LGE

L SERIES® ROOFTOP UNITS (R-410A) 60HZ

SUBMITTAL DATA

June 2006
Supersedes November 2004

SPECIFICATIONS

General Data		Nominal Tonnage	3 Ton	5 Ton
		Model No.	LGE036H4	LGE060H4
		Efficiency Type	High	High
Cooling Performance		Gross Cooling Capacity - Btuh (kW)	37,300 (10.9)	62,700 (18.4)
		[1] Net Cooling Capacity - Btuh (kW)	36,000 (10.5)	60,000 (17.6)
		ARI Rated Air Flow - cfm (L/s)	1200 (565)	2000 (945)
		Total Unit Power (kW)	3.0	5.3
		[1] SEER (Btuh/Watt)	13.2	13.0
		[1] EER (Btuh/Watt)	12.0	11.3
		[2] Integrated Part Load Value (Btuh/Watt)	N/A	N/A
		Refrigerant Charge Furnished (R-410A) Circuit 1	11 lbs. 0 oz. (5.0 kg)	11 lbs. 13 oz. (5.4 kg)
[3] Sound Rating Number (dB)			82	82
Gas Heating Performance		Heat Input Type	High 1 Stage	High 2 Stage
	Gas Input Btuh (kW) Nat.	First Stage	- - -	81,000 (23.7)
		Second Stage	75,000 (22.0)	125,000 (36.6)
		Second Stage Output	60,000 (17.6)	100,000 (29.3)
	Gas Input Btuh (kW) LPG	First Stage	- - -	90,000 (26.4)
		Second Stage	75,000 (22.0)	125,000 (36.6)
		Second Stage Output	60,000 (17.6)	100,000 (29.3)
		Recommended Gas Supply Pressure - Natural	7.0	7.0
		LPG/Propane	11.0	11.0
		CSA Thermal Efficiency	80	80
		Gas Supply Connections	3/4	3/4
Compressor Type (No.)			Scroll (1)	Scroll (1)
Condenser Coil		Net face area - sq. ft. (m^2)	18.0 (1.67)	18.0 (1.67)
		Tube diameter - in. (mm)	3/8 (9.5)	3/8 (9.5)
		Number of rows	2	2
		Fins per inch (m)	20 (787)	20 (787)
Condenser Fan(s)		Motor horsepower (W)	(1) 1/3 (249)	(1) 1/3 (249)
		Motor rpm	1075	1075
		Total Motor watts	350	350
		Diameter - in. (mm)	(1) 24 (610)	(1) 24 (610)
		Number of blades	3	3
		Total air volume - cfm (L/s)	4000 (1890)	4000 (1890)
Evaporator Coil		Net face area - sq. ft. (m^2)	6.0 (0.56)	6.0 (0.56)
		Tube diameter - in. (mm)	3/8 (9.5)	3/8 (9.5)
		Number of rows	3	4
		Fins per inch (m)	14 (551)	14 (551)
		Drain connection - no. & size	(1) 1 (25)	(1) 1 (25)
		Expansion device type	Thermostatic Expansion Valve	
[4] Indoor Blower and Drive Selection		Nominal motor output	1.5 (1.1)	1.5 (1.1)
		Maximum usable motor output	1.7 (1.3)	1.7 (1.3)
		RPM Range	575 - 865	860 - 1150
		Wheel nominal diameter x width in. (mm)	(1) 10 x 10 (254 x 254)	(1) 10 x 10 (254 x 254)
Filters		Type of filter	Farr 30-30 or equivalent	
		Number and size - in. (mm)	(2) 16 x 25 x 2 (406 x 635 x 51)	(2) 16 x 25 x 2 (406 x 635 x 51)
Shipping Data lbs. (kg)		Net wt. - Basic unit with accessories	861 (390)	923 (419)
		Shipping weight - Basic unit - 1 Pkg.	945 (442)	1007 (457)
Electrical characteristics			208/230V, 460V, or 575V - 60 hertz - 3 phase	

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

1 Certified in accordance with the ULE certification program, which is based on ARI Standard 340/360, 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering evaporator air; minimum external duct static pressure.

2 Integrated Part Load Value rated at 80°F (27°C) outdoor air temperature.

3 Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

4 Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

SPECIFICATIONS

General Data			10 Ton			20 Ton		
	Nominal Tonnage		10 Ton			20 Ton		
	Model No.		LGE120H4			LGE240H4		
	Efficiency Type		High			High		
Cooling Performance	Gross Cooling Capacity - Btuh (kW)		126,000 (36.9)			248,000 (72.6)		
	[1] Net Cooling Capacity - Btuh (kW)		120,000 (35.2)			240,000 (70.3)		
	ARI Rated Air Flow - cfm (L/s)		3700 (1745)			7000 (3305)		
	Total Unit Power (kW)		10.9			21.8		
	[1] SEER (Btuh/Watt)		N/A			N/A		
	[1] EER (Btuh/Watt)		11.0			11.0		
	[2] Integrated Part Load Value (Btuh/Watt)		11.8			12.0		
	Refrigerant Charge Furnished R-410A	Circuit 1	12 lbs. 8 oz. (5.7 kg)			11 lbs. 8 oz. (5.7 kg)		
		Circuit 2	11 lbs. 0 oz. (5.0 kg)			11 lbs. 8 oz. (5.7 kg)		
		Circuit 3	- - -			11 lbs. 8 oz. (5.7 kg)		
		Circuit 4	- - -			11 lbs. 8 oz. (5.7 kg)		
	[3] Sound Rating Number (dB)		87			92		
Gas Heating Performance	**Heat Input Type**		**Standard 2 Stage**	**Medium 2 Stage**	**High 2 Stage**	**Standard 2 Stage**	**Medium 2 Stage**	**High 2 Stage**
	Gas Input Btuh (kW) Nat.	First Stage	84,500 (24.8)	117,000 (34.3)	156,000 (45.7)	169,000 (49.5)	234,000 (68.6)	312,000 (91.4)
		Second Stage	130,000 (38.1)	180,000 (52.7)	240,000 (70.3)	260,000 (76.1)	360,000 (105.5)	480,000 (140.6)
	Output	Second Stage	104,000 (30.5)	144,000 (42.2)	192,000 (56.3)	208,000 (60.9)	288,000 (84.4)	384,000 (115.5)
	Gas Input Btuh (kW) LPG	First Stage	94,000 (27.5)	130,000 (38.1)	173,000 (50.7)	187,000 (54.8)	259,000 (75.9)	346,000 (101.4)
		Second Stage	130,000 (38.1)	180,000 (52.7)	240,000 (45.7)	260,000 (76.1)	360,000 (105.5)	480,000 (140.6)
	Output	Second Stage	104,000 (30.5)	144,000 (42.2)	192,000 (56.3)	208,000 (60.9)	288,000 (84.4)	384,000 (115.5)
	Recommended Gas Supply Pressure - Natural		7.0	7.0	7.0	7.0	7.0	7.0
	LPG/Propane		11.0	11.0	11.0	11.0	11.0	11.0
	CSA Thermal Efficiency		80			80		
	Gas Supply Connections		3/4			1		
	Compressor Type (No.)		Scroll (2)			Scroll (4)		
Condenser Coil	Net face area - sq. ft. (m^2)		27.7 (2.6)			56.5 (5.2)		
	Tube diameter - in. (mm)		3/8 (9.5)			3/8 (9.5)		
	Number of rows		2			2		
	Fins per inch (m)		20 (787)			20 (787)		
Condenser Fan(s)	Motor horsepower (W)		(2) 1/3 (249)			(4) 1/3 (249)		
	Motor rpm		1075			1075		
	Total Motor watts		700			1400		
	Diameter - in. (mm)		(2) 24 (610)			(4) 24 (610)		
	Number of blades		3			3		
	Total air volume - cfm (L/s)		8000 (3775)			15,500 (7315)		
Evaporator Coil	Net face area - sq. ft. (m^2)		10.7 (0.99)			21.3 (2.0)		
	Tube diameter - in. (mm)		3/8 (9.5)			3/8 (9.5)		
	Number of rows		4			4		
	Fins per inch (m)		14 (551)			14 (551)		
	Drain connection - no. & size		(1) 1 (25)			(1) 1 (25)		
	Expansion device type		Thermostatic Expansion Valve					
[4] Indoor Blower and Drive Selection	Nominal motor output		3 (2.2)			5 (3.7)		
	Maximum usable motor output		3.45 (2.6)			5.75 (4.3)		
	RPM Range		660 - 850			700 - 880		
	Wheel nominal diameter x width in. (mm)		(1) 15 x 15 (381 x 381)			(2) 15 x 15 (381 x 381)		
Filters	Type of filter		Farr 30-30 or equivalent					
	Number and size - in. (mm)		(4) 16 x 25 x 2 (406 x 635 x 51)			(9) 16 x 25 x 2 (406 x 635 x 51)		
Shipping Data lbs. (kg)	Net wt. - Basic unit with accessories		1772 (805)			2860 (1297)		
	Shipping weight - Basic unit - 1 Pkg.		1870 (850)			2960 (1343)		
	Electrical characteristics		208/230V, 460V, or 575V - 60 hertz - 3 phase					

