required, to unit being installed.
3. Roof curb is made of 16-gauge steel.
4. Attach ductwork to curb (flanges of duct rest on curb).
5. Insulated panels: 1-in. (25.4 mm) thick fiberglass 1 lb. density.

Selection Procedure (with example)

1. Determine cooling and heating requirements at design conditions:
Given:
Required Cooling Capacity (TC)34,000Btuh
Sensible Heat Capacity (SHC) 25,000 Btuh
Required Heating Capacity..... 60,000 Btuh
Condenser Entering Air Temperature 95°F (35°C)
Indoor-Air Temperature80°F (26°C)edb 67°F (19°C)ewb
Evaporator Air Quantity 1200 CFM
External Static Pressure 0.100 IN. W.C.
Electrical Characteristics 208-1-60
2. Select unit based on required cooling capacity.
Enter Net Cooling Capacities table at condenser entering temperature of 95°F (35°C). Unit 036 at 1200 cfm and 67°F (19°C) ewb (entering wet bulb) will provide a total capacity of 34,200 Btuh and a SHC of 27,400 Btuh. Calculate SHC correction, if required, using Note 4 under Cooling Capacities tables.
3. Select heating capacity of unit to provide design condition requirement.
In the Heating Capacities and Efficiencies table, note that the unit 036090 (208/230 VAC) will provide 74,000 Btuh with an input of 90,000 Btuh in high stage and will provide 48,000 Btuh of heating in low stage.

4. Determine fan speed and power requirements at design conditions.
Before entering the air delivery tables, calculate the total static pressure required. From the given example, the Wet Coil Pressure Drop Table, and the Filter Pressure Drop Table:
- | | |
|--------------------------|----------------------|
| External Static Pressure | 0.100 IN. W.C |
| Filter | 0.07 IN. W.C |
| Wet Coil Pressure Drop | <u>0.180 IN. W.C</u> |
| Total Static Pressure | 0.287 IN. W.C |
- Enter the table for Dry Coil Air Delivery—Horizontal and Downflow Discharge. At .287 IN. W.C. ESP, the closest speed to 1200 CFM is Med-Hi (orange wire), which delivers 1267 CFM at .3 in ESP.
5. Select unit that corresponds to power source available.
The Electrical Data Table shows that the unit is designed to operate at 208-1-60.

Performance Data
024 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
525	57 (13.8)	17.82	17.82	1.08	16.44	16.44	1.24	15.06	15.06	1.41	13.67	13.67	1.60	12.27	12.27	1.81	10.86	10.86	2.04
	62 (16.6)	18.21	16.78	1.07	16.66	15.16	1.24	15.11	15.05	1.41	13.69	13.69	1.60	12.28	12.28	1.81	10.88	10.88	2.04
	63* (17.2)	18.58	13.61	1.07	16.98	12.24	1.23	15.39	10.90	1.41	13.80	9.59	1.60	12.20	8.32	1.82	10.62	7.10	2.05
	67 (19.4)	19.95	14.13	1.04	18.24	12.71	1.21	16.54	11.34	1.39	14.83	10.00	1.58	13.13	8.69	1.80	11.44	7.44	2.03
	72 (22.2)	21.87	11.42	1.01	20.00	10.22	1.18	18.14	9.05	1.36	16.28	7.92	1.56	14.42	6.82	1.78	12.59	5.78	2.01
600	57 (13.8)	18.60	18.60	1.08	17.14	17.14	1.24	15.68	15.68	1.42	14.21	14.21	1.61	12.73	12.73	1.82	11.25	11.25	2.05
	62 (16.6)	18.65	18.61	1.08	17.17	17.17	1.24	15.71	15.71	1.42	14.23	14.23	1.61	12.75	12.75	1.82	11.27	11.27	2.05
	63* (17.2)	18.96	14.57	1.08	17.31	13.11	1.24	15.67	11.69	1.42	14.03	10.31	1.61	12.39	8.97	1.83	10.77	7.67	2.06
	67 (19.4)	20.34	15.15	1.05	18.58	13.66	1.22	16.82	12.20	1.40	15.06	10.77	1.60	13.31	9.39	1.81	11.59	8.05	2.04
	72 (22.2)	22.29	12.08	1.02	20.35	10.81	1.19	18.43	9.59	1.37	16.52	8.40	1.57	14.61	7.26	1.79	12.73	6.17	2.02
675	57 (13.8)	19.26	19.26	1.09	17.73	17.73	1.25	16.20	16.20	1.42	14.66	14.66	1.62	13.11	13.11	1.83	11.57	11.57	2.06
	62 (16.6)	19.29	19.29	1.09	17.75	17.75	1.25	16.22	16.22	1.42	14.68	14.68	1.62	13.13	13.13	1.83	11.59	11.59	2.06
	63* (17.2)	19.25	15.50	1.09	17.56	13.97	1.25	15.88	12.47	1.43	14.21	11.01	1.63	12.53	9.59	1.84	10.89	8.21	2.07
	67 (19.4)	20.64	16.16	1.06	18.83	14.58	1.23	17.03	13.03	1.41	15.24	11.53	1.61	13.45	10.06	1.82	11.70	8.65	2.05
	72 (22.2)	22.59	12.71	1.03	20.61	11.39	1.20	18.64	10.12	1.39	16.69	8.88	1.58	14.74	7.68	1.80	12.83	6.55	2.03

See Legend and Notes on page 17.

024 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
700	57 (13.8)	23.89	23.89	1.55	22.22	22.22	1.70	20.54	20.54	1.87	18.86	18.86	2.05	17.17	17.17	2.26	15.50	15.50	2.48
	62 (16.6)	24.55	21.58	1.55	22.62	20.64	1.71	20.72	19.69	1.87	18.89	18.89	2.05	17.20	17.20	2.26	15.52	15.52	2.48
	63* (17.2)	25.02	17.56	1.56	23.05	16.72	1.71	21.08	15.86	1.87	19.13	15.01	2.06	17.19	14.15	2.26	15.30	13.30	2.48
	67 (19.4)	26.85	18.20	1.57	24.72	17.34	1.73	22.61	16.48	1.89	20.50	15.61	2.07	18.42	14.75	2.27	16.39	13.89	2.49
	72 (22.2)	29.38	14.76	1.60	27.04	13.97	1.75	24.71	13.17	1.92	22.42	12.38	2.10	20.14	11.59	2.30	17.91	10.81	2.52
800	57 (13.8)	24.94	24.94	1.57	23.16	23.16	1.73	21.38	21.38	1.90	19.59	19.59	2.08	17.81	17.81	2.28	16.04	16.04	2.51
	62 (16.6)	25.14	23.30	1.58	23.20	23.20	1.73	21.41	21.41	1.90	19.62	19.62	2.08	17.83	17.83	2.28	16.06	16.06	2.51
	63* (17.2)	25.56	18.77	1.58	23.51	17.89	1.73	21.48	17.00	1.90	19.46	16.11	2.08	17.46	15.22	2.28	15.51	14.34	2.50
	67 (19.4)	27.40	19.50	1.60	25.19	18.60	1.75	23.00	17.70	1.92	20.83	16.80	2.10	18.68	15.89	2.30	16.60	15.00	2.52
	72 (22.2)	29.94	15.58	1.62	27.52	14.76	1.78	25.12	13.94	1.95	22.74	13.12	2.13	20.40	12.31	2.33	18.12	11.50	2.54
900	57 (13.8)	25.82	25.82	1.60	23.95	23.95	1.76	22.08	22.08	1.92	20.20	20.20	2.11	18.33	18.33	2.31	16.48	16.48	2.53
	62 (16.6)	25.86	25.86	1.60	23.98	23.98	1.76	22.11	22.11	1.92	20.23	20.23	2.11	18.35	18.35	2.31	16.50	16.50	2.53
	63* (17.2)	25.97	19.95	1.60	23.86	19.03	1.75	21.77	18.11	1.92	19.70	17.18	2.10	17.66	16.25	2.30	15.68	15.32	2.52
	67 (19.4)	27.81	20.76	1.62	25.54	19.83	1.77	23.30	18.89	1.94	21.07	17.95	2.12	18.88	17.01	2.32	16.76	16.07	2.54
	72 (22.2)	30.37	16.37	1.64	27.89	15.53	1.80	25.42	14.69	1.97	22.99	13.85	2.15	20.59	13.01	2.35	18.26	12.18	2.56

See Legend and Notes on page 17.

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Performance Data (Cont)
030 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
655	EWB °F (°C)																		
	57 (13.8)	22.30	22.30	1.43	20.19	20.19	1.49	18.10	18.10	1.53	16.02	16.02	1.57	13.97	13.97	1.59	11.95	11.95	1.60
	62 (16.6)	22.91	20.51	1.43	20.54	17.72	1.48	18.23	15.01	1.53	16.05	16.05	1.57	13.99	13.99	1.59	11.97	11.97	1.60
	63* (17.2)	23.36	16.69	1.43	20.94	14.35	1.48	18.55	12.09	1.53	16.21	9.92	1.56	13.91	7.86	1.59	11.68	5.91	1.60
	67 (19.4)	25.19	17.36	1.41	22.57	14.93	1.46	19.99	12.60	1.51	17.47	10.36	1.55	15.00	8.21	1.58	12.60	6.19	1.59
750	57 (13.8)	27.74	14.14	1.38	24.84	12.08	1.44	22.00	10.11	1.49	19.22	8.24	1.54	16.51	6.47	1.57	13.88	4.82	1.58
	62 (16.6)	23.33	23.33	1.45	21.08	21.08	1.50	18.87	18.87	1.54	16.68	16.68	1.58	14.51	14.51	1.60	12.38	12.38	1.61
	63* (17.2)	23.49	22.18	1.45	21.12	21.12	1.50	18.90	18.90	1.54	16.70	16.70	1.58	14.53	14.53	1.60	12.39	12.39	1.61
	67 (19.4)	23.87	17.87	1.45	21.36	15.38	1.50	18.90	12.98	1.55	16.48	10.67	1.58	14.12	8.46	1.61	11.84	6.38	1.61
	72 (22.2)	25.72	18.62	1.43	23.00	16.04	1.48	20.35	13.55	1.53	17.75	11.16	1.57	15.21	8.87	1.59	12.76	6.70	1.60
840	57 (13.8)	28.29	14.94	1.40	25.30	12.78	1.46	22.37	10.72	1.51	19.51	8.75	1.55	16.72	6.88	1.58	14.03	5.14	1.59
	62 (16.6)	24.14	24.14	1.47	21.79	21.79	1.52	19.48	19.48	1.56	17.18	17.18	1.59	14.92	14.92	1.61	12.71	12.71	1.62
	63* (17.2)	24.18	24.18	1.46	21.82	21.82	1.52	19.50	19.50	1.56	17.21	17.21	1.59	14.94	14.94	1.61	12.72	12.72	1.62
	67 (19.4)	24.24	18.95	1.47	21.66	16.32	1.52	19.15	13.79	1.56	16.68	11.35	1.60	14.28	9.02	1.62	11.96	6.80	1.63
	72 (22.2)	26.09	19.78	1.45	23.31	17.06	1.50	20.60	14.43	1.55	17.95	11.90	1.59	15.36	9.47	1.61	12.87	7.16	1.62
		28.69	15.67	1.42	25.62	13.42	1.48	22.63	11.27	1.53	19.71	9.21	1.57	16.86	7.26	1.60	14.12	5.44	1.61

See Legend and Notes on page 17.

030 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
875	EWB °F (°C)																		
	57 (13.8)	30.54	30.54	1.97	28.11	28.11	2.15	25.68	25.68	2.35	23.24	23.24	2.57	20.78	20.78	2.83	18.33	18.33	3.12
	62 (16.6)	31.60	26.39	1.98	28.82	24.96	2.15	26.06	23.52	2.35	23.34	23.16	2.57	20.81	20.81	2.83	18.36	18.36	3.12
	63* (17.2)	32.20	21.56	1.98	29.34	20.29	2.16	26.51	19.02	2.36	23.69	17.75	2.58	20.88	16.46	2.83	18.12	15.18	3.11
	67 (19.4)	34.66	22.38	2.01	31.55	21.07	2.19	28.49	19.77	2.38	25.45	18.47	2.60	22.42	17.16	2.85	19.45	15.86	3.13
1000	72 (22.2)	38.04	18.28	2.05	34.61	17.09	2.22	31.23	15.91	2.42	27.87	14.73	2.64	24.55	13.55	2.89	21.31	12.39	3.16
	57 (13.8)	31.92	31.92	2.01	29.32	29.32	2.19	26.74	26.74	2.39	24.16	24.16	2.61	21.55	21.55	2.87	18.97	18.97	3.15
	62 (16.6)	32.39	28.44	2.01	29.52	26.89	2.19	26.78	26.78	2.39	24.19	24.19	2.61	21.58	21.58	2.87	18.99	18.99	3.15
	63* (17.2)	32.92	23.02	2.02	29.95	21.68	2.19	27.01	20.35	2.39	24.10	19.02	2.61	21.21	17.67	2.86	18.37	16.33	3.14
	67 (19.4)	35.39	23.93	2.04	32.18	22.57	2.22	29.00	21.20	2.42	25.86	19.84	2.64	22.74	18.46	2.88	19.70	17.10	3.16
1125	72 (22.2)	38.82	19.27	2.08	35.26	18.03	2.26	31.76	16.81	2.46	28.30	15.59	2.67	24.87	14.37	2.92	21.55	13.17	3.19
	57 (13.8)	33.07	33.07	2.05	30.34	30.34	2.23	27.63	27.63	2.43	24.91	24.91	2.65	22.18	22.18	2.90	19.49	19.49	3.19
	62 (16.6)	33.13	33.13	2.05	30.38	30.38	2.23	27.67	27.67	2.43	24.94	24.94	2.65	22.21	22.21	2.90	19.51	19.51	3.19
	63* (17.2)	33.47	24.42	2.05	30.41	23.02	2.23	27.40	21.64	2.42	24.41	20.24	2.64	21.46	18.84	2.89	18.57	17.42	3.17
	67 (19.4)	35.96	25.44	2.08	32.64	24.00	2.25	29.39	22.58	2.45	26.17	21.16	2.67	22.98	19.72	2.91	19.90	18.28	3.19
		39.41	20.21	2.12	35.75	18.94	2.29	32.16	17.68	2.49	28.60	16.42	2.71	25.11	15.17	2.95	21.72	13.93	3.22

See Legend and Notes on page 17.

