PDD3, PDS3
Product Specifications

13 SEER PACKAGE DUAL FUEL HEAT PUMP, 2 to 5 TONS
Single Phase, 208/230 V, 60 Hz

REFRIGERATION CIRCUIT
- Environmentally sound R-410A refrigerant
- Scroll compressor standard on all models
- Copper tube/aluminum fin condenser and evaporator coils
- Dehumidification mode (airflow reduction) on all models

EASY TO INSTALL AND SERVICE
- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications
- Combination gas heating, heat pump heating, and electric cooling
- Low NOx units available

BUILT TO LAST
- Induced-draft combustion and venting
- Pre-painted steel cabinet
- Direct spark ignition
- High efficiency ECM indoor blower motor on all models
- Aluminized steel tubular heat exchanger on PDD3 models, Stainless Steel tubular heat exchanger on PDS3 models
- Tin-coated evaporator coil standard on PDS models (not available on PDD models).
- Hail guard (3/8" spacing) wire grilles standard on PDS models (2" spacing wire grilles on PDD models)
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor
- PDS3 models come with tin-coated copper evaporator coil standard

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EFFICIENCY RATING CERTIFIED Gama

WARRANTY*
- 1 year No Hassle Replacement™ limited warranty for PDS3 models
- 10 year heat exchanger limited warranty for PDD3, Lifetime heat exchanger limited warranty for PDS3 models
- 5 year parts limited warranty (including compressor and coils)
  - With timely registration, an additional 5 year parts limited warranty (including compressor and coils)

*Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.

UNIT PERFORMANCE DATA

Aluminized Steel Heat Exchanger	Stainless Steel Heat Exchanger	COOLING Capacity BTU/h	SEER	EER	HEAT PUMP HEATING Capacity BTU/h	HSPF	GAS HEATING Input BTU/h	Efficiency AFUE %	Unit Dimensions Height x Width x Depth in (mm)	Operating Weight lbs (kg)
PDD324040K00*C	PDS324040KGP*C	23,800	13.5	11.5	23,400	7.7	40,000	80.0	$42x48^{3}/_{16}x32^{5}/_{8}$ (1065x1224x829)	352 (159)
PDD324060K00*C	PDS324060KGP*C	23,800	13.5	11.5	23,400	7.7	60,000	80.0	$42x48^{3}/_{16}x32^{5}/_{8}$ (1065x1224x829)	352 (159)
PDD330040K00*C	PDS330040KGP*C	29,000	13.5	11.5	29,000	7.7	40,000	80.0	$42x48^{3}/_{16}x32^{5}/_{8}$ (1065x1224x829)	365 (165)
PDD330060K00*C	PDS330060KGP*C	29,000	13.5	11.5	29,000	7.7	60,000	80.0	$42x48^{3}/_{16}x32^{5}/_{8}$ (1065x1224x829)	365 (165)
PDD336060K00*C	PDS336060KGP*C	35,000	13.5	11.5	35,000	7.7	60,000	80.0	$42x48^{3}/_{16}x32^{5}/_{8}$ (1065x1224x829)	372 (168)
PDD336090K00*C	PDS336090KGP*C	35,000	13.5	11.5	35,000	7.7	90,000	79.3	$42x48^{3}/_{16}x32^{5}/_{8}$ (1065x1224x829)	372 (168))
PDD342060K00*C	PDS342060KGP*C	40,000	13.2	11.5	40,000	7.7	60,000	78.5	$45^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1165x1224x1123)	453 (205)
PDD342090K00*C	PDS342090KGP*C	40,000	13.2	11.5	40,000	7.7	90,000	80.4	$45^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1165x1224x1123)	453 (205)
PDD348090K00*C	PDS348090KGP*C	47,000	13.5	11.5	46,500	7.7	90,000	80.4	$45^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1165x1224x1123)	474 (215)
PDD348115K00*C	PDS348115KGP*C	47,000	13.5	11.5	46,500	7.7	115,000	80.3	$45^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1165x1224x1123)	474 (215)
PDD348130K00*C	PDS348130KGP*C	47,000	13.5	11.5	46,500	7.7	130,000	78.9	$45^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1165x1224x1123)	474 (215)
PDD360090K00*C	PDS360090KGP*C	57,000	13.5	11.5	57,000	7.7	90,000	80.4	$49^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1266x1224x1123)	498 (226)
PDD360115K00*C	PDS360115KGP*C	57,000	13.5	11.5	57,000	7.7	115,000	80.3	$49^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1266x1224x1123)	498 (226)
PDD360130K00*C	PDS360130KGP*C	57,000	13.5	11.5	57,000	7.7	130,000	78.9	$49^{7}/_{8}x48^{3}/_{16}x44^{1}/_{8}$ (1266x1224x1123)	498 (226)

* – 0 = Standard, 1 = Low NOx

MODEL NOMENCLATURE

MODEL SERIES	1	2	3	4	5,6	7,8,9	10	11,12	13	14	15
	P	D	D	3	36	090	K	00	0	C	1

P = Package

A = Air Conditioner
H = Heat Pump
G = Gas/Electric
D = Dual Fuel

TYPE

D = Standard
S = Mainline w/ SS HX

TIER

3 = 13
4 = 14
5 = 15

SEER

24 = 24,000 BTUH = 2 Tons
30 = 30,000 BTUH = 2.5 Tons
36 = 36,000 BTUH = 3 Tons
42 = 42,000 BTUH = 3.5 Tons
48 = 48,000 BTUH = 4 Tons
60 = 60,000 BTUH = 5 Tons

NOMINAL COOLING CAPACITY

000 = no factory heat
040 = 40,000 BTU/hr
060 = 60,000 BTU/hr
090 = 90,000 BTU/hr
115 = 115,000 BTU/hr
130 = 130,000 BTU/hr

NOMINAL HEATING BTUH (input)

K = 208/230−1−60
H = 208/230−3−60
L = 460−3−60

VOLTAGE

00 = No options
GP = Tin Plated Evap Main Tubes plus Stainless Steel Heat Exchanger

FACTORY INSTALLED OPTIONS

0 = Standard
1 = Low NOx

FEATURE CODE

Sales Model Digit
Engineering Digit

AHRI* CAPACITIES

COOLING CAPACITIES AND EFFICIENCIES

UNIT	NOMINAL TONS	STANDARD CFM	COOLING CAPACITIES (Btuh)	EER**	SEER†
24	2	800	23,800	11.5	13.5
30	2−1/2	1000	29,000	11.5	13.5
36	3	1200	35,000	11.5	13.5
42	3−1/2	1400	40,000	11.5	13.2
48	4	1600	47,000	11.5	13.5
60	5	1850	57,000	11.5	13.5

HEAT PUMP HEATING CAPACITIES AND EFFICIENCIES

UNIT	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†
24	23,800	3.4	10,800	2.2	7.7
30	29,000	3.5	15,900	2.2	7.7
36	35,000	3.4	20,400	2.3	7.7
42	40,000	3.4	22,000	2.2	7.7
48	46,500	3.6	26,200	2.3	7.7
60	57,000	3.5	31,000	2.3	7.7

See LEGEND following table.

LEGEND
dBA–Sound Levels (decibels)
db—Dry Bulb
SEER—Seasonal Energy Efficiency Ratio
wb—Wet Bulb
COP–Coefficient of Performance
HSPF–Heating Season Performance Factor
* 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 (19.4°C) wb indoor entering–air temperature and 95°F (35°C) db outdoor entering–air temperature.
2. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

GAS HEATING CAPACITIES AND EFFICIENCIES

UNIT PD(D,S)3	HEATING INPUT (Btuh)	OUTPUT CAPACITY (Btuh)	TEMPERATURE RISE RANGE °F (°C)	AFUE (%)
24040 **30040**	40,000	32,000	30–60 (16.7–33.3)	80.0
24060 **30060** **36060** **42060**	60,000	48,000 48,000 48,000 47,000	25–55 (13.9–30.6)	80.0 80.0 80.0 78.5
36090 **42090** **48090** **60090**	90,000	72,000 73,000 73,000 73,000	35–65 (19.4–36.1)	79.3 80.4 80.4 80.4
48115 **00115**	115,000	93,000	30–60 (16.7–33.3)	80.3
48130 **60130**	130,000	103,000	35–65 (19.4–36.1)	78.9

LEGEND
AFUE—Annual Fuel Utilization Efficiency
NOTE: Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

UNIT ELECTRICAL SPECIFICATIONS

MODEL NUMBER	NOMINAL V–PH–HZ	Voltage Range		Compressor		OFM	IFM	IDM	Power Supply	
		Min.	Max.	RLA	LRA	FLA	FLA	FLA	MCA	MOCP
PD(D,S)32404030	208/230-1-60	197	253	13.5	58.3	1.2	4.1	0.65	22.2	30
PD(D,S)32406030		197	253	13.5	58.3	1.2	4.1	1.65	22.2	30
PD(D,S)33004030		197	253	16	73	1.2	4.1	0.65	25.3	40
PD(D,S)33006030		197	253	16	73	1.2	4.1	1.65	25.3	40
PD(D,S)33606030		197	253	19.3	79	1.2	6	1.65	31.3	45
PD(D,S)33609030		197	253	19.3	79	1.2	6	0.52	31.3	45
PD(D,S)34206030		197	253	20.9	112	1.2	6	1.65	33.3	50
PD(D,S)34209030		197	253	20.9	112	1.2	6	0.65	33.3	50
PD(D,S)34809030		197	253	23.5	117	1.2	7.6	0.65	38.2	50
PD(D,S)34811530		197	253	23.5	117	1.2	7.6	1.65	38.2	50
PD(D,S)34813030		197	253	23.5	117	1.2	7.6	0.52	38.2	50
PD(D,S)36009030		197	253	27.4	134	1.2	7.6	0.65	43.1	60
PD(D,S)36011530		197	253	27.4	134	1.2	7.6	1.65	43.1	60
PD(D,S)36013030		197	253	27.4	134	1.2	7.6	0.52	43.1	60

See Legend and Notes below.

LEGEND
FLA – Full Load Amps
LRA – Locked Rotor Amps
MCA – Minimum Circuit Amps
MOCP – Maximum Overcurrent Protection
RLA – Rated Load Amps

NOTES
1. In compliance with NEC (National Electrical Code) rquirements 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. The CGA (Canadian Gas Association) units may be fuse or circuit breaker.
2. Minimum wire size is based on 60°C copper wire. If other than 60°C copper wire is used, or if length exceeds wire length in table, determine size from NEC.

UNIT SPECIFICATIONS PD(D,S)324 − 42								
UNIT SIZE	**24040**	**24060**	**30040**	**30060**	**36060**	**36090**	**42060**	**42090**
NOMINAL CAPACITY (ton)	2	2	2-1/2	2-1/2	3	3	3-1/2	3-1/2
NOMINAL HEATING INPUT (Btu/hrs)	40,000	60,000	40,000	60,000	60,000	90,000	60,000	90,000
SHIPPING WEIGHT -lb. **(kg)**	359 163	359 163	373 169	373 169	379 172	379 172	461 209	461 209
COMPRESSORS	Scroll							
Quantity	1							
REFRIGERANT (R-410A) **Quantity -lb** **(kg)**	9.6 4.4	9.6 4.4	10.2 4.6	10.2 4.6	7.9 3.6	7.9 3.6	10.0 4.5	10.0 4.5
REFRIGERANT METERING DEVICE	Indoor-TXV, Outdoor-Piston							
OUTDOOR ORIFICE **in. (qty)** **(mm)**	0.032 (2) .81		0.035 (2) .89		0.037 (2) .94		0.038 (Left) 0.040(Right) .97/1.02	
OUTDOOR COIL **Rows...Fins/in.** **Face Area-sq ft**	2...21 11.9	2...21 11.9	2...21 11.9	2...21 11.9	2...21 11.9	2...21 11.9	2...21 13.6	2...21 13.6
OUTDOOR FAN **Nominal Cfm** **Diameter-in.** **(mm)** **Motor Hp (Rpm)**	2700 24 610 1/5 (810)	2700 24 610 1/5 (810)	2700 24 610 1/5 (810)	2700 24 610 1/5 (810)	2700 24 610 1/5 (810)	2700 24 610 1/5 (810)	3100 26 660 1/5 (810)	3100 26 660 1/5 (810)
INDOOR COIL **Rows...Fins/in.** **Face Area-sq ft**	3...17 3.7	3...17 3.7	3...17 3.7	3...17 3.7	3...17 3.7	3...17 3.7	3...17 4.7	3...17 4.7
INDOOR BLOWER **Nominal Cooling Airflow-(CFM)** **Size-in.** **(mm)** **Motor -hp**	800 10x10 254x254 1/2	800 10x10 254x254 1/2	1000 10x10 254x254 1/2	1000 10x10 254x254 1/2	1200 11x10 279x254 3/4	1200 11x10 279x254 3/4	1400 11x10 279x254 3/4	1400 11x10 279x254 3/4
FURNACE SECTION* **Burner Orifice** **Natural Gas Qty...Drill Size (Factory Installed)** **Propane GasQty...Drill Size**	2...44 2...55	2...38 2...53	2...44 2...55	2...38 2...53	2...38 2...53	3...38 3...53	2...38 2...53	3...38 3...53
HIGH-PRESSURE SWITCH **(psig) Cut-out** **Reset (Auto)**	650 +/-15 420 +/-25							
LOSS-OF-CHARGE / LOW-PRESSURE SWITCH (Liquid Line) (psig) **Cut-out** **Reset (auto)**	20 +/-5 45 +/-10							
RETURN-AIR FILTERS † ‡ **Throwaway (in.)** **(mm)**	20x20x1 508x508x25		20x24x1 508x610x25			24x30x1 610x762x25		

*Based on altitude of 0 to 2000 ft (0−610 m).