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

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2 Integrated Part Load Value rated at 80°F (27°C) outdoor air temperature.

3 Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

4 Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

STANDARD FEATURES

Outdoor Air Damper

Circuit Breaker

GFCI service outlets (115v). Field wiring required.

FACTORY INSTALLED OPTIONS

LPG/Propane Conversion

Stainless Steel Heat Exchanger

Danfoss Control

Novar Control

Economizer - Modulating IAQ Ready

Corrosion Protection — Phenolic epoxy coating applied to condenser and evaporator coils. Painted bases and inside surfaces.

Smoke Detector (supply or return air) with 115v/24v transformer. Field wiring required.

Power Exhaust Fans - LGE120H and LGE240H

FIELD INSTALLED ACCESSORIES

Gas Pressure Regulator **(79J05)**

ELECTRICAL DATA

Model No.		LGE036H4			LGE060H4		
Line voltage data - 60 Hz - 3 phase		208/230V	460V	575V	208/230V	460V	575V
[1] Maximum Overcurrent Protection (amps)		30	15	15	40	20	15
[2] Minimum Circuit Ampacity		23	11	9	28	14	11
Compressor	Rated load amps	11.5	5.1	4.3	15.6	7.8	5.8
	Locked rotor amps	77	35	36	110	52	35.5
Condenser Fan Motor	Full load amps	2.4	1.3	1.0	2.4	1.3	1.0
	Locked rotor amps	4.7	2.4	1.9	4.7	2.4	1.9
Evaporator Blower Motor	Motor Output - hp (Kw)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)
	Full load amps	5.7	2.8	2.4	5.7	2.8	2.4
	Locked rotor amps	40	20	13.2	40	20	13.2
Service Outlet (2) 115 volt GFCI (amp rating)		20	20	15	20	20	15

NOTE - Extremes of operating range are plus and minus 10 % of line voltage.
1 HACR type breaker or fuse.
2 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

Model No.		LGE120H4			LGE240H4		
Line voltage data - 60 Hz - 3 phase		208/230V	460V	575V	208/230V	460V	575V
[1] Maximum Overcurrent Protection (amps)	With Exhaust Fan	60	30	25	110	50	40
	Less Exhaust Fan	60	30	20	100	50	40
[2] Minimum Circuit Ampacity	With Exhaust Fan	54	27	21	99	49	38
	Less Exhaust Fan	51	25	19	93	46	35
Compressors	Number	2	2	2	4	4	4
	Rated load amps - each (total)	15.6 (31.2)	7.8 (15.6)	5.8 (11.6)	15.6 (62.4)	7.8 (31.2)	5.8 (23.2)
	Locked rotor amps - each (total)	110 (220)	52 (104)	35.5 (71)	110 (440)	52 (208)	35.5 (142)
Condenser Fan Motors	Number	2	2	2	4	4	4
	Full load amps - each (total)	2.4 (4.8)	1.3 (2.6)	1.0 (2.0)	2.4 (9.6)	1.3 (5.2)	1.0 (4.0)
	Locked rotor amps - each (total)	4.7 (9.4)	2.4 (4.8)	1.9 (3.8)	4.7 (18.8)	2.4 (9.6)	1.9 (7.6)
Evaporator Blower Motor	Motor Output - hp (kW)	3 (2.2)	3 (2.2)	3 (2.2)	5 (3.7)	5 (3.7)	5 (3.7)
	Full load amps	10.6	4.8	3.9	16.7	7.6	6.1
	Locked rotor amps	58.0	26.8	16.2	105	45.6	36.6
Optional Power Exhaust Fan	(Number) Horsepower (W)	(1) 1/2 (373)	(1) 1/2 (373)	(1) 1/2 (373)	(2) 1/2 (373)	(2) 1/2 (373)	(2) 1/2 (373)
	Full load amps	3.0	1.5	1.2	3.0 (6.0)	1.5 (3.0)	1.2 (2.4)
	Locked rotor amps	6.0	3.0	2.9	6.0 (12.0)	3.0 (6.0)	2.9 (5.8)
Service Outlet (2) 115 volt GFCI (amp rating)		20	20	15	20	20	15

NOTE - Extremes of operating range are plus and minus 10 % of line voltage.
1 HACR type breaker or fuse.
2 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

RATINGS

LGE036H4B COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	960	455	35.4	10.4	1.94	.72	.85	.97	33.8	9.9	2.25	.73	.87	.99	32.1	9.4	2.60	.75	.89	1.00	30.1	8.8	2.99	.77	.92	1.00
	1200	565	36.9	10.8	1.95	.77	.92	1.00	35.2	10.3	2.25	.79	.95	1.00	33.4	9.8	2.60	.81	.97	1.00	31.5	9.2	2.99	.83	.99	1.00
	1440	680	38.2	11.2	1.95	.82	.98	1.00	36.5	10.7	2.26	.85	.99	1.00	34.7	10.2	2.60	.87	1.00	1.00	32.9	9.6	2.99	.90	1.00	1.00
67°F (19°C)	960	455	37.9	11.1	1.95	.56	.69	.82	36.1	10.6	2.25	.57	.71	.84	34.2	10.0	2.60	.58	.72	.86	32.1	9.4	3.00	.59	.74	.89
	1200	565	39.2	11.5	1.96	.60	.75	.89	37.3	10.9	2.26	.60	.76	.91	35.3	10.3	2.60	.62	.78	.94	33.2	9.7	2.99	.63	.81	.97
	1440	680	40.1	11.8	1.96	.63	.80	.96	38.2	11.2	2.26	.64	.82	.98	36.1	10.6	2.60	.66	.85	.99	33.9	9.9	2.99	.67	.88	1.00
71°F (22°C)	960	455	40.5	11.9	1.96	.42	.55	.66	38.6	11.3	2.26	.43	.55	.68	36.6	10.7	2.61	.43	.56	.70	34.4	10.1	3.00	.43	.58	.72
	1200	565	41.8	12.3	1.96	.44	.58	.72	39.8	11.7	2.27	.44	.59	.74	37.7	11.0	2.61	.44	.60	.76	35.3	10.3	3.00	.45	.62	.79
	1440	680	42.7	12.5	1.97	.45	.62	.78	40.6	11.9	2.27	.45	.63	.80	38.4	11.3	2.61	.46	.65	.83	36.0	10.6	3.00	.47	.67	.85

