

 **Fulton**<sup>®</sup>

**ENDURA**<sup>™</sup> 

Condensing Hydronic Boilers  
750,000 - 2,000,000 BTU/HR



The heat transfer innovators.

# ENDURA CONDENSING HYDRONIC BOILERS

## Design Features:

- Available in 0.75 – 2.0 MM BTU/hr input sizes
- Ultra high efficiencies up to 99%
- Condensing, firetube, duplex stainless steel heat exchanger
- Ideal for primary, variable flow applications
- Fully modulating high turndown capabilities
- Color touchscreen control with integrated sequencing capabilities
- AHRI certified efficiency
- Less than 20 ppm NOx emissions
- Full capacity with 4" wc natural gas pressure
- Easily accessible components for commissioning and maintenance
- 1" side clearance between unlimited number of units
- BMS integration through BACnet, LonWorks or Modbus protocols



### WATER SIDE

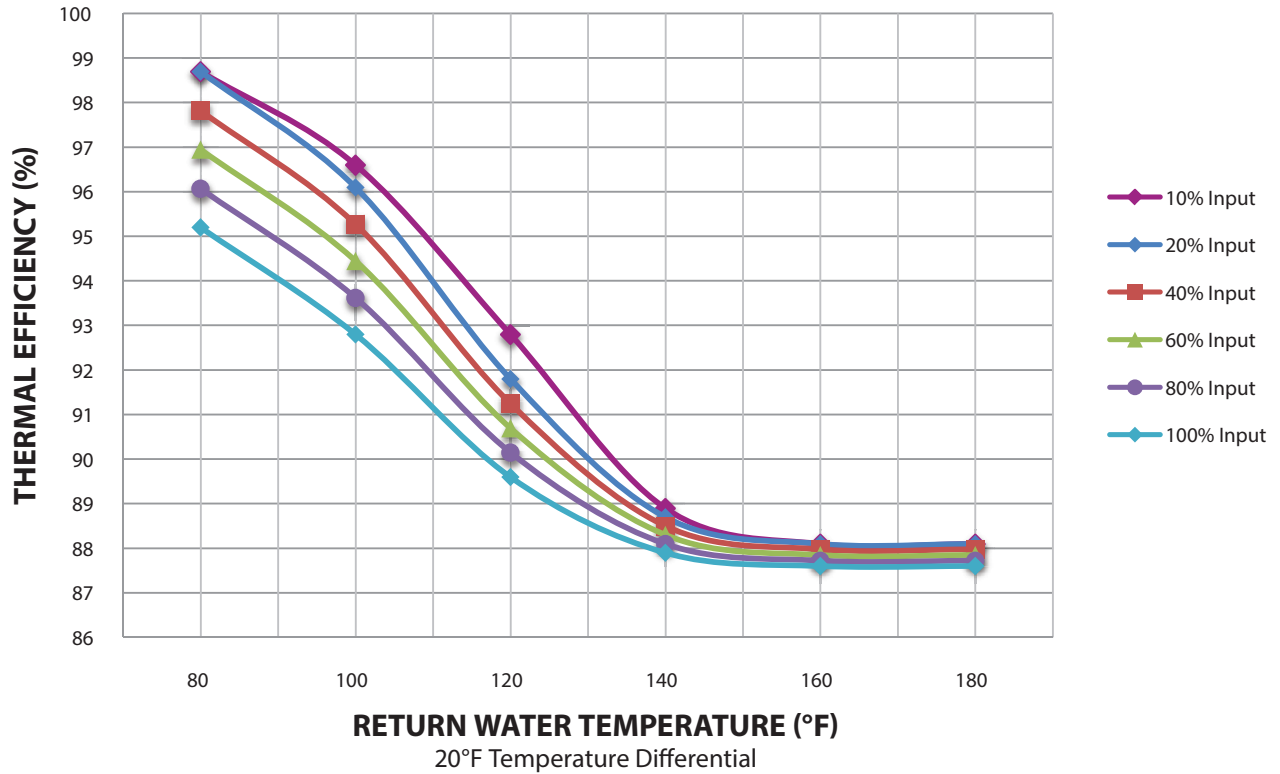
- 1** Return water enters at the bottom of the pressure vessel
- 2** Baffles provide counter-flow to maximize efficiency
- 3** Supply water exits at the top of the pressure vessel

