PGF / PGC SERIES

HEATING & COOLING PRODUCTS

PGF = Standard Models
PGC = California Models with NOX baffles

10 SEER
Three Phase Models



CONVERTIBLE SINGLE PACKAGE GAS/ELECTRIC UNIT

3 THRU 5 TON, THREE PHASE
- Combination gas heating and electric cooling, self-contained for year-round comfort. Systems install on rooftop or at ground level. Units are shipped complete in one carton; with only the flue gas vent requiring mounting at time of installation.

CONSTRUCTION
- Triple-coated steel, consisting of a Polyester top coat, a urethane primer coat preceeded by an oxide pretreatment. One piece weather resistant top. Access panels for easy service. Side by side supply and return. Heavy gauge base with rails.

COIL PROTECTION
- The condenser coil has a sturdy wire inlet grille and UV rated vinyl mesh installed on the surface of the coil for additional protection.

ACCESS PANELS
- Located to provide easy serviceability. The gas and electrical controls are behind the same exterior panel.

CONVERTIBLE DISCHARGE
- Units have side-by-side supply and return air openings for either horizontal or downflow applications. Simply relocate duct cover panels.

COMPRESSOR
- The high efficiency compressor has external rubber mounts to help minimize system noise and features an automatic reset current / temperature sensing overload protection system. 3 to 4 ton uses reciprocating compressors, 5 ton uses a scroll.

COILS
- Both the condenser and evaporator coils have aluminum fins and copper tubes to promote efficient heat transfer. The refrigerant flow is controlled with capillary tubes. The refrigerant circuit is sealed, tested, and fully charged at the factory.

EXTERNALLY-MOUNTED GAUGE PORTS
- Provides easier servicing and allows for more accurate reading of operating conditions.

INDUCED DRAFT COMBUSTION
- An induced draft combustion blower is used to provide air for combustion. A safety switch is used to prove that air for combustion is being delivered to the main burners before ignition takes place.

HOT SURFACE PILOT (HSP) ELECTRONIC INTERMITTENT IGNITION DEVICE
- The hot surface pilot ignition (HSP) is more energy efficient and provides added safety of operation.

ELECTRONIC FAN CONTROL
- Adjustable electronic fan control with optional low speed contiuous fan feature responds quickly to circulate heated air and provide maximum comfort.

IN-SHOT BURNERS
- New design delivers more complete, efficient combustion.

HEAT EXCHANGER
- Aluminized serpentine clamshell heat exchanger provides corrosion resistance for longer life and efficient heat transfer.

EVAPORATOR BLOWER
- All model sizes are equipped with multiple speed direct drive blower motors to provide proper air flow for both heating and cooling requirements.

AIR FILTERS
- Air filters are supplied with these units.

TRANSFORMER
- 65VA
- Resettable circuit breaker.

ECONIMIZER
- Factory wired to accept economizer.

WARRANTY
- Standard one (1) year limited warranty on parts.
- Five (5) year limited warranty on the compressor.
- Ten (10) year limited warranty on the gas fired heat exchanger.

MANUFACTURER CERTIFIED TO ARI AS COMPLYING WITH UNITARY AIR-CONDITIONING EQUIPMENT CERTIFICATION SECTION OF ARI STANDARD 210

c UL US LISTED

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS • COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

509 11 1403 01

International Comfort Products
650 Heil-Quaker Avenue, Lewisburg, TN 37091

4/18/05

UNIT SPECIFICATIONS

MODEL NUMBER	Electrical Data			Condenser Data									BELS
				Coil			Fan Motor			Fan			
	Voltage Phase - Hz	HACR Breaker / Max. Fuse	Ampacity	Total Face Area (Sq. Ft.)	Fins Per In. / Rows	Tube Diameter (In.)	HP	Full Load Amps	RPM (Max)	Size Diameter (In.)	No. Blades Pitch °	CFM (Max.)	
PG*036H080(F)	208/230-3-60	20 amps	17.1	8.0	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	7.8
PG*036H100(F)	208/230-3-60	20 amps	17.1	8.0	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	7.8
PG*036L080(F)	460-3-60	15 amps	9.0	8.0	20 / 2	3/8	1/3	.74	1140	20.3	3 -27	3000	7.8
PG*036L100(F)	460-3-60	15 amps	9.0	8.0	20 / 2	3/8	1/3	.74	1140	20.3	3 -27	3000	7.8
PG*036S080(F)	575-3-60	15 amps	7.0	8.0	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	7.8
PG*036S100(F)	575-3-60	15 amps	7.0	8.0	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	7.8
PG*048H080(F)	208/230-3-60	30 amps	21.1	10.5	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	7.8
PG*048H120(F)	208/230-3-60	30 amps	21.1	10.5	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	7.8
PG*048L080(F)	460-3-60	15 amps	10.2	10.5	20 / 2	3/8	1/3	.75	1140	20.3	3 -27	3000	7.8
PG*048L120(F)	460-3-60	15 amps	10.2	10.5	20 / 2	3/8	1/3	.75	1140	20.3	3 -27	3000	7.8
PG*048S080(F)	575-3-60	15 amps	8.4	10.5	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	7.8
PG*048S120(F)	575-3-60	15 amps	8.4	10.5	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	7.8
PG*060H100(F)	208/230-3-60	45 amps	30.3	14.9	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	8.0
PGF060H140(E)	208/230-3-60	45 amps	30.3	14.9	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	8.0
PGC060H140(F)	208/230-3-60	45 amps	30.3	14.9	20 / 2	3/8	1/3	1.9	1140	20.3	3 -27	3000	8.0
PG*060L100(F)	460-3-60	20 amps	13.9	14.9	20 / 2	3/8	1/3	.75	1140	20.3	3 -27	3000	8.0
PGF060L140(E)	460-3-60	20 amps	13.9	14.9	20 / 2	3/8	1/3	.75	1140	20.3	3 -27	3000	8.0
PGC060L140(F)	460-3-60	20 amps	13.9	14.9	20 / 2	3/8	1/3	.75	1140	20.3	3 -27	3000	8.0
PG*060S100(F)	575-3-60	15 amps	11.9	14.9	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	8.0
PGF060S140(E)	575-3-60	15 amps	11.9	14.9	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	8.0
PGC060S140(F)	575-3-60	15 amps	11.9	14.9	20 / 2	3/8	1/3	.60	1140	20.3	3 -27	3000	8.0

* F = PGF Standard Models, C = PGC models with Nox baffles and meet California emission requirements.