LGE060H4B COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1600	755	60.1	17.6	3.59	.71	.85	.98	57.2	16.8	4.08	.72	.87	1.00	54.0	15.8	4.64	.74	.90	1.00	50.6	14.8	5.30	.77	.94	1.00
	2000	945	62.5	18.3	3.62	.77	.93	1.00	59.4	17.4	4.11	.79	.96	1.00	56.2	16.5	4.67	.81	.98	1.00	52.9	15.5	5.32	.84	1.00	1.00
	2400	1135	64.6	18.9	3.64	.83	.99	1.00	61.6	18.1	4.14	.85	1.00	1.00	58.5	17.1	4.70	.88	1.00	1.00	55.1	16.1	5.35	.91	1.00	1.00
67°F (19°C)	1600	755	63.8	18.7	3.64	.56	.69	.82	60.7	17.8	4.13	.56	.70	.84	57.2	16.8	4.69	.57	.72	.87	53.5	15.7	5.34	.59	.74	.90
	2000	945	65.8	19.3	3.67	.59	.74	.90	62.5	18.3	4.15	.60	.76	.93	58.9	17.3	4.71	.61	.79	.96	55.0	16.1	5.36	.63	.82	.99
	2400	1135	67.3	19.7	3.68	.62	.80	.97	63.9	18.7	4.17	.64	.83	.99	60.2	17.6	4.73	.66	.86	1.00	56.2	16.5	5.38	.68	.89	1.00
71°F (22°C)	1600	755	68.0	19.9	3.69	.42	.54	.66	64.6	18.9	4.18	.42	.55	.68	60.9	17.8	4.75	.42	.56	.70	56.9	16.7	5.39	.43	.58	.72
	2000	945	69.9	20.5	3.72	.43	.58	.72	66.4	19.5	4.21	.43	.59	.74	62.5	18.3	4.77	.44	.60	.76	58.2	17.1	5.41	.45	.62	.80
	2400	1135	71.2	20.9	3.74	.44	.61	.78	67.5	19.8	4.23	.45	.63	.81	63.5	18.6	4.79	.46	.65	.84	59.2	17.3	5.43	.46	.67	.87

LGE120H4B PART LOAD COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			65°F (18°C)						75°F (24°C)						85°F (29°C)						95°F (35°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	3200	1510	66.1	19.4	2.57	.59	.74	.92	63.6	18.6	2.94	.59	.76	.94	60.9	17.8	3.35	.60	.79	.97	58.1	17.0	3.80	.62	.81	.99
	4000	1890	68.7	20.1	2.58	.63	.84	1.00	66.1	19.4	2.96	.65	.87	1.00	63.4	18.6	3.36	.67	.89	1.00	60.4	17.7	3.82	.69	.93	1.00
	4800	2265	70.9	20.8	2.60	.70	.93	1.00	68.3	20.0	2.97	.72	.95	1.00	65.5	19.2	3.38	.75	.98	1.00	62.5	18.3	3.84	.78	1.00	1.00
67°F (19°C)	3200	1510	70.3	20.6	2.59	.46	.56	.69	67.6	19.8	2.97	.47	.57	.71	64.7	19.0	3.38	.47	.58	.74	61.6	18.1	3.83	.48	.60	.77
	4000	1890	72.7	21.3	2.61	.49	.61	.79	69.8	20.5	2.98	.49	.62	.82	66.8	19.6	3.39	.50	.64	.85	63.5	18.6	3.85	.51	.66	.88
	4800	2265	74.4	21.8	2.62	.51	.67	.89	71.5	21.0	2.99	.52	.69	.91	68.3	20.0	3.41	.53	.72	.95	64.9	19.0	3.87	.54	.75	.98
71°F (22°C)	3200	1510	74.9	22.0	2.62	.35	.45	.54	72.0	21.1	3.00	.35	.45	.55	68.9	20.2	3.41	.35	.46	.56	65.7	19.3	3.87	.36	.46	.57
	4000	1890	77.3	22.7	2.64	.36	.47	.59	74.2	21.7	3.02	.36	.48	.60	71.0	20.8	3.43	.36	.49	.61	67.5	19.8	3.89	.37	.50	.63
	4800	2265	78.9	23.1	2.65	.37	.50	.64	75.7	22.2	3.03	.37	.51	.66	72.3	21.2	3.44	.38	.52	.69	68.7	20.1	3.90	.38	.53	.72

LGE120H4B FULL LOAD COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	3200	1510	121.9	35.7	7.37	.67	.82	.97	116.3	34.1	8.37	.68	.84	.99	110.2	32.3	9.55	.70	.88	1.00	103.6	30.4	10.91	.72	.91	1.00
	4000	1890	126.6	37.1	7.43	.72	.91	1.00	120.8	35.4	8.44	.74	.94	1.00	114.6	33.6	9.61	.77	.97	1.00	108.1	31.7	10.96	.80	1.00	1.00
	4800	2265	130.7	38.3	7.48	.79	.98	1.00	125.0	36.6	8.50	.81	1.00	1.00	119.1	34.9	9.67	.85	1.00	1.00	112.6	33.0	11.04	.88	1.00	1.00
67°F (19°C)	3200	1510	129.2	37.9	7.47	.52	.65	.78	123.2	36.1	8.47	.53	.66	.80	116.7	34.2	9.64	.54	.68	.83	109.4	32.1	11.01	.55	.70	.87
	4000	1890	133.3	39.1	7.52	.56	.70	.88	126.9	37.2	8.54	.57	.72	.90	120.0	35.2	9.71	.58	.74	.94	112.6	33.0	11.05	.59	.78	.97
	4800	2265	136.2	39.9	7.57	.59	.76	.96	129.6	38.0	8.59	.60	.79	.98	122.6	35.9	9.75	.62	.82	1.00	115.0	33.7	11.10	.63	.86	1.00
71°F (22°C)	3200	1510	137.5	40.3	7.59	.39	.51	.62	131.1	38.4	8.59	.40	.52	.64	124.2	36.4	9.76	.40	.53	.65	116.4	34.1	11.13	.40	.54	.67
	4000	1890	141.4	41.4	7.64	.40	.54	.68	134.6	39.4	8.66	.41	.55	.70	127.2	37.3	9.82	.41	.57	.72	119.3	35.0	11.17	.42	.58	.75
	4800	2265	144.0	42.2	7.69	.42	.58	.74	137.0	40.2	8.70	.42	.59	.77	129.4	37.9	9.86	.43	.61	.80	121.2	35.5	11.21	.44	.63	.84

RATINGS

LGE240H4B PART LOAD COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			65°F (18°C)						75°F (24°C)						85°F (29°C)						95°F (35°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	6400	3020	131.1	38.4	5.92	.60	.75	.92	126.1	37.0	6.74	.61	.77	.95	120.8	35.4	7.64	.62	.80	.98	115.1	33.7	8.69	.63	.83	1.00
	8000	3775	136.3	39.9	5.98	.65	.85	1.00	131.1	38.4	6.80	.66	.88	1.00	125.5	36.8	7.71	.69	.91	1.00	119.6	35.1	8.76	.71	.94	1.00
	9600	4530	140.6	41.2	6.02	.71	.94	1.00	135.3	39.7	6.84	.74	.96	1.00	129.7	38.0	7.76	.76	.99	1.00	123.9	36.3	8.82	.79	1.00	1.00
67°F (19°C)	6400	3020	139.3	40.8	6.01	.47	.58	.71	133.9	39.2	6.84	.48	.59	.73	128.1	37.5	7.76	.48	.60	.75	122.0	35.8	8.79	.49	.61	.78
	8000	3775	144.0	42.2	6.06	.50	.62	.80	138.3	40.5	6.88	.50	.63	.83	132.1	38.7	7.81	.51	.66	.86	125.7	36.8	8.86	.52	.68	.90
	9600	4530	147.3	43.2	6.11	.52	.69	.90	141.4	41.4	6.93	.53	.71	.93	135.1	39.6	7.86	.54	.73	.96	128.3	37.6	8.90	.56	.77	.99
71°F (22°C)	6400	3020	148.3	43.5	6.11	.36	.46	.56	142.5	41.8	6.95	.36	.46	.56	136.4	40.0	7.87	.36	.47	.58	129.9	38.1	8.92	.36	.48	.59
	8000	3775	152.9	44.8	6.17	.37	.48	.60	146.8	43.0	7.00	.37	.49	.61	140.3	41.1	7.93	.37	.50	.63	133.2	39.0	8.98	.38	.51	.65
	9600	4530	156.2	45.8	6.21	.38	.51	.66	149.7	43.9	7.05	.38	.52	.68	142.9	41.9	7.97	.38	.53	.71	135.7	39.8	9.02	.39	.55	.74