Performance Data (cont)
036 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
785	57 (13.8)	25.86	25.86	1.54	23.52	23.52	1.64	21.19	21.19	1.74	18.89	18.89	1.84	16.59	16.59	1.93	14.33	14.33	2.02
	62 (16.6)	26.33	24.60	1.54	23.73	22.02	1.64	21.23	21.23	1.74	18.92	18.92	1.84	16.62	16.62	1.93	14.35	14.35	2.02
	63* (17.2)	26.84	19.92	1.53	24.16	17.75	1.64	21.53	15.63	1.74	18.93	13.59	1.84	16.37	11.61	1.94	13.88	9.71	2.03
	67 (19.4)	28.92	20.73	1.51	26.02	18.48	1.62	23.18	16.30	1.72	20.39	14.19	1.82	17.65	12.15	1.92	14.97	10.19	2.02
	72 (22.2)	31.81	16.77	1.48	28.62	14.85	1.59	25.50	13.00	1.70	22.43	11.22	1.80	19.42	9.51	1.90	16.49	7.89	2.00
900	57 (13.8)	27.03	27.03	1.55	24.55	24.55	1.65	22.09	22.09	1.75	19.65	19.65	1.85	17.23	17.23	1.94	14.84	14.84	2.03
	62 (16.6)	27.07	27.07	1.55	24.59	24.59	1.65	22.12	22.12	1.75	19.68	19.68	1.85	17.25	17.25	1.94	14.86	14.86	2.03
	63* (17.2)	27.41	21.37	1.55	24.64	19.06	1.65	21.93	16.82	1.75	19.25	14.64	1.85	16.63	12.53	1.95	14.08	10.51	2.04
	67 (19.4)	29.51	22.28	1.53	26.52	19.89	1.63	23.59	17.58	1.74	20.72	15.32	1.84	17.90	13.15	1.94	15.16	11.05	2.03
	72 (22.2)	32.43	17.75	1.50	29.14	15.74	1.61	25.92	13.80	1.71	22.76	11.93	1.82	19.67	10.14	1.92	16.67	8.43	2.01
1010	57 (13.8)	27.98	27.98	1.56	25.37	25.37	1.66	22.80	22.80	1.76	20.25	20.25	1.86	17.72	17.72	1.95	15.24	15.24	2.04
	62 (16.6)	28.02	28.02	1.56	25.41	25.41	1.66	22.83	22.83	1.76	20.28	20.28	1.86	17.75	17.75	1.95	15.25	15.25	2.04
	63* (17.2)	27.84	22.71	1.56	24.99	20.28	1.67	22.22	17.92	1.77	19.49	15.62	1.87	16.82	13.38	1.96	14.28	14.28	2.05
	67 (19.4)	29.94	23.73	1.54	26.88	21.21	1.65	23.89	18.76	1.75	20.96	16.38	1.85	18.09	14.07	1.95	15.32	11.82	2.04
	72 (22.2)	32.87	18.66	1.51	29.50	16.57	1.62	26.21	14.55	1.73	22.99	12.60	1.83	19.84	10.73	1.93	16.79	8.94	2.02

See Legend and Notes on page 17.

036 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1050	57 (13.8)	35.86	35.86	2.29	33.72	33.72	2.51	31.52	31.52	2.76	29.26	29.26	3.03	26.89	26.89	3.34	24.47	24.47	3.69
	62 (16.6)	36.94	33.14	2.30	34.42	31.53	2.52	31.86	29.88	2.76	29.31	29.31	3.03	26.93	26.93	3.34	24.51	24.51	3.69
	63* (17.2)	37.62	27.02	2.31	35.04	25.57	2.53	32.41	24.12	2.77	29.71	22.66	3.03	26.94	21.18	3.34	24.13	19.71	3.69
	67 (19.4)	40.43	28.03	2.34	37.63	26.55	2.56	34.79	25.07	2.80	31.86	23.58	3.07	28.87	22.07	3.37	25.86	20.58	3.71
	72 (22.2)	44.31	22.80	2.39	41.22	21.45	2.61	38.07	20.10	2.85	34.86	18.73	3.11	31.58	17.37	3.41	28.28	16.02	3.75
1200	57 (13.8)	37.44	37.44	2.33	35.15	35.15	2.55	32.81	32.81	2.80	30.39	30.39	3.07	27.88	27.88	3.38	25.31	25.31	3.73
	62 (16.6)	37.84	35.72	2.34	35.28	35.09	2.56	32.85	32.85	2.80	30.43	30.43	3.07	27.92	27.92	3.38	25.34	25.34	3.73
	63* (17.2)	38.44	28.86	2.34	35.75	27.35	2.56	33.01	25.83	2.80	30.22	24.30	3.07	27.35	22.75	3.37	24.48	21.21	3.71
	67 (19.4)	41.27	30.00	2.38	38.37	28.45	2.59	35.40	26.90	2.83	32.38	25.34	3.10	29.29	23.77	3.40	26.20	22.20	3.74
	72 (22.2)	45.20	24.05	2.43	41.98	22.65	2.64	38.71	21.25	2.88	35.39	19.85	3.15	32.00	18.44	3.45	28.62	17.05	3.79
1350	57 (13.8)	38.77	38.77	2.37	36.36	36.36	2.59	33.88	33.88	2.84	31.33	31.33	3.11	28.69	28.69	3.42	26.00	26.00	3.76
	62 (16.6)	38.82	38.82	2.37	36.40	36.40	2.59	33.92	33.92	2.84	31.37	31.37	3.11	28.72	28.72	3.42	26.03	26.03	3.76
	63* (17.2)	39.08	30.63	2.38	36.30	29.05	2.59	33.49	27.48	2.83	30.61	25.88	3.10	27.68	24.26	3.40	24.75	22.63	3.74
	67 (19.4)	41.92	31.90	2.41	38.92	30.29	2.63	35.87	28.67	2.86	32.77	27.04	3.13	29.62	25.40	3.43	26.47	23.74	3.77
	72 (22.2)	45.86	25.24	2.46	42.55	23.81	2.68	39.20	22.37	2.92	35.78	20.92	3.18	32.32	19.48	3.48	28.86	18.05	3.81

See Legend and Notes on page 17.

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Performance Data (Cont)
042 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
915	57 (13.8)	30.96	30.96	1.93	28.67	28.67	1.98	26.33	26.33	2.01	23.93	23.93	2.04	21.48	21.48	2.05	19.01	19.01	2.03
	62 (16.6)	31.67	29.10	1.93	29.07	26.30	1.97	26.44	26.27	2.01	23.97	23.97	2.04	21.51	21.51	2.05	19.03	19.03	2.03
	63* (17.2)	32.30	23.63	1.92	29.63	21.25	1.97	26.89	18.92	2.01	24.12	16.63	2.04	21.31	14.41	2.05	18.51	12.28	2.04
	67 (19.4)	34.88	24.60	1.90	31.98	22.15	1.94	29.02	19.73	1.98	26.03	17.38	2.01	23.01	15.09	2.03	20.00	12.89	2.02
	72 (22.2)	38.48	20.01	1.87	35.25	17.89	1.91	31.99	15.82	1.95	28.70	13.81	1.98	25.38	11.87	1.99	22.08	10.03	1.98
1050	57 (13.8)	32.40	32.40	1.95	29.96	29.96	2.00	27.47	27.47	2.03	24.92	24.92	2.05	22.32	22.32	2.06	19.70	19.70	2.04
	62 (16.6)	32.52	32.36	1.95	30.01	30.01	1.99	27.51	27.51	2.03	24.96	24.96	2.05	22.35	22.35	2.06	19.73	19.73	2.04
	63* (17.2)	33.02	25.34	1.95	30.24	22.82	1.99	27.41	20.34	2.03	24.54	17.91	2.06	21.65	15.55	2.07	18.77	13.28	2.06
	67 (19.4)	35.63	26.44	1.93	32.61	23.83	1.97	29.55	21.26	2.01	26.46	18.75	2.03	23.35	16.31	2.04	20.26	13.96	2.03
	72 (22.2)	39.26	21.17	1.89	35.92	18.95	1.93	32.54	16.78	1.97	29.14	14.67	2.00	25.72	12.64	2.01	22.33	10.70	1.99
1180	57 (13.8)	33.57	33.57	1.98	31.00	31.00	2.01	28.38	28.38	2.05	25.70	25.70	2.07	22.99	22.99	2.07	20.25	20.25	2.05
	62 (16.6)	33.62	33.62	1.98	31.04	31.04	2.01	28.42	28.42	2.05	25.74	25.74	2.07	23.02	23.02	2.07	20.27	20.27	2.05
	63* (17.2)	33.55	26.93	1.98	30.68	24.28	2.02	27.77	21.66	2.05	24.85	19.10	2.08	21.90	16.60	2.09	18.99	18.84	2.07
	67 (19.4)	36.17	28.15	1.95	33.07	25.40	1.99	29.92	22.69	2.03	26.76	20.04	2.05	23.60	17.46	2.06	20.46	14.94	2.05
	72 (22.2)	39.84	22.25	1.92	36.39	19.94	1.96	32.92	17.68	1.99	29.44	15.49	2.02	25.95	13.37	2.02	22.49	11.34	2.01

See Legend and Notes on page 17.

042 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1225	57 (13.8)	44.10	44.10	2.67	40.87	40.87	2.95	37.59	37.59	3.27	34.28	34.28	3.63	30.95	30.95	4.03	27.68	27.68	4.47
	62 (16.6)	45.47	38.57	2.68	41.76	36.75	2.96	38.02	34.87	3.28	34.34	34.34	3.63	31.00	31.00	4.03	27.72	27.72	4.47
	63* (17.2)	46.30	31.46	2.69	42.48	29.82	2.97	38.64	28.16	3.28	34.81	26.49	3.64	31.02	24.81	4.03	27.34	23.17	4.46
	67 (19.4)	49.63	32.58	2.71	45.48	30.90	3.00	41.33	29.20	3.32	37.21	27.50	3.67	33.12	25.80	4.06	29.18	24.14	4.49
	72 (22.2)	54.17	26.44	2.75	49.61	24.90	3.04	45.06	23.34	3.36	40.53	21.79	3.72	36.05	20.23	4.11	31.74	18.73	4.54
1400	57 (13.8)	45.98	45.98	2.72	42.52	42.52	3.01	39.03	39.03	3.33	35.52	35.52	3.69	32.01	32.01	4.08	28.56	28.56	4.52
	62 (16.6)	46.52	41.52	2.73	42.71	42.37	3.01	39.08	39.08	3.33	35.57	35.57	3.69	32.04	32.04	4.08	28.59	28.59	4.52
	63* (17.2)	47.25	33.56	2.73	43.28	31.84	3.01	39.30	30.11	3.33	35.35	28.36	3.68	31.44	26.61	4.07	27.67	24.89	4.50
	67 (19.4)	50.58	34.83	2.76	46.29	33.07	3.04	42.00	31.30	3.36	37.75	29.52	3.72	33.55	27.75	4.11	29.50	26.00	4.54
	72 (22.2)	55.17	27.86	2.79	50.45	26.26	3.08	45.74	24.65	3.41	41.08	23.05	3.76	36.47	21.45	4.16	32.06	19.90	4.59
1575	57 (13.8)	47.54	47.54	2.77	43.89	43.89	3.05	40.22	40.22	3.38	36.54	36.54	3.74	32.86	32.86	4.13	29.26	29.26	4.57
	62 (16.6)	47.60	47.60	2.77	43.95	43.95	3.05	40.27	40.27	3.38	36.59	36.59	3.74	32.90	32.90	4.14	29.29	29.29	4.57
	63* (17.2)	47.97	35.58	2.77	43.88	33.79	3.05	39.80	31.99	3.37	35.76	30.17	3.72	31.76	28.34	4.12	27.94	26.51	4.55
	67 (19.4)	51.31	37.00	2.80	46.89	35.17	3.08	42.50	33.33	3.40	38.15	31.48	3.76	33.86	29.62	4.15	29.75	27.77	4.58
	72 (22.2)	55.92	29.22	2.84	51.07	27.57	3.12	46.25	25.93	3.45	41.47	24.28	3.81	36.77	22.64	4.20	32.27	21.05	4.63

See Legend and Notes on page 17.

