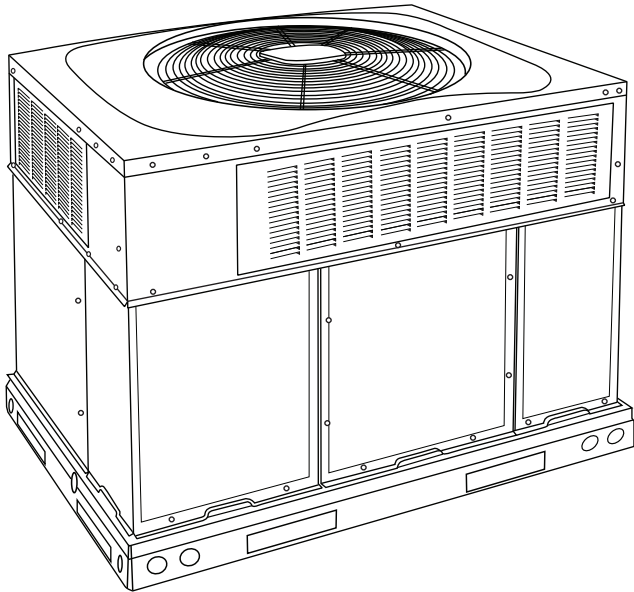


**607E--A
PREFERRED™ 15 SEER 2-STAGE PACKAGED HEAT PUMP SYSTEM WITH
PURON® (R-410A) REFRIGERANT
SINGLE AND THREE PHASE
2 TO 5 NOMINAL TONS (SIZES 24-60)**



Product Data



A09033

Fig. 1 - Unit 607E--A

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

- 15.0-15.5 SEER / 12.0-12.5 EER at 95°F (35°C) OD
- Factory-Installed TXV
- Multi-speed ECM Blower Motor - Standard
- Sound levels as low as 71dBA
- Two Stages of Cooling/Heating
- Dehumidification Feature

FEATURES/BENEFITS

One-piece heat pump unit with optional electric heater, low sound levels, easy installation, low maintenance, and dependable performance.

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

Easy Installation

Factory-assembled package is a compact, fully self-contained, electric cooling unit that is prewired, pre-piped, and pre-charged for minimum installation expense. These units are available in a variety of standard cooling sizes 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 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 up to 15.5 and HSPF of 8.5. (See page 4.)

Durable, dependable components

Scroll Compressors have 2 stages of cooling/heating 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.

Multi-speed ECM Blower Motor is standard on all 607E--A.

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 71dBA. (See Page 4.)

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 a 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.

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. The dehumidification control must open the control circuit on humidity rise above the dehumidification set point.

NOTE: The enhanced dehumidification feature on high stage cooling does not support use of an economizer.

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.

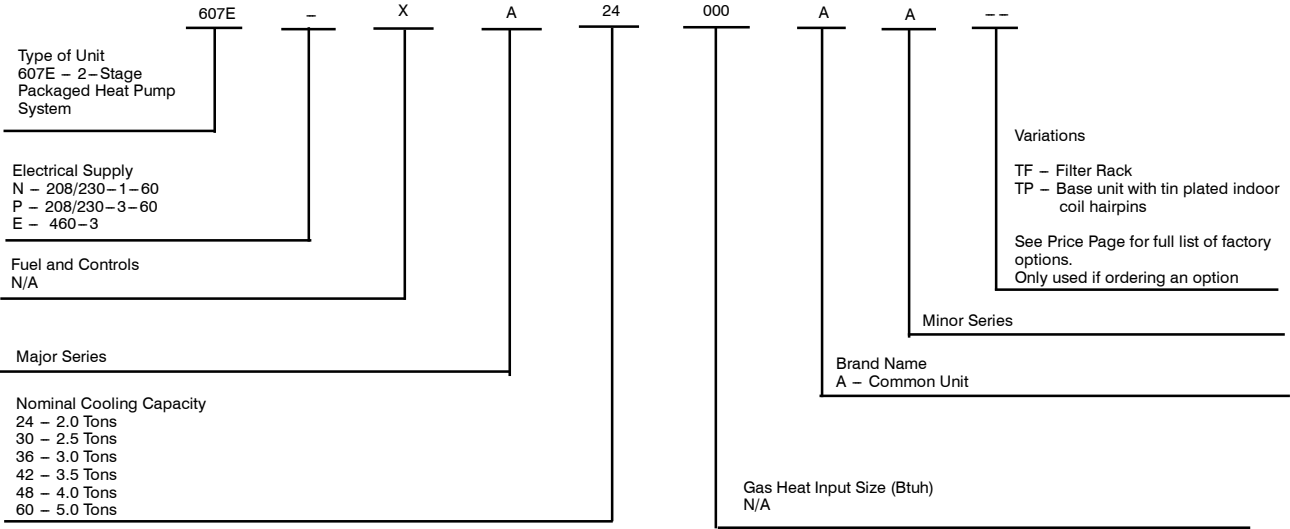
Cabinets are constructed of heavyduty, phosphated, zinc-coated prepainted steel capable of withstanding 500 hours in salt spray. Interior surfaces of the evaporator/electric heater compartment are insulated with foil-faced insulation, which keeps the conditioned air from being affected by the outdoor ambient temperature and provides improved indoor air quality. (Conforms to American Society of Heating, Refrigeration and Air Conditioning Engineers No. 62P.) The sloped drain pan minimizes standing water in the drain. An external drain is provided.

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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MODEL NUMBER NOMENCLATURE



607E--A



Use of the AHRI Certified
TM Mark indicates a
manufacturer's
participation in the
program For verification
of certification for individual
products, go to
www.ahridirectory.org.



AHRI* CAPACITIES

Cooling Capacities and Efficiencies

Unit Model 607E--A	Nominal Tons	Standard CFM (High / Low Stage)	Net Cooling Capacities - Btuh (High Stage)	EER @A**	SEER†
24	2	850 / 650	23000	12.0	15.0
30	2-1/2	1000 / 750	30000	12.0	15.0
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 / 1200	57000	12.0	15.0

Heat Pump Heating Capacities and Efficiencies

Unit Model 607E--A	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	23,000	3.8	11200	2.2	8.0	0.25
30	29,000	3.8	15400	2.3	8.0	0.25
36	34,000	3.7	17200	2.3	8.0	0.25
42	42,000	3.6	24000	2.5	8.0	0.25
48	47,000	3.7	26000	2.3	8.0	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.

A-WEIGHTED SOUND POWER LEVEL (dBA)

Model 607E--A	Sound Ratings (dBA)	TYPICAL OCTAVE BAND SPECTRUM(dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	73	58.5	65	66.5	67	62	57.5	54.5
30	76	59	63	69	70	63.5	59	53.5
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 (not listed in AHRI).

PHYSICAL DATA

UNIT SIZE	24	30	36	42	48	60
NOMINAL CAPACITY (ton)	2	2-1/2	3	3-1/2	4	5
SHIPPING WEIGHT lb.	356	364	420	466	462	511
SHIPPING WEIGHT (kg)	162	165	191	212	210	232
COMPRESSORS	Scroll					
Quantity	1					
REFRIGERANT (R-410A)						
Quantity lb	9.0	10.0	11.0	14.6	12.0	14.8
Quantity (kg)	4.1	4.5	5.0	6.6	5.4	6.7
REFRIGERANT METERING DEVICE	TXV, Indoor TXV					
ORIFICE						
ID (in.)	.032 (2)	.040 (2)	.042 (2)	.042 (2)	.042 (2)	.052 (2)
ID (mm)	0.81 (2)	1.02 (2)	1.07 (2)	1.07 (2)	1.07 (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)	13.6	15.3	13.6	19.4	17.5	23.3
OUTDOOR FAN						
Nominal Cfm	2100	2500	3000	3000	3300	3600
Diameter in.	24	24	26	26	26	26
Diameter (mm)	609.6	609.6	660.4	660.4	660.4	660.4
Motor Hp (Rpm)	1/12 (800)	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	4...17
Face Area (sq ft)	3.7	3.7	4.7	4.7	5.7	5.7
INDOOR BLOWER						
Nominal Low Stage Cooling Airflow (Cfm)	650	750	900	1050	1200	1400
Nominal High Stage Cooling Airflow (Cfm)	850	1000	1200	1400	1600	1750
Size in.	10x10	10x10	11x10	11x10	11x10	11x10
Size (mm.)	254x254	254x254	279.4x254	279.4x254	279.4x254	279.4x254
Motor HP (RPM)	1/2 (1050)	1/2 (1050)	3/4 (1000)	3/4 (1075)	1.0 (1075)	1.0 (1075)
HIGH-PRESSURE SWITCH (psig) Cut-out Reset (Auto)	650 +/- 15 420 +/- 25					
LOW-PRESSURE SWITCH (psig) cut-out Reset (auto)	20 +/- 5 45 +/- 5					
RETURN-AIR FILTERS†‡						
Throwaway Size in.	20x20x1	20x24x1	24x30x1	24x36x1		
Throwaway Size (mm)	508x508x25	508x610x25	610x762x25	610x914x25		

† 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 or 450 ft/minute for high-capacity 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.

Electric Heat Pressure Drop Tables (IN. W.C.)

Small Cabinet: 24-30

STATIC	STANDARD CFM (SCFM)											
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
5 kW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.07
10 kW	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.07	0.09	0.10	0.11
15 kW	0.00	0.00	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18
20 kW	0.00	0.00	0.02	0.04	0.06	0.08	0.09	0.11	0.13	0.15	0.17	0.19

Large Cabinet: 36-60

STATIC	STANDARD CFM (SCFM)														
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
5 kW	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12
10 kW	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
15 kW	0.00	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15
20 kW	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16

607E--A

OPTIONS AND ACCESSORIES

ITEM	DESCRIPTION	FACTORY INSTALLED OPTION	FIELD INSTALLED ACCESSORY
Coil Options	Base unit with tin plated indoor coil hairpins	X	
Compressor Start Kit	Compressor Start Kit assists compressor start-up by providing additional starting torque on sing phase units only.		X
Corporate Thermostats	Thermostats provide control for the system heating and cooling functions.		X
Crankcase Heater	Crankcase Heater provides anti-floodback protection for low-load cooling applications.		X*
Economizer	Vertical Economizer with Jade Honeywell W7220 Controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order.)		X
	Horizontal Economizer with Jade Honeywell W7220 Controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order.)		X
Electric Heaters	Electric Heat Supplement		X
Filter Rack	Filter Rack features easy installation, serviceability, and high-filtering performance for vertical applications. Includes 1-in. filter.	X	X
Flat Roof Curbs	Flat Roof Curbs in both 11-in (279 mm) and 14-in. (356 mm) sizes are available for roof mounted applications.		X
Low Ambient Kit	Low Ambient Kit (Motormaster II Control) allows the use of mechanical cooling down to outdoor temperatures as low as 0°F (-18°C) when properly installed.		X
Manual Outside Air Damper	Manual Outside Air Damper includes hood and filter rack with adjustable damper blade for up to 25% outdoor air.		X
Square-to-Round Duct Transition Kit	Square-to-Round Duct Transition Kit enable 24-48 size units to be fitted to 14 in (356 mm). round ductwork.		X
Time Guard II	Automatically prevents the compressor from restarting for at least 4 minutes and 45 seconds after shutdown of the compressor. Not required when a corporate programmable thermostat is applied or with a RTU-MP control.		X
Dual Point Electric Heaters	Allows you to power the electric heater and unit contactor separately by having two individual field power supply circuits connected respectively.		X

*Refer to Price Page for application detail.

Electric Heaters

CATALOG ORDERING NO.	NOMINAL CAPACITY (kW)	FUSE QTY	USED WITH SIZES					
			24	30	36	42	48	60
ELECTRIC HEATERS (208/230 — SINGLE PHASE — 60 Hz)								
CPHEATER052A00	5.0	—	X	X	X			
CPHEATER064A00	5.0	4	X	X	X	X	X	X
CPHEATER069A00	7.2	—	X					
CPHEATER070A00	7.2	4	X	X	X	X	X	X
CPHEATER050A00	10.0	4	X	X	X	X	X	X
CPHEATER066A00	15.0	4		X	X	X	X	X
CPHEATER054A00	20.0	6				X	X	X
ELECTRIC HEATERS (208/230 — THREE PHASE — 60 Hz)								
CPHEATER055A00	5.0	—		X	X	X	X	X
CPHEATER056A00	10.0	—		X	X	X	X	
CPHEATER068A00	10.0	6		X	X	X	X	X
CPHEATER058A00	20.0	6		X	X	X	X	X
CPHEATER059A01	20.0	6				X	X	X
ELECTRIC HEATERS (460 — THREE PHASE — 60 Hz)								
CPHEATER061A00	10.0	—			X	X	X	X
CPHEATER062A00	15.0	—			X	X	X	X
CPHEATER063A00	20.0	—				X	X	X

NOTE: Electric heaters are rated at 240v. Refer to Multiplication Factors table for other voltages.