†Required filter sizes shown are based on the larger of the AHRI (Air Conditioning, Heating, and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/minute for 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 filter rack installation instructions for correct filter size and quantity.

UNIT SPECIFICATIONS PD(D,S)348 − 60						
UNIT SIZE	**48090**	**48115**	**48130**	**60090**	**60115**	**60130**
NOMINAL CAPACITY (ton)	4	4	4	5	5	5
NOMINAL HEATING INPUT (Btu/hrs)	90,000	115,000	130,000	90,000	115,000	130,000
OPERATING WEIGHT–lb **(kg)**	482 219	482 219	482 219	507 230	507 230	507 230
COMPRESSORS	Scroll					
Quantity	1					
REFRIGERANT (R–410A) **Quantity –lb** **(kg)**		9.6 4.4			12.3 5.6	
REFRIGERANT METERING DEVICE	Indoor–TXV, Outdoor–Piston					
OUTDOOR ORIFICE–in. (qty) **(mm)**		0.046 (2) 1.2			0.052 (2) 1.3	
OUTDOOR COIL **Rows...Fins–in.** **Face Area–sq ft**	2...21 13.6	2...21 13.6	2...21 13.6	2...21 17.5	2...21 17.5	2...21 17.5
OUTDOOR FAN **Nominal Cfm** **Diameter–in.** **(mm)** **Motor Hp–Rpm**	3100 26 660 1/5 (810)	3100 26 660 1/5 (810)	3100 26 660 1/5 (810)	3100 26 660 1/5 (810)	3100 26 660 1/5 (810)	3100 26 660 1/5 (810)
INDOOR COIL **Rows...Fins–in.** **Face Area–sq ft**	3...17 4.7	3...17 4.7	3...17 4.7	3...17 5.7	3...17 5.7	3...17 5.7
INDOOR BLOWER **Nominal Cooling Airflow–(CFM)** **Size–in.** **(mm)** **Motor –hp**	1600 11x10 279x254 1.0	1600 11x10 279x254 1.0	1600 11x10 279x254 1.0	1850 11x10 279x254 1.0	1850 11x10 279x254 1.0	1850 11x10 279x254 1.0
FURNACE SECTION* **Burner Orifice** **Natural Gas Qty...Drill Size (Factory Installed)** **Propane GasQty...Drill Size**	3...38 3...53	3...33 3...51	3...31 3...49	3...38 3...53	3...33 3...51	3...31 3...49
HIGH–PRESSURE SWITCH (psig) Cut–out **Reset (Auto)**	650 +/–15 420 +/–25					
LOSS–OF–CHARGE / LOW–PRESSURE SWITCH (Liquid Line) (psig) **Cut–out** **Reset (auto)**	20 +/–5 45 +/–10					
RETURN–AIR FILTERS † **Throwaway (in.)** **(mm)**	24x36x1 (610x914x25)					

*****Based on altitude of 0 to 2000 ft (0−610 m).

†Required filter sizes shown are based on the larger of the AHRI (Air Conditioning, Heating, and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/minute for 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 filter rack installation instructions for correct filter size and quantity.

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

UNIT PD(D,S)3	HEATING RISE RANGE	MOTOR SPEED	WIRE COLOR		EXTERNAL STATIC PRESSURE (in wc)								
					0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
24040	30 – 60ºF (17 – 33ºC)	Low	Blue	CFM	754	650	538	429	––	––	––	––	––
				Heating Rise (ºF)	40	46	56	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	22	26	31	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	851	777	675	591	475	––	––	––	––
				Heating Rise (ºF)	36	39	45	51	NA	NA	NA	NA	NA
				Heating Rise (ºC)	20	22	25	28	NA	NA	NA	NA	NA
		Medium[2]	Red	CFM	941	851	774	684	576	479	––	––	––
				Heating Rise (ºF)	32	36	39	44	52	NA	NA	NA	NA
				Heating Rise (ºC)	18	20	22	25	29	NA	NA	NA	NA
		Med–High[1]	Orange	CFM	1009	917	840	759	667	577	447	––	––
				Heating Rise (ºF)	30	33	36	40	45	52	NA	NA	NA
				Heating Rise (ºC)	17	18	20	22	25	29	NA	NA	NA
		High	Black	CFM	1241	1167	1111	1036	969	881	818	731	640
				Heating Rise (ºF)	NA	NA	NA	NA	31	34	37	41	47
				Heating Rise (ºC)	NA	NA	NA	NA	17	19	21	23	26
24060	25 – 55ºF (14 – 31ºC)	Low	Blue	CFM	754	650	538	429	––	––	––	––	––
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	851	777	675	591	475	––	––	––	––
				Heating Rise (ºF)	52	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	29	NA	NA	NA	NA	NA	NA	NA	NA
		Medium[2]	Red	CFM	941	851	774	684	576	479	––	––	––
				Heating Rise (ºF)	47	52	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	26	29	NA	NA	NA	NA	NA	NA	NA
		Med–High	Orange	CFM	1009	917	840	759	667	577	447	––	––
				Heating Rise (ºF)	44	48	53	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	24	27	29	NA	NA	NA	NA	NA	NA
		High[1]	Black	CFM	1241	1167	1111	1036	969	881	818	731	640
				Heating Rise (ºF)	36	38	40	43	46	50	54	NA	NA
				Heating Rise (ºC)	20	21	22	24	25	28	30	NA	NA
30040	30 – 60ºF (17 – 33ºC)	Low	Blue	CFM	741	638	547	415	––	––	––	––	––
				Heating Rise (ºF)	41	47	55	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	23	26	31	NA	NA	NA	NA	NA	NA
		Med–Low[1]	Pink	CFM	973	887	823	733	665	538	451	––	––
				Heating Rise (ºF)	31	34	37	41	45	56	NA	NA	NA
				Heating Rise (ºC)	17	19	20	23	25	31	NA	NA	NA
		Medium	Red	CFM	1088	1023	954	881	800	723	658	563	461
				Heating Rise (ºF)	NA	30	32	34	38	42	46	54	NA
				Heating Rise (ºC)	NA	16	18	19	21	23	26	30	NA
		Med–High[2]	Orange	CFM	1140	1064	996	915	840	758	687	564	480
				Heating Rise (ºF)	NA	NA	30	33	36	40	44	54	NA
				Heating Rise (ºC)	NA	NA	17	18	20	22	24	30	NA
		High	Black	CFM	1202	1140	1082	1015	961	881	810	732	631
				Heating Rise (ºF)	NA	NA	NA	30	31	34	37	41	48
				Heating Rise (ºC)	NA	NA	NA	17	17	19	21	23	27
30060	25 – 55ºF (14 – 31ºC)	Low	Blue	CFM	741	638	547	415	––	––	––	––	––
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	973	887	823	733	665	538	451	––	––
				Heating Rise (ºF)	46	50	54	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	25	28	30	NA	NA	NA	NA	NA	NA
		Medium	Red	CFM	1088	1023	954	881	800	723	658	563	461
				Heating Rise (ºF)	41	43	47	50	NA	NA	NA	NA	NA
				Heating Rise (ºC)	23	24	26	28	NA	NA	NA	NA	NA
		Med–High[2]	Orange	CFM	1140	1064	996	915	840	758	687	564	480
				Heating Rise (ºF)	39	42	45	49	53	NA	NA	NA	NA
				Heating Rise (ºC)	22	23	25	27	29	NA	NA	NA	NA
		High[1]	Black	CFM	1202	1140	1082	1015	961	881	810	732	631
				Heating Rise (ºF)	37	39	41	44	46	50	55	NA	NA
				Heating Rise (ºC)	21	22	23	24	26	28	30	NA	NA
36060	25 – 55ºF (14 – 31ºC)	Low[1]	Blue	CFM	1234	1168	1093	1021	961	894	825	759	687
				Heating Rise (ºF)	36	38	41	44	46	50	54	NA	NA
				Heating Rise (ºC)	20	21	23	24	26	28	30	NA	NA
		Med–Low	Pink	CFM	1290	1223	1154	1090	1027	977	894	828	762
				Heating Rise (ºF)	34	36	39	41	43	45	50	54	NA
				Heating Rise (ºC)	19	20	21	23	24	25	28	30	NA
		Medium[2]	Red	CFM	1354	1290	1226	1158	1102	1046	981	918	843
				Heating Rise (ºF)	33	34	36	38	40	42	45	48	53
				Heating Rise (ºC)	18	19	20	21	22	24	25	27	29
		Med–High	Orange	CFM	1606	1546	1489	1430	1371	1316	1258	1208	1140
				Heating Rise (ºF)	28	29	30	31	32	34	35	37	39
				Heating Rise (ºC)	15	16	17	17	18	19	20	20	22
		High	Black	CFM	1630	1580	1517	1463	1407	1339	1277	1210	1131
				Heating Rise (ºF)	27	28	29	30	32	33	35	37	39
		High	Black	Heating Rise (ºC)	15	16	16	17	18	18	19	20	22

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

UNIT PD(D,S)3	HEATING RISE RANGE	MOTOR SPEED	WIRE COLOR		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
					EXTERNAL STATIC PRESSURE (in wc)								
36090	35 – 65ºF (19 – 36ºC)	Low	Blue	CFM	1234	1168	1093	1021	961	894	825	759	687
				Heating Rise (ºF)	55	58	62	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	31	32	35	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	1290	1223	1154	1090	1027	977	894	828	762
				Heating Rise (ºF)	53	56	59	62	NA	NA	NA	NA	NA
				Heating Rise (ºC)	29	31	33	35	NA	NA	NA	NA	NA
		Medium[2]	Red	CFM	1354	1290	1226	1158	1102	1046	981	918	843
				Heating Rise (ºF)	50	53	55	59	62	65	NA	NA	NA
				Heating Rise (ºC)	28	29	31	33	34	36	NA	NA	NA
		Med–High	Orange	CFM	1606	1546	1489	1430	1371	1316	1258	1208	1140
				Heating Rise (ºF)	42	44	46	48	50	52	54	56	60
				Heating Rise (ºC)	24	24	25	26	28	29	30	31	33
		High[1]	Black	CFM	1630	1580	1517	1463	1407	1339	1277	1210	1131
				Heating Rise (ºF)	42	43	45	46	48	51	53	56	60
				Heating Rise (ºC)	23	24	25	26	27	28	30	31	33
42060	25 – 55ºF (14 – 31ºC)	Low[1]	Blue	CFM	1295	1234	1182	1126	1075	1016	955	898	857
				Heating Rise (ºF)	34	36	38	39	41	44	47	49	52
				Heating Rise (ºC)	19	20	21	22	23	24	26	27	29
		Med–Low	Pink	CFM	1345	1282	1235	1194	1140	1095	1027	974	921
				Heating Rise (ºF)	33	35	36	37	39	41	43	46	48
				Heating Rise (ºC)	18	19	20	21	22	23	24	25	27
		Medium	Red	CFM	1505	1452	1413	1358	1323	1282	1234	1169	1130
				Heating Rise (ºF)	30	31	31	33	34	35	36	38	39
				Heating Rise (ºC)	16	17	17	18	19	19	20	21	22
		Med–High[2]	Orange	CFM	1545	1492	1449	1411	1362	1313	1278	1231	1188
				Heating Rise (ºF)	29	30	31	31	33	34	35	36	37
				Heating Rise (ºC)	16	17	17	17	18	19	19	20	21
		High	Black	CFM	1705	1643	1607	1568	1518	1483	1448	1404	1360
				Heating Rise (ºF)	26	27	28	28	29	30	31	32	33
				Heating Rise (ºC)	14	15	15	16	16	17	17	18	18
42090	35 – 65ºF (19 – 36ºC)	Low	Blue	CFM	1295	1234	1182	1126	1075	1016	955	898	857
				Heating Rise (ºF)	53	55	58	60	63	NA	NA	NA	NA
				Heating Rise (ºC)	29	31	32	34	35	NA	NA	NA	NA
		Med–Low	Pink	CFM	1345	1282	1235	1194	1140	1095	1027	974	921
				Heating Rise (ºF)	51	53	55	57	60	62	NA	NA	NA
				Heating Rise (ºC)	28	29	31	32	33	35	NA	NA	NA
		Medium[1]	Red	CFM	1505	1452	1413	1358	1323	1282	1234	1169	1130
				Heating Rise (ºF)	45	47	48	50	51	53	55	58	60
				Heating Rise (ºC)	25	26	27	28	29	29	31	32	33
		Med–High[2]	Orange	CFM	1545	1492	1449	1411	1362	1313	1278	1231	1188
				Heating Rise (ºF)	44	46	47	48	50	52	53	55	57
				Heating Rise (ºC)	24	25	26	27	28	29	30	31	32
		High	Black	CFM	1705	1643	1607	1568	1518	1483	1448	1404	1360
				Heating Rise (ºF)	40	41	42	43	45	46	47	48	50
				Heating Rise (ºC)	22	23	24	24	25	25	26	27	28
48090	35 – 65ºF (19 – 36ºC)	Low[1]	Blue	CFM	1402	1351	1311	1263	1224	1172	1136	1080	1041
				Heating Rise (ºF)	49	50	52	54	56	58	60	63	65
				Heating Rise (ºC)	27	28	29	30	31	32	33	35	36
		Med–Low	Pink	CFM	1457	1404	1367	1318	1284	1233	1197	1144	1104
				Heating Rise (ºF)	47	48	50	52	53	55	57	59	62
				Heating Rise (ºC)	26	27	28	29	29	31	32	33	34
		Medium[2]	Red	CFM	1736	1695	1642	1601	1553	1512	1465	1427	1381
				Heating Rise (ºF)	39	40	41	42	44	45	46	48	49
				Heating Rise (ºC)	22	22	23	24	24	25	26	26	27
		Med–High	Orange	CFM	2149	2111	2062	2026	1980	1945	1905	1864	1793
				Heating Rise (ºF)	NA	NA	NA	NA	NA	35	36	36	38
				Heating Rise (ºC)	NA	NA	NA	NA	NA	19	20	20	21
		High	Black	CFM	2344	2306	2259	2203	2141	2070	1991	1902	1803
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	36	38
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	20	21
48115	30 – 60ºF (17 – 33ºC)	Low	Blue	CFM	1402	1351	1311	1263	1224	1172	1136	1080	1041
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	1457	1404	1367	1318	1284	1233	1197	1144	1104
				Heating Rise (ºF)	60	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	33	NA	NA	NA	NA	NA	NA	NA	NA
		Medium[2]	Red	CFM	1736	1695	1642	1601	1553	1512	1465	1427	1381
				Heating Rise (ºF)	50	51	53	54	56	57	59	NA	NA
				Heating Rise (ºC)	28	28	29	30	31	32	33	NA	NA
		Med–High[1]	Orange	CFM	2149	2111	2062	2026	1980	1945	1905	1864	1793
				Heating Rise (ºF)	40	41	42	43	44	45	46	47	48
				Heating Rise (ºC)	22	23	23	24	24	25	25	26	27
		High	Black	CFM	2344	2306	2259	2203	2141	2070	1991	1902	1803
				Heating Rise (ºF)	37	38	38	39	41	42	44	46	48
				Heating Rise (ºC)	21	21	21	22	23	23	24	25	27