Performance Data (Cont)
048 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1050	57 (13.8)	35.18	35.18	2.15	32.65	32.65	2.21	30.08	30.08	2.26	27.45	27.45	2.29	24.76	24.76	2.29	22.01	22.01	2.26
	62 (16.6)	35.89	33.38	2.14	32.99	30.42	2.21	30.13	30.13	2.26	27.49	27.49	2.29	24.80	24.80	2.29	22.04	22.04	2.25
	63* (17.2)	36.62	27.06	2.14	33.64	24.54	2.21	30.61	22.07	2.26	27.55	19.66	2.29	24.45	17.30	2.29	21.33	15.03	2.26
	67 (19.4)	39.58	28.19	2.11	36.35	25.60	2.19	33.07	23.05	2.24	29.78	20.56	2.28	26.42	18.13	2.28	23.06	15.78	2.25
	72 (22.2)	43.68	22.88	2.08	40.10	20.63	2.16	36.50	18.44	2.22	32.85	16.30	2.26	29.17	14.23	2.26	25.49	12.25	2.24
1200	57 (13.8)	36.76	36.76	2.18	34.07	34.07	2.25	31.32	31.32	2.29	28.53	28.53	2.32	25.68	25.68	2.32	22.77	22.77	2.28
	62 (16.6)	36.82	36.82	2.18	34.12	34.12	2.25	31.37	31.37	2.29	28.58	28.58	2.32	25.71	25.71	2.32	22.80	22.80	2.28
	63* (17.2)	37.37	28.96	2.18	34.28	26.30	2.25	31.15	23.69	2.30	27.99	21.13	2.32	24.79	18.64	2.32	21.59	16.21	2.29
	67 (19.4)	40.36	30.24	2.15	37.01	27.49	2.23	33.63	24.79	2.28	30.21	22.14	2.31	26.77	19.57	2.31	23.32	17.07	2.28
	72 (22.2)	44.51	24.17	2.12	40.80	21.82	2.20	37.07	19.52	2.26	33.30	17.29	2.29	29.52	15.13	2.29	25.74	13.06	2.26
1310	57 (13.8)	37.76	37.76	2.21	34.95	34.95	2.27	32.10	32.10	2.32	29.20	29.20	2.34	26.23	26.23	2.34	23.23	23.23	2.30
	62 (16.6)	37.81	37.81	2.21	35.00	35.00	2.27	32.15	32.15	2.32	29.24	29.24	2.34	26.27	26.27	2.34	23.26	23.26	2.30
	63* (17.2)	37.81	30.32	2.21	34.64	27.55	2.28	31.45	24.84	2.32	28.23	22.18	2.35	24.98	19.58	2.34	21.76	21.62	2.31
	67 (19.4)	40.80	31.70	2.19	37.39	28.84	2.26	33.93	26.03	2.31	30.46	23.28	2.33	26.96	20.59	2.33	23.47	17.97	2.29
	72 (22.2)	44.98	25.09	2.15	41.19	22.67	2.23	37.37	20.30	2.28	33.55	18.00	2.31	29.70	15.77	2.32	25.85	13.64	2.28

See Legend and Notes on page 17.

048 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB °F (°C)	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1400	57 (13.8)	48.89	48.89	3.11	45.66	45.66	3.41	42.38	42.38	3.75	39.05	39.05	4.13	35.68	35.68	4.55	32.30	32.30	4.99
	62 (16.6)	50.28	43.47	3.12	46.51	41.71	3.42	42.75	39.90	3.76	39.11	39.11	4.13	35.73	35.73	4.55	32.34	32.34	4.99
	63* (17.2)	51.23	35.39	3.13	47.37	33.80	3.43	43.48	32.17	3.77	39.57	30.53	4.14	35.65	28.86	4.54	31.78	27.20	4.98
	67 (19.4)	55.12	36.75	3.16	50.93	35.12	3.46	46.72	33.47	3.80	42.50	31.80	4.17	38.27	30.11	4.58	34.10	28.42	5.02
	72 (22.2)	60.49	29.87	3.21	55.87	28.34	3.51	51.22	26.80	3.84	46.58	25.25	4.22	41.93	23.68	4.62	37.37	22.12	5.06
1600	57 (13.8)	51.01	51.01	3.18	47.56	47.56	3.48	44.07	44.07	3.83	40.53	40.53	4.20	36.95	36.95	4.62	33.37	33.37	5.06
	62 (16.6)	51.47	46.83	3.18	47.65	47.65	3.49	44.13	44.13	3.83	40.59	40.59	4.20	37.00	37.00	4.62	33.41	33.41	5.06
	63* (17.2)	52.30	37.79	3.19	48.28	36.13	3.49	44.24	34.44	3.83	40.20	32.73	4.20	36.15	30.99	4.60	32.18	29.26	5.04
	67 (19.4)	56.21	39.32	3.23	51.86	37.62	3.53	47.50	35.90	3.86	43.13	34.16	4.23	38.77	32.40	4.64	34.50	30.65	5.07
	72 (22.2)	61.65	31.49	3.27	56.85	29.91	3.57	52.04	28.32	3.91	47.24	26.72	4.28	42.45	25.11	4.68	37.76	23.52	5.11
1750	57 (13.8)	52.37	52.37	3.23	48.78	48.78	3.54	45.15	45.15	3.88	41.47	41.47	4.25	37.75	37.75	4.66	34.04	34.04	5.11
	62 (16.6)	52.45	52.45	3.23	48.85	48.85	3.54	45.21	45.21	3.88	41.52	41.52	4.26	37.79	37.79	4.66	34.08	34.08	5.11
	63* (17.2)	52.92	39.53	3.24	48.81	37.82	3.54	44.68	36.08	3.87	40.56	34.32	4.24	36.44	32.53	4.65	32.42	30.72	5.08
	67 (19.4)	56.86	41.19	3.27	52.41	39.44	3.57	47.95	37.67	3.91	43.50	35.88	4.28	39.06	34.07	4.68	34.73	32.25	5.12
	72 (22.2)	62.33	32.67	3.32	57.41	31.06	3.62	52.50	29.43	3.95	47.61	27.80	4.32	42.73	26.16	4.72	37.97	24.55	5.15

See Legend and Notes on page 17.

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Performance Data (Cont)
060 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB °F (°C)	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1200	57 (13.8)	42.50	42.50	2.61	41.54	41.54	2.64	40.36	40.36	2.63	38.87	38.87	2.59	37.03	37.03	2.49	34.82	34.82	2.34
	62 (16.6)	43.53	40.01	2.61	42.15	38.49	2.64	40.55	40.24	2.63	38.94	38.94	2.59	37.09	37.09	2.49	34.87	34.87	2.34
	63* (17.2)	44.37	32.51	2.61	42.92	31.12	2.63	41.20	29.70	2.63	39.14	28.21	2.59	36.69	26.66	2.49	33.85	25.05	2.34
	67 (19.4)	47.96	33.87	2.59	46.38	32.46	2.62	44.50	31.00	2.62	42.28	29.49	2.58	39.65	27.93	2.49	36.60	26.30	2.33
1370	72 (22.2)	52.94	27.58	2.56	51.15	26.23	2.60	49.07	24.86	2.60	46.63	23.45	2.57	43.75	21.98	2.48	40.44	20.47	2.33
	57 (13.8)	44.36	44.36	2.67	43.29	43.29	2.69	41.98	41.98	2.68	40.36	40.36	2.63	38.36	38.36	2.53	35.98	35.98	2.37
	62 (16.6)	44.59	44.18	2.67	43.36	43.36	2.69	42.05	42.05	2.68	40.42	40.42	2.63	38.42	38.42	2.53	36.03	36.03	2.37
	63* (17.2)	45.25	34.73	2.67	43.69	33.28	2.69	41.88	31.80	2.68	39.71	30.26	2.63	37.17	28.64	2.53	34.23	26.95	2.37
1545	67 (19.4)	48.88	36.25	2.65	47.18	34.77	2.68	45.19	33.26	2.67	42.87	31.70	2.62	40.13	30.07	2.53	36.99	28.37	2.37
	72 (22.2)	53.90	29.08	2.62	52.00	27.69	2.65	49.80	26.28	2.65	47.23	24.83	2.61	44.23	23.32	2.52	40.79	21.77	2.36
	57 (13.8)	45.96	45.96	2.73	44.78	44.78	2.75	43.35	43.35	2.73	41.59	41.59	2.67	39.46	39.46	2.57	36.92	36.92	2.40
	62 (16.6)	46.03	46.03	2.73	44.84	44.84	2.75	43.41	43.41	2.73	41.65	41.65	2.67	39.51	39.51	2.57	36.97	36.97	2.40
1545	63* (17.2)	45.92	36.92	2.73	44.29	35.42	2.75	42.38	33.88	2.73	40.14	32.27	2.68	37.53	30.58	2.57	34.57	34.35	2.41
	67 (19.4)	49.57	38.62	2.71	47.78	37.08	2.73	45.71	35.51	2.72	43.29	33.88	2.67	40.48	32.18	2.57	37.28	30.36	2.40
	72 (22.2)	54.62	30.56	2.69	52.62	29.14	2.71	50.31	27.69	2.71	47.64	26.20	2.66	44.54	24.66	2.56	40.98	23.08	2.39

See Legend and Notes on page 17.

060 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM	EWB °F (°C)	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW	Capacity MBtuh		Total Syst KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1750	57 (13.8)	58.66	58.66	3.81	55.57	55.57	4.17	52.33	52.33	4.58	48.92	48.92	5.04	45.32	45.32	5.57	41.58	41.58	6.16
	62 (16.6)	59.85	53.13	3.82	56.20	51.25	4.17	52.51	52.25	4.58	48.99	48.99	5.05	45.37	45.37	5.57	41.63	41.63	6.16
	63* (17.2)	60.83	43.11	3.82	57.05	41.43	4.18	53.16	39.70	4.58	49.10	37.91	5.04	44.88	36.06	5.56	40.58	34.17	6.13
	67 (19.4)	65.32	44.77	3.86	61.22	43.05	4.22	57.00	41.30	4.63	52.61	39.48	5.10	48.03	37.60	5.62	43.40	35.70	6.20
	72 (22.2)	71.52	36.12	3.90	67.01	34.50	4.27	62.34	32.84	4.69	57.48	31.12	5.17	52.44	29.35	5.70	47.35	27.57	6.29
2000	57 (13.8)	60.99	60.99	3.90	57.68	57.68	4.26	54.22	54.22	4.68	50.58	50.58	5.15	46.74	46.74	5.68	42.79	42.79	6.27
	62 (16.6)	61.23	60.84	3.90	57.75	57.75	4.26	54.29	54.29	4.68	50.64	50.64	5.15	46.80	46.80	5.68	42.83	42.83	6.27
	63* (17.2)	61.92	45.99	3.91	57.99	44.25	4.26	53.95	42.45	4.67	49.76	40.60	5.13	45.40	38.65	5.65	41.00	36.66	6.22
	67 (19.4)	66.43	47.87	3.94	62.19	46.10	4.30	57.80	44.27	4.72	53.27	42.39	5.19	48.55	40.42	5.71	43.81	38.42	6.29
	72 (22.2)	72.71	38.07	3.98	68.00	36.40	4.35	63.17	34.70	4.78	58.16	32.94	5.26	52.95	31.12	5.79	47.73	29.31	6.37
2250	57 (13.8)	62.91	62.91	3.99	59.42	59.42	4.35	55.76	55.76	4.77	51.93	51.93	5.25	47.89	47.89	5.78	43.74	43.74	6.37
	62 (16.6)	62.99	62.99	3.99	59.49	59.49	4.36	55.83	55.83	4.77	51.99	51.99	5.25	47.94	47.94	5.78	43.79	43.79	6.37
	63* (17.2)	62.73	48.75	3.99	58.69	46.95	4.35	54.54	45.08	4.76	50.24	43.14	5.22	45.80	41.08	5.73	41.35	38.84	6.30
	67 (19.4)	67.27	50.85	4.02	62.89	49.01	4.39	58.40	47.12	4.80	53.75	45.15	5.27	48.94	43.08	5.80	44.15	40.88	6.38
	72 (22.2)	73.56	39.95	4.06	68.73	38.24	4.43	63.76	36.50	4.86	58.61	34.70	5.34	53.29	32.85	5.87	47.96	31.01	6.46

See Legend and Notes on page 17.

Performance Data (Cont)

*At 75 °F (24 °C) entering dry bulb-Tennessee Valley Authority (TVA) rating conditions; all others at 80 °F (27 °C) dry bulb.

LEGEND

- BF— Bypass Factor
- edb— Entering Dry-Bulb
- Ewb— Entering Wet-Bulb
- kW — Total Unit Power Input
- SHC— Sensible Heat Capacity (1000 Btuh)
- TC — Total Capacity (1000 Btuh) (net)
- rh—Relative Humidity

COOLING NOTES:

- 1. Ratings are net; they account for the effects of the evaporator-fan motor power and heat.
- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. The following formulas may be used:

$$t_{ldb} = t_{edb} - \frac{\text{Sensible capacity (Btuh)}}{1.10 \times \text{CFM}}$$

$$t_{lwb} = \text{Wet-bulb temperature corresponding to enthalpy air leaving evaporator coil (} t_{hwb} \text{)}$$

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{(4.5 \times \text{CFM})}$$

Where: h_{ewb} = Enthalpy of air entering evaporator coil

- 4. The SHC is based on 80° F (26.6°C) edb temperature of air entering evaporator coil. Below 80°F (26.6°C) edb, subtract (corr factor x cfm) from SHC. Above 80° F (26.6°C) edb, add (corr factor x cfm) to SHC. Correction Factor = 1.10 x (1 + BF) x (edb - 80).
- 5. Integrated capacity is maximum (instantaneous) capacity less the effect of frost on the outdoor coil and the heat required to defrost it.