LGE240H4B FULL LOAD COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	6400	3020	240.9	70.6	15.28	.67	.83	.98	229.3	67.2	17.37	.69	.85	1.00	216.8	63.5	19.79	.70	.88	1.00	203.1	59.5	22.59	.73	.92	1.00
	8000	3775	250.2	73.3	15.41	.73	.92	1.00	238.2	69.8	17.49	.75	.95	1.00	225.5	66.1	19.91	.78	.98	1.00	212.3	62.2	22.69	.81	1.00	1.00
	9600	4530	258.6	75.8	15.50	.80	.99	1.00	246.9	72.4	17.61	.82	1.00	1.00	234.5	68.7	20.04	.86	1.00	1.00	221.1	64.8	22.84	.90	1.00	1.00
67°F (19°C)	6400	3020	255.4	74.9	15.48	.53	.65	.79	243.0	71.2	17.55	.53	.66	.81	229.2	67.2	20.00	.54	.68	.84	214.4	62.8	22.79	.56	.70	.88
	8000	3775	263.4	77.2	15.61	.56	.70	.88	250.1	73.3	17.70	.57	.72	.91	236.0	69.2	20.09	.58	.75	.95	220.4	64.6	22.88	.60	.79	.99
	9600	4530	269.2	78.9	15.69	.59	.77	.97	255.5	74.9	17.77	.60	.80	.99	240.8	70.6	20.18	.62	.83	1.00	225.1	66.0	22.96	.64	.88	1.00
71°F (22°C)	6400	3020	271.9	79.7	15.72	.39	.51	.63	258.5	75.8	17.81	.40	.52	.64	243.9	71.5	20.24	.40	.53	.66	228.1	66.8	23.00	.40	.54	.68
	8000	3775	279.6	81.9	15.84	.41	.55	.68	265.4	77.8	17.93	.41	.56	.70	250.0	73.3	20.34	.41	.57	.73	233.4	68.4	23.12	.42	.59	.76
	9600	4530	284.7	83.4	15.91	.42	.58	.75	269.9	79.1	18.01	.42	.60	.77	254.3	74.5	20.41	.43	.61	.81	237.0	69.5	23.19	.44	.64	.85

BLOWER DATA

LGE036H AND LGE060H BLOWER PERFORMANCE

Air Volume cfm (L/s)	TOTAL STATIC PRESSURE EXTERNAL TO UNIT — inches water gauge (Pa)															
	.10 (25)		.20 (50)		.30 (75)		.40 (100)		.50 (124)		.60 (150)		.70 (174)		.80 (200)	
	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)
900 (425)	525	0.10 (0.07)	630	0.15 (0.11)	725	0.20 (0.15)	805	0.25 (0.19)	875	0.30 (0.22)	945	0.35 (0.26)	1005	0.40 (0.30)	1065	0.50 (0.37)
1000 (470)	560	0.10 (0.07)	660	0.15 (0.11)	745	0.20 (0.15)	825	0.25 (0.19)	895	0.35 (0.26)	960	0.40 (0.30)	1025	0.45 (0.34)	1085	0.55 (0.41)
1100 (520)	600	0.15 (0.11)	690	0.20 (0.15)	775	0.25 (0.19)	850	0.30 (0.22)	920	0.35 (0.26)	985	0.45 (0.34)	1045	0.50 (0.37)	1100	0.55 (0.41)
1200 (565)	635	0.20 (0.15)	725	0.25 (0.19)	805	0.30 (0.22)	875	0.35 (0.26)	945	0.40 (0.30)	1005	0.50 (0.37)	1065	0.55 (0.41)	1120	0.65 (0.48)
1300 (615)	670	0.20 (0.15)	755	0.30 (0.22)	835	0.35 (0.26)	905	0.40 (0.30)	970	0.50 (0.37)	1030	0.55 (0.41)	1090	0.60 (0.45)	1140	0.70 (0.52)
1400 (660)	710	0.25 (0.19)	790	0.35 (0.26)	865	0.40 (0.30)	930	0.45 (0.34)	995	0.55 (0.41)	1055	0.60 (0.45)	1110	0.70 (0.52)	1165	0.75 (0.56)
1500 (710)	750	0.30 (0.22)	825	0.40 (0.30)	895	0.45 (0.34)	960	0.50 (0.37)	1025	0.60 (0.45)	1080	0.70 (0.52)	1135	0.75 (0.56)	1190	0.85 (0.63)
1600 (755)	790	0.40 (0.30)	860	0.45 (0.34)	930	0.50 (0.37)	995	0.60 (0.45)	1050	0.65 (0.48)	1110	0.75 (0.56)	1160	0.85 (0.63)	1215	0.90 (0.67)
1700 (800)	830	0.45 (0.34)	900	0.50 (0.37)	965	0.60 (0.45)	1025	0.65 (0.48)	1085	0.75 (0.56)	1135	0.85 (0.63)	1190	0.90 (0.67)	1240	1.00 (0.75)
1800 (850)	870	0.50 (0.37)	935	0.60 (0.45)	1000	0.65 (0.48)	1060	0.75 (0.56)	1115	0.85 (0.63)	1165	0.95 (0.71)	1220	1.00 (0.75)	1265	1.10 (0.82)
1900 (895)	910	0.60 (0.45)	975	0.70 (0.52)	1035	0.75 (0.56)	1090	0.85 (0.63)	1145	0.95 (0.71)	1200	1.05 (0.78)	1245	1.10 (0.82)	1295	1.20 (0.90)
2000 (945)	950	0.70 (0.52)	1015	0.75 (0.56)	1070	0.85 (0.63)	1125	0.95 (0.71)	1180	1.05 (0.78)	1230	1.15 (0.86)	1280	1.25 (0.93)	1325	1.35 (1.01)
2100 (990)	995	0.80 (0.60)	1050	0.85 (0.63)	1110	0.95 (0.71)	1160	1.05 (0.78)	1215	1.15 (0.86)	1260	1.25 (0.93)	1310	1.35 (1.01)	1355	1.45 (1.08)
2200 (1040)	1035	0.90 (0.67)	1090	1.00 (0.75)	1145	1.10 (0.82)	1200	1.20 (0.90)	1245	1.30 (0.97)	1295	1.40 (1.04)	1340	1.50 (1.12)	1385	1.60 (1.19)
2300 (1085)	1075	1.00 (0.75)	1130	1.10 (0.82)	1185	1.20 (0.90)	1235	1.30 (0.97)	1280	1.40 (1.04)	1330	1.55 (1.16)	1375	1.65 (1.23)	1415	1.75 (1.31)
2400 (1135)	1120	1.15 (0.86)	1170	1.25 (0.93)	1220	1.35 (1.01)	1270	1.45 (1.08)	1320	1.55 (1.16)	1365	1.70 (1.27)	1405	1.80 (1.34)	1450	1.90 (1.42)
2500 (1180)	1160	1.25 (0.93)	1215	1.40 (1.04)	1260	1.50 (1.12)	1310	1.60 (1.19)	1355	1.70 (1.27)	1400	1.85 (1.38)	1440	1.95 (1.45)	1480	2.05 (1.53)

NOTE - All data is measured external to the unit with dry coil, 2 in. (51 mm) filters in place and roof mounting frame.