X = Approved combinations.

Minimum Airflow for Safe Electric Heater Operation (CFM)

SIZE	24	30	36	42	48	60
Cfm	800	1000	1200	1400	1600	1750

UNIT DIMENSIONS - 607E--A24-30

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM		CENTER OF GRAVITY IN/MM	
		LB	KG	"A"		X	Y Z
607ENXA24000A**	208/230-1	348	157.9	44-1/8	1121	20-1/2	15-3/4 400.1 16-5/8 422.3
607E(N,P)XA30000A**	208/230-1, 208/230-3-60	356	161.5	46-1/8	1172	20-1/2	15-3/4 400.1 17-3/8 441.3

UNIT	VOLTAGE	CORNER WEIGHT LB/KG		
		"1"	"2"	"3"
607ENXA24000A**	208/230	41.8	23.7	55.7
607E(N,P)XA30000A**	208/230	42.7	24.2	57.0

NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER

REQUIRED CLEARANCES TO COMBUSTIBLE MATL

TOP OF UNIT.....	14 [355.6]
DUCT SIDE OF UNIT.....	2 [50.8]
SIDE OPPOSITE DUCTS.....	14 [355.6]
BOTTOM OF UNIT.....	0 [0.0]
ELECTRICAL PANEL.....	36 [914.4]

NEC. REQUIRED CLEARANCES

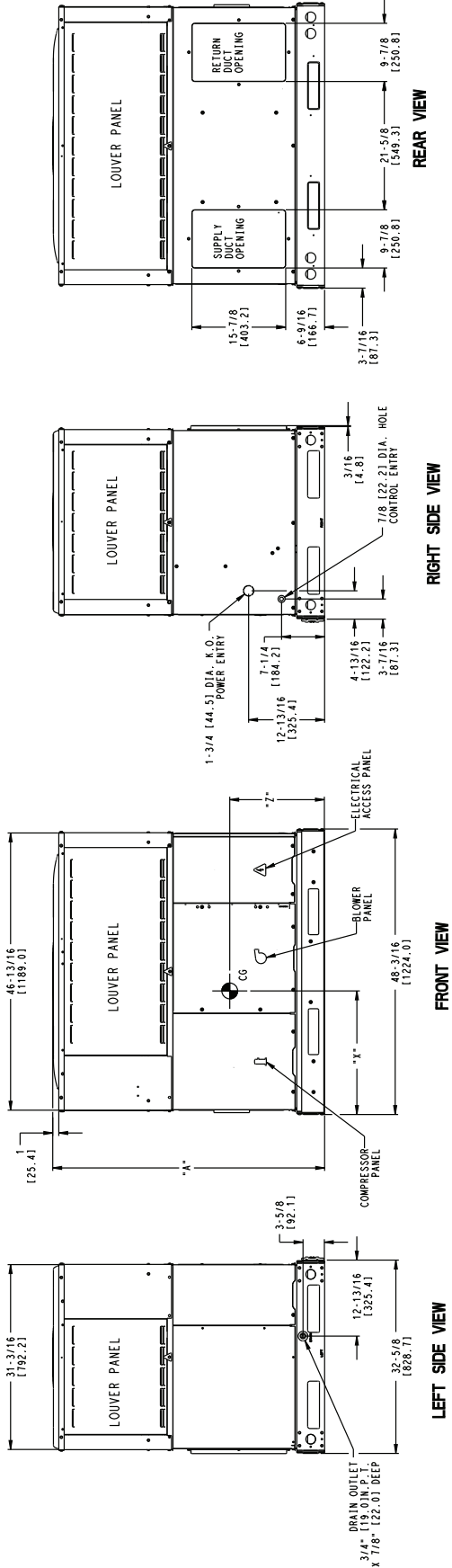
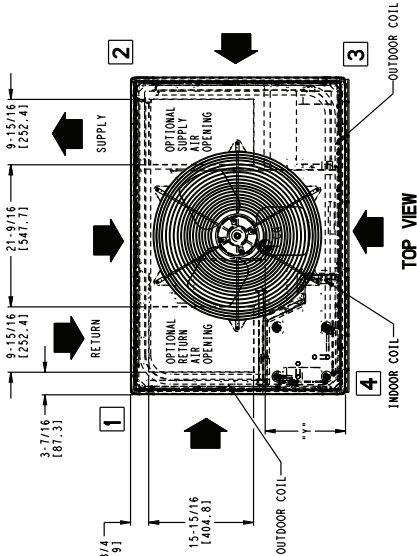
BETWEEN UNITS, POWER ENTRY SIDE.....	42 [1066.8]
UNIT AND UNGROUND SURFACES, POWER ENTRY SIDE.....	36 [914.0]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUND SURFACES, POWER ENTRY SIDE.....	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

EVAP. COIL ACCESS SIDE.....	36 [914.0]
POWER ENTRY SIDE.....	42 [1066.8]
(EXCEPT FOR NEC REQUIREMENTS)	
UNIT TOP.....	48 [1219.2]
SIDE OPPOSITE DUCTS.....	36 [914.0]
DUCT PANEL.....	12 [304.8]

*MINIMUM DISTANCES-IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.

DIMENSIONS IN [] ARE IN MILLIMETERS



REV	-
50VR500142	

607E--A

607E--A36-60 UNIT DIMENSIONS

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM		CENTER OF GRAVITY IN/MM		
		LB	KG	"A"		X	Y	Z
607E(N/P/E)XA36000A**	208/230-1, 208/230-3-60, 460-3	413	187.3	44-3/4	1137	20-1/4	514.4	17-1/2 444.5 17-5/8 447.7
607E(N/P/E)XA42000A**	208/230-1, 208/230-3-60, 460-3	444	201.4	50-3/4	1289	20-1/4	514.4	17-1/2 444.5 17-5/8 447.7
607E(N/P/E)XA48000A**	208/230-1, 208/230-3-60, 460-3	447	202.8	48-3/4	1238	20-1/4	514.4	17-1/2 444.5 17-5/8 447.7
607E(N/P/E)XA60000A**	208/230-1, 208/230-3-60, 460-3	503	228.2	54-3/4	1391	20-1/4	514.4	17-1/2 444.5 18 457.2

UNIT	VOLTAGE	CORNER WEIGHTS LB/KG			
		"1"	"2"	"3"	"4"
607E(N/P/E)XA36000A**	208/230/460	49.6	28.1	66.1	37.5
607E(N/P/E)XA42000A**	208/230/460	53.3	30.2	71.0	40.3
607E(N/P/E)XA48000A**	208/230/460	53.6	30.4	71.5	40.6
607E(N/P/E)XA60000A**	208/230/460	60.4	34.2	80.5	45.6

NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

TOP OF UNIT.....	INCHES [MM]
DUCT SIDE OF UNIT.....	14 [355.6]
SIDE OPPOSITE DUCTS.....	2 [50.8]
BOTTOM OF UNIT.....	14 [355.6]
ELECTRICAL PANEL.....	0 [0.0]
	36 [914.4]

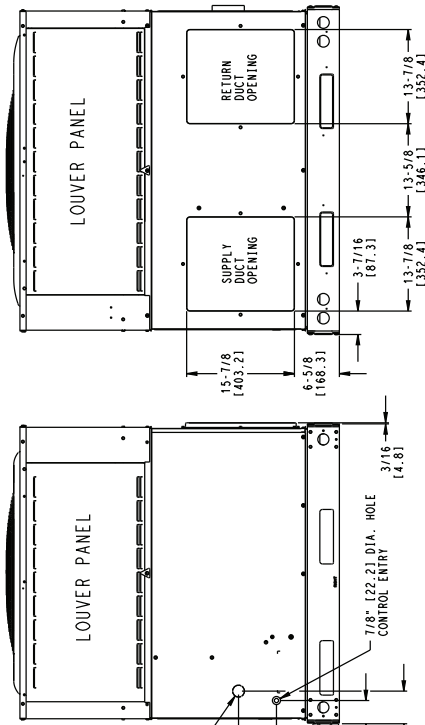
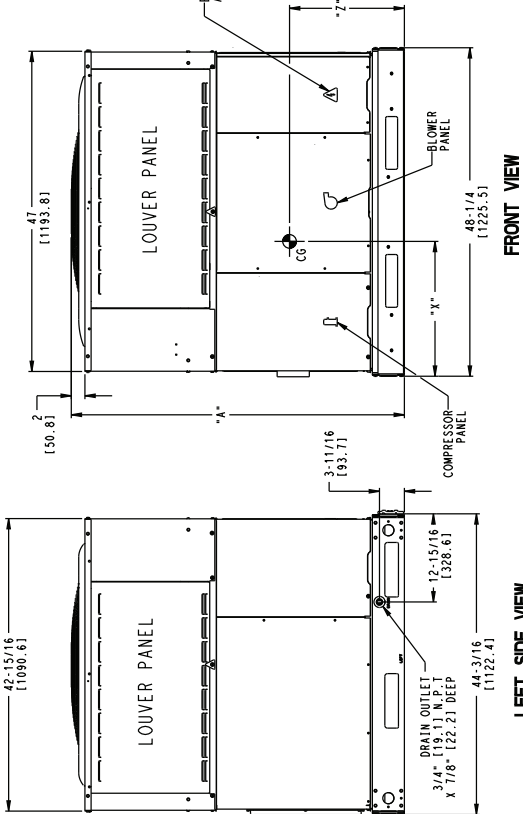
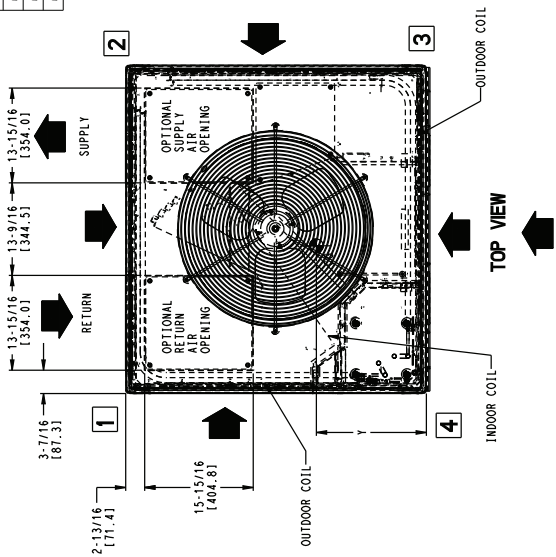
NEC. REQUIRED CLEARANCES.

BETWEEN UNITS, POWER ENTRY SIDE.....	INCHES [MM]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE.....	42 [1066.8]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE.....	36 [914.0]
	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

EVAP. COIL ACCESS SIDE.....	INCHES [MM]
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(EXCEPT FOR NEC REQUIREMENTS)	42 [1066.8]
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*MINIMUM DISTANCES-IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED. DIMENSIONS IN [] ARE IN MM



REAR VIEW

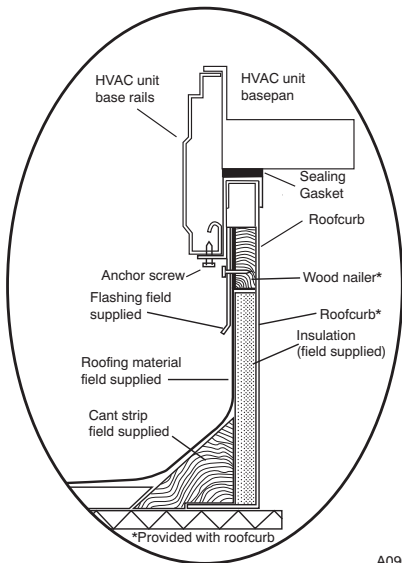
RIGHT SIDE VIEW

FRONT VIEW

LEFT SIDE VIEW

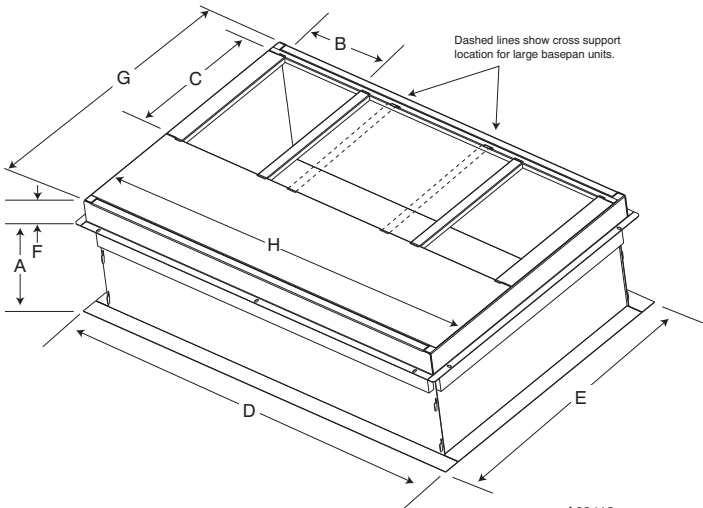
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ROOF CURB ACCESSORY - 607E--A24-60