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

UNIT PD(D,S)3	HEATING RISE RANGE	MOTOR SPEED	WIRE COLOR		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
					EXTERNAL STATIC PRESSURE (in wc)								
48130	35 – 65ºF (19 – 36ºC)	Low	Blue	CFM	1402	1351	1311	1263	1224	1172	1136	1080	1041
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	1457	1404	1367	1318	1284	1233	1197	1144	1104
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Medium[2]	Red	CFM	1736	1695	1642	1601	1553	1512	1465	1427	1381
				Heating Rise (ºF)	55	57	59	60	62	64	NA	NA	NA
				Heating Rise (ºC)	31	32	33	33	34	35	NA	NA	NA
		Med–High[1]	Orange	CFM	2149	2111	2062	2026	1980	1945	1905	1864	1793
				Heating Rise (ºF)	45	46	47	48	49	50	51	52	54
				Heating Rise (ºC)	25	25	26	26	27	28	28	29	30
		High	Black	CFM	2344	2306	2259	2203	2141	2070	1991	1902	1803
				Heating Rise (ºF)	41	42	43	44	45	47	48	51	53
				Heating Rise (ºC)	23	23	24	24	25	26	27	28	30
60090	35 – 65ºF (19 – 36ºC)	Low[1]	Blue	CFM	1445	1389	1341	1281	1236	1189	1139	1072	1027
				Heating Rise (ºF)	47	49	51	53	55	57	60	63	NA
				Heating Rise (ºC)	26	27	28	29	31	32	33	35	NA
		Med–Low	Pink	CFM	1678	1635	1602	1558	1513	1474	1438	1404	1349
				Heating Rise (ºF)	41	42	42	44	45	46	47	48	50
				Heating Rise (ºC)	23	23	24	24	25	26	26	27	28
		Medium[2]	Red	CFM	1927	1893	1858	1824	1791	1759	1720	1689	1640
				Heating Rise (ºF)	35	36	37	37	38	39	40	40	41
				Heating Rise (ºC)	20	20	20	21	21	21	22	22	23
		Med–High	Orange	CFM	2131	2088	2065	2013	1982	1941	1888	1860	1785
				Heating Rise (ºF)	NA	NA	NA	NA	NA	35	36	37	38
				Heating Rise (ºC)	NA	NA	NA	NA	NA	19	20	20	21
		High	Black	CFM	2461	2409	2339	2286	2192	2140	2062	1968	1874
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	35	36
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	19	20
60115	30 – 60ºF (17 – 33ºC)	Low	Blue	CFM	1445	1389	1341	1281	1236	1189	1139	1072	1027
				Heating Rise (ºF)	60	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	33	NA	NA	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	1678	1635	1602	1558	1513	1474	1438	1404	1349
				Heating Rise (ºF)	52	53	54	56	57	59	60	NA	NA
				Heating Rise (ºC)	29	30	30	31	32	33	34	NA	NA
		Medium[2]	Red	CFM	1927	1893	1858	1824	1791	1759	1720	1689	1640
				Heating Rise (ºF)	45	46	47	48	49	49	51	51	53
				Heating Rise (ºC)	25	26	26	26	27	27	28	29	29
		Med–High[1]	Orange	CFM	2131	2088	2065	2013	1982	1941	1888	1860	1785
				Heating Rise (ºF)	41	42	42	43	44	45	46	47	49
				Heating Rise (ºC)	23	23	23	24	24	25	26	26	27
		High	Black	CFM	2461	2409	2339	2286	2192	2140	2062	1968	1874
				Heating Rise (ºF)	35	36	37	38	40	41	42	44	46
				Heating Rise (ºC)	20	20	21	21	22	23	23	25	26
360130	35 – 65ºF (19 – 36ºC)	Low	Blue	CFM	1445	1389	1341	1281	1236	1189	1139	1072	1027
				Heating Rise (ºF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Heating Rise (ºC)	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Med–Low	Pink	CFM	1678	1635	1602	1558	1513	1474	1438	1404	1349
				Heating Rise (ºF)	57	59	60	62	64	65	NA	NA	NA
				Heating Rise (ºC)	32	33	33	34	35	36	NA	NA	NA
		Medium[2]	Red	CFM	1927	1893	1858	1824	1791	1759	1720	1689	1640
				Heating Rise (ºF)	50	51	52	53	54	55	56	57	59
				Heating Rise (ºC)	28	28	29	29	30	30	31	32	33
		Med–High[1]	Orange	CFM	2131	2088	2065	2013	1982	1941	1888	1860	1785
				Heating Rise (ºF)	45	46	47	48	49	50	51	52	54
				Heating Rise (ºC)	25	26	26	27	27	28	28	29	30
		High	Black	CFM	2461	2409	2339	2286	2192	2140	2062	1968	1874
				Heating Rise (ºF)	39	40	41	42	44	45	47	49	51
				Heating Rise (ºC)	22	22	23	23	24	25	26	27	29

* Air delivery values are without air filter and are for dry coil (See PD(D,S)3 Wet Coil Pressure Drop table).

[1] Factory–shipped gas heating speed

[2] Factory–shipped cooling/heat pump heat speed

NA – Not allowed for heating speed

Note: For horizontal deduct field–supplied air filter pressure drop and wet coil pressure drop to obtain external static pressure available for ducting.
For downflow applications see Wet Coil Air Delivery table for available static including wet coil, 1–in. (25 mm) filter and economizer.

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

HORIZONTAL WET COIL PRESSURE DROP

Unit Size	Standard CFM (S.C.F.M)															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
24		0.06	0.07	0.08	0.09	0.1										
30				0.12	0.15	0.19	0.23	0.27								
36						0.07	0.11	0.18	0.26	0.35						
42								0.04	0.07	0.1	0.15	0.21				
48										0.11	0.14	0.17	0.22	0.28		
60												0.1	0.17	0.23	0.31	0.36

DOWNFLOW WET COIL AIR DELIVERY (CFM) – HIGH SPEED WITH 1–IN. (25 MM) FILTER AND ECONOMIZER

UNIT SIZE	EXTERNAL STATIC PRESSURE (in wc)									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
36	1333	1289	1256	1214	1152	1118	1076	1035	997	950
42	1612	1569	1527	1481	1451	1393	1351	1317	1278	1242
48	2166	2085	2002	1919	1798	1709	1582	1467	1270	988
60	2298	2239	2180	2110	2044	1951	1862	1777	1697	1591

HORIZONTAL FILTER PRESSURE DROP TABLE (in wc)

FILTER SIZE in. (mm)	CFM																		
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20X20X1 (508X508X25)	0.05	0.07	0.08	0.1	0.12	0.13	0.14	0.15	—	—	—	—	—	—	—	—	—	—	—
20X24X1 (508X610x25)	—	—	—	.09	.10	.11	.13	.14	.15	.16	—	—	—	—	—	—	—	—	—
24X30X1 (610X762x25)	—	—	—	0.04	0.05	0.06	0.07	0.07	0.08	0.09	0.1	—	—	—	—	—	—	—	—
24X36X1 (610X914X25)	—	—	—	—	—	—	—	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.14	0.14

HORIZONTAL ECONOMIZER 1 inch (25mm) FILTER PRESSURE DROP (in wc)

UNIT PD(D,S)3	PRESSURE DROP
24–36	0.20
42–60	0.25

NATURAL GAS ORIFICE SIZES AND MANIFOLD PRESSURE

Nameplate Input (Btu/hr)	Orifice Size (Qty) Manifold Press (in wc)	ALTITUDE OF INSTALLATION (FT. ABOVE SEA LEVEL) U.S.A.*				
		0 to 2000 (0–610 m)	2001 to 3000* (611 to 914 m)	3001 to 4000 (915 to 1219 m)	4001 to 5000 (1220 to 1524 m)	5001 to 6000 (1524 to 1829 m)
40000	Orifice No. (Qty)	44 (2)	45 (2)†	48 (2)†	48 (2)†	48 (2)†
	Manifold Press. (in wc)	3.2	3.2	3.8	3.5	3.2
60000	Orifice No. (Qty)	38 (2)	41 (2)†	41 (2)†	42 (2)†	42 (2)†
	Manifold Press. (in wc)	3.6	3.8	3.4	3.4	3.2
90000	Orifice No. (Qty)	38 (3)	41 (3)†	41 (3)†	42 (3)†	42 (3)†
	Manifold Press. (in wc)	3.6	3.8	3.4	3.4	3.2
115000	Orifice No. (Qty)	33 (3)	36 (3)†	36 (3)†	36 (3)†	38 (3)†
	Manifold Press. (in wc)	3.8	3.8	3.6	3.3	3.6
130000	Orifice No. (Qty)	31 (3)	31 (3)	33 (3)†	33 (3)†	34 (3)†
	Manifold Press. (in wc)	3.8	3.2	3.7	3.4	3.3

*In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above Sea level.
In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
For Canadian Installations from 2000 to 4500 ft, use U.S.A. column 2001 to 3000 ft.
Note: Orifice sizes and manifold pressure settings are based on natural gas with a heating value of 1025 Btu/ft3 and a specific gravity of .6.
† Orifices available through your distributor.

PROPANE GAS ORIFICE SIZES AND MANIFOLD PRESSURE

Nameplate Input (Btu/hr)	Orifice Size (Qty) Manifold Press (in wc)	ALTITUDE OF INSTALLATION (FT. ABOVE SEA LEVEL) U.S.A.*				
		0 to 2000 (0–610 m)	2001 to 3000* (611 to 914 m)	3001 to 4000 (915 to 1219 m)	4001 to 5000 (1220 to 1524 m)	5001 to 6000 (1524 to 1829 m)
40000	Orifice No. (Qty)	55 (2)	56 (2)	56 (2)	56 (2)	56 (2)
	Manifold Press. (in wc)	10.0	11.0	11.0	11.0	10.7
60000	Orifice No. (Qty)	53 (2)	54 (2)	54 (2)	54 (2)	54 (2)
	Manifold Press. (in wc)	10.0	11.0	11.0	11.0	11.0
90000	Orifice No. (Qty)	53 (3)	54 (3)	54 (3)	54 (3)	54 (3)
	Manifold Press. (in wc)	10.0	11.0	11.0	11.0	11.0
115000	Orifice No. (Qty)	51 (3)	52 (3)	52 (3)	53 (3)	53 (3)
	Manifold Press. (in wc)	10.0	11.0	10.6	11.0	11.0
130000	Orifice No. (Qty)	49 (3)	50 (3)	51 (3)	52 (3)	52 (3)
	Manifold Press. (in wc)	10.0	11.0	11.0	11.0	11.0

*In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above Sea level.
In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
For Canadian Installations from 2000 to 4500 ft (610–1372 m), use U.S.A. column 2001 to 3000 ft (611 to 914 m).
†Use Kit No. NPLPCONV013A00 (0–2000 ft [0–610 m] above sea level). Use Kit No. NPLPCONV014A00 (2001–6000 ft [611–1829 m] above sea level).