BLOWER DATA

LGE120H BLOWER PERFORMANCE

Air Volume cfm (L/s)	RPM & Motor Output	TOTAL STATIC PRESSURE EXTERNAL TO UNIT — inches water gauge (Pa)									
		0.1 (25)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1.0 (250)
3000 (1415)	RPM	510	555	600	650	695	740	790	840	885	935
	BHP	0.60	0.70	0.80	0.95	1.05	1.20	1.40	1.60	1.80	2.05
	kW	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.5
3500 (1650)	RPM	585	625	660	700	740	780	820	860	900	940
	BHP	0.95	1.05	1.15	1.30	1.40	1.60	1.75	1.90	2.10	2.35
	kW	0.7	0.8	0.9	1.0	1.0	1.2	1.3	1.4	1.6	1.8
4000 (1890)	RPM	660	690	725	760	795	830	860	895	930	965
	BHP	1.35	1.50	1.60	1.75	1.90	2.05	2.20	2.35	2.55	2.75
	kW	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.1
4500 (2125)	RPM	735	765	795	825	855	885	915	945	975	1005
	BHP	1.90	2.05	2.20	2.35	2.50	2.65	2.80	3.00	3.15	3.35
	kW	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.3	2.5
5000 (2360)	RPM	810	835	860	890	915	945	970	995	1025	1050
	BHP	2.60	2.75	2.85	3.05	3.20	3.40	3.55	3.70	3.90	4.10
	kW	1.9	2.1	2.1	2.3	2.4	2.5	2.6	2.8	2.9	3.1

NOTES: 1-All data is measured external to the unit cabinet with dry coil, 2 in. (51 mm) filters in place, and roof mounting frame.

LGE120H POWER EXHAUST FAN PERFORMANCE

Return Air System Static Pressure		Air Volume Exhausted	
in. wg.	Pa	cfm	L/s
.05	10	4085	1930
.10	25	3685	1740
.15	35	3280	1550
.20	50	2880	1360
.25	60	2475	1170

LGE240H BLOWER PERFORMANCE

Air Volume cfm (L/s)	TOTAL STATIC PRESSURE — Inches Water Gauge (Pa)																					
	.40 (100)		.50 (125)		.60 (150)		.70 (175)		.80 (200)		.90 (225)		1.00 (250)		1.10 (275)		1.20 (300)		1.30 (325)		1.40 (350)		1.50 (375)	
	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)	RPM	BHP (kW)
6000 (2830)	645	1.75 (1.31)	680	1.95 (1.46)	715	2.10 (1.57)	755	2.35 (1.75)	790	2.55 (1.90)	820	2.75 (2.05)	855	3.00 (2.24)	885	3.20 (2.39)	920	3.45 (2.57)	950	3.70 (2.76)	980	3.95 (2.95)	1005	4.15 (3.10)
6500 (3065)	670	2.05 (1.53)	705	2.25 (1.68)	740	2.45 (1.83)	775	2.70 (2.01)	810	2.95 (2.20)	840	3.15 (2.35)	875	3.40 (2.54)	905	3.65 (2.72)	935	3.90 (2.91)	965	4.15 (3.10)	995	4.40 (3.28)	1020	4.60 (3.43)
7000 (3305)	695	2.40 (1.79)	730	2.65 (1.98)	765	2.85 (2.13)	800	3.10 (2.31)	830	3.35 (2.50)	865	3.60 (2.69)	895	3.85 (2.87)	925	4.10 (3.06)	955	4.35 (3.25)	980	4.60 (3.43)	1010	4.85 (3.62)	1035	5.10 (3.81)
7500 (3540)	725	2.85 (1.98)	760	3.05 (2.28)	790	3.30 (2.46)	825	3.55 (2.65)	855	3.80 (2.84)	885	4.05 (3.02)	915	4.35 (3.25)	945	4.60 (3.43)	970	4.85 (3.62)	1000	5.15 (3.84)	1025	5.40 (4.03)	1055	5.70 (4.25)
8000 (3775)	755	3.30 (2.24)	790	3.55 (2.65)	820	3.80 (2.84)	850	4.05 (3.02)	880	4.35 (3.25)	910	4.60 (3.43)	940	4.90 (3.66)	965	5.15 (3.84)	995	5.45 (4.07)	1020	5.70 (4.25)	1045	6.00 (4.48)	1070	6.25 (4.66)
8500 (4010)	785	3.80 (2.84)	820	4.10 (3.06)	850	4.35 (3.25)	875	4.60 (3.43)	905	4.90 (3.66)	935	5.20 (3.88)	960	5.45 (4.07)	990	5.75 (4.29)	1015	6.05 (4.51)	1040	6.35 (4.74)	1065	6.60 (4.92)	1090	6.95 (5.19)
9000 (4245)	820	4.40 (3.28)	850	4.70 (3.51)	875	4.95 (3.69)	905	5.25 (3.92)	935	5.55 (4.14)	960	5.80 (4.33)	985	6.10 (4.55)	1015	6.45 (4.81)	1040	6.75 (5.04)	1065	7.05 (5.26)	1090	7.35 (5.48)	1115	7.70 (5.74)
9500 (4485)	850	5.00 (3.73)	880	5.35 (3.99)	910	5.65 (4.22)	935	5.95 (4.44)	960	6.20 (4.63)	985	6.50 (4.85)	1015	6.85 (5.11)	1040	7.20 (5.37)	1065	7.50 (5.60)	1085	7.75 (5.78)	1110	8.10 (6.04)	1135	8.45 (6.30)
10,000 (4720)	885	5.75 (4.29)	910	6.05 (4.48)	940	6.40 (4.77)	965	6.70 (5.00)	990	7.00 (5.22)	1015	7.30 (5.45)	1040	7.65 (5.71)	1065	7.95 (5.93)	1090	8.30 (6.19)	1110	8.60 (6.42)	1135	8.95 (6.68)	1160	9.35 (6.94)

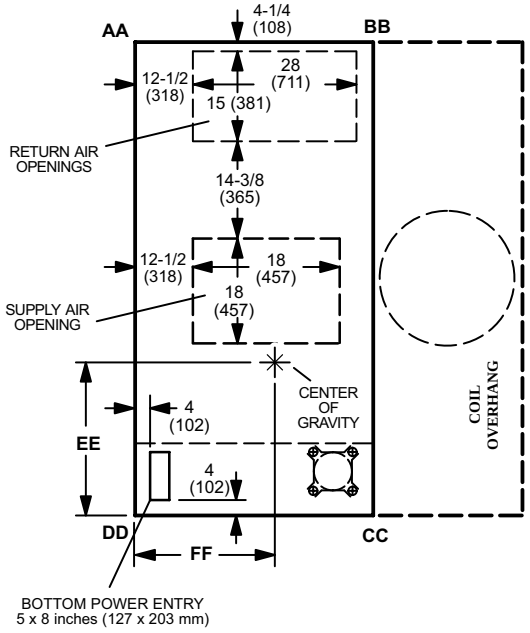
NOTES: 1-All data is measured external to the unit cabinet with dry coil, 2 in. (51 mm) filters in place, and roof mounting frame.

