

SPECIFICATIONS

The furnace should be sized to provide 100 percent of the design heating load requirement plus any margin that occurs because of furnace model size capacity increments. None of the furnace model sizes can be used if the heating load is 20,000 BTU or lower. Use Air Conditioning Contractors of America (Manual J and S); American Society of Heating, Refrigerating, and Air-Conditioning Engineers; or other approved engineering

method to calculate heating load estimates and select the furnace. Excessive oversizing of the furnace may cause the furnace and/or vent to fail prematurely, customer discomfort and/or vent freezing. Failure to follow these guidelines is considered faulty installation and/or misapplication of the furnace; and resulting failure, damage, or repairs may impact warranty coverage.

Heating Capacity and Efficiency			040V14-10	040V17-12	060V14-12	060V17-14	080V17-16	080V21-20	100V21-20	120V24-22
Input	High Heat	(BTUH)	40,000	40,000	60,000	60,000	80,000	80,000	100,000	120,000
	Low Heat	(BTUH)	26,000	26,000	39,000	39,000	52,000	52,000	65,000	78,000
Output	High Heat	(BTUH)	39,000	39,000	58,000	58,000	78,000	78,000	97,000	117,000
	Low Heat	(BTUH)	25,000	25,000	38,000	38,000	50,000	51,000	63,000	76,000
Certified Temperature Rise Range °F (°C)	High Heat		40 – 70 (22 – 39)	40 – 70 (22 – 39)	40 – 70 (22 – 39)	40 – 70 (22 – 39)	40 – 70 (22 – 39)	40 – 70 (22 – 39)	40 – 70 (22 – 39)	40 – 70 (22 – 39)
	Low Heat		30 – 60 (17 – 33)	30 – 60 (17 – 33)	30 – 60 (17 – 33)	30 – 60 (17 – 33)	30 – 60 (17 – 33)	30 – 60 (17 – 33)	30 – 60 (17 – 33)	30 – 60 (17 – 33)
Airflow Capacity and Blower Data										
Rated External Static Pressure (in. w.c.)	Heating		0.10	0.10	0.12	0.12	0.15	0.15	0.20	0.20
	Cooling		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Airflow Delivery @ Rated ESP (CFM)	High Heat		800	850	1110	1135	1450	1555	1865	2120
	Low Heat		560	625	770	860	1130	1200	1435	1625
	Cooling		1030	1105	1115	1475	1655	2005	2005	2190
Cooling Capacity (tons) @ 400, 350 CFM/ton	400 CFM/ton		2	2.50	2.50	3.50	4	5	5	5
	350 CFM/ton		2.50	3	3	4	4.50	5.50	5.50	6
Direct-Drive Motor Type	Electronically Communicated Motor (ECM)									
Direct-Drive Motor HP			1/2	1/2	1/2	3/4	3/4	1	1	1
Motor Full Load Amps Default / Low Amp Kit†			6.30	6.50	6.30	10.10	9.20	13.9/10.4	13.9/10.4	11.7
RPM Range			600 – 2000	400 – 1200	600 – 2000	400 – 1200	400 – 1200	400 – 1200	400 – 1200	400 – 1200
Speed Selections	Variable (PWM)									
Blower Wheel Dia x Width	in.		11 x 7	11 x 8	11 x 7	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
Air Filtration System	Optional Media Cabinet Field Supplied Filter									
Filter Used for Certified Watt Data	KGAWF**06UFR									
Electrical Data										
Input Voltage	Volts-Hertz-Phase		115-60-1							
Operating Voltage Range	Min-Max		104-127							
Maximum Input Amps Default / Low Amp Kit†	Amps		7.0	7.2	7.1	10.9	10.0	14.7/11.3	14.7/11.3	12.6
Unit Ampacity Default / Low Amp Kit†	Amps		9.70	9.80	9.70	14.60	13.40	19.3/14.9	19.4/15.0	16.7
Minimum Wire Size Default / Low Amp Kit†	AWG		14	14	14	14	14	12/14	12/14	12
Maximum Wire Length @ Minimum Wire Size Default / Low Amp Kit†	Feet		38	37	38	25	27	29/24	29/24	34
	(M)		(11.7)	(11.5)	(11.7)	(7.7)	(8.4)	(9.0/7.5)	(9.0/7.5)	(10.5)
Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Default / Low Amp Kit†	Amps		15	15	15	15	15	20/15	20/15	20
Transformer Capacity (24vac output)	VA									
External Control Power Available	Heating		24.3 VA							
	Cooling		34.6 VA							
Controls										
Gas Connection Size	1/2" – NPT									
Burners (Monoport)			2	2	3	3	4	4	5	6
Gas Valve (Redundant)	Manufacturer		White Rodgers							
		Minimum Inlet Gas pressure (in. wc)	4.50							
		Maximum Inlet Gas pressure (in. wc)	13.60							
Manufactured (Mobile) Home Kit	<i>not approved for MH use</i>									
Ignition Device	Silicon Nitride									
Heating Blower Control (Heating Off-Delay)	Adjustable: 90, 120, 150, 180 seconds									
Cooling Blower Control (Time Delay Relay)	90 seconds									
Communication System	None									
Thermostat Connections	R, W/W1, W2 Y/Y2, Y1, G, Com 24V, DHUM									
Accessory Connections	EAC (115vac); HUM (24vac); 1-stg. AC (via Y/Y2)									

* See Accessory List for part numbers available.

† Low Amp Kit (KGAPC0101ECM) allows select furnaces to be installed with a 15 Amp Breaker and 14 AWG wire within the listed wire length.