



THERMAL & REFRIGERATION ENGINEERING CO., LTD



ZH SERIES

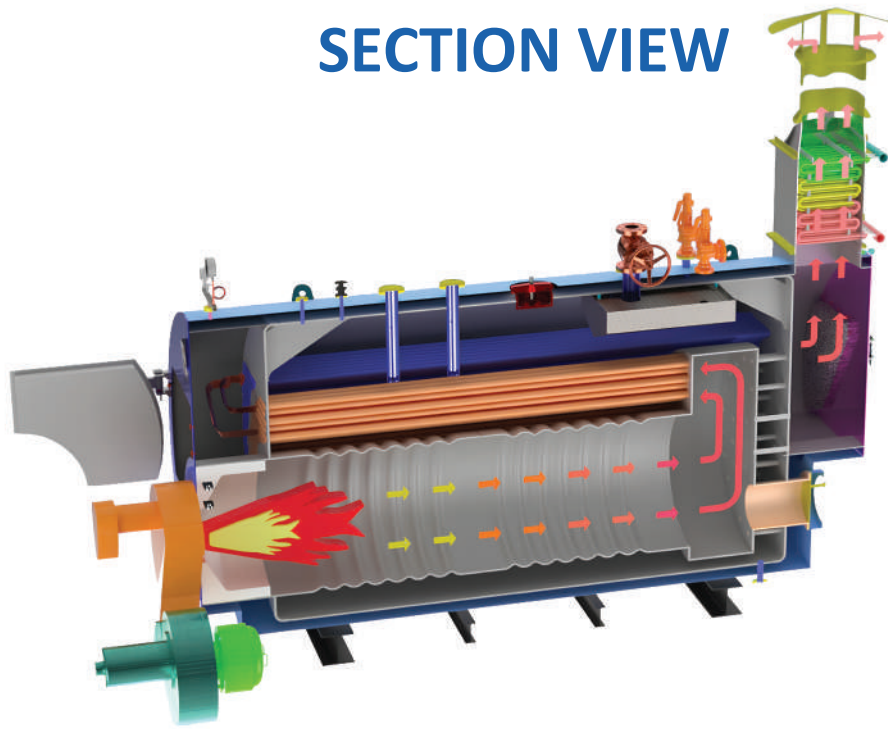
3-PASS HORIZONTAL FIRETUBE STEAM BOILER
Efficiency, Reliability and Durability

Capacities from 290 to 9810 kW
500 to 15000 Kg/h
Pressure max 10 Bar



- High efficiency
- Easy operation
- Fuel : Capable of burning natural gas, fuel oil, digester gas & various other gaseous fuels

SECTION VIEW



Inspected by
LLOYDS, SGS



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

TECHNICAL DATA

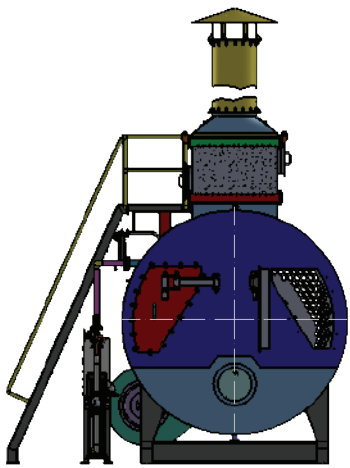
MODEL	HN500 10R	HN750 10R	HN1000 10R	HN1500 10R	HN2000 10R	HN2500 10R	HN3000 10R	HN4000 10R	HN5000 10R	HN6000 10R	HN8000 10R	HN10000 10R	HN15000 10R
FUEL	NG, Heavy oil, Light oil, LPG or CNG												
Steam Capacity (Kg/h)	500	750	1000	1500	2000	2500	3000	4000	5000	6000	8000	10000	15000
Heat Output (kW)	290	490	590	980	1180	1470	1960	2450	2940	3930	4900	5890	9810
Total Heat Surface Area (m ²)	12	15	20	30	40	50	65	80	100	120	160	200	320
Design Pressure (Bar)	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Volume (m ³)	1,5	1,7	2	2,8	3,3	4,0	5,0	6,0	9,0	10,0	11,0	14,0	19,0
DO Consumption (Kg/h) (*)	35	55	70	105	140	180	210	280	350	430	570	700	1060
LPG Consumption (Kg/h) (**)	15	20	30	50	60	80	90	120	150	190	250	310	460
CNG Consumption (m ³ /h) (***)	40	50	70	100	150	190	220	300	370	450	590	740	1110
Chimney Diameter D2 (mm)	265	285	320	340	360	400	425	475	550	630	680	720	750
Boiler Body Diameter D1 (mm)	1200	1250	1350	1500	1550	1700	1800	2050	2170	2400	2450	2699	3190
Overall Length L1 (mm)	2905	3200	3701	4000	4100	4250	4500	5300	5500	5800	6200	6700	8500
Base Length L2 (mm)	2400	2500	2700	2800	3000	3200	3500	4000	4200	4500	4501	5500	6000
Base Height H1 (mm)	1000	1050	1100	1150	1200	1250	1370	1500	1700	1800	1850	1850	2000
Overall Height H2 (mm)	2190	2250	2360	2500	2600	2600	2840	3000	3200	3500	3700	3800	4000
Base Width W1 (mm)	1650	1750	1850	1950	2050	2150	2350	2450	2550	2650	2900	3000	3500
Overall Width W2 (mm)	1100	1150	1200	1350	1400	1440	1600	1700	1750	1800	2000	2200	2700

(*): Calorific Value 10.200 Kcal/kg

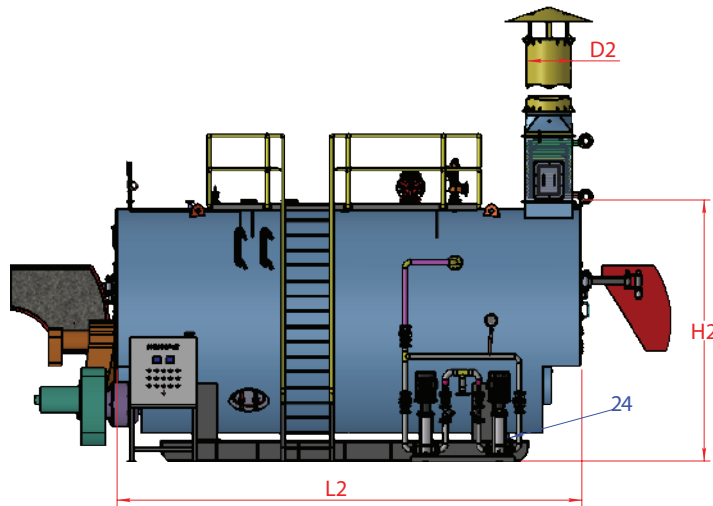
(**): Calorific Value 11.800 Kcal/kg

(***): Calorific Value 8.800 Kcal/m³

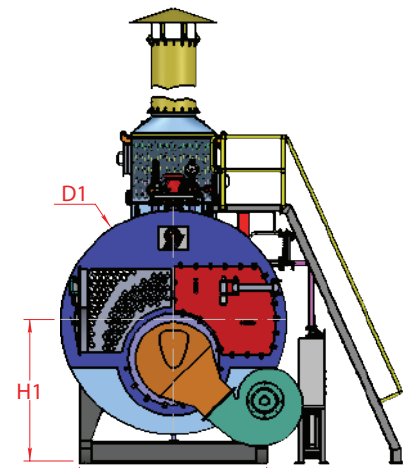
TECHNICAL DRAWINGS



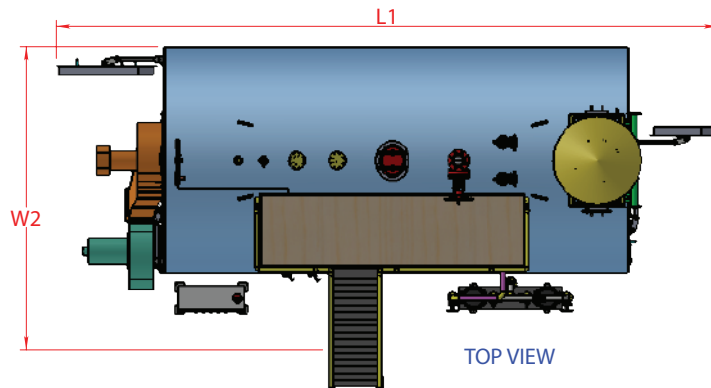
BACK VIEW



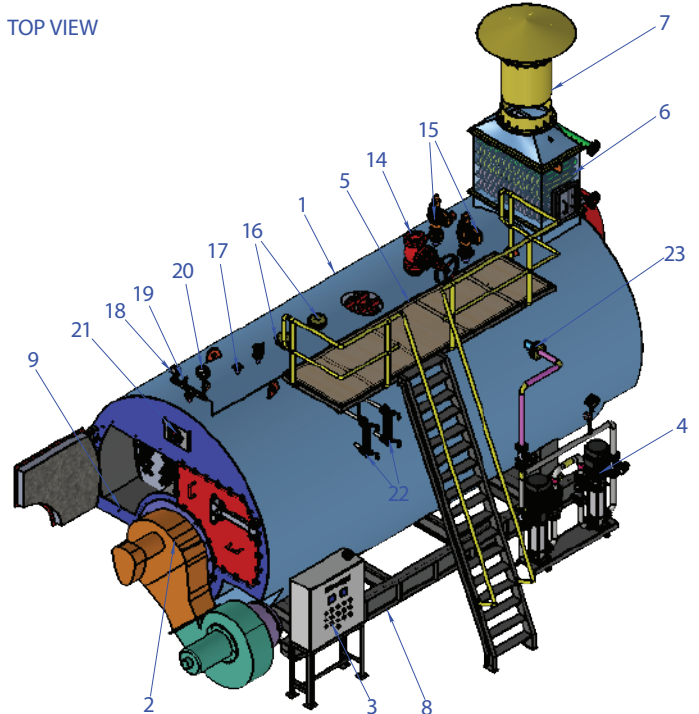
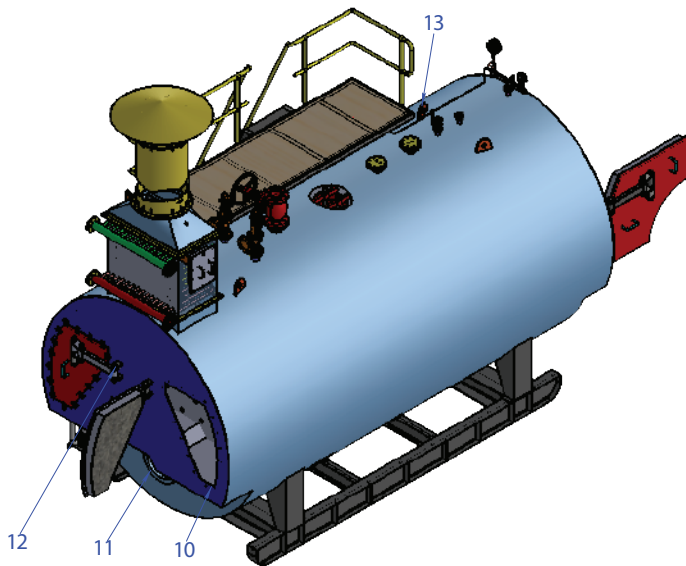
ELEVATION VIEW



FRONT VIEW



TOP VIEW



ANNOTATION:

- | | | | |
|-------------------------|------------------------|-------------------------|--------------------------|
| 1. Boiler body | 7. Chimney | 13. Lifting lug | 19. Pressure transmitter |
| 2. Burner & fan | 8. Support frame | 14. Main steam out | 20. Pressure gauge |
| 3. Control panel | 9. Front door | 15. Safety valve | 21. HN nameplate |
| 4. Pump set | 10. Rear door | 16. Water level control | 22. Water level gauge |
| 5. Platform & staircase | 11. Inspection opening | 17. Stand by | 23. Feedwater inlet |
| 6. Economizer & duct | 12. Hinge | 18. Pressure switch | 24. Blowdown |

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

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