Gas Adjustment
Natural Gas Orifice Sizes and Manifold Pressure
Single and Three Phase Models

Nameplate Input (Btu/hr)		Altitude of Installation (FT. Above Sea Level) U.S.A.*
		0 to 2000 (0-610 m)
45,000	Orifice No. (Qty)	0.125-in.
	Manifold Press. (in. W.C.)	3.2~3.8
60,000	Orifice No. (Qty)	28 (1)
	Manifold Press. (in. W.C.)	3.2~3.8
89,000	Orifice No. (Qty)	18 (1)
	Manifold Press. (in. W.C.)	3.2~3.8

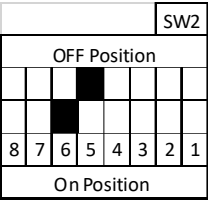
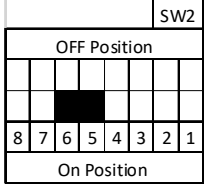
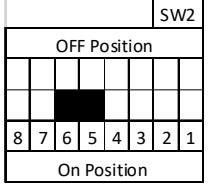
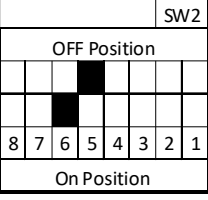
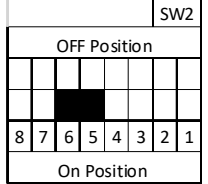
*. In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above sea level.
In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
For Canadian Installations from 2000 to 4500 ft (610-1372 m), use U.S.A. column 2001 to 3000 ft (611 to 914 m).

High Altitude Compensation, Natural Gas - Single and Three Phase Models

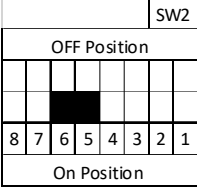
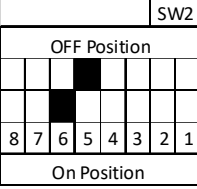
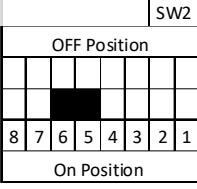
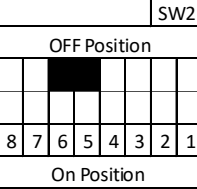
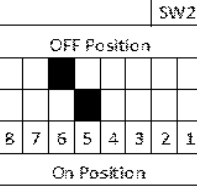
Nameplate Input (Btu/hr)	Rated Heating Input (Btu/hr), Natural Gas at Installation Altitude Above Sea Level, U.S.A.*
	0 to 2000 ft (0-610 m)
45,000	45,000
60,000	60,000
89,000	89,000

*. In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above sea level.
In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
For Canadian Installations from 2000 to 4500 ft (610-1372 m), use U.S.A. column 2001 to 3000 ft (611 to 914 m).

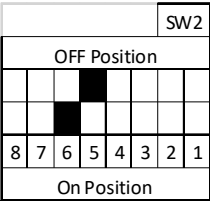
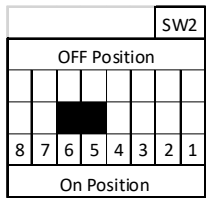
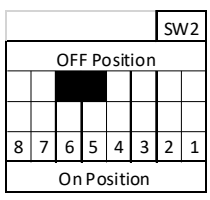
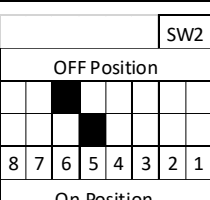
Dry Airflow Delivery* - Continuous Fan Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase

Unit Size	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
24040		2	CFM	512	460	344	212	--	--	--	--	--	--
			BHP	0.06	0.06	0.07	0.07	--	--	--	--	--	--
		1	CFM	712	625	531	440	344.4	207.8	--	--	--	--
			BHP	0.09	0.10	0.10	0.10	0.11	0.11	--	--	--	--
24060		1	CFM	712	625	531	440	344.4	207.8	--	--	--	--
			BHP	0.09	0.10	0.10	0.10	0.11	0.11	--	--	--	--
30040		2	CFM	512	460	344	212	--	--	--	--	--	--
			BHP	0.06	0.06	0.07	0.07	--	--	--	--	--	--
		1	CFM	712	625	531	440	344.4	207.8	--	--	--	--
			BHP	0.09	0.10	0.10	0.10	0.11	0.11	--	--	--	--

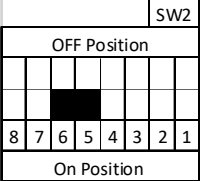
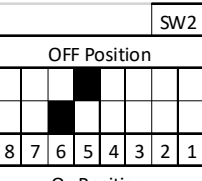
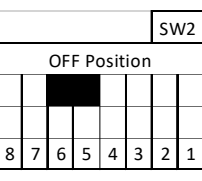
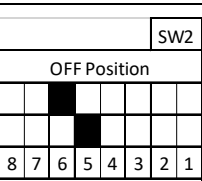
Dry Airflow Delivery* - Continuous Fan Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
30060		1	CFM	712	625	531	440	344.4	207.8	--	--	--	--
			BHP	0.09	0.10	0.10	0.10	0.11	0.11	--	--	--	--
36060		2	CFM	956	801	727	655	580	507	448	391	340.3	287.9
			BHP	0.11	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.14	0.15
		1	CFM	980	882	814	747	678.8	608.4	545.1	481.7	431.8	383.6
			BHP	0.11	0.11	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17
		4	CFM	1028	964	901	838	774	711	647	588	532	484
			BHP	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.19	0.19
		3	CFM	1178	1123	1068	1011	955	900	842	782	725	667.7
			BHP	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25

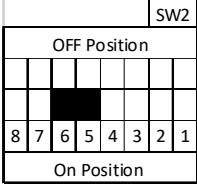
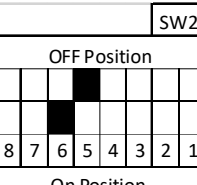
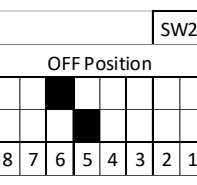
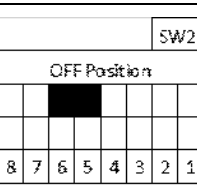
Dry Airflow Delivery* - Continuous Fan Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
42060		2	CFM	956	801	727	655	580	507	448	391	340.3	287.9
			BHP	0.11	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.14	0.15
		1	CFM	980	882	814	747	678.8	608.4	545.1	481.7	431.8	383.6
			BHP	0.11	0.11	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17
		4	CFM	1164	1107	1051	995	939	882	824	767	711	656
			BHP	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24
		3	CFM	1310	1260	1211	1163	1113	1065	1013	961	907	852.1
			BHP	0.22	0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31

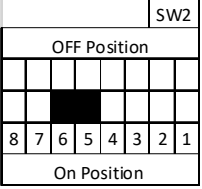
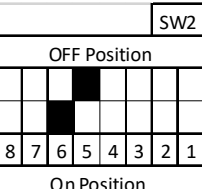
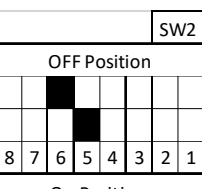
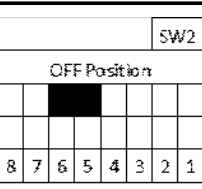
Dry Airflow Delivery* - Continuous Fan Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
42090		1	CFM	956	801	727	655	580	506.8	447.7	391	340.3	287.9
			BHP	0.11	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.14	0.15
		2	CFM	980	882	814	747	679	608	545	481.7	431.8	383.6
			BHP	0.11	0.11	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17
		4	CFM	1164	1107	1051	995	939	882	824	767	711	656
			BHP	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24
		3	CFM	1310	1260	1211	1163	1113	1065	1013	961	907	852.1
			BHP	0.22	0.22	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31

Dry Airflow Delivery* - Continuous Fan Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
48090		1	CFM	923	812	741	677	613.6	549.4	494.3	443.8	386.7	338.1
			BHP	0.10	0.10	0.11	0.11	0.12	0.13	0.14	0.14	0.15	0.16
		2	CFM	945	885	820	757	696	638	579	527.3	480.2	429.1
			BHP	0.11	0.12	0.12	0.13	0.14	0.15	0.16	0.16	0.17	0.18
		3	CFM	1102	1051	999	945	890	837	785	734	681	634.3
			BHP	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24
		4	CFM	1297	1253	1207	1163	1115	1066	1018	974	931	888
			BHP	0.23	0.24	0.24	0.26	0.27	0.27	0.28	0.29	0.30	0.31

Dry Airflow Delivery* - Continuous Fan Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
60090		1	CFM	923	812	741	677	613.6	549.4	494.3	443.8	386.7	338.1
			BHP	0.10	0.10	0.11	0.11	0.12	0.13	0.14	0.14	0.15	0.16
		2	CFM	945	885	820	757	696	638	579	527.3	480.2	429.1
			BHP	0.11	0.12	0.12	0.13	0.14	0.15	0.16	0.16	0.17	0.18
		3	CFM	1102	1051	999	945	890	837	785	734	681	634.3
			BHP	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24
		4	CFM	1297	1253	1207	1163	1115	1066	1018	974	931	888
			BHP	0.23	0.24	0.24	0.26	0.27	0.27	0.28	0.29	0.30	0.31

Notes:

DIP Switch KEY	
OFF	 Indicates Dip Switch is set to "ON" Position
ON	
OFF	 Indicates Dip Switch is set to "OFF" Position
ON	

*Air delivery values are without air filter and are for dry coil (See Wet Coil Pressure Drop Table)

"High Static Cooling" = Only to be used for cooling function (**Not allowed for heating function**)

"NA" = Not allowed for heating speed

NOTE: Deduct field-supplied air filter pressure drop and wet coil pressure drop to obtain static pressure available for ducting.

Dry Airflow Delivery* - Heating Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase

Unit Size	Heating Rise °F (°C)	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
24040	25 - 55 (14 - 31)	SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	5	CFM	900	824	753	680	604	528	446	344	240	130
				BHP	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19
				Gas Heat Rise (°F)	37	41	44	49	55	NA	NA	NA	NA	NA
				Gas Heat Rise (°C)	21	23	25	27	31	NA	NA	NA	NA	NA
		SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	7	CFM	956	883	817	747	676	604	529	450	348	241
				BHP	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22
				Gas Heat Rise (°F)	35	38	41	45	50	55	NA	NA	NA	NA
				Gas Heat Rise (°C)	19	21	23	25	28	31	NA	NA	NA	NA
		SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	6	CFM	1063	994	929	866	803	741	673	610	528	453
				BHP	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.27
Gas Heat Rise (°F)	31			34	36	39	42	45	50	55	NA	NA		
Gas Heat Rise (°C)	17			19	20	21	23	25	28	31	NA	NA		
24060	25 - 55 (14 - 31)	SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	6	CFM	956	883	817	747	676	604	529	450	348	241
				BHP	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22
				Gas Heat Rise (°F)	47	51	55	NA	NA	NA	NA	NA	NA	NA
				Gas Heat Rise (°C)	26	28	30	NA	NA	NA	NA	NA	NA	NA
		SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	5	CFM	1122	1064	1003	943	882	820	758	697	632	567
				BHP	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.31
				Gas Heat Rise (°F)	40	42	45	47	51	54	NA	NA	NA	NA
				Gas Heat Rise (°C)	22	23	25	26	28	30	NA	NA	NA	NA

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Dry Airflow Delivery* - Heating Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Heating Rise °F (°C)	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
30040	25 - 55 (14 - 31)	SW2 OFF Position 87654321 On Position	5	CFM	900	824	753	680	604	528	446	344	240	130
				BHP	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19
				Gas Heat Rise (°F)	37	41	44	49	55	NA	NA	NA	NA	NA
				Gas Heat Rise (°C)	21	23	25	27	31	NA	NA	NA	NA	NA
		6	CFM	1063	994	929	866	803	741	673	610	528	453	
			BHP	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.27	
			Gas Heat Rise (°F)	31	34	36	39	42	45	50	55	NA	NA	
Gas Heat Rise (°C)	17	19	20	21	23	25	28	31	NA	NA				
30060	25 - 55 (14 - 31)	SW2 OFF Position 87654321 On Position	6	CFM	956	883	817	747	676	604	529	450	348	241
				BHP	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22
				Gas Heat Rise (°F)	47	51	55	NA	NA	NA	NA	NA	NA	NA
				Gas Heat Rise (°C)	26	28	30	NA	NA	NA	NA	NA	NA	NA
		5	CFM	1122	1064	1003	943	882	820	758	697	632	567	
			BHP	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.31	
			Gas Heat Rise (°F)	40	42	45	47	51	54	NA	NA	NA	NA	
			Gas Heat Rise (°C)	22	23	25	26	28	30	NA	NA	NA	NA	

