

FEATURES

EFFICIENCY

- 2 thru 5 tons Cooling, 40,000 thru 150,000 BTUH Heating

SINGLE PACKAGE

- Combination gas heating and electric cooling, self contained for year-round-comfort. Systems installed on rooftop or ground level. The unit is shipped in the horizontal position and can easily be converted to downflow.

CONSTRUCTION

- 20 gauge galvanized-painted cabinet. One piece weather resistant top. Access panels for easy service. Side by side supply and return. Heavy gauge base with rails.

CABINET

- Triple-coated steel, consisting of a Polyester top coat, a urethane primer coat preceded by an oxide pretreatment.

COMPRESSOR

- All models are equipped with high efficiency scroll compressor.

SLIDE-OUT BLOWER HOUSING

- Specially designed track enhances evaporator motor and blower serviceability.

IMPROVED INSULATION

- Dual density insulation improves temperature separation.

COPPER TUBE/ALUMINUM FIN COILS

- Enhanced aluminium fins mechanically bonded to copper tubes for improved heat transfer.

METERING DEVICE

- Thermostat Expansion Valve (TXV) controls refrigerant flow, maintaining evaporator superheat for maximum efficiency.

ELECTRICAL AND GAS CONTROLS

- Located behind one exterior panel for easier maintenance.
- Electronic pilot ignition device (HSP).
- Adjustable electronic fan control with optional low speed continuous fan feature responds quickly to circulate heated air and provide maximum comfort.

INDUCED DRAFT COMBUSTION SYSTEM

- For smoother combustion and optimal efficiency.

ALUMINIZED TUBULAR HEAT EXCHANGER

- Tubular design delivers efficient heat transfer and air flow: aluminized coating protects against corrosion.

IN-SHOT BURNERS

- New design delivers more complete, efficient combustion.

EXTERNALLY-MOUNTED GAUGE PORTS

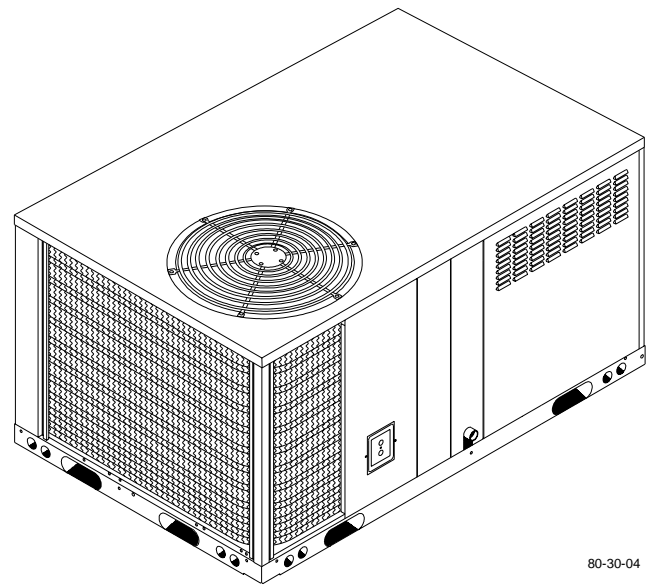
- Allows for more accurate reading of operating conditions while servicing.

INTEGRAL BASE RAILS

- Fork-lift access on three sides. Holes provided for lifting lugs makes rooftop installation easier.

COIL GUARD

- Standard on all models.



80-30-04



Rated in accordance with ARI Standard 210.



OPTIONAL FIELD INSTALLED ACCESSORIES

- Roof Curb
- Low ambient kit
- LP Kits
- Economizer
- Air filter rack
- Low Fire Kits
- Hail guard

