



Condensing High-Efficiency Gas Boiler 550-750 MBH

SUBMITTAL SHEET

JOB NAME _____

LOCATION _____

ARCH. / ENGR. _____

WHOLESALER _____

MECH. CONTRACTOR _____

MODEL NO. _____ GAS TYPE _____

BTU/HR INPUT _____ BTU/HR OUTPUT _____

NOTES

Standard Equipment

Standard Features:

- Sectional Aluminum Block
- 30 PSI ASME Relief Valve Standard
- Stainless Steel Burner with Woven Steel Fiber Mesh
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Venturi Mixing System
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- Temperature and Pressure Gauge
- Outlet Water Temperature Sensor
- Inlet Water Temperature Sensor
- Flue Gas Temperature Sensor
- Outdoor Temperature Sensor
- System Water Temperature Sensor
- 10-Year Heat Exchanger Warranty
- 2-Year Parts Warranty
- Common venting is allowed in an engineered Category II vent system

CSD-1 Compliant:

- Manual Reset LWCO
- Manual Reset High & Low Gas Pressure Switches
- Manual Reset High Limit
- UL 353 Certified Control

Complete Jacket Assembly with:

- Fully Removable Front Jacket
- On/Off Power Switch
- Line Voltage Service Receptacle
- Condensate Trap with Drain Tee Assembly
- Propane Conversion Orifice
- Vent Screens

Optional Equipment/Venting Options:

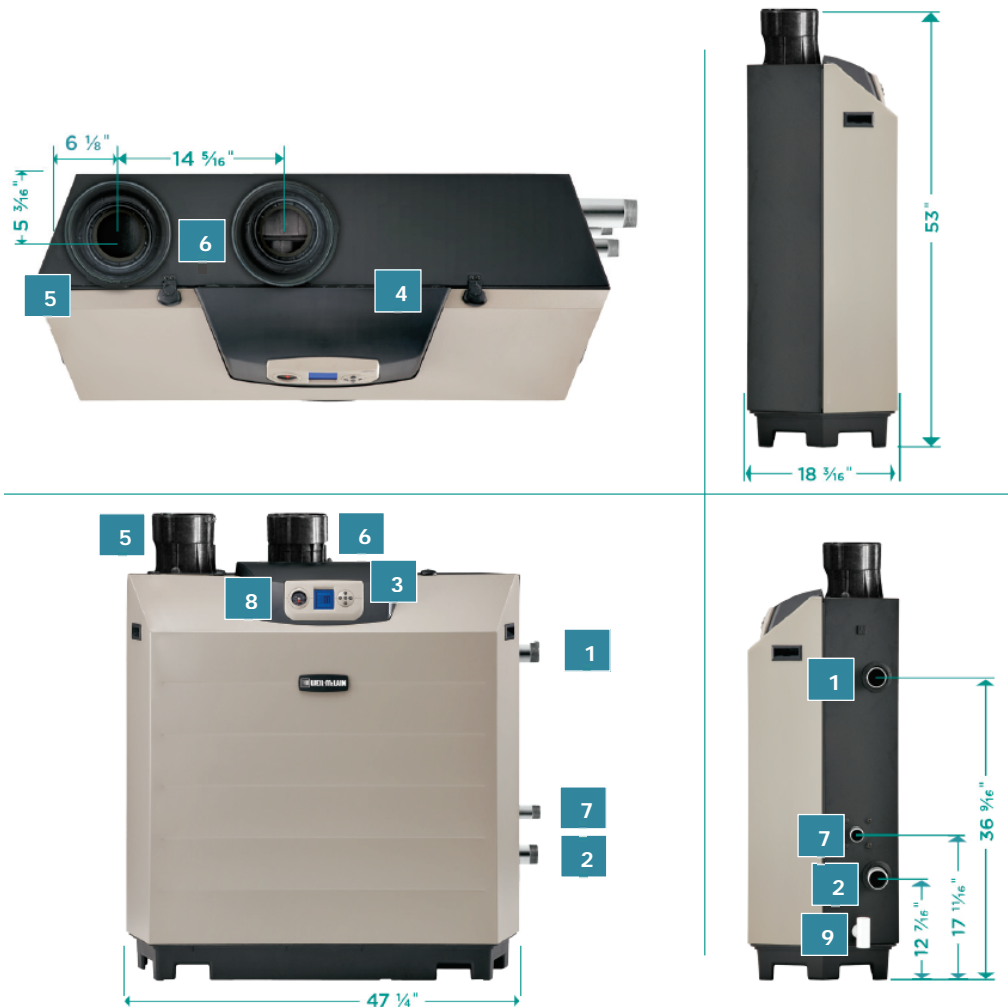
- Pressure Relief Valve 50 PSI
- Pressure Relief Valve 80 PSI
- Intake Air Filter Kit for Direct
- Condensate Neutralizer Kit
- Direct Exhaust – Sidewall
- Direct Exhaust – Vertical
- Direct Vent – Sidewall
- Direct Vent – Vertical

Smart Controls:

- 3.5" LCD screen
- Intuitive, color coded display
- Express set up or fully customizable options
- Modbus® standard, BACnet® optional
- Preset typical heating systems
- 0-10 VDC output signal to control other boilers
- Up to 8 boiler cascading and lead / lag rotation
- Multiple boiler operation with up to 24 circulators
- Zone and priority options, up to 24 zones
- Smart sequencing
- Alarms and advanced diagnostics
- High limit and modulating temperature control
- Outdoor reset and warm weather shutdown
- Boiler schedule and contractor information
- Low water protection
- High temperature limit with manual reset
- Ignition control
- Adjustable priorities

Specifications

1. Supply Connection (2" NPT)
2. Return Connection (2" NPT)
3. Control Panel
4. Electrical Entrance Opening
5. Vent Connection (6" PVC)
6. Air Connection (6" PVC)
7. Gas Connection (1.25" NPT)
8. Pressure/Temperature Gauge
9. Condensate Drain (1" PVC)



AHRI Ratings						Data							Dimensions	
Input Maximum (MBH)	Input Minimum (MBH)	Gross Output (MBH)	Net AHRI (MBH)	Combustion Efficiency (%)	Thermal Efficiency (%)	Vent Size up to 100'	Vent Material	Combustion Air up to 100'	Water Volume (Gal.)	Minimum Gas Pressure	Approx. Shipping Weight (Lbs.)	Approx. Operating Weight (Lbs.)	Supply/Return Tappings	Gas Connection Size
550	110	517	450	94.7	93.9	6"	PVC, CPVC, PP, SS (AL29-4C)	6"	5.5	3.5"	505	478	2" NPT Male	1.25" NPT Male
750	150	702	610	94.0	93.6	*6" or 8"	PVC, CPVC, PP, SS (AL29-4C)	*6" or 8"	6.5	3.5"	550	529	2" NPT Male	1.25" NPT Male

*Model 750 extends a maximum of 30 feet at 6", 100 feet at 8"

Note 1: Relief valve is slipped loose and mounts on supply pipe of supply tee

Note 2: Circulator must be mounted in return piping

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specification without notice. For reference use only – see product manual for detailed information.