MODEL NUMBER	Evaporator Coil									Compressor				
	Coil				Motor		Blower							
	Total Face Area (Sq. Ft.)	Fins Per In. / Rows	Tube Diam. (In.)	Blower H.P. / Type / Speeds	Full Load Amps	Locked Rotor Amps	Type & Size	RPM (Max)	CFM Rated	Type	Rated Load Amps	Locked Rotor Amps	Factory Refrigerant Charge R-22 (Oz.)	Ship Weight (Lbs.)
PG*036H080(F)	3.66	14 / 3	3/8	1/2 / PSC / 3	3.6	7.50	DD11-9A	1000	1250	Recip	9.7	72	89	410
PG*036H100(F)	3.66	14 / 3	3/8	1/2 / PSC / 3	3.6	7.50	DD11-9A	1000	1250	Recip	9.7	72	89	410
PG*036L080(F)	3.66	14 / 3	3/8	1/2 / PSC / 3	2.0	4.15	DD11-9A	1000	1250	Recip	5.0	33	89	410
PG*036L100(F)	3.66	14 / 3	3/8	1/2 / PSC / 4	2.0	4.15	DD11-9A	1000	1250	Recip	5.0	33	89	410
PG*036S080(F)	3.66	14 / 3	3/8	1/2 / PSC / 1	1.5	3.60	DD11-9A	1000	1250	Recip	3.9	27	89	410
PG*036S100(F)	3.66	14 / 3	3/8	1/2 / PSC / 1	1.5	3.60	DD11-9A	1000	1250	Recip	3.9	27	89	410
PG*048H080(F)+	5.33	14 / 3	3/8	1/2 / PSC / 3	3.6	7.50	DD11-9A	1000	1600	Recip	12.5	91	102	490
PG*048H120(F)+	5.33	14 / 3	3/8	1/2 / PSC / 4	3.6	7.50	DD11-9A	1000	1600	Recip	12.5	91	102	490
PG*048L080(F)+	5.33	14 / 3	3/8	1/2 / PSC / 3	2.0	4.50	DD11-9A	1000	1600	Recip	6.0	42	102	490
PG*048L120(F)+	5.33	14 / 3	3/8	1/2 / PSC / 3	2.0	4.50	DD11-9A	1000	1600	Recip	6.0	42	102	490
PG*048S080(F)	5.33	14 / 3	3/8	1/2 / PSC / 1	1.5	3.60	DD11-11A	1000	1600	Recip	5.0	39	102	490
PG*048S120(F)	5.33	14 / 3	3/8	1/2 / PSC / 1	1.5	3.60	DD11-11A	1000	1600	Recip	5.0	39	102	490
PG*060H100(F)	5.33	14 / 4	3/8	1 / PSC / 4	6.0	15.0	DD12-12A	1000	1900	Scroll	17.9	124	136	510
PGF060H140(E)	5.33	14 / 4	3/8	1 / PSC / 4	6.0	15.0	DD12-12A	1000	1900	Scroll	17.9	124	136	510
PGC060H140(F)	5.33	14 / 4	3/8	1 / PSC / 4	6.0	15.0	DD12-12A	1000	1900	Scroll	17.9	124	136	510
PG*060L100(F)	5.33	14 / 4	3/8	1 / PSC / 4	2.5	7.2	DD12-12A	1000	1900	Scroll	8.9	59.6	136	510
PGF060L140(E)	5.33	14 / 4	3/8	1 / PSC / 4	2.5	7.2	DD12-12A	1000	1900	Scroll	8.9	59.6	136	510
PGC060L140(F)	5.33	14 / 4	3/8	1 / PSC / 4	2.5	7.2	DD12-12A	1000	1900	Scroll	8.9	59.6	136	510
PG*060S100(F)	5.33	14 / 4	3/8	1 / PSC / 1	2.4	5.80	DD12-12A	1000	1900	Scroll	7.1	49.4	136	510
PGF060S140(E)	5.33	14 / 4	3/8	1 / PSC / 1	2.4	5.80	DD12-12A	1000	1900	Scroll	7.1	49.4	136	510
PGC060S140(F)	5.33	14 / 4	3/8	1 / PSC / 1	2.4	5.80	DD12-12A	1000	1900	Scroll	7.1	49.4	136	510

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+ PG*048*120 have DD11-11 blower.

Air Filters are supplied with these units, 3 to 5 ton use 14 x 25 x 1 (2)

PERFORMANCE DATA: HEATING

MODEL NUMBER	Input (MBTUH) Standard	Output (MBTUH) Standard	Efficiency ** DOE (AFUE) Std.	Efficiency ** Calif. (CSE) Std.	Temperature Rise ° F	Gas Piping Size (In.)	Transformer Size Va.
PG*036(H,L,S)080(F)	80	64	80.0	76.0	35-65	1/2	65
PG*036(H,L,S)100(F)	100	80	80.0	76.0	35-65	1/2	65
PG*048(H,L,S)080(F)	80	64	80.0	76.0	35-65	1/2	65
PG*048(H,L,S)120(F)	120	96	80.0	76.0	40-70	1/2	65
PG*060(H,L,S)100(F)	100	80	80.0	76.0	30-60	1/2	65
PGF060(H,L,S)140(E)	140	112	80.0	76.0	35-65	1/2	65
PGC060(H,L,S)140(F)	140	112	80.0	76.0	35-65	1/2	65

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** 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
PG*036(H,L,S)080(F)	33,400	.75	10.0	8.5	4000	1100	.15
PG*036(H,L,S)100(F)							
PG*048(H,L,S)080(F)	45,500	.79	10.0	9.0	5115	1600	.15
PG*048(H,L,S)120(F)							
PG*060(H,L,S)100(F)	58,000	.75	10.0	8.8	6480	1900	.15
PGF060(H,L,S)140(E)							
PGC060(H,L,S)140(F)							

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[1] Rated Capacity @ ARI standard conditions, 95° Amb, 80° DB/67° WB, 230 Volts. For applications at 208 volts deduct 1000 BTU.

[2] Includes a .08 drop for a filter

[3] For reference only

BLOWER PERFORMANCE DATA

MODEL * NUMBER	MOTOR SPEED	Air Delivery in CFM at ESP** 0.20	0.30	0.40	0.50
PG*036H PG*048H	HI	1649	1621	1595	1562
	MD	1284	1281	1255	1239
	LO	1091	1073	1072	1059
PG*036L PG*048L	HI	1949	1881	1818	1741
	MD HI	1637	1589	1540	1487
	MD	1383	1353	1319	1280
	LO	1289	1267	1236	1208
PG*036S	HI	1733	1695	1655	1587
PG*048S	HI	1840	1781	1722	1659
PG*060(H,L)	HI	1983	1910	1837	1750
	MD HI	1915	1852	1783	1710
	MD	1805	1748	1693	1634
	LO	1700	1666	1578	1531
PG*060(S)	HI	2108	2039	1856	1759

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**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.