A09090

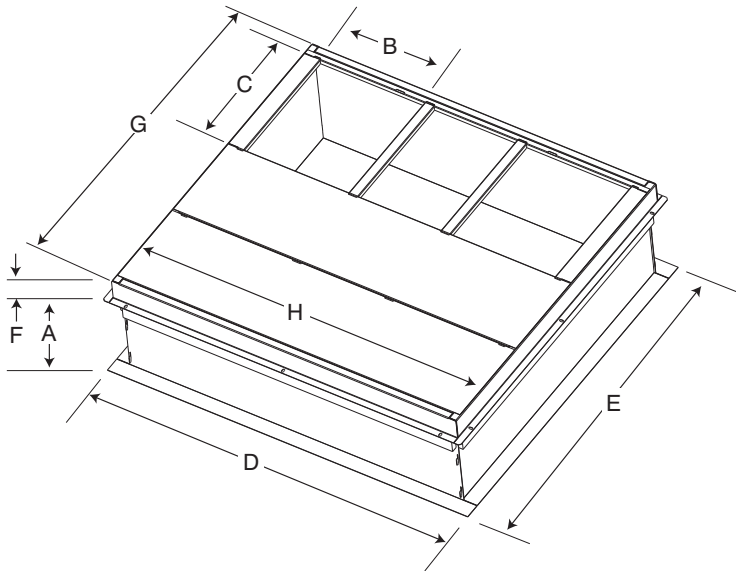
ROOF CURB DETAIL



A09413

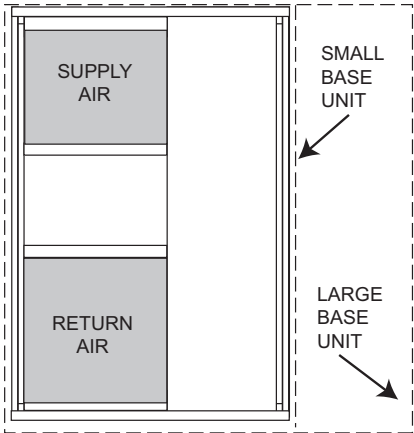
SMALL/COMMON CURB

607E--A



A09415

LARGE CURB



A09094

UNIT PLACEMENT ON
COMMON CURB

SMALL OR LARGE BASE UNIT

A09414

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	CPRFCURB010A00	11 (279)	10 (254)	14 (356)	16 (406)	47.8 (1214)	32.4 (822)	2.7 (69)	30.6 (778)	46.1 (1170)		
	CPRFCURB011A00	14 (356)										
Large	CPRFCURB012A00	11 (279)	14 (356)								43.9 (1116)	42.2 (1072)
	CPRFCURB013A00	14 (356)										

* Part Numbers CPRCURB010A00 and CPRCURB011A00 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) 24,000 Btuh
- Required Heating Capacity 12,500 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 0.20 IN. W.C.
- Electrical Characteristics 230-1-60

2. Select unit based on required cooling capacity.

Enter Net Cooling Capacities table at condenser entering temperature of 95°F (35°C), indoor air entering at 1200 cfm and 67°F (19°C) ewb (entering wet bulb). The unit will provide a total capacity of 34,200 Btuh and a SHC of 24,500 Btuh.

3. Select electric heat.

The required heating capacity is 15,000 Btuh.

Determine additional electric heat capacity in kW.

15,000 Btuh = 4.4kW of heat required
3,414 Btuh/kW

Enter the electric Heater Packages table for 208/240, single-phase, 607E--A36 unit. The 5 kW heater at 240v most closely satisfies the heating required. To calculate kW at the 208v, multiply the heater kW by multiplication factor 0.75 found in the Wattage Multiplication Factors table.

5 kW x 0.75 = 3.75 kW

3.75 kW x 3414 = 12802.50 Btuh

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	0.200 IN. W.C.
Filter	0.000 IN. W.C.
Wet Coil Pressure Drop	<u>0.130 IN. W.C.</u>
Total Static Pressure	0.330 IN. W.C.

Enter the table for Wet Coil Air Delivery—horizontal discharge, 230. At 0.33 IN. W.C. ESP (external static pressure) and medium speed, the fan will deliver 1293 cfm. Adjusting for 208v, the motor delivers 114 cfm (deduct 10%).

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 (40.5)			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
CFM	EWB	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens
700	57 (13.9)	23.63	23.63	1.56	21.91	21.91	1.71	20.17	20.17	1.86	18.41	18.41	2.03	16.62	16.62	2.22	14.78	14.78	2.42
	62 (16.7)	24.45	21.75	1.57	22.48	20.70	1.71	20.50	19.62	1.87	18.53	18.48	2.03	16.64	16.64	2.22	14.80	14.80	2.42
	63* (17.2)	24.82	17.75	1.57	22.81	16.82	1.71	20.79	15.89	1.87	18.75	14.95	2.04	16.69	13.99	2.22	14.62	13.01	2.42
	67 (19.4)	26.72	18.43	1.58	24.53	17.47	1.73	22.34	16.51	1.88	20.14	15.53	2.05	17.92	14.55	2.23	15.69	13.54	2.43
	72 (13.9)	29.23	15.07	1.59	26.83	14.18	1.74	24.42	13.28	1.90	22.01	12.38	2.07	19.59	11.46	2.25	17.16	10.54	2.45
	57 (13.9)	25.16	25.16	1.60	23.28	23.28	1.75	21.38	21.38	1.90	19.45	19.45	2.07	17.49	17.49	2.25	15.49	15.49	2.46
850	62 (16.7)	25.44	24.06	1.60	23.38	23.19	1.75	21.41	21.41	1.90	19.47	19.47	2.07	17.51	17.51	2.25	15.51	15.51	2.46
	63* (17.2)	25.71	19.47	1.60	23.56	18.48	1.75	21.41	17.48	1.90	19.26	16.48	2.07	17.10	15.44	2.25	14.92	14.37	2.45
	67 (19.4)	27.66	20.27	1.61	25.33	19.25	1.76	23.00	18.20	1.92	20.68	17.17	2.08	18.34	16.10	2.26	16.00	15.00	2.46
	72 (13.9)	30.23	16.22	1.63	27.68	15.28	1.78	25.13	14.33	1.94	22.58	13.37	2.11	20.03	12.41	2.29	17.48	11.44	2.48
	57 (13.9)	25.60	25.60	1.61	23.66	23.66	1.76	21.71	21.71	1.91	19.74	19.74	2.08	17.73	17.73	2.27	15.69	15.69	2.47
	62 (16.7)	25.75	24.73	1.61	23.70	23.70	1.76	21.75	21.75	1.91	19.77	19.77	2.08	17.75	17.75	2.27	15.71	15.71	2.47
900	63* (17.2)	25.94	20.02	1.61	23.76	19.01	1.76	21.58	17.99	1.91	19.39	16.96	2.08	17.20	15.90	2.26	15.00	14.79	2.46
	67 (19.4)	27.91	20.86	1.62	25.54	19.82	1.77	23.17	18.75	1.93	20.81	17.69	2.09	18.45	16.59	2.27	16.08	15.45	2.47
	72 (13.9)	30.50	16.58	1.64	27.90	15.62	1.79	25.31	14.66	1.95	22.73	13.69	2.12	20.14	12.71	2.30	17.55	11.73	2.49

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

024 High Heat

OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																	
INDOOR AIR		-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	Capacity MBtuh		Total Sys KW	
		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		
65 (18.3)	700	5.33	4.90	1.29	7.58	6.97	1.37	10.13	9.30	1.45	13.07	11.85	1.52				
	850	5.46	5.03	1.30	7.73	7.11	1.38	10.33	9.48	1.44	13.38	12.13	1.51				
	900	5.53	5.09	1.31	7.84	7.21	1.38	10.48	9.62	1.45	13.83	12.54	1.52				
70 (21.1)	700	5.08	4.68	1.35	7.33	6.75	1.43	9.90	9.09	1.51	12.84	11.65	1.59				
	850	5.21	4.80	1.36	7.51	6.91	1.44	10.12	9.29	1.51	13.12	11.90	1.57				
	900	5.26	4.83	1.37	7.56	6.95	1.44	10.18	9.34	1.51	13.20	11.97	1.57				
75 (23.9)	700	4.78	4.40	1.41	7.02	6.46	1.49	9.57	8.78	1.57	12.48	11.32	1.66				
	850	4.91	4.52	1.42	7.20	6.62	1.50	9.79	8.99	1.57	12.76	11.58	1.64				
	900	4.95	4.56	1.42	7.25	6.67	1.50	9.85	9.05	1.57	12.84	11.65	1.64				
OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C)																	
INDOOR AIR		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	Capacity MBtuh		Total Sys KW	
		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		
65 (18.3)	700	16.49	14.45	1.60	20.12	20.12	1.68	24.17	24.17	1.77	29.04	29.04	1.89				
	850	16.78	14.70	1.58	20.47	20.47	1.64	24.67	24.67	1.72	29.75	29.75	1.82				
	900	16.99	14.88	1.57	20.56	20.56	1.63	24.81	24.81	1.71	29.93	29.93	1.81				
70 (21.1)	700	16.42	14.39	1.68	19.82	19.82	1.76	23.76	23.76	1.85	28.54	28.54	1.97				
	850	16.67	14.61	1.65	20.16	20.16	1.72	24.25	24.25	1.80	29.22	29.22	1.91				
	900	16.75	14.67	1.65	20.25	20.25	1.71	24.39	24.39	1.79	29.40	29.40	1.89				
75 (23.9)	700	16.14	14.14	1.75	19.52	19.52	1.84	23.40	23.40	1.94	28.03	28.03	2.06				
	850	16.42	14.39	1.73	19.86	19.86	1.80	23.84	23.84	1.88	28.69	28.69	1.99				
	900	16.49	14.45	1.72	19.95	19.95	1.79	23.97	23.97	1.87	28.87	28.87	1.98				

See Legend and Notes on Page 35.

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)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
525	57 (13.8)	17.15	17.15	1.02	16.26	16.26	1.23	15.31	15.31	1.46	14.30	14.30	1.74	13.18	13.18	2.05
	62 (16.6)	17.62	16.45	1.01	16.56	15.90	1.22	15.46	15.32	1.46	14.32	14.32	1.74	13.20	13.20	2.05
	63* (17.2)	17.88	13.36	1.01	16.80	12.87	1.22	15.67	12.37	1.46	14.45	11.83	1.74	13.13	11.24	2.05
	67 (19.4)	19.22	13.84	0.99	18.05	13.35	1.20	16.82	12.83	1.44	15.52	12.28	1.72	14.11	11.69	2.03
	72 (22.2)	21.00	11.22	0.96	19.72	10.73	1.17	18.39	10.22	1.41	16.97	9.68	1.69	15.46	9.12	2.01
650	57 (13.8)	18.29	18.29	1.03	17.30	17.30	1.24	16.25	16.25	1.47	15.13	15.13	1.75	13.91	13.91	2.06
	62 (16.6)	18.35	18.35	1.03	17.32	17.32	1.24	16.27	16.27	1.47	15.15	15.15	1.75	13.93	13.93	2.06
	63* (17.2)	18.51	14.78	1.03	17.34	14.27	1.24	16.13	13.74	1.48	14.83	13.18	1.76	13.43	12.57	2.07
	67 (19.4)	19.89	15.37	1.00	18.62	14.84	1.22	17.31	14.30	1.46	15.92	13.72	1.73	14.43	13.09	2.05
	72 (22.2)	21.71	12.15	0.98	20.34	11.64	1.19	18.91	11.11	1.43	17.40	10.55	1.71	15.80	9.97	2.03
700	57 (13.8)	18.67	18.67	1.03	17.64	17.64	1.24	16.56	16.56	1.48	15.40	15.40	1.75	14.14	14.14	2.07
	62 (16.6)	18.70	18.70	1.03	17.67	17.67	1.24	16.58	16.58	1.48	15.42	15.42	1.75	14.16	14.16	2.07
	63* (17.2)	18.69	15.32	1.03	17.51	14.80	1.25	16.27	14.26	1.49	14.95	13.69	1.76	13.53	13.05	2.08
	67 (19.4)	20.09	15.95	1.01	18.80	15.42	1.22	17.46	14.85	1.46	16.04	14.26	1.74	14.52	13.62	2.06
	72 (22.2)	21.93	12.50	0.98	20.52	11.98	1.20	19.07	11.44	1.44	17.53	10.89	1.72	15.89	10.30	2.04