Dry Airflow Delivery* - Heating Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Heating Rise °F (°C)	DIP SWITCH SETTING	Tap	ESP (in. W.C.)																																																																		
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1																																																								
36060	25 - 55 (14 - 31)	SW2 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																																									8	7	6	5	4	3	2	1						5	CFM	1190	1134	1085	1025	972	915	861	804	746	692			
		8	7	6	5	4	3	2	1																																																													
		BHP	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.25																																																										
		Gas Heat Rise (°F)	38	39	41	44	46	49	52	NA	NA	NA																																																										
		Gas Heat Rise (°C)	21	22	23	24	26	27	29	NA	NA	NA																																																										
		SW2 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																																											8	7	6	5	4	3	2	1							7	CFM	1299	1246	1196	1146	1095	1043	990	937	886	825
8	7	6	5	4	3	2	1																																																															
BHP	0.21	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29																																																												
Gas Heat Rise (°F)	34	36	37	39	41	43	45	48	50	54																																																												
Gas Heat Rise (°C)	19	20	21	22	23	24	25	26	28	30																																																												
SW2 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																																											8	7	6	5	4	3	2	1							6	CFM	1385	1323	1274	1223	1176	1130	1082	1032	979	928		
8	7	6	5	4	3	2	1																																																															
BHP	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33																																																												
Gas Heat Rise (°F)	32	34	35	36	38	40	41	43	46	48																																																												
Gas Heat Rise (°C)	18	19	19	20	21	22	23	24	25	27																																																												
42060	25 - 55 (14 - 31)	SW2 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																																									8	7	6	5	4	3	2	1						5	CFM	1190	1134	1085	1025	972	915	861	804	746	692			
		8	7	6	5	4	3	2	1																																																													
		BHP	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.25																																																										
		Gas Heat Rise (°F)	38	39	41	44	46	49	52	NA	NA	NA																																																										
		Gas Heat Rise (°C)	21	22	23	24	26	27	29	NA	NA	NA																																																										
SW2 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																																											8	7	6	5	4	3	2	1							6	CFM	1385	1323	1274	1223	1176	1130	1082	1032	979	928		
8	7	6	5	4	3	2	1																																																															
BHP	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33																																																												
Gas Heat Rise (°F)	32	34	35	36	38	40	41	43	46	48																																																												
Gas Heat Rise (°C)	18	19	19	20	21	22	23	24	25	27																																																												

Dry Airflow Delivery* - Heating Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Heating Rise °F (°C)	DIP SWITCH SETTING	Tap	ESP (in. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
42090	35 - 65 (19 - 36)	SW2 OFF Position 87654321 On Position	5	CFM	1391	1340	1294	1247	1199	1151	1104	1054	1003	946
		BHP		0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	
		Gas Heat Rise (°F)		48	49	51	53	55	58	60	63	NA	NA	
		Gas Heat Rise (°C)		26	27	28	29	31	32	33	35	NA	NA	
		SW2 OFF Position 87654321 On Position	7	CFM	1488	1441	1396	1352	1307	1261	1217	1169	1120	1073
		BHP		0.29	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.38	0.39	
		Gas Heat Rise (°F)		22	23	24	25	26	27	28	29	NA	NA	
		Gas Heat Rise (°C)		12	13	13	14	14	15	15	16	NA	NA	
		SW2 OFF Position 87654321 On Position	6	CFM	1561	1522	1480	1439	1398	1360	1313	1270	1226	1178
		BHP		0.34	0.35	0.36	0.38	0.39	0.40	0.41	0.42	0.44	0.45	
		Gas Heat Rise (°F)		42	44	45	46	47	49	50	52	54	56	
		Gas Heat Rise (°C)		24	24	25	26	26	27	28	29	30	31	
48090	35 - 65 (19 - 36)	SW2 OFF Position 87654321 On Position	5	CFM	1383	1339	1296	1254	1209	1163	1119	1076	1033	989
		BHP		0.26	0.27	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.36	
		Gas Heat Rise (°F)		48	49	51	53	55	57	59	62	64	NA	
		Gas Heat Rise (°C)		27	27	28	29	30	32	33	34	36	NA	
		SW2 OFF Position 87654321 On Position	6	CFM	1550	1511	1473	1434	1399	1362	1319	1278	1238	1202
		BHP		0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.44	0.45	0.46	
		Gas Heat Rise (°F)		43	44	45	46	47	49	50	52	53	55	
		Gas Heat Rise (°C)		24	24	25	26	26	27	28	29	30	31	

Dry Airflow Delivery* - Heating Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Heating Rise °F (°C)	DIP SWITCH SETTING	Tap	ESP (in. W.C.)																																																															
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1																																																					
60090	35 - 65 (19 - 36)	<table><tr><td colspan="8"></td><td>SW2</td></tr><tr><td colspan="9">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="9">On Position</td></tr></table>									SW2	OFF Position																											8	7	6	5	4	3	2	1	On Position									5	CFM	1383	1339	1296	1254	1209	1163	1119	1076	1033	989
											SW2																																																								
			OFF Position																																																																
		8	7	6	5	4	3	2	1																																																										
		On Position																																																																	
		BHP	0.26	0.27	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.36																																																							
		Gas Heat Rise (°F)	48	49	51	53	55	57	59	62	64	NA																																																							
		Gas Heat Rise (°C)	27	27	28	29	30	32	33	34	36	NA																																																							
<table><tr><td colspan="8"></td><td>SW2</td></tr><tr><td colspan="9">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="9">On Position</td></tr></table>									SW2	OFF Position																											8	7	6	5	4	3	2	1	On Position									6	CFM	1550	1511	1473	1434	1399	1362	1319	1278	1238	1202		
									SW2																																																										
	OFF Position																																																																		
8	7	6	5	4	3	2	1																																																												
On Position																																																																			
BHP	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.44	0.45	0.46																																																									
Gas Heat Rise (°F)	43	44	45	46	47	49	50	52	53	55																																																									
Gas Heat Rise (°C)	24	24	25	26	26	27	28	29	30	31																																																									

Notes:

DIP Switch KEY

OFF

ON

Indicates Dip Switch is set to "ON" Position

OFF

ON

Indicates Dip Switch is set to "OFF" Position

*Air delivery values are without air filter and are for dry coil (See Wet Coil Pressure Drop Table)
"High Static Cooling" = Only to be used for cooling function (Not allowed for heating function)
"NA" = Not allowed for heating speed
NOTE: Deduct field-supplied air filter pressure drop and wet coil pressure drop to obtain static pressure available for ducting.

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
24040	Low Stage Cooling	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	2	CFM	512	460	344	212	--	--	--	--	--	--
		BHP	0.06		0.06	0.07	0.07	--	--	--	--	--	--	--	
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	1	CFM	712	625	531	440	344	208	--	--	--	--
		BHP	0.09		0.10	0.10	0.10	0.11	0.11	--	--	--	--	--	
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	4	CFM	768	686	604	520	430	327	210	115	--	--
		BHP	0.11		0.11	0.12	0.12	0.13	0.13	0.13	0.13	--	--	--	
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	3	CFM	888	818	750	679	606	511	425	320	238	--
		BHP	0.18		0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	--	--	

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
24040	High Stage Cooling	SW1 OFF Position </													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
24060	Low Stage Cooling	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td> SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td>1</td><td>CFM</td><td>712</td><td>625</td><td>531</td><td>440</td><td>344</td><td>208</td><td>--</td><td>--</td><td>--</td><td>--</td></td>	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td>1</td> <td>CFM</td> <td>712</td> <td>625</td> <td>531</td> <td>440</td> <td>344</td> <td>208</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td>	1	CFM	712	625	531	440	344	208	--	--	--	--
		BHP	0.09	0.10	0.10	0.10	0.11	0.11	--	--	--	--			
		CFM	768	686	604	520	430	327	210	115	--	--			
		BHP	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.13	--	--			
		CFM	804	725	643	555	471	380	281	--	--	--			
		BHP	0.11	0.12	0.13	0.13	0.13	0.14	0.14	--	--	--			
		CFM	956	883	817	747	676	604	529	450	348	241			
		BHP	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22			

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
24060	High Stage Cooling	SW1 OFF Position													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)																																																																																								
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1																																																																														
30040	Low Stage Cooling	SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td></tr></table> On Position																										8	7	6	5	4	3	2	1					Dehumidification Not Available	2	CFM	512	460	344	212	--	--	--	--	--	--																																									
		8	7	6	5	4	3	2	1																																																																																				
		BHP	0.06	0.06	0.07	0.07	--	--	--	--	--	--	--																																																																																
		SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																											8	7	6	5	4	3	2	1						SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																											8	7	6	5	4	3	2	1						1	CFM	712	625	531	440	344	208	--	--	--	--
8	7	6	5	4	3	2	1																																																																																						
8	7	6	5	4	3	2	1																																																																																						
BHP	0.09	0.10	0.10	0.10	0.11	0.11	--	--	--	--																																																																																			
SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																											8	7	6	5	4	3	2	1						SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																											8	7	6	5	4	3	2	1						3	CFM	888	812	739	663	589	505	424	322	215	--		
8	7	6	5	4	3	2	1																																																																																						
8	7	6	5	4	3	2	1																																																																																						
BHP	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	--																																																																																			
SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																											8	7	6	5	4	3	2	1						SW1 OFF Position <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table> On Position																											8	7	6	5	4	3	2	1						4	CFM	900	824	753	680	604	528	446	344	240	130		
8	7	6	5	4	3	2	1																																																																																						
8	7	6	5	4	3	2	1																																																																																						
BHP	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19																																																																																			

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
30040	High Stage Cooling	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	5	CFM	900	824	753	680	604	528	446	344	240	130
		BHP	0.15		0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	6	CFM	1063	994	929	866	803	741	673	610	528	453
		BHP	0.21		0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.27		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	7	CFM	1138	1075	1015	953	891	831	769	707	641	568
		BHP	0.25		0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.31		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	8	CFM	1268	1211	1155	1103	1049	997	941	887	828	775
		BHP	0.34		0.35	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.41		
30040	High Static Cooling†	SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	9	CFM	1369	1308	1255	1204	1152	1105	1052	999	909	806
		BHP	0.40		0.41	0.41	0.42	0.43	0.44	0.45	0.46	0.44	0.42		

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)									
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
30060	Low Stage Cooling	SW1 OFF Position <												

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
30060	High Stage Cooling	SW1 OFF Position </													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
36060	Low Stage Cooling	SW1 OFF Position													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
36060	High Stage Cooling	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	5	CFM	1190	1134	1085	1025	972	915	861	804	746	692
		BHP	0.17		0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24	0.25		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	7	CFM	1299	1246	1196	1146	1095	1043	990	937	886	825
		BHP	0.21		0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	6	CFM	1385	1323	1274	1223	1176	1130	1082	1032	979	928
		BHP	0.24		0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	8	CFM	1423	1377	1331	1288	1240	1192	1147	1097	1047	998
		BHP	0.26		0.27	0.28	0.29	0.30	0.32	0.33	0.34	0.35	0.36		
36060	High Static Cooling†	SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	9	CFM	1511	1466	1420	1378	1338	1293	1245	1200	1156	1109
		BHP	0.30		0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40		

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
42060	Low Stage Cooling	SW1 OFF Position </													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)									
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
42060	High Stage Cooling	SW1 OFF Position												

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)									
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
42090	Low Stage Cooling	SW1 OFF Position												

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
42090	High Stage Cooling	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	5	CFM	1391	1340	1294	1247	1199	1151	1104	1054	1003	946
		BHP	0.25		0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	7	CFM	1488	1441	1396	1352	1307	1261	1217	1169	1120	1073
		BHP	0.29		0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.38	0.39		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	6	CFM	1561	1522	1480	1439	1398	1360	1313	1270	1226	1178
		BHP	0.34		0.35	0.36	0.38	0.39	0.40	0.41	0.42	0.44	0.45		
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	8	CFM	1605	1567	1521	1484	1445	1403	1363	1317	1274	1228
		BHP	0.36		0.37	0.38	0.39	0.41	0.42	0.43	0.44	0.46	0.47		
42090	High Static Cooling†	SW2 OFF Position 8 7 6 5 4 3 2 1 On Position	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position	9	CFM	1679	1638	1599	1562	1524	1488	1449	1405	1361	1319
		BHP	0.41		0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.51	0.52		

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
48090	Low Stage Cooling	SW1 OFF Position </													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
48090	High Stage Cooling	SW1 OFF Position													

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
60090	Low Stage Cooling	SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td>Dehumidification Not Available</td> <td>1</td> <td>CFM</td> <td>923</td> <td>812</td> <td>741</td> <td>677</td> <td>614</td> <td>549</td> <td>494</td> <td>444</td> <td>387</td> <td>338</td>	Dehumidification Not Available	1	CFM	923	812	741	677	614	549	494	444	387	338
		BHP	0.10	0.10	0.11	0.11	0.12	0.13	0.14	0.14	0.15	0.16			
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td>Dehumidification Not Available</td> <td>2</td> <td>CFM</td> <td>945</td> <td>885</td> <td>820</td> <td>757</td> <td>696</td> <td>638</td> <td>579</td> <td>527</td> <td>480</td> <td>429</td>	Dehumidification Not Available	2	CFM	945	885	820	757	696	638	579	527	480	429
		BHP	0.11	0.12	0.12	0.13	0.14	0.15	0.16	0.16	0.17	0.18			
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td>Dehumidification Not Available</td> <td>3</td> <td>CFM</td> <td>1102</td> <td>1051</td> <td>999</td> <td>945</td> <td>890</td> <td>837</td> <td>785</td> <td>734</td> <td>681</td> <td>634</td>	Dehumidification Not Available	3	CFM	1102	1051	999	945	890	837	785	734	681	634
		BHP	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24			
		SW1 OFF Position 8 7 6 5 4 3 2 1 On Position <td>Dehumidification Not Available</td> <td>4</td> <td>CFM</td> <td>1297</td> <td>1253</td> <td>1207</td> <td>1163</td> <td>1115</td> <td>1066</td> <td>1018</td> <td>974</td> <td>931</td> <td>888</td>	Dehumidification Not Available	4	CFM	1297	1253	1207	1163	1115	1066	1018	974	931	888
		BHP	0.23	0.24	0.24	0.26	0.27	0.27	0.28	0.29	0.30	0.31			