EXPANDED PERFORMANCE DATA (COOLING) - 3 TON (NET DATA)

IDB*	Airflow CFM		Outdoor Ambient Temperature - Degrees F. Dry Bulb / Entering Indoor Temperature - Degrees F. Wet Bulb																							
			65				75				85				95				105				115			
			59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1400	MBh	32.6	33.3	34	-	31.3	32.8	33.9	-	30	32.4	33.9	-	28	30.8	33.3	-	25.9	28.6	31.5	-	23.7	26.2	29.1	-
		S/T	0.74	0.58	0.44	-	0.76	0.58	0.44	-	0.78	0.59	0.43	-	0.81	0.6	0.43	-	0.83	0.61	0.42	-	0.87	0.63	0.42	-
		KW	3.24	3.21	3.18	-	3.5	3.51	3.5	-	3.77	3.8	3.82	-	3.91	4.06	4.1	-	4.05	4.21	4.39	-	4.15	4.36	4.54	-
	1250	MBh	32.8	33.6	34.1	-	31.3	33	34.1	-	29.9	32.4	34.2	-	27.9	30.8	33.4	-	25.9	28.6	31.5	-	23.7	26.3	29.1	-
		S/T	0.73	0.58	0.45	-	0.75	0.58	0.44	-	0.77	0.59	0.44	-	0.79	0.59	0.43	-	0.81	0.61	0.43	-	0.84	0.63	0.43	-
		KW	3.11	3.08	3.08	-	3.34	3.36	3.36	-	3.58	3.63	3.65	-	3.72	3.86	3.94	-	3.87	4.01	4.18	-	3.99	4.16	4.34	-
	1100	MBh	32.7	33.4	34.3	-	31.2	32.8	34.3	-	29.7	32.3	34.2	-	27.7	30.5	33.3	-	25.7	28.4	31.3	-	23.6	26.2	29	-
		S/T	0.72	0.55	0.44	-	0.74	0.57	0.44	-	0.75	0.58	0.44	-	0.77	0.59	0.44	-	0.79	0.6	0.43	-	0.82	0.61	0.44	-
		KW	3.01	2.99	2.96	-	3.21	3.24	3.24	-	3.41	3.5	3.52	-	3.55	3.69	3.8	-	3.7	3.84	4	-	3.83	3.99	4.16	-
75	1400	MBh	32.6	33.6	34.1	35.3	31.5	33	34.1	35.4	30.3	32.4	34.2	35.4	28.5	30.7	33.3	34.9	26.5	28	31.4	34	24.8	26.2	29	32
		S/T	0.89	0.71	0.55	0.44	0.92	0.73	0.56	0.43	0.95	0.75	0.57	0.43	0.98	0.78	0.58	0.42	1.02	0.81	0.6	0.42	1.02	0.83	0.61	0.42
		KW	3.25	3.23	3.22	2.95	3.45	3.52	3.52	3.38	3.66	3.8	3.81	3.81	3.77	4.06	4.11	4.14	3.86	4.16	4.39	4.43	3.93	4.34	4.54	4.74
	1250	MBh	32.8	33.8	34.4	35	31.4	33.1	34.4	35.4	30.1	32.4	34.3	35.7	28.2	30.7	33.3	35.3	26.3	28.5	31.4	34.1	24.3	26.2	29	32
		S/T	0.87	0.7	0.55	0.44	0.9	0.72	0.56	0.43	0.93	0.74	0.57	0.43	0.96	0.76	0.58	0.43	0.98	0.78	0.59	0.43	1.02	0.81	0.6	0.43
		KW	3.13	3.09	3.09	3.09	3.32	3.37	3.38	3.38	3.51	3.64	3.66	3.67	3.64	3.86	3.95	3.96	3.74	4.02	4.18	4.26	3.84	4.17	4.34	4.54
	1100	MBh	32.7	34	34.7	35.1	31.2	33.1	34.5	35.5	29.7	32.3	34.3	35.8	27.8	30.4	33.2	35.3	26	28.3	31.2	34	24	26.1	28.9	31.9
		S/T	0.86	0.69	0.55	0.44	0.88	0.71	0.56	0.44	0.9	0.72	0.56	0.43	0.93	0.74	0.57	0.43	0.96	0.76	0.58	0.43	0.99	0.79	0.59	0.43
		KW	3.02	2.97	2.98	2.98	3.2	3.23	3.25	3.26	3.38	3.5	3.52	3.54	3.5	3.69	3.8	3.83	3.63	3.84	4	4.12	3.74	3.99	4.16	4.35
80	1400	MBh	33.1	33.6	34.4	35	32.5	33	34.3	35.3	31.8	32.5	34.3	35.7	30.4	31	33.2	35	28.7	29	31.2	34	26.9	26.9	28.9	31.8
		S/T	1.02	0.81	0.67	0.54	1.02	0.86	0.69	0.54	1.02	0.91	0.71	0.55	1.02	0.94	0.74	0.55	1.02	0.97	0.77	0.58	1.02	1	0.8	0.59
		KW	3.04	3.29	3.24	3.21	3.27	3.53	3.53	3.53	3.51	3.76	3.82	3.85	3.7	3.96	4.12	4.15	3.88	4.07	4.39	4.44	4.06	4.18	4.53	4.74
	1250	MBh	32.9	34.1	34.8	35.4	32.1	33.3	34.6	35.6	31.2	32.5	34.4	35.9	35.9	30.8	33.4	35.4	28.1	28.7	31.2	34.1	26.3	26.6	28.9	31.9
		S/T	1.02	0.82	0.66	0.54	1.02	0.85	0.68	0.54	1.02	0.89	0.7	0.55	0.55	0.91	0.75	0.56	1.02	0.94	0.75	0.57	1.02	0.98	0.77	0.58
		KW	3.01	3.13	3.1	3.1	3.2	3.37	3.39	3.39	3.38	3.62	3.67	3.68	3.68	3.8	3.95	3.97	3.72	3.93	4.18	4.27	3.9	4.05	4.34	4.54
	1100	MBh	33	34.2	34.5	35.6	31.6	33.2	34.4	35.8	30.3	32.2	34.4	36	36	30.4	33.1	35.4	27.3	28.4	31.1	33.9	25.6	26.3	28.2	31.8
		S/T	0.97	0.81	0.63	0.53	1	0.83	0.66	0.54	1.02	0.86	0.69	0.54	0.54	0.89	0.71	0.55	1.02	0.92	0.73	0.56	1.02	0.95	0.76	0.57
		KW	2.95	2.99	2.99	2.99	3.12	3.24	3.26	3.27	3.28	3.49	3.53	3.55	3.55	3.66	3.8	3.83	3.58	3.79	4	4.12	3.74	3.93	4.1	4.35
85	1400	MBh	32.9	33.9	34.8	35.3	33.8	33.6	34.6	35.6	34.6	33.4	34.4	35.9	32.4	32.4	33.4	35.3	30.7	30.8	31.5	33.9	29	29	29.4	31.6
		S/T	1.22	1.02	0.79	0.64	1.02	1.02	0.82	0.66	0.82	1.02	0.85	0.68	1.02	1.02	0.89	0.7	1.02	1.02	0.93	0.73	1.02	1.02	0.96	0.76
		KW	3.05	3.21	3.27	3.26	3.3	3.41	3.55	3.56	3.55	3.6	3.84	3.85	3.8	3.81	4.07	4.15	4	4	4.29	4.44	4.19	4.19	4.4	4.75
	1250	MBh	34	34.4	35.1	35.5	33.5	33.7	34.8	35.8	32.9	32.9	34.5	36.1	36.1	31.7	33.3	35.5	30	30.1	31.3	34	28.3	28.3	29.1	31.7
		S/T	1.02	0.92	0.77	0.63	1.02	0.97	0.8	0.65	1.02	1.02	0.83	0.67	0.67	1.02	0.86	0.69	1.02	1.02	0.9	0.71	1.02	1.02	0.94	0.74
		KW	2.93	3.09	3.12	3.13	3.18	3.3	3.4	3.41	3.43	3.51	3.68	3.7	3.7	3.69	3.93	3.99	3.83	3.84	4.13	4.27	4.02	4.03	4.25	4.54
	1100	MBh	33.7	34.3	35.4	35.9	32.9	33.4	34.9	36	32.2	32.6	34.4	36.2	30.8	30.8	33.1	35.3	29.2	29.2	31.1	33.9	33.9	27.6	28.8	31.7
		S/T	1.02	0.91	0.76	0.63	1.02	0.95	0.79	0.64	1.02	0.98	0.81	0.65	1.02	1.02	0.84	0.66	1.02	1.02	0.87	0.69	0.69	1.02	0.91	0.71
		KW	2.83	2.97	3	3.01	3.07	3.19	3.27	3.29	3.31	3.42	3.53	3.56	3.5	3.58	3.8	3.86	3.68	3.7	3.97	4.12	4.13	3.87	4.11	4.36