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

024 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)		
		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
EDB	CFM	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	Total	Integ	
65 (18.3)	525	4.25	3.91	1.11	6.08	5.58	1.14	8.21	7.45	1.17	10.69	9.37	1.20	13.57	13.57	1.23	17.09	17.09	1.27	20.48	20.48	1.30
	650	4.39	4.04	1.11	6.25	5.74	1.13	8.44	7.66	1.15	10.98	9.62	1.16	14.01	14.01	1.18	17.40	17.40	1.20	20.90	20.90	1.21
	700	4.45	4.09	1.11	6.32	5.80	1.13	8.52	7.73	1.15	11.08	9.70	1.16	14.21	14.21	1.17	17.51	17.51	1.18	21.03	21.03	1.19
70 (21.1)	525	3.98	3.66	1.18	5.80	5.32	1.21	7.93	7.19	1.24	10.40	9.11	1.27	13.26	13.26	1.31	16.86	16.86	1.36	20.22	20.22	1.39
	650	4.14	3.81	1.19	5.99	5.50	1.21	8.18	7.41	1.23	10.70	9.38	1.24	13.63	13.63	1.26	17.20	17.20	1.29	20.64	20.64	1.30
	700	4.19	3.85	1.19	6.06	5.57	1.21	8.26	7.49	1.22	10.79	9.45	1.24	13.75	13.75	1.25	17.30	17.30	1.27	20.77	20.77	1.28
75 (23.9)	525	3.68	3.39	1.25	5.50	5.05	1.29	7.63	6.92	1.32	10.09	8.84	1.35	12.93	12.93	1.39	16.60	16.60	1.45	19.98	19.98	1.49
	650	3.84	3.53	1.26	5.69	5.23	1.28	7.88	7.14	1.31	10.40	9.11	1.32	13.31	13.31	1.35	16.97	16.97	1.38	20.37	20.37	1.39
	700	3.89	3.58	1.27	5.77	5.29	1.29	7.96	7.21	1.30	10.49	9.19	1.32	13.43	13.43	1.33	17.08	17.08	1.36	20.51	20.51	1.37

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

030 High Cool

CONDENSER ENTERING AIR TEMPERATURES ° F (° C)													
EVAPORATOR AIR		75 (23.9)				85 (29.4)				95 (35)			
CFM	EWB	Capacity MBtuh		Total Sys KW	Total Sys KW	Capacity MBtuh		Total Sys KW	Total Sys KW	Capacity MBtuh		Total Sys KW	Total Sys KW
		Total	Sens	Total		Sens	Total	Sens					
875	57 (13.9)	29.28	29.28	2.07	2.24	27.78	27.78	2.24	2.43	24.63	24.63	2.64	2.88
	62 (16.7)	30.43	28.15	2.08	2.25	26.82	26.82	2.25	2.44	24.87	24.04	2.65	2.88
	63* (17.2)	30.94	23.01	2.09	2.25	29.09	21.82	2.25	2.44	25.24	19.42	2.65	2.88
	67 (19.4)	33.38	23.93	2.11	2.28	31.38	22.70	2.28	2.46	27.23	20.23	2.67	2.90
	72 (13.9)	36.71	19.50	2.14	2.31	34.51	18.38	2.31	2.49	29.96	16.14	2.70	2.93
	57 (13.9)	30.66	30.66	2.12	2.29	29.05	29.05	2.29	2.48	25.67	25.67	2.69	2.92
1000	62 (16.7)	31.29	30.30	2.12	2.29	29.40	28.83	2.29	2.48	25.71	25.71	2.69	2.92
	63* (17.2)	31.75	24.55	2.12	2.29	29.80	23.30	2.29	2.48	25.77	20.78	2.69	2.92
	67 (19.4)	34.24	25.59	2.15	2.32	32.14	24.29	2.32	2.50	27.78	21.69	2.71	2.94
	72 (13.9)	37.64	20.63	2.18	2.35	35.33	19.46	2.35	2.53	30.54	17.12	2.73	2.96
	57 (13.9)	31.84	31.84	2.16	2.33	30.13	30.13	2.33	2.52	26.54	26.54	2.72	2.96
	62 (16.7)	32.09	32.19	2.16	2.33	30.18	30.18	2.33	2.52	26.59	26.59	2.73	2.96
1125	63* (17.2)	32.40	26.03	2.16	2.33	30.36	24.72	2.33	2.51	26.18	22.08	2.72	2.95
	67 (19.4)	34.93	27.18	2.19	2.35	32.74	25.82	2.35	2.54	28.22	23.10	2.74	2.97
	72 (13.9)	38.36	21.67	2.22	2.39	35.96	20.44	2.39	2.57	31.00	17.99	2.77	3.00
	57 (13.9)	29.28	29.28	2.07	2.24	27.78	27.78	2.24	2.43	24.63	24.63	2.64	2.88
	62 (16.7)	30.43	28.15	2.08	2.25	26.82	26.82	2.25	2.44	24.87	24.04	2.65	2.88
	63* (17.2)	30.94	23.01	2.09	2.25	29.09	21.82	2.25	2.44	25.24	19.42	2.65	2.88

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

030 High Heat

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)									
EDB °F (°C)	CFM	-10 (-23.3)		0 (-17.8)		10 (-12.2)		20 (-6.7)		Total Sys KW	Total Sys KW
		Capacity MBtuh	Integ	Capacity MBtuh	Integ	Capacity MBtuh	Integ	Capacity MBtuh	Integ		
65 (18.3)	875	7.68	7.06	10.64	9.79	13.89	12.75	17.52	15.89	1.93	2.01
	1000	7.83	7.20	10.82	9.96	14.12	12.96	17.79	16.14	1.94	2.00
	1125	7.98	7.35	11.01	10.13	14.33	13.15	18.05	16.37	1.95	2.01
70 (21.1)	875	7.16	6.59	10.14	9.33	13.42	12.31	17.04	15.45	2.01	2.09
	1000	7.33	6.74	10.36	9.53	13.66	12.54	17.30	15.69	2.02	2.08
	1125	7.48	6.88	10.54	9.69	13.87	12.73	17.58	15.94	2.03	2.09
75 (23.9)	875	6.59	6.06	9.62	8.85	12.91	11.85	16.53	14.99	2.09	2.17
	1000	6.76	6.22	9.82	9.04	13.16	12.08	16.82	15.26	2.10	2.17
	1125	6.92	6.36	10.00	9.20	13.37	12.27	17.08	15.49	2.11	2.17

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)									
EDB °F (°C)	CFM	30 (-1.1)		40 (-4.4)		50 (10)		60 (15.6)		Total Sys KW	Total Sys KW
		Capacity MBtuh	Integ	Capacity MBtuh	Integ	Capacity MBtuh	Integ	Capacity MBtuh	Integ		
65 (18.3)	875	21.76	19.07	25.79	25.79	30.46	30.46	36.06	36.06	2.26	2.39
	1000	22.03	19.30	26.12	26.12	30.91	30.91	36.67	36.67	2.23	2.34
	1125	22.25	19.50	26.39	26.39	31.29	31.29	37.18	37.18	2.21	2.31
70 (21.1)	875	21.44	18.79	25.41	25.41	29.97	29.97	35.46	35.46	2.36	2.49
	1000	21.70	19.01	25.74	25.74	30.41	30.41	36.06	36.06	2.32	2.44
	1125	21.93	19.21	26.01	26.01	30.78	30.78	36.55	36.55	2.30	2.41
75 (23.9)	875	21.07	18.46	25.05	25.05	29.49	29.49	34.86	34.86	2.46	2.59
	1000	21.35	18.71	25.36	25.36	29.92	29.92	35.45	35.45	2.42	2.54
	1125	21.59	18.92	25.63	25.63	30.28	30.28	35.93	35.93	2.40	2.51

See Legend and Notes on Page 35.

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	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens
655	57 (13.8)	21.92	21.92	1.42	20.96	20.96	1.55	19.92	19.92	1.69	18.79	18.79	1.84	17.54	17.54	2.00	16.16	16.16	2.18
	62 (16.6)	22.61	20.64	1.41	21.42	19.68	1.54	20.16	18.68	1.68	18.85	18.76	1.84	17.57	17.57	2.00	16.18	16.18	2.18
	63* (17.2)	22.99	16.76	1.41	21.77	15.92	1.54	20.48	15.07	1.68	19.09	14.19	1.83	17.56	13.29	2.00	15.86	12.35	2.19
	67 (19.4)	24.79	17.43	1.39	23.47	16.56	1.52	22.07	15.69	1.66	20.58	14.79	1.82	18.95	13.86	1.99	17.17	12.92	2.17
	72 (22.2)	27.24	14.11	1.37	25.80	13.31	1.50	24.27	12.51	1.64	22.65	11.69	1.80	20.89	10.85	1.97	18.97	9.98	2.16
750	57 (13.8)	22.91	22.91	1.44	21.86	21.86	1.57	20.75	20.75	1.70	19.54	19.54	1.85	18.21	18.21	2.02	16.73	16.73	2.20
	62 (16.6)	23.22	22.18	1.43	21.99	21.10	1.56	20.78	20.78	1.70	19.57	19.57	1.85	18.24	18.24	2.02	16.76	16.76	2.20
	63* (17.2)	23.53	17.89	1.43	22.25	17.01	1.56	20.89	16.13	1.70	19.43	15.21	1.86	17.86	14.27	2.02	16.10	13.29	2.21
	67 (19.4)	25.38	18.64	1.41	23.98	17.73	1.54	22.52	16.82	1.69	20.95	15.88	1.84	19.26	14.92	2.01	17.40	13.93	2.19
	72 (22.2)	27.87	14.90	1.39	26.35	14.07	1.52	24.75	13.23	1.67	23.05	12.38	1.82	21.21	11.51	1.99	19.21	10.63	2.18
840	57 (13.8)	23.70	23.70	1.46	22.59	22.59	1.58	21.41	21.41	1.72	20.13	20.13	1.87	18.73	18.73	2.04	17.19	17.19	2.22
	62 (16.6)	23.75	23.75	1.45	22.63	22.63	1.58	21.45	21.45	1.72	20.16	20.16	1.87	18.76	18.76	2.04	17.21	17.21	2.22
	63* (17.2)	23.93	18.91	1.45	22.60	18.00	1.59	21.19	17.08	1.73	19.68	16.14	1.88	18.06	15.15	2.05	16.27	14.12	2.23
	67 (19.4)	25.81	19.74	1.43	24.36	18.80	1.57	22.85	17.84	1.71	21.23	16.87	1.86	19.48	15.87	2.03	17.58	14.83	2.22
	72 (22.2)	28.34	15.57	1.41	26.76	14.71	1.54	25.10	13.85	1.69	23.34	12.98	1.84	21.44	12.09	2.01	19.38	11.19	2.20

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

030 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 MB-tuh		Total Sys KW	Capacity MB-tuh		Total Sys KW	Capacity MB-tuh		Total Sys KW	Capacity MB-tuh		Total Sys KW	Capacity MB-tuh		Total Sys KW	Capacity MB-tuh		Total Sys KW	Capacity MB-tuh		Total Sys KW	
		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		
65 (18.3)		655	5.13	4.72	1.44	7.42	6.81	1.47	10.12	9.18	1.51	13.26	11.62	1.54	16.91	16.91	1.58	21.42	21.42	1.64	25.74	25.74	1.67
		750	5.25	4.83	1.45	7.58	6.96	1.48	10.33	9.37	1.51	13.53	11.86	1.54	17.26	17.26	1.57	21.74	21.74	1.61	26.16	26.16	1.63
		840	5.37	4.95	1.47	7.74	7.11	1.49	10.52	9.54	1.52	13.76	12.06	1.54	17.55	17.55	1.56	22.01	22.01	1.59	26.51	26.51	1.61
70 (21.1)		655	4.74	4.36	1.50	7.03	6.45	1.54	9.71	8.81	1.57	12.84	11.25	1.61	16.46	16.46	1.65	21.06	21.06	1.72	25.34	25.34	1.75
		750	4.88	4.49	1.51	7.22	6.62	1.55	9.95	9.02	1.58	13.13	11.50	1.61	16.81	16.81	1.64	21.42	21.42	1.69	25.77	25.77	1.71
		840	5.00	4.60	1.53	7.36	6.76	1.56	10.13	9.19	1.59	13.35	11.70	1.61	17.08	17.08	1.63	21.69	21.69	1.67	26.10	26.10	1.69
75 (23.9)		655	4.32	3.98	1.56	6.61	6.07	1.60	9.29	8.42	1.64	12.40	10.86	1.68	15.98	15.98	1.73	20.29	20.29	1.79	24.96	24.96	1.84
		750	4.47	4.11	1.58	6.79	6.23	1.61	9.52	8.64	1.65	12.68	11.11	1.68	16.34	16.34	1.71	21.04	21.04	1.77	25.36	25.36	1.80
		840	4.59	4.22	1.60	6.94	6.37	1.63	9.71	8.80	1.66	12.92	11.32	1.68	16.62	16.62	1.71	21.33	21.33	1.76	25.70	25.70	1.77

See Legend and Notes on Page 35.

