



GAS FIRED HYDRONIC HEATING BOILERS

Mini Gas Series



The Best Choice for quality and efficiency.

Residential heating applications including In-Floor, Radiant Panel and Baseboard.

Five Models ranging in size from 50,000 to 150,000 Btu/h

Natural or Propane Gas

MINI-GAS SERIES BOILERS



Allied Engineering is extremely proud of the popular compact Mini-Gas series that is ideal for today's energy efficient home, condominium or townhouse. Mini-Gas Hydronic Heating Boilers are manufactured to the highest standard for performance, efficiency, reliability and user-friendliness.

PERFORMANCE

Proven performance is provided by our stringent quality control procedures and years of experience in building boilers to ASME standards. Our rugged industrial design is a durable and long lasting solution to your heating needs.

EFFICIENCY

The key to the boiler efficiency is our unique DOUBLE-PASS steel finned tube heat exchanger. Using the strength of 2" OD boiler tube our engineers have greatly increased the heating surface by spirally and continuously welding a 1/2" fin to each heat exchanger tube. The result is one of the most efficient atmospheric boilers on the market today.

RELIABILITY

Over 50 years of water heating experience backed by unsurpassed service ensures customer reliability.

A Mini-Gas boiler, as your heat source, will keep you warm and comfortable when there is a call for heat. Scientifically designed roll formed high-grade stainless steel burners will give you years of trouble free service combined with energy efficiency. Tested and approved to 160 PSI working pressure.

USER FRIENDLINESS

All controls and devices are factory wired. A nice feature is a molex plug used as a quick connect for the vent damper. Connection of the blocked vent safety switch to the draft hood simply clips on. Most user-friendly is our packaged boiler that includes the circulator pump mounted to a custom cast iron adapter and prewired to the zone control board. Also, the cast adapter will accept a temperature gauge (i.e. 1/4" NPT) to accurately monitor return water temperature.

ZONE CONTROL BOARD

An innovative zone control system has four separate plug-ins for zone valves and L.E.D. display lights to show which zones are being heated. Additional zone control boards can be installed to increase the zone capabilities.



WARRANTY PROTECTION

Manufactured to the highest standards, employing only top quality materials and workmanship our proven design features a ten-year warranty on the heat exchanger and one-year on all parts and controls. Please refer to printed warranty for details. Installation operating and maintenance instructions supplied with every boiler.

MINI-GAS SERIES BOILERS



FEATURES AND COMPONENTS

1. Automatic Vent Damper

Supplied with all boilers, the vent closes when the boiler is not firing preventing heat loss and, more importantly, conserving energy.

2. Standard Draft Hood

Prevents down draft and exhaust flue gases through the chimney. Includes a quick connect Blocked Vent Safety Switch.

3. Circulator/Pump and Cast Iron Adapter

Included on "Packaged" models, both are normally mounted and wired but can be supplied wired and loose, if specified.

4. Long Life Stainless Steel Burners

Scientifically designed for quiet operation and maximum efficiency. Burner drawers slide out easily for inspection and service when required.

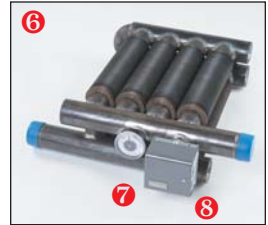


5. Combination Gas Control

Controls include manual valve, two automatic operators and servo pressure regulator to provide dual-seated 100% safety shutoff.

6. Steel Fin-Tube Heat Exchanger

To maximize the heat transfer surface our unique double pass design uses 1/2" fin spirally and continuously welded on 2" OD SA 178A, industrial steel boiler tube.



7. Temperature/Pressure Gauge

Factory installed gauge indicates operating temperature and pressure of the boiler.

8. Dual Temperature Limit Control

Directly immersed sensor maintains boiler water temperature and automatically shuts off gas flow when the set temperature is reached. The dual control feature includes a factory mounted automatic high limit protection (safety shut down).

9. Flame Roll-out Safety Switch

For added protection, the safety device shuts the boiler down.

10. Enclosure Panel

Cosmetically attractive panel protects controls and wiring.