EXPANDED PERFORMANCE DATA (COOLING) - 4 TON (GROSS DATA)

IDB*	Airflow CFM		Outdoor Ambient Temperature - Degrees F. Dry Bulb / Entering Indoor Temperature - Degrees F. Wet Bulb																							
			65				75				85				95				105				115			
			59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1792	MBh	47.4	49.2	53.9	-	46.3	48.0	52.6	-	45.2	46.9	51.4	-	44.1	45.7	50.1	-	41.9	43.4	47.6	-	38.8	40.2	44.1	-
		S/T	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.84	0.70	0.49	-	0.87	0.73	0.50	-	0.90	0.75	0.52	-	0.91	0.76	0.53	-
		KW	3.98	4.05	4.17	-	4.25	4.34	4.47	-	4.50	4.59	4.73	-	4.72	4.81	4.96	-	4.90	5.00	5.16	-	5.06	5.17	5.33	-
	1600	MBh	46.0	47.7	52.3	-	45.0	46.6	51.1	-	43.9	45.5	49.9	-	42.8	44.4	48.6	-	40.7	42.2	46.2	-	37.7	39.1	42.8	-
		S/T	0.76	0.63	0.44	-	0.78	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
		KW	3.95	4.02	4.14	-	4.22	4.31	4.43	-	4.47	4.56	4.69	-	4.68	4.78	4.92	-	4.86	4.96	5.12	-	5.02	5.13	5.29	-
	1408	MBh	43.7	45.3	49.7	-	42.7	44.3	48.5	-	41.7	43.2	47.4	-	40.7	42.2	46.2	-	38.7	40.1	43.9	-	35.8	37.1	40.7	-
		S/T	0.72	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
		KW	3.89	3.96	4.08	-	4.16	4.24	4.37	-	4.40	4.49	4.62	-	4.61	4.70	4.85	-	4.79	4.89	5.04	-	4.94	5.05	5.20	-
75	1792	MBh	48.2	49.7	53.8	57.7	47.1	48.5	52.5	56.3	46.0	47.3	51.3	55.0	44.9	46.2	50.0	53.7	42.6	43.9	47.5	51.0	39.5	40.7	44.0	47.2
		S/T	0.90	0.81	0.61	0.39	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	0.99	0.88	0.67	0.43	1.00	0.92	0.70	0.45	1.00	0.93	0.70	0.45
		KW	4.00	4.08	4.20	4.32	4.29	4.37	4.50	4.64	4.53	4.63	4.77	4.91	4.75	4.85	5.00	5.16	4.94	5.04	5.20	5.36	5.10	5.21	5.37	5.54
	1600	MBh	46.8	48.2	52.2	56.0	45.7	47.1	51.0	54.7	44.6	46.0	49.8	53.4	43.6	44.8	48.5	52.1	41.4	42.6	46.1	49.5	38.3	39.5	42.7	45.8
		S/T	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43
		KW	3.98	4.05	4.17	4.29	4.25	4.34	4.47	4.60	4.50	4.59	4.73	4.87	4.72	4.81	4.96	5.12	4.90	5.00	5.16	5.32	5.06	5.17	5.33	5.50
	1408	MBh	44.5	45.8	49.6	53.2	43.5	44.7	48.4	52.0	42.4	43.7	47.3	50.7	41.4	42.6	46.1	49.5	39.3	40.5	43.8	47.0	36.4	37.5	40.6	43.6
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		KW	3.92	3.99	4.11	4.23	4.19	4.27	4.40	4.53	4.43	4.52	4.66	4.80	4.65	4.74	4.88	5.04	4.83	4.93	5.08	5.24	4.98	5.09	5.24	5.41
80	1792	MBh	49.1	50.2	53.6	57.3	47.9	49.0	52.3	56.0	46.8	47.8	51.1	54.6	45.7	46.7	49.9	53.3	43.4	44.3	47.4	50.6	40.2	41.1	43.9	46.9
		S/T	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.86	0.64	1.00	1.00	0.87	0.65
		KW	4.03	4.11	4.23	4.36	4.32	4.40	4.53	4.67	4.57	4.66	4.80	4.95	4.79	4.89	5.04	5.20	4.98	5.08	5.24	5.41	5.14	5.25	5.41	5.59
	1600	MBh	47.7	48.7	52.0	55.6	46.6	47.6	50.8	54.3	45.4	46.4	49.6	53.0	44.3	45.3	48.4	51.7	42.1	43.0	46.0	49.2	39.0	39.9	42.6	45.5
		S/T	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		KW	4.01	4.08	4.20	4.32	4.29	4.37	4.50	4.64	4.54	4.63	4.77	4.91	4.75	4.85	5.00	5.16	4.94	5.04	5.20	5.36	5.10	5.21	5.37	5.54
	1408	MBh	45.3	46.3	49.4	52.8	44.2	45.2	48.3	51.6	43.2	44.1	47.1	50.4	42.1	43.0	46.0	49.2	40.0	40.9	43.7	46.7	37.1	37.9	40.5	43.3
		S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.03	0.96	0.79	0.59	1.04	0.97	0.79	0.59
		KW	3.95	4.02	4.14	4.26	4.22	4.31	4.43	4.57	4.47	4.56	4.69	4.84	4.68	4.78	4.92	5.07	4.86	4.96	5.12	5.28	5.02	5.13	5.29	5.45
85	1792	MBh	49.9	50.9	53.3	56.9	48.8	49.7	52.1	55.6	47.6	48.5	50.8	54.2	46.5	47.4	49.6	52.9	44.1	45.0	47.1	50.3	40.9	41.7	43.7	46.6
		S/T	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.83	1.00	1.00	1.00	0.84
		KW	4.06	4.14	4.26	4.39	4.35	4.44	4.57	4.71	4.60	4.70	4.84	4.99	4.83	4.93	5.08	5.24	5.02	5.12	5.28	5.45	5.18	5.29	5.46	5.63
	1600	MBh	48.5	49.4	51.8	55.2	47.4	48.3	50.6	53.9	46.2	47.1	49.4	52.7	45.1	46.0	48.2	51.4	42.9	43.7	45.8	48.8	39.7	40.5	42.4	45.2
		S/T	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		KW	4.03	4.11	4.23	4.36	4.32	4.40	4.53	4.67	4.57	4.66	4.80	4.95	4.79	4.89	5.04	5.20	4.98	5.08	5.24	5.41	5.14	5.25	5.41	5.59
	1408	MBh	46.1	47.0	49.2	52.5	45.0	45.9	48.0	51.2	43.9	44.8	46.9	50.0	42.9	43.7	45.8	48.8	40.7	41.5	43.5	46.4	37.7	38.4	40.3	43.0
		S/T	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		KW	3.98	4.05	4.17	4.29	4.25	4.34	4.47	4.60	4.50	4.59	4.73	4.87	4.72	4.81	4.96	5.11	4.90	5.00	5.16	5.32	5.06	5.17	5.33	5.50