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)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1050	57 (13.9)	34.39	34.39	2.37	32.14	32.14	2.56	29.88	29.88	2.77	27.60	27.60	2.99	25.28	25.28	3.24
	62 (16.7)	35.59	31.08	2.38	33.00	30.10	2.57	30.42	29.04	2.77	27.85	27.91	2.99	25.32	25.32	3.24
	63* (17.2)	36.08	25.33	2.39	33.45	24.43	2.57	30.80	23.49	2.77	28.15	22.54	2.99	25.46	21.55	3.24
	67 (19.4)	38.94	26.37	2.41	36.08	25.44	2.60	33.23	24.49	2.80	30.37	23.50	3.02	27.47	22.48	3.26
	72 (13.9)	42.65	21.59	2.44	39.53	20.70	2.63	36.41	19.78	2.83	33.27	18.83	3.05	30.12	17.84	3.29
	57 (13.9)	35.97	35.97	2.42	33.58	33.58	2.60	31.18	31.18	2.81	28.75	28.75	3.03	26.29	26.29	3.28
1200	62 (16.7)	36.62	33.39	2.42	33.94	32.28	2.61	31.27	31.27	2.81	28.80	28.80	3.03	26.33	26.33	3.28
	63* (17.2)	37.03	27.00	2.42	34.27	26.05	2.61	31.52	25.09	2.81	28.76	24.10	3.03	25.98	23.06	3.28
	67 (19.4)	39.95	28.16	2.45	36.97	27.19	2.63	34.00	26.20	2.83	31.02	25.17	3.05	28.01	24.11	3.30
	72 (13.9)	43.73	22.73	2.48	40.48	21.79	2.67	37.23	20.84	2.87	33.97	19.86	3.09	30.70	18.84	3.33
	57 (13.9)	37.34	37.34	2.46	34.82	34.82	2.64	32.29	32.29	2.85	29.73	29.73	3.07	27.14	27.14	3.32
	62 (16.7)	37.64	35.05	2.46	34.88	34.88	2.65	32.34	32.34	2.85	29.78	29.78	3.07	27.18	27.18	3.32
1350	63* (17.2)	37.79	28.60	2.46	34.93	27.62	2.64	32.09	26.62	2.84	29.25	25.59	3.06	26.38	24.50	3.31
	67 (19.4)	40.75	29.88	2.49	37.68	28.88	2.67	34.61	27.85	2.87	31.53	26.79	3.09	28.45	25.67	3.33
	72 (13.9)	44.59	23.79	2.52	41.23	22.83	2.71	37.88	21.85	2.90	34.52	20.84	3.12	31.15	19.79	3.36
	57 (13.9)	34.39	34.39	2.37	32.14	32.14	2.56	29.88	29.88	2.77	27.60	27.60	2.99	25.28	25.28	3.24
	62 (16.7)	35.59	31.08	2.38	33.00	30.10	2.57	30.42	29.04	2.77	27.85	27.91	2.99	25.32	25.32	3.24
	63* (17.2)	36.08	25.33	2.39	33.45	24.43	2.57	30.80	23.49	2.77	28.15	22.54	2.99	25.46	21.55	3.24

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

036 High Heat

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

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

See Legend and Notes on Page 35.

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)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
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
	62 (16.6)	25.14	23.46	1.57	23.61	22.37	1.75	22.06	21.22	1.94	20.49	20.49	2.15	18.98	18.98	2.39
	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
	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
	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
900	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
	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
	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
	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
	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
1010	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
	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
	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
	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
	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

See Legend and Notes on Page 35.

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 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	Capacity MBtuh		Total Sys KW		
		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ		Total	Integ			
65 (18.3)	785	6.33	5.82	1.76	9.00	8.26	1.78	12.07	10.95	1.80	15.61	13.68	1.82	19.82	19.82	1.84	24.39	24.39	1.86	29.08	29.08	1.87					
	900	6.46	5.95	1.77	9.17	8.41	1.78	12.30	11.15	1.80	15.89	13.92	1.80	20.50	20.50	1.83	24.73	24.73	1.83	29.54	29.54	1.82					
	1010	6.60	6.07	1.79	9.34	8.57	1.80	12.50	11.33	1.80	16.13	14.13	1.80	20.74	20.74	1.82	25.01	25.01	1.80	29.90	29.90	1.79					
70 (21.1)	785	5.88	5.41	1.84	8.54	7.84	1.86	11.62	10.54	1.88	15.14	13.27	1.90	19.18	19.18	1.93	24.04	24.04	1.96	28.64	28.64	1.97					
	900	6.03	5.55	1.86	8.74	8.02	1.87	11.86	10.76	1.88	15.44	13.53	1.89	19.59	19.59	1.90	24.36	24.36	1.92	29.09	29.09	1.92					
	1010	6.16	5.67	1.87	8.90	8.17	1.88	12.06	10.94	1.89	15.68	13.74	1.89	19.96	19.96	1.90	24.64	24.64	1.90	29.44	29.44	1.89					
75 (23.9)	785	5.38	4.95	1.92	8.06	7.40	1.95	11.13	10.10	1.97	14.65	12.84	1.99	18.65	18.65	2.02	23.65	23.65	2.07	28.19	28.19	2.08					
	900	5.53	5.09	1.94	8.25	7.58	1.96	11.38	10.32	1.97	14.94	13.09	1.98	19.03	19.03	2.00	23.99	23.99	2.02	28.63	28.63	2.02					
	1010	5.66	5.21	1.96	8.41	7.72	1.97	11.58	10.50	1.98	15.19	13.31	1.98	19.33	19.33	1.99	24.27	24.27	2.00	28.98	28.98	1.99					

See Legend and Notes on Page 35.

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)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1225	57 (13.9)	42.15	42.15	2.91	39.67	39.67	3.15	37.10	37.10	3.43	34.44	34.44	3.74	31.67	31.67	4.09
	62 (16.7)	43.66	37.75	2.91	40.79	36.21	3.16	37.82	34.59	3.43	34.81	32.83	3.74	31.72	31.72	4.09
	63* (17.2)	44.22	30.75	2.92	41.29	29.38	3.16	38.26	27.98	3.44	35.13	26.53	3.75	31.92	25.05	4.09
	67 (19.4)	47.58	31.92	2.93	44.40	30.51	3.17	41.12	29.05	3.45	37.74	27.56	3.76	34.27	26.03	4.11
	72 (13.9)	51.88	26.10	2.94	48.39	24.77	3.19	44.80	23.40	3.48	41.12	22.00	3.79	37.36	20.56	4.13
1400	57 (13.9)	44.00	44.00	2.96	41.36	41.36	3.20	38.61	38.61	3.48	35.76	35.76	3.79	32.82	32.82	4.14
	62 (16.7)	44.86	40.47	2.96	41.88	38.78	3.20	38.84	36.91	3.48	35.83	35.83	3.79	32.87	32.87	4.14
	63* (17.2)	45.32	32.69	2.96	42.25	31.27	3.21	39.08	29.80	3.48	35.82	28.30	3.79	32.48	26.75	4.13
	67 (19.4)	48.76	34.00	2.97	45.44	32.52	3.22	42.00	31.00	3.50	38.47	29.45	3.81	34.87	27.85	4.15
	72 (13.9)	53.13	27.39	2.99	49.49	26.01	3.24	45.74	24.58	3.52	41.91	23.13	3.84	38.00	21.64	4.18
1575	57 (13.9)	45.59	45.59	3.00	42.79	42.79	3.25	39.89	39.89	3.53	36.89	36.89	3.84	33.78	33.78	4.18
	62 (16.7)	45.93	42.90	3.01	42.88	42.88	3.25	39.95	39.95	3.53	36.94	36.94	3.84	33.83	33.83	4.18
	63* (17.2)	46.20	34.55	3.01	43.02	33.07	3.25	39.73	31.55	3.53	36.36	29.98	3.84	32.93	28.36	4.18
	67 (19.4)	49.71	36.01	3.02	46.25	34.46	3.27	42.69	32.88	3.55	39.04	31.27	3.86	35.34	29.58	4.20
	72 (13.9)	54.13	28.61	3.04	50.36	27.18	3.29	46.48	25.71	3.57	42.52	24.21	3.88	38.49	22.67	4.22

See Legend and Notes on Page 35.

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)		
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)	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)				
EDB ° F (° C)	CFM	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Total Sys KW	
		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	3.66
	1400	31.04	27.20	2.98	37.35	37.35	3.14	44.96	44.96	3.33	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	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	3.81
	1400	30.63	26.84	3.11	36.81	36.81	3.27	44.28	44.28	3.47	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	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	3.96
	1400	30.23	26.49	3.24	36.26	36.26	3.40	43.56	43.56	3.61	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	3.87

See Legend and Notes on Page 35.

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)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
CFM	EWB	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
	62 (16.6)	30.35	27.95	1.89	29.81	27.74	2.00	29.02	27.38	2.13	28.00	28.00	2.27	26.92	26.92	2.41
	63* (17.2)	30.73	22.60	1.89	30.17	22.37	2.00	29.34	22.03	2.13	28.23	21.62	2.27	26.79	21.11	2.41
	67 (19.4)	33.18	23.50	1.86	32.56	23.25	1.98	31.66	22.90	2.10	30.47	22.48	2.24	28.92	21.95	2.38
	72 (22.2)	36.31	19.06	1.83	35.62	18.72	1.95	34.66	18.28	2.07	33.38	17.76	2.20	31.75	17.14	2.35
	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
1050	62 (16.6)	31.19	29.95	1.92	30.63	29.64	2.03	29.90	29.90	2.15	29.06	29.06	2.28	27.91	27.91	2.42
	63* (17.2)	31.46	24.07	1.91	30.84	23.84	2.03	29.94	23.52	2.15	28.76	23.12	2.29	27.23	22.59	2.44
	67 (19.4)	33.99	25.06	1.89	33.28	24.83	2.00	32.32	24.48	2.13	31.03	24.06	2.26	29.41	23.54	2.41
	72 (22.2)	37.17	20.01	1.86	36.41	19.66	1.97	35.37	19.22	2.09	34.01	18.69	2.23	32.28	18.07	2.37
	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
	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
1180	63* (17.2)	32.02	25.41	1.94	31.34	25.20	2.06	30.40	24.88	2.18	29.15	24.46	2.31	27.58	23.93	2.46
	67 (19.4)	34.59	26.49	1.92	33.84	26.29	2.03	32.80	25.94	2.15	31.47	25.52	2.29	29.77	24.97	2.43
	72 (22.2)	37.82	20.86	1.89	37.00	20.51	2.00	35.90	20.07	2.12	34.47	19.54	2.25	32.66	18.91	2.39

See Legend and Notes on Page 35.

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	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 35.

PERFORMANCE DATA (CONT)

048 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	Capacity MBtuh		Total Sys KW			
CFM	EWB	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	Sens	Total	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						
1800	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						
	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 35.

PERFORMANCE DATA (CONT)

048 High Heat

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

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)									
EDB °F (°C)	CFM	30 (-1.1)		40 (-4.4)		50 (10)		60 (15.6)		Total Sys KW	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)	1400	35.53	31.13	41.86	34.3	49.38	36.9	57.39	45.7	3.69	3.97
	1600	35.92	31.48	42.35	34.0	49.83	36.2	56.49	45.2	3.62	3.90
	1800	36.26	31.77	42.74	34.0	49.29	36.1	55.21	44.7	3.61	3.87
70 (21.1)	1400	35.05	30.71	41.24	35.8	48.65	38.5	56.80	45.3	3.85	4.15
	1600	35.46	31.07	41.74	35.5	49.26	38.0	56.11	44.8	3.80	4.07
	1800	35.80	31.37	42.14	35.5	49.00	37.7	55.02	44.3	3.77	4.04
75 (23.9)	1400	34.59	30.31	40.64	37.5	47.91	40.3	56.18	44.8	4.03	4.33
	1600	34.97	30.64	41.13	37.1	48.49	39.8	55.71	44.3	3.98	4.26
	1800	35.31	30.94	41.53	37.0	48.62	39.4	54.73	43.8	3.94	4.23

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

048 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																	
CFM	EWB	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
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	32.36	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
1200	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
	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	30.39	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	32.82	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	36.01	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	30.64	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	33.08	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	36.28	20.89	2.80	33.60	20.03	2.97

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

048 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 (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 35.