Dry Airflow Delivery* - Cooling Performance Horizontal and Downflow Discharge - 208/230 VAC - 1 and 3 Phase (Continued)

Unit Size	Cooling Stage	Cooling Only DIP Switch Setting	Cooling with Dehumidification DIP Switch Setting	Tap	ESP (in. W.C.)																																																																																																										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1																																																																																																
60090	High Stage Cooling	<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								Dehumidification Not Available	5	CFM	1383	1339	1296	1254	1209	1163	1119	1076	1033	989																																																
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		8	7	6	5	4	3	2	1																																																																																																						
		On Position																																																																																																													
		BHP	0.26	0.27	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.36																																																																																																			
<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								Dehumidification Not Available	6	CFM	1550	1511	1473	1434	1399	1362	1319	1278	1238	1202																																																		
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On Position																																																																																																															
BHP	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.44	0.45	0.46																																																																																																					
<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								7	CFM	1818	1783	1751	1718	1685	1652	1619	1584	1548	1512		
							SW1																																																																																																								
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BHP	0.54	0.55	0.56	0.58	0.59	0.60	0.62	0.63	0.64	0.65																																																																																																					
<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								8	CFM	1914	1881	1849	1817	1785	1755	1723	1693	1659	1618		
							SW1																																																																																																								
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8	7	6	5	4	3	2	1																																																																																																								
On Position																																																																																																															
BHP	0.62	0.63	0.65	0.66	0.67	0.69	0.70	0.71	0.73	0.74																																																																																																					
60090	High Static Cooling†	<table><tr><td colspan="7"></td><td colspan="1">SW2</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW2	OFF Position																								8	7	6	5	4	3	2	1	On Position								<table><tr><td colspan="7"></td><td colspan="1">SW1</td></tr><tr><td colspan="8">OFF Position</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td colspan="8">On Position</td></tr></table>								SW1	OFF Position																								8	7	6	5	4	3	2	1	On Position								9	CFM	1966	1933	1903	1872	1842	1811	1782	1751	1718	1619
									SW2																																																																																																						
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8	7	6	5	4	3	2	1																																																																																																								
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BHP	0.67	0.68	0.70	0.71	0.73	0.74	0.75	0.77	0.78	0.74																																																																																																					

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.

Notes:

DIP Switch KEY	
OFF	Indicates Dip Switch is set to "ON" Position
ON	
OFF	Indicates Dip Switch is set to "OFF" Position
ON	

*Air delivery values are without air filter and are for dry coil (See Wet Coil Pressure Drop Table)

†High Static Cooling" = Only to be used for cooling function (**Not allowed for heating function**)

"NA" = Not allowed for heating speed

NOTE: Deduct field-supplied air filter pressure drop and wet coil pressure drop to obtain static pressure available for ducting.

Wet Coil Pressure Drop (IN. W.C--.)

Unit Size	Standard CFM (SCFM)																
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
24	0.03	0.04	0.04	0.05	0.06												
30				0.05	0.06	0.07	0.08	0.11									
36				0.06	0.06	0.09	0.10	0.11	0.14								
42					0.05	0.05	0.06	0.07	0.08	0.08	0.09	0.09	0.11				
48							0.04	0.06	0.09	0.10	0.10	0.11	0.12	0.13	0.14		
60										0.06	0.07	0.01	0.08	0.09	0.10	0.12	0.13

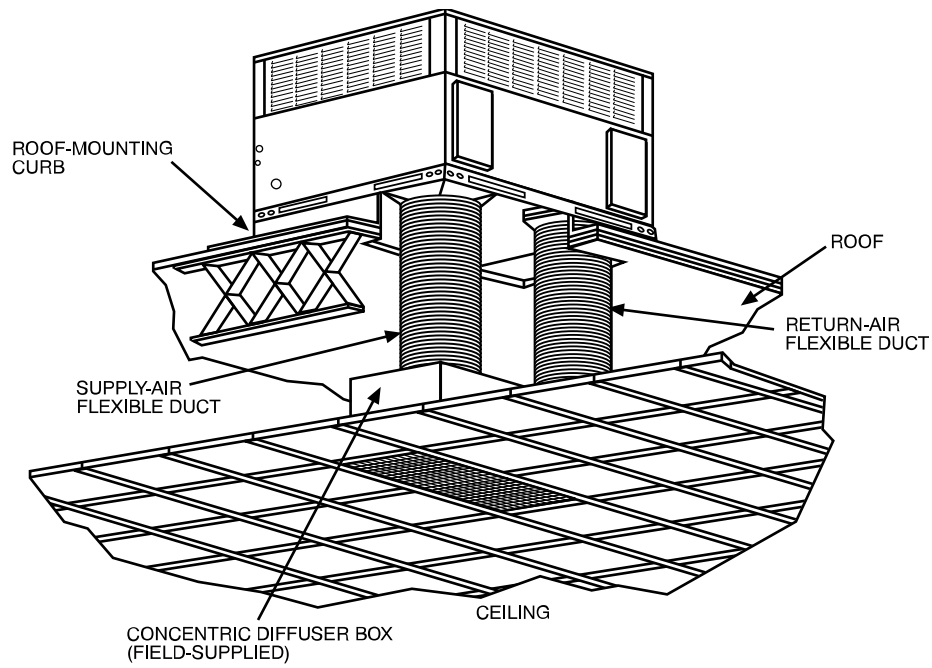
Economizer with 1-in. Filter Pressure Drop (IN. W.C.)

Filter Size in. (mm)	Cooling Tons	Standard CFM (SCFM)																
		600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
600-1400 CFM 12x20x1+12x20x1 (305x508x25+305x508x25)	2.0, 2.5	-	-	0.09	0.14	0.16	0.18	0.25	0.28	0.30	-	-	-	-	-	-	-	-
1200-1800 CFM 16x24x1+14x24x1 (406x610x25+356x610x25)	3.0, 3.5	-	-	-	-	-	-	0.10	0.11	0.12	0.13	0.14	0.16	0.16	-	-	-	-
1500-2200 CFM 16x24x1+18x24x1 (406x610x25+457x610x25)	4.0, 5.0	-	-	-	-	-	-	-	-	-	0.15	0.17	0.18	0.20	0.21	0.22	0.23	0.23

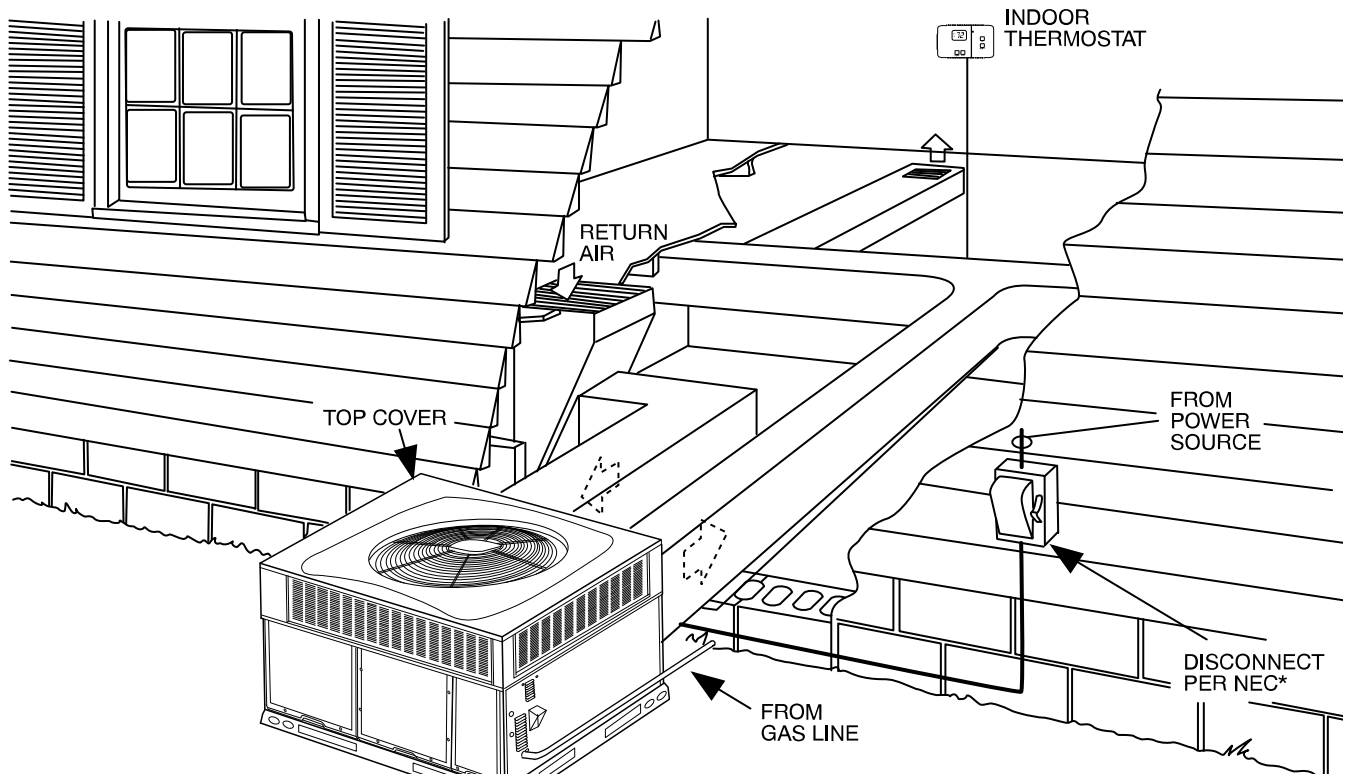
Filter Pressure Drop Table (IN. W.C.)

Filter Size in. (mm)	Cooling Tons	Standard CFM (SCFM)																
		600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
600-1400 CFM 12x20x1+12x20x1 (305x508x25+305x508x25)	2.0, 2.5	0.03	0.05	0.06	0.08	0.10	0.11	0.13	0.14	0.16	-	-	-	-	-	-	-	-
1200-1800 CFM 16x24x1+14x24x1 (406x610x25+356x610x25)	3.0, 3.5	-	-	-	-	-	-	0.07	0.08	0.09	0.09	0.10	0.11	0.12	-	-	-	-
1500-2200 CFM 16x24x1+18x24x1 (406x610x25+457x610x25)	4.0, 5.0	-	-	-	-	-	-	-	-	-	0.04	0.06	0.08	0.10	0.11	0.13	0.14	0.15

Typical Piping and Wiring



A09233



A09234

Application Data

Condensate trap — A 2-in. (50.8 mm) condensate trap must be field supplied.

Ductwork — Secure downflow discharge ductwork to roof curb. For horizontal discharge applications, attach ductwork to unit with flanges.

To convert a unit to downflow discharge — Units are equipped with factory-installed inserts in the down-flow openings. Removal of the inserts is similar to removing an electrical knock-out. Use the duct cover to seal the horizontal discharge openings in the unit. Units installed in horizontal discharge orientation do not require duct covers.

Airflow — Units are draw-thru in the cooling mode and blow-thru in the heating mode.

Electrical Data

UNIT	NOMINAL	VOLTAGE RANGE		COMPRESSOR		OFM	IFM	IDM	POWER SUPPLY	
		MIN	MAX	RLA	LRA	FLA	FLA	FLA	MCA	MOCP
24040 24060	208/230-1-60	197	253	11.7	58.3	0.7	4.1	.7	19.4	30
30040 30060	208/230-1-60	197	253	13.1	73.0	1.2	4.1	.7	21.7	30
30040 30060	208/230-3-60	197	253	8.7	58.0	1.2	4.1	.7	16.2	20
36060	208/230-1-60	197	253	15.3	83.0	1.2	6.1	.7	26.4	40
36060	208/230-3-60	197	253	11.6	73.0	1.2	6.1	.7	21.8	30
42060 42090	208/230-1-60	197	253	17.9	96.0	1.2	6.1	.7	29.7	45
42060 42090	208/230-3-60	197	253	14.2	88.0	1.2	6.1	.7	25.1	35
48090	208/230-1-60	197	253	21.2	104.0	1.2	7.5	.7	35.2	50
48090	208/230-3-60	197	253	14.0	83.1	1.2	7.5	.7	26.2	40
60090	208/230-1-60	197	253	28.8	152.9	1.2	7.5	.7	44.7	60
60090	208/230-3-60	197	253	16.2	110.0	1.2	7.5	.7	29.0	40

Maximum cooling airflow — To minimize the possibility of condensate blow-off from the evaporator, airflow through the units should not exceed 450 cfm per ton.

Minimum cooling airflow — Minimum cooling airflow is 350 cfm per ton.

Minimum ambient cooling operation temperature — All standard units have a minimum ambient operating temperature of 40°F (4°C). With accessory low ambient temperature kit, units can operate at temperatures down to 0°F (-17°C).

Minimum temperature — Air entering the heat exchanger in heating mode must be a minimum of 55°F (13°C) continuous and a maximum of 80°F (27°C) continuous.