HIGH ALTITUDE COMPENSATION, NATURAL GAS

Nameplate Input (Btu/hr)	Rated Heating Input (Btu/hr), Natural Gas at Installation Altitude Above Sea Level, U.S.A.*				
	0 to 2000 ft (0–610 m)	2001 to 3000 ft* (611 to 914 m)	3001 to 4000 ft (915 to 1219 m)	4001 to 5000 ft (1220 to 1524 m)	5001 to 6000 ft (1524 to 1829 m)
40000	40000	36000	34400	32800	31200
60000	60000	54000	51600	49200	46800
90000	90000	81000	77400	73800	70200
115000	115000	103500	98900	94300	89700
130000	130000	117000	111800	106600	101400

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

HIGH ALTITUDE COMPENSATION, PROPANE GAS

Nameplate Input (Btu/hr)	Rated Heating Input (Btu/hr), LP Gas at Installation Altitude Above Sea Level, U.S.A.*				
	0 to 2000 ft (0–610 m)	2001 to 3000 ft* (611 to 914 m)	3001 to 4000 ft (915 to 1219 m)	4001 to 5000 ft (1220 to 1524 m)	5001 to 6000 ft (1524 to 1829 m)
40000	38000	31700	31700	31700	31200
60000	53000	45900	45900	45800	45800
90000	79000	68900	68900	68600	68600
115000	103000	100400	98900	83000	83000
130000	116000	115500	111800	101300	100400

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

A-WEIGHTED SOUND POWER LEVEL (dBA)

MODEL PD(D,S)3	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA) (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	76	57.0	65.5	72.0	71.0	67.0	62.0	53.0
30	76	60.5	67.5	72.0	70.0	67.0	61.0	51.5
36	77	63.0	68.0	73.0	71.0	67.0	62.0	55.0
42	78	65.0	68.5	74.5	72.5	69.5	64.5	56.5
48	78	62.0	68.5	74.0	72.5	70.0	64.0	56.0
60	76	63.0	66.5	69.5	71.0	66.0	65.0	59.0

LEGEND
dBA–Sound Levels (decibels)

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

PD(D,S)324 COOLING EXTENDED PERFORMANCE TABLE

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)		
CFM / BF	EWB °F (°C)	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	
700 / 0.11	57 (13.9)	22.38	22.38	1.57	21.54	21.54	1.78	20.63	20.63	2.01	19.64	19.64	2.27	18.54	18.54	2.56	17.33	17.33	2.88
	62 (16.7)	23.32	21.00	1.58	22.26	20.45	1.79	21.13	19.85	2.02	19.92	19.18	2.27	18.63	18.50	2.56	17.36	17.36	2.88
	63* (17.2)	23.73	17.21	1.58	22.64	16.69	1.79	21.47	16.14	2.02	20.21	15.55	2.27	18.82	14.89	2.56	17.32	14.19	2.88
	67 (19.4)	25.65	17.94	1.60	24.48	17.42	1.81	23.23	16.87	2.04	21.88	16.28	2.30	20.41	15.64	2.58	18.80	14.93	2.89
	72 (13.9)	28.26	14.67	1.65	26.98	14.19	1.86	25.61	13.68	2.08	24.14	13.14	2.34	22.52	12.55	2.62	20.77	11.88	2.93
800 / 0.15	57 (13.9)	23.50	23.50	1.60	22.59	22.59	1.81	21.61	21.61	2.04	20.54	20.54	2.30	19.37	19.37	2.58	18.07	18.07	2.90
	62 (16.7)	24.02	22.63	1.60	22.92	22.02	1.81	21.77	21.32	2.04	20.58	20.58	2.30	19.40	19.40	2.58	18.10	18.10	2.90
	63* (17.2)	24.39	18.39	1.61	23.24	17.85	1.81	22.02	17.28	2.04	20.69	16.67	2.30	19.25	15.98	2.58	17.68	15.23	2.90
	67 (19.4)	26.34	19.21	1.63	25.11	18.67	1.84	23.80	18.10	2.07	22.38	17.48	2.32	20.84	16.81	2.60	19.17	16.06	2.92
	72 (13.9)	29.00	15.54	1.68	27.64	15.04	1.89	26.19	14.53	2.12	24.66	13.93	2.37	22.98	13.29	2.65	21.15	12.59	2.95
900 / 0.20	57 (13.9)	24.45	24.45	1.63	23.48	23.48	1.84	22.45	22.45	2.07	21.31	21.31	2.32	20.06	20.06	2.61	18.69	18.69	2.93
	62 (16.7)	24.64	24.10	1.63	23.54	23.54	1.84	22.49	22.49	2.07	21.34	21.34	2.32	20.10	20.10	2.61	18.71	18.71	2.93
	63* (17.2)	24.92	19.53	1.63	23.72	18.97	1.84	22.45	18.37	2.07	21.07	17.72	2.32	19.58	17.01	2.60	17.97	16.22	2.92
	67 (19.4)	26.89	20.43	1.66	25.60	19.87	1.87	24.25	19.27	2.10	22.78	18.63	2.35	21.18	17.93	2.63	19.46	17.14	2.94
	72 (13.9)	29.56	16.36	1.71	28.16	15.83	1.92	26.67	15.26	2.15	25.07	14.65	2.40	23.33	13.99	2.67	21.45	13.27	2.98

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)324 HEATING EXTENDED PERFORMANCE TABLE −10−60°F (−23.3−15.6°C)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		−10 (−23.3)			0 (−17.8)			10 (−12.2)			20 (−6.7)			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	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	700	7.81	7.18	1.51	10.21	9.39	1.62	13.03	11.96	1.71	15.49	14.05	1.76	18.20	15.95	1.81	21.29	21.29	1.87	24.98	24.98	1.97	29.37	29.37	2.13
	800	7.93	7.29	1.51	10.35	9.52	1.62	13.17	12.09	1.70	15.63	14.18	1.74	18.38	16.11	1.78	21.53	21.53	1.83	25.30	25.30	1.92	29.63	29.63	2.05
	900	8.02	7.38	1.52	10.45	9.62	1.62	13.28	12.19	1.69	15.76	14.29	1.73	18.54	16.24	1.76	21.73	21.73	1.80	25.52	25.52	1.89	29.60	29.60	2.02
70	700	7.49	6.89	1.59	9.88	9.10	1.70	12.47	11.44	1.79	15.29	13.87	1.86	17.96	15.74	1.91	20.99	20.99	1.97	24.59	24.59	2.07	28.92	28.92	2.23
	800	7.61	7.00	1.59	10.04	9.24	1.70	12.72	11.68	1.78	15.43	14.00	1.83	18.14	15.89	1.87	21.22	21.22	1.93	24.90	24.90	2.02	29.27	29.27	2.16
	900	7.71	7.09	1.59	10.16	9.35	1.70	12.88	11.82	1.77	15.55	14.10	1.82	18.28	16.02	1.85	21.42	21.42	1.90	25.15	25.15	1.99	29.31	29.31	2.12
75	700	7.14	6.57	1.67	9.56	8.80	1.79	12.14	11.14	1.88	15.07	13.67	1.96	17.72	15.52	2.01	20.69	20.69	2.08	24.22	24.22	2.18	28.47	28.47	2.34
	800	7.25	6.67	1.67	9.71	8.93	1.78	12.31	11.30	1.86	15.22	13.81	1.93	17.89	15.68	1.98	20.92	20.92	2.03	24.53	24.53	2.12	28.86	28.86	2.28
	900	7.37	6.78	1.67	9.83	9.04	1.78	12.46	11.43	1.86	15.35	13.92	1.92	18.04	15.81	1.95	21.11	21.11	2.00	24.76	24.76	2.09	28.98	28.98	2.22

See LEGEND following tables.

PD(D,S)330 COOLING EXTENDED PERFORMANCE TABLE

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)		
CFM / BF	EWB °F (°C)	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW	Capacity MBtuh		Total Sys KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
875 / 0.13	57 (13.9)	27.44	27.44	2.00	26.40	26.40	2.22	25.31	25.31	2.47	24.13	24.13	2.75	22.83	22.83	3.07	21.42	21.42	3.44
	62 (16.7)	28.39	25.49	2.00	27.09	24.83	2.22	25.75	24.11	2.47	24.34	23.30	2.75	22.88	22.88	3.07	21.45	21.45	3.44
	63* (17.2)	28.86	20.79	2.00	27.53	20.17	2.22	26.13	19.52	2.47	24.63	18.84	2.75	23.00	18.09	3.07	21.25	17.29	3.44
	67 (19.4)	31.27	21.73	2.02	29.83	21.10	2.24	28.33	20.46	2.49	26.73	19.77	2.76	25.00	19.04	3.08	23.14	18.24	3.45
	72 (13.9)	34.57	17.68	2.04	32.97	17.10	2.26	31.32	16.50	2.51	29.56	15.87	2.79	27.68	15.20	3.10	25.66	14.44	3.46
1000 / 0.17	57 (13.9)	28.78	28.78	2.04	27.67	27.67	2.26	26.49	26.49	2.50	25.23	25.23	2.78	23.84	23.84	3.11	22.33	22.33	3.47
	62 (16.7)	29.25	27.45	2.04	27.91	26.71	2.26	26.55	26.55	2.50	25.27	25.27	2.79	23.88	23.88	3.11	22.37	22.37	3.47
	63* (17.2)	29.64	22.24	2.04	28.24	21.59	2.26	26.76	20.92	2.51	25.20	20.20	2.78	23.51	19.42	3.10	21.69	18.56	3.47
	67 (19.4)	32.09	23.29	2.05	30.58	22.64	2.28	29.00	21.96	2.52	27.32	21.25	2.80	25.54	20.48	3.12	23.60	19.64	3.48
	72 (13.9)	35.47	18.74	2.08	33.78	18.14	2.30	32.02	17.52	2.55	30.20	16.83	2.82	28.25	16.11	3.14	26.14	15.32	3.49
1125 / 0.21	57 (13.9)	29.95	29.95	2.07	28.75	28.75	2.29	27.50	27.50	2.54	26.15	26.15	2.82	24.69	24.69	3.14	23.10	23.10	3.51
	62 (16.7)	30.03	30.03	2.07	28.81	28.81	2.30	27.55	27.55	2.54	26.20	26.20	2.82	24.73	24.73	3.14	23.14	23.14	3.51
	63* (17.2)	30.27	23.63	2.07	28.80	22.96	2.29	27.27	22.26	2.54	25.65	21.50	2.82	23.91	20.68	3.14	22.05	19.77	3.50
	67 (19.4)	32.74	24.80	2.09	31.17	24.11	2.31	29.54	23.41	2.56	27.80	22.67	2.83	25.95	21.86	3.15	23.97	20.96	3.51
	72 (13.9)	36.13	19.76	2.11	34.40	19.10	2.34	32.60	18.43	2.58	30.70	17.73	2.86	28.69	16.98	3.17	26.51	16.17	3.53

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)330 HEATING EXTENDED PERFORMANCE TABLE −10−60°F (−23.3−15.6°C)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		−10 (−23.3)			0 (−17.8)			10 (−12.2)			20 (−6.7)			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	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	875	8.58	7.89	1.91	11.60	10.67	1.98	14.83	13.61	2.04	18.37	16.66	2.12	22.35	19.58	2.21	26.08	26.08	2.29	30.29	30.29	2.39	35.28	35.28	2.52
	1000	8.75	8.05	1.92	11.81	10.87	1.99	15.07	13.83	2.05	18.71	16.97	2.11	22.60	19.80	2.19	26.39	26.39	2.26	30.70	30.70	2.35	35.83	35.83	2.47
	1125	8.92	8.20	1.95	11.99	11.04	2.00	15.28	14.02	2.06	19.32	17.52	2.12	22.81	19.98	2.18	26.65	26.65	2.24	31.04	31.04	2.32	36.29	36.29	2.43
70	875	8.06	7.42	1.98	11.12	10.23	2.06	14.37	13.19	2.13	17.90	16.23	2.21	22.07	19.33	2.31	25.74	25.74	2.40	29.87	29.87	2.50	34.73	34.73	2.64
	1000	8.24	7.58	2.00	11.33	10.42	2.07	14.62	13.42	2.14	18.19	16.49	2.20	22.30	19.54	2.29	26.03	26.03	2.36	30.27	30.27	2.46	35.27	35.27	2.58
	1125	8.40	7.73	2.02	11.51	10.59	2.09	14.83	13.61	2.15	18.43	16.71	2.21	22.51	19.72	2.28	26.29	26.29	2.35	30.57	30.57	2.43	35.70	35.70	2.54
75	875	7.50	6.90	2.06	10.60	9.76	2.15	13.88	12.74	2.22	17.41	15.79	2.31	21.72	19.03	2.42	25.38	25.38	2.51	29.46	29.46	2.62	34.18	34.18	2.75
	1000	7.68	7.06	2.08	10.81	9.95	2.16	14.13	12.97	2.23	17.69	16.05	2.30	21.99	19.27	2.40	25.68	25.68	2.48	29.83	29.83	2.57	34.70	34.70	2.69
	1125	7.84	7.21	2.11	11.00	10.12	2.18	14.34	13.16	2.24	17.94	16.27	2.30	22.21	19.46	2.39	25.93	25.93	2.46	30.13	30.13	2.54	35.14	35.14	2.66

See LEGEND following tables.

PD(D,S)336 COOLING EXTENDED PERFORMANCE TABLE

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)		
CFM / BF	EWB °F (°C)	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 / 0.12	57 (13.9)	33.59	33.59	2.41	32.25	32.25	2.67	30.82	30.82	2.96	29.24	29.24	3.28	27.50	27.50	3.66	25.58	25.58	4.08
	62 (16.7)	34.77	30.70	2.42	33.10	29.87	2.67	31.33	28.94	2.96	29.46	27.90	3.29	27.56	27.56	3.66	25.62	25.62	4.08
	63* (17.2)	35.34	25.01	2.42	33.64	24.23	2.68	31.81	23.40	2.96	29.83	22.52	3.29	27.67	21.55	3.66	25.33	20.50	4.08
	67 (19.4)	38.13	26.06	2.44	36.31	25.28	2.70	34.33	24.46	2.99	32.20	23.57	3.31	29.86	22.59	3.68	27.36	21.54	4.10
	72 (13.9)	41.96	21.04	2.47	39.94	20.31	2.74	37.75	19.54	3.03	35.39	18.70	3.35	32.82	17.81	3.71	30.05	16.85	4.12
1200 / 0.18	57 (13.9)	35.11	35.11	2.47	33.69	33.69	2.73	32.14	32.14	3.02	30.45	30.45	3.34	28.57	28.57	3.71	26.49	26.49	4.14
	62 (16.7)	35.71	33.01	2.47	33.97	32.07	2.73	32.20	32.20	3.02	30.50	30.50	3.34	28.61	28.61	3.71	26.53	26.53	4.14
	63* (17.2)	36.21	26.69	2.47	34.40	25.89	2.73	32.47	25.03	3.02	30.40	24.10	3.34	28.14	23.09	3.71	25.72	21.97	4.13
	67 (19.4)	38.99	27.86	2.50	37.07	27.06	2.76	35.00	26.20	3.04	32.76	25.27	3.37	30.32	24.25	3.73	27.71	23.14	4.15
	72 (13.9)	42.86	22.23	2.53	40.74	21.48	2.79	38.42	20.68	3.08	35.93	19.82	3.40	33.26	18.85	3.76	30.40	17.82	4.17
1350 / 0.24	57 (13.9)	36.41	36.41	2.52	34.89	34.89	2.78	33.23	33.23	3.07	31.42	31.42	3.40	29.41	29.41	3.77	27.22	27.22	4.19
	62 (16.7)	36.54	36.49	2.53	34.95	34.95	2.79	33.28	33.28	3.07	31.47	31.47	3.40	29.45	29.45	3.77	27.25	27.25	4.19
	63* (17.2)	36.85	28.29	2.53	34.96	27.46	2.78	32.97	26.58	3.07	30.82	25.61	3.39	28.48	24.53	3.76	26.00	23.34	4.18
	67 (19.4)	39.63	29.59	2.55	37.64	28.75	2.81	35.49	27.86	3.10	33.16	26.89	3.42	30.65	25.82	3.78	27.98	24.63	4.20
	72 (13.9)	43.50	23.36	2.58	41.27	22.59	2.85	38.89	21.74	3.13	36.32	20.81	3.45	33.56	19.82	3.82	30.62	18.76	4.22

