



THERMAL & REFRIGERATION ENGINEERING CO., LTD



HOT WATER BOILER

HWB SERIES

HOT WATER BOILER

Efficiency, Reliability and Durability

Capacities from 100 to 14000 kBTU/H
Pressure max 100 PSI



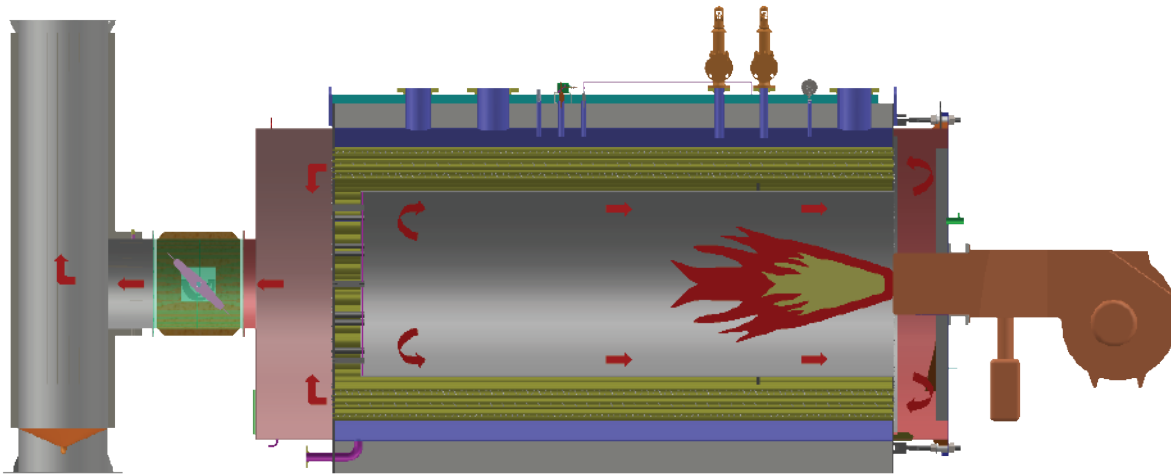
- High quality burner, an environment friendly product
- Compact design
- Easy operation
- Suitable for oil, gas or dual fuel firing with high efficiency level and excellent heat transfer capabilities

SECTION VIEW

Inspected by
LLOYDS, SGS



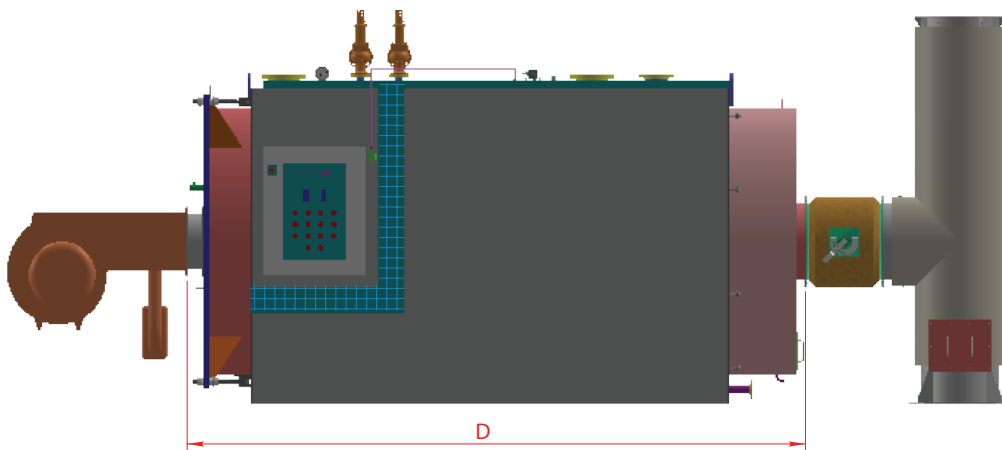
Designed,
constructed and
stamped in
accordance with the
requirements of the
ASME Boiler Codes.



