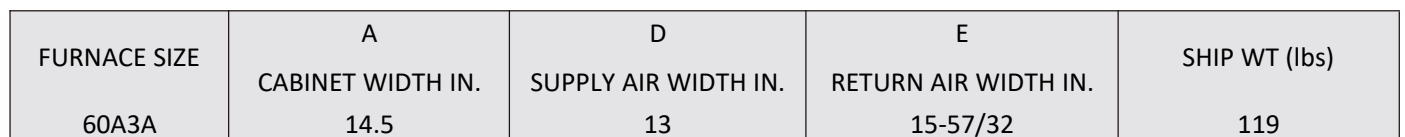


TAG:

Heating capacity: 20–120 kBTU/h



Specifications

	TGF80M060A3A	
FUEL TYPE	Natural/Propane Gas	
GAS HEATING PERFORMANCE		
Input (BTU/h)	60,000	
Natural Gas	48,000	
LP Gas	48,000	
AFUE	80	
Available AC @ 0.5" ESP	1.5/2/2.5/3	
Temperature Rise Range (° F)	25-55	
ELECTRICAL DATA		
Voltage/Phase (60Hz)	115	
Min. / Max. Voltage (V)	104/127	
Min. Circuit Ampacity (MCA) (A)	6	
Max. Overcurrent Protection (MOP) (A)	15	
FAN MOTOR		
Motor Type	ECM	
Horsepower (HP)	1/2	
Rated RPM	1050	
Full Load Amps (FLA) (A)	8	
Capacitor (uF)	\	
CIRCULATOR BLOWER		
Material	Metal	
Type	Centrifugal	
Size (D x H) (in.)	11-3/16 x 6-9/64	
	Vent Diameter (in.)	3/4
	No. of Burners	3
	Speed Mode Number	5

Specifications

Consumption system specifications

Model			060A3A
Max. Inlet Gas Press	10.5	in.w.c	10.5
	13	in.w.c	13
Min. Inlet Gas Press	4.5	in.w.c	4.5
	11	in.w.c	11
Natural Gas Manifold Pressure (High/Low fire)		3.5	3.0
Propane Gas Manifold Pressure (High/Low fire)		10	10
Natural Gas Factory Orifice (0-2000 feet)		45	50
Propane Gas (LP) Factory Orifice (0-2000 feet)		55	59
Gas Connection Size		3/4	3/4
Igniton Device Hot surface		Hot surface	
Number of Burners		3	3
Primary Heat exchanger Diameter		1-1/2	1-1/2
Primary Heat exchanger		3	3
Flue Vent Diameter		1-29/64	1-3/16
Safety Switch Settings			
Pressure Switch Factory Setting		0.5 5	0.55
Rollout switch - resettable		300 °F	300
Inlet High Temperature Limit switch - fixed		180 /15 0 °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
60A	H	[SCFM]	1149	1121	1160	1153	1143	1169
		Temp.Rise °F	39	40	39	39	39	38
	MH	[SCFM]	999	1008	994	1030	990	972
		Temp.Rise °F	45	44	45	43	45	46
	M	[SCFM]	799	777	797	782	828	809
		Temp.Rise °F	/	/	/	/	/	/
	ML	[SCFM]	600	611	622	611	577	632
		Temp.Rise °F	/	/	/	/	/	/
	L	[SCFM]	450	483	460	469	437	454
		Temp.Rise °F	/	/	/	/	/	/

FURNACE CASING WIDTH (IN.)	FILTER SIZE		FILTER TYPE
	SIDE RETURN (IN.)	BOTTOM RETURN (IN.)	
14-1/2	16 X 25	14 X 25	High Velocity (600 FPM)
17-1/2	16 X 25	16 X 25	
21	16 X 25	20 X 25	
24.5	16 X 25	24 X 25	

BTUH Input Rating	Minimum Free Area in Square Inch Required for Each Opening
40,000	40 in ²
60,000	60 in ²
80,000	80 in ²
100,000	100 in ²
120,000	120 in ²

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)
40,000	20 in ²	10 in ²	4"
60,000	30 in ²	15 in ²	5"
80,000	40 in ²	20 in ²	5"
100,000	50 in ²	25 in ²	6"
120,000	60 in ²	30 in ²	7"

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
60A	3	45	55	47	56	48	56	49	57	51	57

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

The input to the furnace must be checked AFTER reorificing.

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
60A	3	45	55	47	56	48	56	49	57	51	57

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

The input to the furnace must be checked AFTER reorificing.

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.
- R454b refrigerant leakage sensor adaptable
- UL60335-2-40 certified.
- 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.