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)336 HEATING EXTENDED PERFORMANCE TABLE −10−60°F (−23.3−15.6°C)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		−10 (−23.3)			0 (−17.8)			10 (−12.2)			20 (−6.7)			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	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	1050	12.15	11.18	2.30	15.31	14.08	2.39	19.19	17.61	2.49	22.68	20.57	2.58	26.68	23.38	2.68	31.28	31.28	2.80	36.70	36.70	2.96	42.99	42.99	3.16
	1200	12.38	11.39	2.32	15.57	14.32	2.40	19.41	17.82	2.50	22.96	20.82	2.58	27.01	23.66	2.67	31.68	31.68	2.78	37.20	37.20	2.94	43.06	43.06	3.12
	1350	12.59	11.58	2.35	15.79	14.53	2.43	19.62	18.01	2.52	23.19	21.03	2.59	27.29	23.91	2.67	32.01	32.01	2.78	37.51	37.51	2.93	42.82	42.82	3.10
70	1050	11.71	10.77	2.41	14.88	13.69	2.50	18.76	17.22	2.61	22.39	20.31	2.70	26.32	23.06	2.80	30.81	30.81	2.93	36.14	36.14	3.09	42.42	42.42	3.31
	1200	11.94	10.99	2.44	15.13	13.93	2.52	19.13	17.55	2.62	22.65	20.54	2.70	26.63	23.34	2.79	31.21	31.21	2.91	36.62	36.62	3.06	42.62	42.62	3.25
	1350	12.15	11.18	2.47	15.37	14.14	2.54	19.35	17.76	2.64	22.88	20.75	2.71	26.91	23.58	2.80	31.54	31.54	2.91	37.00	37.00	3.06	42.49	42.49	3.24
75	1050	11.23	10.33	2.53	14.42	13.27	2.62	18.01	16.53	2.72	22.09	20.03	2.84	25.96	22.75	2.94	30.36	30.36	3.06	35.58	35.58	3.23	41.77	41.77	3.46
	1200	11.46	10.55	2.56	14.68	13.51	2.64	18.31	16.81	2.73	22.36	20.27	2.83	26.27	23.02	2.92	30.74	30.74	3.04	36.04	36.04	3.19	42.15	42.15	3.40
	1350	11.67	10.74	2.59	14.91	13.72	2.67	18.61	17.08	2.75	22.59	20.48	2.84	26.53	23.24	2.93	31.07	31.07	3.03	36.43	36.43	3.19	42.11	42.11	3.38

See LEGEND following tables.

PD(D,S)342 COOLING EXTENDED PERFORMANCE TABLE

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)		
CFM / BF	EWB °F (°C)	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	
1225 / 0.14	57 (13.9)	38.29	38.29	2.70	36.78	36.78	3.00	35.17	35.17	3.35	33.43	33.43	3.76	31.55	31.55	4.23	29.53	29.53	4.78
	62 (16.7)	39.60	35.26	2.71	37.74	34.27	3.01	35.79	33.19	3.36	33.74	32.00	3.76	31.62	31.62	4.24	29.58	29.58	4.78
	63* (17.2)	40.17	28.70	2.72	38.23	27.80	3.02	36.20	26.84	3.37	34.04	25.81	3.77	31.75	24.73	4.24	29.30	23.57	4.77
	67 (19.4)	43.43	29.99	2.76	41.34	29.07	3.07	39.13	28.10	3.42	36.80	27.07	3.83	34.33	25.98	4.30	31.69	24.82	4.85
	72 (13.9)	47.71	24.52	2.83	45.36	23.64	3.14	42.91	22.69	3.50	40.34	21.70	3.91	37.63	20.65	4.40	34.75	19.54	4.95
1400 / 0.17	57 (13.9)	40.11	40.11	2.76	38.48	38.48	3.06	36.73	36.73	3.42	34.85	34.85	3.83	32.83	32.83	4.31	30.65	30.65	4.86
	62 (16.7)	40.77	37.93	2.77	38.83	36.81	3.07	36.82	36.82	3.42	34.91	34.91	3.83	32.88	32.88	4.31	30.69	30.69	4.86
	63* (17.2)	41.23	30.65	2.77	39.19	29.70	3.07	37.04	28.70	3.42	34.77	27.63	3.83	32.38	26.48	4.29	29.83	25.25	4.83
	67 (19.4)	44.54	32.09	2.82	42.33	31.12	3.12	40.00	30.10	3.48	37.55	29.02	3.89	34.97	27.89	4.37	32.23	26.64	4.91
	72 (13.9)	48.87	25.87	2.89	46.39	24.92	3.20	43.82	23.93	3.56	41.13	22.89	3.98	38.30	21.80	4.46	35.30	20.64	5.02
1575 / 0.19	57 (13.9)	41.67	41.67	2.82	39.92	39.92	3.13	38.04	38.04	3.48	36.04	36.04	3.90	33.89	33.89	4.38	31.57	31.57	4.93
	62 (16.7)	41.78	41.78	2.82	40.00	40.00	3.13	38.10	38.10	3.49	36.09	36.09	3.90	33.94	33.94	4.38	31.61	31.61	4.94
	63* (17.2)	42.07	32.53	2.83	39.93	31.53	3.13	37.70	30.48	3.48	35.35	29.35	3.88	32.87	28.13	4.35	30.26	26.81	4.89
	67 (19.4)	45.42	34.11	2.87	43.10	33.11	3.18	40.66	32.04	3.53	38.14	30.89	3.95	35.47	29.68	4.43	32.65	28.36	4.97
	72 (13.9)	49.79	27.12	2.95	47.20	26.14	3.26	44.53	25.11	3.62	41.74	24.03	4.04	38.81	22.90	4.53	35.71	21.70	5.08

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)342 HEATING EXTENDED PERFORMANCE TABLE −10−60°F (−23.3−15.6°C)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		−10 (−23.3)			0 (−17.8)			10 (−12.2)			20 (−6.7)			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	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	1225	13.54	12.46	2.47	17.47	16.08	2.63	21.96	20.15	2.78	25.98	23.56	2.88	30.54	26.76	2.98	35.78	35.78	3.11	42.01	42.01	3.30	48.77	48.77	3.53
	1400	13.72	12.62	2.48	17.68	16.26	2.64	22.14	20.32	2.77	26.21	23.77	2.86	30.85	27.03	2.95	36.18	36.18	3.07	42.43	42.43	3.24	48.15	48.15	3.46
	1575	13.88	12.77	2.50	17.85	16.43	2.65	22.30	20.47	2.78	26.41	23.95	2.86	31.10	27.25	2.95	36.50	36.50	3.07	42.12	42.12	3.22	47.19	47.19	3.42
70	1225	13.21	12.15	2.61	17.11	15.75	2.77	21.74	19.96	2.92	25.70	23.30	3.02	30.15	26.42	3.12	35.27	35.27	3.25	41.37	41.37	3.44	48.32	48.32	3.70
	1400	13.40	12.33	2.62	17.33	15.95	2.78	21.94	20.14	2.91	25.93	23.52	3.00	30.45	26.68	3.10	35.67	35.67	3.22	41.86	41.86	3.40	47.84	47.84	3.62
	1575	13.57	12.48	2.64	17.52	16.12	2.79	22.13	20.31	2.92	26.14	23.71	3.00	30.72	26.91	3.09	35.97	35.97	3.21	41.84	41.84	3.37	47.03	47.03	3.59
75	1225	12.79	11.77	2.75	16.70	15.37	2.91	21.03	19.31	3.05	25.41	23.05	3.17	29.76	26.07	3.27	34.76	34.76	3.41	40.75	40.75	3.61	47.80	47.80	3.89
	1400	12.99	11.95	2.76	16.93	15.58	2.92	21.59	19.82	3.05	25.64	23.25	3.15	30.06	26.34	3.24	35.15	35.15	3.37	41.24	41.24	3.56	47.49	47.49	3.80
	1575	13.17	12.12	2.79	17.13	15.76	2.93	21.86	20.07	3.06	25.85	23.44	3.15	30.31	26.56	3.23	35.46	35.46	3.35	41.48	41.48	3.53	46.79	46.79	3.76

See LEGEND following tables.

PD(D,S)348 COOLING EXTENDED PERFORMANCE TABLE

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)		
CFM / BF	EWB °F (°C)	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	
1400 / 0.15	57 (13.9)	45.56	45.56	3.20	43.64	43.64	3.58	41.62	41.62	3.98	39.47	39.47	4.41	37.15	37.15	4.90	34.64	34.64	5.46
	62 (16.7)	47.12	41.32	3.21	44.75	40.06	3.59	42.33	38.74	3.99	39.81	37.27	4.42	37.23	37.23	4.91	34.69	34.69	5.46
	63* (17.2)	47.82	33.66	3.21	45.36	32.52	3.59	42.84	31.34	3.99	40.19	30.11	4.42	37.38	28.81	4.91	34.39	27.41	5.46
	67 (19.4)	51.57	35.10	3.22	48.88	33.93	3.62	46.13	32.74	4.02	43.25	31.49	4.46	40.21	30.17	4.95	36.94	28.75	5.49
	72 (13.9)	56.55	28.57	3.23	53.52	27.50	3.64	50.45	26.34	4.06	47.26	25.12	4.51	43.85	23.83	4.99	40.27	22.48	5.53
1600 / 0.18	57 (13.9)	47.60	47.60	3.26	45.50	45.50	3.65	43.31	43.31	4.05	40.98	40.98	4.49	38.48	38.48	4.98	35.76	35.76	5.53
	62 (16.7)	48.40	44.34	3.26	45.91	42.93	3.65	43.41	43.41	4.05	41.04	41.04	4.49	38.53	38.53	4.98	35.81	35.81	5.53
	63* (17.2)	48.97	35.87	3.27	46.36	34.67	3.65	43.69	33.44	4.05	40.92	32.15	4.49	37.98	30.76	4.97	34.88	29.27	5.52
	67 (19.4)	52.75	37.49	3.27	49.90	36.26	3.68	47.00	35.00	4.09	43.98	33.69	4.52	40.79	32.28	5.01	37.41	30.77	5.55
	72 (13.9)	57.75	30.14	3.28	54.58	28.93	3.70	51.36	27.71	4.13	48.01	26.44	4.57	44.45	25.09	5.06	40.74	23.69	5.59
1800 / 0.21	57 (13.9)	49.32	49.32	3.32	47.06	47.06	3.71	44.71	44.71	4.12	42.23	42.23	4.56	39.55	39.55	5.05	36.65	36.65	5.59
	62 (16.7)	49.55	49.16	3.32	47.14	47.14	3.71	44.77	44.77	4.12	42.28	42.28	4.56	39.60	39.60	5.05	36.70	36.70	5.59
	63* (17.2)	49.85	38.00	3.32	47.12	36.74	3.71	44.35	35.44	4.11	41.47	34.07	4.55	38.44	32.60	5.03	35.24	30.98	5.57
	67 (19.4)	53.64	39.78	3.32	50.67	38.49	3.73	47.66	37.17	4.15	44.52	35.78	4.59	41.22	34.28	5.07	37.75	32.65	5.60
	72 (13.9)	58.69	31.53	3.33	55.39	30.29	3.76	52.04	29.02	4.18	48.54	27.70	4.63	44.88	26.31	5.12	41.06	24.85	5.65

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)348 HEATING EXTENDED PERFORMANCE TABLE −10−60°F (−23.3−15.6°C)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		−10 (−23.3)			0 (−17.8)			10 (−12.2)			20 (−6.7)			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	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)	1400	15.76	14.50	2.95	20.36	18.74	3.07	25.22	23.15	3.20	31.05	28.16	3.36	36.22	31.73	3.50	41.94	41.94	3.65	48.55	48.55	3.83	56.41	56.41	4.05
	1600	16.01	14.73	2.98	20.64	18.99	3.09	25.55	23.46	3.21	31.36	28.44	3.35	36.59	32.06	3.48	42.42	42.42	3.61	49.17	49.17	3.77	57.12	57.12	3.95
	1800	16.24	14.94	3.02	20.90	19.23	3.12	25.85	23.73	3.23	31.63	28.69	3.37	36.92	32.35	3.48	42.84	42.84	3.60	49.72	49.72	3.74	57.48	57.48	3.90
70 (21.1)	1400	15.26	14.04	3.08	19.85	18.27	3.20	24.68	22.65	3.33	30.13	27.32	3.48	35.80	31.37	3.65	41.40	41.40	3.81	47.87	47.87	4.00	55.58	55.58	4.24
	1600	15.52	14.28	3.11	20.14	18.53	3.22	25.04	22.98	3.34	30.99	28.11	3.50	36.16	31.68	3.63	41.87	41.87	3.78	48.48	48.48	3.94	56.38	56.38	4.15
	1800	15.76	14.50	3.15	20.41	18.78	3.25	25.33	23.25	3.36	31.28	28.37	3.51	36.49	31.97	3.63	42.28	42.28	3.76	49.01	49.01	3.91	56.82	56.82	4.09
75 (23.9)	1400	14.68	13.51	3.22	19.29	17.74	3.34	24.12	22.14	3.47	29.34	26.61	3.63	35.38	31.00	3.82	40.85	40.85	3.98	47.21	47.21	4.18	54.77	54.77	4.43
	1600	14.95	13.76	3.25	19.59	18.03	3.36	24.47	22.46	3.48	29.76	26.99	3.62	35.73	31.31	3.79	41.31	41.31	3.94	47.80	47.80	4.12	55.56	55.56	4.35
	1800	15.19	13.98	3.29	19.85	18.27	3.39	24.78	22.74	3.51	30.19	27.38	3.63	36.07	31.60	3.79	41.72	41.72	3.93	48.30	48.30	4.09	56.12	56.12	4.28

See LEGEND following tables.