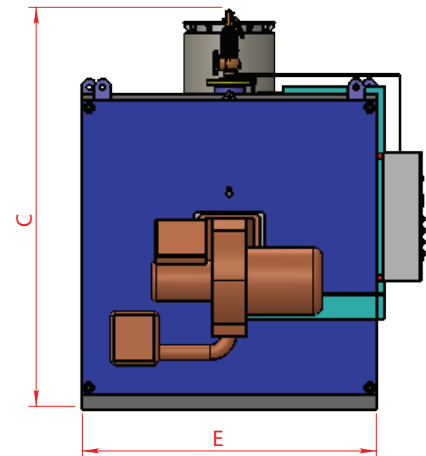
TECHNICAL DATA

| MODEL | Output | Flow rate | Dimensions (Inch) | | | Connections | | |
|---------|--------|-----------|-------------------|-------|------|-------------------|-----------------------|-------------|
| | | | W | L | H | Flow & Return | Safety Vent | Flue OD |
| HWB100 | 340 | 780 | 31,5 | 59,1 | 39,4 | DN50 (2" NPS) | DN20 (3/4" NPS) | DN150 (6") |
| HWB150 | 510 | 1170 | 33,5 | 63,0 | 41,3 | DN65 (2-1/2" NPS) | DN20 (3/4" NPS) | DN180 (7") |
| HWB200 | 680 | 1560 | 37,4 | 66,9 | 43,3 | DN65 (2-1/2" NPS) | DN25 (1" NPS) | DN200 (8") |
| HWB300 | 1020 | 2340 | 39,4 | 70,9 | 47,2 | DN80 (3" NPS) | DN32 (1-1/4" NPS) | DN200 (8") |
| HWB400 | 1360 | 3120 | 41,3 | 76,8 | 49,2 | DN80 (3" NPS) | DN32 (1-1/4" NPS) | DN200 (8") |
| HWB500 | 1710 | 3900 | 43,3 | 80,7 | 51,2 | DN100 (4" NPS) | DN40 (1-1/2" NPS) | DN250 (10") |
| HWB600 | 2050 | 4680 | 45,3 | 82,7 | 53,1 | DN100 (4" NPS) | DN40 (1-1/2" NPS) | DN250 (10") |
| HWB800 | 2720 | 6240 | 47,2 | 88,6 | 55,1 | DN125 (5" NPS) | DN50 (2" NPS) | DN300 (12") |
| HWB1000 | 3410 | 7800 | 49,2 | 94,5 | 57,1 | DN125 (5" NPS) | DN50 (2" NPS) | DN350 (14") |
| HWB1500 | 5120 | 11700 | 59,1 | 126,0 | 72,8 | DN125 (5" NPS) | 2xDN40 (2x1-1/2" NPS) | DN400 (16") |
| HWB2000 | 6820 | 15600 | 68,9 | 148,0 | 80,7 | DN150 (6" NPS) | 2xDN50 (2x2" NPS) | DN450 (18") |
| HWB2500 | 8530 | 19500 | 72,8 | 139,8 | 78,7 | DN150 (6" NPS) | 2xDN50 (2x2" NPS) | DN500 (20") |
| HWB3000 | 10240 | 23400 | 84,6 | 157,5 | 90,6 | DN200 (8" NPS) | 2xDN65 (2x2-1/2" NPS) | DN550 (22") |
| HWB4000 | 13640 | 31200 | 88,6 | 189,0 | 98,4 | DN200 (8" NPS) | 2xDN65 (2x2-1/2" NPS) | DN600 (24") |