UNIT SPECIFICATIONS

MODEL NUMBER	Electrical Data			Condenser Data									
	208 / 230 Voltage Phase - Hz	HACR Breaker / Max. Fuse	Ampacity	Coil			Fan Motor			Fan			
				Total Face Area (Sq. Ft.)	Fins Per In. / Rows	Tube Diameter (In.)	Horsepower	Full Load Amps	Locked Rotor Amps	Size Diameter (In.)	Degree Pitch	RPM (Max.)	CFM (Max.)
PGME24G040	1-60	25 amps.	17.9	11.47	20 / 1	3/8	1/6	1.0	3.57	20.0	18	1100	2250
PGME24G090	1-60	25 amps.	18.1				1/6	1.0	3.57	20.0	18	1100	2250
PGME30G090	1-60	30 amps.	20.5	11.47	20 / 1	3/8	1/3	1.3	4.04	20.0	25	1120	3000
PGME36G090	1-60	40 amps.	25.0	11.45	20 / 2	3/8	1/3	1.3	4.04	20.0	25	1120	3000
PGME36G115	1-60	40 amps.	25.0	11.12			1/3	1.3	4.04	20.0	25	1120	3000
PGME42G090	1-60	50 amps.	31.0	17.10	20 / 2	3/8	1/2	1.8	6.42	22.0	22	1140	3500
PGME42G115	1-60	50 amps.	31.0	16.41			1/2	1.8	6.42	22.0	22	1140	3500
PGME48G090	1-60	50 amps.	35.8	17.10	20 / 2	3/8	1/2	1.8	6.42	22.0	22	1140	3500
PGME48G135	1-60	50 amps.	36.0	16.41			1/2	1.8	6.42	22.0	22	1140	3500
PGME60G115	1-60	70 amps.	42.9	17.10	20 / 2	3/8	1/2	1.8	6.42	22.0	22	1140	3500
PGME60G150	1-60	70 amps.	43.9	16.41			1/2	1.8	6.42	22.0	22	1140	3500

MODEL NUMBER	Evaporator Coil										Compressor		Factory Refrigerant Charge R-22 Oz.	Ship. Weight (Lbs.)	Sound Rating
	Coil			Blower H.P. / Type / Speeds	Motor		Blower			Run Load Amps	Locked Rotor Amps				
	Total Face Area (Sq. Ft.)	Fins Per In. / Rows	Tube Diameter (In.)		Full Load Amps	Locked Rotor Amps	Type & Size	RPM (Max.)	CFM Rated						
PGME24G040	3.56	14 / 3	3/8	1/4 / PSC / 4	2.1	3.08	DD10-6A	1000	850	11.4	56.0	73	376	7.8	
PGME24G090				1/3 / PSC / 3	2.3	4.10	DD10-8A	1000		11.4	56.0	73	380		
PGME30G090	3.56	14 / 4	3/8	1/3 / PSC / 3	2.3	4.10	DD10-8A	1000	1000	15.0	72.5	78	392	7.8	
PGME36G090	3.56	14 / 4	3/8	1/2 / PSC / 3	3.6	7.50	DD11-9A	1075	1200	17.9	88.0	102	429	7.6	
PGME36G115				DD11-9A			1075						439		
PGME42G090	8.22	14 / 3	3/8	1/2 / PSC / 4	4.4	8.63	DD10-9	1075	1400	19.9	104	180	559	8.2	
PGME42G115													560		
PGME48G090	8.22	14 / 4	3/8	1/2 / PSC / 4	4.4	8.63	DD10-9	1075	1650	23.7	129	215	603	7.8	
PGME48G135				1.0 / PSC / 3	4.6	7.94	DD11-11	1000					630		
PGME60G115	8.22	14 / 4	3/8	1.0 / PSC / 4	5.0	8.80	DD11-11	1000	1800	28.8	169	215	626	8.0	
PGME60G150				1.0 / PSC / 4	6.0	15.14		1100					636		

PERFORMANCE DATA: HEATING

MODEL NUMBER	Input (MBTUH)		Output (MBTUH)		Efficiency *				Temperature Rise ° F	Gas Piping Size (In.)	Transformer Size Va.
	Standard	Low Fire Kit ¹	Standard	Low Fire Kit ¹	DOE (AFUE)		Calif. (CSE)				
					Std.	LFK	Std.	LFK			
PGME24G040	40	--	31	--	80.0	--	74.8	--	30-60	1/2	40
PGME24G090	90	75	70	59	80.1	80.2	76.8	76.7	45-75	1/2	40
PGME30G090	90	75	70	59	80.1	80.2	76.8	76.7	45-75	1/2	40
PGME36G090	90	75	70	59	80.2	80.0	75.9	75.4	35-65	1/2	40
PGME36G115	115	95	90	75	80.0	80.4	76.5	76.7	45-75	1/2	40
PGME42G090	90	75	71	60	80.8	81.5	75.7	76.2	30-60	1/2	40
PGME42G115	115	95	90	75	80.1	80.2	75.2	75.5	35-65	1/2	40
PGME48G090	90	75	71	60	80.8	81.5	75.8	76.2	30-60	1/2	40
PGME48G135	135	110	106	87	80.4	80.7	76.1	76.9	35-65	1/2	40
PGME60G115	115	95	91	75	80.8	80.9	77.0	75.8	30-60	1/2	40
PGME60G150	150	130	119	102	80.8	80.1	76.0	75.7	35-65	1/2	40

¹ Field conversion kit available for lower fire rate (Natural Gas only).

