

CLM - Atmospheric Series

“Compliance+” Ultra Low NOx Water or Steam Boilers Air Assisted Gas Fired – Sub 12 PPM

Please delete these paragraphs from the standard CLM Series Boiler Sample Specification:(Form 2137 or 2138)

GAS BURNER AND CONTROL EQUIPMENT

The gas burner assembly shall be an integral part of the boiler. Burners shall be tubular alloy steel atmospheric type for operation with natural draft, requiring no motor or blower. Gas pilot is to be electrically ignited.

The following trim and controls shall be furnished:

1. Pilot cock
2. Electronic pilot ignition
3. Gas pilot safety shutoff valve
4. Honeywell Flame Safeguard RM7890A
5. Main manual gas shutoff valve
6. Electric gas valve operator and auxiliary safety shutoff gas valve (CLM120 & CLM150)
7. Motorized gas valve operator and auxiliary safety shutoff gas valve (CLM180 to CLM300)
8. High gas pressure switch (CLM270 to CLM300)
9. Pilot and main gas pressure regulators

And substitute these paragraphs:

Ultra LOW NOX GAS BURNER AND CONTROL EQUIPMENT *

The Bryan “Compliance +” boiler shall be furnished with a UL listed air assisted Ultra Low NOx – Gas burner suitable for operation with natural gas. Burner shall be complete with integral motor and blower for supplying sufficient combustion air with normal vent conditions.

Burner must be Ultra Low NOx type for reduced emissions service. Burner NOx reduction strategy shall reduce the production of NOx by controlling low excess air operation and reducing flame temperature. Optimum stoichiometry shall be maintained by a fuel metering control with adjustments through the modulating range assuring NOx reduction and high fuel efficiency.

The special metal fiber burners are provided to assure the main flame is combusted properly on the burner head.

The natural gas firing, NOx emissions will not exceed 12 ppm.

All emissions measurements are to be corrected to 3% O₂.

Control panel (16” x 20”) includes Honeywell RMT840L Flame Safe Guard with UV scanner

Supply voltage 240-480/3/60 and includes a control circuit air assisted transformer

Natural gas pressure required 20” min/28” max.

The control will have a 5 to 1 turndown.

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