



(POSITIONED ON SIDE FOR SHIPPING)

# B-964

2010 Rentec D-Type Watertube

New - Never Installed/Fired



# GENERAL DESIGN

## STANDARDS & CERTIFICATIONS



ASME Section I



National Board  
Registered



NFPA-85 Build  
Standard



Hartford Steam  
Boiler Inspected

|                    |   |
|--------------------|---|
| MANUFACTURER (OEM) | Rentec  |
| YEAR               | 2010  |
| SERIAL NO.         | 2009-54   |
| NATIONAL BOARD NO. | 528   |
| CRN NO.            | -   |
| MODEL              | D-Type  |
| ASME CODE          | Sect I - SH Steam   |
| TYPE               | Watertube   |
| DESIGN             | Superheat Watertube   |
| MOUNTING           | Integral Rail   |
| INTERNAL           | Refractory Free Welded Membrane Wall,<br>Chevron Vane Separation, & Convective<br>Superheater |



# CAPACITIES & INPUTS

|                               |  |
|-------------------------------|--|
| OUTPUT CAPACITY               | 50,000 LB/HR   |
| HORSEPOWER                    | 1,449 BHP  |
| DESIGN PRESSURE (MAWP)        | 650 PSIG   |
| OPERATING RANGE               | 450 - 600 PSIG   |
| HEATING SURFACE               | 3,398 ft <sup>2</sup>                                      |
| MAX. FUEL INPUT               | NG: 63,790,000 BTU/HR<br>#2: 61,260,000 BTU/HR             |
| STANDARD FUELS <sup>1</sup>   | Natural Gas & #2 Fuel Oil                                  |
| ADDITIONAL FUELS <sup>2</sup> |  |
| INPUT GAS PRESSURE            | MIN: 15 PSIG   |
| TURNDOWN RATIOS               | NG: 5:1<br>#2: 5:1   |
| EMISSION RATING (NOX)         | NG: 0.05 LB/MMBTU (~42 PPM)<br>#2: 0.10 LB/MMBTU (~78 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)    | W.N.Best Combustion Equipment |
| MODEL                        | NOxMiser: 40PAC-20            |
| TYPE                         | Full Modulation               |
| FLUE GAS RECIRCULATION (FGR) | Yes                           |
| ELECTRIC                     | 480V/3Ph/60Hz                 |
| ATOMIZATION                  | Steam                         |
| CONTROL TYPE                 | Parallel Positioning          |
| BOILER CONTROL SYSTEM        | Powerhouse BoilerLink®        |
| BURNER MANAGMENT SYSTEM      | Included in BoilerLink®       |
| FLAME SAFEGUARD              | UV Scanner                    |
| BLOW MOTOR                   | 60 HP                         |
| BURNER INSTALLED             | Yes                           |
| PILOT TYPE                   | Natural Gas                   |
| INSTRUMENT AIR               | -                             |
| AIR COMPRESSOR               | Not Required                  |



# DIMENSIONS AND WEIGHTS

|                  |                |
|------------------|----------------|
| OVERALL LENGTH   | 28' 3"         |
| OVERALL HEIGHT   | 16' 0"         |
| OVERALL WIDTH    | 12' 9"         |
| SHIPPING WEIGHT  | 85,500 LBS     |
| OPERATING WEIGHT | 107,000 LBS    |
| BOILER OUTLET    | 6" NPS (BW)    |
| EXHAUST OUTLET   | 104" X 36-1/2" |





# AUXILIARY COMPONENTS

|         |  |
|---------|--|
| ITEM #1 | STACK TRANSITION                             |
| ITEM #2 | E-TECH ECONOMIZER                            |
| ITEM #3 | VERTICAL STACK WITH TEST PORTS               |
| ITEM #4 | MISC PIPING, SUPPORTS, WALKWAYS, AND LADDERS |



ITEM #1



ITEM #2





# AUXILIARY COMPONENTS



ITEM #3



ITEM #4



ITEM #5



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