LGE240H POWER EXHAUST FAN PERFORMANCE

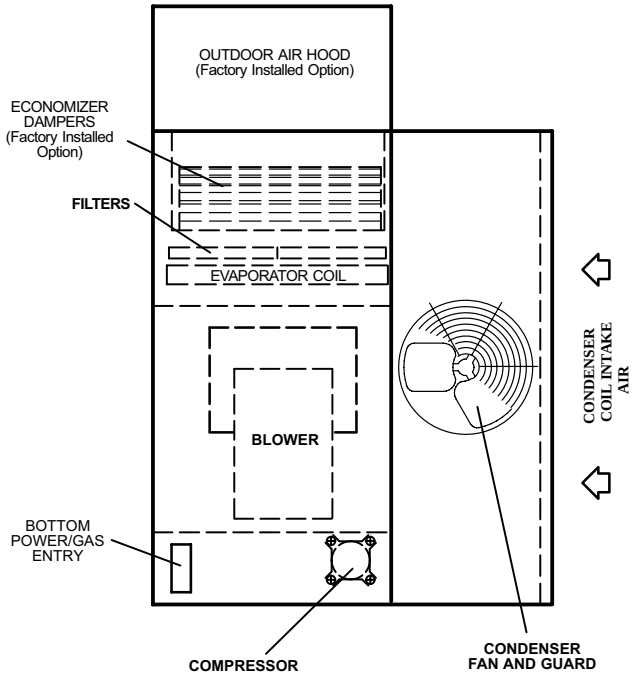
Return Air System Static Pressure		Air Volume Exhausted	
in. wg.	Pa	cfm	L/s
.05	10	8175	3860
.10	25	7370	3480
.15	35	6565	3100
.20	50	5760	2720
.25	60	4955	2340

Model Number	CORNER WEIGHTS — lbs. (kg)								CENTER OF GRAVITY — inches (mm)			
	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	inch	mm	inch	mm
LGE036H Max. Unit	158	72	206	94	305	139	233	106	33	838	29-3/16	741
LGE060H Max. Unit	160	73	230	104	339	154	235	107	33	838	30-3/16	767

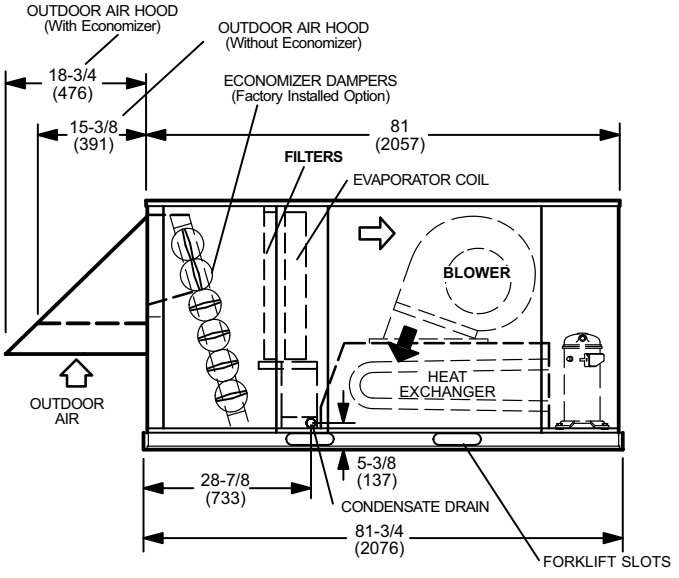
Max. Unit — The standard unit with ALL OPTIONS Installed. (Economizer and controls)



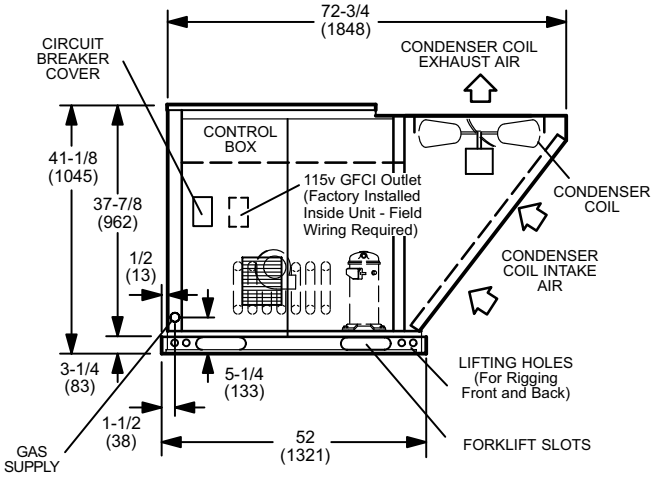
TOP VIEW BASE SECTION



TOP VIEW



SIDE VIEW

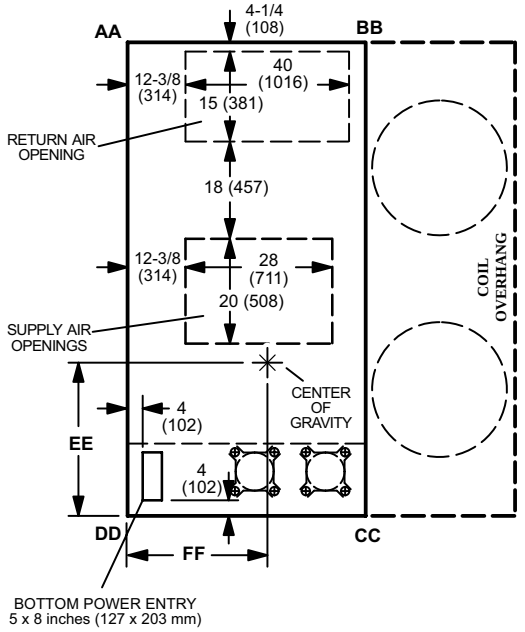


FRONT VIEW

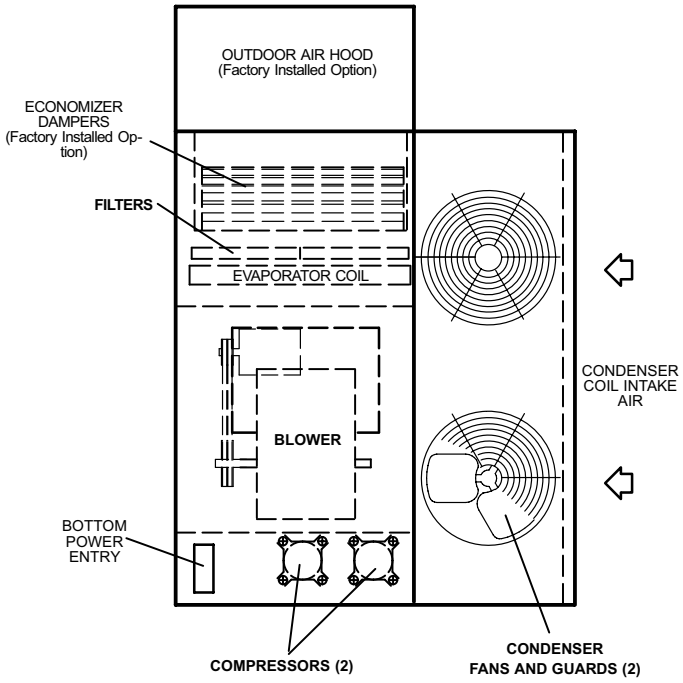
DIMENSIONS - INCHES (MM) LGE120H

Model Number	CORNER WEIGHTS — lbs. (kg)								CENTER OF GRAVITY — inches (mm)			
	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	inch	mm	inch	mm
LGE120H Max. Unit	358	163	475	216	535	243	404	184	42-5/8	1083	32-5/8	829

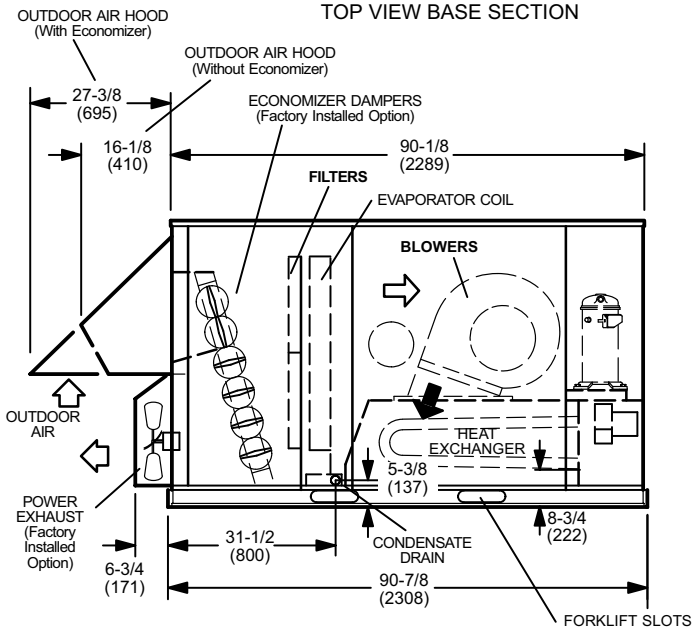
Max. Unit — The standard unit with ALL OPTIONS Installed. (Economizer, Power Exhaust Fan, Controls)