### FIRE SIDE

- A** Fresh air is drawn in
- B** A Venturi pre-mixes air and fuel for delivery to the burner
- C** Three pass fire tube heat exchanger
- D** Flue gases and condensate are collected for disposal

# PERFORMANCE

## Thermal Efficiency vs. Return Water Temperature

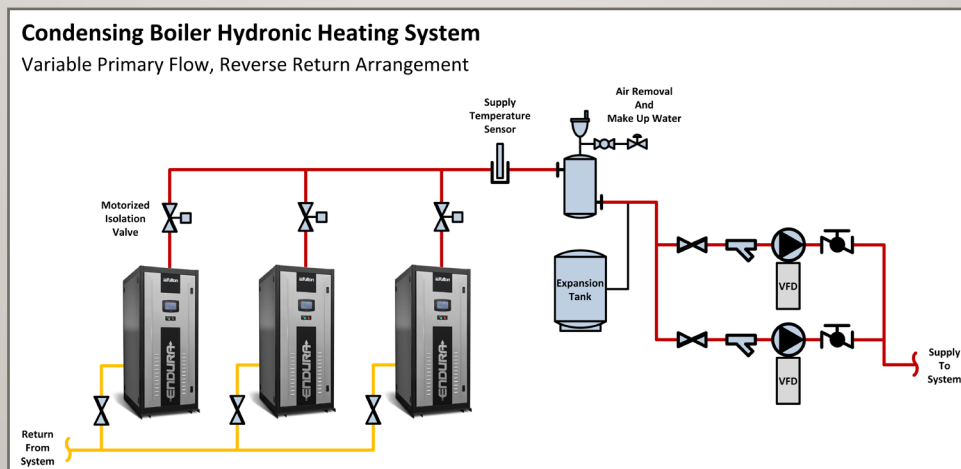


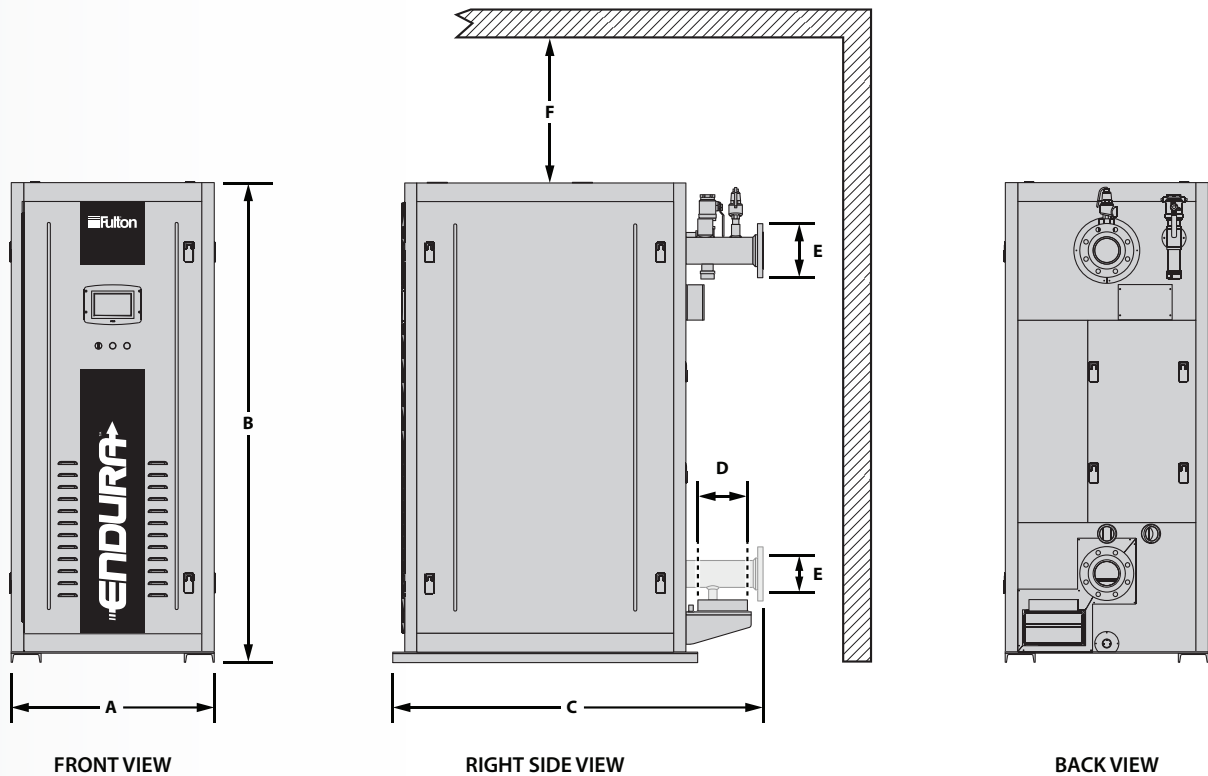
## FLEXIBILITY IN APPLICATIONS

- No minimum return water temperature requirements
- No system flow will not harm the heat exchanger
- Low pressure drop design

## VENTING OPTIONS

- AL 29-4C or 316L SS (UL 1738)
- Polypropylene (UL 1738)
- PVC or CPVC





## SPECIFICATIONS

| MODEL                                  | EDR                 | 750             | 1000            | 1500            | 2000            |
|--|---------------------|-----------------|-----------------|-----------------|-----------------|
| Input                                  | BTU/Hr (MM)         | 0.75            | 1.0             | 1.5             | 2.0             |
|  | kW                  | 219             | 293             | 439             | 586             |
| Fuel Usage @ Rated Capacity (Nat. Gas) | FT3/Hr              | 750             | 1000            | 1500            | 2000            |
|  | M3/Hr               | 21.2            | 28.3            | 42.5            | 56.7            |
| Output at AHRI Test Condition          | BHP                 | 21.3            | 28.5            | 41.9            | 56              |
|  | KCal/h              | 176,712         | 240,313         | 353,424         | 472,240         |
| Electrical                             | 120V, 60Hz, 1 Phase | 20 Amp (10 FLA) | 20 Amp (10 FLA) | 25 Amp (20 FLA) | 25 Amp (20 FLA) |
|  |                     | Water Content   | Gal             | 50              | 50              |
| Dry Weight                             | LBS                 | 1430            | 1430            | 2260            | 2360            |
|  | KG                  | 649             | 649             | 1025            | 1071            |
