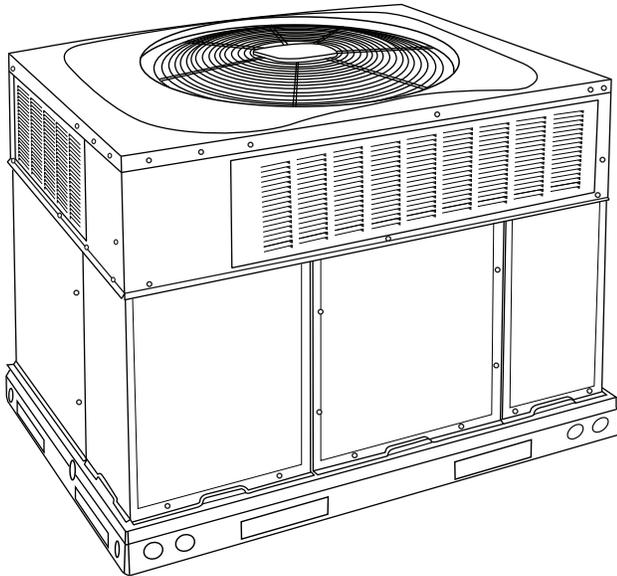


Product Data



A09033

Fig. 1 - Unit 677E

Single-Packaged Products with Energy-Saving Features and Puron® refrigerant.

- Up to 15.5 SEER
- 12.0 - 12.5 EER
- 8.2 to 8.5 HSPF
- 81% AFUE (Single phase models)
- Direct Spark Ignition
- Factory-Installed TXV
- Multi-speed ECM Blower Motor-Standard
- Sound Levels as low as 68dBA
- Two Stage Cooling
- Two Stage Heating (208/230 VAC models)
- Dehumidification Feature

FEATURES/BENEFITS

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

Bryant's unique refrigerant designed to be environmentally balanced. 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 and is non-ozone depleting.

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 15.5, 12.0 to 12.5 EER, HSPF of up to 8.5, 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. A low-cost field installed kit for propane conversion is available for all units.

Low NOx units are designed for California installations and meet 40 ng/J NOx emissions. Can be installed in air quality management districts with a 40 ng/J NOx emissions requirement.

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.

Monoport inshot burners produce precise air-to-gas mixture, which provides for clean and efficient combustion. The large monoport on the inshot (or injection type) burners seldom, if ever, requires cleaning. All gas furnace components are accessible in one compartment.

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.

High Efficiency Inducer Motor on single phase 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. Motormaster® 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 68dBA.

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 high stage cooling (as low as 320CFM per ton). Coupled with the improved dehumidification associated with low stage cooling, the DHUM speed allows for a complete dehumidification solution independent of cooling stage. 208/230 VAC models also have independent fan speeds for low stage gas heating and high stage gas heating. 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
- Low stage heating delivers 65% of high-stage capacity (208/230 VAC models)

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.

Short-Cycling protection for the compressor is incorporated into our defrost control board ensuring a five minute delay (+/-2 minutes) before restarting compressor after shutdown for any reason.

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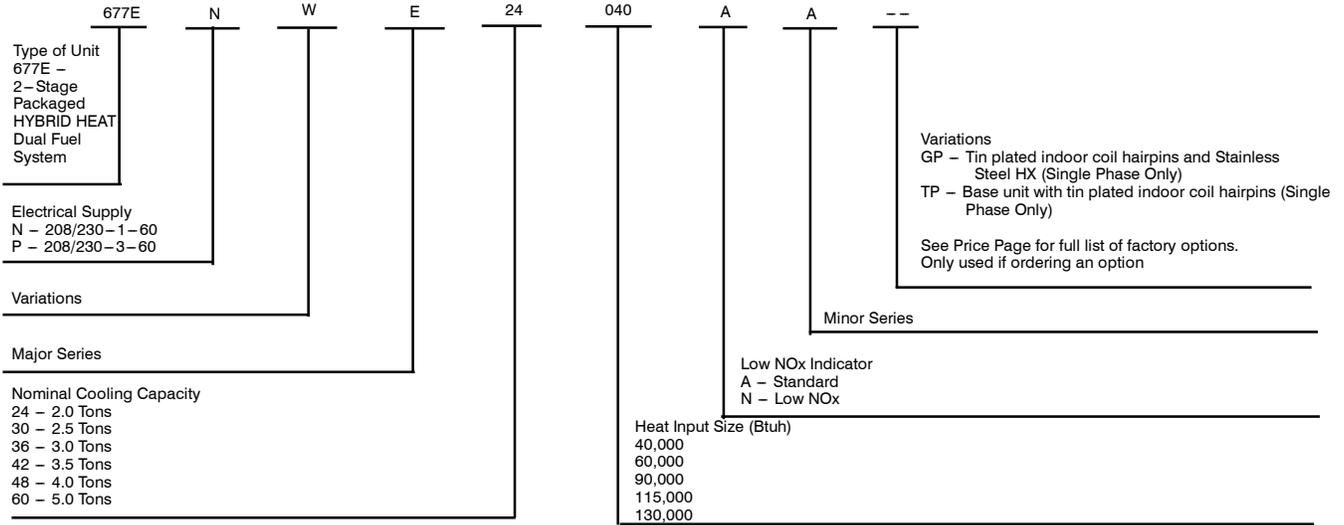
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MODEL NUMBER NOMENCLATURE



677E



For California Residents:

For installation in SCAQMD only: This furnace does not meet the SCAQMD Rule 1111 14ng/J NOx emission limit, and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

AHRI* CAPACITIES

Cooling Capacities and Efficiencies

677E--C Unit Size	Nominal Tons	Standard CFM (High / Low Stage)	Net Cooling Capacities - Btuh (High Stage)	EER @A**	SEER†
24	2	855 / 675	22800	12.0	15.0
30	2-1/2	1000 / 775	29400	12.0	15.0

677E--A, E Unit Size	Nominal Tons	Standard CFM (High / Low Stage)	Net Cooling Capacities - Btuh (High Stage)	EER @A**	SEER†
36	3	1200 / 900	34000	12.0	15.0
42	3-1/2	1400 / 1050	42000	12.0	15.0
48	4	1600 / 1200	47500	12.5	15.5
60	5	1750 / 1400	57000	12.0	15.0

AHRI* CAPACITIES (CONT)

Heat Pump Heating Capacities and Efficiencies

677E--C Unit Size	Heating Capacity (BTUH) @ 47_F (8.3_C)	COP @ 47_F (8.3_C)	Heating Capacity (BTUH) @ 17_F (---8.3_C)	COP @ 17_F (---8.3_C)	HSPF	Heating Cd
24	23,400	3.9	12200	2.3	8.2	0.25
30	30,000	3.7	16200	2.3	8.2	0.25

677E--A, E Unit Size	Heating Capacity (BTUH) @ 47_F (8.3_C)	COP @ 47_F (8.3_C)	Heating Capacity (BTUH) @ 17_F (---8.3_C)	COP @ 17_F (---8.3_C)	HSPF	Heating Cd
36	34,000	3.7	17200	2.3	8.2	0.25
42	42,000	3.6	24000	2.5	8.2	0.25
48	47,000	3.7	26000	2.3	8.2	0.25
60	57,000	3.5	32400	2.4	8.5	0.25

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.

677E

**Heating Capacities and Efficiencies
208/230 VAC Models Single Phase**

UNIT SIZE	HEATING INPUT (BTUH) HIGH/LOW	OUTPUT CAPACITY (BTUH) HIGH / LOW	TEMPERATURE RISE RANGE HIGH °F (°C)	TEMPERATURE RISE RANGE LOW °F (°C)	AFUE (%)
24040 30040	40,000 / 26,000	33,000 / 22,000	25-55 (14-31)	25-55 (14-31)	81.0
24060 30060 36060 42060	60,000 / 39,000	49,000 / 32,000	25-55 (14-31)	25-55 (14-31)	81.0
36090 42090 48090 60090	90,000 / 58,500	74,000 / 48,000	35-65 (19-36)	35-65 (19-36)	81.0
48115 60115	115,000 / 75,000	94,000 / 62,000	30-60 (17-33)	30-60 (17-33)	81.0
48130 60130	127,000 / 84,500	104,000 / 70,000	35-65 (19-36)	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.

677E

**Heating Capacities and Efficiencies
208/230 VAC Models 3-Phase**

UNIT SIZE	HEATING INPUT (BTUH) HIGH/LOW	OUTPUT CAPACITY (BTUH) HIGH / LOW	TEMPERATURE RISE RANGE HIGH °F (°C)	TEMPERATURE RISE RANGE LOW °F (°C)	AFUE (%)
24040 30040	40,000 / 26,000	32,000 / 21,000	20-50 (11-28)	15-45 (8-25)	78
24060 30060 36060 42060	60,000 / 39,000	49,000 / 31,000	25-55 (14-31)	25-55 (14-31)	78.6
36090 42090 48090 60090	90,000 / 58,500	74,000 / 47,000	35-65 (19-36)	35-65 (19-36)	79.2
48115 60115	115,000 / 75,000	93,000 / 61,000	30-60 (17-33)	30-60 (17-33)	80.1
48130 60130	130,000 / 84,500	103,000 / 68,000	35-65 (19-36)	35-65 (19-36)	80.0

LEGEND

AFUE – Annual Fuel Utilization Efficiency

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

A-Weighted Sound Power Level (dBA)

677E--C Unit Size	Sound Ratings (dBA)	TYPICAL OCTAVE BAND SPECTRUM(dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	68	77	65	65	63	57	52	48
30	69	70	66	67	65	58	56	54

677E--A, E Unit Size	Sound Ratings (dBA)	TYPICAL OCTAVE BAND SPECTRUM(dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
36	73	64	63.5	68	68	65.5	60.5	52.5
42	71	64	62	65	66	63.5	59.5	52.5
48	74	59.5	65	70	67	64.5	60.5	52.5
60	73	68	63	66	66	65	59.5	52.5

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

PHYSICAL DATA

MODEL FAMILY	677E -- C				677C -- A, E			
	24040	24060	30040	30060	36060	36090	42060	42090
UNIT SIZE	2	2	2-1/2	2-1/2	3	3	3-1/2	3-1/2
NOMINAL CAPACITY (ton)	2	2	2-1/2	2-1/2	3	3	3-1/2	3-1/2
SHIPPING WEIGHT** lb.	362	362	408	408	467	467	506	506
SHIPPING WEIGHT** (kg)	164	164	185	185	212	212	230	230
COMPRESSORS	Scroll							
Quantity	1							
REFRIGERANT (R-410A)								
Quantity lb.	8.2	8.2	11.2	11.2	11.0	11.0	14.6	14.6
Quantity (kg)	3.7	3.7	5.1	5.1	5.0	5.0	6.6	6.6
REFRIGERANT METERING DEVICE	TXV, Indoor TXV							
ORIFICE OD in.	.032 (2)	.032 (2)	.035 (1)	.038 (1)	.042 (2)	.042 (2)	.042 (2)	.042 (2)
(mm)	.81 (2)	.81 (2)	.89 (1)	.97 (1)	1.07 (2)	1.07 (2)	1.07 (2)	1.07 (2)
OUTDOOR COIL								
Rows...Fins/in.	1..21	1..21	2..21	2..21	2..21	2..21	2..21	2..21
Face Area (sq ft)	18.8	18.8	18.8	18.8	13.6	13.6	19.4	19.4
OUTDOOR FAN								
Nominal CFM	2100	2100	2500	2500	3000	3000	3000	3000
Diameter in.	24	24	24	24	26	26	26	26
Diameter (mm)	609.6	609.6	609.6	609.6	660.4	660.4	660.4	660.4
Motor Hp (Rpm)	1/12 (800)	1/12 (800)	1/8 (810)	1/8 (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
Face Area (sq ft)	3.7	3.7	3.7	3.7	4.7	4.7	4.7	4.7
INDOOR BLOWER								
Nominal Low Stage Cooling Airflow (Cfm)	675	675	775	775	900	900	1050	1050
Nominal High Stage Cooling Airflow (Cfm)	855	855	1000	1000	1200	1200	1400	1400
Size in.	10x10	10x10	10x10	10x10	11x10	11x10	11x10	11x10
Size (mm.)	254x254	254x254	254x254	254x254	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 (1000)	3/4 (1075)	3/4 (1075)
FURNACE SECTION*								
Burner Orifice No. (Qty...Drill Size)	2...44	3...44	2...44	3...44	3...44	3...38	3...44	3...38
Natural Gas (Factory Installed)	2...55	3...55	2...55	3...55	3...55	3...53	3...55	3...53
Propane Gas								
HIGH-PRESSURE SWITCH (psig) Cut-out Reset (Auto)	650 +/- 15 420 +/- 25							
LOSS-OF-CHARGE / LOW-PRESSURE SWITCH (Liquid Line) (psig) cut-out Reset (auto)	20 +/- 5 45 +/- 5							
RETURN-AIR FILTERS†‡								
Throwaway Size in. (mm)	20x20x1 508x508x25	20x24x1 508x610x25			24x30x1 610x762x25			

*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.

677E

PHYSICAL DATA (CONT)

MODEL FAMILY	677E--A, E					
UNIT SIZE	48090	48115	48130	60090	60115	60130
NOMINAL CAPACITY (ton)	4	4	4	5	5	5
SHIPPING WEIGHT lb	509	509	509	562	562	562
SHIPPING WEIGHT kg	231	231	231	255	255	255
COMPRESSORS	Scroll					
Quantity	1					
REFRIGERANT (R-410A)						
Quantity lb	12.0	12.0	12.0	14.8	14.8	14.8
Quantity (kg.)	5.4	5.4	5.4	6.7	6.7	6.7
REFRIGERANT METERING DEVICE	TXV, Indoor TXV					
ORIFICE ID in.	.042 (2)	.042 (2)	.042 (2)	.052 (2)	.052 (2)	.052 (2)
(mm)	1.07 (2)	1.07 (2)	1.07 (2)	1.32 (2)	1.32 (2)	1.32 (2)
OUTDOOR COIL						
Rows...Fins/in.	2...21	2...21	2...21	2...21	2...21	2...21
Face Area (sq ft)	17.5	17.5	17.5	23.3	23.3	23.3
OUTDOOR FAN						
Nominal Cfm	3300	3300	3300	3600	3600	3600
Diameter in.	26	26	26	26	26	26
Diameter (mm)	660.4	660.4	660.4	660.4	660.4	660.4
Motor Hp (Rpm)	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	4...17	4...17	4...17
Face Area (sq ft)	5.7	5.7	5.7	5.7	5.7	5.7
INDOOR BLOWER						
Nominal Low Stage Cooling Airflow (Cfm)	1200	1200	1200	1400	1400	1400
Nominal High Stage Cooling Airflow (Cfm)	1600	1600	1600	1750	1750	1750
Size in.	11x10	11x10	11x10	11x10	11x10	11x10
Size (mm)	279.4x254	279.4x254	279.4x254	279.4x254	279.4x254	279.4x254
Motor HP (RPM)	1.0 (1075)	1.0 (1075)	1.0 (1075)	1.0 (1075)	1.0 (1075)	1.0 (1075)
FURNACE SECTION*						
Burner Orifice No. (Qty...Drill Size)						
Natural Gas (Factory Installed)	3...38	3...33	3...31	3...38	3...33	3...31
Propane Gas	3...53	3...51	3...49	3...53	3...51	3...49
HIGH-PRESSURE SWITCH	650 +/- 15					
(psig) Cut-out Reset (Auto)	420 +/- 25					
LOSS-OF-CHARGE / LOW-PRESSURE SWITCH (psig) cut-out Reset (auto)	20 +/- 5					
	45 +/- 5					
RETURN-AIR FILTERS Throwaway†‡ in.	24x36x1					
(mm)	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.

677E

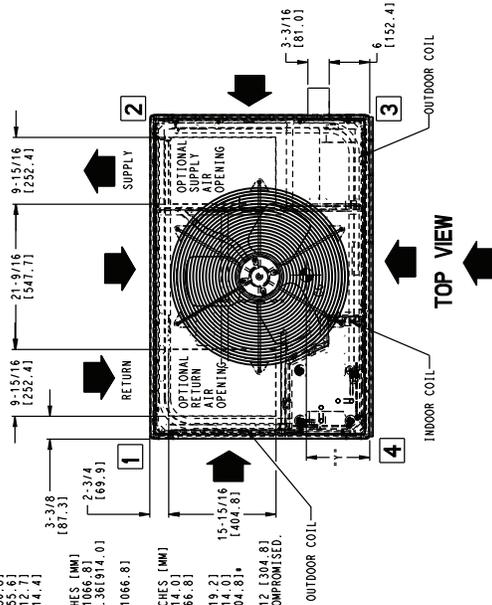
OPTIONS AND ACCESSORIES

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 single 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	
High Altitude Propane Conversion Kit	High Altitude Propane Conversion Kit is for use at 2001 to 6000 ft. (611 – 1829 m) above sea level. Kit consists of propane gas orifices that compensate for gas heat operation at high altitude.		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
Natural to Propane Gas Conversion Kit	Natural to Propane Gas Conversion Kit allows for conversion from natural gas to propane gas (0–2000 ft) (0–610 m)		X
Propane to Natural Gas Conversion Kit	Propane to Natural Gas Conversion Kit allows for conversion from propane to natural gas for altitudes of 0–2000 ft (0–610 m)		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 - 677E 24-30

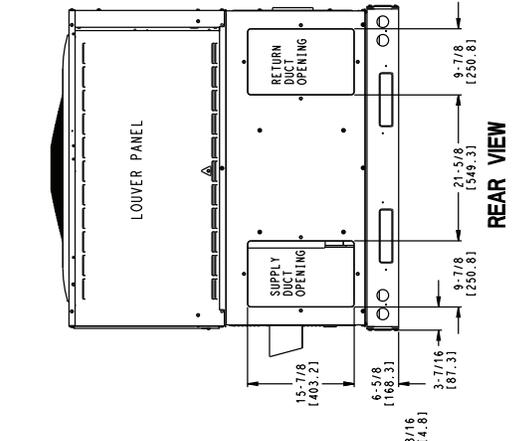
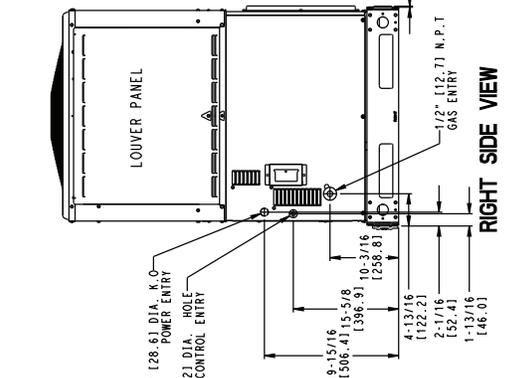
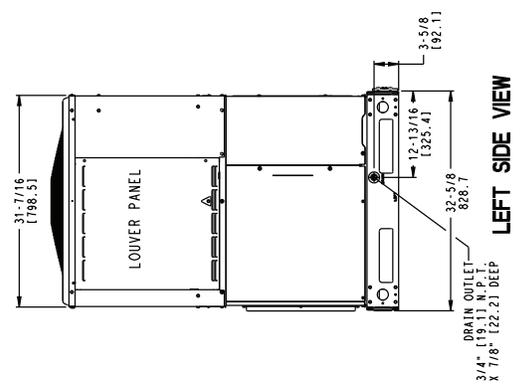
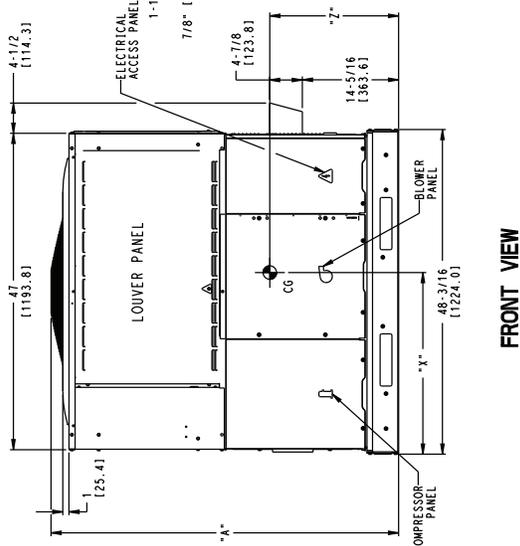
- REQUIRED CLEARANCES TO COMBUSTIBLE MATL.
- TOP OF UNIT..... 14 [355.8]
 - DUCT SIDE OF UNIT..... 2 [50.8]
 - SIDE OPPOSITE DUCTS..... 14 [355.6]
 - BOTTOM OF UNIT..... 12 [304.8]
 - FLUE PANEL..... 36 [914.4]
- NEC. REQUIRED CLEARANCES.
- BETWEEN UNITS, POWER ENTRY SIDE..... 42 [1066.8]
 - UNIT AND MICROBID. SURFACES, POWER ENTRY SIDE..... 36 [914.4]
 - UNIT AND MICROBID. SURFACES, OTHER..... 42 [1066.8]
 - GROUND SURFACES, POWER ENTRY SIDE..... 42 [1066.8]
- REQUIRED CLEARANCE FOR OPERATION AND SERVICING
- EVAP. COIL ACCESS SIDE..... 36 [914.4]
 - POWER ENTRY SIDE..... 42 [1066.8]
 - (EXCEPT FOR NEC REQUIREMENTS)
 - UNIT TOP..... 48 [1219.2]
 - SIDE OPPOSITE DUCTS..... 32 [812.8]
 - DUCT PANEL..... 32 [812.8]
- *MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.
- DIMENSIONS IN () ARE IN MM



UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT. LB	UNIT WT. KG	UNIT HEIGHT IN/MM			CENTER OF GRAVITY IN/MM				
				"A"	"B"	"C"	X	Y	Z		
677ENWZ24[040/060](A/N/A)*	208/230-1-60	353	160.2	51-3/4	1315	22-13/16	579.4	15-5/16	388.9	23.0	564.2
677ENWZ30[040/060](A/N/A)*	208/230-1-60	399	181.0	51-3/4	1315	22-13/16	579.4	15-5/16	388.9	23.0	564.2
677EPWZ30[040/060](A/N/A)*	208/230-3-60	399	181.0	51-3/4	1315	22-13/16	579.4	15-5/16	388.9	23.0	564.2

UNIT	CORNER WEIGHT LB/KG		
	"1"	"2"	"3"
677ENWZ24[040/060](A/N/A)*	53.0	24.0	70.6
677ENWZ30[040/060](A/N/A)*	59.9	27.2	79.8
677EPWZ30[040/060](A/N/A)*	59.9	27.2	79.8

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

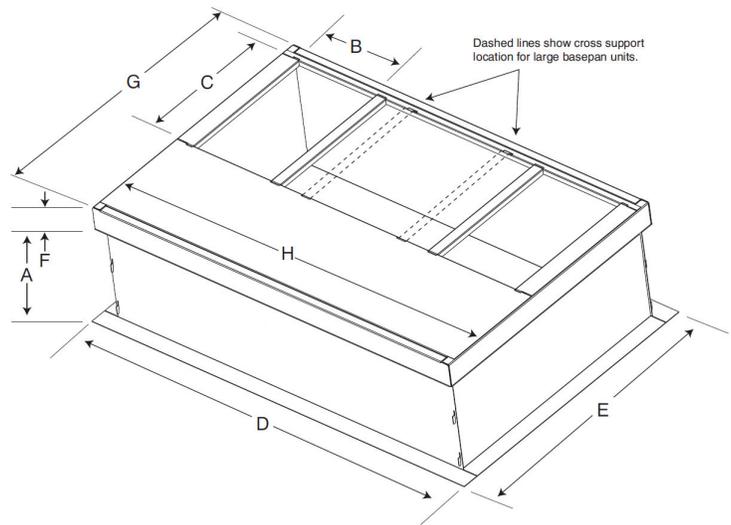
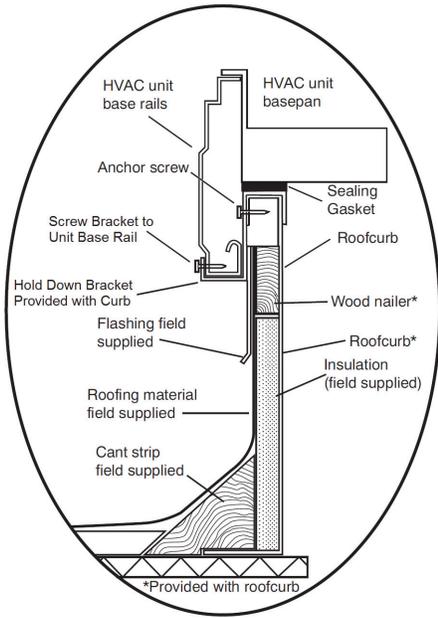


344818-4

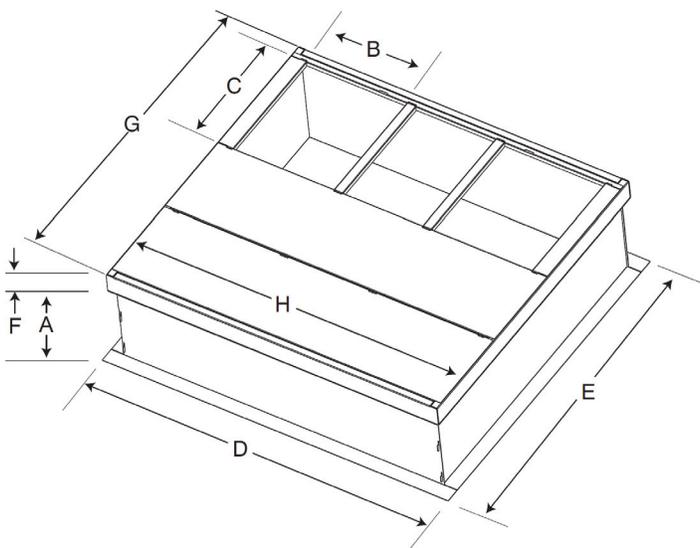
677E

ACCESSORY DIMENSIONS

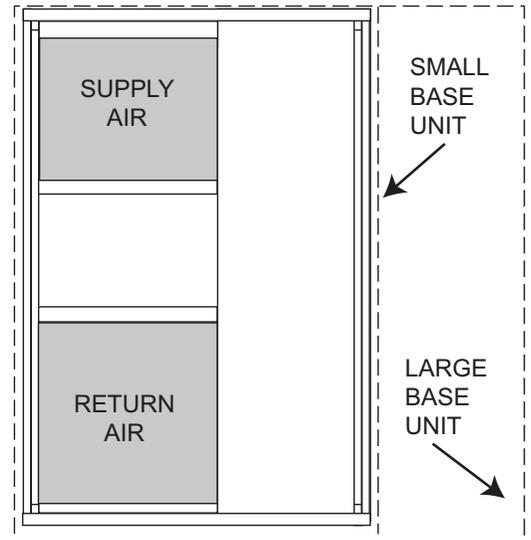
677E



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) 34,000 Btuh
Sensible Heat Capacity (SHC) 25,000 Btuh
Required Heating Capacity 60,000 Btuh
Condenser Entering Air Temperature 95°F (35°C)
Indoor-Air Temperature . 80°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</u> IN. W.C
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-Low (pink 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 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	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW
700	57 (13.8)	21.49	21.49	1.52	20.88	20.88	1.68	20.17	20.17	1.86	19.34	19.34	2.07	18.35	18.35	2.33	17.24	17.24	2.63
	62 (16.6)	22.16	20.20	1.53	21.34	19.92	1.69	20.42	19.56	1.87	19.39	19.31	2.07	18.38	18.38	2.33	17.27	17.27	2.63
	63* (17.2)	22.52	16.49	1.53	21.70	16.18	1.69	20.76	15.83	1.87	19.72	15.37	2.08	14.84	14.84	2.33	17.08	14.20	2.63
	67 (19.4)	24.17	17.07	1.55	23.27	16.75	1.71	22.26	16.40	1.89	21.16	15.98	2.10	15.50	15.50	2.35	18.54	14.96	2.65
	72 (22.2)	26.41	13.85	1.57	25.43	13.48	1.73	24.35	13.08	1.91	23.16	12.65	2.13	12.19	12.19	2.38	20.48	11.70	2.68
	57 (13.8)	22.87	22.87	1.55	22.18	22.18	1.71	21.38	21.38	1.90	20.49	20.49	2.11	19.46	19.46	2.36	18.29	18.29	2.66
	62 (16.6)	23.05	22.37	1.56	22.21	22.21	1.71	21.42	21.42	1.90	20.52	20.52	2.11	19.48	19.48	2.36	18.31	18.31	2.66
855	63* (17.2)	23.32	18.13	1.56	22.40	17.85	1.72	21.40	17.49	1.89	20.26	17.06	2.10	16.52	16.52	2.36	17.54	15.88	2.65
	67 (19.4)	25.01	18.82	1.57	24.02	18.52	1.73	22.93	18.17	1.91	21.73	17.78	2.13	17.31	17.31	2.38	18.99	16.76	2.67
	72 (22.2)	27.31	15.01	1.59	26.24	14.65	1.75	25.06	14.26	1.94	23.79	13.83	2.15	13.35	13.35	2.41	20.95	12.85	2.70
	57 (13.8)	23.27	23.27	1.56	22.55	22.55	1.72	21.73	21.73	1.91	20.81	20.81	2.12	19.76	19.76	2.37	18.58	18.58	2.67
900	62 (16.6)	23.63	22.15	1.57	22.58	22.58	1.72	21.76	21.76	1.91	20.84	20.84	2.12	19.79	19.79	2.37	18.60	18.60	2.67
	63* (17.2)	23.53	18.66	1.57	22.59	18.38	1.72	21.56	18.02	1.90	20.41	17.59	2.11	17.05	17.05	2.36	17.67	16.41	2.66
	67 (19.4)	25.24	19.38	1.58	24.22	19.08	1.74	23.11	18.74	1.92	21.90	18.34	2.13	17.88	17.88	2.39	19.12	17.31	2.68
	72 (22.2)	27.55	15.36	1.60	26.45	15.01	1.76	25.25	14.62	1.95	23.94	14.21	2.16	13.73	13.73	2.41	21.07	13.22	2.71

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

024 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
EDB	CFM	-10 (-23.3)		0 (-17.8)		10 (-12.2)		20 (-6.7)		Total Sys KW	Capacity MBtuh	Total Sys KW	Capacity MBtuh
		Total	Integ	Total	Integ	Total	Integ	Total	Integ				
65 (18.3)	700	5.87	5.40	7.69	6.60	10.57	9.71	13.29	12.05	1.40	13.29	1.40	13.29
	855	5.92	5.45	7.75	6.65	10.63	9.76	13.35	12.10	1.42	13.35	1.42	13.35
	900	5.93	5.45	7.76	6.66	10.64	9.77	13.37	12.12	1.42	13.37	1.42	13.37
70 (21.1)	700	5.80	5.34	7.60	6.52	10.44	9.58	13.10	11.88	1.46	13.10	1.46	13.10
	855	5.87	5.40	7.66	6.58	10.50	9.63	13.16	11.94	1.47	13.16	1.47	13.16
	900	5.87	5.40	7.67	6.59	10.51	9.65	13.17	11.95	1.47	13.17	1.47	13.17
75 (23.9)	700	5.72	5.26	7.50	6.44	10.29	9.44	12.92	11.72	1.51	12.92	1.51	12.92
	855	5.80	5.33	7.56	6.50	10.35	9.50	12.99	11.77	1.52	12.99	1.52	12.99
	900	5.80	5.34	7.58	6.50	10.36	9.51	12.99	11.78	1.52	12.99	1.52	12.99

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
EDB	CFM	30 (-1.1)		40 (4.4)		50 (10)		60 (15.6)		Total Sys KW	Capacity MBtuh	Total Sys KW	Capacity MBtuh
		Total	Integ	Total	Integ	Total	Integ	Total	Integ				
65 (18.3)	700	16.97	14.87	20.83	20.83	25.42	25.42	29.44	29.44	1.77	29.44	1.77	29.44
	855	16.93	14.84	20.80	20.80	25.35	25.35	29.32	29.32	1.77	29.32	1.77	29.32
	900	16.94	14.85	20.80	20.80	25.35	25.35	29.30	29.30	1.78	29.30	1.78	29.30
70 (21.1)	700	16.64	14.58	20.58	20.58	25.26	25.26	29.34	29.34	1.85	29.34	1.85	29.34
	855	16.72	14.65	20.65	20.65	25.21	25.21	29.22	29.22	1.85	29.22	1.85	29.22
	900	16.73	14.66	20.65	20.65	25.20	25.20	29.21	29.21	1.85	29.21	1.85	29.21
75 (23.9)	700	16.42	14.38	20.45	20.45	25.11	25.11	29.21	29.21	1.92	29.21	1.92	29.21
	855	16.49	14.45	20.60	20.60	25.06	25.06	29.12	29.12	1.93	29.12	1.93	29.12
	900	16.50	14.46	20.38	20.38	25.05	25.05	29.11	29.11	1.93	29.11	1.93	29.11

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

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 Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW	Capacity MBtuh	Total Sys KW	Total Sys KW
525	57 (13.8)	18.15	18.15	1.06	17.65	17.65	1.19	16.95	16.95	1.34	16.00	16.00	1.52	14.98	14.98	1.73	13.94	13.94	1.96
	62 (16.6)	18.61	17.42	1.05	17.93	17.21	1.19	16.87	17.04	1.34	16.03	16.03	1.52	15.00	15.00	1.73	13.97	13.97	1.96
	63* (17.2)	18.94	14.19	1.05	18.25	13.94	1.19	13.55	17.37	1.34	13.01	13.01	1.52	14.86	14.86	1.73	13.54	11.90	1.96
	67 (19.4)	20.32	14.68	1.04	19.55	14.43	1.18	14.09	18.63	1.34	13.65	13.65	1.52	16.22	16.22	1.73	14.83	12.56	1.96
	72 (22.2)	22.23	11.87	1.03	21.38	11.56	1.18	11.19	20.38	1.34	10.78	10.78	1.52	18.06	18.06	1.73	16.65	9.85	1.96
675	57 (13.8)	19.64	19.64	1.06	19.04	19.04	1.20	18.28	18.28	1.36	17.36	17.36	1.53	16.24	16.24	1.74	15.08	15.08	1.98
	62 (16.6)	19.85	18.78	1.06	19.07	19.07	1.20	18.31	18.31	1.36	17.38	17.38	1.53	16.27	16.27	1.74	15.11	15.11	1.98
	63* (17.2)	19.76	16.08	1.06	18.98	15.87	1.20	15.55	18.01	1.36	15.03	15.03	1.53	15.42	15.42	1.74	14.05	13.83	1.97
	67 (19.4)	21.20	16.70	1.05	20.33	16.47	1.19	16.18	19.31	1.35	15.80	15.80	1.53	16.79	16.79	1.74	15.34	14.66	1.98
	72 (22.2)	23.17	13.18	1.04	22.22	12.89	1.19	12.54	21.11	1.35	12.14	12.14	1.53	18.61	18.61	1.74	17.16	11.19	1.98
700	57 (13.8)	19.85	19.85	1.06	19.23	19.23	1.20	18.46	18.46	1.36	17.54	17.54	1.54	16.41	16.41	1.74	15.24	15.24	1.98
	62 (16.6)	20.11	18.71	1.06	19.26	19.26	1.20	18.49	18.49	1.36	17.56	17.56	1.54	16.44	16.44	1.74	15.26	15.26	1.98
	63* (17.2)	19.86	16.40	1.06	19.07	16.18	1.20	15.87	18.09	1.36	15.35	15.35	1.54	15.49	15.49	1.74	14.13	14.11	1.98
	67 (19.4)	21.32	17.02	1.05	20.44	16.80	1.20	16.51	19.39	1.36	16.14	16.14	1.54	16.87	16.87	1.74	15.41	14.99	1.98
	72 (22.2)	23.29	13.38	1.04	22.33	13.09	1.19	12.75	21.20	1.35	12.36	12.36	1.54	18.68	18.68	1.75	17.21	11.41	1.98

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

024 Low Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																				
EDB	CFM	0 (-17.8)			10 (-12.2)			20 (-6.7)			30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
		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		Capacity MBtuh	Total Sys KW	
		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65	525	4.54	4.50	1.00	6.59	6.06	1.06	8.44	7.65	1.13	11.85	10.38	1.17	14.14	14.14	1.22	17.65	17.65	1.27	21.47	21.47	1.29
(18.3)	675	4.56	4.52	0.99	6.64	6.09	1.04	8.48	7.69	1.13	11.90	10.43	1.17	14.21	14.21	1.22	17.60	17.60	1.26	21.49	21.49	1.29
	700	4.56	4.52	0.98	6.65	6.10	1.04	8.51	7.71	1.13	11.92	10.45	1.18	14.22	14.22	1.22	17.58	17.58	1.26	21.47	21.47	1.29
70	525	4.52	4.48	1.07	6.52	5.99	1.12	8.31	7.53	1.19	11.65	10.20	1.22	13.90	13.90	1.26	17.35	17.35	1.32	21.24	21.24	1.33
(21.1)	675	4.56	4.52	1.05	6.59	6.06	1.11	8.38	7.60	1.18	11.71	10.26	1.22	13.96	13.96	1.27	17.37	17.37	1.31	21.28	21.28	1.34
	700	4.58	4.54	1.05	6.62	6.07	1.10	8.40	7.62	1.19	11.73	10.28	1.23	13.98	13.98	1.27	17.37	17.37	1.31	21.22	21.22	1.34
75	525	4.43	4.39	1.13	6.42	5.89	1.18	8.15	7.39	1.25	11.42	10.01	1.26	13.65	13.65	1.31	17.05	17.05	1.37	21.01	21.01	1.39
(23.9)	675	4.50	4.46	1.12	6.50	5.96	1.17	8.24	7.47	1.24	11.50	10.07	1.27	13.70	13.70	1.31	17.11	17.11	1.38	20.93	20.93	1.39
	700	4.52	4.48	1.11	6.52	5.99	1.16	8.26	7.50	1.24	11.51	10.09	1.27	13.72	13.72	1.32	17.25	17.25	1.38	20.91	20.91	1.39

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

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)		
		CFM	EWB	Total Sys KW	Capacity MBtuh	Total Sys KW													
	57 (13.9)	27.21	27.21	1.90	26.37	26.37	2.10	25.44	25.44	2.34	24.37	24.37	2.62	23.17	23.17	2.92	21.82	21.82	3.26
	62 (16.7)	28.23	25.45	1.92	27.09	25.02	2.11	25.89	24.50	2.35	24.58	23.88	2.62	23.21	23.21	2.92	21.86	21.86	3.26
875	63* (17.2)	28.71	20.79	1.92	27.58	20.34	2.12	26.35	19.83	2.35	24.99	19.25	2.62	23.47	18.57	2.93	21.78	17.81	3.26
	67 (19.4)	30.91	21.57	1.95	29.69	21.12	2.14	28.37	20.62	2.38	26.94	20.05	2.65	25.35	19.42	2.96	23.60	18.72	3.29
	72 (13.9)	33.94	17.52	1.99	32.62	17.03	2.19	31.20	16.50	2.42	29.67	15.94	2.70	27.97	15.33	3.00	26.12	14.67	3.33
	57 (13.9)	28.45	28.45	1.95	27.55	27.55	2.14	26.54	26.54	2.38	25.40	25.40	2.66	24.13	24.13	2.97	22.71	22.71	3.30
1000	62 (16.7)	29.02	27.38	1.95	27.83	26.90	2.15	26.60	26.53	2.38	25.44	25.44	2.66	24.16	24.16	2.97	22.74	22.74	3.30
	63* (17.2)	29.44	22.19	1.96	28.24	21.73	2.15	26.93	21.21	2.39	25.49	20.61	2.66	23.90	19.93	2.96	22.15	19.17	3.29
	67 (19.4)	31.69	23.08	1.98	30.39	22.61	2.18	29.00	22.10	2.42	27.48	21.53	2.69	25.81	20.89	2.99	23.99	20.17	3.32
	72 (13.9)	34.81	18.55	2.03	33.40	18.03	2.22	31.90	17.49	2.46	30.27	16.91	2.73	28.50	16.28	3.04	26.55	15.60	3.37
	57 (13.9)	29.54	29.54	1.99	28.56	28.56	2.18	27.48	27.48	2.42	26.27	26.27	2.70	24.93	24.93	3.01	23.44	23.44	3.34
	62 (16.7)	29.72	29.10	1.99	28.61	28.61	2.18	27.52	27.52	2.42	26.31	26.31	2.70	24.96	24.96	3.01	23.47	23.47	3.34
1125	63* (17.2)	30.03	23.53	1.99	28.76	23.07	2.19	27.39	22.53	2.42	25.88	21.92	2.69	24.24	21.24	2.99	22.45	20.46	3.32
	67 (19.4)	32.34	24.51	2.02	30.95	24.05	2.22	29.49	23.52	2.45	27.91	22.94	2.72	26.16	22.29	3.03	24.30	21.55	3.36
	72 (13.9)	35.47	19.51	2.07	33.98	19.01	2.26	32.41	18.44	2.50	30.72	17.85	2.77	28.87	17.21	3.07	26.86	16.52	3.40

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

030 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
		-10 (-23.3)			0 (-17.8)			10 (-12.2)			20 (-6.7)		
EDB	CFM	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65 (18.3)	875	6.87	6.32	1.51	8.94	8.23	1.65	14.03	12.87	1.83	18.81	17.06	1.98
	1000	6.94	6.39	1.54	9.00	8.28	1.67	14.09	12.94	1.85	18.88	17.12	2.01
	1125	7.00	6.45	1.55	9.06	8.33	1.69	14.17	13.01	1.88	18.96	17.19	2.03
70 (21.1)	875	6.73	6.19	1.57	8.81	8.10	1.71	13.85	12.72	1.89	18.60	16.86	2.05
	1000	6.80	6.26	1.58	8.86	8.16	1.72	13.92	12.78	1.92	18.67	16.93	2.08
	1125	6.87	6.32	1.60	8.92	8.21	1.75	14.00	12.84	1.93	18.75	17.00	2.11
75 (23.9)	875	6.59	6.06	1.61	8.67	7.98	1.76	13.68	12.56	1.96	18.38	16.67	2.13
	1000	6.67	6.14	1.62	8.74	8.04	1.78	13.75	12.62	1.97	18.46	16.74	2.15
	1125	6.74	6.20	1.64	8.79	8.09	1.81	13.82	12.69	2.00	18.54	16.81	2.17

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
		30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
EDB	CFM	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65 (18.3)	875	22.48	19.70	2.03	26.63	26.63	2.17	31.28	31.28	2.31	36.40	36.40	2.46
	1000	22.56	19.77	2.05	26.70	26.70	2.19	31.36	31.36	2.33	36.49	36.49	2.48
	1125	22.64	19.83	2.08	26.77	26.77	2.21	31.44	31.44	2.35	36.58	36.58	2.50
70 (21.1)	875	22.24	19.49	2.09	26.34	26.34	2.23	30.91	30.91	2.38	35.94	35.94	2.54
	1000	22.32	19.56	2.12	26.41	26.41	2.26	30.97	30.97	2.38	35.99	35.99	2.51
	1125	22.40	19.62	2.14	26.49	26.49	2.28	31.06	31.06	2.41	36.09	36.09	2.55
75 (23.9)	875	22.00	19.28	2.17	26.05	26.05	2.31	30.52	30.52	2.44	35.44	35.44	2.58
	1000	22.08	19.34	2.20	26.12	26.12	2.32	30.60	30.60	2.46	35.53	35.53	2.61
	1125	22.15	19.41	2.21	26.20	26.20	2.34	30.67	30.67	2.47	35.59	35.59	2.60

See Legend and Notes on Page 37.

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 Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens				
CFM	EWB	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total				
655	57 (13.8)	22.68	22.68	1.40	22.01	22.01	22.01	1.57	21.21	21.21	21.21	1.76	20.22	20.22	20.22	1.98	19.08	19.08	19.08	2.22	17.83	17.83	2.51
	62 (16.6)	23.35	21.67	1.40	22.42	21.37	21.37	1.57	20.94	20.94	20.94	1.76	20.29	20.29	20.17	1.98	19.11	19.11	19.11	2.22	17.86	17.86	2.51
	63* (17.2)	23.75	17.64	1.40	22.85	17.28	17.28	1.57	16.83	16.83	16.83	1.76	20.56	20.56	16.29	1.97	19.12	19.12	15.62	2.22	17.54	17.54	2.51
	67 (19.4)	25.55	18.28	1.39	24.57	17.94	17.94	1.56	17.52	17.52	17.52	1.75	22.28	22.28	17.03	1.97	20.83	20.83	16.45	2.21	19.17	19.17	2.49
	72 (22.2)	28.05	14.77	1.38	26.99	14.38	14.38	1.55	13.95	13.95	13.95	1.75	24.56	24.56	13.48	1.96	23.12	23.12	12.96	2.20	21.47	21.47	2.48
775	57 (13.8)	23.95	23.95	1.42	23.20	23.20	23.20	1.59	22.35	22.35	22.35	1.78	21.33	21.33	21.33	2.00	20.14	20.14	20.14	2.24	18.79	18.79	2.52
	62 (16.6)	24.15	23.69	1.42	23.24	23.24	23.24	1.59	22.39	22.39	22.39	1.78	21.36	21.36	21.36	2.00	20.17	20.17	20.17	2.24	18.82	18.82	2.52
	63* (17.2)	24.46	19.16	1.42	23.47	18.83	18.83	1.59	18.41	18.41	18.41	1.78	21.07	21.07	17.85	2.00	19.58	19.58	17.17	2.25	17.93	17.93	2.53
	67 (19.4)	26.31	19.90	1.41	25.25	19.58	19.58	1.58	19.20	19.20	19.20	1.77	22.78	22.78	18.73	1.99	21.29	21.29	18.13	2.24	19.59	19.59	2.51
	72 (22.2)	28.86	15.87	1.41	27.73	15.47	15.47	1.58	15.02	15.02	15.02	1.77	25.14	25.14	14.54	1.98	23.62	23.62	14.00	2.23	21.89	21.89	2.50
840	57 (13.8)	24.54	24.54	1.43	23.76	23.76	23.76	1.60	22.87	22.87	22.87	1.79	21.83	21.83	21.83	2.01	20.61	20.61	20.61	2.25	19.23	19.23	2.53
	62 (16.6)	25.08	23.76	1.43	23.80	23.80	23.80	1.60	22.91	22.91	22.91	1.79	21.86	21.86	21.86	2.01	20.64	20.64	20.64	2.25	19.25	19.25	2.53
	63* (17.2)	24.76	19.96	1.43	23.75	19.63	19.63	1.60	19.21	19.21	19.21	1.79	21.28	21.28	18.66	2.01	19.77	19.77	17.98	2.26	18.11	18.11	2.54
	67 (19.4)	26.64	20.76	1.43	25.54	20.44	20.44	1.60	20.06	20.06	20.06	1.79	23.01	23.01	19.59	2.00	21.48	21.48	19.00	2.25	19.77	19.77	2.53
	72 (22.2)	29.22	16.40	1.42	28.04	16.02	16.02	1.59	15.59	15.59	15.59	1.78	25.38	25.38	15.10	2.00	23.82	23.82	14.56	2.24	22.06	22.06	2.51

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

030 Low Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																				
EDB	CFM	0 (-17.8)			10 (-12.2)			20 (-6.7)			30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
		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		Capacity MBtuh	Total Sys KW	
65	(18.3)	5.49	1.47	8.07	7.41	1.51	11.41	10.35	1.55	13.66	11.97	1.62	18.53	18.53	1.69	22.40	22.40	1.73	27.08	27.08	1.75	
		5.57	1.47	8.16	7.49	1.52	11.49	10.42	1.57	13.73	12.03	1.64	18.61	18.61	1.72	22.44	22.44	1.74	27.17	27.17	1.77	
		5.61	1.48	8.20	7.53	1.53	11.53	10.46	1.58	13.77	12.07	1.65	18.65	18.65	1.73	22.48	22.48	1.75	27.21	27.21	1.79	
70	(21.1)	5.39	1.52	7.94	7.29	1.57	11.24	10.19	1.62	13.48	11.80	1.68	18.28	18.28	1.76	22.07	22.07	1.78	26.74	26.74	1.81	
		5.47	1.53	8.03	7.37	1.58	11.33	10.27	1.63	13.55	11.87	1.70	18.36	18.36	1.78	22.15	22.15	1.81	26.82	26.82	1.84	
		5.52	1.53	8.08	7.42	1.58	11.36	10.30	1.64	13.58	11.90	1.71	18.40	18.40	1.79	22.19	22.19	1.81	26.86	26.86	1.84	
75	(23.9)	5.28	1.58	7.82	7.18	1.64	11.07	10.04	1.68	13.28	11.64	1.75	18.03	18.03	1.84	21.78	21.78	1.85	26.40	26.40	1.88	
		5.38	1.59	7.91	7.26	1.64	11.17	10.12	1.70	13.36	11.70	1.77	18.11	18.11	1.85	21.85	21.85	1.87	26.48	26.48	1.90	
		5.42	1.59	7.96	7.30	1.65	11.21	10.16	1.71	13.39	11.73	1.79	18.14	18.14	1.86	21.89	21.89	1.88	26.52	26.52	1.91	

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

036 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																									
		75 (23.9)			85 (29.4)			95 (35)			105 (40.5)			115 (46.1)			125 (51.7)										
		Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB								
1050	57 (13.9)	34.39	2.37	32.14	2.56	29.88	2.77	27.60	2.99	25.28	3.24	22.91	3.52	19.4	34.39	2.37	32.14	2.56	29.88	2.77	27.60	2.99	25.28	3.24	22.91	3.52	19.4
	62 (16.7)	35.59	2.38	33.00	2.57	30.42	2.77	27.85	2.99	25.32	3.24	22.94	3.52	19.4	35.59	2.38	33.00	2.57	30.42	2.77	27.91	2.99	25.32	3.24	22.94	3.52	19.4
	63* (17.2)	36.08	2.39	33.45	2.57	30.80	2.77	28.15	2.99	25.46	3.24	20.51	3.52	17.2	36.08	2.39	33.45	2.57	30.80	2.77	22.54	2.99	25.46	3.24	20.51	3.52	17.2
	67 (19.4)	38.94	2.41	36.08	2.60	33.23	2.80	30.37	3.02	27.47	3.26	21.42	3.54	19.4	38.94	2.41	36.08	2.60	33.23	2.80	23.50	3.02	27.47	3.26	21.42	3.54	19.4
	72 (13.9)	42.65	2.44	39.53	2.63	36.41	2.83	33.27	3.05	30.12	3.29	16.81	3.57	13.9	42.65	2.44	39.53	2.63	36.41	2.83	18.83	3.05	30.12	3.29	16.81	3.57	13.9
1200	57 (13.9)	35.97	2.42	33.58	2.60	31.18	2.81	28.75	3.03	26.29	3.28	23.78	3.56	13.9	35.97	2.42	33.58	2.60	31.18	2.81	28.75	3.03	26.29	3.28	23.78	3.56	13.9
	62 (16.7)	36.62	2.42	33.94	2.61	31.27	2.81	28.80	3.03	26.33	3.28	23.81	3.56	16.7	36.62	2.42	33.94	2.61	31.27	2.81	28.80	3.03	26.33	3.28	23.81	3.56	16.7
	63* (17.2)	37.03	2.42	34.27	2.61	31.52	2.81	28.76	3.03	25.98	3.28	21.97	3.55	17.2	37.03	2.42	34.27	2.61	31.52	2.81	24.10	3.03	25.98	3.28	21.97	3.55	17.2
	67 (19.4)	39.95	2.45	36.97	2.63	34.00	2.83	31.02	3.05	28.01	3.30	23.00	3.57	19.4	39.95	2.45	36.97	2.63	34.00	2.83	25.17	3.05	28.01	3.30	23.00	3.57	19.4
	72 (13.9)	43.73	2.48	40.48	2.67	37.23	2.87	33.97	3.09	30.70	3.33	17.78	3.60	13.9	43.73	2.48	40.48	2.67	37.23	2.87	19.86	3.09	30.70	3.33	17.78	3.60	13.9
1350	57 (13.9)	37.34	2.46	34.82	2.64	32.29	2.85	29.73	3.07	27.14	3.32	24.51	3.59	13.9	37.34	2.46	34.82	2.64	32.29	2.85	29.73	3.07	27.14	3.32	24.51	3.59	13.9
	62 (16.7)	37.64	2.46	34.88	2.65	32.34	2.85	29.78	3.07	27.18	3.32	24.54	3.59	16.7	37.64	2.46	34.88	2.65	32.34	2.85	29.78	3.07	27.18	3.32	24.54	3.59	16.7
	63* (17.2)	37.79	2.46	34.93	2.64	32.09	2.84	29.25	3.06	26.38	3.31	23.35	3.58	17.2	37.79	2.46	34.93	2.64	32.09	2.84	25.59	3.06	26.38	3.31	23.35	3.58	17.2
	67 (19.4)	40.75	2.49	37.68	2.67	34.61	2.87	31.53	3.09	28.45	3.33	24.49	3.60	19.4	40.75	2.49	37.68	2.67	34.61	2.87	26.79	3.09	28.45	3.33	24.49	3.60	19.4
	72 (13.9)	44.59	2.52	41.23	2.71	37.88	2.90	34.52	3.12	31.15	3.36	18.70	3.63	13.9	44.59	2.52	41.23	2.71	37.88	2.90	20.84	3.12	31.15	3.36	18.70	3.63	13.9

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

036 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
		-10 (-23.3)				0 (-17.8)				10 (-12.2)				20 (-6.7)			
		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	
Total	Integ	Total	Integ		Total	Integ		Total	Integ		Total	Integ					
EDB ° F (° C)	CFM																
65 (18.3)	1050	9.02	8.29	1.99	12.22	11.25	2.12	15.90	14.60	2.24	20.56	18.65	2.36				
	1200	9.14	8.41	2.01	12.39	11.40	2.13	16.11	14.79	2.23	20.77	18.83	2.35				
	1350	9.28	8.54	2.02	12.54	11.54	2.14	16.30	14.96	2.24	20.95	19.00	2.34				
70 (21.1)	1050	8.61	7.92	2.09	11.81	10.87	2.22	15.47	14.20	2.34	19.83	17.99	2.46				
	1200	8.76	8.06	2.10	12.00	11.04	2.23	15.69	14.41	2.34	20.46	18.55	2.46				
	1350	8.90	8.19	2.12	12.16	11.19	2.24	15.89	14.58	2.34	20.64	18.72	2.45				
75 (23.9)	1050	8.18	7.52	2.18	11.37	10.46	2.32	15.02	13.78	2.45	19.22	17.43	2.56				
	1200	8.33	7.66	2.19	11.56	10.64	2.33	15.24	13.99	2.44	19.51	17.69	2.55				
	1350	8.46	7.78	2.21	11.72	10.78	2.34	15.43	14.16	2.45	19.79	17.95	2.55				

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
		30 (-1.1)				40 (4.4)				50 (10)				60 (15.6)			
		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	Integ	Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		
EDB ° F (° C)	CFM																
65 (18.3)	1050	24.91	21.83	2.46	29.96	29.96	2.57	35.89	35.89	2.70	43.12	43.12	2.87				
	1200	25.17	22.05	2.43	30.31	30.31	2.53	36.38	36.38	2.65	43.81	43.81	2.80				
	1350	25.39	22.25	2.42	30.60	30.60	2.51	36.78	36.78	2.62	44.35	44.35	2.76				
70 (21.1)	1050	24.58	21.54	2.58	29.54	29.54	2.69	35.33	35.33	2.82	42.44	42.44	2.99				
	1200	24.83	21.75	2.55	29.88	29.88	2.65	35.81	35.81	2.77	43.10	43.10	2.92				
	1350	25.05	21.95	2.53	30.16	30.16	2.62	36.19	36.19	2.73	43.60	43.60	2.88				
75 (23.9)	1050	24.24	21.24	2.70	29.12	29.12	2.81	34.79	34.79	2.94	41.72	41.72	3.12				
	1200	24.50	21.46	2.67	29.45	29.45	2.77	35.25	35.25	2.89	42.38	42.38	3.05				
	1350	24.70	21.64	2.65	29.73	29.73	2.74	35.63	35.63	2.85	42.90	42.90	3.01				

See Legend and Notes on Page 37.

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 Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB
785	57 (13.8)	24.53	24.53	1.58	23.23	23.23	1.75	21.88	21.88	1.94	20.46	20.46	2.15	18.94	18.94	2.39	17.33	17.33	2.66
	62 (16.6)	25.14	23.46	1.57	22.37	22.37	1.75	22.06	21.22	1.94	20.49	20.49	2.15	18.98	18.98	2.39	17.36	17.36	2.66
	63* (17.2)	25.47	18.96	1.57	23.90	18.03	1.75	22.29	17.10	1.94	20.59	16.15	2.15	18.79	15.18	2.39	16.90	14.19	2.66
	67 (19.4)	27.50	19.76	1.55	25.80	18.79	1.72	24.05	17.81	1.92	22.22	16.84	2.13	20.30	15.84	2.37	18.28	14.82	2.64
	72 (22.2)	30.11	15.99	1.52	28.26	15.09	1.70	26.37	14.21	1.89	24.39	13.28	2.11	22.32	12.36	2.35	20.13	11.42	2.62
	57 (13.8)	25.61	25.61	1.59	24.22	24.22	1.77	22.78	22.78	1.96	21.26	21.26	2.17	19.66	19.66	2.41	17.95	17.95	2.67
	62 (16.6)	25.85	25.13	1.59	24.29	24.29	1.77	22.82	22.82	1.96	21.30	21.30	2.17	19.69	19.69	2.41	17.98	17.98	2.67
900	63* (17.2)	26.08	20.23	1.59	24.44	19.26	1.77	22.75	18.29	1.96	20.98	17.30	2.17	19.12	16.28	2.41	17.17	15.23	2.68
	67 (19.4)	28.14	21.11	1.57	26.37	20.10	1.74	24.54	19.09	1.94	22.65	18.07	2.15	20.65	17.02	2.40	18.57	15.95	2.67
	72 (22.2)	30.81	16.82	1.54	28.88	15.89	1.72	26.90	14.98	1.91	24.84	14.02	2.13	22.69	13.07	2.37	20.43	12.11	2.64
	57 (13.8)	26.49	26.49	1.61	25.03	25.03	1.78	23.51	23.51	1.97	21.91	21.91	2.19	20.23	20.23	2.42	18.44	18.44	2.69
1010	62 (16.6)	26.53	26.53	1.61	25.07	25.07	1.78	23.54	23.54	1.97	21.95	21.95	2.18	20.26	20.26	2.42	18.47	18.47	2.69
	63* (17.2)	26.53	21.40	1.61	24.84	20.39	1.79	23.09	19.38	1.98	21.28	18.33	2.19	19.38	17.26	2.43	17.40	16.12	2.70
	67 (19.4)	28.64	22.35	1.59	26.80	21.33	1.76	24.92	20.27	1.96	22.96	19.18	2.17	20.93	18.08	2.42	18.80	16.93	2.69
	72 (22.2)	31.34	17.57	1.56	29.34	16.61	1.74	27.29	15.67	1.93	25.17	14.69	2.15	22.96	13.71	2.39	20.64	12.73	2.66

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

036 Low Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		0 (-17.8)			10 (-12.2)			20 (-6.7)			30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)			
EDB	CFM	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total	Capacity	Total		
		MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW	MBtuh	Sys KW
65 (18.3)	785	6.33	1.76	9.00	8.26	12.07	10.95	1.80	15.61	13.68	19.82	19.82	1.84	24.39	24.39	1.86	29.08	29.08	1.87	29.08	29.08	1.87	29.08
	900	6.46	1.77	9.17	8.41	12.30	11.15	1.80	15.89	13.92	20.50	20.50	1.83	24.73	24.73	1.83	29.54	29.54	1.82	29.54	29.54	1.82	29.54
	1010	6.60	1.79	9.34	8.57	12.50	11.33	1.80	16.13	14.13	20.74	20.74	1.82	25.01	25.01	1.80	29.90	29.90	1.82	29.90	29.90	1.80	29.90
70 (21.1)	785	5.88	1.84	8.54	7.84	11.62	10.54	1.88	15.14	13.27	19.18	19.18	1.93	24.04	24.04	1.96	28.64	28.64	1.97	28.64	28.64	1.97	28.64
	900	6.03	1.86	8.74	8.02	11.86	10.76	1.88	15.44	13.53	19.59	19.59	1.90	24.36	24.36	1.92	29.09	29.09	1.92	29.09	29.09	1.92	29.09
	1010	6.16	1.87	8.90	8.17	12.06	10.94	1.89	15.68	13.74	19.96	19.96	1.90	24.64	24.64	1.90	29.44	29.44	1.90	29.44	29.44	1.89	29.44
75 (23.9)	785	5.38	1.92	8.06	7.40	11.13	10.10	1.97	14.65	12.84	18.65	18.65	2.02	23.65	23.65	2.07	28.19	28.19	2.08	28.19	28.19	2.08	28.19
	900	5.53	1.94	8.25	7.58	11.38	10.32	1.97	14.94	13.09	19.03	19.03	2.00	23.99	23.99	2.02	28.63	28.63	2.02	28.63	28.63	2.02	28.63
	1010	5.66	1.96	8.41	7.72	11.58	10.50	1.98	15.19	13.31	19.33	19.33	1.99	24.27	24.27	2.00	28.98	28.98	1.99	28.98	28.98	1.99	28.98

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

042 High Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																								
		75 (23.9)			85 (29.4)			95 (35)			105 (40.5)			115 (46.1)			125 (51.7)									
		Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB	Capacity MBtuh	Total Sys KW	EWB							
1225	57 (13.9)	42.15	2.91	39.67	3.15	37.10	3.43	34.44	3.74	31.67	4.09	28.80	4.46	57 (13.9)	42.15	2.91	39.67	3.15	37.10	3.43	34.44	3.74	31.67	4.09	28.80	4.46
	62 (16.7)	43.66	2.91	40.79	3.16	37.82	3.43	34.81	3.74	31.72	4.09	28.84	4.46	62 (16.7)	43.66	2.91	40.79	3.16	37.82	3.43	34.81	3.74	31.72	4.09	28.84	4.46
	63* (17.2)	44.22	2.92	41.29	3.16	38.26	3.44	35.13	3.75	31.92	4.09	28.64	4.46	63* (17.2)	44.22	2.92	41.29	3.16	38.26	3.44	35.13	3.75	31.92	4.09	28.64	4.46
	67 (19.4)	47.58	2.93	44.40	3.17	41.12	3.45	37.74	3.76	34.27	4.11	30.73	4.48	67 (19.4)	47.58	2.93	44.40	3.17	41.12	3.45	37.74	3.76	34.27	4.11	30.73	4.48
	72 (13.9)	51.88	2.94	48.39	3.19	44.80	3.48	41.12	3.79	37.36	4.13	19.08	4.50	72 (13.9)	51.88	2.94	48.39	3.19	44.80	3.48	41.12	3.79	37.36	4.13	19.08	4.50
	57 (13.9)	44.00	2.96	41.36	3.20	38.61	3.48	35.76	3.79	32.82	4.14	29.77	4.51	57 (13.9)	44.00	2.96	41.36	3.20	38.61	3.48	35.76	3.79	32.82	4.14	29.77	4.51
	62 (16.7)	44.86	2.96	41.88	3.20	38.84	3.48	35.83	3.79	32.87	4.14	29.81	4.51	62 (16.7)	44.86	2.96	41.88	3.20	38.84	3.48	35.83	3.79	32.87	4.14	29.81	4.51
1400	63* (17.2)	45.32	2.96	42.25	3.21	39.08	3.48	35.82	3.79	32.48	4.13	29.08	4.50	63* (17.2)	45.32	2.96	42.25	3.21	39.08	3.48	35.82	3.79	32.48	4.13	29.08	4.50
	67 (19.4)	48.76	2.97	45.44	3.22	42.00	3.50	38.47	3.81	34.87	4.15	26.20	4.52	67 (19.4)	48.76	2.97	45.44	3.22	42.00	3.50	38.47	3.81	34.87	4.15	26.20	4.52
	72 (13.9)	53.13	2.99	49.49	3.24	45.74	3.52	41.91	3.84	38.00	4.18	20.11	4.55	72 (13.9)	53.13	2.99	49.49	3.24	45.74	3.52	41.91	3.84	38.00	4.18	20.11	4.55
	57 (13.9)	45.59	3.00	42.79	3.25	39.89	3.53	36.89	3.84	33.78	4.18	30.57	4.56	57 (13.9)	45.59	3.00	42.79	3.25	39.89	3.53	36.89	3.84	33.78	4.18	30.57	4.56
1575	62 (16.7)	45.93	3.01	42.88	3.25	39.95	3.53	36.94	3.84	33.83	4.18	30.61	4.56	62 (16.7)	45.93	3.01	42.88	3.25	39.95	3.53	36.94	3.84	33.83	4.18	30.61	4.56
	63* (17.2)	46.20	3.01	43.02	3.25	39.73	3.53	36.36	3.84	32.93	4.18	26.65	4.55	63* (17.2)	46.20	3.01	43.02	3.25	39.73	3.53	36.36	3.84	32.93	4.18	26.65	4.55
	67 (19.4)	49.71	3.02	46.25	3.27	42.69	3.55	39.04	3.86	35.34	4.20	27.83	4.57	67 (19.4)	49.71	3.02	46.25	3.27	42.69	3.55	39.04	3.86	35.34	4.20	27.83	4.57
	72 (13.9)	54.13	3.04	50.36	3.29	46.48	3.57	42.52	3.88	38.49	4.22	21.10	4.59	72 (13.9)	54.13	3.04	50.36	3.29	46.48	3.57	42.52	3.88	38.49	4.22	21.10	4.59

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

042 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
		-10 (-23.3)				0 (-17.8)				10 (-12.2)				20 (-6.7)			
		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	
Total	Integ	Total	Integ		Total	Integ		Total	Integ		Total	Integ					
65 (18.3)	1225	12.38	11.39	2.44	16.20	14.91	2.58	20.94	19.22	2.73	25.45	23.08	2.86				
	1400	12.54	11.54	2.46	16.40	15.09	2.59	21.12	19.39	2.73	25.69	23.30	2.85				
	1575	12.70	11.68	2.48	16.57	15.25	2.60	21.30	19.55	2.73	25.90	23.48	2.85				
70 (21.1)	1225	12.00	11.04	2.55	15.81	14.55	2.69	20.66	18.96	2.85	25.14	22.80	2.98				
	1400	12.18	11.21	2.56	16.02	14.74	2.69	20.87	19.15	2.84	25.38	23.02	2.97				
	1575	12.34	11.36	2.58	16.21	14.92	2.71	21.05	19.32	2.85	25.59	23.21	2.97				
75 (23.9)	1225	11.58	10.65	2.66	15.39	14.16	2.80	19.77	18.15	2.95	24.82	22.51	3.11				
	1400	11.76	10.82	2.68	15.61	14.36	2.81	20.08	18.43	2.95	25.07	22.74	3.10				
	1575	11.93	10.98	2.70	15.80	14.53	2.82	20.39	18.72	2.96	25.27	22.92	3.09				

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)															
		30 (-1.1)				40 (4.4)				50 (10)				60 (15.6)			
		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	Integ	Total	Integ		Total	Integ		Total	Integ		Total	Integ					
65 (18.3)	1225	30.72	26.92	3.00	36.92	36.92	3.17	44.40	44.40	3.38	53.33	53.33	3.66				
	1400	31.04	27.20	2.98	37.35	37.35	3.14	44.96	44.96	3.33	53.96	53.96	3.59				
	1575	31.32	27.44	2.97	37.71	37.71	3.12	45.36	45.36	3.32	53.92	53.92	3.58				
70 (21.1)	1225	30.32	26.57	3.13	36.37	36.37	3.30	43.69	43.69	3.52	52.49	52.49	3.81				
	1400	30.63	26.84	3.11	36.81	36.81	3.27	44.28	44.28	3.47	53.14	53.14	3.76				
	1575	30.91	27.08	3.10	37.16	37.16	3.25	44.67	44.67	3.45	53.30	53.30	3.72				
75 (23.9)	1225	29.92	26.21	3.27	35.85	35.85	3.45	43.00	43.00	3.67	51.60	51.60	3.96				
	1400	30.23	26.49	3.24	36.26	36.26	3.40	43.56	43.56	3.61	52.28	52.28	3.91				
	1575	30.49	26.72	3.23	36.61	36.61	3.38	43.98	43.98	3.59	52.60	52.60	3.87				

See Legend and Notes on Page 37.

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 Sys KW	Total Capacity MBtuh	Capacity MBtuh	Total Sys KW	Total Capacity MBtuh	Capacity MBtuh	Total Sys KW	Total Capacity MBtuh	Capacity MBtuh	Total Sys KW	Total Capacity MBtuh	Capacity MBtuh	Total Sys KW	Total Capacity MBtuh	Capacity MBtuh	Total Sys KW	
CFM	EWB	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens		
915	57 (13.8)	29.52	29.52	1.89	29.22	29.22	2.01	28.70	28.70	2.13	27.93	27.93	2.27	26.88	26.88	2.41	25.49	25.49	
	62 (16.6)	30.35	27.95	1.89	27.74	27.74	2.00	29.02	27.38	2.13	28.00	28.00	2.27	26.92	26.92	2.41	25.53	25.53	
	63* (17.2)	30.73	22.60	1.89	22.37	22.37	2.00	29.34	22.03	2.13	28.23	21.62	2.27	26.79	21.11	2.41	24.97	20.46	
	67 (19.4)	33.18	23.50	1.86	23.25	23.25	1.98	31.66	22.90	2.10	30.47	22.48	2.24	28.92	21.95	2.38	26.99	21.31	
	72 (22.2)	36.31	19.06	1.83	18.72	18.72	1.95	34.66	18.28	2.07	33.38	17.76	2.20	31.75	17.14	2.35	29.70	16.41	
1050	57 (13.8)	30.80	30.80	1.92	30.44	30.44	2.03	29.85	29.85	2.15	29.01	29.01	2.29	27.86	27.86	2.43	26.37	26.37	
	62 (16.6)	31.19	29.95	1.92	29.64	29.64	2.03	29.90	29.90	2.15	29.06	29.06	2.28	27.91	27.91	2.42	26.41	26.41	
	63* (17.2)	31.46	24.07	1.91	23.84	23.84	2.03	29.94	23.52	2.15	28.76	23.12	2.29	27.23	22.59	2.44	25.34	21.93	
	67 (19.4)	33.99	25.06	1.89	24.83	24.83	2.00	32.32	24.48	2.13	31.03	24.06	2.26	29.41	23.54	2.41	27.39	22.87	
	72 (22.2)	37.17	20.01	1.86	19.66	19.66	1.97	35.37	19.22	2.09	34.01	18.69	2.23	32.28	18.07	2.37	30.12	17.33	
1180	57 (13.8)	31.85	31.85	1.94	31.44	31.44	2.05	30.79	30.79	2.17	29.88	29.88	2.30	28.65	28.65	2.44	27.06	27.06	
	62 (16.6)	31.93	31.93	1.94	31.49	31.49	2.05	30.84	30.84	2.17	29.92	29.92	2.30	28.69	28.69	2.44	27.10	27.10	
	63* (17.2)	32.02	25.41	1.94	25.20	25.20	2.06	30.40	24.88	2.18	29.15	24.46	2.31	27.58	23.93	2.46	25.63	23.19	
	67 (19.4)	34.59	26.49	1.92	26.29	26.29	2.03	32.80	25.94	2.15	31.47	25.52	2.29	29.77	24.97	2.43	27.69	24.26	
	72 (22.2)	37.82	20.86	1.89	20.51	20.51	2.00	35.90	20.07	2.12	34.47	19.54	2.25	32.66	18.91	2.39	30.42	18.18	

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

042 Low Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																				
		0 (-17.8)			10 (-12.2)			20 (-6.7)			30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
EDB	CFM	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	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65 (18.3)	915	9.04	8.31	1.92	12.13	11.13	1.98	15.70	14.24	2.05	20.29	17.77	2.15	24.62	24.62	2.22	29.49	29.49	2.29	35.11	35.11	2.37
	1050	9.18	8.45	1.94	12.35	11.33	1.99	15.98	14.50	2.05	20.62	18.07	2.14	24.92	24.92	2.19	29.90	29.90	2.26	35.67	35.67	2.32
	1180	9.34	8.59	1.96	12.53	11.50	2.01	16.19	14.68	2.06	20.83	18.25	2.14	25.18	25.18	2.19	30.24	30.24	2.24	36.11	36.11	2.29
70 (21.1)	915	8.66	7.97	2.00	11.79	10.82	2.07	15.35	13.93	2.14	19.49	17.08	2.23	24.31	24.31	2.33	29.09	29.09	2.40	34.59	34.59	2.48
	1050	8.83	8.12	2.02	11.99	11.01	2.08	15.61	14.15	2.14	19.90	17.44	2.22	24.61	24.61	2.30	29.49	29.49	2.36	35.14	35.14	2.43
	1180	8.98	8.26	2.04	12.16	11.16	2.09	15.82	14.35	2.15	20.46	17.93	2.23	24.86	24.86	2.29	29.82	29.82	2.34	35.58	35.58	2.40
75 (23.9)	915	8.23	7.58	2.08	11.35	10.42	2.16	14.93	13.54	2.24	19.01	16.65	2.33	23.97	23.97	2.44	28.67	28.67	2.52	34.06	34.06	2.60
	1050	8.42	7.75	2.10	11.58	10.63	2.17	15.19	13.78	2.24	19.35	16.95	2.32	24.28	24.28	2.41	29.08	29.08	2.48	34.61	34.61	2.55
	1180	8.57	7.89	2.13	11.77	10.80	2.19	15.42	13.98	2.25	19.63	17.20	2.32	24.54	24.54	2.40	29.40	29.40	2.45	35.05	35.05	2.51

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

048 High Cool

CFM		EWB		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)												Total Sys KW		Capacity MBtuh		Total Sys KW		Capacity MBtuh		Total Sys KW							
				75 (23.9)			85 (29.4)			95 (35)			105 (40.5)													115 (46.1)			125 (51.7)		
				Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens											Capacity MBtuh	Total Sys KW	Sens	Capacity MBtuh	Total Sys KW	Sens
1400	57 (13.9)	47.11	47.11	2.97	44.71	44.71	3.38	42.15	42.15	3.86	39.43	39.43	4.41	36.54	36.54	5.03	33.45	33.45	5.72												
	62 (16.7)	48.61	43.41	2.98	45.76	41.86	3.39	42.79	40.20	3.87	39.69	38.37	4.41	36.59	36.59	5.03	33.49	33.49	5.72												
	63* (17.2)	49.20	35.20	2.98	46.30	33.84	3.40	43.23	32.41	3.87	40.00	30.92	4.41	36.61	29.37	5.03	33.04	27.72	5.72												
	67 (19.4)	53.05	36.63	3.01	49.87	35.20	3.42	46.54	33.72	3.90	43.04	32.17	4.44	39.37	30.57	5.05	35.55	28.88	5.74												
	72 (13.9)	57.95	29.84	3.04	54.46	28.46	3.45	50.80	27.03	3.93	46.99	25.54	4.47	42.99	24.00	5.08	38.80	22.38	5.77												
	57 (13.9)	49.16	49.16	3.03	46.58	46.58	3.45	43.82	43.82	3.93	40.91	40.91	4.48	37.82	37.82	5.10	34.53	34.53	5.79												
	62 (16.7)	49.94	46.53	3.04	47.00	44.81	3.45	43.92	43.92	3.93	40.98	40.98	4.48	37.87	37.87	5.10	34.58	34.58	5.79												
1600	63* (17.2)	50.40	37.46	3.04	47.35	36.04	3.46	44.12	34.55	3.93	40.73	33.00	4.48	37.20	31.37	5.09	33.51	29.60	5.78												
	67 (19.4)	54.35	39.05	3.07	51.01	37.55	3.48	47.50	36.00	3.96	43.83	34.41	4.50	40.01	32.71	5.12	36.01	30.93	5.80												
	72 (13.9)	59.33	31.33	3.10	55.66	29.89	3.51	51.82	28.40	3.99	47.83	26.86	4.53	43.65	25.25	5.15	39.30	23.58	5.83												
	57 (13.9)	50.93	50.93	3.10	48.17	48.17	3.51	45.25	45.25	4.00	42.16	42.16	4.54	38.88	38.88	5.16	35.42	35.42	5.85												
	62 (16.7)	51.07	51.07	3.10	48.26	48.26	3.51	45.32	45.32	4.00	42.22	42.22	4.54	38.94	38.94	5.16	35.46	35.46	5.85												
	63* (17.2)	51.36	39.62	3.10	48.17	38.15	3.51	44.83	36.60	3.99	41.31	34.98	4.54	37.65	33.24	5.15	33.86	31.35	5.84												
	67 (19.4)	55.37	41.38	3.12	51.89	39.81	3.54	48.24	38.21	4.02	44.44	36.52	4.56	40.49	34.75	5.18	36.37	32.81	5.86												
1800	72 (13.9)	60.42	32.73	3.15	56.58	31.25	3.57	52.59	29.71	4.05	48.47	28.11	4.59	44.14	26.45	5.21	39.66	24.72	5.89												

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

048 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
		-10 (-23.3)			0 (-17.8)			10 (-12.2)			20 (-6.7)		
EDB ° F (° C)	CFM	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65 (18.3)	1400	14.53	13.37	2.55	19.50	17.94	2.69	25.15	23.08	2.87	30.02	27.23	3.03
	1600	14.79	13.60	2.58	19.77	18.19	2.71	25.42	23.33	2.87	30.34	27.51	3.02
	1800	15.01	13.81	2.62	20.02	18.42	2.74	25.66	23.55	2.89	30.62	27.77	3.03
70 (21.1)	1400	14.00	12.88	2.66	18.97	17.46	2.81	24.76	22.73	3.00	29.67	26.91	3.17
	1600	14.26	13.12	2.69	19.26	17.72	2.83	25.08	23.02	3.00	29.97	27.18	3.16
	1800	14.49	13.33	2.72	19.53	17.97	2.86	25.33	23.25	3.02	30.26	27.44	3.17
75 (23.9)	1400	13.37	12.30	2.76	18.38	16.92	2.93	23.58	21.65	3.11	29.28	26.56	3.32
	1600	13.63	12.54	2.80	18.68	17.19	2.95	23.94	21.97	3.12	29.61	26.85	3.31
	1800	13.87	12.76	2.83	18.95	17.43	2.98	24.26	22.27	3.14	29.88	27.10	3.32

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
		30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
EDB ° F (° C)	CFM	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65 (18.3)	1400	35.53	31.13	3.21	41.86	41.86	3.43	49.38	49.38	3.69	57.39	57.39	3.97
	1600	35.92	31.48	3.20	42.35	42.35	3.40	49.83	49.83	3.62	56.49	56.49	3.90
	1800	36.26	31.77	3.20	42.74	42.74	3.40	49.29	49.29	3.61	55.21	55.21	3.87
70 (21.1)	1400	35.05	30.71	3.36	41.24	41.24	3.58	48.65	48.65	3.85	56.80	56.80	4.15
	1600	35.46	31.07	3.34	41.74	41.74	3.55	49.26	49.26	3.80	56.11	56.11	4.07
	1800	35.80	31.37	3.34	42.14	42.14	3.55	49.00	49.00	3.77	55.02	55.02	4.04
75 (23.9)	1400	34.59	30.31	3.52	40.64	40.64	3.75	47.91	47.91	4.03	56.18	56.18	4.33
	1600	34.97	30.64	3.50	41.13	41.13	3.71	48.49	48.49	3.98	55.71	55.71	4.26
	1800	35.31	30.94	3.50	41.53	41.53	3.70	48.62	48.62	3.94	54.73	54.73	4.23

See Legend and Notes on Page 37.

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 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	
1050	57 (13.8)	33.27	33.27	2.13	32.91	32.91	2.29	32.31	32.31	2.44	31.43	31.43	2.61	30.20	30.20	2.77	28.53	28.53	2.94
	62 (16.6)	34.14	31.57	2.12	33.49	31.34	2.28	32.60	30.95	2.44	31.48	31.48	2.61	30.25	30.25	2.77	28.57	28.57	2.94
	63* (17.2)	34.56	25.44	2.12	33.88	25.18	2.28	32.92	24.83	2.44	31.64	24.39	2.61	29.96	23.82	2.78	27.79	23.09	2.95
	67 (19.4)	37.33	26.48	2.10	36.59	26.21	2.26	35.55	25.84	2.42	34.17	25.38	2.59	24.80	24.80	2.76	30.02	24.05	2.93
	72 (22.2)	40.83	21.39	2.07	40.03	21.00	2.23	38.91	20.52	2.40	37.44	19.93	2.57	35.50	19.21	2.74	33.03	18.36	2.91
	57 (13.8)	34.64	34.64	2.17	34.21	34.21	2.32	33.54	33.54	2.48	32.56	32.56	2.64	31.21	31.21	2.80	29.39	29.39	2.97
	62 (16.6)	35.04	33.73	2.16	34.34	34.34	2.32	33.59	33.59	2.48	32.61	32.61	2.64	31.26	31.26	2.80	29.43	29.43	2.97
1200	63* (17.2)	35.33	27.01	2.16	34.58	26.78	2.32	33.54	26.45	2.48	32.17	26.02	2.64	25.43	25.43	2.81	28.12	24.64	2.98
	67 (19.4)	38.18	28.17	2.14	37.34	27.92	2.30	36.22	27.58	2.46	34.73	27.11	2.62	26.52	26.52	2.79	30.37	25.73	2.96
	72 (22.2)	41.74	22.41	2.11	40.84	22.01	2.27	39.64	21.52	2.43	38.06	20.93	2.60	20.21	20.21	2.77	33.40	19.33	2.94
	57 (13.8)	35.51	35.51	2.19	35.04	35.04	2.35	34.31	34.31	2.50	33.27	33.27	2.66	31.84	31.84	2.83	29.92	29.92	2.99
	62 (16.6)	35.63	35.63	2.19	35.10	35.10	2.35	34.37	34.37	2.50	33.32	33.32	2.66	31.88	31.88	2.82	29.95	29.95	2.99
1310	63* (17.2)	35.78	28.12	2.19	34.98	27.92	2.35	33.90	27.57	2.51	32.48	27.13	2.67	26.54	26.54	2.84	28.32	25.67	3.00
	67 (19.4)	38.66	29.36	2.17	37.79	29.14	2.33	36.60	28.77	2.49	35.06	28.32	2.65	27.71	27.71	2.82	30.57	26.86	2.99
	72 (22.2)	42.26	23.11	2.14	41.32	22.71	2.30	40.06	22.22	2.46	38.41	21.62	2.63	20.89	20.89	2.80	33.60	20.03	2.97

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

048 Low Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																				
		0 (-17.8)			10 (-12.2)			20 (-6.7)			30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
EDB	CFM	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	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ	
65 (18.3)	1050	11.11	10.22	2.08	14.97	13.74	2.18	19.32	17.52	2.28	24.76	21.69	2.40	29.74	29.74	2.50	35.43	35.43	2.60	41.98	41.98	2.72
	1200	11.33	10.43	2.10	15.24	13.98	2.19	19.64	17.81	2.29	25.09	21.98	2.39	30.12	30.12	2.47	35.92	35.92	2.56	42.67	42.67	2.66
	1310	11.50	10.58	2.12	15.42	14.15	2.21	19.86	18.01	2.30	25.30	22.17	2.40	30.37	30.37	2.47	36.23	36.23	2.55	43.10	43.10	2.64
70 (21.1)	1050	10.58	9.73	2.18	14.45	13.26	2.29	18.80	17.05	2.39	23.87	20.91	2.51	29.36	29.36	2.63	34.95	34.95	2.74	41.35	41.35	2.86
	1200	10.82	9.96	2.21	14.75	13.53	2.30	19.14	17.36	2.40	24.71	21.66	2.52	29.73	29.73	2.60	35.44	35.44	2.70	42.01	42.01	2.80
	1310	10.99	10.11	2.23	14.94	13.71	2.32	19.37	17.56	2.41	24.94	21.85	2.52	29.99	29.99	2.60	35.74	35.74	2.68	42.43	42.43	2.78
75 (23.9)	1050	9.98	9.18	2.28	13.89	12.74	2.39	18.25	16.55	2.51	23.17	20.30	2.63	28.97	28.97	2.77	34.46	34.46	2.88	40.76	40.76	3.01
	1200	10.23	9.42	2.31	14.18	13.01	2.41	18.59	16.86	2.52	23.59	20.67	2.62	29.34	29.34	2.74	34.94	34.94	2.84	41.38	41.38	2.95
	1310	10.39	9.56	2.33	14.37	13.19	2.43	18.82	17.06	2.53	23.90	20.94	2.63	29.58	29.58	2.73	35.25	35.25	2.82	41.77	41.77	2.92

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

060 High Cool EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																										
		75 (23.9)			85 (29.4)			95 (35)			105 (40.5)			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										
1750	EWB	57.44	3.93	54.77	4.30	51.93	4.72	48.86	5.20	45.50	5.74	41.82	6.35	57.44	3.93	54.77	4.30	51.93	4.72	48.86	5.20	45.50	5.74	41.82	6.35			
		(13.9)																										
		58.92	3.94	55.72	4.30	52.40	4.72	48.95	5.20	45.56	5.74	41.87	6.35	58.92	3.94	55.72	4.30	52.40	4.72	48.95	5.20	45.56	5.74	41.87	6.35			
		(16.7)																										
		59.72	3.95	56.43	4.31	53.00	4.72	49.26	5.20	45.27	5.74	40.98	6.33	59.72	3.95	56.43	4.31	53.00	4.72	49.26	5.20	45.27	5.74	40.98	6.33			
		(17.2)																										
		64.33	3.96	60.76	4.33	57.00	4.75	52.98	5.23	48.64	5.78	44.00	6.38	64.33	3.96	60.76	4.33	57.00	4.75	52.98	5.23	48.64	5.78	44.00	6.38			
	(19.4)																											
2000	EWB	70.52	3.98	66.58	4.35	62.44	4.78	58.02	5.27	53.26	5.82	48.13	6.43	70.52	3.98	66.58	4.35	62.44	4.78	58.02	5.27	53.26	5.82	48.13	6.43			
		(13.9)																										
		59.81	4.03	56.94	4.40	53.87	4.82	50.58	5.30	46.95	5.84	43.01	6.45	59.81	4.03	56.94	4.40	53.87	4.82	50.58	5.30	46.95	5.84	43.01	6.45			
		(13.9)																										
		60.44	4.04	57.14	4.40	53.98	4.82	50.65	5.30	47.02	5.85	43.07	6.45	60.44	4.04	57.14	4.40	53.98	4.82	50.65	5.30	47.02	5.85	43.07	6.45			
		(16.7)																										
		60.98	4.04	57.52	4.40	53.86	4.82	50.02	5.29	45.85	5.83	41.42	6.43	60.98	4.04	57.52	4.40	53.86	4.82	50.02	5.29	45.85	5.83	41.42	6.43			
	(17.2)																											
2250	EWB	65.66	4.06	61.92	4.42	57.95	4.84	53.76	5.33	49.23	5.87	44.43	6.47	65.66	4.06	61.92	4.42	57.95	4.84	53.76	5.33	49.23	5.87	44.43	6.47			
		(19.4)																										
		71.93	4.07	67.84	4.44	63.49	4.87	58.87	5.36	48.14	5.94	43.96	6.52	71.93	4.07	67.84	4.44	63.49	4.87	58.87	5.36	48.14	5.94	43.96	6.52			
		(13.9)																										
		61.83	4.13	58.77	4.49	55.50	4.91	51.98	5.40	48.14	5.94	43.96	6.55	61.83	4.13	58.77	4.49	55.50	4.91	51.98	5.40	48.14	5.94	43.96	6.55			
		(13.9)																										
		61.94	4.13	58.88	4.49	55.59	4.91	52.06	5.40	48.20	5.95	44.01	6.55	61.94	4.13	58.88	4.49	55.59	4.91	52.06	5.40	48.20	5.95	44.01	6.55			
	(16.7)																											
2250	EWB	61.94	4.13	58.35	4.49	54.57	4.91	50.55	5.39	46.29	5.92	41.76	6.52	61.94	4.13	58.35	4.49	54.57	4.91	50.55	5.39	46.29	5.92	41.76	6.52			
		(17.2)																										
		66.67	4.15	62.78	4.51	58.68	4.93	54.31	5.42	49.66	5.96	44.75	6.56	66.67	4.15	62.78	4.51	58.68	4.93	54.31	5.42	49.66	5.96	44.75	6.56			
		(19.4)																										
	73.03	4.16	68.77	4.53	64.27	4.96	59.45	5.45	54.27	6.00	48.82	6.61	73.03	4.16	68.77	4.53	64.27	4.96	59.45	5.45	54.27	6.00	48.82	6.61				
	(13.9)																											

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

060 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
		-10 (-23.3)			0 (-17.8)			10 (-12.2)			20 (-6.7)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
EDB ° F (° C)	CFM	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ
65 (18.3)	1750	17.80	16.38	23.12	21.27	3.09	3.24	29.49	27.07	3.45	35.51	32.20	3.66
	2000	18.09	16.65	23.46	21.58	3.14	3.29	29.85	27.39	3.49	35.90	32.56	3.68
	2250	18.38	16.91	23.78	21.88	3.20	3.34	30.14	27.67	3.53	36.27	32.89	3.72
70 (21.1)	1750	17.37	15.98	22.62	20.81	3.23	3.39	29.17	26.77	3.61	35.11	31.84	3.82
	2000	17.67	16.26	22.97	21.14	3.28	3.43	29.52	27.09	3.64	35.49	32.18	3.84
	2250	17.95	16.52	23.30	21.44	3.34	3.48	29.84	27.39	3.68	35.85	32.51	3.88
75 (23.9)	1750	16.92	15.57	22.13	20.37	3.38	3.54	28.05	25.74	3.73	34.74	31.51	3.98
	2000	17.23	15.85	22.48	20.68	3.43	3.58	28.55	26.21	3.77	35.11	31.85	4.00
	2250	17.51	16.11	22.80	20.98	3.49	3.63	29.46	27.04	3.84	35.45	32.15	4.04

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)											
		30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
EDB ° F (° C)	CFM	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ
65 (18.3)	1750	42.61	37.33	50.89	50.89	4.17	4.17	60.88	60.88	4.50	72.89	72.89	4.89
	2000	43.12	37.78	51.52	51.52	4.17	4.17	61.59	61.59	4.49	73.28	73.28	4.86
	2250	43.57	38.18	52.05	52.05	4.20	4.20	62.16	62.16	4.52	73.30	73.30	4.89
70 (21.1)	1750	42.05	36.84	50.17	50.17	4.06	4.34	59.99	59.99	4.68	71.93	71.93	5.11
	2000	42.55	37.28	50.79	50.79	4.07	4.34	60.73	60.73	4.67	72.49	72.49	5.06
	2250	42.99	37.67	51.31	51.31	4.10	4.37	61.29	61.29	4.70	72.59	72.59	5.08
75 (23.9)	1750	41.51	36.37	49.47	49.47	4.23	4.52	59.13	59.13	4.87	70.88	70.88	5.33
	2000	41.99	36.79	50.07	50.07	4.24	4.52	59.86	59.86	4.86	71.62	71.62	5.28
	2250	42.42	37.16	50.58	50.58	4.27	4.54	60.44	60.44	4.88	71.82	71.82	5.29

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

060 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)		Total Sys KW		Capacity MBtuh		Total Sys KW	
		Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens						
CFM	EWB	Capacity MBtuh	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	
1200	57 (13.8)	40.13	40.13	2.50	39.38	39.38	2.95	38.39	38.39	3.46	37.11	37.11	4.05	35.44	35.44	4.74	33.29	33.29	5.53
	62 (16.6)	41.27	37.88	2.49	40.14	37.00	2.94	38.78	35.99	3.46	37.18	37.18	4.05	35.49	35.49	4.74	33.34	33.34	5.53
	63* (17.2)	41.89	30.79	2.49	40.71	29.98	2.94	39.27	29.11	3.45	37.48	28.13	4.05	35.23	27.02	4.74	32.48	25.74	5.54
	67 (19.4)	45.24	32.06	2.46	43.95	31.22	2.91	42.39	30.32	3.43	40.45	29.33	4.02	38.06	28.21	4.72	35.12	26.94	5.52
	72 (22.2)	49.70	26.10	2.42	48.29	25.23	2.87	46.59	24.29	3.39	44.50	23.26	3.99	41.93	22.13	4.68	38.79	20.87	5.48
1400	57 (13.8)	42.19	42.19	2.53	41.32	41.32	2.98	40.21	40.21	3.49	38.78	38.78	4.09	36.94	36.94	4.78	34.60	34.60	5.57
	62 (16.6)	42.61	41.01	2.53	41.43	41.43	2.98	40.30	40.30	3.49	38.84	38.84	4.09	36.98	36.98	4.78	34.64	34.64	5.57
	63* (17.2)	43.05	33.17	2.53	41.75	32.33	2.98	40.19	31.42	3.49	38.27	30.40	4.09	35.91	29.23	4.79	33.04	27.85	5.59
	67 (19.4)	46.48	34.60	2.50	45.07	33.74	2.95	43.37	32.81	3.47	41.30	31.77	4.07	38.76	30.60	4.76	35.69	29.24	5.56
	72 (22.2)	51.04	27.68	2.46	49.50	26.79	2.91	47.65	25.81	3.43	45.42	24.76	4.03	42.66	23.59	4.73	39.35	22.29	5.53
1545	57 (13.8)	43.47	43.47	2.55	42.52	42.52	3.00	41.32	41.32	3.52	39.79	39.79	4.11	37.84	37.84	4.81	35.38	35.38	5.60
	62 (16.6)	43.55	43.55	2.55	42.59	42.59	3.00	41.38	41.38	3.52	39.85	39.85	4.11	37.88	37.88	4.80	35.41	35.41	5.60
	63* (17.2)	43.71	34.82	2.55	42.35	33.95	3.01	40.72	33.01	3.53	38.74	31.95	4.13	36.29	30.73	4.82	33.36	29.25	5.62
	67 (19.4)	47.19	36.38	2.52	45.70	35.50	2.98	43.93	34.53	3.50	41.78	33.45	4.10	39.16	32.22	4.79	36.02	30.77	5.60
	72 (22.2)	51.81	28.77	2.48	50.18	27.86	2.94	48.25	26.87	3.46	45.91	25.79	4.06	43.06	24.60	4.76	39.63	23.29	5.56

See Legend and Notes on Page 37.

PERFORMANCE DATA (CONT)

060 Low Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																					
		0 (-17.8)			10 (-12.2)			20 (-6.7)			30 (-1.1)			40 (4.4)			50 (10)			60 (15.6)			
EDB	CFM	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	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		
65 (18.3)	1200	13.75	12.65	2.74	18.28	16.78	2.81	23.27	21.10	2.88	29.47	25.83	34.90	34.90	2.99	34.90	34.90	40.90	40.90	3.11	47.80	47.80	3.19
	1400	14.02	12.90	2.76	18.61	17.08	2.81	23.65	21.45	2.87	29.87	26.17	35.33	35.33	2.95	35.33	35.33	41.47	41.47	3.03	48.64	48.64	3.09
	1545	14.20	13.07	2.77	18.83	17.29	2.82	23.92	21.69	2.87	30.11	26.38	35.61	35.61	2.94	35.61	35.61	41.82	41.82	2.99	49.14	49.14	3.04
70 (21.1)	1200	13.07	12.02	2.88	17.65	16.20	2.96	22.63	20.53	3.03	28.19	24.70	34.46	34.46	3.11	34.46	34.46	40.36	40.36	3.28	47.09	47.09	3.37
	1400	13.34	12.27	2.90	17.97	16.49	2.96	23.03	20.88	3.02	28.69	25.14	34.88	34.88	3.08	34.88	34.88	40.92	40.92	3.20	47.90	47.90	3.26
	1545	13.52	12.44	2.92	18.18	16.69	2.97	23.29	21.12	3.02	29.10	25.50	35.15	35.15	3.07	35.15	35.15	41.27	41.27	3.16	48.38	48.38	3.21
75 (23.9)	1200	12.34	11.35	3.02	16.96	15.56	3.10	21.96	19.92	3.18	27.47	24.07	34.00	34.00	3.27	34.00	34.00	39.82	39.82	3.46	46.37	46.37	3.55
	1400	12.59	11.59	3.04	17.28	15.86	3.11	22.36	20.28	3.17	27.95	24.49	34.45	34.45	3.23	34.45	34.45	40.38	40.38	3.38	47.15	47.15	3.44
	1545	12.78	11.76	3.06	17.50	16.06	3.12	22.62	20.52	3.17	28.27	24.77	34.71	34.71	3.22	34.71	34.71	40.72	40.72	3.34	47.63	47.63	3.39

See Legend and Notes on Page 37.

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:

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

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

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

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

4. The SHC is based on 805 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 = $1.10 \times (1 + \text{BF}) \times (\text{edb} - 80)$.

5. Integrated capacity is maximum (instantaneous) capacity less the effect of frost on the outdoor coil and the heat required to defrost it.

PERFORMANCE DATA (CONT)

GAS ADJUSTMENT

Natural Gas Orifice Sizes and Manifold Pressure

208/230VAC Models

Nameplate Input, High Stage (Btu/hr)		ALTITUDE OF INSTALLATION (FT. [m] ABOVE SEA LEVEL) U.S.A.*				
		0 to 2000 [0 to 610]	2001 to 3000* [610 to 914]	3001 to 4000 [915 to 1219]	4001 to 5000 [1220 to 1524]	5001 to 6000 [1524 to 1829]
40000	Orifice No. (Qty)	44 (2)	45 (2)†	48 (2)†	48 (2)†	48 (2)†
	Manifold Press. High / Low (in. W.C.)	3.2 / 1.4	3.2 / 1.4	3.8 / 1.6	3.5 / 1.5	3.2 / 1.4
60000	Orifice No. (Qty)	44 (3)	45 (3)†	48 (3)†	48 (3)†	48 (3)†
	Manifold Press. High / Low (in. W.C.)	3.2 / 1.4	3.2 / 1.4	3.8 / 1.6	3.5 / 1.5	3.2 / 1.4
90000	Orifice No. (Qty)	38 (3)	41 (3)†	41 (3)†	42 (3)†	42 (3)†
	Manifold Press. High / Low (in. W.C.)	3.6 / 1.6	3.8 / 1.6	3.4 / 1.5	3.4 / 1.5	3.2 / 1.4
115000	Orifice No. (Qty)	33 (3)	36 (3)†	36 (3)†	36 (3)†	38 (3)†
	Manifold Press. High / Low (in. W.C.)	3.8 / 1.7	3.8 / 1.7	3.6 / 1.6	3.3 / 1.4	3.6 / 1.5
127000	Orifice No. (Qty)	31 (3)	31 (3)	33 (3)†	33 (3)†	34 (3)†
	Manifold Press. High / Low (in. W.C.)	3.7 / 1.7	3.2 / 1.4	3.5 / 1.6	3.2 / 1.4	3.2 / 1.4
130000	Orifice No. (Qty)	31 (3)	31 (3)	33 (3)†	33 (3)†	34 (3)†
	Manifold Press. High / Low (in. W.C.)	3.8 / 1.7	3.2 / 1.4	3.7 / 1.6	3.4 / 1.4	3.3 / 1.4

*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, use U.S.A. column 2001 to 3000 ft (610 to 914 m).

† Orifices available through your distributor.

NOTE: Orifice sizes and manifold pressure settings are based on natural gas with a heating value of 1025 Btu/ft³ and a specific gravity of .6.

Propane Gas Orifice Sizes and Manifold Pressure

208/230VAC Models

Nameplate Input, High Stage (Btu/hr)		ALTITUDE OF INSTALLATION (FT. ABOVE SEA LEVEL) U.S.A.*†				
		0 to 2000 [0 to 610]	2001 to 3000* [610 to 914]	3001 to 4000 [915 to 1219]	4001 to 5000 [1220 to 1524]	5001 to 6000 [1524 to 1829]
40000	Orifice No. (Qty)	55 (2)	56 (2)	56 (2)	56 (2)	56 (2)
	Manifold Press. High / Low (in. W.C.)	10.0/5.0	11.0/6.0	11.0/5.5	11.0/5.0	10.7/4.8
60000	Orifice No. (Qty)	55 (3)	56 (3)	56 (3)	56 (3)	56 (3)
	Manifold Press. High / Low (in. W.C.)	10.0/5.0	11.0/6.0	11.0/5.5	11.0/5.0	10.7/4.8
90000	Orifice No. (Qty)	53 (3)	54 (3)	54 (3)	54 (3)	54 (3)
	Manifold Press. High / Low (in. W.C.)	10.0/5.4	11.0/6.4	11.0/5.9	11.0/5.4	11.0/5.0
115000	Orifice No. (Qty)	51 (3)	52 (3)	52 (3)	53 (3)	53 (3)
	Manifold Press. High / Low (in. W.C.)	10.0/5.4	11.0/5.0	10.6/4.8	11.0/6.1	11.0/5.5
127,000 (1-Phase)	Orifice No. (Qty)	49 (3)	50 (3)	51 (3)	52 (3)	52 (3)
	Manifold Press. High / Low (in. W.C.)	10.0/5.4	11.0/4.8	11.0/4.9	11.0/5.2	11.0/5.0
130000 (3-Phase)	Manifold Press. High / Low (in. W.C.)	10.0/5.4	11.0/4.8	11.0/4.9	11.0/5.2	11.0/5.0

*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, use U.S.A. column 2001 to 3000 ft (610 to 914 m).

† Use Kit No. CPLPCONV013C00 (0–2000 ft [0–610 m] above sea level). Use Kit No. CPLPCONV014C00 (2001–6000 ft [611–1829 m] above sea level).

PERFORMANCE DATA (CONT)

High Altitude Compensation: Natural Gas 208/230VAC Models

Nameplate Input, High Stage (Btu/hr)	Rated Heating Input (Btu/hr), Natural Gas at Installation Altitude Above Sea Level, U.S.A.*									
	0 to 2000 ft 0 to 610 m		2001 to 3000 ft* 610 to 914 m		3001 to 4000 ft 915 to 1219 m		4001 to 5000 ft 1220 to 1524 m		5001 to 6000 ft 1524 to 1829 m	
	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage
40000	40000	26000	36000	23400	34400	22300	32800	21300	31200	20300
60000	60000	39000	54000	35100	51600	33500	49200	32000	46800	30400
90000	90000	58500	81000	52700	77400	50300	73800	48000	70200	45600
115000	115000	75000	103500	67500	98900	64500	94300	61500	89700	58500
127000 (1-Phase)	127000	84500	117000	76100	111800	72700	106600	69300	101400	65900
130000 (3-Phase)	130000	84500	117000	76100	111800	72700	106600	69300	101400	65900

*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: Propane Gas 208/230VAC Models

Nameplate Input, High Stage (Btu/hr)	Rated Heating Input (Btu/hr), LP Gas at Installation Altitude Above Sea Level, U.S.A.*									
	0 to 2000 ft 0 to 610 m		2001 to 3000 ft* 610 to 914 m		3001 to 4000 ft 915 to 1219 m		4001 to 5000 ft 1220 to 1524 m		5001 to 6000 ft 1524 to 1829 m	
	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage
40000	38000	26000	31700	23400	31700	22300	31700	21300	31200	20300
60000	57000	39000	47500	35100	47500	33500	47500	32000	46800	30400
90000	79000	58500	68900	52700	68900	50300	68600	48000	68600	45600
115000	103000	75000	100400	67500	98900	64500	83000	61500	83000	58500
127000 (1-Phase)	116000	84500	115500	76100	111800	72700	101300	69300	100400	65900
130000 (3-Phase)	116000	84500	115500	76100	111800	72700	101300	69300	100400	65900

*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 COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)													
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1				
24040	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	714	525	--	--	--	--	--	--	--	--	--	--		
					BHP	0.08	0.07	--	--	--	--	--	--	--	--	--	--	--	--
					Low Stage Heat Rise °F (°C)	27 (15)	37 (21)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
			CFM	777	692	583	465	318	--	--	--	--	--	--	--	--	--	--	
			BHP	0.09	0.10	0.10	0.11	0.12	--	--	--	--	--	--	--	--	--	--	
		Low Stage Cooling Alternate Low Stage Gas Heating	Med - Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating	Low Stage Heat Rise °F (°C)	25 (14)	28 (16)	34 (19)	42 (23)	NA	NA	NA	NA	NA	NA	NA		
		High Stage Heating	Medium ⁴	Red	High Stage Heating Alternate High Stage Cooling Alternate Low Stage Gas Heating	High Stage Heat Rise °F (°C)	39 (21)	43 (24)	51 (29)	NA	NA	NA	NA	NA	NA	NA	NA		
		CFM	743	694	628	563	497	426	300	--	--	--	--	--	--	--	--		
		BHP	0.12	0.13	0.13	0.13	0.14	0.15	0.15	--	--	--	--	--	--	--	--		
		High Stage Cooling Alternate High Stage Gas Heating	Med - High ²	Orange	High Stage Cooling Alternate High Stage Gas Heating	Low Stage Heat Rise °F (°C)	26 (15)	28 (16)	31 (17)	35 (19)	39 (22)	46 (25)	NA	NA	NA	NA	NA		
		CFM	904	841	769	705	628	522	372	--	--	--	--	--	--	--	--		
	BHP	0.16	0.17	0.17	0.18	0.19	0.19	0.20	--	--	--	--	--	--	--	--			
	High Static, High Stage Cooling Only	High	Black	High Static, High Stage Cooling Only	High Stage Heat Rise °F (°C)	33 (18)	36 (20)	39 (22)	42 (24)	48 (26)	NA	NA	NA	NA	NA	NA			
	CFM	1291	1206	1142	1081	1017	951	888	823	753	668	--	--	--	--	--			
	BHP	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.37	--	--	--	--	--			

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.
"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)													
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1				
24060	25 – 55°F Low Stage, 25 – 55°F High Stage	Low ¹	Blue	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	714	525	--	--	--	--	--	--	--	--	--	--		
					BHP	0.08	0.07	--	--	--	--	--	--	--	--	--	--	--	--
					Low Stage Heat Rise °F (°C)	41 (23)	55 (31)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
						High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
						CFM	777	692	583	465	318	--	--	--	--	--	--	--	--
						BHP	0.09	0.10	0.10	0.11	0.12	--	--	--	--	--	--	--	--
			Med – Low ³	Pink	Low Stage Gas Heating Alternate Low Stage Cooling	Low Stage Heat Rise °F (°C)	38 (21)	43 (24)	50 (28)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
			Medium ²	Red	High Stage Cooling Alternate Low Stage Gas Heating Alternate High Stage Gas Heating	CFM	904	841	769	705	628	522	372	--	--	--	--	--	
						BHP	0.16	0.17	0.17	0.18	0.19	0.19	0.20	--	--	--	--	--	
						Low Stage Heat Rise °F (°C)	33 (18)	35 (19)	38 (21)	42 (23)	47 (26)	NA	NA	NA	NA	NA	NA	NA	
						High Stage Heat Rise °F (°C)	50 (28)	54 (30)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		Med – High ⁴	Orange	High Stage Gas Heating Alternate High Stage Cooling	CFM	1229	1171	1105	1049	980	913	838	775	679	516	0.33	0.33		
					BHP	0.28	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.34	0.34	0.34		
					Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
					High Stage Heat Rise °F (°C)	37 (20)	39 (21)	41 (23)	43 (24)	46 (26)	50 (28)	54 (30)	NA	NA	NA	NA	NA		
		High	Black	High Static, High Stage Cooling Only	CFM	1291	1206	1142	1081	1017	951	888	823	753	668	0.36	0.37		
					BHP	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.37	0.37	0.37		

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)															
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1						
30040	15 - 45°F Low Stage, 20 - 50°F High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	714	525	--	--	--	--	--	--	--	--	--	--				
					BHP	0.08	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	
					Low Stage Heat Rise °F (°C)	26 (15)	36 (20)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
					High Stage Heat Rise °F (°C)	41 (23)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
					CFM	831	765	670	586	466	376.5	--	--	--	--	--	--	--	--	--	--
					BHP	0.11	0.12	0.12	0.13	0.13	0.14	--	--	--	--	--	--	--	--	--	--
	Med - Low ¹	Low Stage Gas Heating Alternate Low Stage Cooling	Pink	Low Stage Heat Rise °F (°C)	23 (13)	25 (14)	28 (16)	32 (18)	40 (22)	NA	NA	NA	NA	NA	NA	NA	NA	NA			
					High Stage Heat Rise °F (°C)	35 (19)	38 (21)	43 (24)	50 (28)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
					CFM	877	779	698	598	519	410	--	--	--	--	--	--	--	--	--	
					BHP	0.12	0.12	0.13	0.14	0.15	0.15	--	--	--	--	--	--	--	--	--	
					Low Stage Heat Rise °F (°C)	21 (12)	24 (13)	27 (15)	31 (17)	36 (20)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
					High Stage Heat Rise °F (°C)	33 (18)	37 (21)	42 (23)	49 (27)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Med - High ²	High Stage Gas Heating	Red	High Stage Gas Heating	CFM	1139	1069	1012	937	870	786	724	626	512	381	0.28						
				BHP	0.22	0.23	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28					
				Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
				High Stage Heat Rise °F (°C)	26 (14)	27 (15)	29 (16)	31 (17)	33 (19)	37 (21)	40 (22)	47 (26)	NA	NA	NA	NA					
				CFM	1531	1460	1382	1301	1209	1114	1003	890	764	629							
				BHP	0.53	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.37	0.35							

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.
"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions	External Static Pressure (in. WC)												
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
30060	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	777	692	583	465	318	--	--	--	--	--	--	
					BHP	0.09	0.10	0.10	0.11	0.12	--	--	--	--	--	--	
					Low Stage Heat Rise °F (°C)	37 (21)	41 (23)	49 (27)	NA	NA	NA	NA	NA	NA	NA	NA	
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA								
					CFM	831	765	670	586	466	299	--	--	--	--	--	
					BHP	0.11	0.12	0.12	0.13	0.13	0.14	--	--	--	--	--	
	25 - 55°F Low Stage, 25 - 55°F High Stage	Med - Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating	Low Stage Heat Rise °F (°C)	34 (19)	37 (21)	43 (24)	49 (27)	NA	NA	NA	NA	NA	NA	NA	NA
					High Stage Heat Rise °F (°C)	54 (30)	NA	NA	NA	NA							
					CFM	1139	1069	1012	937	870	786	724	626	512	381		
					BHP	0.22	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.28		
					Low Stage Heat Rise °F (°C)	25 (14)	27 (15)	28 (16)	30 (17)	33 (18)	36 (20)	39 (22)	46 (26)	NA	NA		
					High Stage Heat Rise °F (°C)	39 (22)	42 (23)	44 (24)	47 (26)	51 (28)	NA	NA	NA	NA	NA		
25 - 55°F Low Stage, 25 - 55°F High Stage	Medium ²	Red	High Stage Gas Heating Alternate High Stage Gas Heating	CFM	1229	1171	1105	1049	980	913	838	775	679	516			
				BHP	0.28	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.33			
				Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
				High Stage Heat Rise °F (°C)	36 (20)	38 (21)	40 (22)	42 (23)	45 (25)	49 (27)	53 (29)	NA	NA	NA			
				CFM	1531	1460	1382	1301	1209	1114	1003	890	764	629			
				BHP	0.53	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.37	0.35			
25 - 55°F Low Stage, 25 - 55°F High Stage	High	Black	High Static, High Stage Cooling Only	High Stage Gas Heating Alternate High Stage Cooling	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
				High Static, High Stage Cooling Only	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
				CFM	1531	1460	1382	1301	1209	1114	1003	890	764	629			
				BHP	0.53	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.37	0.35			
				High Stage Gas Heating Alternate High Stage Cooling	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
				High Static, High Stage Cooling Only	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions	External Static Pressure (in. WC)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
36060	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	Low Stage Gas Heating	CFM	694	624	533	460	383	328	--	--	--	--
					BHP	0.05	0.05	0.06	0.07	0.07	0.08	--	--	--	--
					Low Stage Heat Rise °F (°C)	41 (23)	46 (25)	54 (30)	NA	NA	NA	NA	NA	NA	NA
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
					CFM	934	864	810	745	698	649	571	525	486	428
	BHP	0.10	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.17				
	Low Stage Cooling Alternate Low Stage Gas Heating	31 (17)	33 (18)	35 (20)	38 (21)	41 (23)	44 (24)	50 (28)	54 (30)	NA	NA				
	High Stage Heating	48 (26)	52 (29)	55 (31)	NA	NA	NA	NA	NA	NA	NA				
	CFM	1213	1169	1110	1065	1016	964	923	878	820	777				
	BHP	0.16	0.17	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25				
Low Stage Heating Alternate High Stage Cooling	NA	NA	26 (14)	27 (15)	28 (16)	30 (16)	31 (17)	33 (18)	35 (19)	37 (20)					
High Stage Heating	37 (20)	38 (21)	40 (22)	42 (23)	44 (24)	46 (26)	48 (27)	51 (28)	54 (30)	NA					
CFM	1251	1198	1149	1104	1066	1017	970	932	892	839					
BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29					
Low Stage Heating Alternate High Stage Gas Heating	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
High Stage Heating	36 (20)	37 (21)	39 (22)	40 (22)	42 (23)	44 (24)	46 (25)	48 (27)	50 (28)	53 (29)					
CFM	1466	1423	1384	1343	1308	1263	1219	1183	1145	1106					
BHP	0.30	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.40	0.41					

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.
"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions	External Static Pressure (in. WC)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
36090	35 – 65°F Low Stage, 35 – 65°F High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	1097	971	823	747	669	636	558	513	456	412
					BHP	0.12	0.11	0.10	0.11	0.12	0.13	0.13	0.14	0.15	0.16
		Med – Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	934	864	810	745	698	649	571	525	486	428
					BHP	0.10	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.17
		Medium ²	Red	High Stage Cooling Alternate Low Stage Gas Heating Alternate High Stage Gas Heating	CFM	1251	1198	1149	1104	1066	1017	970	932	892	839
					BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29
		Med – High ⁴	Orange	High Stage Gas Heating Alternate High Stage Cooling	CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130	1094
					BHP	0.29	0.30	0.31	0.32	0.32	0.35	0.36	0.37	0.38	0.39
		High	Black	High Static, High Stage Cooling Only	CFM	1466	1423	1384	1343	1308	1263	1219	1183	1145	1106
					BHP	0.30	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.40	0.41

Notes:

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

¹ Factory-shipped low stage cooling speed

² Factory-shipped high stage cooling speed

³ Factory-shipped low stage gas heating speed

⁴ Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)											
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		
42060	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	Low Stage Gas Heating	CFM	694	624	533	460	383	328	--	--	--	--	--	
					BHP	0.05	0.05	0.06	0.07	0.07	0.08	--	--	--	--	--	
					Low Stage Heat Rise °F (°C)	41 (23)	46 (25)	54 (30)	NA	NA	NA						
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
					CFM	1076	1026	972	918	872	827	771	714	666	611		
					BHP	0.13	0.14	0.15	0.15	0.17	0.18	0.18	0.20	0.21	0.22		
	25 - 55°F Low Stage, 25 - 55°F High Stage	Med - Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating Alternate High Stage Gas Heating	Low Stage Heat Rise °F (°C)	27 (15)	28 (15)	29 (16)	31 (17)	33 (18)	35 (19)	37 (21)	40 (22)	43 (24)	47 (26)		
					High Stage Heat Rise °F (°C)	41 (23)	43 (24)	46 (25)	48 (27)	51 (28)	54 (30)	NA	NA	NA	NA		
					CFM	1213	1169	1110	1065	1016	964	923	878	820	777		
					BHP	0.16	0.17	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25		
					Low Stage Heat Rise °F (°C)	NA	NA	26 (14)	27 (15)	28 (16)	30 (16)	31 (17)	33 (18)	35 (19)	37 (20)		
					High Stage Heat Rise °F (°C)	37 (20)	38 (21)	40 (22)	42 (23)	44 (24)	46 (26)	48 (27)	51 (28)	54 (30)	NA		
25 - 55°F Low Stage, 25 - 55°F High Stage	Medium ⁴	Red	High Stage Cooling Alternate High Stage Cooling Alternate Low Stage Gas Heating	CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130	1094			
				BHP	0.29	0.30	0.31	0.32	0.32	0.35	0.36	0.37	0.38	0.39			
				Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
				High Stage Heat Rise °F (°C)	31 (17)	31 (17)	32 (18)	34 (18)	35 (19)	36 (20)	37 (20)	38 (21)	39 (22)	41 (23)			
				CFM	1633	1590	1552	1518	1483	1444	1406	1372	1340	1303			
				BHP	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.53			
42060	High	Black	High Stage Cooling Alternate High Stage Gas Heating	High Stage Cooling Alternate High Stage Gas Heating	1633	1590	1552	1518	1483	1444	1406	1372	1340	1303			
				High Stage Cooling Only	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.53			

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions	External Static Pressure (in. WC)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
42090	35 – 65°F Low Stage, High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	1097	971	823	747	669	636	558	513	456	412
					BHP	0.12	0.11	0.10	0.11	0.12	0.13	0.13	0.14	0.15	0.16
					Low Stage Heat Rise °F (°C)	39 (22)	44 (25)	52 (29)	58 (32)	64 (36)	NA	NA	NA	NA	NA
					High Stage Heat Rise °F (°C)	61 (34)	NA	NA							
	35 – 65°F High Stage	Med – Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	1076	1026	972	918	872	827	771	714	666	611
					BHP	0.13	0.14	0.15	0.15	0.17	0.18	0.18	0.20	0.21	0.22
					Low Stage Heat Rise °F (°C)	40 (22)	42 (23)	44 (25)	47 (26)	49 (27)	52 (29)	56 (31)	60 (33)	64 (36)	NA
					High Stage Heat Rise °F (°C)	NA	NA								
	35 – 65°F High Stage	Medium ⁴	Red	High Stage Gas Heating Alternate High Stage Cooling Alternate Low Stage Gas Heating	CFM	1251	1198	1149	1104	1066	1017	970	932	892	839
					BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29
Low Stage Heat Rise °F (°C)					NA	36 (20)	37 (21)	39 (22)	40 (22)	42 (23)	44 (25)	46 (26)	48 (27)	51 (28)	
High Stage Heat Rise °F (°C)					54 (30)	56 (31)	59 (33)	61 (34)	63 (35)	NA	NA	NA	NA	NA	
	Med – High ²	Orange	High Stage Cooling Alternate High Stage Gas Heating	CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130	1094	
				BHP	0.29	0.30	0.31	0.32	0.32	0.35	0.36	0.37	0.38	0.39	
				Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
				High Stage Heat Rise °F (°C)	46 (26)	48 (26)	49 (27)	51 (28)	52 (29)	54 (30)	56 (31)	58 (32)	60 (33)	62 (34)	
	High ⁴	Black	High Static, High Stage Cooling Only	CFM	1633	1590	1552	1518	1483	1444	1406	1372	1340	1303	
				BHP	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.53	

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
48115	30 – 60°F Low Stage, 30 – 60°F High Stage	Low ¹	Blue	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	1271	1229	1177	1121	1066	1027	974	942	887	839	
					BHP	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
		Med – Low ³	Pink	Low Stage Gas Heating	Low Stage Heat Rise °F (°C)	44 (24)	45 (25)	47 (26)	50 (28)	52 (29)	54 (30)	57 (32)	59 (33)	NA	NA	NA
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Medium ²	Red	High Stage Heating	CFM	1340	1299	1240	1191	1139	1091	1050	1001	952	895	
					BHP	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31	0.32	
		High	Black	High Static, High Stage Cooling Only	Low Stage Heat Rise °F (°C)	42 (23)	43 (24)	45 (25)	47 (26)	49 (27)	51 (28)	53 (30)	56 (31)	59 (33)	NA	NA
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med – High ⁴	Orange	High Stage Gas Heating	CFM	1686	1650	1617	1576	1544	1503	1468	1433	1393	1356	
					BHP	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.53	0.55	
High	Black	High Stage Heating	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
			High Stage Heat Rise °F (°C)	52 (29)	53 (29)	54 (30)	55 (31)	56 (31)	58 (32)	59 (33)	NA	NA	NA	NA		
High	Black	High Stage Heating	CFM	1854	1837	1781	1784	1720	1698	1655	1625	1578	1532			
			BHP	0.56	0.57	0.60	0.59	0.62	0.63	0.64	0.66	0.67	0.67			
High	Black	High Stage Heating	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
			High Stage Heat Rise °F (°C)	47 (26)	47 (26)	49 (27)	49 (27)	51 (28)	51 (28)	53 (29)	53 (30)	55 (31)	57 (32)	NA		
High	Black	High Stage Heating	CFM	1934	1900	1855	1815	1778	1737	1695	1656	1606	1528			
			BHP	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.70	0.68			

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)										
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
48130	35 – 65°F Low Stage, 35 – 65°F High Stage	Low ¹	Blue	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	1271	1229	1177	1121	1066	1027	974	942	887	839	
					BHP	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
		Med – Low ³	Pink	Low Stage Gas Heating	Low Stage Heat Rise °F (°C)	49 (27)	51 (28)	53 (30)	56 (31)	59 (33)	61 (34)	64 (36)	NA	NA	NA	NA
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Medium ²	Red	High Stage Heating	CFM	1340	1299	1240	1191	1139	1091	1050	1001	952	895	
					BHP	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31	0.32	
		High	Black	High Static, High Stage Cooling Only	Low Stage Heat Rise °F (°C)	47 (26)	48 (27)	51 (28)	53 (29)	55 (31)	57 (32)	60 (33)	63 (35)	NA	NA	
					High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med – High ⁴	Orange	High Stage Gas Heating	CFM	1686	1650	1617	1576	1544	1503	1468	1433	1393	1356	
					BHP	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.53	0.55	
High	Black	High Stage Heating	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
			High Stage Heat Rise °F (°C)	57 (32)	58 (32)	59 (33)	61 (34)	62 (35)	64 (35)	65 (36)	66 (36)	67 (36)	68 (36)			
High	Black	High Stage Heating	CFM	1854	1837	1781	1784	1720	1698	1655	1625	1578	1532			
			BHP	0.56	0.57	0.60	0.59	0.62	0.63	0.64	0.66	0.67	0.67			
High	Black	High Stage Heating	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
			High Stage Heat Rise °F (°C)	52 (29)	52 (29)	54 (30)	54 (30)	56 (31)	56 (31)	58 (32)	59 (33)	61 (34)	63 (35)			
High	Black	High Stage Heating	CFM	1934	1900	1855	1815	1778	1737	1695	1656	1606	1528			
			BHP	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.70	0.68			

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.
"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions	External Static Pressure (in. WC)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
60090	35 – 65°F Low Stage, 35 – 65°F High Stage	Low ³	Blue	Low Stage Gas Heating	CFM	908	865	800	747	690	629	583	532	500	447
					BHP	0.12	0.13	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
					Low Stage Heat Rise °F (°C)	47 (26)	50 (28)	54 (30)	58 (32)	62 (35)	NA	NA	NA	NA	NA
					High Stage Heat Rise °F (°C)	NA									
		Med – Low ⁴	Pink	Alternate Low Stage Cooling Alternate High Stage Cooling	CFM	1415	1384	1340	1314	1270	1236	1192	1159	1116	1076
					BHP	0.32	0.34	0.35	0.36	0.37	0.39	0.39	0.41	0.42	0.44
					Low Stage Heat Rise °F (°C)	NA									
					High Stage Heat Rise °F (°C)	48 (26)	49 (27)	50 (28)	51 (29)	53 (29)	55 (30)	57 (31)	58 (32)	60 (34)	63 (35)
					CFM	1454	1405	1364	1316	1281	1234	1198	1147	1105	1056
					BHP	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.45
Med – High ²	Red	Low Stage Cooling Alternate High Stage Gas Heating	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
			High Stage Heat Rise °F (°C)	46 (26)	48 (27)	49 (27)	51 (28)	53 (29)	55 (30)	56 (31)	59 (33)	61 (34)			
			CFM	1818	1770	1731	1693	1657	1621	1579	1546	1505	1436		
			BHP	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67	0.66		
High	Black	High Stage Cooling Alternate High Stage Gas Heating	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
			High Stage Heat Rise °F (°C)	37 (21)	38 (21)	39 (22)	40 (22)	41 (23)	42 (23)	43 (24)	44 (24)	45 (25)			
		High Static, High Stage Cooling Only	CFM	2138	2084	2025	1967	1893	1829	1754	1678	1591	1475		
			BHP	0.98	0.95	0.93	0.90	0.86	0.84	0.80	0.76	0.74	0.68		

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.
"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions		External Static Pressure (in. WC)									
						0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
60115	30 - 60°F Low Stage, 30 - 60°F High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	1182	1137	1102	1053	1012	966	920	868	830	783
						BHP	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.30
		Med - Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	1454	1405	1364	1316	1281	1234	1198	1147	1105	1056
						BHP	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43
		Medium ²	Red	High Stage Cooling Alternate High Stage Gas Heating	CFM	1818	1770	1731	1693	1657	1621	1579	1546	1505	1436
						BHP	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67
		Med - High ⁴	Orange	High Stage Gas Heating Alternate High Stage Cooling	CFM	1881	1849	1818	1793	1763	1729	1679	1610	1523	1479
						BHP	0.67	0.69	0.70	0.71	0.72	0.73	0.73	0.71	0.68
		High	Black	High Static, High Stage Cooling Only	CFM	2138	2084	2025	1967	1893	1829	1754	1678	1591	1475
						BHP	0.98	0.95	0.93	0.90	0.86	0.84	0.80	0.76	0.74

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.
"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC SINGLE PHASE MODELS

Unit	Heating Rise Range	Motor Speed	Wire Color	Allowable Functions	External Static Pressure (in. WC)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
60130	35 – 65°F Low Stage, 35 – 65°F High Stage	Low ³	Blue	Low Stage Gas Heating Alternate Low Stage Cooling	CFM	1182	1137	1102	1053	1012	966	920	868	830	783
					BHP	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.30	0.31
		Med – Low ¹	Pink	Low Stage Cooling Alternate Low Stage Gas Heating	CFM	1454	1405	1364	1316	1281	1234	1198	1147	1105	1056
					BHP	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.45
		Medium ²	Red	High Stage Cooling Alternate High Stage Gas Heating	CFM	1818	1770	1731	1693	1657	1621	1579	1546	1505	1436
					BHP	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67	0.66
		Med – High ⁴	Orange	High Stage Gas Heating Alternate High Stage Cooling	CFM	1881	1849	1818	1793	1763	1729	1679	1610	1523	1479
					BHP	0.67	0.69	0.70	0.71	0.72	0.73	0.73	0.71	0.68	0.65
		High	Black	High Static, High Stage Cooling Only	CFM	2138	2084	2025	1967	1893	1829	1754	1678	1591	1475
					BHP	0.98	0.95	0.93	0.90	0.86	0.84	0.80	0.76	0.74	0.68

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular gas heating speed

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)															
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1						
24060	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ¹	Blue	CFM	777	692	583	465	318	---	---	---	---	---	---	---	---	---		
				BHP	0.09	0.10	0.10	0.11	0.12	---	---	---	---	---	---	---	---	---	---	
				Low Stage Heat Rise °F (°C)	37 (20)	41 (23)	49 (27)	NA												
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med-Low ³	Pink	CFM	877	779	698	598	519	410	---	---	---	---	---	---	---	---	---	
				BHP	0.12	0.12	0.13	0.14	0.15	0.15	---	---	---	---	---	---	---	---	---	
				Low Stage Heat Rise °F (°C)	21 (12)	24 (13)	27 (15)	31 (17)	36 (20)	NA										
				High Stage Heat Rise °F (°C)	33 (18)	37 (21)	42 (23)	49 (27)	NA											
		Medium ²	Red	CFM	904	841	769	705	628	522	372	---	---	---	---	---	---	---	---	
				BHP	0.16	0.17	0.17	0.18	0.19	0.19	0.20	---	---	---	---	---	---	---	---	
				Low Stage Heat Rise °F (°C)	32 (18)	34 (19)	37 (21)	40 (22)	45 (25)	55 (30)	NA									
				High Stage Heat Rise °F (°C)	49 (27)	53 (29)	NA													
		Med-High ⁴	Orange	CFM	1229	1171	1105	1049	980	913	838	775	716	668	619	570	521	472	423	
				BHP	0.28	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	
				Low Stage Heat Rise °F (°C)	NA	NA	26 (14)	27 (15)	29 (16)	31 (17)	34 (19)	37 (20)	42 (23)	49 (27)	53 (29)	58 (31)	63 (34)	68 (36)	73 (38)	78 (41)
				High Stage Heat Rise °F (°C)	36 (20)	38 (21)	40 (22)	42 (24)	45 (25)	49 (27)	53 (29)	58 (31)	63 (34)	68 (36)	73 (38)	78 (41)	83 (44)	88 (46)	93 (49)	98 (51)
High	Black	CFM	1291	1206	1142	1081	1017	951	888	823	753	688	623	558	493	428	363			
		BHP	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37			
		Low Stage Heat Rise °F (°C)	NA	NA	25 (14)	26 (15)	28 (16)	30 (17)	32 (18)	35 (19)	38 (21)	42 (23)	46 (24)	50 (26)	54 (28)	58 (30)	62 (32)	66 (34)		
		High Stage Heat Rise °F (°C)	34 (19)	37 (20)	39 (22)	41 (23)	44 (24)	47 (26)	50 (28)	54 (30)	58 (32)	62 (34)	66 (36)	70 (38)	74 (40)	78 (42)	82 (44)	86 (46)		

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)												
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
30060	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	CFM	777	692	583	465	318	---	---	---	---	---	---	---	
				BHP	0.09	0.10	0.10	0.11	0.12	---	---	---	---	---	---	---	
				Low Stage Heat Rise °F (°C)	37 (21)	41 (23)	49 (27)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BHP	831	765	670	586	466	299	---	---	---	---	---	---	---		
		Low Stage Heat Rise °F (°C)	34 (19)	37 (21)	43 (24)	49 (27)	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		High Stage Heat Rise °F (°C)	54 (30)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		CFM	1139	1069	1012	937	870	786	724	626	512	381	0.28				
	BHP	0.22	0.23	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.28	0.28					
	Low Stage Heat Rise °F (°C)	25 (14)	27 (15)	28 (16)	30 (17)	33 (18)	36 (20)	39 (22)	46 (26)	NA	NA	NA					
	High Stage Heat Rise °F (°C)	39 (22)	42 (23)	44 (24)	47 (26)	51 (28)	NA	NA	NA	NA	NA	NA					
	CFM	1229	1171	1105	1049	980	913	838	775	679	516	0.33					
	BHP	0.28	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35					
	Low Stage Heat Rise °F (°C)	NA	NA	26 (14)	27 (15)	29 (16)	31 (17)	34 (19)	37 (21)	42 (23)	55 (31)	0.33					
	High Stage Heat Rise °F (°C)	36 (20)	38 (21)	40 (22)	42 (23)	45 (25)	49 (27)	53 (29)	NA	NA	NA	0.33					
	CFM	1531	1460	1382	1301	1209	1114	1003	890	764	629	0.37					
BHP	0.53	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.37	0.35	0.35						
Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	26 (14)	28 (16)	32 (18)	37 (21)	45 (25)	0.37						
High Stage Heat Rise °F (°C)	29 (16)	30 (17)	32 (18)	34 (19)	37 (21)	40 (22)	44 (24)	50 (28)	NA	NA	0.37						

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (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°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	CFM	694	624	533	460	383	328	---	---	---	---	---	---		
				BHP	0.05	0.05	0.06	0.07	0.07	0.08	---	---	---	---	---	---		
				Low Stage Heat Rise °F (°C)	41 (23)	46 (25)	54 (30)	NA	NA	NA	NA	NA						
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				CFM	934	864	810	745	698	649	571	525	486	428				
				BHP	0.10	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.17				
		Med-Low ¹	Pink	Low Stage Heat Rise °F (°C)	31 (17)	33 (18)	35 (20)	38 (21)	41 (23)	44 (24)	54 (30)	NA	NA	NA	NA	NA		
				High Stage Heat Rise °F (°C)	48 (26)	52 (29)	55 (31)	NA	NA	NA								
				CFM	1213	1169	1110	1065	1016	964	923	878	820	777				
		Medium ⁴	Red	BHP	0.16	0.17	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25				
				Low Stage Heat Rise °F (°C)	NA	NA	26 (14)	27 (15)	28 (16)	30 (16)	31 (17)	33 (18)	35 (19)	37 (20)				
				High Stage Heat Rise °F (°C)	37 (20)	38 (21)	40 (22)	42 (23)	44 (24)	46 (26)	48 (27)	51 (28)	54 (30)	NA				
CFM	1251			1198	1149	1104	1066	1017	970	932	892	839						
BHP	0.19			0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29						
Low Stage Heat Rise °F (°C)	NA			NA	25 (14)	26 (14)	27 (15)	28 (16)	29 (16)	31 (17)	32 (18)	34 (19)						
Med-High ²	Orange	High Stage Heat Rise °F (°C)	36 (20)	37 (21)	39 (22)	40 (22)	42 (23)	44 (24)	46 (25)	48 (27)	50 (28)	53 (29)						
		CFM	1466	1423	1384	1343	1308	1263	1219	1183	1145	1106						
		BHP	0.30	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.40	0.41						
High	Black	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	26 (14)						
		High Stage Heat Rise °F (°C)	30 (17)	31 (17)	32 (18)	33 (18)	34 (19)	35 (20)	37 (20)	38 (21)	39 (22)	40 (22)						
		CFM	1466	1423	1384	1343	1308	1263	1219	1183	1145	1106						

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
36090	35 - 65°F Low Stage, 35 - 65°F High Stage	Low ³	Blue	CFM	1097	971	823	747	669	636	558	513	456	412	
				BHP	0.12	0.11	0.10	0.11	0.12	0.13	0.14	0.15	0.16		
				Low Stage Heat Rise °F (°C)	39 (22)	44 (25)	52 (29)	58 (32)	64 (36)	NA	NA	NA	NA		
				High Stage Heat Rise °F (°C)	61 (34)	NA	NA								
		Med-Low ¹	Pink	CFM	934	864	810	745	698	649	571	525	486	428	
				BHP	0.10	0.10	0.11	0.12	0.13	0.14	0.15	0.16			
				Low Stage Heat Rise °F (°C)	46 (26)	50 (28)	53 (29)	58 (32)	62 (34)	NA	NA	NA			
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA			
		Medium ²	Red	CFM	1251	1198	1149	1104	1066	1017	970	932	892	839	
				BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27			
				Low Stage Heat Rise °F (°C)	NA	36 (20)	37 (21)	39 (22)	40 (22)	42 (23)	44 (25)	46 (26)			
				High Stage Heat Rise °F (°C)	54 (30)	56 (31)	59 (33)	61 (34)	63 (35)	NA	NA	NA			
		Med-High ⁴	Orange	CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130	1094	
				BHP	0.29	0.30	0.31	0.32	0.32	0.35	0.36	0.37			
Low Stage Heat Rise °F (°C)	NA			NA	NA	NA	NA	NA	35 (20)	37 (20)					
High Stage Heat Rise °F (°C)	46 (26)			48 (26)	49 (27)	51 (28)	52 (29)	54 (30)	56 (31)	58 (32)					
High	Black	CFM	1466	1423	1384	1343	1308	1263	1219	1183	1145	1106			
		BHP	0.30	0.31	0.33	0.34	0.35	0.36	0.37	0.38					
		Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	35 (20)	36 (20)					
		High Stage Heat Rise °F (°C)	46 (26)	47 (26)	49 (27)	50 (28)	52 (29)	53 (30)	55 (31)	57 (32)					

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)													
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1				
42060	25 - 55°F Low Stage, 25 - 55°F High Stage	Low ³	Blue	CFM	694	624	533	460	383	328	---	---	---	---	---	---		
				BHP	0.05	0.05	0.06	0.07	0.07	0.08	---	---	---	---	---	---		
				Low Stage Heat Rise °F (°C)	41 (23)	46 (25)	54 (30)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		CFM	1076	1026	972	918	872	827	771	714	666	611						
		BHP	0.13	0.14	0.15	0.15	0.17	0.18	0.18	0.20	0.21	0.22						
		Low Stage Heat Rise °F (°C)	27 (15)	28 (15)	29 (16)	31 (17)	33 (18)	35 (19)	37 (21)	40 (22)	43 (24)	47 (26)						
		High Stage Heat Rise °F (°C)	41 (23)	43 (24)	46 (25)	48 (27)	51 (28)	54 (30)	NA	NA	NA	NA						
		CFM	1213	1169	1110	1065	1016	964	923	878	820	777						
		BHP	0.16	0.17	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25						
		Low Stage Heat Rise °F (°C)	NA	NA	26 (14)	27 (15)	28 (16)	30 (16)	31 (17)	33 (18)	35 (19)	37 (20)						
		High Stage Heat Rise °F (°C)	37 (20)	38 (21)	40 (22)	42 (23)	44 (24)	46 (26)	48 (27)	51 (28)	54 (30)	NA						
		CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130	1094						
		BHP	0.29	0.30	0.31	0.32	0.32	0.35	0.36	0.37	0.38	0.39						
		Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
		High Stage Heat Rise °F (°C)	31 (17)	31 (17)	32 (18)	34 (18)	35 (19)	36 (20)	37 (20)	38 (21)	39 (22)	41 (23)						
CFM	1633	1590	1552	1518	1483	1444	1406	1372	1340	1303								
BHP	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.53								
Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
High Stage Heat Rise °F (°C)	27 (15)	28 (16)	29 (16)	29 (16)	30 (17)	31 (17)	32 (18)	32 (18)	33 (18)	34 (19)								

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (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°F Low Stage, 35 - 65°F High Stage	Low ³	Blue	CFM	1097	971	823	747	669	636	558	513	456	412	
				BHP	0.12	0.11	0.10	0.11	0.12	0.13	0.14	0.15	0.16		
				Low Stage Heat Rise °F (°C)	39 (22)	44 (25)	52 (29)	58 (32)	64 (36)	NA	NA	NA	NA		
				High Stage Heat Rise °F (°C)	61 (34)	NA	NA								
		CFM	1076	1026	972	918	872	827	771	714	666	611			
		BHP	0.13	0.14	0.15	0.15	0.17	0.18	0.18	0.20	0.21	0.22			
		Low Stage Heat Rise °F (°C)	40 (22)	42 (23)	44 (25)	47 (26)	49 (27)	52 (29)	56 (31)	60 (33)	64 (36)	NA			
		High Stage Heat Rise °F (°C)	63 (35)	NA	NA	NA	NA	NA	NA	NA	NA	NA			
		CFM	1251	1198	1149	1104	1066	1017	970	932	892	839			
		BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29			
		Low Stage Heat Rise °F (°C)	NA	36 (20)	37 (21)	39 (22)	40 (22)	42 (23)	44 (25)	46 (26)	48 (27)	51 (28)			
		High Stage Heat Rise °F (°C)	54 (30)	56 (31)	59 (33)	61 (34)	63 (35)	NA	NA	NA	NA	NA			
		CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130	1094			
		BHP	0.29	0.30	0.31	0.32	248. 59	0.35	0.36	0.37	0.38	0.39			
		Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	35 (20)	37 (20)	38 (21)	39 (22)			
		High Stage Heat Rise °F (°C)	46 (26)	48 (26)	49 (27)	51 (28)	52 (29)	54 (30)	56 (31)	58 (32)	60 (33)	62 (34)			
CFM	1633	1590	1552	1518	1483	1444	1406	1372	1340	1303					
BHP	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.53					
Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
High Stage Heat Rise °F (°C)	41 (23)	42 (24)	43 (24)	44 (25)	45 (25)	47 (26)	48 (27)	49 (27)	50 (28)	52 (29)					

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
48090	35 - 65°F Low Stage, 35 - 65°F High Stage	Low ³	Blue	CFM	1067	904	703	587	501	449	380	340	---	---	---
				BHP	0.12	0.10	0.09	0.09	0.09	0.10	0.11	0.12	---	---	
				Low Stage Heat Rise °F (°C)	40 (22)	48 (26)	61 (34)	NA	NA						
				High Stage Heat Rise °F (°C)	63 (35)	NA	NA								
				CFM	1271	1229	1177	1121	1066	1027	974	942	887	839	
				BHP	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
		Med-Low ¹	Pink	Low Stage Heat Rise °F (°C)	NA	35 (19)	36 (20)	38 (21)	40 (22)	42 (23)	44 (25)	46 (27)	48 (28)		
				High Stage Heat Rise °F (°C)	53 (29)	55 (30)	57 (32)	60 (33)	63 (35)	NA	NA	NA	NA		
				CFM	1340	1299	1240	1191	1139	1091	1050	1001	952	895	
				BHP	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31	0.32	
		Medium ⁴	Red	Low Stage Heat Rise °F (°C)	NA	NA	35 (19)	36 (20)	38 (21)	39 (22)	41 (23)	43 (24)	45 (25)	48 (27)	
				High Stage Heat Rise °F (°C)	50 (28)	52 (29)	54 (30)	57 (31)	59 (33)	62 (34)	64 (36)	NA	NA	NA	
				CFM	1686	1650	1617	1576	1544	1503	1468	1433	1393	1356	
				BHP	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.53	0.55	
		Med-High ²	Orange	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
				High Stage Heat Rise °F (°C)	40 (22)	41 (23)	42 (23)	43 (24)	44 (24)	45 (25)	46 (26)	47 (26)	48 (27)	50 (28)	
CFM	1854			1837	1781	1784	1720	1698	1655	1625	1578	1532			
BHP	0.56			0.57	0.60	0.59	0.62	0.63	0.64	0.66	0.67	0.67			
High	Black	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
		High Stage Heat Rise °F (°C)	36 (20)	37 (20)	38 (21)	38 (21)	39 (22)	40 (22)	41 (23)	41 (23)	43 (24)	44 (24)			

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color	External Static Pressure (IN. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
48115	Low Stage Heat Rise °F High Stage Heat Rise °F	Low ¹	Blue	CFM	1271	1229	1177	1121	1066	1027	974	942	887	839
				BHP	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29
				Low Stage Heat Rise °F	44	45	47	50	52	54	57	59	NA	NA
				High Stage Heat Rise °F	(24)	(25)	(26)	(28)	(29)	(30)	(32)	(33)	NA	NA
	Low Stage Heat Rise °F High Stage Heat Rise °F	Med-Low ³	Pink	CFM	1340	1299	1240	1191	1139	1091	1050	1001	952	895
				BHP	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31	0.32
				Low Stage Heat Rise °F	42	43	45	47	49	51	53	56	59	NA
				High Stage Heat Rise °F	(23)	(24)	(25)	(26)	(27)	(28)	(30)	(31)	(33)	NA
	Low Stage Heat Rise °F High Stage Heat Rise °F	Medium ²	Red	CFM	1686	1650	1617	1576	1544	1503	1468	1433	1393	1356
				BHP	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.53	0.55
				Low Stage Heat Rise °F	33	34	35	35	36	37	38	39	40	41
				High Stage Heat Rise °F	(18)	(19)	(19)	(20)	(20)	(21)	(21)	(22)	(22)	(23)
Low Stage Heat Rise °F High Stage Heat Rise °F	Med-High	Orange	CFM	1854	1837	1781	1784	1720	1698	1655	1625	1578	1532	
			BHP	0.56	0.57	0.60	0.59	0.62	0.63	0.64	0.66	0.67	0.67	
			Low Stage Heat Rise °F	30	30	31	31	32	33	34	34	35	36	
			High Stage Heat Rise °F	(17)	(17)	(17)	(17)	(18)	(18)	(19)	(19)	(20)	(20)	
Low Stage Heat Rise °F High Stage Heat Rise °F	High ⁴	Black	CFM	1934	1900	1855	1815	1778	1737	1695	1656	1606	1528	
			BHP	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.70	0.68	
			Low Stage Heat Rise °F	NA	NA	30	31	31	32	33	34	35	37	
			High Stage Heat Rise °F	(17)	(17)	(17)	(17)	(17)	(18)	(18)	(19)	(19)	(20)	
High Stage Heat Rise °F			CFM	45	46	47	48	49	50	51	52	54	57	
			High Stage Heat Rise °F	(25)	(25)	(26)	(27)	(27)	(28)	(28)	(29)	(29)	(30)	

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
48130	Low Stage, High Stage	Low ¹	Blue	CFM	1271	1229	1177	1121	1066	1027	974	942	887	839	
				BHP	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
				Low Stage Heat Rise °F (°C)	49 (27)	51 (28)	53 (30)	56 (31)	59 (33)	61 (34)	64 (36)	NA	NA	NA	
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Med-Low ³	Pink	Med-Low ³	CFM	1340	1299	1240	1191	1139	1091	1050	1001	952	895	
				BHP	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.31	0.32	
				Low Stage Heat Rise °F (°C)	47 (26)	48 (27)	51 (28)	53 (29)	55 (31)	57 (32)	60 (33)	63 (35)	NA	NA	
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Medium ²	Red	Medium ²	CFM	1686	1650	1617	1576	1544	1503	1468	1433	1393	1356	
				BHP	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.53	0.55	
				Low Stage Heat Rise °F (°C)	37 (21)	38 (21)	39 (22)	40 (22)	41 (23)	42 (23)	43 (24)	44 (24)	45 (25)	46 (26)	
				High Stage Heat Rise °F (°C)	57 (32)	58 (32)	59 (33)	61 (34)	62 (35)	64 (35)	65(36)	NA	NA	NA	
Med-High	Orange	Med-High	CFM	1854	1837	1781	1784	1720	1698	1655	1625	1578	1532		
			BHP	0.56	0.57	0.60	0.59	0.62	0.63	0.64	0.66	0.67	0.67		
			Low Stage Heat Rise °F (°C)	NA	NA	35 (20)	35 (20)	36 (20)	37 (20)	38 (21)	39 (21)	40 (22)	41 (23)		
			High Stage Heat Rise °F (°C)	52 (29)	52 (29)	54 (30)	54 (30)	56 (31)	56 (31)	58 (32)	59 (33)	61 (34)	63 (35)		
High ⁴	Black	High ⁴	CFM	1934	1900	1855	1815	1778	1737	1695	1656	1606	1528		
			BHP	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.70	0.68		
			Low Stage Heat Rise °F (°C)	NA	NA	NA	35 (19)	35 (20)	36 (20)	37 (21)	38 (21)	39 (22)	41 (23)		
			High Stage Heat Rise °F (°C)	50 (28)	50 (28)	52 (29)	53 (29)	54 (30)	55 (31)	57 (31)	58 (32)	60 (33)	63 (35)		

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (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°F Low Stage, 35 - 65°F High Stage	Low ³	Blue	CFM	908	865	800	747	690	629	583	532	500	447	
				BHP	0.12	0.13	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
				Low Stage Heat Rise °F (°C)	47 (26)	50 (28)	54 (30)	58 (32)	62 (35)	NA	NA	NA	NA	NA	NA
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				CFM	1415	1384	1340	1314	1270	1236	1192	1159	1116	1076	
		BHP	0.32	0.34	0.35	0.36	0.37	0.39	0.39	0.41	0.42	0.44			
		Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	35 (19)	36 (20)	37 (21)	38 (21)	40 (22)			
		High Stage Heat Rise °F (°C)	48 (26)	49 (27)	50 (28)	51 (29)	53 (29)	55 (30)	57 (31)	58 (32)	60 (34)	63 (35)			
		CFM	1454	1405	1364	1316	1281	1234	1198	1147	1105	1056			
		BHP	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.45			
		Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	35 (19)	36 (20)	37 (21)	39 (22)	41 (23)			
		High Stage Heat Rise °F (°C)	46 (26)	48 (27)	49 (27)	51 (28)	53 (29)	55 (30)	56 (31)	59 (33)	61 (34)	64 (35)			
		CFM	1818	1770	1731	1693	1657	1621	1579	1546	1505	1436			
		BHP	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67	0.66			
		Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
High Stage Heat Rise °F (°C)	37 (21)	38 (21)	39 (22)	40 (22)	41 (23)	42 (23)	43 (24)	44 (24)	45 (25)	47 (26)					
CFM	2138	2084	2025	1967	1893	1829	1754	1678	1591	1475					
BHP	0.98	0.95	0.93	0.90	0.86	0.84	0.80	0.76	0.74	0.68					
Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
High Stage Heat Rise °F (°C)	NA	NA	NA	NA	36 (20)	37 (20)	38 (21)	40 (22)	42 (24)	46 (25)					

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
60115	30 - 60°F Low Stage, 30 - 60°F High Stage	Low ³	Blue	CFM	1182	1137	1102	1053	1012	966	920	868	830	783	
				BHP	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.30	0.31	
				Low Stage Heat Rise °F (°C)	47 (26)	49 (27)	51 (28)	53 (29)	55 (31)	58 (32)	NA	NA	NA	NA	
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
				CFM	1454	1405	1364	1316	1281	1234	1198	1147	1105	1056	
				BHP	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.45	
		Med-Low ¹	Pink	Low Stage Heat Rise °F (°C)	38 (21)	40 (22)	41 (23)	42 (24)	44 (24)	45 (25)	47 (26)	49 (27)	51 (28)	NA	
				High Stage Heat Rise °F (°C)	60 (33)	NA									
				CFM	1818	1770	1731	1693	1657	1621	1579	1546	1505	1436	
				BHP	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67	0.66	
				Low Stage Heat Rise °F (°C)	31 (17)	32 (18)	32 (18)	33 (18)	34 (19)	34 (19)	35 (20)	36 (20)	37 (21)	39 (22)	
				High Stage Heat Rise °F (°C)	48 (27)	49 (27)	50 (28)	51 (29)	52 (29)	54 (30)	55 (31)	56 (31)	58 (32)	NA	
Med-High ⁴	Orange	CFM	1881	1849	1818	1793	1763	1729	1679	1610	1523	1479			
		BHP	0.67	0.69	0.70	0.71	0.72	0.73	0.73	0.71	0.68	0.65			
		Low Stage Heat Rise °F (°C)	30 (16)	30 (17)	31 (17)	31 (17)	32 (18)	32 (18)	33 (18)	35 (19)	37 (20)	38 (21)			
		High Stage Heat Rise °F (°C)	46 (26)	47 (26)	48 (27)	48 (27)	49 (27)	50 (28)	52 (29)	54 (30)	57 (32)	59 (33)			
		CFM	2138	2084	2025	1967	1893	1829	1754	1678	1591	1475			
		BHP	0.98	0.95	0.93	0.90	0.86	0.84	0.80	0.76	0.74	0.68			
High	Black	Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	31 (17)	32 (18)	33 (18)	35 (19)	38 (21)			
		High Stage Heat Rise °F (°C)	41 (23)	42 (23)	43 (24)	44 (25)	46 (26)	48 (26)	50 (28)	52 (29)	55 (30)				

DRY COIL AIR DELIVERY* - HORIZONTAL AND DOWNFLOW DISCHARGE - 208/230 VAC 3-PHASE MODELS (CONT)

Unit	Heating Rise Range	Motor Speed	Wire Color		External Static Pressure (IN. W.C.)										
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
60130	Low Stage Heat Rise °F High Stage Heat Rise °F	Low ³	Blue	CFM	1182	1137	1102	1053	1012	966	920	868	830	783	
				BHP	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.30	0.31	
				Low Stage Heat Rise °F (°C)	53 (29)	55 (31)	57 (32)	59 (32)	62 (34)	65 (36)	NA	NA	NA	NA	
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Med-Low ¹	Pink	Med-Low ¹	CFM	1454	1405	1364	1316	1281	1234	1198	1147	1105	1056	
				BHP	0.34	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.45	
				Low Stage Heat Rise °F (°C)	43 (24)	45 (25)	46 (26)	48 (26)	49 (27)	51 (28)	52 (29)	55 (30)	57 (31)	59 (33)	
				High Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Medium ²	Red	Medium ²	CFM	1818	1770	1731	1693	1657	1621	1579	1546	1505	1436	
				BHP	0.56	0.57	0.59	0.60	0.62	0.63	0.64	0.66	0.67	0.66	
				Low Stage Heat Rise °F (°C)	NA	35 (20)	36 (20)	37 (21)	38 (21)	39 (21)	40 (22)	41 (22)	42 (23)	44 (24)	
				High Stage Heat Rise °F (°C)	53 (29)	54 (30)	55 (31)	57 (31)	58 (32)	59 (33)	61 (34)	62 (34)	64 (35)	NA	
	Med-High ⁴	Orange	Med-High ⁴	CFM	1881	1849	1818	1793	1763	1729	1679	1610	1523	1479	
				BHP	0.67	0.69	0.70	0.71	0.72	0.73	0.73	0.71	0.68	0.65	
				Low Stage Heat Rise °F (°C)	NA	NA	NA	35 (19)	36 (20)	36 (20)	37 (21)	39 (22)	41 (23)	42 (24)	
				High Stage Heat Rise °F (°C)	51 (28)	52 (29)	53 (29)	53 (30)	54 (30)	55 (31)	57 (32)	60 (33)	63 (35)	65 (36)	
High	Black	High	CFM	2138	2084	2025	1967	1893	1829	1754	1678	1591	1475		
			BHP	0.98	0.95	0.93	0.90	0.86	0.84	0.80	0.76	0.74	0.68		
			Low Stage Heat Rise °F (°C)	NA	NA	NA	NA	NA	NA	36 (20)	37 (21)	39 (22)	42 (24)		
			High Stage Heat Rise °F (°C)	45 (25)	46 (26)	47 (26)	49 (27)	51 (28)	52 (29)	55 (30)	57 (32)	60 (33)	65 (36)		

Notes:

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

1 Factory-shipped low stage cooling speed

2 Factory-shipped high stage cooling speed

3 Factory-shipped low stage gas heating speed

4 Factory-shipped high stage gas heating speed

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

"NA" = Not allowed for particular heating speed

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	0.06	0.07	0.01	0.08	0.09	0.10	0.12	0.13

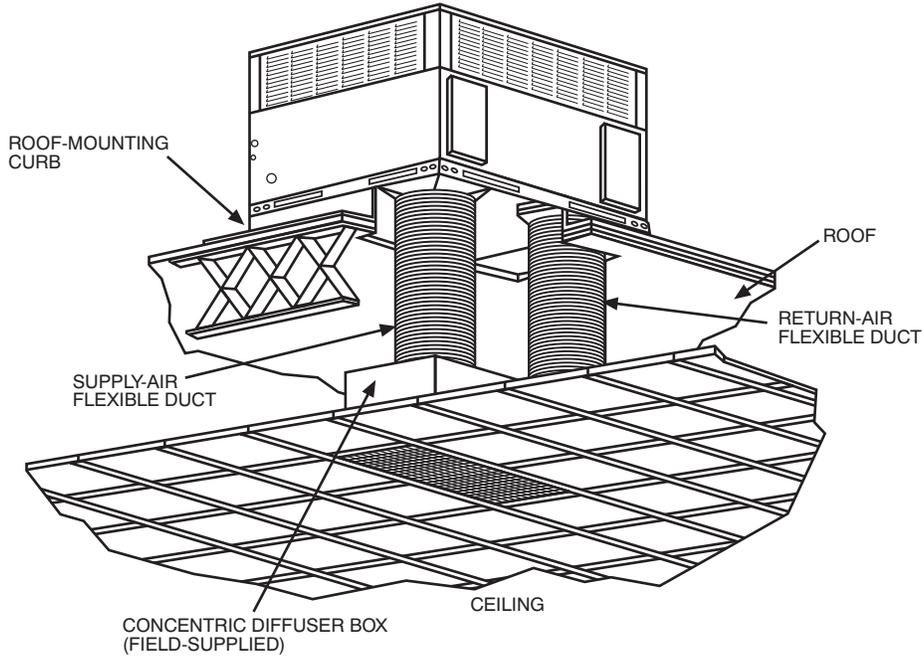
ECONOMIZER WITH 1-IN. FILTER PRESSURE DROP (IN. W.C.)

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,	-	-	0.09	0.14	0.16	0.18	0.25	0.28	0.30	-	-	-	-	-	-	-	-
	2.5																	
1200-1800 CFM 16x24x1+14x24x1 (406x610x25+356x610x25)	3.0	-	-	-	-	-	-	0.10	0.11	0.12	0.13	0.14	0.16	0.16	-	-	-	-
	3.5																	
1500-2200 CFM 16x24x1+18x24x1 (406x610x25+457x610x25)	4.0	-	-	-	-	-	-	-	-	-	0.15	0.17	0.18	0.20	0.21	0.22	0.23	0.23
	5.0																	

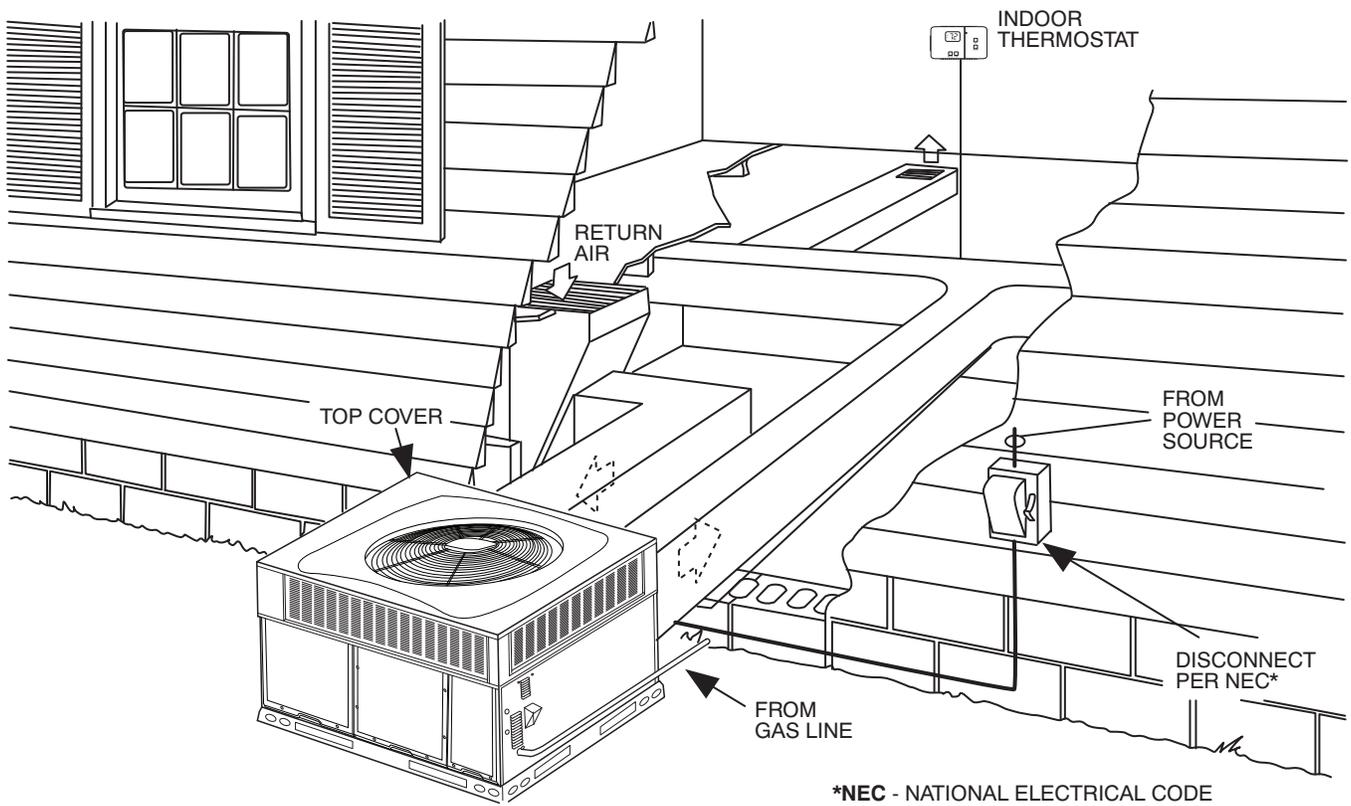
FILTER PRESSURE DROP TABLE (IN. W.C.)

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,	0.03	0.05	0.06	0.08	0.10	0.11	0.13	0.14	0.16	-	-	-	-	-	-	-	-
	2.5																	
1200-1800 CFM 16x24x1+14x24x1 (406x610x25+356x610x25)	3.0	-	-	-	-	-	-	0.07	0.08	0.09	0.09	0.10	0.11	0.12	-	-	-	-
	3.5																	
1500-2200 CFM 16x24x1+18x24x1 (406x610x25+457x610x25)	4.0	-	-	-	-	-	-	-	-	-	0.04	0.06	0.08	0.10	0.11	0.13	0.14	0.15
	5.0																	

TYPICAL PIPING AND WIRING



A09233



*NEC - NATIONAL ELECTRICAL CODE

A09234

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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.

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

UNIT	NOMINAL	VOLTAGE RANGE		COMPRESSOR		OFM	IFM	IDM	POWER SUPPLY	
		MIN	MAX	RLA	LRA	FLA	FLA	FLA	MCA	MOCp
2404030 2406030	208/230-1-60	197	253	11.7	58.3	0.6	4.1	.27	19.3	30
3004030 3006030	208/230-1-60	197	253	13.4	73.0	0.9	4.1	.27	21.8	30
3004050 3006050	208/230-3-60	197	253	9.0	58.0	0.9	4.1	.21	16.3	20
3606030 3609030	208/230-1-60	197	253	15.3	83.0	1.2	6.0	.27	26.3	40
3606050 3609050	208/230-3-60	197	253	11.6	73.0	1.2	6.0	.21	21.7	30
4206030 4209030	208/230-1-60	197	253	20.4	96.0	1.2	6.0	1.5	29.6	45
4206050 4209050	208/230-3-60	197	253	14.2	88.0	1.2	6.0	.21	25.0	35
4809030	208/230-1-60	197	253	21.2	104.0	1.2	7.6	.27	35.3	50
4811530										
4813030										
4809050	208/230-3-60	197	253	14.0	83.1	1.2	7.6	.21	26.3	40
4811550								.50		
4813050								.50		
6009030	208/230-1-60	197	253	28.8	152.9	1.2	7.6	.27	44.8	60
6011530										
6013030										
6009050	208/230-3-60	197	253	16.2	110.0	1.2	7.6	.21	29.1	40
6011550								.50		
6013050								.50		

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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

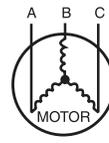
NOTES:

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%.

