

SUGGESTED SPECIFICATIONS



PO BOX 447
NEW BERLINVILLE, PA 19545-0477

Series GM Atmospheric Gas-Fired Boilers

I. GENERAL REQUIREMENTS

- A. The boiler(s) shall be of a low pressure, cast iron, atmospheric gas design and shall be tested and design certified to the current ANSI Z21.13 standard and listed in the International Approval Services Directory of CSA and CGA Certified Appliances and Accessories.
- B. The boiler(s) shall be capable of developing full CSA listed gross output at 100 percent firing rate and shall include the CSA Certification Seal for Appliances.
- C. The boiler(s) shall be listed in the I=B=R Ratings Directory and shall bear the I=B=R Emblem.
- D. The boiler(s) shall be Peerless Model _____ for natural gas with a CSA Gross Output of _____ MBH and a Net I=B=R Water Rating of _____ MBH.
- E. The boiler sections shall be constructed in accordance with the provisions of Section IV of the ASME Boiler and Pressure Vessel Code and shall be stamped with the required ASME symbol. The boiler(s) shall be hydrostatically tested for a maximum allowable working pressure of 100 PSIG.
- F. The boiler(s) shall be factory packaged with jacket, burners, limit control, flame rollout safety shutoff switch, vent safety shutoff switch, 40VA transformer and gas control train mounted and wired.

II. BOILER CONSTRUCTION FEATURES

- A. The boiler sections shall be assembled with steel push nipples to provide a permanent water-tight seal between the sections.
- B. Each section shall be evenly spaced with spacing pads and high temperature sealing rope shall be used to provide a permanent gas-tight seal between the sections.
- C. The boiler(s) shall be furnished with a corrosion resistant aluminized steel flue collector and vertical draft hood. The flue collector shall be sealed to the top of the boiler sections with high temperature sealing rope.
- D. The boiler(s) shall be provided with aluminized steel main burners of a one piece slotted port design. The burners shall be designed to provide quiet ignition and extinction.
- E. The return piping connection shall be located in the front and the supply piping connection at the top/front of the boiler.
- F. All controls shall be located at the front or top/front of the boiler for ease of service and maintenance.
- G. The boiler(s) shall be provided with an insulated steel deluxe jacket with a painted finish.

III. BOILER FOUNDATION

- A. A concrete housekeeping pad shall be provided as recommended by the boiler manufacturer if the boiler room floor is not level or if additional structural support is needed.

IV. BOILER TRIM AND CONTROLS

- A. The boiler(s) shall be provided with a safety relief valve set to relieve at (30) (50) (80) (100) PSIG. The valve shall conform to Section IV of the ASME Boiler and Pressure Vessel Code.
- B. The boiler(s) shall be provided with a combination pressure-temperature gauge to indicate boiler pressure and temperature.
- C. The boiler(s) shall be provided with a high limit temperature control.

Following are optional (specify if required):

- D. The boiler(s) shall be provided with a manual reset high limit temperature control.
- E. The boiler(s) shall be provided with a probe type low water cut-off.

V. IGNITION SYSTEM *(specify standing pilot or intermittent ignition)*

Standing Pilot (GM-05 and 06 only)

- A. The gas control train shall be factory assembled and shall include a combination gas control with manual valve, two automatic operators, pressure regulator and pilot adjustment.
- B. The boiler(s) shall be provided with a constant burning thermally supervised safety pilot with 100% shut-off.
- C. The boiler(s) shall be provided with a motorized vent damper that closes whenever the boiler is not firing to minimize standby losses. The vent damper shall be provided a plug-in wiring harness for ease of installation.
- D. Inlet gas pressure to the gas train under full flow conditions shall be a minimum of 4.8" W.C. for the GM-05 and 5.5" W.C. for the GM-06.
- E. If the inlet gas pressure exceeds 13.5" W.C., a lock-up type gas pressure regulator shall be installed in the main gas supply to the boiler(s) to provide a maximum lock-up gas pressure of 13.5" W.C.

Intermittent Ignition (GM-05 thru 08)

- A. The gas control train shall be factory assembled and shall include a combination gas control with manual valve, two automatic operators, pressure regulator and pilot adjustment. The control shall automatically recycle after a gas or power outage.
- B. The boiler(s) shall be provided with an intermittent burning electronically supervised safety pilot.
- C. The boiler(s) shall be provided with a motorized vent damper that closes whenever the boiler is not firing to minimize standby losses. *(Standard on GM-05 and 06, optional on GM-07 and 08)*. The vent damper shall be provided with a plug-in wiring harness for ease of installation.
- D. Inlet gas pressure to the gas train under full flow conditions shall be a minimum of 4.5" W.C. for the GM-05 and 06, 4.6" W.C. for the GM-07 and 4.9" W.C. for the GM-08.
- E. If the inlet gas pressure exceeds 13.5" W.C., a lock-up type gas pressure regulator shall be installed in the main gas supply to the boiler(s) to provide a maximum lock-up gas pressure of 13.5" W.C.