



# CGs SERIES BOILER

## SUGGESTED SPECIFICATIONS

### I. General Requirements

- A. Furnish and install ( ) low pressure packaged, sealed combustion, power vented, high Efficiency gas fired cast iron sectional boiler(s) that that can use outside air for combustion.
- B. Install boiler-burner unit(s) in compliance with manufacturers installation instructions. All work must be done in a neat and workman like manner.
- C. Weil-McLain qty.( ) CGs boiler(s) size(s) ( ) capable of burning natural gas at 5 to 13" w.c. or propane 11 to 13" w.c. inlet pressure.
1. Packaged boiler (standard).
  2. High grade stainless steel burners for natural or propane gas firing.
  3. Water.
  4. Minimum 84% efficiency.
  5. Induced draft.
  6. Intermittent pilot with electronic module control with diagnostic lights.
- D. Boiler(s) shall have I=B=R Hydronics Institute gross output(s) at 100% firing rate – ( ) MBH per boiler.
- E. Boiler(s) shall be manufactured by ISO 9001 registered company to conform to Section IV of the ASME Boiler and Pressure Vessel Code.
1. Individual sections (and section assembly) to be hydrostatically pressure tested at factory in accordance with ASME requirements.
  2. Maximum allowable working pressure 50 PSIG water and cast as part of section with ASME symbol.
- F. Regulatory Requirements
1. Boiler(s) and controls to comply with applicable regulations.
- G. Submittals
1. Submit shop drawings and product data.
  2. Submittal packet to include boiler (and burner) manufacturer descriptive literature, installation instructions, operating instructions, and maintenance instructions.

### II. Product

- A. Acceptable boiler/burner manufacturer(s) include(s):
1. Weil-McLain only, as specified in Part 1, Paragraph C.
  2. Other manufacturer(s) or other Weil-McLain boiler(s) must comply with specifying engineer's requirements, including:

- a) Full intent of these specifications, and provide complete submittal including literature, wiring diagrams, fuel piping diagrams, and a list of similar installations.
- b) Submittal to be presented to specifying engineer at least seven working days for approval before bid opening. Substitutions are not permitted after contract is awarded.
- c) Energy Management Control System(s) must be tested and approved for installation with specified boiler by boiler manufacturer.

B. Boiler construction

1. Boiler sections

- a) Assembled with tie rods.
- b) Parallel ground sealed with high temperature silicone sealant to assure permanent gas-tight seal.
- c) Sealed water-tight by elastomer sealing rings, not cast iron nipples. Each port opening is machined to accept elastomer sealing rings between sections.
- d) Provided with sufficient tappings to install required controls.

2. Boiler(s)

- a) Provided with cast-in air elimination to separate air from circulating water.
- b) Provided with expansion tank tapping to divert separated air to expansion tank.
- c) Constructed to provide balanced water flow through entire section assembly using single supply and return connections for water. No external headers are necessary.
- d) Designed with a low silhouette to provide maximum headroom.
- e) Elastomer sealing rings are to be used to provide permanent water-tight seal between sections. Unlike cast iron or steel push nipples, the elasticity of the seals fills any gaps caused by misalignment or expansion or contraction.
- f) Shipped with insulated heavy gauge steel jacket(s) with split top for easy servicing and coated with durable powdered paint enamel finish.

C. Boiler foundation(s):

Installer to construct needed support and level concrete foundation(s) where boiler room floor is uneven or will not support the weight of the boiler(s).

D. Boiler trim:

- 1. All electrical components to be of high quality and bear the U.L. label.
  - a) Water boiler(s) controls furnished:
    - 1) High temperature limit setting to be 140 – 240 degrees.
    - 2) Combination pressure-temperature gauge with dial clearly marked and easy to read.
    - 3) ASME certified pressure relief valve, set to relieve at 30 PSIG. Optional relief valves available up to and including maximum allowable pressure. Side outlet discharge type; contractor to pipe outlet to floor drain or near floor, avoiding any area where freezing could occur.

- E. Boiler Manuals:
1. Boiler, gas control and user's information manual.
  2. Venting supplements and instructions.



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