Electrical Data (Cont)

LEGEND

FLA - Full Load Amps
 IDM - Inducer Motor
 IFM - Indoor Fan Motor
 LRA - Locked Rotor Amps
 MCA - Minimum Circuit Amps
 MOCP - Maximum Over Current Protection
 OFM - Outdoor Fan Motor
 RLA - Rated Load Amps

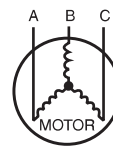
NOTES:

1. In compliance with NEC (National Electrical Code) requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be Power Supply fuse or circuit breaker.
2. Minimum wire size is based on 60 C copper wire. If other than 60 C wire is used, or if length exceeds wire length in table, determine size from NEC.
3. Unbalanced 3-Phase Supply Voltage
Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance

% Voltage imbalance

$$= 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

EXAMPLE: Supply voltage is 230-3-60.



AB = 228 v

BC = 231 v

AC = 227 v

$$\begin{aligned} \text{Average Voltage} &= \frac{228 + 231 + 227}{3} \\ &= \frac{686}{3} \\ &= 229 \end{aligned}$$

Determine maximum deviation from average voltage.

(AB) 229 - 228 = 1 v

(BC) 231 - 229 = 2 v

(AC) 229 - 227 = 2 v

Maximum deviation is 2 v.

Determine percent of voltage imbalance

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{2}{229} \\ &= 0.8\% \end{aligned}$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

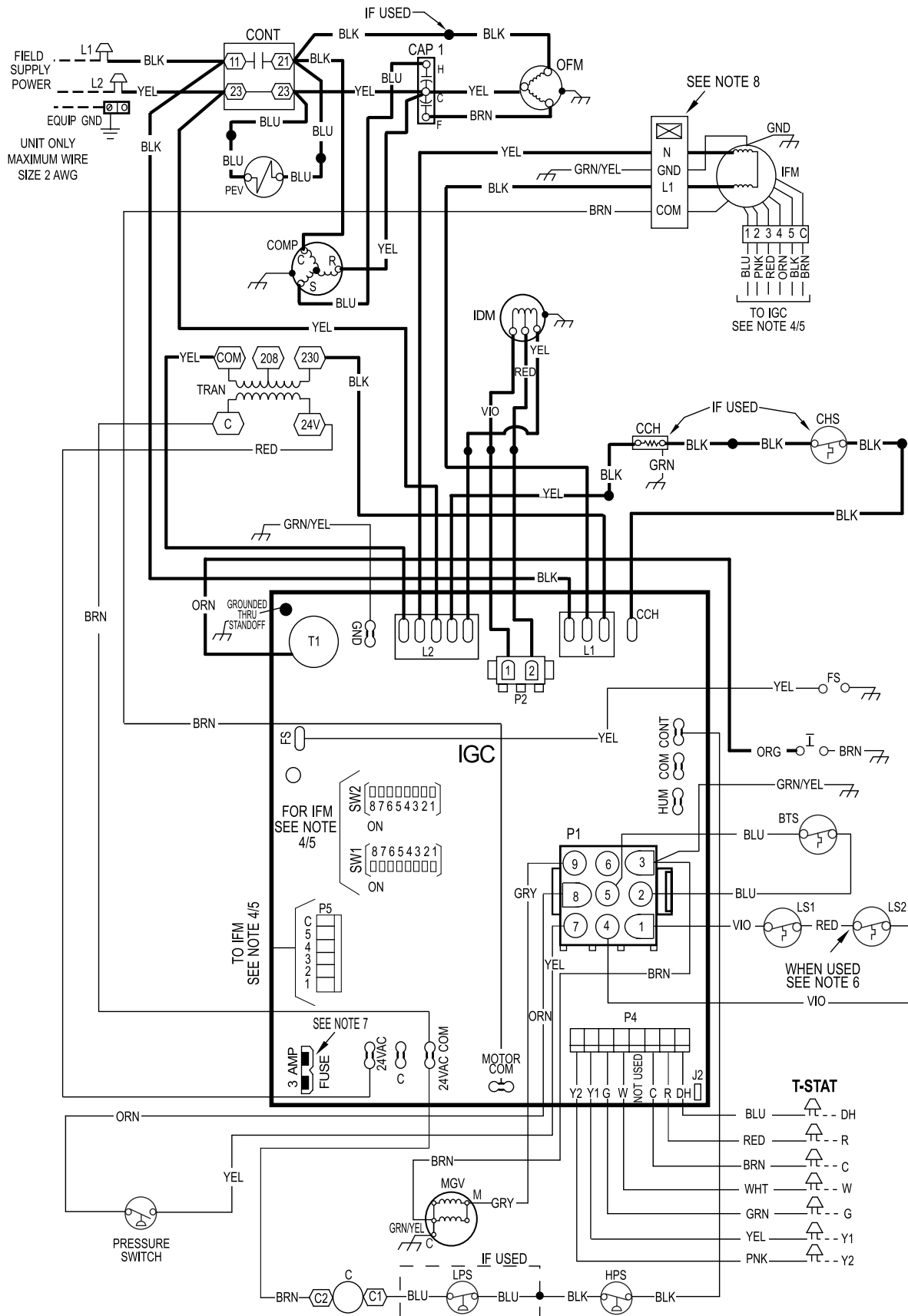
IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

Connection Wiring Schematic 208/230-1-60

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

SCHEMATIC 208/230-1-60



Ladder Wiring Schematic 208/230-1-60

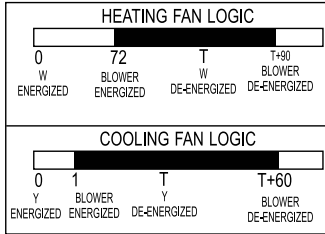
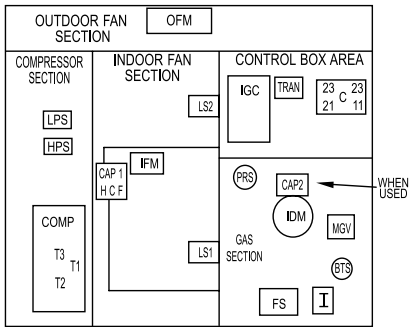
LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

LEGEND

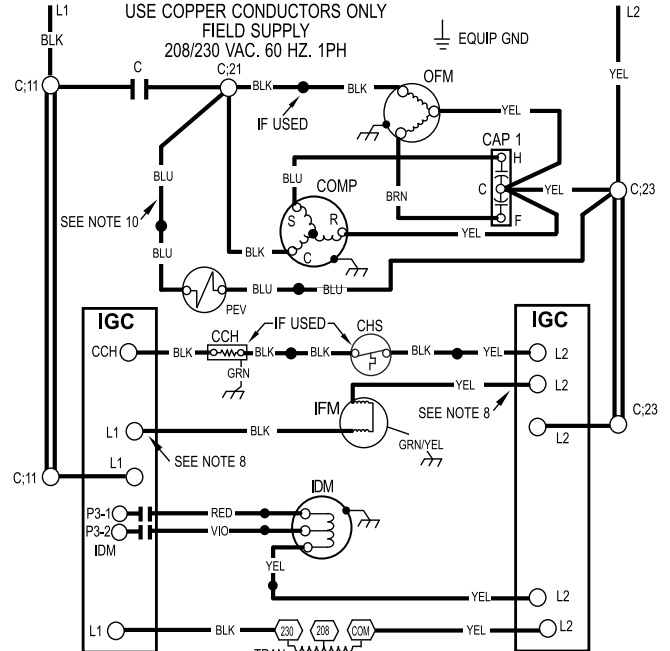
	FIELD SPICE	CONT	COMPRESSOR CONTACTOR
	TERMINAL (MARKED)	FS	EQUIP
	TERMINAL (UNMARKED)	GND	FLAME SENSOR
	SPLICE	HPS	GROUND
	SPLICE (MARKED)	I	HIGH PRESSURE SWITCH
	FACTORY LO VOLTAGE	IDM	IGNITOR
	FIELD CONTROL WIRING	IFM	INDUCED DRAFT MOTOR
	FIELD POWER WIRING	IGC	INDOOR FAN MOTOR
	ACCESSORY OR OPTIONAL WIRING	LPS	INTEGRATED GAS UNIT CONTROLLER
	FACTORY HI VOLTAGE	LS1	LOW PRESSURE SWITCH
BTS	BURNER THERMAL SWITCH	LS2	PRIMARY LIMIT SWITCH
C	CONTACTOR	MGV	SECONDARY LIMIT SWITCH
CAP1	CAPACITOR, COMP	OFM	MAIN GAS VALVE
CAP2	CAPACITOR, INDUCER (WHEN USED)	OT	OUTDOOR FAN MOTOR
CCH	CRANKCASE HEATER	PEV	QUADRUPLE TERMINAL
CHS	CRANKCASE HEATER SWITCH	TRAN	PRESSURE EQUALIZER VALVE (IF USED)
COMP	COMPRESSOR MOTOR	T-STAT	THERMOSTAT

1Ø UNIT COMPONENT ARRANGEMENT

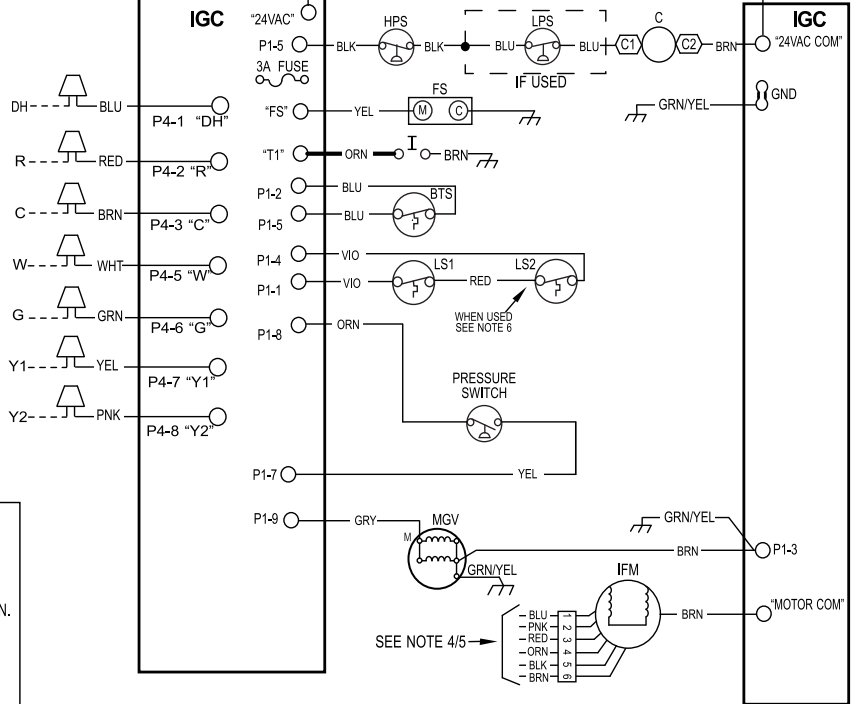


NOTES:

- IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED THEY MUST BE REPLACED WITH THE SAME WIRE OR IT'S EQUIVALENT.
- SEE PRE-SALE LITERATURE FOR THERMOSTATS.
- USE 75 DEGREES C COPPER CONDUCTORS FOR FIELD INSTALLATION.
- REFER TO INSTALLATION INSTRUCTIONS FOR CORRECT SPEED SELECTION FOR IFM.
- SEE INSTALLATION INSTRUCTIONS FOR PROPER HEATING AND COOLING CONNECTIONS FOR YOUR UNIT.
- ON SOME MODELS LS1 AND LS2 ARE WIRED IN SERIES. ON OTHER MODELS ONLY LS1 IS USED.
- THIS FUSE IS MANUFACTURED BY LITTLE FUSE, P/N 287003.
- DO NOT DISCONNECT PLUG UNDER LOAD.
- N.E.C. CLASS 2, 24V.
- PEV FOUND ON SELECT ROTARY COMPRESSORS.