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	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	Sens	Total	Sens	Total		Sens	Total	Sens		Total	Sens	Total		Sens	Total	Sens		Total	Sens	Total		Sens	Total	Sens	
CFM	EWB																								
1750																									
2000																									
2250																									

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

060 High Heat

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

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

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

060 Low Cool

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																		
CFM	EWB	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)			Total Sys KW
		Capacity MBtuh	Total	Sens	Capacity MBtuh	Total	Sens	Capacity MBtuh	Total	Sens	Capacity MBtuh	Total	Sens	Capacity MBtuh	Total	Sens	Capacity MBtuh	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 35.

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	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	2.99	34.90	34.90	3.04	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	2.95	35.33	35.33	2.98	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	2.94	35.61	35.61	2.96	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	3.11	34.46	34.46	3.21	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	3.08	34.88	34.88	3.15	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	3.07	35.15	35.15	3.12	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	3.27	34.00	34.00	3.39	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	3.23	34.45	34.45	3.33	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	3.22	34.71	34.71	3.30	40.72	40.72	3.34	47.63	47.63	3.39

See Legend and Notes on Page 35.

PERFORMANCE DATA (CONT)

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

LEGEND

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

COOLING NOTES:

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

$$t_{ldb} = t_{edb} - \frac{\text{Sensible capacity (Btuh)}}{1.10 \times \text{cfm}}$$
$$t_{lwb} = \text{Wet-bulb temperature corresponding to enthalpy of air leaving evaporator coil (} t_{lwb} \text{)}$$

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 x (1 + BF) x (edb – 80).

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

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

Multiplication Factors

HEATER KW RATING		VOLTAGE DISTRIBUTION V/3/60				MULTIPLICATION FACTOR			
240						200			0.69
						208			0.75
						230			0.92
						240			1.00

Dry Coil Air Delivery* - Horizontal and Downflow Discharge - Unit 607E--A24-60 208/230 VAC Models

UNIT	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	1.0
607E--A24	Low ¹	Blue	CFM	777	692	583	465	318					
			BHP	0.09	0.10	0.10	0.11	0.12					
	Med-Low	Pink	CFM	877	779	698	598	519	410				
			BHP	0.12	0.12	0.13	0.14	0.15	0.15				
	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			
	Med-High	Orange	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
	High	Black	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
	Low	Blue	CFM	777	692	583	465	318					
			BHP	0.09	0.10	0.10	0.11	0.12					
607E--A30	Med-Low ¹	Pink	CFM	831	765	670	586	466	299				
			BHP	0.11	0.12	0.12	0.13	0.13	0.14				
	Medium ²	Red	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
	Med-High	Orange	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
	High	Black	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
	Low	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	0.13	0.14	0.15	0.16
	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	0.14	0.15	0.16	0.17
607E--A36	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	0.28	0.29
	Med-High	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	0.38	0.39
	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	0.40	0.41

Dry Coil Air Delivery* - Horizontal and Downflow Discharge (CONT)- Unit 607E---A24-60 208/230 VAC Model

UNIT	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	1.0
607E--A42	Low	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	0.13	0.14	0.15	0.16
	Med-Low ¹	Pink	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
	Medium	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	0.28	0.29
	Med-High ²	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	0.38	0.39
	High	Black	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
607E--A48	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
	Med-Low	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
	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
	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
	High	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
607E--A60	Low	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
	Med-Low ¹	Pink	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	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	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
	High	Black	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

* Air delivery values are without air filter and are for dry coil (See 607E -- A Wet Coil Pressure Drop table).

1 Factory--shipped low stage cooling speed.

2 Factory--shipped high stage cooling speed.

Note: Duct field--supplied air filter pressure drop and wet coil pressure drop to obtain external static pressure available for ducting.

Shaded areas indicate acceptable Dehum. Speeds (Dehum. Mode is High Stage Only, 208/230 VAC Models Only).

Dry Coil Air Delivery* - Horizontal and Downflow Discharge - Unit 607E---A36-60 460VAC Models

UNIT	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	1.0
607E--A36	Low ¹	Blue	CFM	864	810	745	698	649	571	525	486	428
			BHP	0.10	0.10	0.12	0.13	0.14	0.14	0.15	0.16	0.17
	Med-Low	Pink	CFM	1076	1026	972	918	872	827	771	714	666
			BHP	0.13	0.14	0.15	0.15	0.17	0.18	0.20	0.21	0.22
	Medium	Red	CFM	1213	1169	1110	1065	1016	964	923	878	820
			BHP	0.16	0.17	0.17	0.19	0.20	0.21	0.22	0.23	0.25
	Med-High ²	Orange	CFM	1251	1198	1149	1104	1066	1017	970	932	892
			BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.29
	High	Black	CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130
			BHP	0.29	0.30	0.31	0.32	0.35	0.35	0.36	0.37	0.39
607E--A42	Low ¹	Blue	CFM	1076	1026	972	918	872	827	771	714	666
			BHP	0.13	0.14	0.15	0.15	0.17	0.18	0.18	0.20	0.22
	Med-Low	Pink	CFM	1213	1169	1110	1065	1016	964	923	878	820
			BHP	0.16	0.17	0.17	0.19	0.20	0.21	0.22	0.23	0.24
	Medium	Red	CFM	1251	1198	1149	1104	1066	1017	970	932	892
			BHP	0.19	0.21	0.21	0.23	0.24	0.25	0.26	0.27	0.29
	Med-High ²	Orange	CFM	1451	1415	1372	1327	1287	1249	1212	1168	1130
			BHP	0.29	0.30	0.31	0.32	0.35	0.35	0.36	0.37	0.39
	High	Black	CFM	1633	1590	1552	1518	1483	1444	1406	1372	1340
			BHP	0.41	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.53
607E--A48	Low ¹	Blue	CFM	1271	1229	1177	1121	1066	1027	974	942	887
			BHP	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27	0.29
	Med-Low	Pink	CFM	1340	1299	1240	1191	1139	1091	1050	1001	952
			BHP	0.22	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.32
	Medium ²	Red	CFM	1686	1650	1617	1576	1544	1503	1468	1433	1393
			BHP	0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.55
	Med-High	Orange	CFM	1854	1837	1781	1784	1720	1698	1655	1625	1578
			BHP	0.56	0.57	0.60	0.59	0.62	0.63	0.64	0.66	0.67
	High	Black	CFM	2131	2088	2065	2013	1982	1941	1888	1860	1785
			BHP	0.72	0.74	0.75	0.77	0.79	0.80	0.81	0.81	0.79

Dry Coil Air Delivery* - Horizontal and Downflow Discharge - Unit 607E-A36-60 460VAC Models

UNIT	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	1.0
607E--A60	Low	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
		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	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
		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	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

* Air delivery values are without air filter and are for dry coil (See 607E --- A Wet Coil Pressure Drop table).

¹ Factory--shipped low stage cooling speed.

2 Factory--shipped high stage cooling speed.

Note: Ductwork field-supplied air filter pressure drop and wet coil pressure drop to obtain external static pressure available for ducting.

Table 1 – 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
600-1400CFM 12x20x1+12x20x1 (305x508x25+305x508x25)	2.0, 2.5	0.03	0.05	0.06	0.08	0.10	0.11	0.13	0.14	0.16	-	-	-	-	-	-	-	-
1200-1800 CFM 16x24x1+14x24x1 (406x610x25+356x610x25)	3.0, 3.5	-	-	-	-	-	-	0.07	0.08	0.09	0.09	0.10	0.11	0.12	-	-	-	-
1500-2200 CFM 16x24x1+18x24x1 (406x610x25+457x610x25)	4.0 5.0	-	-	-	-	-	-	-	-	-	0.04	0.06	0.08	0.10	0.11	0.13	0.14	0.15

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

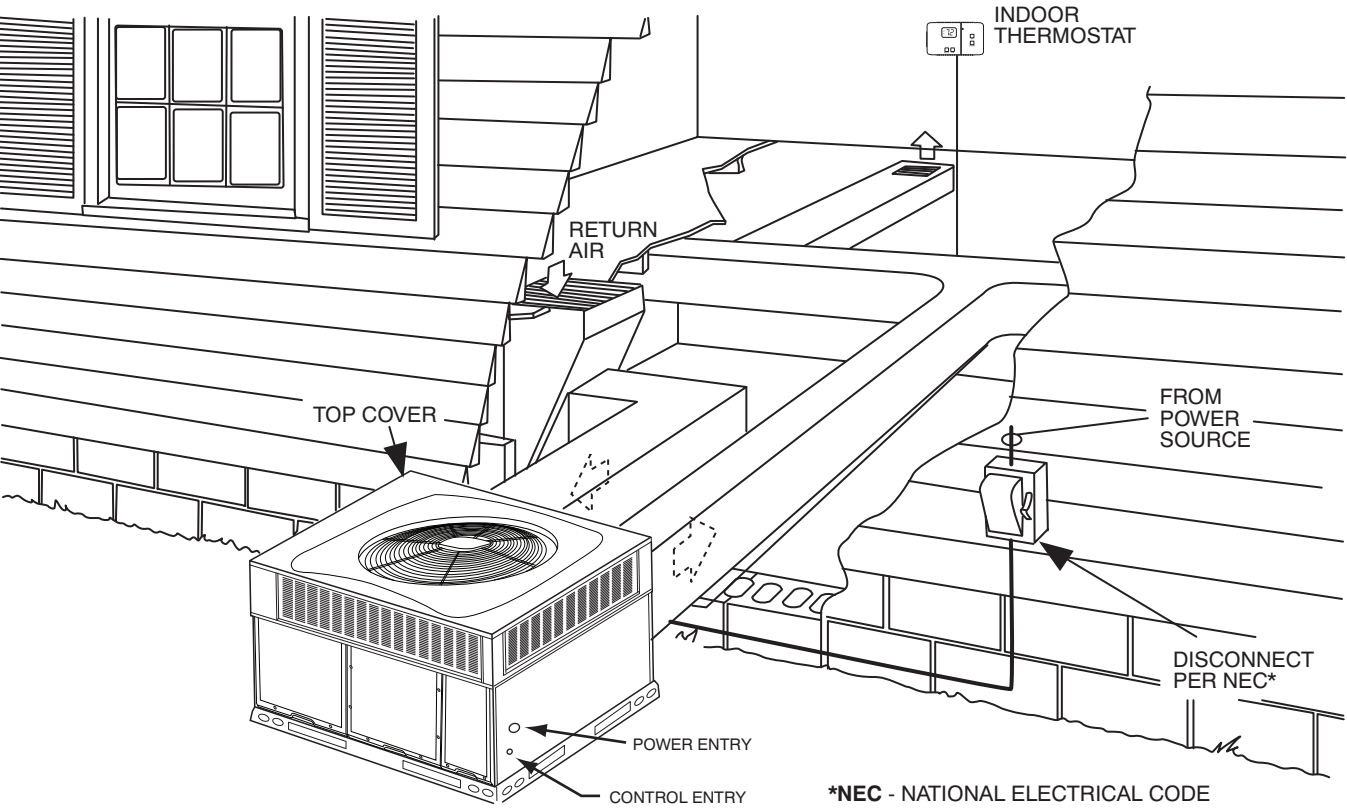
UNIT SIZE	STANDARD CFM (SCFM)																
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
24	0.03	0.04	0.05	0.06	0.07												
30				0.06	0.07	0.07	0.08	0.09									
36				0.06	0.07	0.08	0.09	0.10	0.11								
42					0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.12					
48							0.03	0.04	0.08	0.08	0.10	0.11	0.14	0.15	0.16		
60									0.08	0.08	0.10	0.11	0.14	0.15	0.16	0.16	

607E--A

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	
600-1400CFM 12x20x1+12x20x1 (305x508x25+305x508x25)	2.0, 2.5	-	-	0.09	0.14	0.16	0.18	0.25	0.28	0.3	-	-	-	-	-	-	-	-	
1200-1800 CFM 16x24x1+14x24x1 (406x610x25+356x610x25)	3.0, 3.5	-	-	-	-	-	-	0.10	0.11	0.12	0.13	0.14	0.16	0.16	-	-	-	-	
1500-2200 CFM 16x24x1+18x24x1 (406x610x25+457x610x25)	4.0 5.0	-	-	-	-	-	-	-	-	-	0.15	0.17	0.18	0.20	0.21	0.22	0.23	0.23	

TYPICAL PIPING AND WIRING



607E--A

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 downflow openings. Removal of the inserts is similar to removing an electrical knock-out.

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).