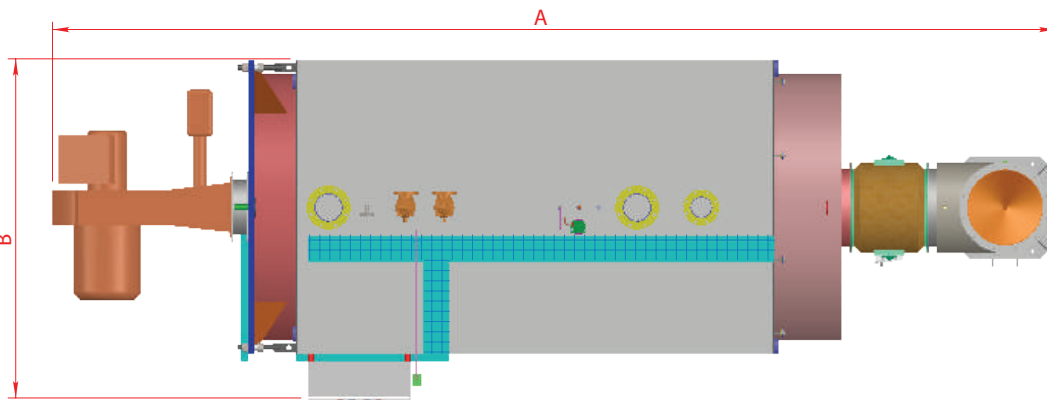
TECHNICAL DRAWINGS



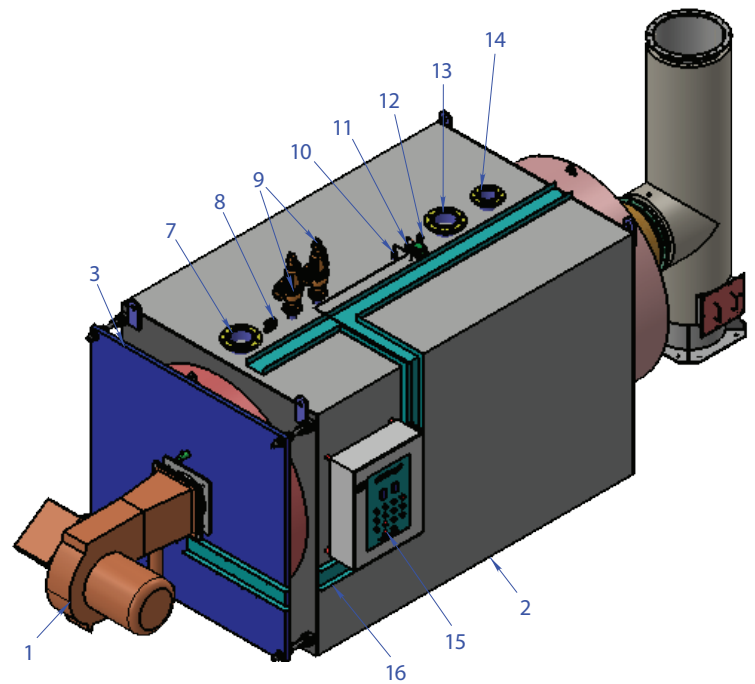
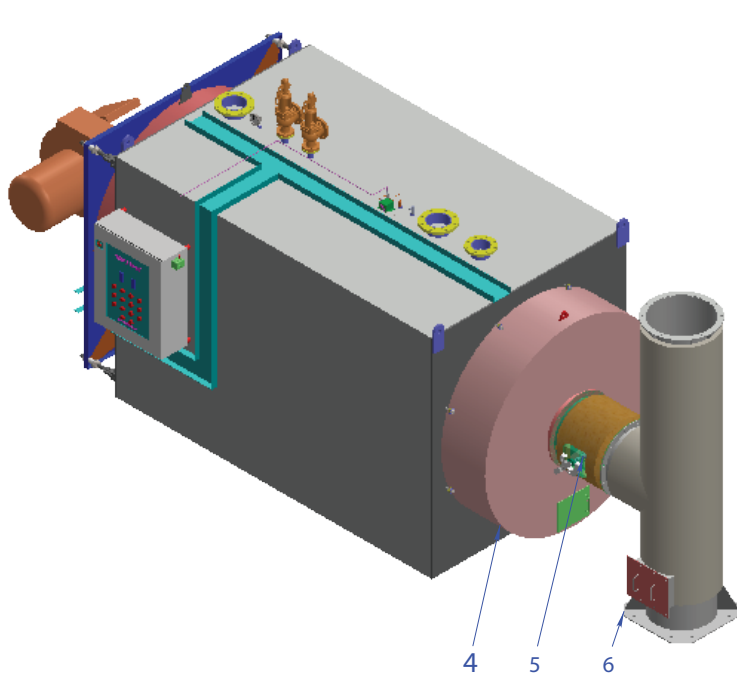
ELEVATION VIEW



FRONT VIEW



TOP VIEW



ANNOTATION:

- | | | | |
|---------------------|-----------------|--------------------------|-------------------|
| 1. Burner | 5. Damper | 9. Safety valve | 13. Water inlet |
| 2. Hot water boiler | 6. Chimney | 10. Pressure transmitter | 14. Air vent |
| 3. Door assembly | 7. Water outlet | 11. High temp switch | 15. Control panel |
| 4. Smoke box | 8. Temp gauge | 12. Pressure switch | 16. Cable tray |

PRODUCT OVERVIEW

- Efficient 3 - Pass Design
- Flexibility - Capable of burning natural gas, fuel oil, digester gas, hydrogen, & various other gaseous fuels
- ASME Code Constructed & Stamped
- Competitively Priced, Easily Maintained, Designed for Efficiency
- Large Furnace Volume for Ultimate Combustion Efficiency
- Low Heat Release
- Factory Insulated - 3" Mineral Wool
- Factory Jacketed & Stainless Steel
- Easy to maintaining and operating
- Ample Waterside Clean - Out Openings
- Fully Automatic Operation
- Wet Back Construction
- Factory Test Fired
- Flame Observation Ports Front & Wetback

These steam boilers provide a large thermal mass and can therefore supply a significant volume of steam draw-off whilst still maintaining a stable operating environment. In essence, these firetube steam boilers are excellent for any industry that needs high quantities of steam at different times, which when the steam is drawn-off, it won't affect the boilers operations (such as foam manufacturing and abattoirs). All units are factory packaged with operating controls, relief valves, burner and fuel train. Installation is made simple in that only service connections are needed to place in operation. Flexible burner systems are available for firing natural gas, LP gas, #2 oil, heavy oil, or combinations. High density 3" mineral wool insulation assures lower radiant heat loss.



CONTACT US