* As determined by D.O.E. Annual Fuel Utilization Efficiency (A.F.U.E.) Rating Test. Heating capacity valid for elevations up to 2,000 feet above sea level. For elevations above 2,000 feet, rated capacity

should be reduced by 4% for each 1,000 feet above sea level. All models meet California C.S.E. and NOx standards.

PERFORMANCE DATA: COOLING

MODEL NUMBER	Rated Capacity ¹ BTUH	S / T Ratio	S.E.E.R.	E.E.R. ³	Power Input Watts	Evaporator Rated Airflow (SCFM)	Ext. Static Pressure Drop ² Wet
PGME24G040	23,200	.75	12.10	10.21	2350	850	.15
PGME24G090							
PGME30G090	30,000	.74	12.10	10.30	2910	1000	.40
PGME36G090	34,400	.77	12.05	10.10	3405	1200	.20
PGME36G115							.30
PGME42G090	41,500	.77	12.10	10.35	4008	1400	.34
PGME42G115							
PGME48G090	48,000	.78	12.10	10.08	4760	1650	.31
PGME48G135							
PGME60G115	58,500	.73	12.05	9.71	6022	1800	.38
PGME60G150							

¹ Rated Capacity @ 230 Volts. For applications at 208 volts deduct 1000 BTUH. ² Includes a .08 drop for a filter ³ For reference only

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

BLOWER PERFORMANCE DATA

Model Number	Motor Speed	Air Delivery in CFM * External Static Pressure (in. W.C.)					
		.20	.30	.40	.50	.60	.70
PGME24G040	HI	995	960	925	880	835	780
	MED HI	825	805	775	745	705	660
	MED LO	725	705	675	650	615	570
	LO	620	605	585	565	530	485
PGME24G090 30G090	HI	1175	1120	1055	990	920	840
	MED	955	915	870	815	755	685
	LO	790	760	730	690	645	585
PGME36G090	HI	1435	1375	1310	1245	1175	1105
	MED	1270	1220	1165	1100	1045	990
	LO	1110	1080	1045	1005	955	905
PGME36G115	HI	1645	1580	1515	1450	1385	1315
	MED HI	1490	1440	1385	1330	1270	1210
	MED LO	1295	1270	1235	1195	1145	1095
	LO	1070	1055	1040	1020	990	955
PGME42G090 42G115 48G090	HI	1860	1795	1725	1650	1570	1485
	MED HI	1735	1680	1620	1560	1485	1405
	MED LO	1540	1505	1465	1415	1350	1280
	LO	1460	1430	1395	1345	1290	1225
PGME48G135	HI	2185	2125	2065	2010	1950	1875
	MED	1805	1775	1735	1690	1635	1580
	LO	1685	1660	1625	1585	1540	1485
PGME60G115	HI	2250	2190	2125	2060	1990	1915
	MED HI	2090	2045	1995	1935	1875	1805
	MED LO	1650	1630	1600	1565	1525	1475
	LO	1315	1300	1280	1255	1225	1185
PGME60G150	HI	2400	2325	2250	2170	2085	2000
	MED HI	2335	2270	2200	2125	2050	1965
	MED LO	2205	2145	2080	2015	1940	1865
	LO	2095	2040	1985	1920	1855	1780