ELECTRICAL DATA

UNIT	NOMINAL	VOLTAGE RANGE		COMPRESSOR		OFM	IFM	ELECTRIC HEAT		POWER SUPPLY	
		MIN	MAX	RLA	LRA	FLA	FLA	NOMINAL kW	FLA	MCA	MOCP
607ENXA24	208/230-1-60	197	253	11.7	58.3	0.6	4.1	-/-	-/-	19.3	30
								3.8/5	18.1/20.8	42/45.3	45/50
								5.4/7.2	25.9/30	51.7/56.8	60/60
								7.5/10	36.1/41.7	64.5/71.5	70/80
607ENXA30	208/230-1-60	197	253	13.1	73.0	0.9	4.1	-/-	-/-	21.7	30
								3.8/5	18.1/20.8	44/47.4	45/50
								5.4/7.2	25.9/30	53.8/58.9	60/60
								7.5/10	36.1/41.7	66.5/73.5	70/80
607EPXA30	208/230-3-60	197	253	8.7	58.0	0.9	4.1	11.3/15	54.2/62.5	89.1/99.5	90/100
								-/-	-/-	16.2	20
								3.8/5	10.4/12	28.9/30.9	30/35
								7.5/10	20.8/24.1	41.9/46	45/50
607ENXA36	208/230-1-60	197	253	15.3	83.0	1.2	6.0	11.3/15	31.2/36.1	54.9/61	60/70
								-/-	-/-	26.3	40
								3.8/5	18.1/20.8	49/52.3	50/60
								5.4/7.2	25.9/30	58.7/63.8	60/70
607EPXA36	208/230-3-60	197	253	11.6	73.0	1.2	6.0	7.5/10	36.1/41.7	71.5/78.5	80/80
								11.3/15	54.2/62.5	94.1/104.5	100/110
								-/-	-/-	21.7	30
								3.8/5	10.4/12	34.7/36.7	35/40
607EEXA36	460-3-60	414	506	5.7	38.0	0.53	3.2	7.5/10	20.8/24.1	47.7/51.8	50/60
								11.3/15	31.2/36.1	60.7/66.8	70/70
								-/-	-/-	10.8	15
								10	12	25.9	30
607ENXA42	208/230-1-60	197	253	20.4	96.0	1.2	6.0	15	18	33.4	35
								-/-	-/-	32.7	45
								3.8/5	18.1/20.8	55.3/58.7	60/60
								5.4/7.2	25.9/30	65.1/70.2	70/80
607EPXA42	208/230-3-60	197	253	14.2	88.0	1.2	6.0	7.5/10	36.1/41.7	77.8/84.8	80/90
								11.3/15	54.2/62.5	100.5/110.8	110/125
								15/20	72.2/83.3	123/136.8	125/150
								-/-	-/-	25	35
607EEXA42	460-3-60	414	506	6.4	44.0	0.53	3.2	3.8/5	10.4/12	38/40	40/40
								7.5/10	20.8/24.1	51/55.1	60/60
								11.3/15	31.2/36.1	64/70.1	70/80
								15/20	41.4/47.9	76.7/84.8	80/90
607ENXA48	208/230-1-60	197	253	21.2	104.0	1.2	7.6	-/-	-/-	11.7	15
								10	12	26.7	30
								15	18	34.2	35
								20	24.1	41.9	45
607EPXA48	208/230-3-60	197	253	14.0	83.1	1.2	7.6	-/-	-/-	35.3	50
								3.8/5	18.1/20.8	57.9/61.3	60/70
								5.4/7.2	25.9/30	67.7/72.8	70/80
								7.5/10	36.1/41.7	80.4/87.4	90/90
607EEXA48	460-3-60	414	506	6.4	41.0	0.53	4.0	11.3/15	54.2/62.5	103.1/113.4	110/125
								15/20	72.2/83.3	125.6/139.4	150/150
								-/-	-/-	26.3	40
								3.8/5	10.4/12	39.3/41.3	40/45
607EPXA48	208/230-3-60	197	253	14.0	83.1	1.2	7.6	7.5/10	20.8/24.1	52.3/56.4	60/60
								11.3/15	31.2/36.1	65.3/71.4	70/80
								15/20	41.4/47.9	78.1/86.2	80/90
								-/-	-/-	12.5	15
607EEXA48	460-3-60	414	506	6.4	41.0	0.53	4.0	10	12	27.5	30
								15	18	35	35
								20	24.1	42.7	45
								-/-	-/-	12.5	15

607E--A

ELECTRICAL DATA (CONT)

UNIT	NOMINAL	VOLTAGE RANGE		COMPRESSOR		OFM	IFM	ELECTRIC HEAT		POWER SUPPLY	
		MIN	MAX	RLA	LRA	FLA	FLA	NOMINAL kW	FLA	MCA	MOCP
607ENXA60	208/230-1-60	197	253	28.8	152.9	1.2	7.6	-/-	-/-	44.8	60
								3.8/5	18.1/20.8	67.4/70.8	70/80
								5.4/7.2	25.9/30	77.2/82.3	80/90
								7.5/10	36.1/41.7	89.9/96.9	90/100
								11.3/15	54.2/62.5	112.6/122.9	125/125
607EPXA60	208/230-3-60	197	253	16.2	110.0	1.2	7.6	15/20	72.2/83.3	135.1/148.9	150/150
								-/-	-/-	29.1	40
								3.8/5	10.4/12	42.1/44.1	45/45
								7.5/10	20.8/24.1	55.1/59.2	60/60
								11.3/15	31.2/36.1	68.1/74.2	70/80
607EEXA60	460-3-60	414	506	7.6	52.0	0.53	4.0	15/20	41.4/47.9	80.8/88.9	90/90
								-/-	-/-	14	20
								10	12	29	30/30
								15	18	36.5	40/40
								20	24.1	44.2	45/45

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

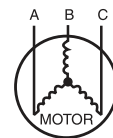
NOTES:

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.

A06564

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

UNIT COMPONENT ARRANGEMENT

SCHEMATIC 208/230V-1-60

LEGEND

- FIELD SPICE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- SPLICE
- SPLICE (MARKED)
- FACTORY LO VOLTAGE
- FACTORY HI VOLTAGE
- C: CAPACITOR
- CCH: CRANKCASE HEATER
- CHS: CRANKCASE HEATER SWITCH
- COMP: COMPRESSOR MOTOR
- CTD: COMPRESSOR TIME DELAY
- DH: DEHUM
- DB: DEFROST BOARD
- DFT: DEFROST TEMPERATURE SWITCH
- DR: DEFROST RELAY
- GND: GROUND
- HPS: HIGH PRESSURE SWITCH
- HR: HEATER RELAY
- IFB: INDOOR FAN BOARD
- IFM: INDOOR FAN MOTOR
- LPS: LOW PRESSURE SWITCH
- OFM: OUTDOOR FAN MOTOR
- RVS: REVERSING VALVE
- SOL: COMPRESSOR SOLENOID
- TRAN: TRANSFORMER
- T-STAT: THERMOSTAT

NOTES:

- IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED IT MUST BE REPLACED WITH THE SAME 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.
- RELOCATION OF SPEED TAPS MAY BE REQUIRED WHEN USING FIELD INSTALLED ELECTRIC HEATERS. CONSULT INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED TAP SETTING.
- "DO NOT DISCONNECT PLUG UNDER LOAD".
- THIS FUSE IS MANUFACTURED BY LITTLE FUSE, P/N 287003.

A13144

607E--A

SCHEMATIC 208/230V-3-60



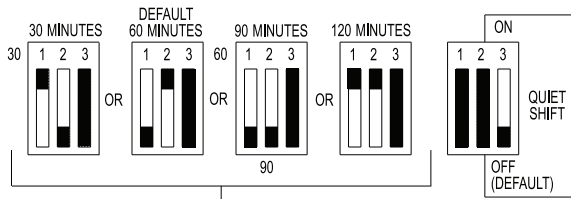
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LADDER WIRING DIAGRAM 208/230-3-60 (CONT)

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

DIP SWITCH SETTINGS



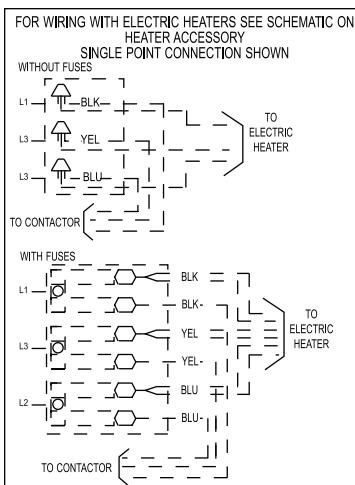
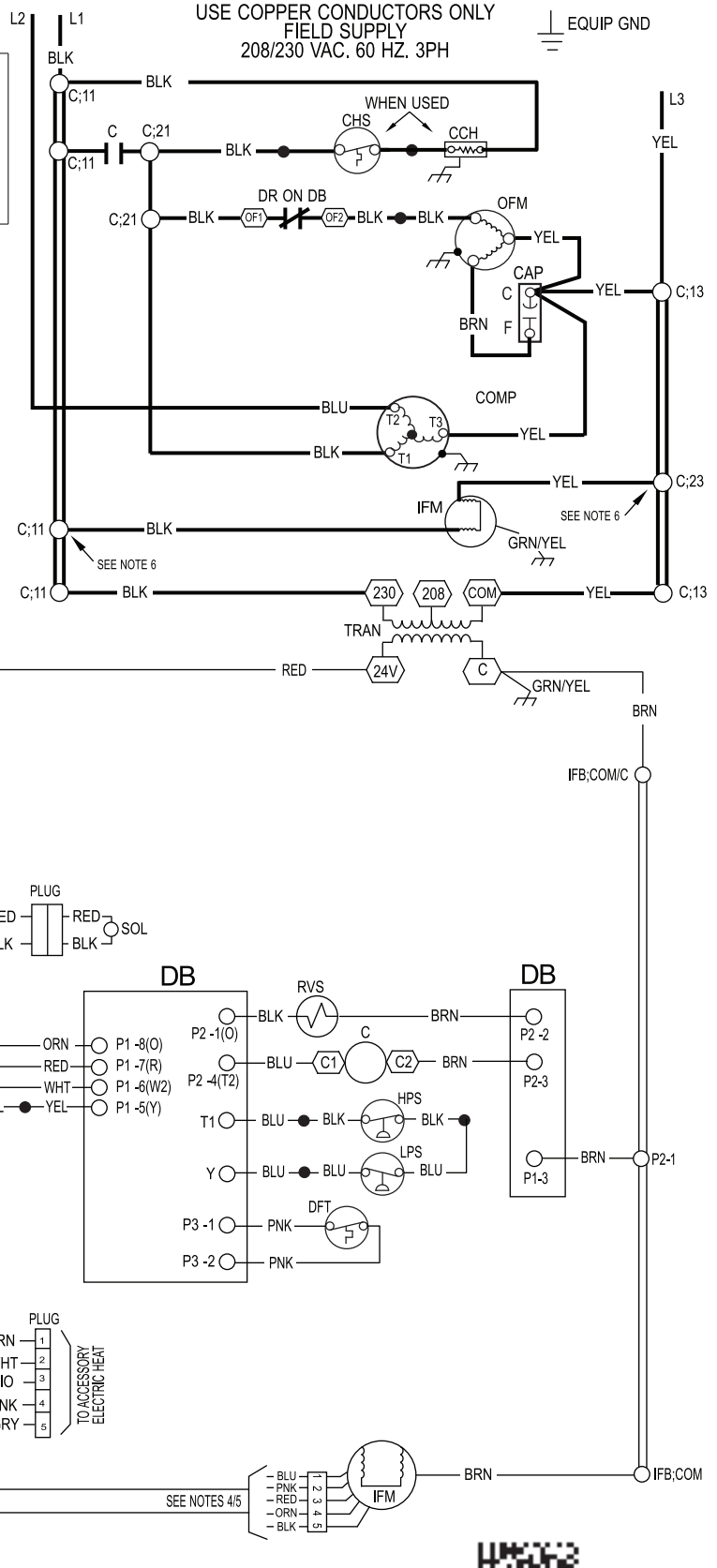
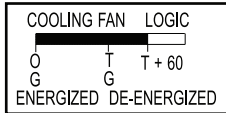
FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)

SPEED UP ☐ JUMPED TEST PINS (USE METAL OBJECT) FIELD SPEED-UP CYCLE

- 1) MOMENTARILY SHORT PINS AND RELEASE TO BYPASS COMPRESSOR OFF DELAY.
- 2) SHORT FOR 5+ SEC. AND RELEASE FOR FORCED DEFROST.
- 3) PERMANENT SHORT WILL BE IGNORED.

