

Specifications

	AGF80M080B4A
FUEL TYPE	Natural/Propane Gas
GAS HEATING PERFORMANCE	
Input (BTU/h)	80,000
Output (BTU/h)	64,000
Natural Gas	64,000
LP Gas	80
AFUE	2.5/3/3.5/4
Available AC @ 0.5" ESP Temperature Rise Range (°F)	30-60
ELECTRICAL DATA	
Voltage/Phase(60Hz)	115
Min. / Max. Voltage	104/127
Min. Circuit Ampacity	6
Max. Overcurrent Protection	15
FAN MOTOR	
Motor Type	ECM
Horsepower	1/2
Rated RPM	1050
Full Load Amps (FLA)	8
Capacitor (uF)	\
CIRCULATOR BLOWER	
Material	Metal
Type	Centrifugal
Size (D x H) (in.)	11-3/16x 9-41/64
Vent Diameter ¹	3"/4"
No. of Burners	5
Speed Mode Number	5

Consumption system specifications

Model			AGF80 M080B4 A
Max. Inlet Gas Press	Natural Gas	in.w.c	10.5
	Propane Gas (LP)	in.w.c	13
Min. Inlet Gas Press	Natural Gas	in.w.c	4.5
	Propane Gas (LP)	in.w.c	11
Natural Gas Manifold Pressure (High/Low fire)		in.w.c	3.8
Propane Gas Manifold Pressure (High/Low fire)		in.w.c	10
Natural Gas Factory Orifice (0-2000 feet)		#	49
Propane Gas (LP) Factory Orifice (0-2000 feet)		#	56
Gas Connection Size		in. NPT	3/4
Igniton Device		Hot surface	
Number of Burners		#	5
Primary Heat exchanger Diameter		Inch	1-1/2
Primary Heat exchanger		# tubes	5
Flue Vent Diameter		Inch	1-49/64
Safety Switch Settings			
Pressure Switch Factory Setting		Low in.w.c	0.55
Rollout switch - resettable		Off/ On °F	300
Inlet High Temperature Limit switch - fixed		Off/ On °F	180/150

Airflow Data

Air Delivery - CFM without filter

FURNACE SIZE	SPEED	Static Pressure	0	0.2	0.4	0.6	0.8	1
80B	H	[SCFM]	1301	1294	1313	1325	1301	1288
		Temp.Rise °F	46	46	45	45	46	46
	MH	[SCFM]	1101	1106	1103	1106	1077	1142
		Temp.Rise °F	54	54	54	54	55	52
	M	[SCFM]	901	899	889	886	879	918
		Temp.Rise °F	/	/	/	/	/	/
	ML	[SCFM]	800	816	841	783	824	813
		Temp.Rise °F	/	/	/	/	/	/
	L	[SCFM]	600	631	635	612	601	610
		Temp.Rise °F	/	/	/	/	/	/

Filter Size Information - In.

FURNACE CASING WIDTH (IN.)	FILTER SIZE		FILTER TYPE
	SIDE RETURN (IN.)	BOTTOM RETURN (IN.)	
14-1/2	16X25	14X25	High Velocity (600 FPM)
17-1/2	16X25	16X25	
21	16X25	20X25	
24.5	16X25	24X25	

Minimum Area in Square Inch Required for Each Opening

BTUH Input Rating	Minimum Free Area in Square Inch Required for Each Opening
80,000	80 in ²

Minimum Free Area Required for Each Opening

BTUH Input Rating	Minimum Free Area Required for Each Opening		
	Horizontal Duct (2,000 BTUH)	Vertical Duct or Opening to Outside (4,000 BTUH)	Round Duct (4,000 BTUH)
80,000	40 in ²	20 in ²	5 "
EXAMPLE: Determining Free Area. Appliance 1 Appliance 2 Total Input 100,000 + 30,000 = (130,000 ÷ 4,000) = 32.5 Sq. In. Vertical Appliance 1 Appliance 2 Total Input 100,000 + 30,000 = (130,000 ÷ 2,000) = 65 Sq. In. Horizontal			

Piston

High Altitude Derate Orifice Size Chart (Natural and LP Gas*)

Input Rate KBTU/H	Number of Burner	Elevation (Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
80B	5	49	56	50	57	51	58	52	59	53	61

*LP orifice based on 10 in.w.c manifold pressure

The input to the furnace must be checked AFTER reorificing.

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Features

- Durable aluminized steel tubular heat exchanger.
- Hot-surface ignition for dependable operation.
- Quiet multi-speed direct-drive Blower.
- Natural gas and propane (LP) convertible.
- Designed for multi-position installation: Up flow, down flow, horizontal.
- Industry-standard cabinet sizes for easy replacement, installation and add-on cooling.
- Convenient left or right connection for gas and electric service.
- Removable bottom for side or bottom return application.

Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document. Tuttokool has a policy of continuous product and product data improvement and it reserves the right to change design and specification without notice.