PD(D,S)360 COOLING EXTENDED PERFORMANCE TABLE

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)		
CFM / BF	EWB °F (°C)	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	
1750 / 0.19	57 (13.9)	56.42	56.42	3.97	54.09	54.09	4.39	51.60	51.60	4.86	48.89	48.89	5.40	45.87	45.87	6.01	42.60	42.60	6.70
	62 (16.7)	58.00	51.82	3.99	55.15	50.34	4.40	52.19	48.67	4.87	49.10	48.72	5.40	45.94	45.94	6.01	42.66	42.66	6.70
	63* (17.2)	58.78	42.05	4.00	55.87	40.69	4.41	52.77	39.25	4.88	49.45	37.72	5.41	45.84	36.06	6.01	42.01	34.26	6.69
	67 (19.4)	63.34	43.86	4.05	60.17	42.48	4.47	56.78	41.02	4.94	53.14	39.45	5.46	49.23	37.77	6.06	45.09	35.96	6.74
	72 (13.9)	69.39	35.42	4.13	65.81	34.15	4.55	62.02	32.72	5.02	57.99	31.19	5.54	53.69	29.56	6.13	49.14	27.85	6.80
1850 / 0.20	57 (13.9)	56.94	56.94	3.99	54.57	54.57	4.41	52.03	52.03	4.88	49.27	49.27	5.42	46.23	46.23	6.03	42.88	42.88	6.72
	62 (16.7)	58.33	52.61	4.01	55.44	51.08	4.42	52.47	49.35	4.89	49.36	49.36	5.42	46.30	46.30	6.03	42.94	42.94	6.72
	63* (17.2)	59.07	42.62	4.02	56.12	41.24	4.43	53.00	39.80	4.90	49.63	38.25	5.42	45.98	36.56	6.03	42.13	34.74	6.71
	67 (19.4)	63.63	44.47	4.08	60.42	43.08	4.49	57.00	41.60	4.96	53.31	40.02	5.48	49.37	38.31	6.08	45.20	36.48	6.75
	72 (13.9)	69.68	35.83	4.15	66.07	34.51	4.57	62.25	33.07	5.04	58.17	31.52	5.56	53.84	29.88	6.15	49.25	28.16	6.82
2250 / 0.27	57 (13.9)	60.87	60.87	4.19	58.14	58.14	4.61	55.23	55.23	5.08	52.05	52.05	5.62	48.61	48.61	6.22	44.88	44.88	6.90
	62 (16.7)	60.95	60.95	4.19	58.23	58.23	4.61	55.31	55.31	5.08	52.12	52.12	5.62	48.67	48.67	6.22	44.93	44.93	6.90
	63* (17.2)	61.07	47.50	4.19	57.83	46.01	4.61	54.45	44.43	5.07	50.81	42.69	5.60	46.95	40.79	6.19	42.89	38.69	6.87
	67 (19.4)	65.61	49.74	4.25	62.14	48.23	4.67	58.42	46.60	5.13	54.47	44.84	5.66	50.28	42.93	6.25	45.90	40.82	6.92
	72 (13.9)	71.73	39.07	4.33	67.82	37.60	4.75	63.70	36.05	5.21	59.34	34.41	5.74	54.72	32.67	6.32	49.88	30.83	6.98

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)360 HEATING EXTENDED PERFORMANCE TABLE −10−60°F (−23.3−15.6°C)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																					
		−10 (−23.3)			0 (−17.8)			10 (−12.2)			20 (−6.7)			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	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	1750	19.26	17.72	3.62	24.88	22.89	3.77	30.79	28.26	3.91	37.20	33.74	4.06	44.98	39.41	4.26	51.96	51.96	4.43	60.02	60.02	4.64	69.62	69.62	4.91
	1800	19.34	17.79	3.63	24.98	22.98	3.78	30.90	28.37	3.92	37.33	33.85	4.07	45.09	39.50	4.26	52.09	52.09	4.42	60.19	60.19	4.62	69.84	69.84	4.89
	2250	20.06	18.45	3.75	25.74	23.69	3.88	31.75	29.14	4.00	38.31	34.75	4.12	45.93	40.25	4.28	53.12	53.12	4.41	61.48	61.48	4.58	71.51	71.51	4.81
70	1750	18.37	16.90	3.77	24.01	22.09	3.92	30.00	27.54	4.08	36.36	32.98	4.24	44.47	38.96	4.46	51.32	51.32	4.63	59.22	59.22	4.85	68.63	68.63	5.12
	1800	18.45	16.97	3.78	24.11	22.18	3.93	30.11	27.64	4.09	36.49	33.09	4.24	44.58	39.06	4.45	51.43	51.43	4.63	59.39	59.39	4.83	68.85	68.85	5.10
	2250	19.15	17.62	3.90	24.92	22.93	4.04	30.96	28.41	4.17	37.44	33.95	4.30	45.42	39.80	4.47	52.45	52.45	4.61	60.65	60.65	4.79	70.47	70.47	5.02
75	1750	17.44	16.04	3.93	23.12	21.27	4.09	29.18	26.78	4.26	35.57	32.26	4.43	43.08	37.74	4.63	50.66	50.66	4.85	58.44	58.44	5.07	67.67	67.67	5.35
	1800	17.52	16.12	3.94	23.22	21.36	4.10	29.28	26.88	4.27	35.70	32.37	4.43	43.34	37.97	4.64	50.78	50.78	4.84	58.60	58.60	5.05	67.87	67.87	5.33
	2250	18.19	16.73	4.06	23.99	22.07	4.21	30.13	27.65	4.35	36.62	33.21	4.48	44.87	39.31	4.68	51.79	51.79	4.82	59.83	59.83	5.00	69.45	69.45	5.24

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 = Wet−bulb temperature corresponding to enthalpy air leaving evaporator coil (^{h}lwb)

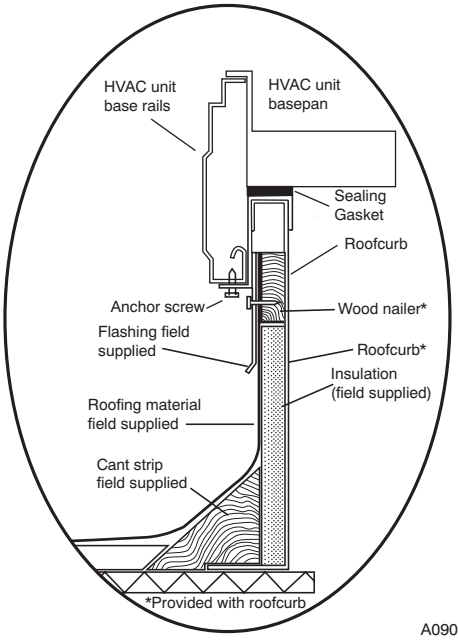
$$^{h}lwb = {}^{h}ewb - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{cfm}}$$

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

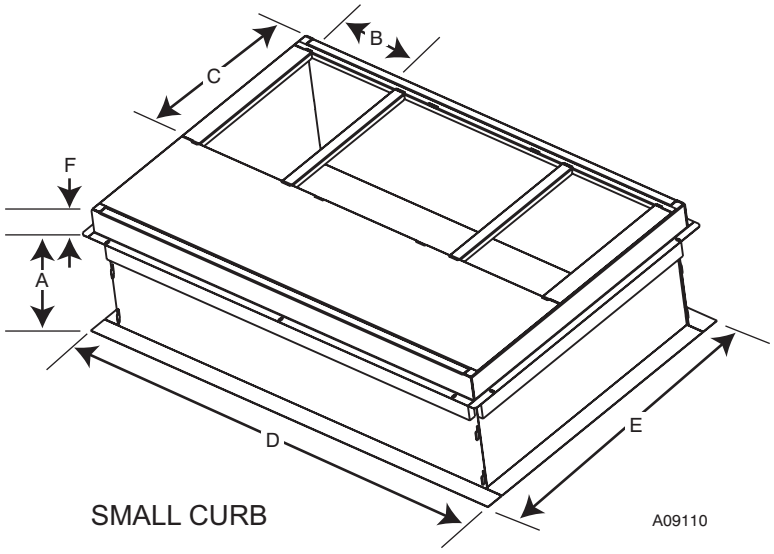
4. The SHC is based on 80°F (26.7 °C) edb temperature of air entering evaporator coil. Below 80°F (26.7°C) edb, subtract (corr factor x cfm) from SHC. Above 80°F (26.7°C) edb, add (corr factor x cfm) to SHC.
Correction Factor = 1.10 x (1 + BF) x (edb + 80).
5. Integrated capacity is maximum (instantaneous) capacity less the effect of frost on the outdoor coil and the heat required to defrost it.

ACCESSORIES

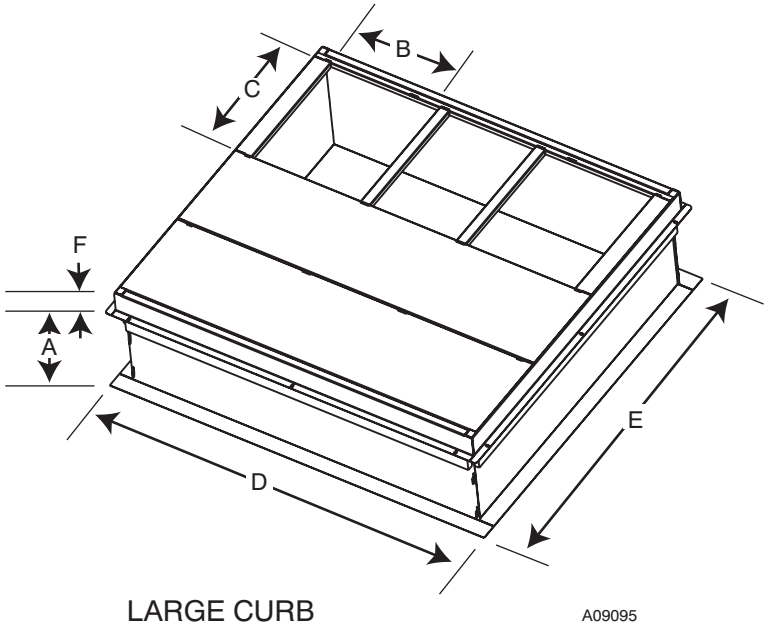
ROOF CURBS



ROOF CURB DETAIL



SMALL CURB



LARGE CURB

UNIT SIZE	CATALOG NUMBER	A IN. (mm)	B IN. (mm)*	C IN. (mm)	D IN. (mm)	E IN. (mm)	F IN. (mm)
Small	CPRFCURB010A00	11 (279)	10 (254)	16 (406)	47.8 (1214)	32.4 (822)	2.7 (69)
	CPRFCURB011A00	14 (356)					
Large	CPRFCURB012A00	11 (279)	14 (356)			43.9 (1116)	
	CPRFCURB013A00	14 (356)					

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.

IMPORTANT: Do not install large base pan Dual Fuel units onto the small base pan (common curb). The center of gravity on a large base pan Dual Fuel unit could overhang the curb causing an unsafe condition. Before installing any large base pan unit onto the common curb, check the “Y” distance in the dimensional drawing to ensure that “Y” is greater than 14 in. (356 mm). Do not install any large base pan unit onto the common curb with a “Y” dimension(center of gravity) less than 14 in. (356 mm).

ACCESSORIES (continued)

ROOF CURBS

Model Number	Description	Use With Model Size
CPRFCURB010A00	Roof Curb, 11” High	24 − 36
CPRFCURB011A00	Roof Curb, 14” High	24 − 36
CPRFCURB012A00	Roof Curb, 11” High	42 − 60
CPRFCURB013A00	Roof Curb, 14” High	42 − 60

Note: CPRFCURB010A00 AND CPRFCURB011A00 can be used with 42−60 size units with some overhang.

ADAPTER CURBS*

CPADCURB001A00	Adapter curb for use with NPRFCURB006A00 & NPRFCURB007A00	24 − 36
CPADCURB002A00	Adapter curb for use with NPRFCURB008A00 & NPRFCURB009A00	42 − 60

* Can also be used when replacing other manufacturer’s older generation units that contain a composite base without a metal base rail.

CONCENTRIC ADAPTERS − (Use with curb only)

NPCONADP001A00	For 18” round duct (use with curbs CPRFCURB010A00, CPRFCURB011A00)	Small Curb
NPCONADP002A00	For 18” round duct (use with curbs CPRFCURB012A00, CPRFCURB013A00)	Large Curb

CONCENTRIC DIFFUSERS − (Ceiling or under roof))

AXB020CSA*	Step Down Diffuser − Fits 2’ x 4’ Ceiling Grid (16” round collars for flex conn.)	24 − 42
AXB020CFA*	Flush Mount Diffuser − Fits 2’ x 4’ Ceiling Grid (16” round collars for flex conn.)	24 − 42
AXB030CSA	Step Down Diffuser − Fits 2’ x 4’ Ceiling Grid (18” round collars for flex conn.)	24 − 60
AXB030CFA	Flush Mount Diffuser − Fits 2’ x 4’ Ceiling Grid (18” round collars for flex conn.)	24 − 60

* A field supplied 18” to 16” round reducer required when used with NP concentric adaptor

ECONOMIZERS

Model Number	Description	Use With Model Size
CPECOMZR007A00	Dedicated Vertical Economizer − Internal with solid state controller, gear driven, fully modulating damper, spring return actuator, up to 50% barometric relief, supply and dry bulb outdoor air sensors. Includes filter rack with 1” filters*.	24 − 36
CPECOMZR008A00		42, 48
CPECOMZR009A00		60
CPECOMZR010A00	Dedicated Horizontal Economizer − Internal with solid state controller, fully modulating damper, spring return actuator, supply and dry bulb outdoor air sensor, and low ambient compressor lockout switch included. Includes filter rack with 1−inch filters*.	24 − 36
CPECOMZR011A00		42, 48
CPECOMZR012A00		60
CPRLYKIT001A00	Economizer relay for heat pumps	ALL
AXB078ENT	Outdoor Enthalpy Control	24 − 60

* Outdoor enthalpy available as field installed accessory; Filter rack and 1” filter, same as CPFILTRK kit

MANUAL FRESH AIR DAMPERS

Model Number	Description	Use With Model Size
CPMANDPR007A00	Manual Outside Air Damper − (Includes filter rack and 1” filter, same as CPFILTRK kit)	24 − 36
CPMANDPR008A00		42, 48
CPMANDPR009A00		60

INTERNAL FILTER RACK and FILTER (shipped with 1” filters)

Model Number	Description	Use With Model Size
CPFILTRK007A00	Internal Filter Rack	24 − 36
CPFILTRK008A00		42, 48
CPFILTRK009A00		60

LOW AMBIENT, ANTI−CYCLE TIMER, COMPRESSOR START ASSIST

CPLOWAMB001A00	Low Ambient Control − enables cooling system to operate down to 0 Deg. F by cycling condenser fan on and off.	ALL
NRTIMEGD001A00	Five Minute Compressor Delay	ALL
NPHSTART002A00	PTC Compressor Start Assist Kit	ALL

ACCESSORIES (continued)

CRANKCASE HEATER − BELLY BAND TYPE

NPCRKHTR008A00	240V Crankcase Heater	24 − 36
NPCRKHTR004A00	240V Crankcase Heater (included on 60 size)	42, 48

GAS CONVERSION KITS		
Model Number	**Description**	**Use With Model Size**
NPLPCONV013A00	Natural Gas to Propane Conversion Kit (0 − 2000')	ALL
NPLPCONV014A00	Natural Gas to Propane Conversion Kit (2001' − 6000)	
NPNGCONV004A00	Propane to Natural Gas Conversion Kit (0 − 2000')	

FLUE DISCHARGE DEFLECTOR		
Model Number	**Description**	**Heat Input (BTU/h)**
NRFLUEDS001A00	Directs flue gas exhaust 90 degrees upward from current discharge. Designed to allow tighter distances between unit and combustible surfaces. 24 inch Height. AGA certified.	40,000 − 130,000

HAIL GUARD / COIL PROTECTION (Factory installed on PDS models)		
Model Number	**Description**	**Use With Model Size**
NAPA00501GR	3/8" spacing dense wire grilles	24 − 36
NAPA00601GR	3/8" spacing dense wire grilles	42 − 48
NAPA01001GR	3/8" spacing dense wire grilles	60

DUCT TRANSITIONS		
Model Number	**Description**	**Use With Model Size**
NPDUCFLG002A00	Square to Round (1 set of 2, use with horizontal duct flanges only)	24 − 48

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM	CENTER OF GRAVITY IN/MM					
		LB	KG	"A"	X		Y		Z	
24040/060	208/230-1-60	352	159.6	41-15/16	22-1/16	560.388	14-5/16	363.538	18	457.2
30040/060	208/230-1-60	365	165.7	41-15/16	22-1/16	560.388	14-5/16	363.538	18	457.2
36060/090	208/230-1-60	372	168.6	41-15/16	22-1/16	560.388	14-5/16	363.538	18	457.2

UNITS	VOLTAGE	CORNER WEIGHT LB/KG							
		"1"		"2"		"3"		"4"	
24040/060	208/230	52.8	24.0	70.4	31.9	105.5	47.9	123.1	55.9
30040/060	208/230	54.8	24.9	73.1	33.2	109.6	49.7	127.8	58.0
36060/090	208/230	55.8	25.3	74.4	33.8	111.5	50.6	130.1	59.1

REQUIRED CLEARANCES TO COMBUSTIBLE MATL. INCHES [MM]

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]
FLUE PANEL	36 [914.4]

NEC. REQUIRED CLEARANCES. INCHES [MM]

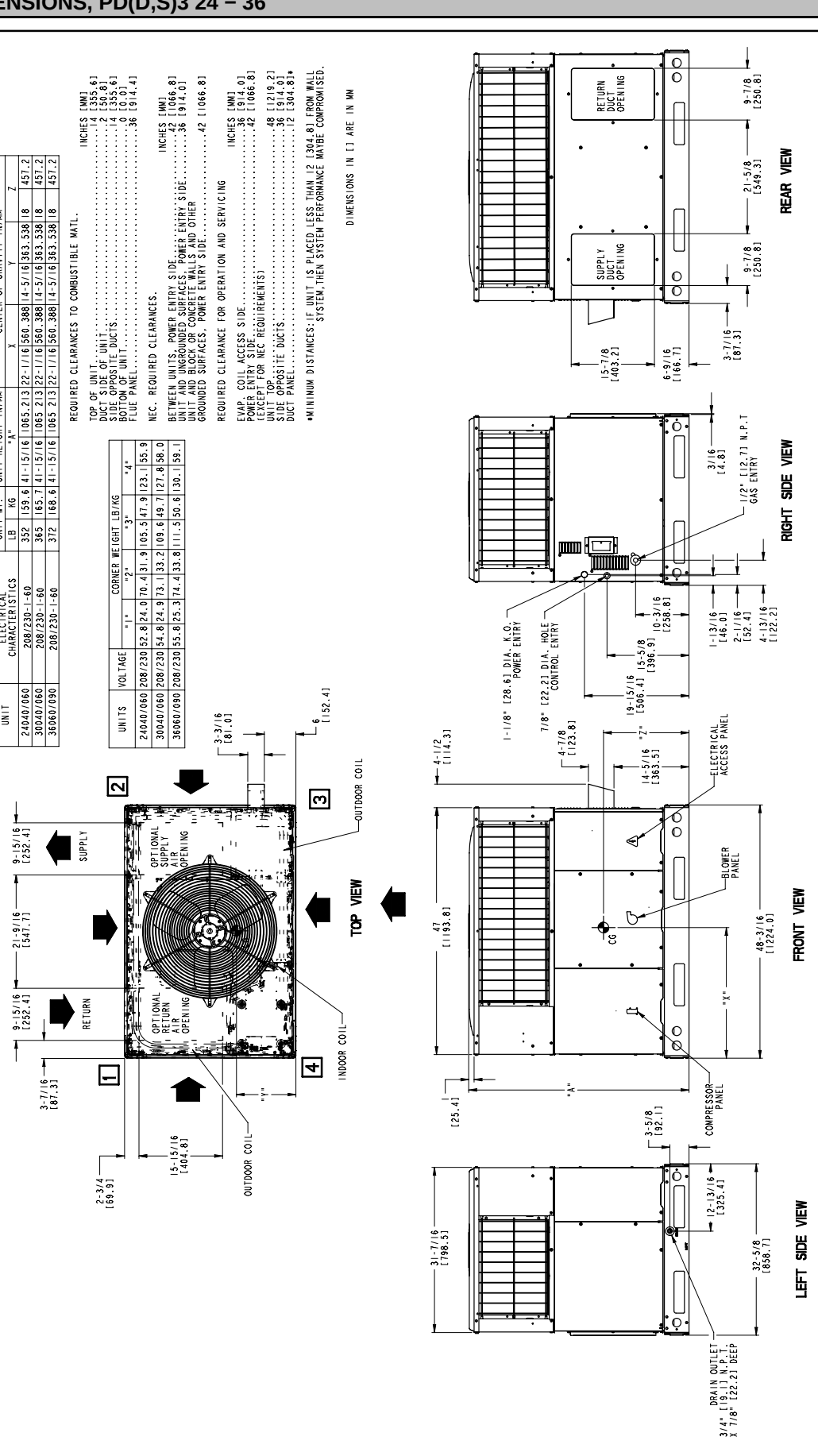
BETWEEN UNITS, POWER ENTRY SIDE	42 [1066.8]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE	36 [914.0]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING INCHES [MM]

EVAP. COIL ACCESS SIDE	36 [914.0]
POWER ENTRY SIDE (EXCEPT FOR NEC REQUIREMENTS)	42 [1066.8]
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 MM



UNIT DIMENSIONS, PD(D,S)3 42 − 60

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM	CENTER OF GRAVITY IN/MM		
		LB	KG	"A"	X	Y	Z
42060/090	208/230-1-60	453	205.4	45-7/8 | 1165.225	22-1/6 | 560.338	17	431.8 | 17 | 431.8
48090/115/130	208/230-1-60	474	215.1	45-7/8 | 1165.225	22-1/6 | 560.338	17	431.8 | 17 | 431.8
60090/115/130	208/230-1-60	498	226.0	49-7/8 | 1266.825	22-1/6 | 560.338	17	431.8 | 18 | 457.2

UNITS	VOLTAGE	CORNER WEIGHT LB/KG							
		"1"		"2"		"3"		"4"	
42060/090	208/230	67.9	30.8	90.5	41.1	135.8	61.7	158.5	71.9
48090/115/130	208/230	71.1	32.3	94.8	43.1	142.3	64.6	166.0	75.4
60090/115/130	208/230	74.7	33.9	99.6	45.2	149.5	67.9	174.4	79.2

REQUIRED CLEARANCES TO COMBUSTIBLE MATL. INCHES [MM]

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]
FLUE PANEL	36 [914.4]

NEC. REQUIRED CLEARANCES. INCHES [MM]

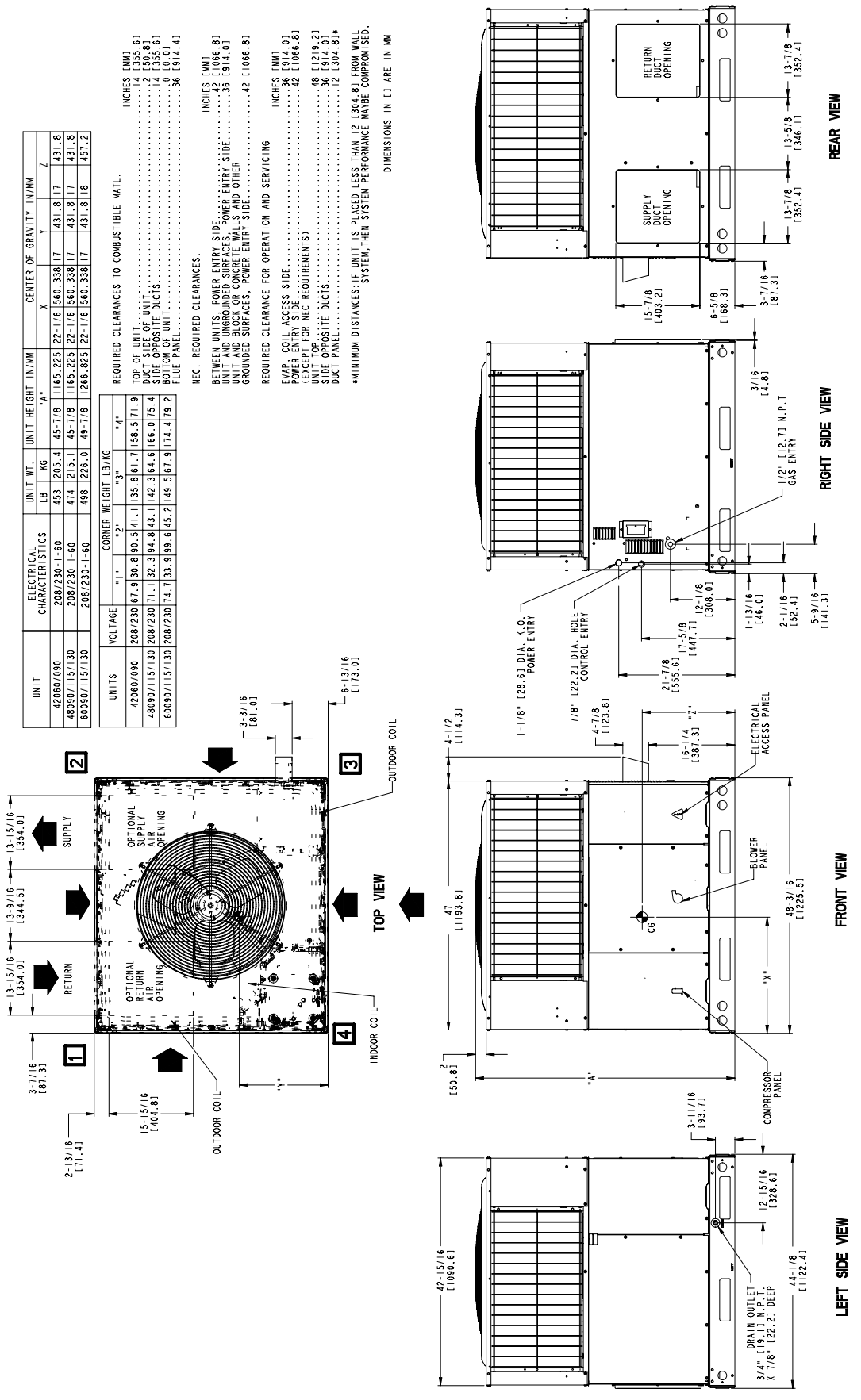
BETWEEN UNITS, POWER ENTRY SIDE	42 [1066.8]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE	36 [914.0]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING INCHES [MM]

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 PERFORMANCE MAYBE COMPROMISED.