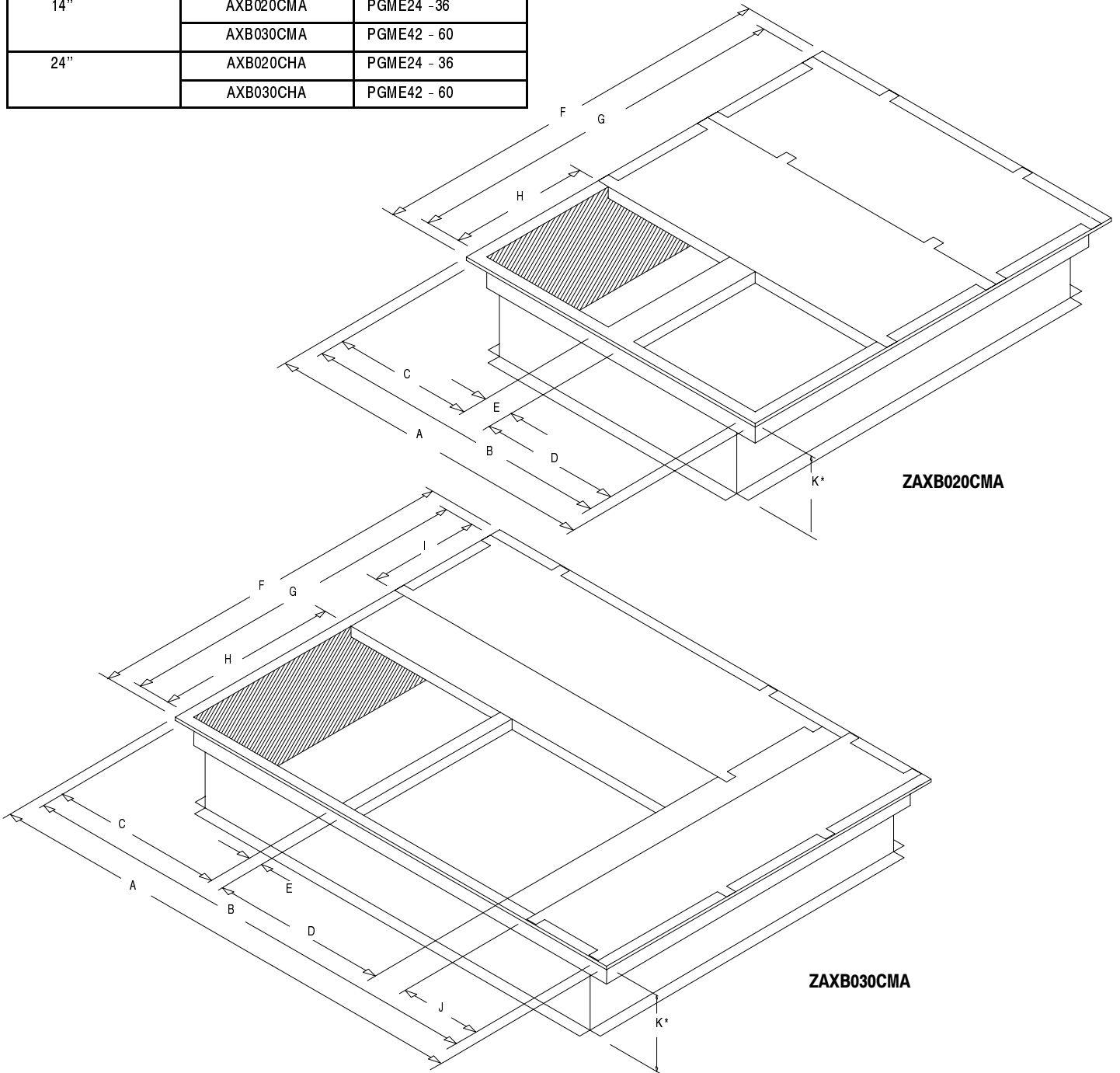
Air delivery against shown external static pressures taken with 230V to unit and dry coil. For wet coil subtract approximately 25 CFM. Add .08 static for internal filters.

* Dry coil, no filter.

ACCESSORIES: ROOF CURBS

These curbs are designed specifically for use with our combination gas/electric units. They are constructed of heavy gauge steel and designed for water tight installation.

Description	Mainline Model Number	Used on
8"	AXB020CLA	PGME24 - 36
	AXB030CLA	PGME42 - 60
14"	AXB020CMA	PGME24 - 36
	AXB030CMA	PGME42 - 60
24"	AXB020CHA	PGME24 - 36
	AXB030CHA	PGME42 - 60



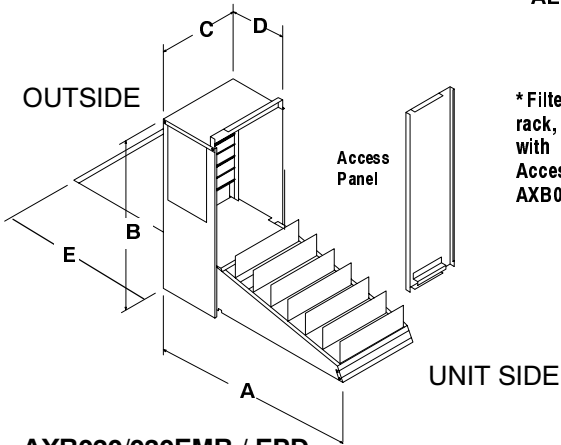
ROOF CURB DIMENSIONS (INCHES)

Model No.	A	B	C	D	E	F	G	H	I	J	K**
AXB020CMA	42-3/4	39-3/4	18	18	3-3/4	42-3/4	39-3/4	18	-	-	14
AXB030CMA	67-3/4	64-3/4	23	23	2-1/2	42-3/4	39-3/4	23	12	12	14

** ROOF CURBS ARE ALSO AVAILABLE IN 8" AND 24" HEIGHTS (K DIMENSIONS)

ECONOMIZERS/DOWNFLOW

ALL DIMENSIONS IN INCHES



* Filter access panel, filter rack, and filter are included with AXB020 economizer. Access Panel Only with AXB030.