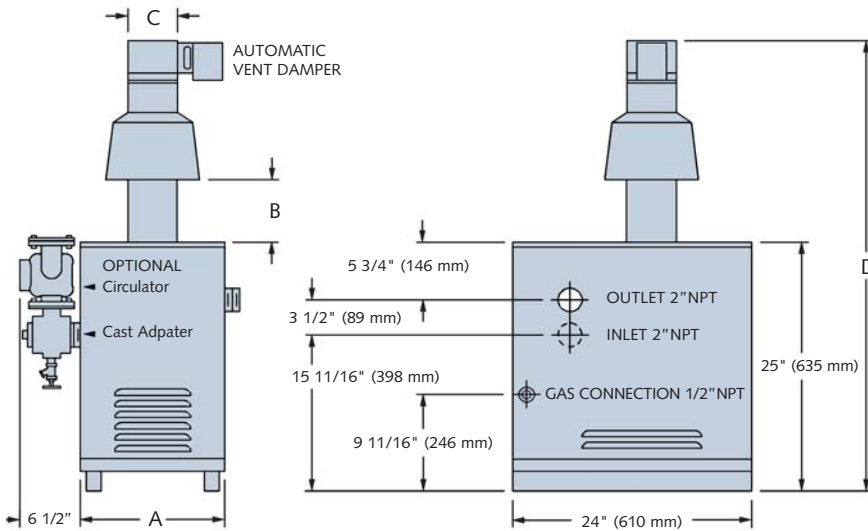
AFUE Certified Ratings for Mini-Gas Series Boilers				
Model Number	Input BTU/hr	Output BTU/hr	AFUE%	AFUE%
			Int Pilot NG/LPG	Continuous Pilot NG/LPG
MG-50	50,000	42,400	84.8	80.4
MG-75	75,000	63,450	84.6	80.4
MG-100	100,000	84,600	84.6	80.9
MG-125	125,000	105,500	84.4	81.4
MG-150	150,000	126,450	84.3	81.6

Designed to Section IV ASME Code
Working Pressure 160 psi max.

Typical MG 100 E PS interior
with Electronic Ignition.

MINI-GAS SERIES BOILERS

DIMENSIONS AND SPECIFICATIONS



Allow 18" minimum
in front for servicing

2" clearance to combustibles
surfaces on both sides and rear

Standard Models Include:

- Zone Control Board
- Stainless Steel Burners
- Combination Gas Valve
- Operating Aquastat/High Limit
- Temperature/Press Gauge
- ASME Safety Relief Valve
- Drain Valve
- Draft Hood
- Blocked Vent Safety Switch
- Flame Roll Out Safety Switch
- Automatic Vent Damper

"PS" Models Include:

- Standard model parts plus:
- Circulator wired & mounted
- Custom Cast Iron Pump Adapter
- Expansion Tank
- Air Purger
- Combination Fill/Pressure Regulating Valve
- Automatic Air Vent

A SMALL FOOTPRINT SAVES VALUABLE SPACE AND FITS ALMOST ANYWHERE, INCLUDING CLOSET INSTALLATIONS.
APPROVED FOR COMBUSTIBLE FLOORS

Model NO.	Natural Gas Intermittent Pilot		Metric Conversion		Dimensions								Weight Lbs.
	BTU/h		kW		A		B		C		D		
	INPUT	OUTPUT	INPUT	OUTPUT	INS	MM	INS	MM	INS	MM	INS	MM	
MG - 50	50,000	42,400	14.7	12.4	11.5	292	6.25	158	4.0	102	43.7	1110	125
MG - 75	75,000	63,450	22.0	18.6	14.5	368	6.25	158	5.0	127	44.0	1118	150
MG - 100	100,000	84,600	29.3	24.8	17.5	445	6.25	158	5.0	127	44.0	1118	175
MG - 125	125,000	105,500	36.6	31.0	20.5	521	7.00	178	6.0	152	45.0	1143	205
MG - 150	150,000	126,450	44.0	37.1	23.5	597	7.00	178	6.0	152	45.0	1143	235

Add 35lbs to Weights for "PS" Packaged Models
Available in Propane - Derate inputs/outputs by 10%
Available with Intermittent Electronic Pilot Ignition
For Btu/h ratings above 2000 feet contact the factory.



The "Super Hot" product improvement program may result in changes to design and/or specifications being made without notice.

ALLIED ENGINEERING COMPANY

DIVISION OF E-Z-RECT MANUFACTURING LTD.

Manufacturers of Gas and Electric Boilers. Tankless Coils. Electric Boosters

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