* Entering Indoor Temperature - Degrees F. Dry Bulb Standard Rating

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

EXPANDED PERFORMANCE DATA (COOLING) - 5 TON (GROSS DATA)

IDB*	Airflow CFM		Outdoor Ambient Temperature - Degrees F. Dry Bulb																							
			65				75				85				95				105				115			
			Entering Indoor Temperature - Degrees F. Wet Bulb																							
			59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	2128	MBh	60.5	62.7	68.7	-	59.1	61.2	67.1	-	57.6	59.8	65.5	-	56.2	58.3	63.9	-	53.4	55.4	60.7	-	49.5	51.3	56.2	-
		S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-
		KW	5.23	5.34	5.49	-	5.61	5.72	5.89	-	5.93	6.05	6.24	-	6.22	6.35	6.55	-	6.47	6.60	6.81	-	6.68	6.82	7.04	-
	1900	MBh	58.7	60.8	66.7	-	57.3	59.4	65.1	-	56.0	58.0	63.6	-	54.6	56.6	62.0	-	51.9	53.8	58.9	-	48.1	49.8	54.6	-
		S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-
		KW	5.20	5.30	5.45	-	5.56	5.67	5.84	-	5.89	6.01	6.19	-	6.17	6.30	6.50	-	6.42	6.55	6.76	-	6.63	6.77	6.98	-
	1672	MBh	55.8	57.8	63.3	-	54.5	56.5	61.9	-	53.2	55.1	60.4	-	51.9	53.8	58.9	-	49.3	51.1	56.0	-	45.6	47.3	51.8	-
		S/T	0.69	0.57	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-
		KW	5.12	5.22	5.37	-	5.48	5.59	5.75	-	5.80	5.92	6.09	-	6.08	6.20	6.39	-	6.32	6.45	6.65	-	6.52	6.66	6.87	-
75	2128	MBh	61.5	63.3	68.5	73.5	60.1	61.8	66.9	71.8	58.6	60.4	65.3	70.1	57.2	58.9	63.7	68.4	54.3	55.9	60.6	65.0	50.3	51.8	56.1	60.2
		S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	0.43
		KW	5.27	5.38	5.53	5.70	5.65	5.76	5.93	6.12	5.98	6.10	6.29	6.48	6.27	6.40	6.60	6.81	6.52	6.66	6.86	7.08	6.73	6.88	7.09	7.32
	1900	MBh	59.7	61.5	66.5	71.4	58.3	60.0	65.0	69.7	56.9	58.6	63.4	68.1	55.5	57.2	61.9	66.4	52.8	54.3	58.8	63.1	48.9	50.3	54.5	58.4
		S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41
		KW	5.23	5.34	5.49	5.66	5.61	5.72	5.89	6.07	5.93	6.06	6.24	6.43	6.22	6.35	6.55	6.75	6.47	6.60	6.81	7.03	6.68	6.82	7.04	7.26
	1672	MBh	56.7	58.4	63.2	67.8	55.4	57.0	61.7	66.3	54.1	55.7	60.3	64.7	52.8	54.3	58.8	63.1	50.1	51.6	55.9	59.9	46.4	47.8	51.7	55.5
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.80	0.61	0.39
		KW	5.16	5.26	5.41	5.57	5.52	5.63	5.80	5.98	5.84	5.96	6.14	6.33	6.13	6.25	6.45	6.65	6.37	6.50	6.70	6.91	6.58	6.71	6.92	7.15
80	2128	MBh	62.6	63.9	68.3	73.0	61.1	62.5	66.7	71.3	59.7	61.0	65.1	69.6	58.2	59.5	63.6	67.9	55.3	56.5	60.4	64.5	51.2	52.3	55.9	59.8
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62
		KW	5.31	5.42	5.58	5.74	5.69	5.81	5.98	6.16	6.03	6.15	6.34	6.53	6.32	6.45	6.65	6.86	6.57	6.71	6.92	7.14	6.79	6.93	7.15	7.38
	1900	MBh	60.8	62.1	66.3	70.9	59.3	60.6	64.8	69.3	57.9	59.2	63.2	67.6	56.5	57.8	61.7	66.0	53.7	54.9	58.6	62.7	49.7	50.8	54.3	58.0
		S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59
		KW	5.27	5.38	5.53	5.70	5.65	5.76	5.93	6.12	5.98	6.10	6.29	6.48	6.27	6.40	6.60	6.81	6.52	6.66	6.87	7.08	6.74	6.88	7.09	7.32
	1672	MBh	57.7	59.0	63.0	67.4	56.4	57.6	61.5	65.8	55.0	56.2	60.1	64.2	53.7	54.9	58.6	62.7	51.0	52.1	55.7	59.5	47.2	48.3	51.6	55.1
		S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.92	0.75	0.56
		KW	5.20	5.30	5.45	5.61	5.56	5.67	5.84	6.02	5.89	6.01	6.19	6.38	6.17	6.30	6.50	6.70	6.42	6.55	6.76	6.97	6.63	6.77	6.98	7.20
85	2128	MBh	63.7	64.9	68.0	72.5	62.2	63.4	66.4	70.8	60.7	61.9	64.8	69.1	59.2	60.4	63.2	67.5	56.3	57.4	60.1	64.1	52.1	53.1	55.6	59.4
		S/T	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.98	0.79	1.00	1.00	0.98	0.80
		KW	5.35	5.46	5.62	5.79	5.73	5.85	6.03	6.21	6.07	6.20	6.39	6.59	6.37	6.50	6.70	6.92	6.62	6.76	6.98	7.20	6.84	6.99	7.21	7.44
	1900	MBh	61.8	63.0	66.0	70.4	60.4	61.5	64.5	68.8	58.9	60.1	62.9	67.1	57.5	58.6	61.4	65.5	54.6	55.7	58.3	62.2	50.6	51.6	54.0	57.6
		S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76
		KW	5.31	5.42	5.58	5.74	5.69	5.81	5.98	6.16	6.03	6.15	6.34	6.53	6.32	6.45	6.65	6.86	6.57	6.71	6.92	7.14	6.79	6.93	7.15	7.38
	1672	MBh	58.7	59.9	62.7	66.9	57.4	58.5	61.2	65.3	56.0	57.1	59.8	63.8	54.6	55.7	58.3	62.2	51.9	52.9	55.4	59.1	48.1	49.0	51.3	54.8
		S/T	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73
		KW	5.23	5.34	5.49	5.66	5.61	5.72	5.89	6.07	5.93	6.05	6.24	6.43	6.22	6.35	6.55	6.75	6.47	6.60	6.81	7.03	6.68	6.82	7.04	7.26