**AXB020/030EMB / EPD
(Modulating or Three Position)**

Economizer Model No.	A	B	C	D	E
AXB020EMB/PD	29	27-1/2	12-3/4	10-7/8	22
AXB030EMB/PD	35	31	14-3/4	10-7/8	22

Description	Model Number	Used on
Fully Modulating (1)	AXB020EMB	PGME 24-36
Three Position (2)	AXB020EPD	
Entry Level Three Position (3)	AXB020ECA	

NOTES:

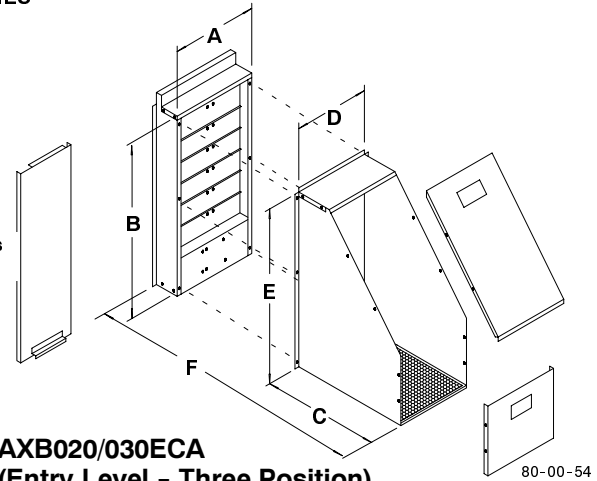
- (1) - Ambient/Enthalpy Control; Includes Return Air Damper & Relief Damper.
- (3) - Ambient Control Only; No Return Air Damper; No Relief Damper.

All Economizers Feature Enthalpy and/or ambient temperature control providing outdoor air ventilation and "free cooling" when outdoor conditions are favorable.

Return Air and Pressure Relief dampers for proper air balance, on most models.

Interconnecting wiring furnished.

Center controlled dual action dampers with gaskets to provide proper seal.



**AXB020/030ECA
(Entry Level - Three Position)**

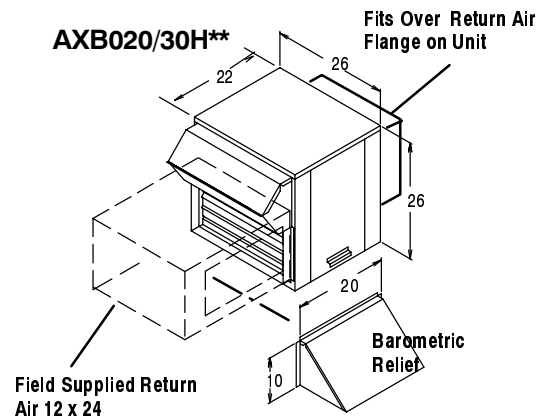
80-00-54

Economizer Model No.	A	B	C	D	E	G
AXB020ECA	12-3/4	27-1/2	20-1/4	11	28-1/2	24
AXB030ECA	14-3/4	31	20-1/4	13	30	24

Description	Model Number (4)	Used on
Fully Modulating (1)	AXB030EMB	PGME 42-60
Three Position (2)	AXB030EPD	
Entry Level Three Position (3)	AXB030ECA	

- (2) - Ambient Control Only; Includes Return Air Damper & Relief Damper.
- (4) - For AXB030 Filters field supplied 20" x 30" x 2" (2 needed). Filter retainers can be ordered thru Service Parts, part number 1054517.

ECONOMIZERS/HORIZONTAL



Description	Model Number	Used on
Fully Modulating (1)	AXB020HEB	PGME 24-36
Three Position (2)	AXB020HPD	

Description	Model Number	Used on
Fully Modulating (1)	AXB030HEB	PGME 42-60
Three Position (2)	AXB030HPD	

NOTES:

- (1) - Ambient/Enthalpy Control; Includes Return Air Damper & Relief Damper.
- (2) - Ambient Control Only; Includes Return Air Damper & Relief Damper.

ACCESORIES (CONT...)

OUTDOOR AIR DAMPERS

Description	Model Number	Used on
Manual - 25%	AXB020FAC	3 TON
	AXB030FAC	3-1/2 to 5 TON
Motorized - 25%	AXB020FMC	3 TON
	AXB030FMC	3-1/2 to 5 TON

FILTER RACK - must use with outdoor air dampers

Description	Model Number	Used on
* Downflow	AXB020FKA	3 TON
* Horizontal	AXB020FHC	3 TON

* Requires 1 field supplied 18 x 25" filter.