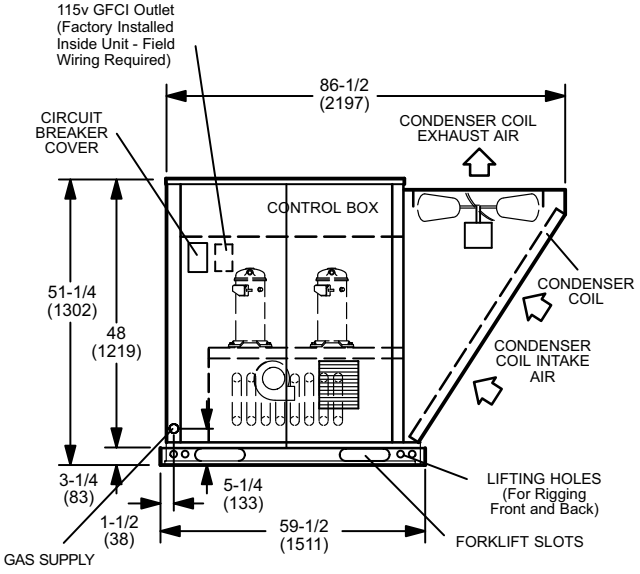
TOP VIEW BASE SECTION



TOP VIEW



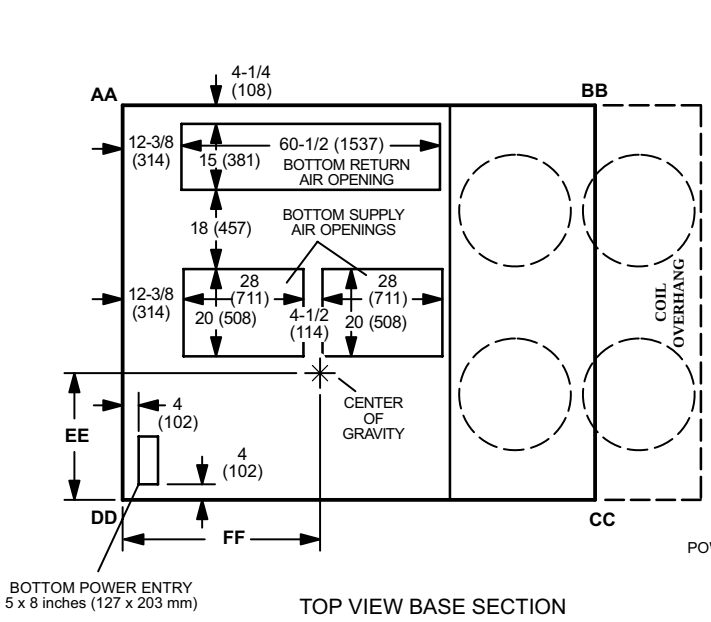
SIDE VIEW



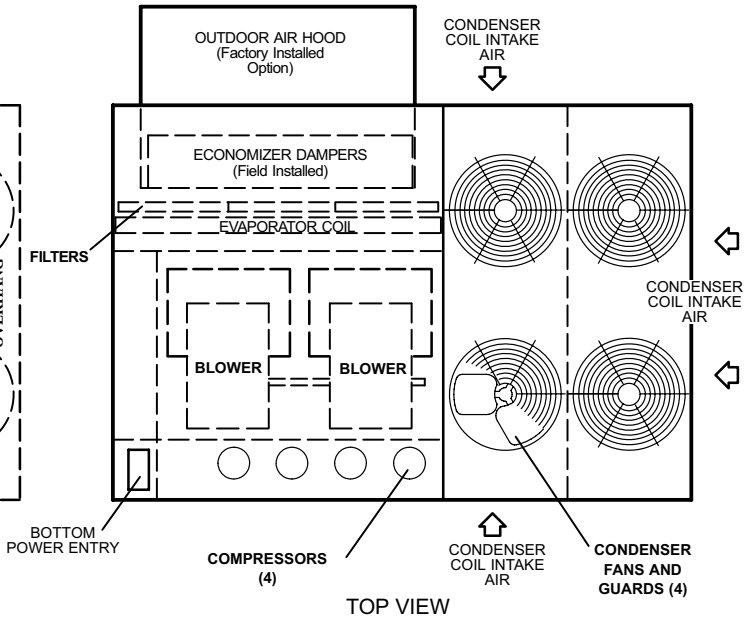
FRONT VIEW

Model Number	CORNER WEIGHTS — lbs. (kg)								CENTER OF GRAVITY — inches (mm)			
	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	inch	mm	inch	mm
LGE240H Max. Unit	599	272	610	277	833	378	818	371	37-1/2	953	54-1/4	1378

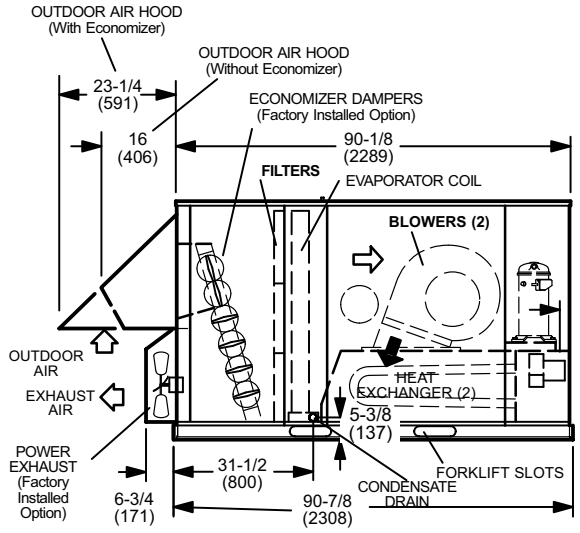
Max. Unit — The standard unit with ALL OPTIONS Installed. (Economizer, Power Exhaust Fans, Controls)



