

PRODUCT SPECIFICATIONS



Air Conditioning & Heating

GPG12 SERIES 12 SEER/80% AFUE

Self-Contained Packaged Gas/Electric

2 – 5 Ton
Single-Phase

Cooling Capacities: 24,000 to 56,000 BTUH
Heating Capacities: 46,000 to 115,000 BTUH



The GPG12 packaged gas/electric unit allows for ground-level or rooftop mount, horizontal or downflow application.

Standard Features

- High-efficiency compressor
- Copper tube/aluminum fin coil
- Liquid line filter drier
- Fully charged R-22 system
- Durable, corrosion-resistant T-140 aluminized steel tubular heat exchanger
- Redundant gas valve, natural gas and easy conversion to propane
- Power-assisted combustion
- Direct spark ignition system, which includes a microprocessor-based control for the entire ignition sequence, all blower operation and all safety circuits complete with self-diagnostics
- All GPG12 models fit in a standard-size pick-up truck (47" wide)
- Horizontal or downflow application
- One roof curb fits all units
- California low NOx approved

Cabinet Construction

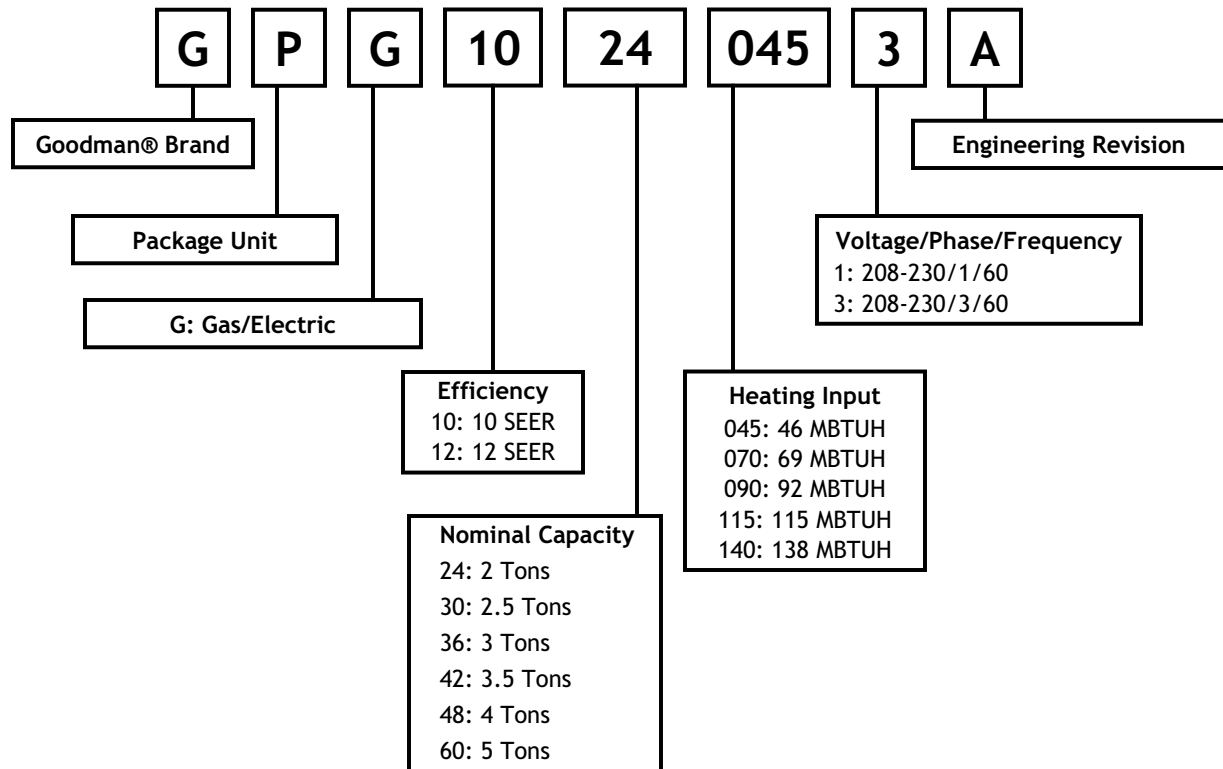
- Convenient access panels
- High-quality UV-resistant powder-paint finish
- Fully insulated
- Bottom, 2" high base rails for easier handling
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds

Accessories

- Roof curb
- 25% manual and motorized fresh air dampers
- Downflow and horizontal economizers
- Square to round converter
- L.P. Conversion Kit
- Room Thermostat
- See page 7 for a complete listing of accessories