COIL PROTECTION

Description	Service Parts Number *	Used on
Coil Guard	1149485	3 TON
	1149486	3-1/2 to 5 TON
Hail Guard	1065316	3 TON
	1065342	3-1/2 to 5 TON

* Available through Service Parts only.

LOW FIRE KITS (NATURAL GAS ONLY)

Description Standard Heat Input	Service Parts Number *	New Low Fire Heat Input
90,000 BTUH Kit	1148135	75,000 BTUH
115,000 BTUH Kit	1148136	95,000 BTUH
135,000 BTUH Kit	1148137	110,000 BTUH
150,000 BTUH Kit	1148138	130,000 BTUH

* Available through Service Parts only.

FOSSIL FUEL CONVERSION

Description	Service Parts Number	Used On Heat Input
Natural to LP Gas *	1149744	90 MBTUH
	1149745	115 MBTUH
	1149746	135 MBTUH
	1149747	150 MBTUH
Natural to LP Gas **	1084495	90 MBTUH
	1084496	115 MBTUH
	1084497	135 MBTUH
	1084498	150 MBTUH
LP to Natural Gas	1148142	90, 115, 135, & 150 MBTUH

* These kits convert all gas package units manufactured up to date code L9741.

** These kits will convert all gas package units manufactured up to date code L9741 and remove the turbulators in these units. These kits will also convert all gas packages manufactured after L9742 till current date.

CONCENTRIC DUCT KITS

Description	Mainline Model Number	Used on
Transition	AXB020CTA	3 TON
	AXB030CTA	3-1/2 to 5 TON
Grille, Flush Mount *	AXB020CFA	3 TON
	AXB030CFA	3-1/2 to 5 TON
Grille, Step Down *	AXB020CSA	3 TON
	AXB030CSA	3-1/2 to 5 TON

* Includes grille and diffuser / transtion box.

LOW AMBIENT CONTROLS

Description	Model Number *	Used on
To 0° F	1148232	3 TON

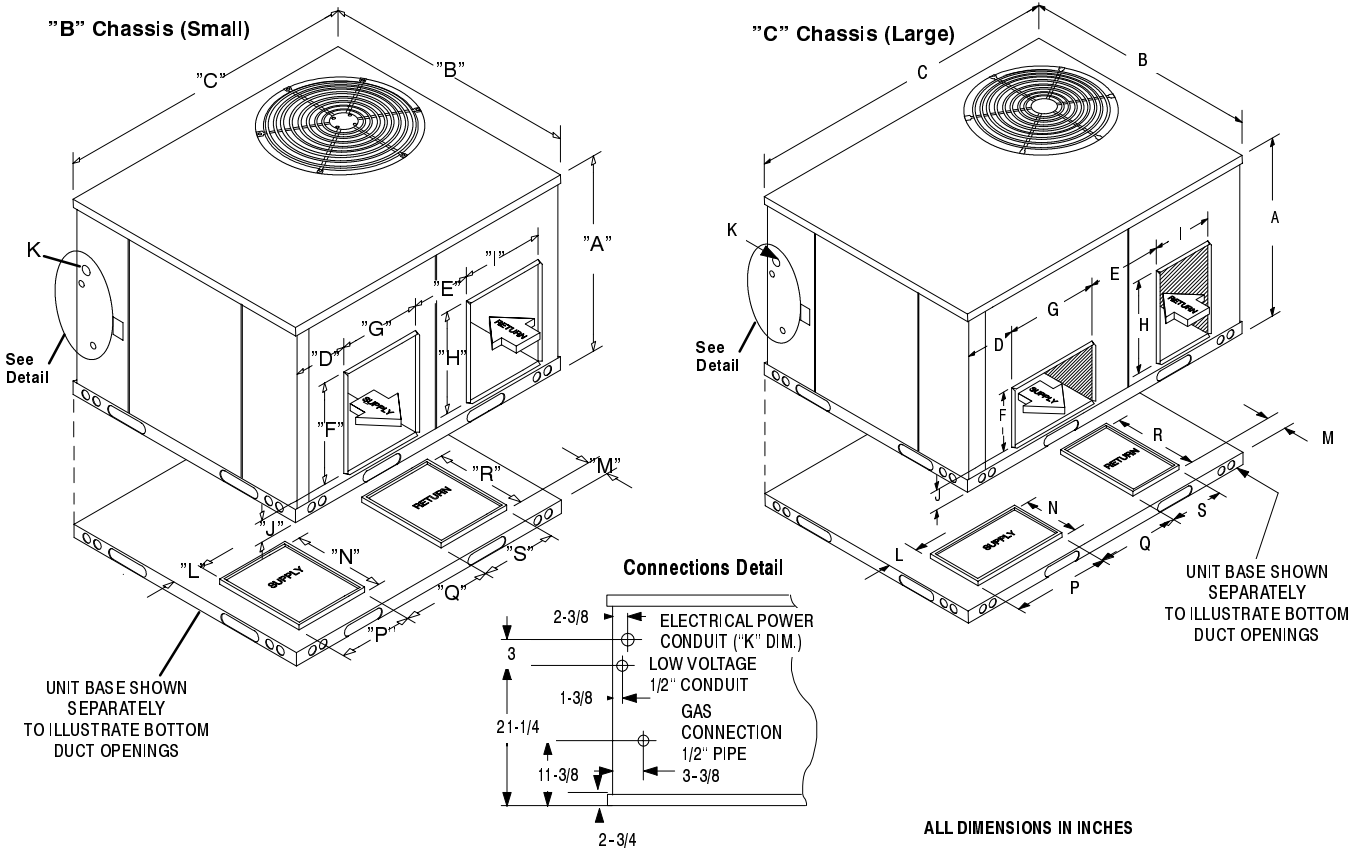
* Available through Service Parts only.