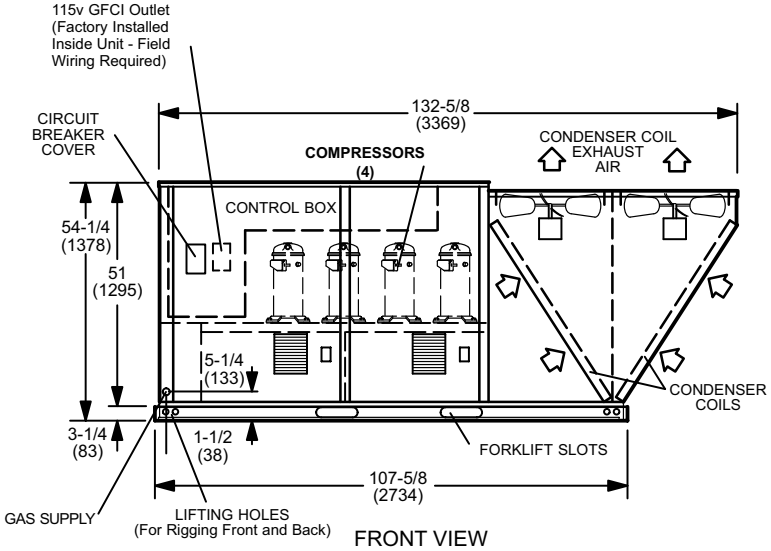
TOP VIEW BASE SECTION



TOP VIEW



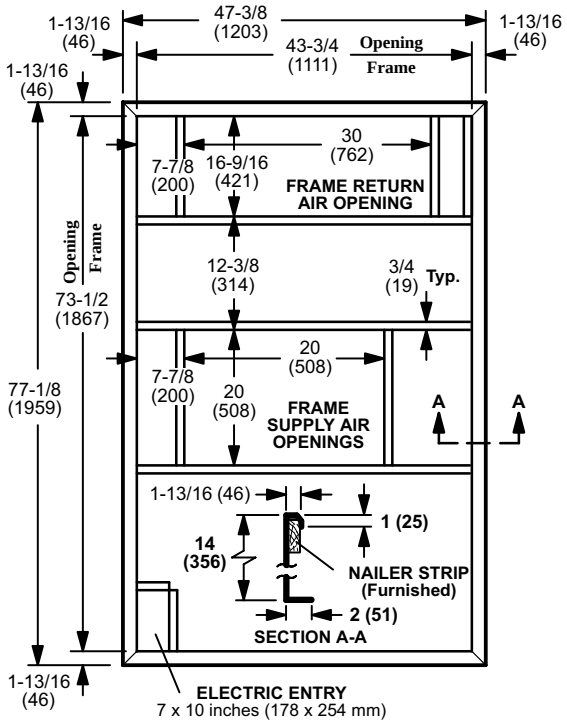
SIDE VIEW



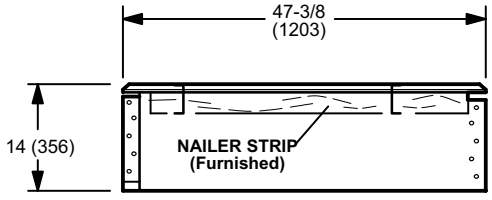
FRONT VIEW

ACCESSORY DIMENSIONS - INCHES (MM)

ROOF MOUNTING FRAME WITH DOUBLE DUCT OPENING - LGE036H-060H



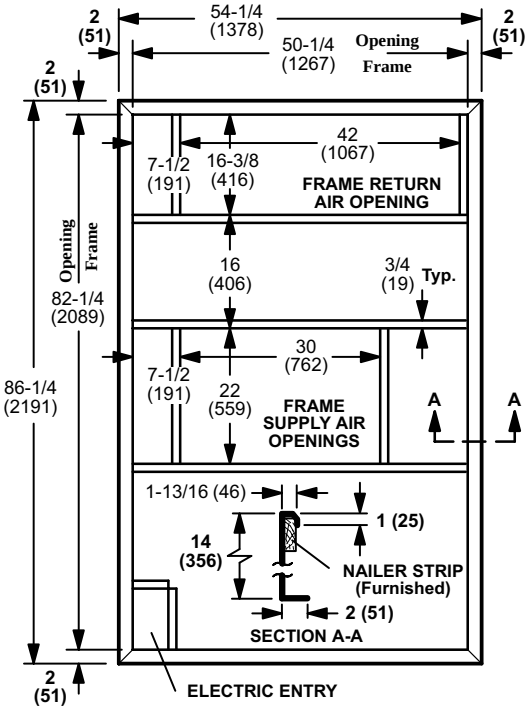
TOP VIEW



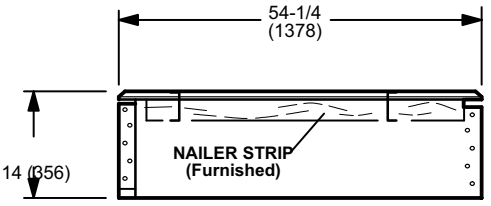
NOTE — Roof deck may be omitted within confines of frame.

SIDE VIEW

ROOF MOUNTING FRAME WITH DOUBLE DUCT OPENING - LGE120H



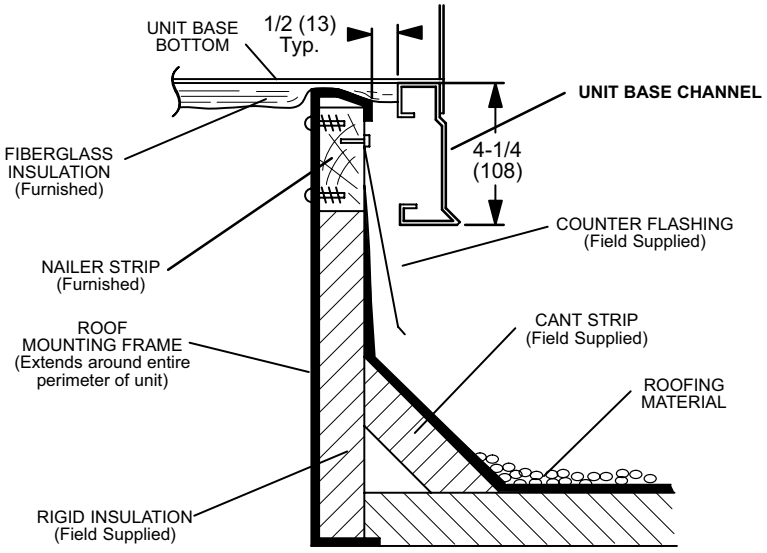
TOP VIEW



NOTE — Roof deck may be omitted within confines of frame.

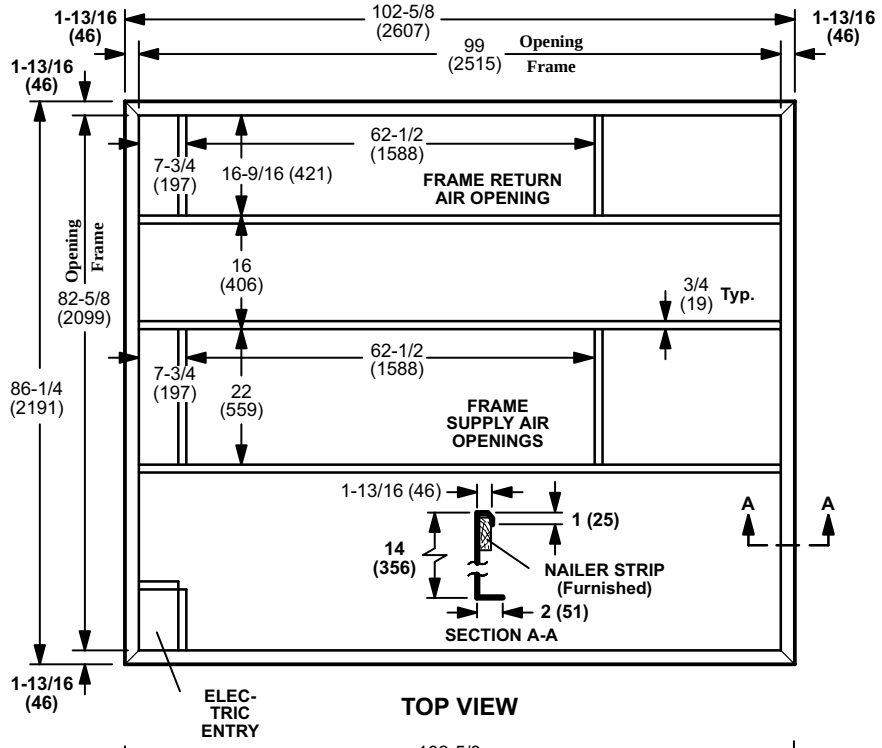
SIDE VIEW

TYPICAL FLASHING DETAIL FOR ROOF MOUNTING FRAME



ACCESSORY DIMENSIONS - INCHES (MM)

ROOF MOUNTING FRAME WITH DOUBLE DUCT OPENING - LGE240H



NOTE — Roof deck may be omitted within confines of frame.

SIDE VIEW

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Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
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