DIMENSIONS IN [ ] ARE IN MM



CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

NOTES:

1. IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED, THEY MUST BE REPLACED WITH THE SAME WIRE OR ITS EQUIVALENT.
2. USE 75 DEG. COPPER CONDUCTORS FOR FIELD INSTALLATION.
3. SEE INSTALLATION INSTRUCTIONS FOR PROPER HEATING AND COOLING CONNECTIONS FOR YOUR UNIT. INDOOR FAN MOTOR PLUGS - "DO NOT DISCONNECT UNDER LOAD"
4. ON SMALL BASE MODELS LS1 AND LS2 ARE WIRED IN SERIES. LARGE BASE MODELS HAVE LS1 ONLY.
5. INDUCER CAPACITOR AND WIRING ON CERTAIN MODELS ONLY. IF CAP2 IS PRESENT, YELLOW WIRES FROM IGC AND IDM CONNECT ON SAME SIDE OF CAP2.
6. THIS FUSE IS MANUFACTURED BY LITTELFUSE, P/N 257003.
7. THIS FUSE IS MANUFACTURED BY LITTELFUSE, P/N 257005.

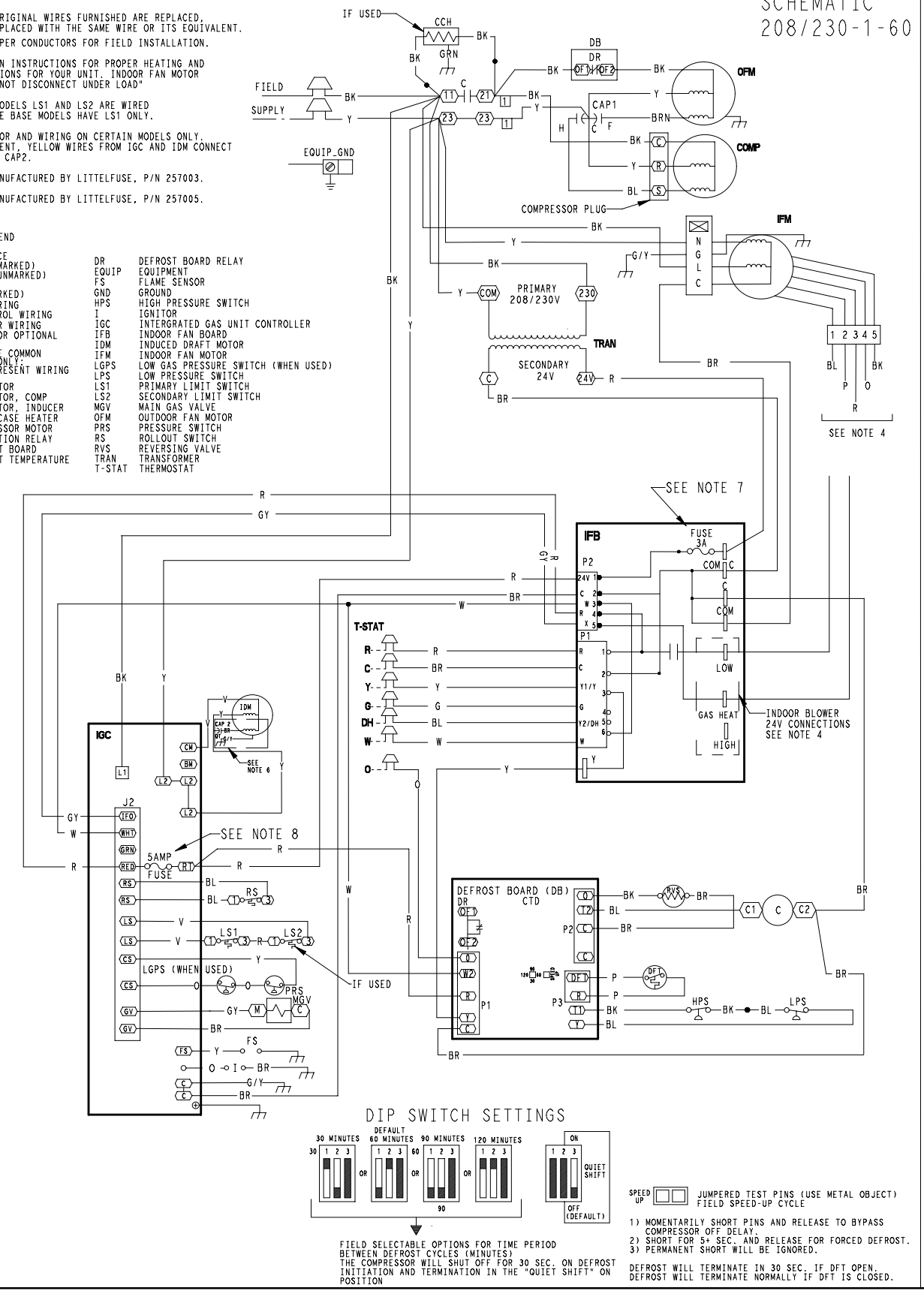
SCHEMATIC
208/230-1-60

LEGEND

△	FIELD SPLICE	DR	DEFROST BOARD RELAY
⬭	TERMINAL (MARKED)	EQUIP	EQUIPMENT
○	TERMINAL (UNMARKED)	FS	FLAME SENSOR
●	SPLICE	GND	GROUND
⬭	SPLICE (MARKED)	HPS	HIGH PRESSURE SWITCH
——	FACTORY WIRING	I	IGNITOR
– –	FIELD CONTROL WIRING	IGC	INTERGRATED GAS UNIT CONTROLLER
—–	FIELD POWER WIRING	IFB	INDOOR FAN BOARD
– – –	ACCESSORY OR OPTIONAL WIRING	IDM	INDUCED DRAFT MOTOR
——	TO INDICATE COMMON POTENTIAL ONLY; NOT TO REPRESENT WIRING	IFM	INDOOR FAN MOTOR
		LGPS	LOW GAS PRESSURE SWITCH (WHEN USED)
		LPS	LOW PRESSURE SWITCH
C	CONTACTOR	LS1	PRIMARY LIMIT SWITCH
CAP 1	CAPACITOR, COMP	LS2	SECONDARY LIMIT SWITCH
CAP 2	CAPACITOR, INDUCER	MGV	MAIN GAS VALVE
CCH	CRANK CASE HEATER	OFM	OUTDOOR FAN MOTOR
COMP	COMPRESSOR MOTOR	PRS	PRESSURE SWITCH
CR	COMBUSTION RELAY	RS	ROLLOUT SWITCH
DB	DEFROST BOARD	RVS	REVERSING VALVE
DFT	DEFROST TEMPERATURE SWITCH	TRAN	TRANSFORMER
		T-STAT	THERMOSTAT

COLOR CODE

BK	BLACK
BL	BLUE
BR	BROWN
GY	GRAY
G	GREEN
O	ORANGE
P	PINK
R	RED
V	VIOLET
W	WHITE
Y	YELLOW



DIP SWITCH SETTINGS

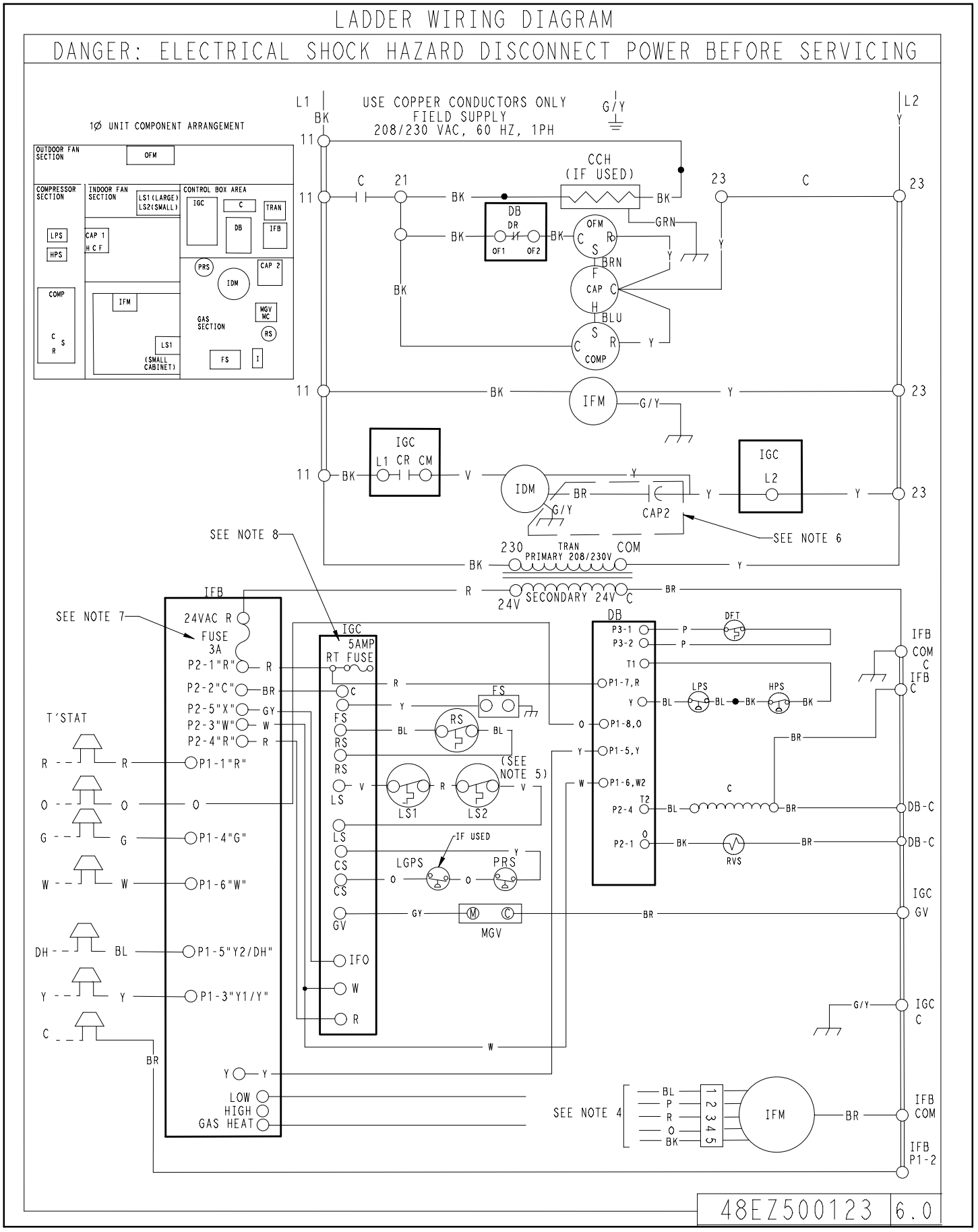
FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)
THE COMPRESSOR WILL SHUT OFF FOR 30 SEC. ON DEFROST INITIATION AND TERMINATION IN THE "QUIET SHIFT" ON POSITION

SPEED UP — JUMPERED 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.

LADDER WIRING DIAGRAM, 208/230−1−60



CONTROLS

Operating sequence

When power is supplied to unit, the transformer (TRAN) is energized.

On units with crankcase heater, heater is also energized.

Cooling — With the thermostat subbase in the cooling position, the thermostat makes circuit “R” to “O”. This energizes the reversing valve solenoid (RVS) and places the unit in standby condition for cooling.

As the space temperature rises, the thermostat closes circuit “R” to “Y1/Y”. A circuit is made to contactor (C), starting the compressor (COMP) and outdoor−fan motor (OFM). Circuit “R” to “G” is made at the same time and starts the indoor−fan motor (IFM).

On the loss of the thermostat call for cooling, 24 V is removed from both the “Y1/Y” and “G” terminals (provided the fan switch is in the “AUTO” position) de−energizing the compressor contactor and opening the contacts supplying power to compressor/OFM. After a 90−second delay, the IFM shuts off. If the thermostat fan selector switch is in the “ON” position, the IFM will run continuously.

Heating − On a call for heating, terminal “W” of the thermostat is energized, starting the induced−draft motor. When the pressure switch senses that the induced−draft motor is moving sufficient combustion air, the burner sequence begins. This function is performed by the integrated gas unit controller (IGC). The indoor (evaporator)−fan motor is energized 45 sec after flame is established. When the thermostat is satisfied and “W” is de−energized, the burners stop firing and the indoor (evaporator) fan motor shuts off after a 45−sec time−off delay. Please note that the IGC has the capability to automatically reduce the indoor fan motor on delay and increase the indoor fan motor off delay in the event of high duct static and/or partially−clogged filter.

Heat Pump Heating — On a call for heat, thermostat makes circuits “R” to “Y1/Y” and “R” to “G”.

A circuit is made to C, starting COMP and OFM. Circuit “R” to “G” is also completed, starting IFM.

Defrost — Defrost board (DB) is a time and temperature control, which includes a field−selectable time period (dip switch 1 and 2 on the board) between checks for defrost (30, 60, 90, or 120 minutes). Electronic timer and defrost cycle start only when contactor is energized and defrost thermostat (DFT) is closed.

The defrost board is also equipped with a third dip switch for selecting Quiet Shift operation. The Quiet Shift operation turns compressor off at defrost initiation and termination. Unit is factory shipped with quiet shift turned off.

Defrost mode is identical to cooling mode. except outdoor fan motor stops and gas heat turns on to warm air supplying the conditioned space. After defrost cycle, gas heat stays on to meet the demand cycle.

NOTE:

1. Compressor time delay occurs through the defrost control board.
2. Defrost control board has built in 5 minute compressor delay; once the compressor has started and then stopped, it cannot be restarted again until 5 minutes have elapsed.