* Entering Indoor Temperature - Degrees F. Dry Bulb

Standard Rating

ACCESSORIES

ROOF CURBS, TRANSITION AND DUCT KITS

Used on (Unit Size)	8" Curb	14" Curb	24" Curb	Square to Round Transition Kit	Round Duct Size (Inches)	Concentric Grill Flush Mount	Concentric Grill Step Down
3 Ton	ACL01FB0A *	ACM01FB0A *	ACH01FB0A *	ACT01FB0A	16	AXB020CFA	AXB020CSA
	AXB020CLA **	AXB020CMA **	AXB020CHA **	AXB020CTA	16	AXB020CFA	AXB020CSA
4 - 5 Ton	ACL02FB0A *	ACM02FB0A *	ACH02FB0A *	ACT02FB0A	18	AXB030CFA	AXB030CSA
	AXB020CLA **	AXB020CMA **	AXB020CHA **	ACT22FB0A	18	AXB030CFA	AXB030CSA

ROOF CURB DIMENSIONS (AC SERIES)

Model No.	A	B	C	D	E	F	G	H	K (ACL)	K (ACM)	K (ACH)
AC(L,M,H)01FB0A	42-1/2	39-1/2	16	21-1/2	2	45-3/4	42-3/4	20	8	14	24
AC(L,M,H)02FB0A	44-3/4	41-3/4	18-7/8	20-7/8	2	45-3/4	42-3/4	22	8	14	24

ROOF CURB DIMENSIONS (AX SERIES)

Model No.	A	B	C	D	E	F	G	H	K (CLA)	K (CMA)	K (CHA)
AXB020C(L,M,H)A**	42-3/4	39-3/4	18	18	3-3/4	42-3/4	39-3/4	18	8	14	24

* Full Perimeter Curbs

** AXB curbs are not full perimenter curbs. Three ton units have a 3 inch overhang on the control access panel end of the unit . The 4 & 5 ton units have a 3 to 4 inch overhang on the back and sides. There will be some supply air blockage, but this does not affect the performance of the unit.

ECONOMIZERS

Description	Mainline Model Number	Used on
Fully Modulating Horizontal	AHE01FB0A	3 Ton
Fully Modulating Horizontal	AHE02FB0A	4 to 5 Ton
Fully Modulating Downflow	AEM01FB0A	3 Ton
3 Position Horizontal	AHP01FB0A	3Ton
3 Position Horizontal	AHP02FB0A	4 to 5 Ton
3 Position Downflow	AEP01FB0A	3 Ton

FRESH AIR DAMPERS

Description	Mainline Model Number	Used on
35% Manual Fresh Air Damper	AFA01FB0A	3 Ton
35% Manual Fresh Air Damper	AFA02FB0A	4 to 5 Ton
35% Motorized Fresh Air Damper	AFM01FB0A	3 Ton
35% Motorized Fresh Air Damper	AFM02FB0A	4 to 5 Ton

RETURN AIR FILTER KIT

Description	Mainline Model Number	Used on
Return Air Filter Kit	AKF12FBOA	ALL

Filters not included in kit, small chassis uses 12 x 25 x 1 (2 ea), large chassis uses 14 x 25 x 1 (2 ea)