Nomenclature



PRODUCT SPECIFICATIONS

Specifications

	GPG12240451A	GPG12240701A	GPG12300701A	GPG12360701A	GPG12360901A	GPG12420701A
Total Cooling Capacity, BTUH	24,000	24,000	29,000	35,800	35,800	40,600
Sensible Cooling Capacity, BTUH	18,200	18,200	22,600	27,800	27,800	31,600
EER ¹	10.6	10.6	10.6	10.4	10.4	10.4
SEER	12.0	12.0	12.0	12.0	12.0	12.0
Sound Rating, dba	76.0	76.0	76.0	76.0	76.0	76.0
Heating Input, BTUH (US)	46,000	69,000	69,000	69,000	92,000	69,000
Heating Output, BTUH (US)	36,700	55,000	55,000	55,000	72,900	55,000
AFUE	80.0	80.0	80.0	80.0	80.0	80.0
Temperature Rise	30 - 60	35 - 65	35 - 65	35 - 65	45 - 75	35 - 65
Number of Burners	2	3	3	3	4	3
Orifice Size Natural/Propane	43/55	43/55	43/55	43/55	43/55	43/55
Indoor Blower						
Type	DD	DD	DD	DD	DD	DD
Blower Wheel (D x W)	10" x 8"	10" x 8"	10" x 8"	10" x 9"	10" x 9"	11" x 10"
Nominal CFM (ID)	800	800	1,000	1,250	1,250	1,400
Motor Speed Tap (Cooling)	Low	Low	Med-Lo	Med-Hi	Med-Hi	Med
RPM/Amps (Cooling)	970/1.1	970/1.1	1,000/1.4	1,070/1.7	1,070/1.7	940/2.5
Horsepower/RPM	1/3/1,080	1/3/1,080	1/3/1,080	1/3/1,080	1/3/1,080	3/4/1,100
Evaporator Coil						
Face Area (ft ²)	3.67	3.67	3.67	4.33	4.33	4.33
Rows Deep/Fins per Inch	3/14	3/14	4/14	4/14	4/14	4/14
Piston Size (Cooling)	0.059	0.059	0.062	0.071	0.071	0.078
Filter Size (ft ²)	2.7	2.7	3.3	4.2	4.2	4.7
Drain Size (NPT)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge	64	64	73	85	85	105
Condenser Fan						
Horsepower/RPM	1/6/850	1/6/850	1/6/850	1/4/1,075	1/4/1,075	1/4/1,075
Fan Diameter/Number of Fan Blades	22/3	22/3	22/3	22/3	22/3	22/3
Nominal CFM (OD)	2,400	2,400	2,400	2,700	2,700	2,700
Condenser Coil						
Face Area (ft ²)	10.5	10.5	10.5	12.4	12.4	12.4
Rows Deep/Fins per Inch	1/19	1/19	1/19	1/19	1/19	2/16
Electrical						
Volts/phase/Frequency	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Compressor RLA/LRA	10.2/51.0	10.2/51.0	10.8/60.0	14.5/82.0	14.5/82.0	19.3/104.0
Indoor Blower FLA/LRA	1.9/3.6	1.9/3.6	1.9/3.6	2.1/3.6	2.1/3.6	2.6/5.0
Outdoor Fan RLA/LRA	0.8/1.7	0.8/1.7	0.8/1.7	1.8/3.8	1.8/3.8	1.8/3.8
Total Unit Amps	10.1	10.1	12.2	15.6	15.6	18.3
Minimum Circuit Ampacity	15.5	15.5	16.2	22.1	22.1	28.6
Maximum Overcurrent Protection ²	20	20	30	30	30	40
Electrical Entrance Size						
Power Supply	1 ¹ / ₈ "	1 ¹ / ₈ "	1 ¹ / ₈ "	1 ¹ / ₈ "	1 ¹ / ₈ "	1 ¹ / ₈ "
Control Voltage	⁷ / ₈ "	⁷ / ₈ "	⁷ / ₈ "	⁷ / ₈ "	⁷ / ₈ "	⁷ / ₈ "
Shipping Weight (lbs)	393	398	404	446	451	479
Operating Weight (lbs)	371	376	382	424	429	457

(1) BTU/Watt @ 80/67 °F inside; 95 °F outside air

(2) HACR breakers may be used in place of fuses up to 60 amps

PRODUCT SPECIFICATIONS

Specifications (cont.)

