



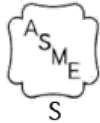
**B-1262**

2005 4WG-200-700-150



# GENERAL DESIGN

## STANDARDS & CERTIFICATIONS



ASME Section I



National Board  
Registered



NFPA-85 Build  
Standard



Hartford Steam  
Boiler Inspected

|                    |                                     |
|--------------------|-------------------------------------|
| MANUFACTURER (OEM) | Cleaver-Brooks                      |
| YEAR               | 2005                                |
| SERIAL NO.         | OL104175                            |
| NATIONAL BOARD NO. | 14070                               |
| CRN NO.            | -                                   |
| MODEL              | 4WG-200-700-150                     |
| ASME CODE SECTION  | Sect I - High Pressure Steam        |
| TYPE               | Scotch                              |
| DESIGN             | Four-Pass Wet Back Firetube         |
| MOUNTING           | Saddles & Skid-Mounted              |
| INTERNAL           | Corrugated Furnace & Straight Tubes |



## CAPACITIES & INPUTS

|                               |   |
|-------------------------------|---|
| OUTPUT SERVICE                | HPS                                     |
| OUTPUT CAPACITY               | 24,150 LB/HR                            |
| HORSEPOWER                    | 700 BHP                                 |
| DESIGN PRESSURE (MAWP)        | 150 PSIG                                |
| OPERATING RANGE               | 75 - 135 PSIG                           |
| HEATING SURFACE               | 3,500 ft <sup>2</sup>                   |
| MAX. FUEL INPUT               | NG: 29,300,000 BTU/HR<br>#2: 209 GAL/HR |
| STANDARD FUELS <sup>1</sup>   | Natural Gas & #2 Fuel Oil               |
| ADDITIONAL FUELS <sup>2</sup> |   |
| INPUT GAS PRESSURE            | MIN: 4.8 PSIG                           |
| TURNDOWN RATIOS               | NG: 8:1<br>#2: 6:1                      |
| EMISSION RATING (NOX)         | NG: 30 PPM<br>#2: 75 PPM                |

<sup>1</sup> Standard Fuels: Boiler comes ready to burn these fuels including fuel train, safety devices, integral wiring and delivery systems.

<sup>2</sup> Additional Fuels: Boiler is capable of running on these fuels but requires modifications to the burner, fuel delivery systems and wiring, at additional cost.





# BURNER AND ELECTRICAL

|                              |                          |
|------------------------------|--------------------------|
| BURNER MANUFACTURER (OEM)    | Cleaver-Brooks           |
| MODEL                        | LNDLG-378P               |
| TYPE                         | Full Modulation          |
| FLUE GAS RECIRCULATION (FGR) | Yes                      |
| ELECTRIC                     | 460V/3PH/60Hz            |
| ATOMIZATION                  | Air                      |
| CONTROL TYPE                 | Single Point Positioning |
| BOILER CONTROL SYSTEM        | -                        |
| BURNER MANAGMENT SYSTEM      | Honeywell RM7800         |
| FLAME SAFEGUARD              | UV Scanner               |
| BLOW MOTOR                   | 75 HP                    |
| BURNER INSTALLED             | Yes                      |
| PILOT TYPE                   | Interrupted Gas          |
| INSTRUMENT AIR               | Oil Atomization          |
| AIR COMPRESSOR               | -                        |





# DIMENSIONS AND WEIGHTS

|                  |                            |
|------------------|----------------------------|
| OVERALL LENGTH   | 24' 8-1/2"                 |
| OVERALL HEIGHT   | 11' 3-5/8"                 |
| OVERALL WIDTH    | 11' 1"                     |
| SHIPPING WEIGHT  | 46,290 LBS                 |
| OPERATING WEIGHT | 74,990 LBS                 |
| BOILER OUTLET    | 8" $\varnothing$ 300# FLG. |
| EXHAUST OUTLET   | 24" $\varnothing$ OD       |

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