INTERNAL FILTERS AND ACCESSORIES

Description	Model Number *	Used on
Filter Retainer (2 Req.)	1054517	3-1/2 to 5 TON
Filter (2 Req.)	1054503	3-1/2 to 5 TON
Handle, Filter Access Panel	1068209	3-1/2 to 5 TON

* Available through Service Parts only.

UNIT DIMENSIONS



Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N**	P**	Q	R	S	Inside Base Rail
PGME24-36	32-1/2	47-3/8	47-3/8	3-1/8	11-1/8	12	14-1/4	14-1/4	12	4	3/4 - 1	4-1/4	4-3/8	14-1/2	12-1/4	12-1/8	14-1/4	12-1/4	43-1/8 x 43-1/8
PGME48-60	36	47-3/8	73	4-5/8	15	12	18-3/4	18-3/4	12	4	1 - 1-1/4	4-1/4	5-1/4	12-1/4	19	15	19	12-1/4	68-3/4 x 43-1/8

* NOTE: The base rail width is 2-1/8 inches, all around base of unit.

MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER	P	G	M	E	24	G	060
PRODUCT FAMILY P = Single Package							GAS HEAT INPUT 040 = 40,000 115 = 115,000 060 = 60,000 135 = 135,000 090 = 90,000 150 = 150,000
FUEL (Heating) G = Gas							
MULTI-POSITION							ELECTRICAL CHARACTERISTICS G = 208 / 230-1-60
DESIGN SERIES E = Ultra-High Efficiency							COOLING CAPACITY (NOMINAL BTUH) 18 = 1-1/2 Ton 42 = 3-1/2 Ton 24 = 2 Ton 47 = 4 Ton 30 = 2-1/2 Ton 60 = 5 Ton 36 = 3 Ton

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

GUIDE SPECIFICATIONS

CABINET

The cabinet is made of G-90 galvanized steel, phosphate coated with a tough acrylic finish coat for long lasting weatherproof construction. The base rails are 18 gauge steel with fork lift slots and holes provided for lifting shackles. The unit is designed with convertible airflow for either horizontal or downflow applications with conversion accomplished by relocating two panels. Indoor blower compartment interior cabinet surfaces are insulated with a minimum 3/4" thick, flexible glass insulation, coated on the air side. Aluminum foil faced glass fiber insulation is used in the furnace compartment.

COOLING SECTION

The unit is factory charged and operationally ready upon delivery. The unit refrigerant circuit has a high efficiency fully hermetic compressor with internal overload protection, and copper tube / aluminum fin evaporator and condenser coils. The unit is designed for cooling operation to 40° F and will be capable of being wired for field installed economizer type accessories.

COILS

The evaporator and condenser coils are fabricated with aluminum fins mechanically bonded to copper tubing. Both coils are pressure tested prior to

assembly into the unit and electronically leak tested after assembly into the unit.

CONDENSER FAN

The unit has a single direct-drive propeller-fan / motor assembly. The assembly is mounted directly to a vertical-discharge grille that is easily removed for service. Motors are 1100 RPM with sleeve or ball bearings and internal overload protection.

EVAPORATOR BLOWER

All units have a direct-drive evaporator blower motor as a standard. The direct-drive evaporator blower motor has sleeve bearings and internal overload protection.