	GPG12420901A	GPG12480901A	GPG12481151A	GPG12600901A	GPG12601151A
Total Cooling Capacity, BTUH	40,600	47,000	47,000	55,000	55,000
Sensible Cooling Capacity, BTUH	31,600	35,400	35,200	42,800	42,800
EER ¹	10.4	10.6	10.6	10.4	11.0
SEER	12.0	12.0	12.0	12.0	12.0
Sound Rating, dba	76.0	76.0	76.0	76.0	76.0
Heating Input, BTUH (US)	92,000	92,000	115,000	92,000	115,000
Heating Output, BTUH (US)	72,900	72,900	91,200	72,900	91,200
AFUE	80.0	80.0	80.0	80.0	80.0
Temperature Rise	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75
Number of Burners	4	4	5	4	5
Orifice Size Natural/Propane	43/55	43/55	43/55	43/55	43/55
Indoor Blower					
Type	DD	DD	DD	DD	DD
Blower Wheel (D x W)	11" x 10"	11" x 10"	11" x 10"	11" x 10"	11" x 10"
Nominal CFM (ID)	1,400	1,525	1,525	1,900	1,900
Motor Speed Tap (Cooling)	Med	Med	Med	High	High
RPM/Amps (Cooling)	940/2.5	990/3.1	990/3.1	1,080/4.7	1,080/4.7
Horsepower/RPM	3/4/1,100	3/4/1,100	3/4/1,100	3/4/1,100	3/4/1,100
Evaporator Coil					
Face Area (ft ²)	4.33	5.67	5.67	5.67	5.67
Rows Deep/Fins per Inch	4/14	4/14	4/14	4/14	4/14
Piston Size (Cooling)	0.078	0.084	0.084	0.089	0.089
Filter Size (ft ²)	4.7	5.1	5.1	6.3	6.3
Drain Size (NPT)	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge	105	116	116	128	128
Condenser Fan					
Horsepower/RPM	1/4/1,075	1/3/1,075	1/3/1,075	1/3/1,075	1/3/1,075
Fan Diameter/Number of Fan Blades	22/3	22/3	22/3	22/4	22/4
Nominal CFM (OD)	2,700	3,500	3,500	3,500	3,500
Condenser Coil					
Face Area (ft ²)	12.4	15.3	15.3	15.3	15.3
Rows Deep/Fins per Inch	2/16	2/16	2/16	2/16	2/16
Electrical					
Volts/phase/Frequency	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Compressor RLA/LRA	19.3/104.0	18.3/109.0	18.3/109.0	19.9/137.0	19.9/137.0
Indoor Blower FLA/LRA	2.6/5.0	4.7/12.2	4.7/12.2	4.7/12.2	4.7/12.2
Outdoor Fan RLA/LRA	1.8/3.8	2.4/5.2	2.4/5.2	2.4/5.2	2.4/5.2
Total Unit Amps	18.3	19.7	19.7	23.5	23.5
Minimum Circuit Ampacity	28.6	30	30	32	32
Maximum Overcurrent Protection ²	40	40	40	50	50
Electrical Entrance Size					
Power Supply	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
Control Voltage	$\frac{7}{8}$ "	$\frac{7}{8}$ "	$\frac{7}{8}$ "	$\frac{7}{8}$ "	$\frac{7}{8}$ "
Shipping Weight (lbs)	484	540	547	550	557
Operating Weight (lbs)	462	518	525	528	535

(1) BTU/Watt @ 80/67 °F inside; 95 °F outside air

(2) HACR breakers may be used in place of fuses up to 60 amps

PRODUCT SPECIFICATIONS

Evaporator Blower Specifications

GPG12—2- to 2½-Ton Models

Motor Speed	HIGH				MED-HIGH				MED				LOW			
E.S.P.	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps
0.1	1,436	492	995	2.18	1,347	451	960	1.95	1,149	385	844	1.65	935	301	697	1.35
0.2	1,365	474	1,003	2.05	1,292	432	982	1.88	1,111	365	867	1.58	903	293	769	1.29
0.3	1,301	453	1,024	1.98	1,233	419	988	1.81	1,054	349	904	1.53	853	281	812	1.25
0.4	1,227	431	1,042	1.80	1,156	398	1,000	1.74	1,011	340	936	1.47	831	281	866	1.21
0.5	1,149	415	1,057	1.73	1,099	383	1,037	1.67	954	326	978	1.41	780	268	897	1.16
0.6	1,065	395	1,071	1.69	1,014	361	1,041	1.58	890	308	1,004	1.34	717	254	936	1.1
0.7	981	375	1,085	1.65	939	346	1,072	1.52	824	295	1,033	1.28	665	245	965	1.05
0.8	895	354	1,099	1.61	835	322	1,092	1.44	737	276	1,047	1.2	575	228	1,016	0.98