| Operating Weight                       | LBS                 | 1848            | 1848            | 3128            | 3210            |
|  | KG                  | 838             | 838             | 1419            | 1456            |
| AHRI Thermal Efficiency                |                     | 97.1%           | 95.3%           | 93.5%           | 93.7%           |

**NOTE:** Specifications and dimensions are approximate and for reference purposes only. Fulton reserves the right to change specifications and/or dimensions without notice. Graphics contained in this brochure may not be representative of actual product.

## DIMENSIONS

| MODEL                           | EDR | 750   | 1000  | 1500  | 2000  |
|---------------------------------|-----|-------|-------|-------|-------|
| A. Boiler Width                 | IN  | 28    | 28    | 33.9  | 33.9  |
|                                 | CM  | 71.1  | 71.1  | 86    | 86    |
| B. Overall Boiler Height        | IN  | 67.75 | 67.75 | 80    | 80    |
|                                 | CM  | 172.1 | 172.1 | 203.2 | 203.2 |
| C. Overall Boiler Depth         | IN  | 49.75 | 49.75 | 60.6  | 60.6  |
|                                 | CM  | 126.4 | 126.4 | 153.8 | 153.8 |
| D. Exhaust Outlet Diameter (ID) | IN  | 6     | 6     | 6     | 8     |
|                                 | CM  | 15.2  | 15.2  | 15.2  | 20.3  |
| E. Water Inlet/Outlet Diameter  | IN  | 2     | 2     | 4     | 4     |
|                                 | CM  | 5.08  | 5.08  | 10.2  | 10.2  |
| F. Min. Clearance (top)         | IN  | 18    | 18    | 18    | 18    |
|                                 | CM  | 45.7  | 45.7  | 46    | 46    |
| Air Inlet Diameter (top access) | IN  | 6     | 6     | 8     | 8     |
|                                 | CM  | 15.2  | 15.2  | 20.3  | 20.3  |
| Min. Clearance (sides)          | IN  | 1     | 1     | 1     | 1     |
|                                 | CM  | 2.5   | 2.5   | 2.5   | 2.5   |



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