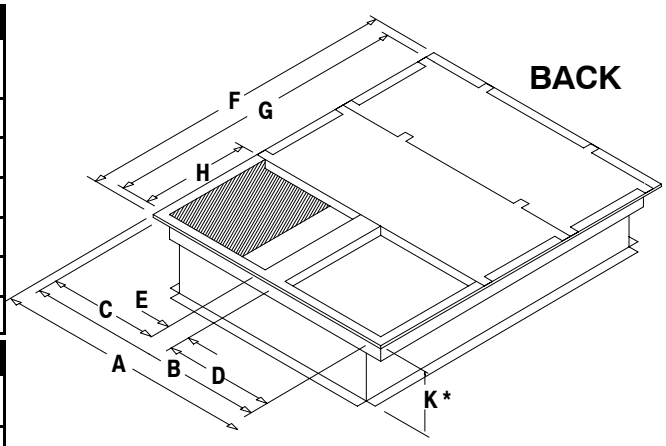
HAIL GUARD

Description	Mainline Model Number	Used on
Hail Guard	AGH01FB0A	3 Ton
	AGH02FB0A	4 to 5 Ton

FOSSIL FUEL CONVERSION (0' to 2000')

Description	Service Parts Number *	Used on Heat Input
Natural to LP Gas	1172663	80 MBTUH
Natural to LP Gas	1172662	100, 120, 140 MBTUH
LP to Natural Gas	1172664	80 MBTUH
LP to Natural Gas	1098575	100, 120, 140 MBTUH

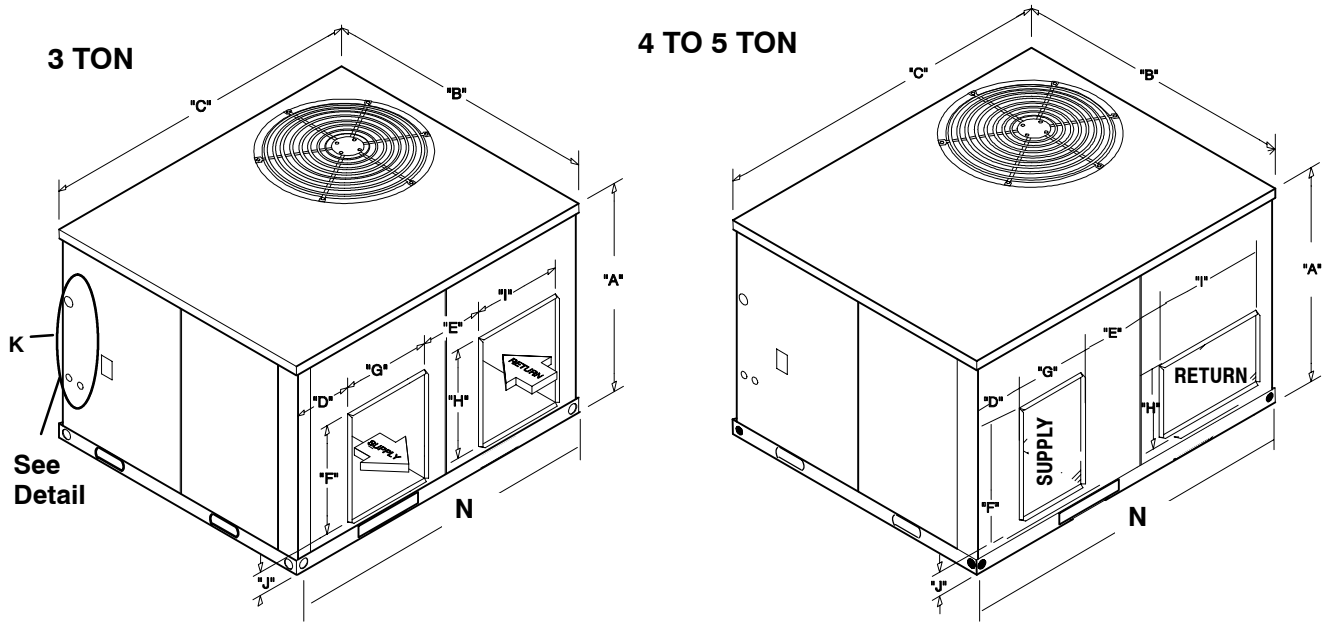
* Available through Service Parts **only.** For High Altitude conversions, see installation instructions.

