



# GAS FIRED HYDRONIC HEATING BOILERS

## Mini-Gas®



**THE BEST CHOICE** for Quality and Efficiency

Residential Applications Including In-Floor,  
Radiant Panel, and Baseboard.

Five Standard Models from 50,000 to 150,000 Btu/h

# MINI - GAS SERIES BOILERS



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

## PERFORMANCE

The Mini-Gas series' proven performance is the result of our continuous refinement of design and years of experience in building boilers to ASME standards. Our roll-formed stainless steel burners have been scientifically designed and lab tested to be clean burning and extremely long lasting.

## EFFICIENCY

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

## RELIABILITY

Over 65 years of hydronic heating experience backed by unsurpassed service make the Mini-Gas boiler the reliable choice for applications including in-floor heating, radiant panels, baseboards, snow melt, and indirect hot water heaters. Every boiler is factory tested as part of our stringent quality assurance program.

## WARRANTY PROTECTION

Mini-Gas are manufactured to the highest standards, employing only top quality materials and workmanship. Our proven design features a TEN-YEAR heat exchanger warranty and one year on all parts and controls. Please refer to printed warranty for details. Installation and service manual provided with every boiler.



## USER FRIENDLY DESIGN

**Boiler Controller:** The Integrated Boiler Control provides spark ignition, safety and operating functions in a single and easy to program unit, pre-wired with plug-in connectors for quick installation and service.

**Zone Control System:** Our exclusive Zone Controller handles up to 4 zones with separate plug-ins for zone valves and LED lights to clearly show which zones are being heated. If required, additional boards can be added to increase zone capacity.



# MINI - GAS SERIES BOILERS



MG 75-PS

## FEATURES AND COMPONENTS

### 1. Automatic Vent Damper

Supplied with all boilers, the vent closes when the boiler is not firing preventing heat loss and 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 "PS" models and supplied wired and mounted, or 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.

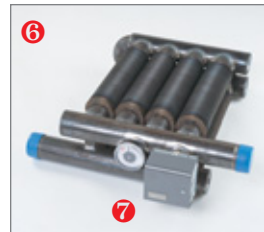


### 5. Combination Gas Control

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

### 6. Steel Fin-Tube Heat Exchanger

Our unique double pass design uses 1/2" fin spirally and continuously welded on 2" OD SA 178A industrial steel boiler tube to maximize heat transfer area.



### 7. Temperature/Pressure Gauge

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

### 8. Integrated Boiler Control

Advanced Honeywell® control with electronic spark ignition, thermal purge and limit rated water temperature control. Simple programming and LED display for quick installation and diagnostics.

### 9. Flame Roll-out Safety Switch

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

### 10. Enclosure Panel

A durable and attractive panel protects controls and wiring.



Typical MG 100 E PS interior with Electronic Ignition.

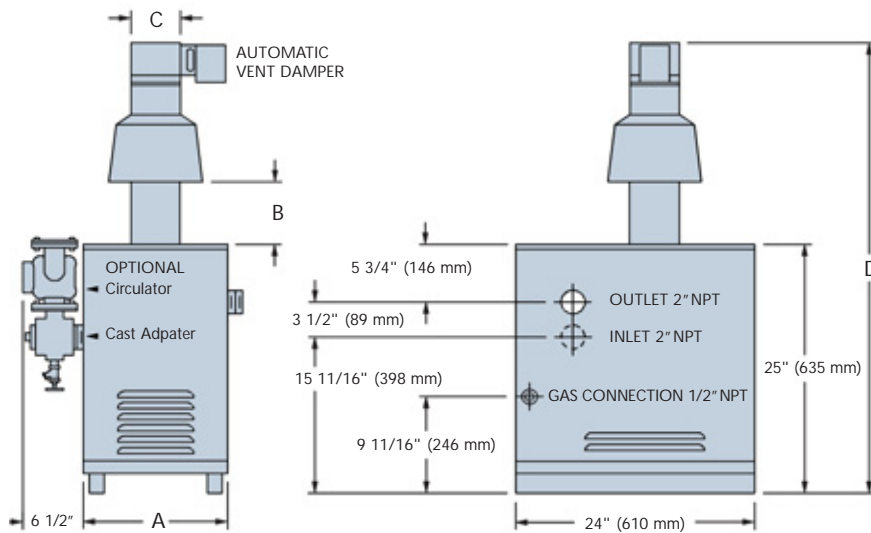
## AFUE Verified Ratings for Mini-Gas Series Boilers

Model	Input	Output	AFUE% NG/LPG
MG 50	50,000	42,500	85%
MG 75	75,000	63,825	85%
MG 100	100,000	85,200	85%
MG 125	125,000	106,250	85%
MG 150	150,000	127,650	85%

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

# MINI - GAS SERIES BOILERS

## DIMENSIONS AND SPECIFICATIONS



### Standard Models Include:

- Integrated Boiler Control
- Zone Control Board
- Stainless Steel Burners
- Combination Gas Valve
- 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

Allow 18" minimum  
in front for servicing

2" clearance to combustible  
surfaces on both sides and rear

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

Model NO.	INPUT		OUTPUT				Dimensions								Shipping Weight* Lbs.
			Natural Gas		Propane		A		B		C		D		
	Btu/h	KW	Btu/h	KW	Btu/h	KW	in	cm	in	cm	in	cm	in	cm	
MG 50	50,000	14.7	42,500	12.6	42,500	12.6	11.5	29.2	6.25	15.8	4.0	10.2	43.7	111.0	125
MG 75	75,000	22.0	63,825	18.8	63,825	19.0	14.5	36.8	6.25	15.8	5.0	12.7	44.0	111.8	150
MG 100	100,000	29.3	85,200	24.9	85,250	25.5	17.5	44.5	6.25	15.8	5.0	12.7	44.0	111.8	175
MG 125	125,000	36.6	106,250	31.0	106,250	31.0	20.5	52.1	7.00	17.8	6.0	15.2	45.0	114.3	205
MG 150	150,000	44.0	127,650	37.2	127,650	38.1	23.5	59.7	7.00	17.9	6.0	15.2	45.0	114.3	235

\*Add 35lbs to Weights for "PS" Packaged Models

Natural Gas (add suffix "N") - Propane (add suffix "P")

Standard with Intermittent Electronic Pilot Ignition (add suffix "E")

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. Indirect Tanks

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