DEFROST WILL TERMINATE IN 30 SEC. IF DFT OPEN.
DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

THE COMPRESSOR WILL SHUT OFF FOR 30 SEC. ON DEFROST INITIATION AND TERMINATION IN THE "QUIET SHIFT" ON POSITION.



50VR500010 REV. -

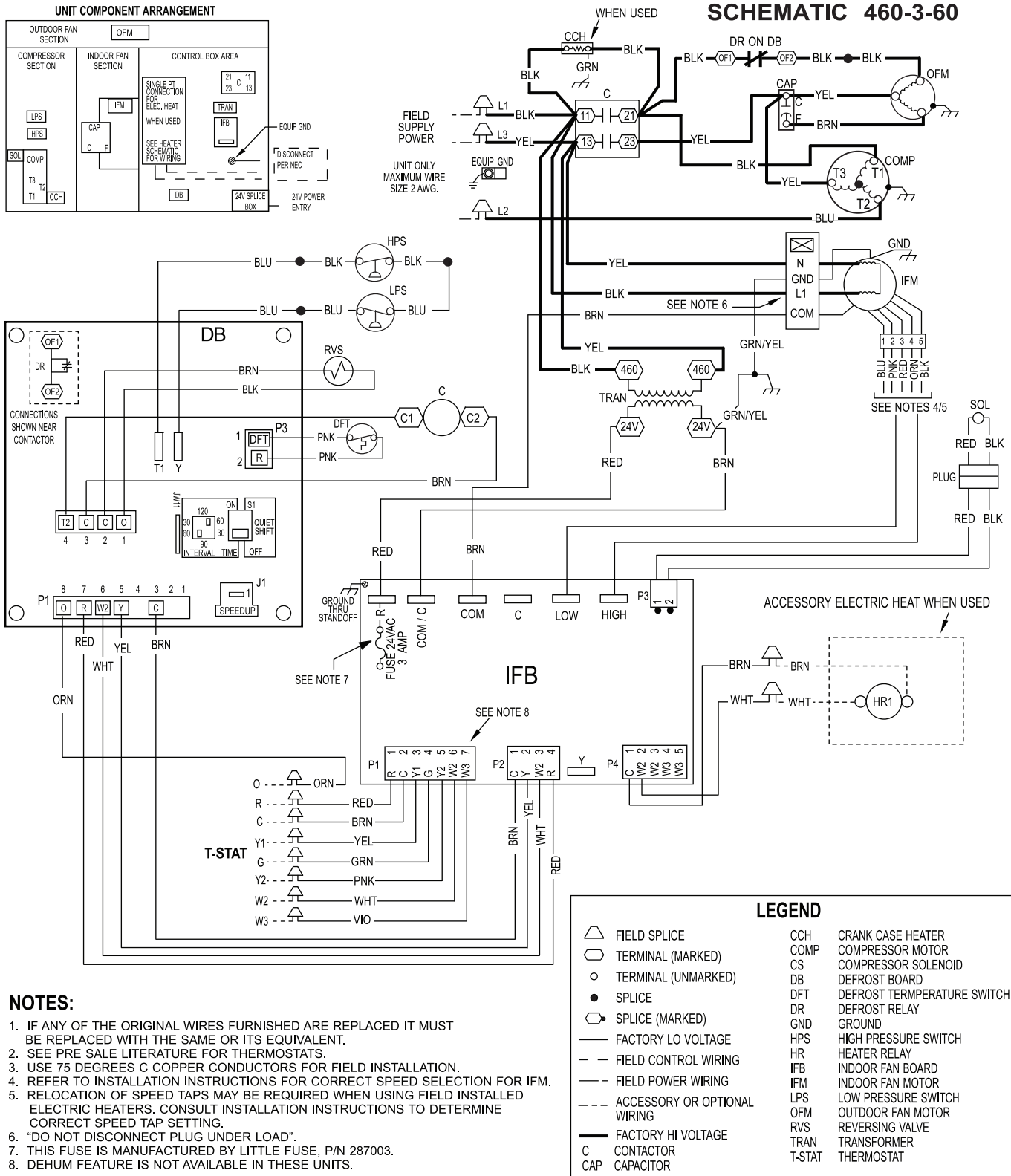


CONNECTION WIRING DIAGRAM 460-3-60

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

SCHEMATIC 460-3-60



607E--A

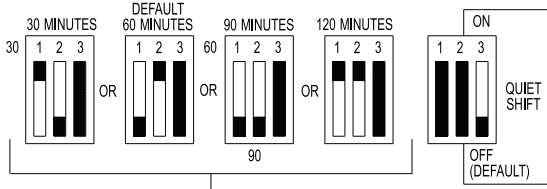
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LADDER WIRING DIAGRAM 460-3-60 (CONT)

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

DIP SWITCH SETTINGS



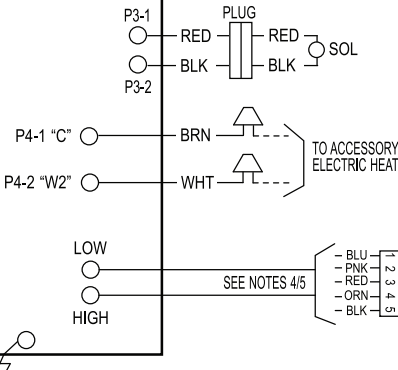
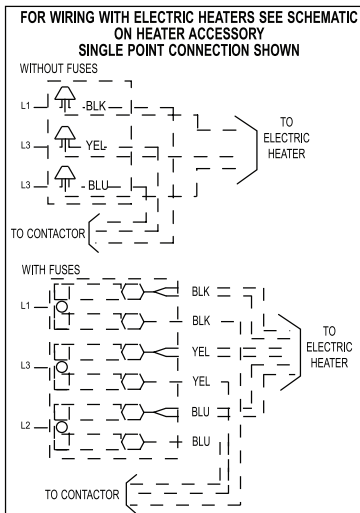
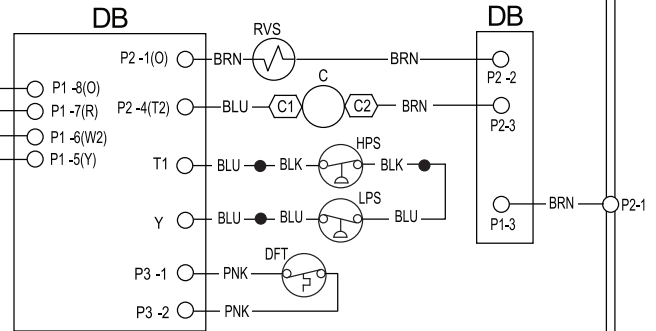
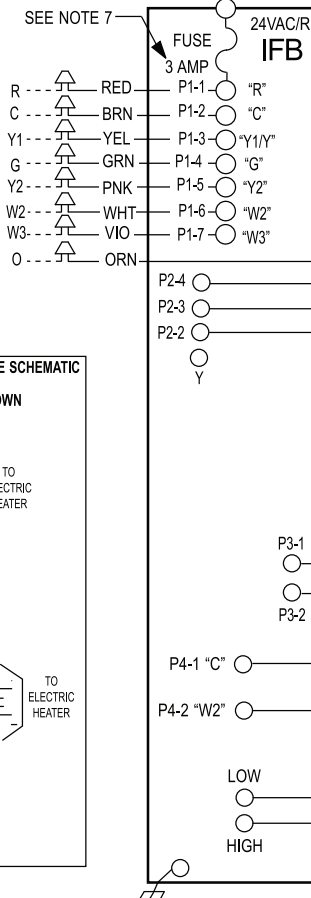
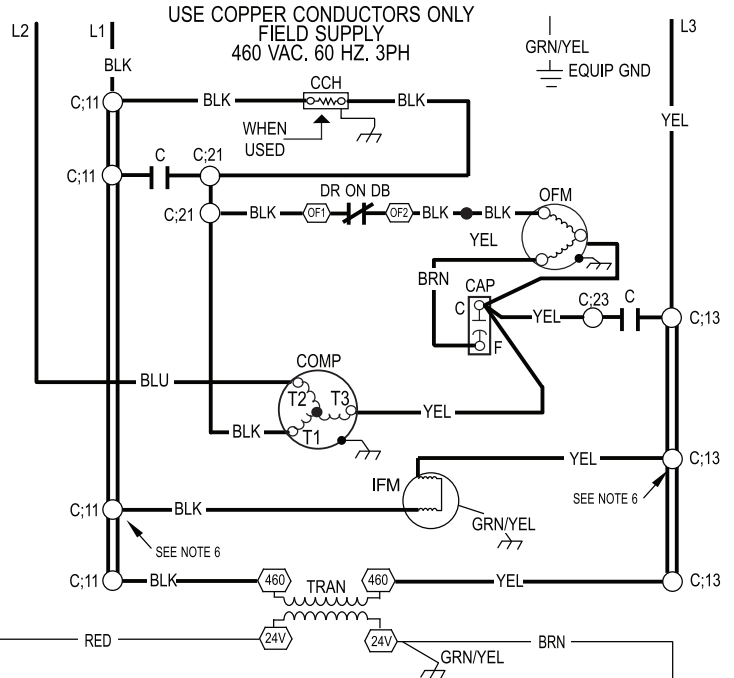
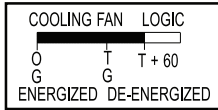
FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)

SPEED UP ☐ JUMPED TEST PINS (USE METAL OBJECT) FIELD SPEED-UP CYCLE

- 1) MOMENTARILY SHORT PINS AND RELEASE TO BYPASS COMPRESSOR OFF DELAY.
- 2) SHORT FOR 5+ SEC. AND RELEASE FOR FORCED DEFROST.
- 3) PERMANENT SHORT WILL BE IGNORED.

DEFROST WILL TERMINATE IN 30 SEC. IF DFT OPEN.
 DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

THE COMPRESSOR WILL SHUT OFF FOR 30 SEC. ON DEFROST INITIATION AND TERMINATION IN THE "QUIET SHIFT" ON POSITION.



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CONTROLS

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. Electric Heating Mode

- (1.) Thermostat closes circuit R to W2 or W3, and R to G. There are no on or off delays.

d. Heat Pump Heating

- (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.

e. Heat Pump Heating with Auxiliary Heat

- (1.) Thermostat closes circuits R to G, R to Y and R to W/W1 or W2. The compressor, indoor and outdoor fans are energized, as well as the electric heat relays.

f. Defrost Mode

The defrost mode is automatically energized by the defrost board during heating mode. The defrost board energizes “O” (reversing valve) and “W2” (electric heat). It also de-energizes the outdoor fan. 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.

607E--A

GUIDE SPECIFICATIONS

Packaged Air Conditioner System Constant Volume Application HVAC Guide Specifications

Size Range: **2 to 5 Tons, Nominal Cooling**

Model Number: 607E--A

Part 1 — General

SYSTEM DESCRIPTION

Outdoor rooftop mounted or ground mounted, electric cooling unit utilizing a hermetic 2-stage scroll compressor for cooling duty. Unit shall discharge supply air vertically or horizontally as shown on contract drawings. Condenser 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.**
- B. Unit shall be designed in accordance with UL Standard 1995.**
- 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 90A requirements for flame spread and smoke generation.**
- G. Cabinet insulation shall meet ASHRAE Standard 62P.**

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 a single removable cabinet panel.
- 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 ECM Blower Motor.
- 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. 2-Stage scroll compressor 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. Refrigerant Components:

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

G. Filters:

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

H. 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.

I. 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 90-second fan time delay after the thermostat is satisfied.

J. Electrical Requirements:

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

K. 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.

L. Special Options/Kits Available:

- 1. Coil Options:
Base unit with tin plated indoor coil hairpins.
- 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 2-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.

GUIDE SPECIFICATIONS (CONT)

- a. Economizer controls capable of providing free cooling using outside air.
 - b. Equipped with low leakage dampers not to exceed 3% leakage, at 1.0 IN. W.C. pressure differential.
 - c. Spring return motor shuts off outdoor damper on power failure.
6. Electric Heaters:
- a. Electric heater shall be available as a field-installed option.
 - b. Heater elements shall be open wire type, adequately supported and insulated with ceramic bushings.
 - c. Electric heater packages must provide single point power connection capability.
7. Filter Rack Option or Kit:
Shall provide filter mounting for downflow applications. Offered as an accessory or a factory installed option.
8. Flat Roof Curb Kit:
Curbs shall have seal strip and a wood nailer for flashing and shall be installed per manufacturer's instructions.
9. 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 (-17.7°C) outdoor ambient temperature when properly installed.
10. 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.
11. Square-To-Round Duct Transitions Kit (24-48 size):
Shall have the ability to convert the supply and return openings from rectangular to round.
12. Dual Point Electric Heaters Kit
Allows you to power the electric heater and unit contactor separately by having two individual field power supply circuits connected respectively.