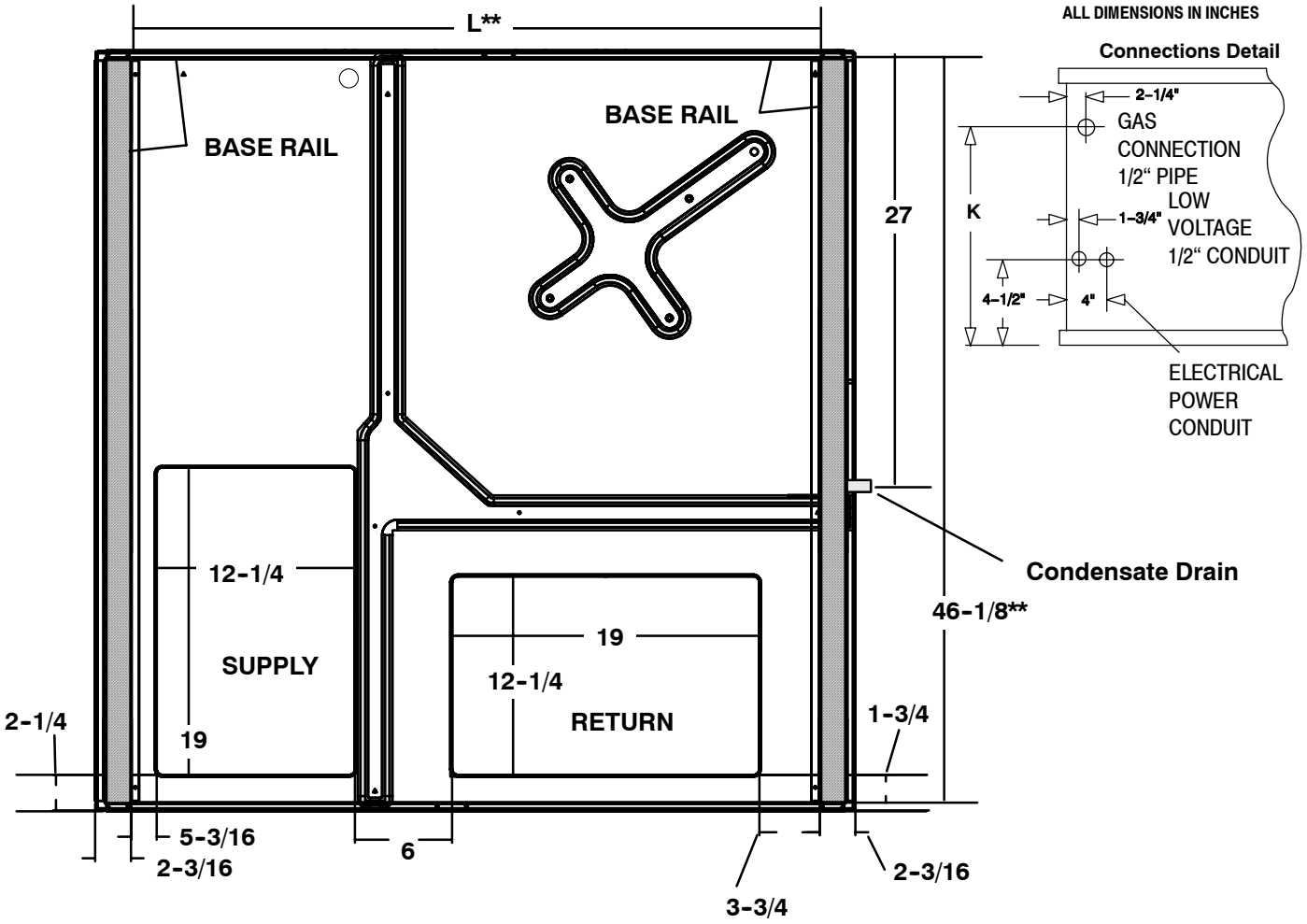


Curb Dimensions

Roof Curbs available in 8", 14" and 24" Heights (K Dimensions)

UNIT DIMENSIONS





UNIT SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N
3 Ton	29-1/2	47-1/2	47-1/2	3	9-1/2	12	14	12	14	4-1/2	16	42-3/4	1-9/16	46-1/2
4 TO 5 Ton	37-1/2	47-1/2	51-1/2	7-1/2	6-1/2	19	12	12	19	4-1/2	22	46-1/4	5-3/16	49-3/4
** Measured from inside to inside on base rails.														

MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER	P	G	F	036	H	100	F	Engineering Cole

P = Single Package

GAS ELECTRIC

F = Standard Series

C = Models with Nox baffles and meet California emission requirements.

GAS HEAT INPUT

100 = 100,000 120 = 120,000

080 = 80,000 140 = 140,000

ELECTRICAL CHARACTERISTICS

H = 208 / 230-3-60
L = 460-3-60
S = 575-3-60

COOLING CAPACITY (NOMINAL BTUH)

36 = 3 ton

48 = 4 Ton 60 = 5 Ton

GUIDE SPECIFICATION

CABINET

The cabinet is made of triple-coated steel, consisting of a Polyester top coat, a urethane primer coat preceeded by an oxide pretreatment. One piece weather resistant top. The base rails are 16 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 1/2" 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 (5 ton has scroll compressor) with internal overload protection, and copper tube / aluminum fin evaporator and condenser coils. The unit is designed for cooling operation to 40º 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.

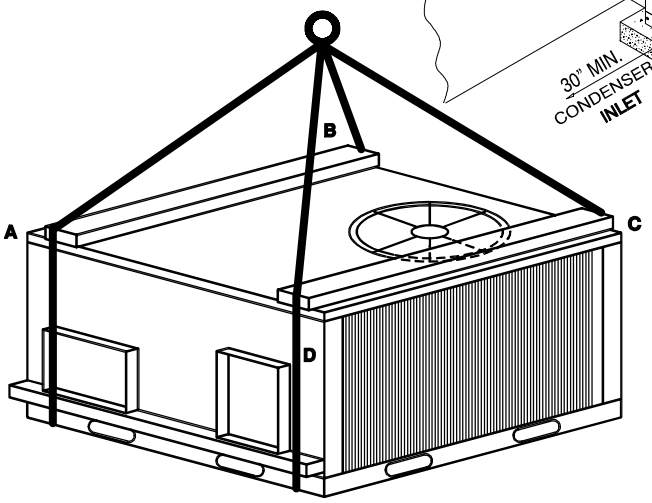
EVAPORATOR BLOWER

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.

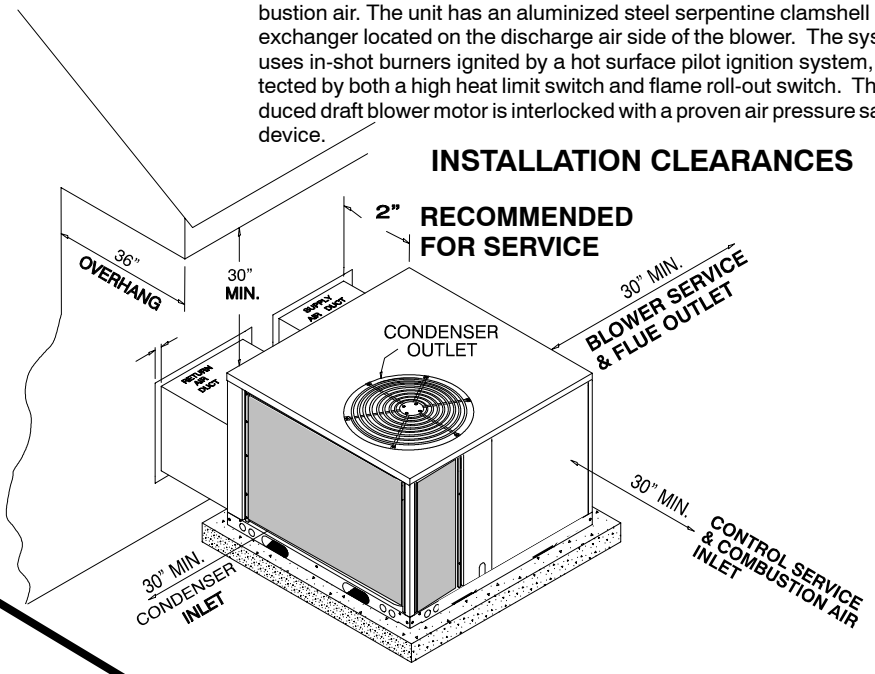
HEATING SECTION

The gas-fired heating section features an induced draft blower for combustion air. The unit has an aluminized steel serpentine clamshell 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.

RIGGING DETAILS



INSTALLATION CLEARANCES



CORNER WEIGHTS (LBS)

UNIT SIZE	A	B	C	D	OPERATING WEIGHT TOTAL
3 TON	82	103	143	82	410
4 TON	98	123	171	98	490
5 TON	100	125	175	100	500

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE