



THERMAL & REFRIGERATION ENGINEERING CO., LTD



VERTICAL WATERTUBE STEAM BOILER

HNW SERIES

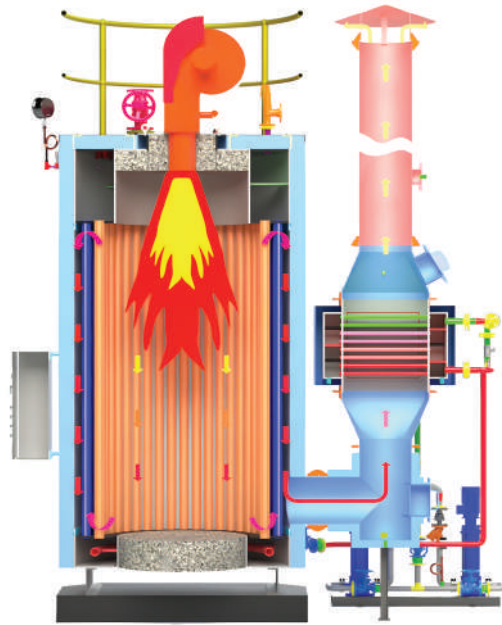
3-PASS DESIGN ALL STEEL WATERTUBE CONSTRUCTION
Efficiency, Reliability and Durability

Capacities from 6 to 150 BHP
201 to 5021 kBTU/H
Pressure max 150 PSI



- High efficiency
- Fast economical steam
- Compact design
- Easy operation
- Suitable for oil, gas firing with high efficiency level and excellent heat transfer

SECTION VIEW



Inspected by
LLOYDS, SGS



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

TECHNICAL DATA

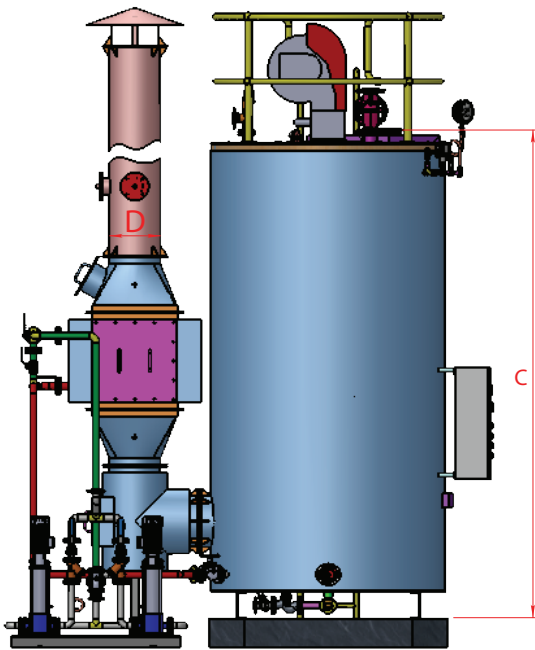
MODEL	HNW 100	HNW 200	HNW 300	HNW 500	HNW 750	HNW 1000	HNW 1500	HNW 2300
FUEL	NG, Light oil, LPG or CNG							
Steam Capacity (BHP)	6	12	20	30	50	60	100	150
Heat Output (kW)	60	120	200	300	500	600	1000	1500
Total Heat Surface Area (SQ.FT)	30	66	88	132	173	229	350	459
Design Pressure (PSI)	150	150	150	150	150	150	150	150
Total Volume (Gal)	52	79	110	158	211	250	317	435
DO Consumption (Gal/H) (*)	1,8	3,7	5,5	9,3	14,2	18,7	28,3	42,4
LPG Consumption (SCF/H) (**)	109	218	327	454	825	825	1651	2724
CNG Consumption (SCF/H) (***)	261	523	784	1308	1981	1981	3963	6538
Chimney Diameter (Inch)	6	8	8	10	12	12	14	16
Overall Width A (Inch)	32,7	33,5	51,2	52,0	62,2	63,8	65,4	65,4
Overall Length B (Inch)	33,5	35,4	47,2	55,1	57,1	61,0	61,4	61,4
Overall Height C (Inch)	61,8	68,9	82,7	94,5	96,5	104,3	112,2	145,7

(*) : Calorific Value 140.000 BTU/Gal

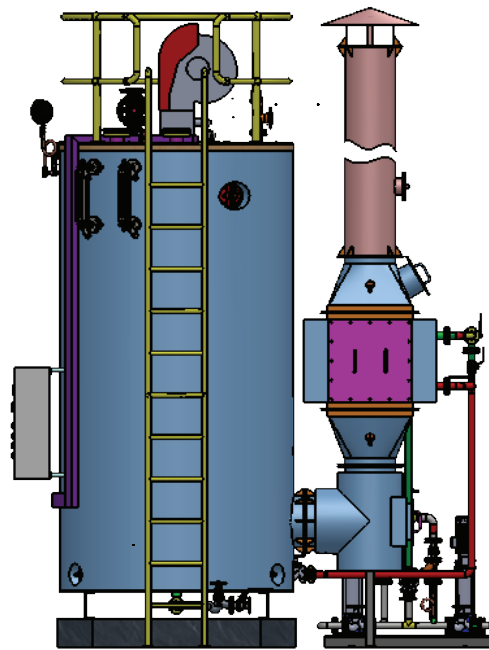
(**): Calorific Value 2.400 BTU/SCF

(***): Calorific Value 1.000 BTU/SCF

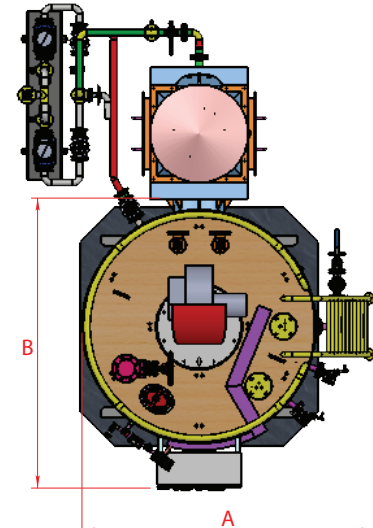
TECHNICAL DRAWINGS



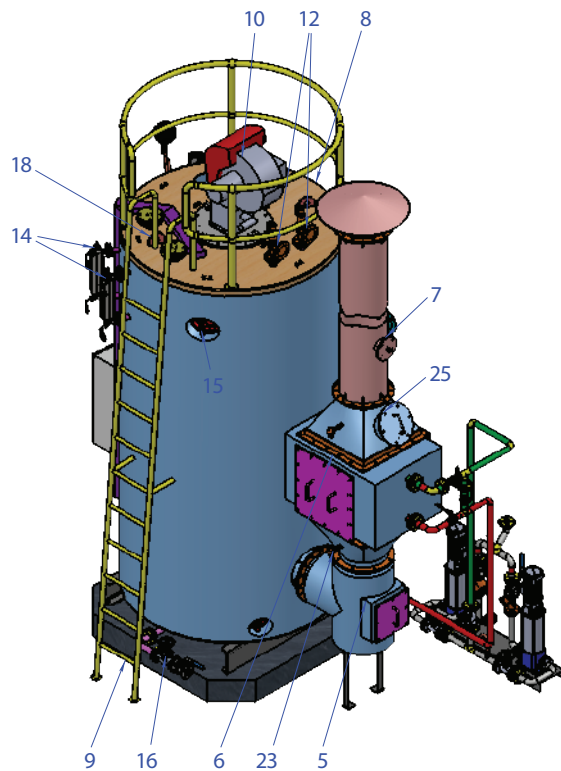
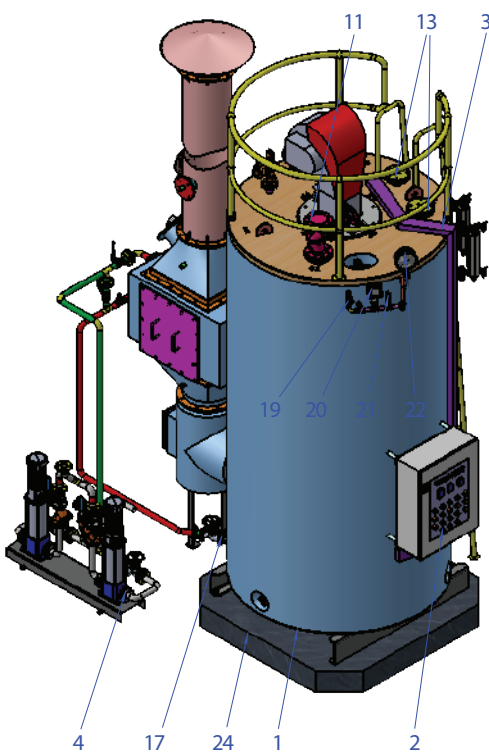
LEFT VIEW



RIGHT VIEW



TOP VIEW



ANNOTATION:

- | | | | |
|----------------------|--------------------|------------------------|--------------------------|
| 1. Boiler body | 7. Chimney | 13. Water level probe | 19. Air vent |
| 2. Control panel | 8. Access platform | 14. Water level gauge | 20. Pressure switch |
| 3. Cable tray | 9. Ladder | 15. Inspection opening | 21. Pressure transmitter |
| 4. Pump set | 10. Burner | 16. Blowdown | 22. Pressure gauge |
| 5. Stack tee | 11. Main steam out | 17. Feedwater inlet | 23. RTD |
| 6. Economizer & duct | 12. Safety valve | 18. Lifting lug | 24. Plinth |
| | | | 25. Inspection opening |

PRODUCT OVERVIEW

- Efficient 3 - Pass Design
- Flexibility - Capable of burning natural gas, fuel oil, digester gas & 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
- Factory Test Fired

The vertical watertube steam boilers are convenient as they are easier to install in areas where space is limited. 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, or combinations. High density 3" mineral wool insulation assures lower radiant heat loss.



CONTACT US

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