GPG12—3-Ton Models

Motor Speed	HIGH				MED-HIGH				MED				LOW			
E.S.P.	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps
0.1	1,420	485	1,025	2.15	1,365	455	991	1.98	1,200	390	881	1.7	980	310	754	1.37
0.2	1,350	470	1,036	2.09	1,310	430	1,009	1.88	1,145	375	937	1.6	950	300	820	1.3
0.3	1,270	445	1,058	1.98	1,225	410	1,030	1.81	1,095	360	976	1.54	920	295	887	1.27
0.4	1,175	420	1,074	1.91	1,145	390	1,052	1.72	1,015	335	992	1.47	850	280	909	1.21
0.5	1,090	395	1,085	1.82	1,055	365	1,069	1.66	940	320	1,014	1.4	-	-	-	-
0.6	995	380	1,096	1.75	950	350	1,081	1.58	850	305	1,041	1.33	-	-	-	-
0.7	875	355	1,109	1.66	835	325	1,096	1.51	-	-	-	-	-	-	-	-
0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GPG12—3½-Ton Models

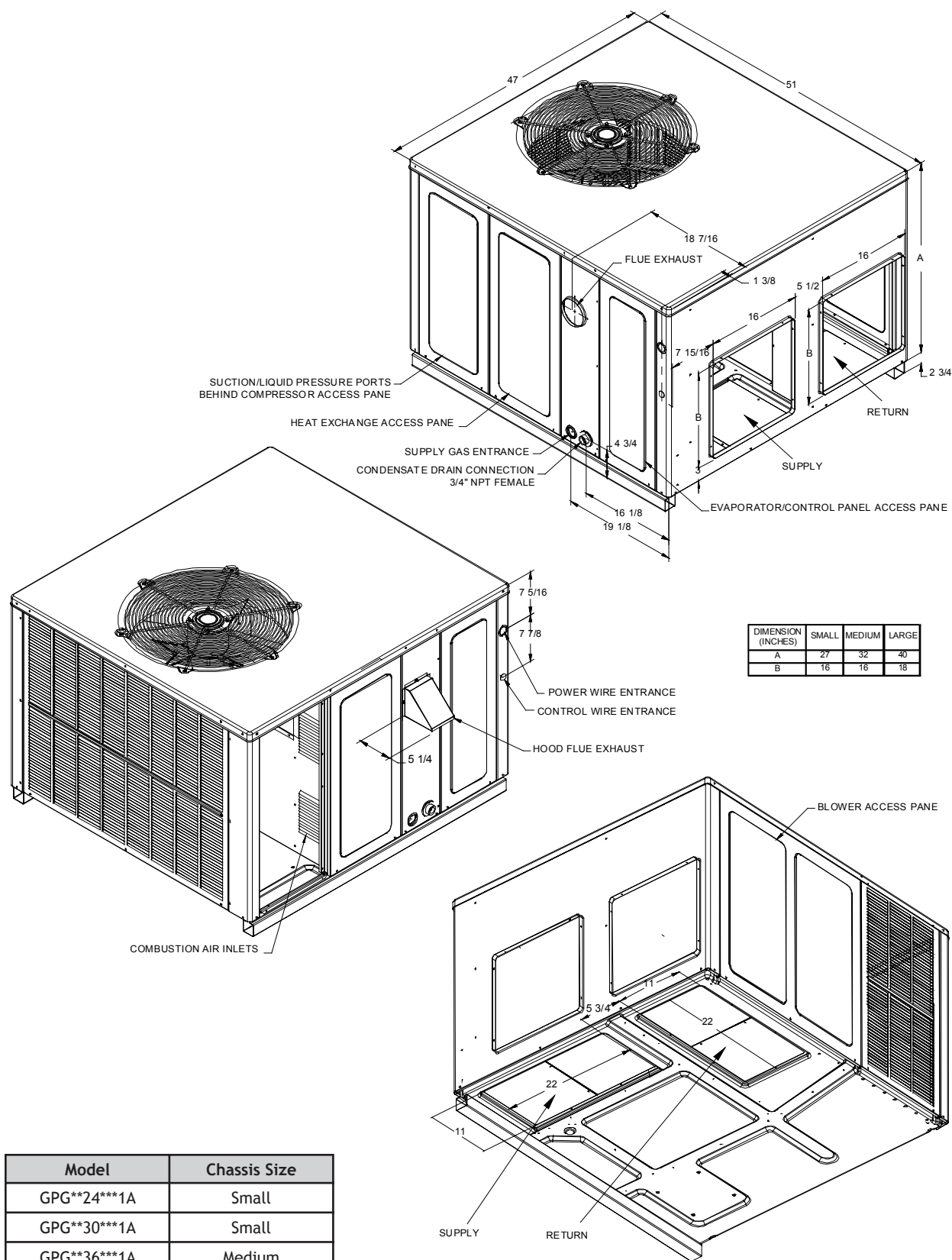
Motor Speed	HIGH				MED				LOW			
E.S.P.	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps
0.1	-	-	-	-	-	-	-	-	-	-	-	-
0.2	1,610	680	960	2.95	1,425	590	879	2.56	1,180	485	781	2.16
0.3	1,545	660	976	2.9	1,365	575	905	2.5	1,140	470	804	2.07
0.4	1,480	645	994	2.78	1,310	555	926	2.42	1,085	455	837	2.01
0.5	1,385	625	1,007	2.71	1,245	545	952	2.35	1,025	445	869	1.95
0.6	1,325	610	1,022	2.65	1,175	525	969	2.28	970	430	900	1.87
0.7	1,250	580	1,033	2.53	1,095	505	989	2.19	-	-	-	-
0.8	1,145	560	1,047	2.43	1,000	485	1,011	2.1	-	-	-	-