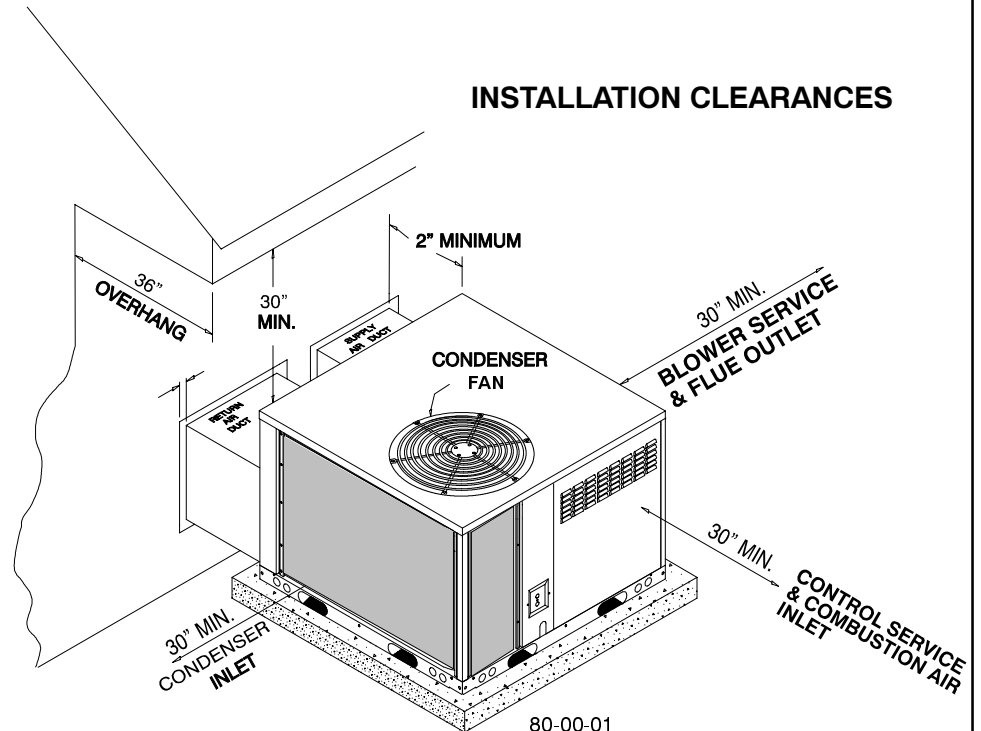
HEATING SECTION

The gas-fired heating section features an induced draft blower for combustion air. The unit has an aluminized steel tubular heat exchanger located on the discharge air side of the blower. The system uses in-shot burners ignited by a hot surface pilot ignition system, protected by both a high heat limit switch and flame roll-out switch. The induced draft blower motor is interlocked with a proven air pressure safety device.

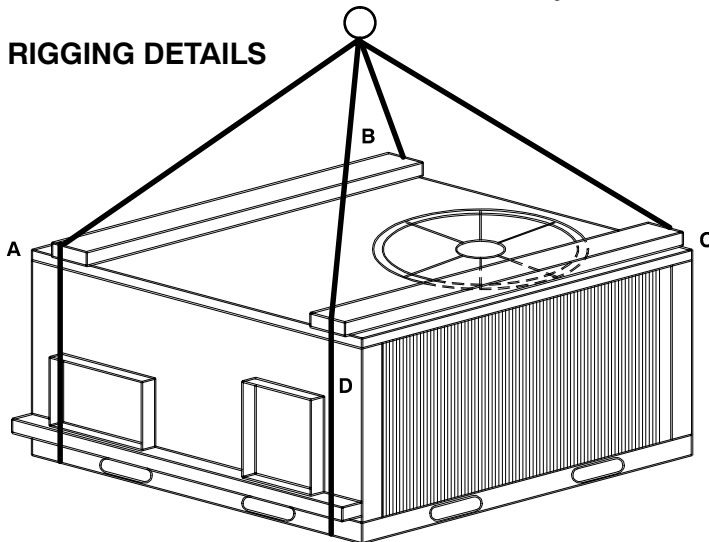
AGENCY CERTIFICATIONS



INSTALLATION CLEARANCES



RIGGING DETAILS



CORNER WEIGHTS (LBS)

MODEL	A	B	C	D	OPERATING WEIGHT TOTAL
PGME24	85	116	112	83	396
PGME30	87	119	119	87	412
PGME36	88	110	125	99	422
PGME42	125	156	156	125	562
PGME48	130	161	161	130	582
PGME60	137	169	169	137	612