T-STAT



347820-701 REV.-



347820-701 REV.-

A210160

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

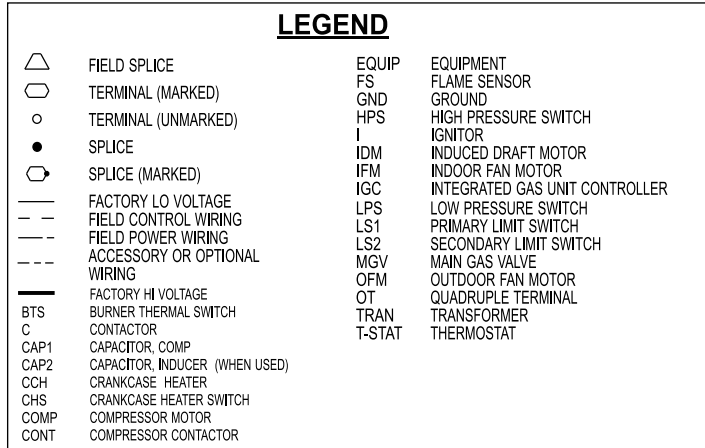
SCHEMATIC 208/230-3-60



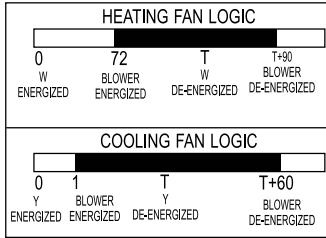
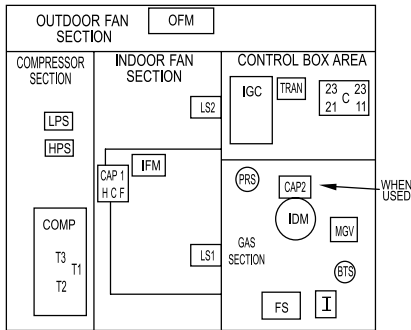
Ladder Wiring Schematic Gas Inputs 40, 60, 90 KBtu/hr 208/230-3-60

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

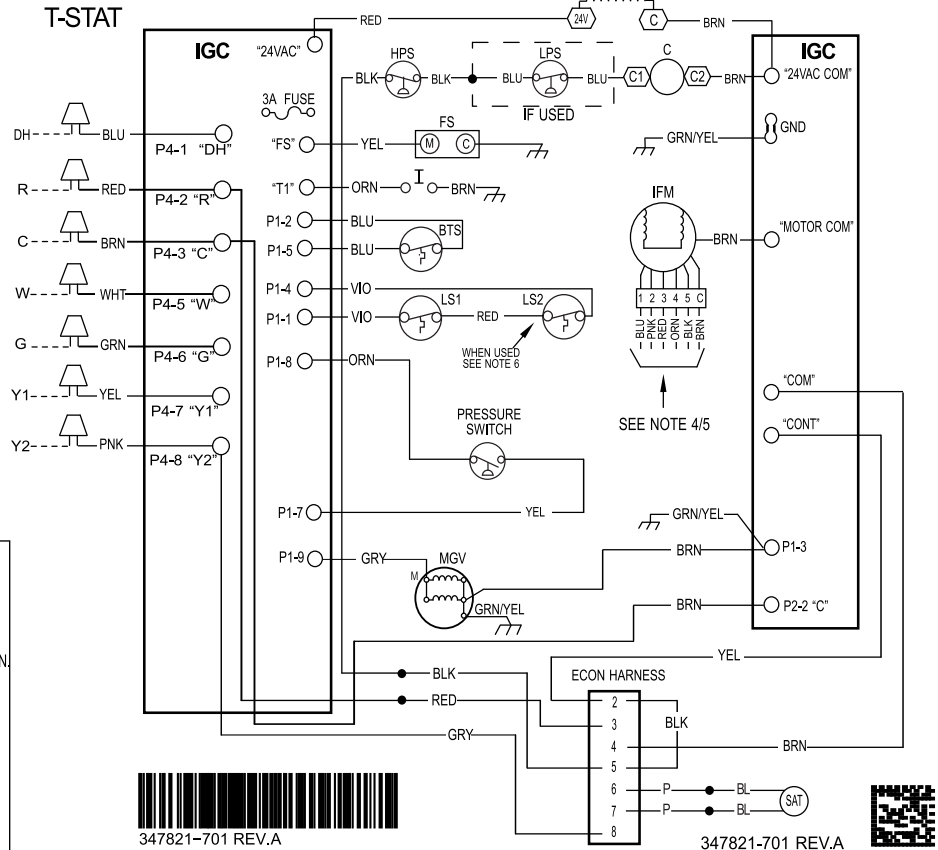
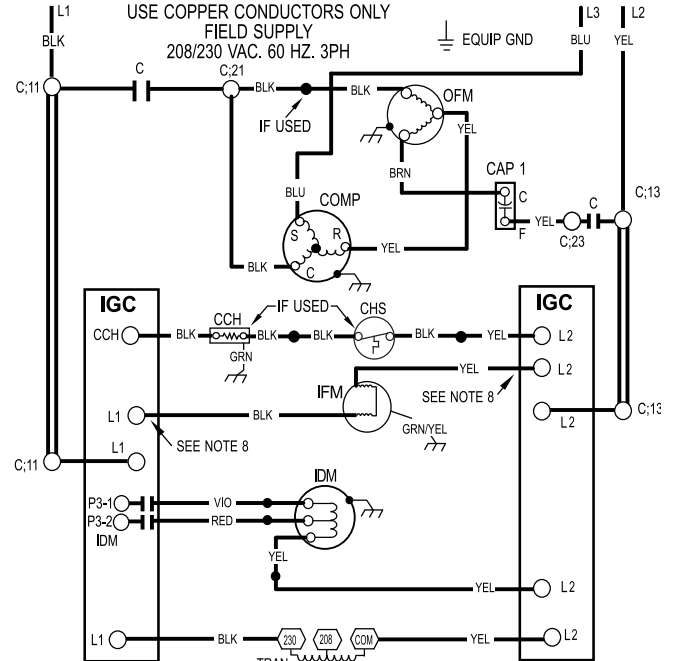


3Ø UNIT COMPONENT ARRANGEMENT



NOTES:

- IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED THEY MUST BE REPLACED WITH THE SAME WIRE OR ITS EQUIVALENT.
- SEE PRE-SALE LITERATURE FOR THERMOSTATS.
- USE 75 DEGREES C COPPER CONDUCTORS FOR FIELD INSTALLATION.
- REFER TO INSTALLATION INSTRUCTIONS FOR CORRECT SPEED SELECTION FOR IFM.
- SEE INSTALLATION INSTRUCTIONS FOR PROPER HEATING AND COOLING CONNECTIONS FOR YOUR UNIT.
- ON SOME MODELS LS1 AND LS2 ARE WIRED IN SERIES. ON OTHER MODELS ONLY LS1 IS USED.
- THIS FUSE IS MANUFACTURED BY LITTLE FUSE, P/N 287003.
- DO NOT DISCONNECT PLUG UNDER LOAD.
- N.E.C. CLASS 2, 24V.



347821-701 REV.A

347821-701 REV.A



A210162

Controls

Operating Sequence

Heating Sequence of Operation (Ultra Low NOx Single and Three Phase Models)

On a call for heating, terminal W of the thermostat is energized, starting the induced-draft motor for a 30 second pre-purge at normal ignition speed. When the pressure switch senses that the induced-draft motor is moving sufficient combustion air, the burner sequence begins. This function is controlled by the integrated gas unit controller (IGC).

After 30 sec of pre purge is complete, the pressure switch checks for sufficient combustion. Then, the gas valve energizes and the system attempts to ignite with igniter being energized. The igniter energizes for 5 sec and integrated gas controller (IGC) allows system to sense flame for 2 sec at the end of 5 sec of ignition trial. On first successful ignition, system stays at the ignition speed for 10 sec and ramps up to an intermediate speed for approximately 10 sec and gradually ramps up to the steady state speed. The system uses the same logic for 2nd and 3rd ignition trials. In case the 4th attempt fails, the system will lock out for 1 hr. After 1 hr. lock out period, the system starts with normal operating sequence. Once flame is established and proven successfully, indoor (evaporator) fan motor is energized after 30 seconds. When the thermostat is satisfied and W is de-energized, the pre-mix burner will stop firing and the indoor (evaporator) fan motor shuts off after a 90 second time-off delay. Please note that the IGC has the capability to automatically decrease the indoor (evaporator) fan motor "ON" delay and increase the indoor (evaporator) fan motor "OFF" delay in the event of high duct static and/or partially-clogged filter

Guide Specifications

Packaged Gas Heating/Electric Cooling Units Constant Volume Application

HVAC Guide Specifications

Size Range: 2 to 5 Tons, Nominal Cooling

40,000 to 90,000 Btuh,

Nominal Heating Input

SYSTEM DESCRIPTION

Outdoor rooftop or ground mounted air conditioner and gas furnace system utilizing a two-stage scroll compressor for cooling duty. Unit shall discharge supply air vertically or horizontally as shown on contract drawings. Outdoor fan/coil section shall have a draw-thru design with vertical discharge for minimum sound levels.

QUALITY ASSURANCE

- Unit shall be rated in accordance with AHRI Standards 210/240 and 270-1995.
- Unit shall be designed in accordance with UL Standard 1995 and ANSI Z 21.47.
- Unit shall be manufactured in a facility registered to ISO 9001 manufacturing quality standard.
- Unit shall be UL listed and c-UL certified as a total package for safety requirements.
- Roof curb shall be designed to conform to NRCA Standards.
- Insulation and adhesives shall meet NFPA 90.1 requirements for flame spread and smoke generation.
- Cabinet insulation shall meet ASHRAE Standard 62.2.

DELIVERY, STORAGE AND HANDLING

Unit shall be stored and handled per manufacturer's recommendations.

Part 2 — Products

EQUIPMENT

General:

Factory-assembled, single-piece, heating and cooling unit. Contained within the enclosure shall be all factory wiring, piping, controls, refrigerant charge with R-410A refrigerant, and special features required prior to field start-up.

Unit Cabinet:

1. Unit cabinet shall be constructed of phosphated, zinc-coated, pre-painted steel capable of with-standing 500 hours in salt spray.
2. Normal service shall be through 3 removable cabinet panels.
3. The unit shall be constructed on a rust proof unit base that has an externally trapped, integrated sloped drain.
4. Evaporator fan compartment top surface shall be insulated with a minimum 1/2-in. (12.7 mm) thick, flexible fiberglass insulation, coated on the air side and retained by adhesive and mechanical means. The evaporator wall sections will be insulated with a minimum semi-rigid foil-faced board capable of being wiped clean. Aluminum foil-faced fiberglass insulation shall be used in the entire indoor air cavity section.
5. Unit shall have a field-supplied condensate trap.

Fans:

1. The evaporator fan shall be a multi-speed, direct-drive, as shown on equipment drawings.
2. Fan wheel shall be made from steel, be double-inlet type with forward curved blades with corrosion resistant finish. Fan wheel shall be dynamically balanced.
3. Condenser fan shall be direct drive propeller type with aluminum blades riveted to corrosion resistant steel spiders, be dynamically balanced, and discharge air vertically.

Compressor:

1. Fully hermetic compressors with factory-installed vibration isolation.
2. Two-stage scroll compressors shall be standard on all units.

Coils:

Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless copper tubes with all joints brazed. Tube sheet openings shall be belled to prevent tube wear.

Heating Section:

1. Induced-draft combustion type with energy saving direct spark ignition system and redundant main gas valve.
2. Induced-draft motors shall provide adequate airflow for combustion.
3. The heat exchangers shall be constructed of aluminized steel for corrosion resistance.
4. Burners shall be pre-mixed type.
5. All gas piping and electric power shall enter the unit cabinet at a single location.

Refrigerant Components:

Refrigerant expansion device shall be of the TXV (thermostatic expansion valve) type.

Filters:

Filter section shall consist of field-installed, throwaway, 1-in. (25 mm) thick fiberglass filters of commercially available sizes.

Controls and Safeties:

1. Unit controls shall be complete with a self-contained low voltage control circuit.
2. Compressors shall incorporate a solid-state compressor protector that provides reset capability.

Operating Characteristics:

1. Unit shall be capable of starting and running at 125°F (51°C) ambient outdoor temperature per maximum load criteria of AHRI Standard 210.
2. Compressor with standard controls shall be capable of operation down to 40°F (4°C) ambient outdoor temperature.
3. Units shall be provided with fan time delay to prevent cold air delivery before the heat exchanger warms up.
4. Unit shall be provided with fan time delay after the thermostat is satisfied.

Electrical Requirements:

All unit power wiring shall enter the unit cabinet at a single location.

Motors:

1. Compressor motors shall be of the refrigerant-cooled type with line-break thermal and current overload protection.
2. All fan motors shall have permanently lubricated bearings, and inherent, automatic reset, thermal overload protection.
3. Condenser fan motor shall be totally enclosed.
4. Evaporator Fan Motor to be multi-speed ECM blower motor.

Compressor Protection:

Solid-state control shall protect compressor by preventing "short cycling."

Ultra Low NOx:

Shall provide NOx reduction to meet 14ng/J NOx emissions requirements as shipped from the factory.

Guide Specifications (cont)

O.Special Option/Kits Available:

1. Coil Options
Base unit with tin plated indoor coil hairpins available as a factory installed option.
 2. Compressor Start Kit (single phase units only):
Shall provide additional starting torque for single-phase compressors.
 3. Corporate Thermostat:
To provide for one-stage heating and cooling in addition manual or automatic changeover and indoor fan control.
 4. Crankcase Heater Kit:
Shall provide anti-floodback protection for low-load cooling applications.
 5. Economizer for two-stage operation:
(Horizontal and Vertical with Jade Honeywell W7220 controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order.)
- NOTE:** The enhanced dehumidification feature on high stage cooling does not support use of an economizer.
- a. Economizer controls capable of providing free cooling using outside air.
 - b. Equipped with low leakage dampers not to exceed 3% leakage, at 1.0 IN. W.C. pressure differential.
- c. Spring return motor shuts off outdoor damper on power failure.
 6. Filter Rack Kit:
Shall provide filter mounting for downflow applications. Offered as a field installed accessory.
 7. Flat Roof Curb Kit:
Curbs shall have seal strip and a wood nailer for flashing and shall be installed per manufacturer's instructions.
 8. Flue Discharge Deflector Kit
Directs flue gas exhaust; 90 degrees upward from current discharge.
 9. Heat Exchanger Option
Stainless Steel Heat Exchanger available as a factory installed option.
 10. Low Ambient Package Kit:
Shall consist of a solid-state control and condenser coil temperature sensor for controlling condenser-fan motor operation, which shall allow unit to operate down to 0°F (-18°C) outdoor ambient temperature when properly installed.
 11. Manual Outdoor Air Damper Kit:
Package shall consist of damper, birdscreen, and rainhood which can be preset to admit outdoor air for year-round ventilation.
 12. Square-To-Round Duct Transitions Kit (24-48 models):
Shall have the ability to convert the supply and return openings from rectangular to round.

Training

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