GPG12—4- to 5-Ton Models

Motor Speed	HIGH				MED				LOW			
E.S.P.	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps	CFM	Watts	RPM	Amps
0.1	2,287	1,180	1,036	5.52	1,718	857	813	4.02	1,437	731	705	3.49
0.2	2,212	1,152	1,047	5.42	1,662	822	845	3.84	1,415	716	749	3.39
0.3	2,149	1,115	1,058	5.22	1,633	799	869	3.72	1,379	699	793	3.3
0.4	2,077	1,086	1,069	5.11	1,579	770	894	3.58	1,347	681	832	3.19
0.5	1,986	1,049	1,073	4.97	1,517	742	924	3.43	1,305	659	865	3.08
0.6	1,897	1,013	1,083	4.83	1,445	712	952	3.29	1,258	634	898	2.96
0.7	1,798	967	1,091	4.66	1,383	683	973	3.15	1,186	605	931	2.81
0.8	1,697	929	1,096	4.52	1,296	650	999	2.97	1,124	578	964	2.68

PRODUCT SPECIFICATIONS

Dimensions



Model	Chassis Size
GPG**24***1A	Small
GPG**30***1A	Small
GPG**36***1A	Medium
GPG**42***1A	Medium
GPG**48***1A	Large
GPG**60***1A	Large

PRODUCT SPECIFICATIONS

Accessories

Part Number	Description
PGC101/102/103	Roof Curb
PGED101/102	Downflow Economizer
PGED103	Downflow Economizer
PGEH101/102	Horizontal Economizer
PGEH103	Horizontal Economizer
PGMDD101/102	Manual 25% Fresh Air Damper—Downflow Applications
PGMDD103	Manual 25% Fresh Air Damper—Downflow Applications
PGMDH101	Manual 25% Fresh Air Damper—Horizontal Applications
PGMDH102	Manual 25% Fresh Air Damper—Horizontal Applications
PGMDH103	Manual 25% Fresh Air Damper—Horizontal Applications
PGMDMD101/102	Motorized 25% Fresh Air Damper—Downflow Applications
PGMDMD103	Motorized 25% Fresh Air Damper—Downflow Applications
PGMDMH101	Motorized 25% Fresh Air Damper—Horizontal Applications
PGMDMH102	Motorized 25% Fresh Air Damper—Horizontal Applications
PGMDMH103	Motorized 25% Fresh Air Damper—Horizontal Applications
SQRP101/102	Square to Round Adapter (16" Round)—Downflow Applications
SQRP103	Square to Round Adapter (18" Round)—Downflow Applications
PGFR101/102	Internal Filter Rack

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LPT-00A	L.P. Conversion Kit
CHSATG	Thermostat: White, 1-Stage Heating/1-Stage Cooling, Nonprogrammable
CH70TG	Thermostat: White, 1-Stage Heating/1-Stage Cooling, Nonprogrammable, Digital