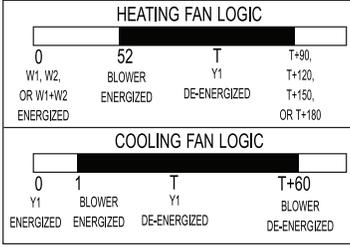
IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

CONNECTION WIRING SCHEMATIC 208/230-1-60

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

SCHEMATIC 208/230-1-60

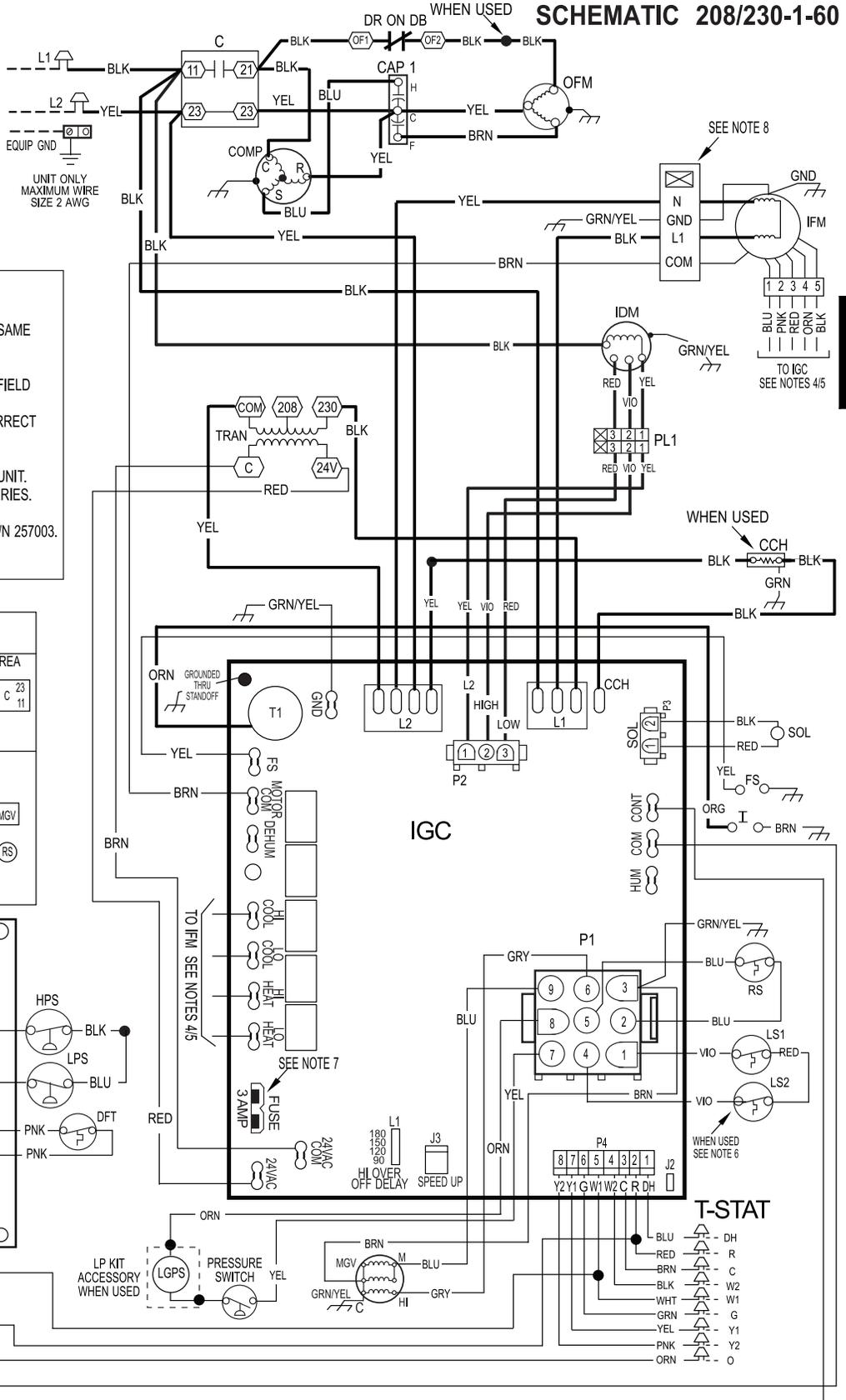
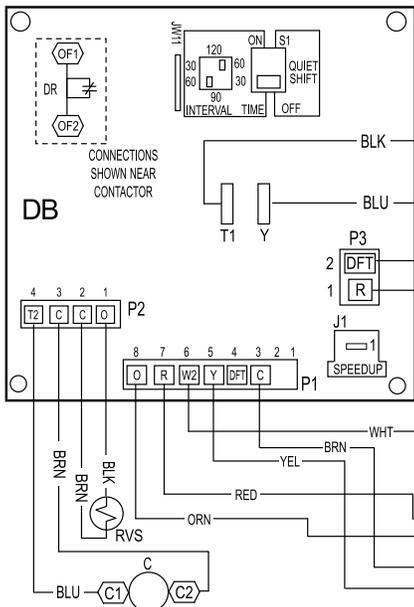
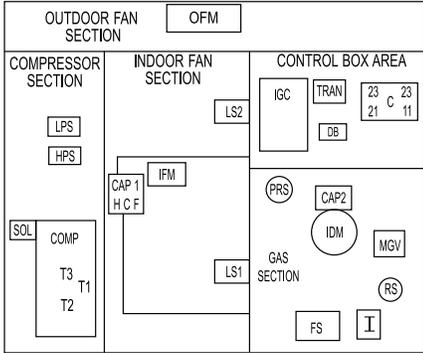


NOTE: IF Y2 DE-ENERGIZED REMOVES CALL FOR COOLING, Ø SECOND OFF DELAY

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 257003.
- DO NOT DISCONNECT PLUG UNDER LOAD.
- N.E.C. CLASS 2, 24V.

1Ø UNIT COMPONENT ARRANGEMENT

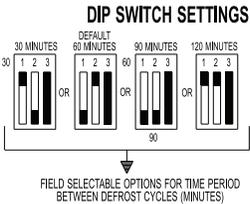
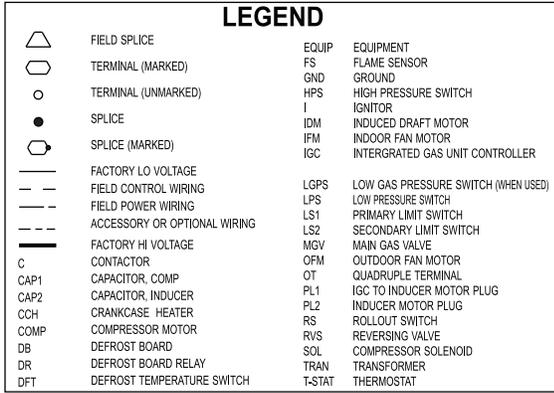


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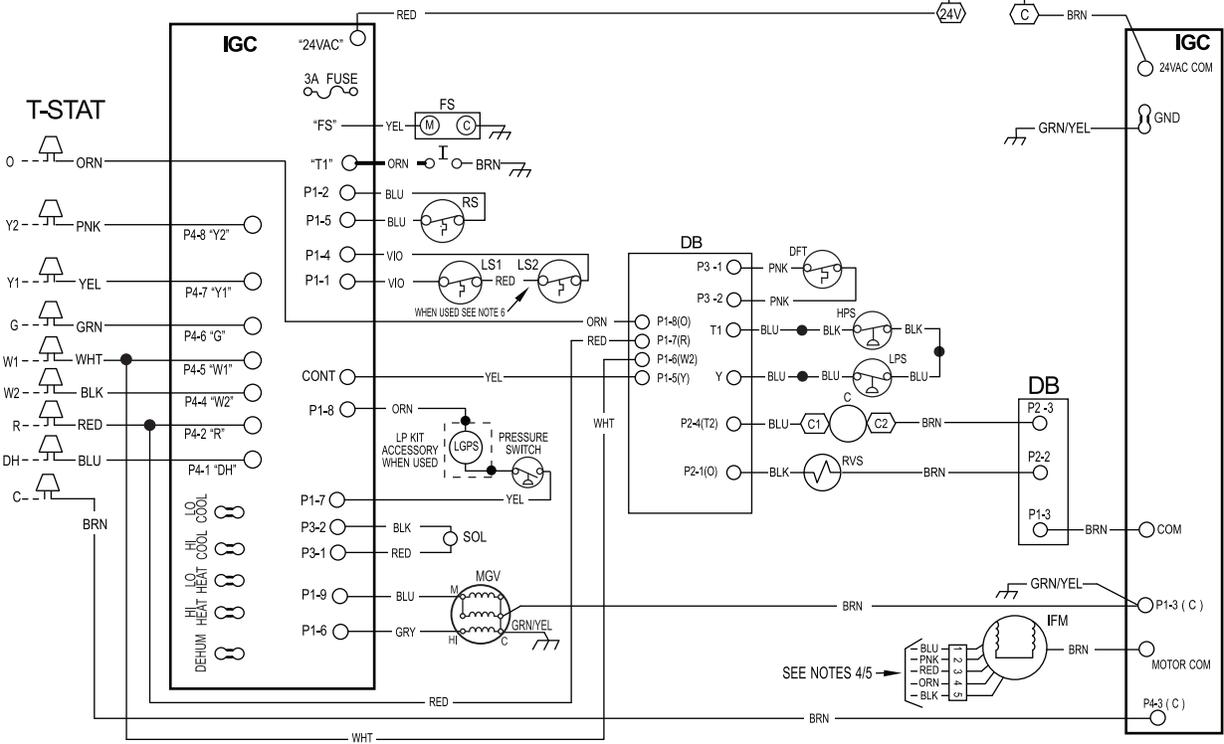
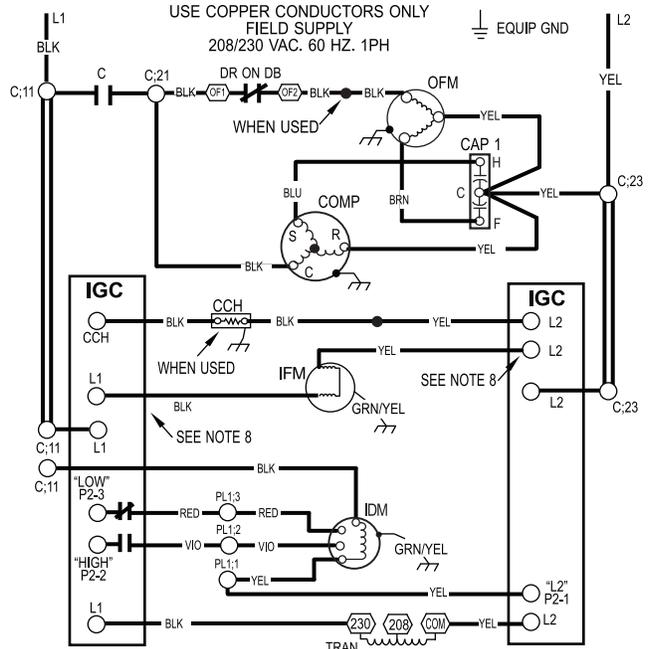
LADDER WIRING SCHEMATIC 208/230-1-60

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING



- SPEED UP** JUMPERED TEST PINS (USE METAL OBJECT) FIELD SPEED-UP CYCLE
- MOMENTARILY SHORT PINS AND RELEASE TO BYPASS COMPRESSOR OFF DELAY.
 - SHORT FOR 5+ SEC. AND RELEASE FOR FORCED DEFOST.
 - PERMANENT SHORT WILL BE IGNORED.
- DEFOST WILL TERMINATE IN 30 SEC. IF DFT OPEN.
DEFOST WILL TERMINATE NORMALLY IF DFT IS CLOSED.
- THE COMPRESSOR WILL SHUT OFF FOR 30 SEC. ON DEFOST INITIATION AND TERMINATION IN THE 'QUIET SHIF' ON POSITION.



48VR500037 REV. A



48VR500037 REV. A

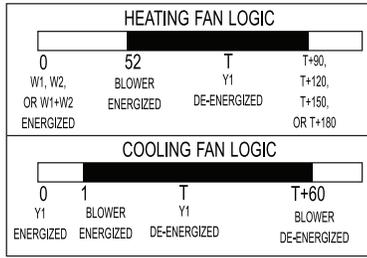
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CONNECTION WIRING SCHEMATIC GAS INPUTS 40, 60, 90 KBTU/HR 208/230-3-60

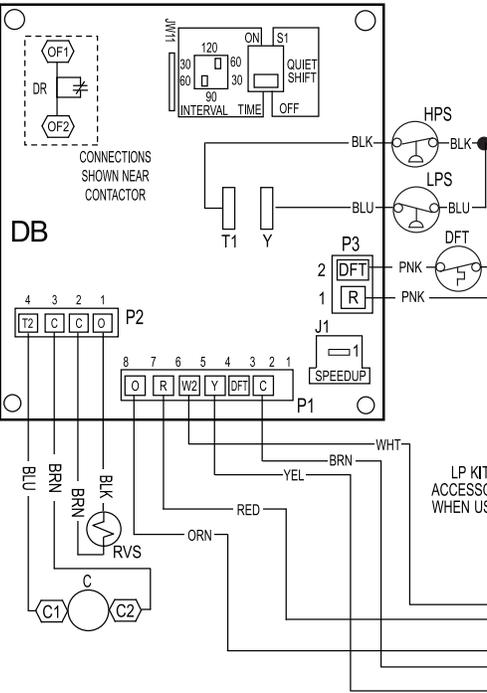
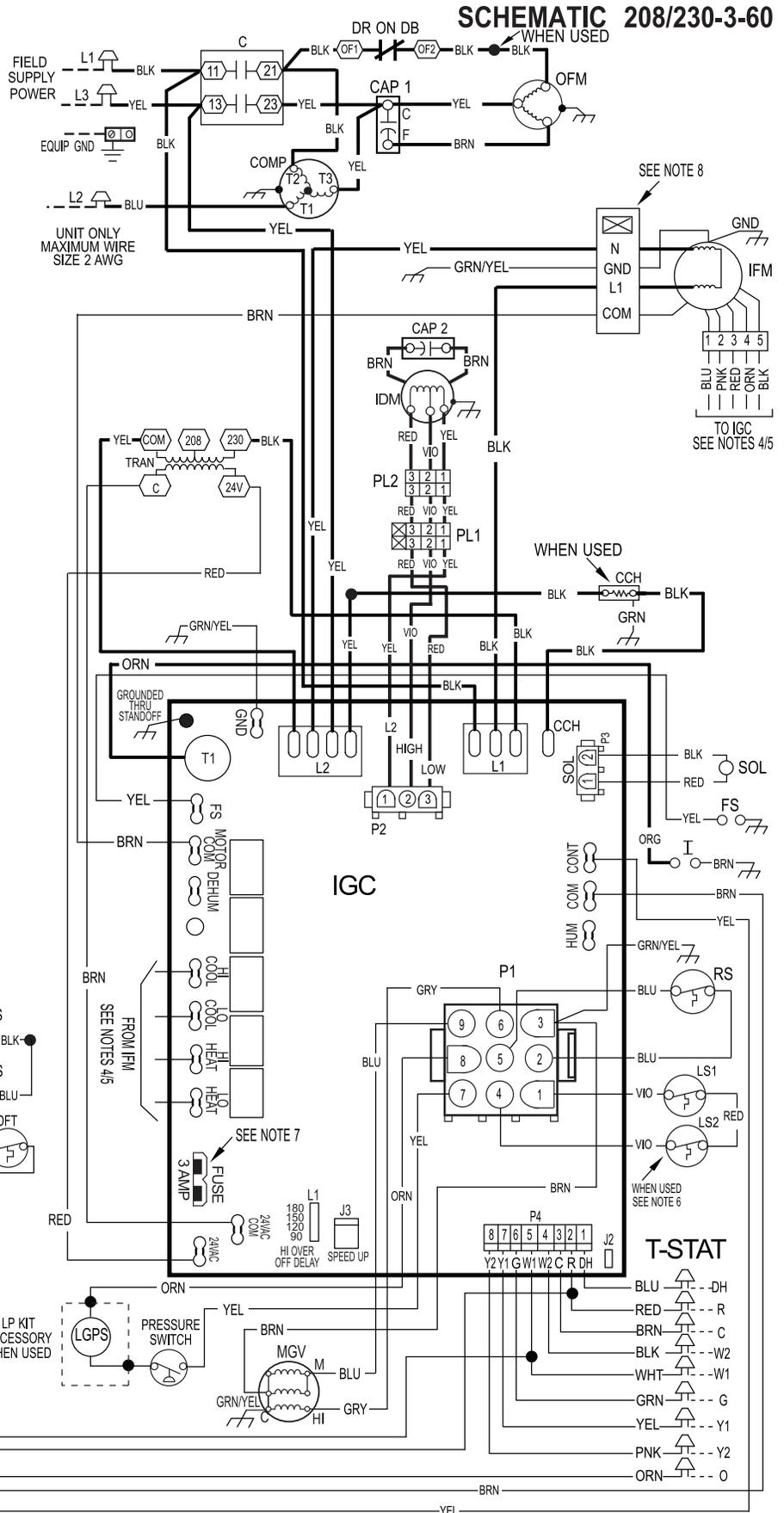
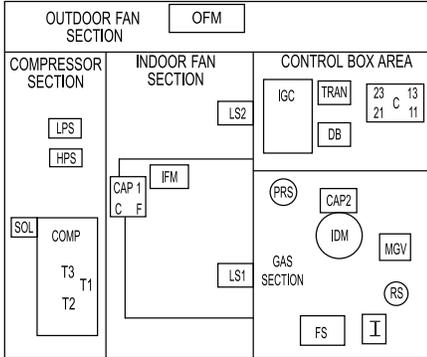
CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING



NOTE: IF Y2 DE-ENERGIZED REMOVES CALL FOR COOLING, 0 SECOND OFF DELAY

3Ø UNIT COMPONENT ARRANGEMENT



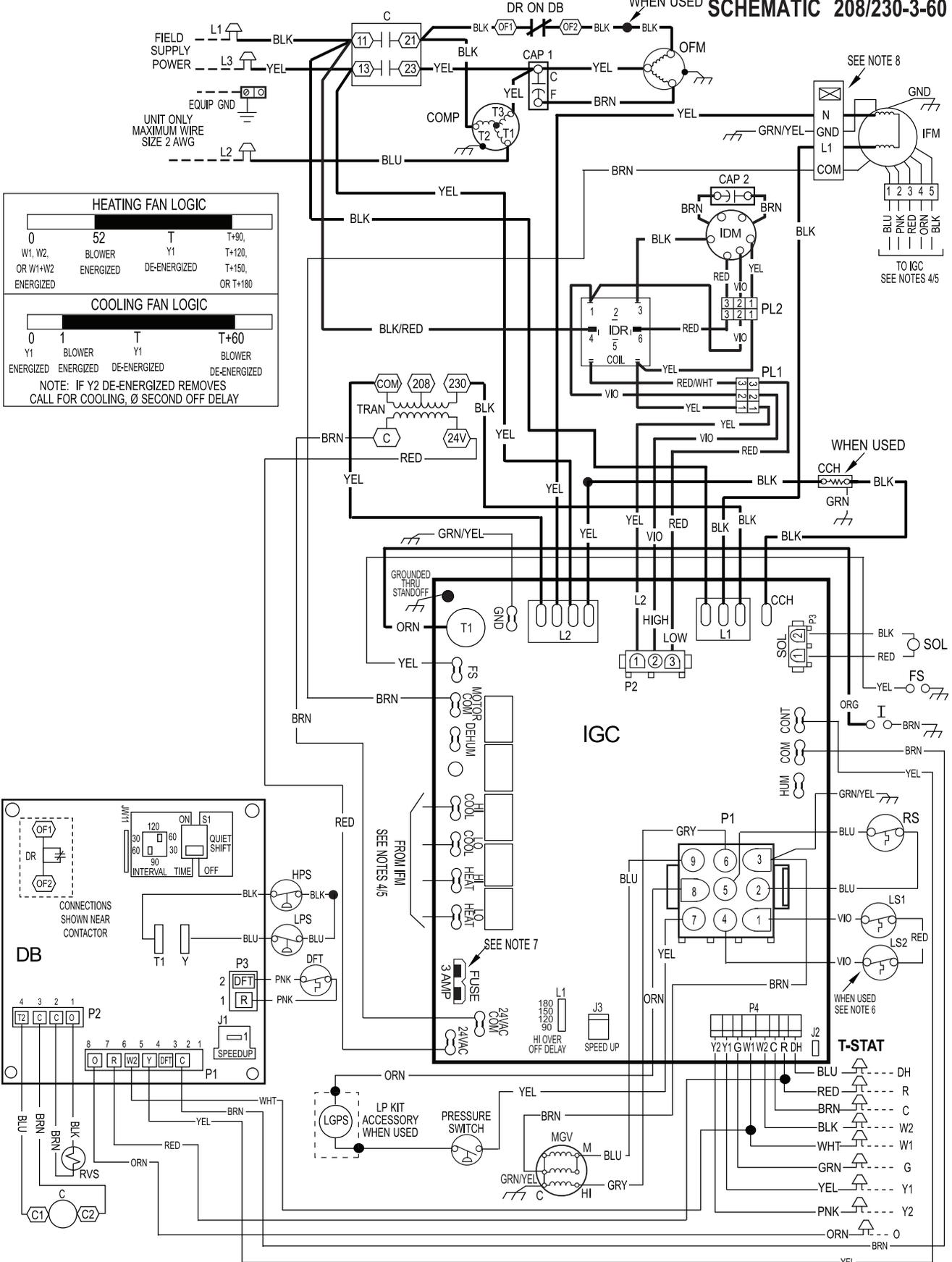
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CONNECTION WIRING SCHEMATIC GAS INPUTS 115, 130 208/230-3-60

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

SCHEMATIC 208/230-3-60



HEATING FAN LOGIC				
0	52	T	T+90	
W1, W2	BLOWER	Y1	T+120	
OR W1+W2	ENERGIZED	DE-ENERGIZED	T+150	
ENERGIZED			OR T+180	

COOLING FAN LOGIC				
0	1	T	T+60	
Y1	BLOWER	Y1	BLOWER	
ENERGIZED	ENERGIZED	DE-ENERGIZED	DE-ENERGIZED	

NOTE: IF Y2 DE-ENERGIZED REMOVES CALL FOR COOLING, Ø SECOND OFF DELAY

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CONTROLS

Operating sequence

208/230 VAC Models:

On a call for low stage heating, terminal W1 on the thermostat is energized. On a call for high stage heating both terminals W1 and W2 are energized. Regardless of the stage of the heating call, the induced-draft motor is turned on to high speed for a 15 sec pre-purge time. After the pre-purge, when the pressure switch senses that sufficient combustion air is being moved by the induced-draft motor, the ignition sequence begins. The IGC will energize the sparker and the low stage gas valve solenoid. Upon sensing flame, the IGC will check the heating call. If W2 is not energized, the IGC will drop the induced-draft motor to low speed and maintain the gas valve on low stage. If W2 is energized, the IGC will maintain the induced-draft motor on high speed and energize the high stage gas valve solenoid. Thirty sec after flame is sensed the IGC will turn on the evaporator fan motor. If W2 is not energized, the evaporator fan motor will run on low heat speed. If W2 is energized, the evaporator fan motor will run on high heat speed. After the call for heat is satisfied, the IGC will run the evaporator fan motor an additional field-selectable time of 90, 120, 150, or 180 sec before shutting the evaporator fan motor off.

Cooling Sequence of Operation

a. Continuous Fan

- (1.) Thermostat closes circuit R to G energizing the blower motor for continuous fan. The indoor fan is energized on low speed.

b. Cooling Mode

- (1.) Low Stage: Thermostat closes R to G, R to Y1 and R to O. The compressor and indoor fan are energized on low speed. The outdoor fan is also energized.
- (2.) High Stage: Thermostat closes R to G, R to Y1, R to Y2 and R to O. The compressor and indoor fan are energized on high speed. The outdoor fan is also energized.

c. Heat Pump Mode

- (1.) Low Stage: Thermostat closes R to G, R to Y1. The compressor and indoor fan are energized on low speed. The outdoor fan is also energized.
- (2.) High Stage: Thermostat closes R to G, R to Y1, R to Y2. The compressor and indoor fan are energized on high speed. The outdoor fan is also energized.

d. Defrost Mode

- (1.) Outdoor Fan is disabled, thermostat closes R to O and R to W1. Low stage gas heat tempers the leaving air. When defrost is complete, unit will return to heating mode. If room thermostat is satisfied during defrost, unit will shut down and restart in defrost on next call for heat.

NOTE: On units with a Time Guard® II device: Once the compressor has started and then stopped, it cannot be restarted again until 5 minutes have elapsed.

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 130,000 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

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

A. 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.

B. 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.

C. 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.

D. Compressor:

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

E. 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.

F. 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 of the in-shot type constructed of aluminum coated steel.
5. All gas piping and electric power shall enter the unit cabinet at a single location.

G. Refrigerant Components:

Refrigerant expansion device shall be of the TXV (thermostatic expansion valve) type for cooling and fixed orifice for heating.

H. Filters:

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

I. 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.

J. 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.

K. Electrical Requirements:

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

L. 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.

M. Compressor Protection:

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

GUIDE SPECIFICATIONS (CONT)

N. Low NOx:

Shall provide NOx reduction to meet 40 ng/J NOx emissions requirements as shipped from the factory.

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.

e. Economizer controls capable of providing free cooling using outside air.

f. Equipped with low leakage dampers not to exceed 3% leakage, at 1.0 IN. W.C. pressure differential.

g. 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. High Altitude Propane Conversion Kit:

Shall consist of all required hardware to convert to propane gas heat operation at 2001 to 6000 ft (611 to 1829 m) above sea level.

11. 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.

12. 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.

13. Natural-to-Propane Conversion Kit:

Shall be complete with all required hardware to convert to propane gas operation at 10.0 IN. W.C. manifold pressure.

14. Propane-to-Natural Conversion Kit

Shall be complete with all hardware to convert to natural gas at standard altitude (0 to 2000 ft [0 to 610 m] above sea level).

15. Square-To-Round Duct Transitions Kit (24-48 models):

Shall have the ability to convert the supply and return openings from rectangular to round.

