



THERMAL & REFRIGERATION ENGINEERING CO., LTD



HORIZONTAL FIRETUBE STEAM BOILER

ZH SERIES

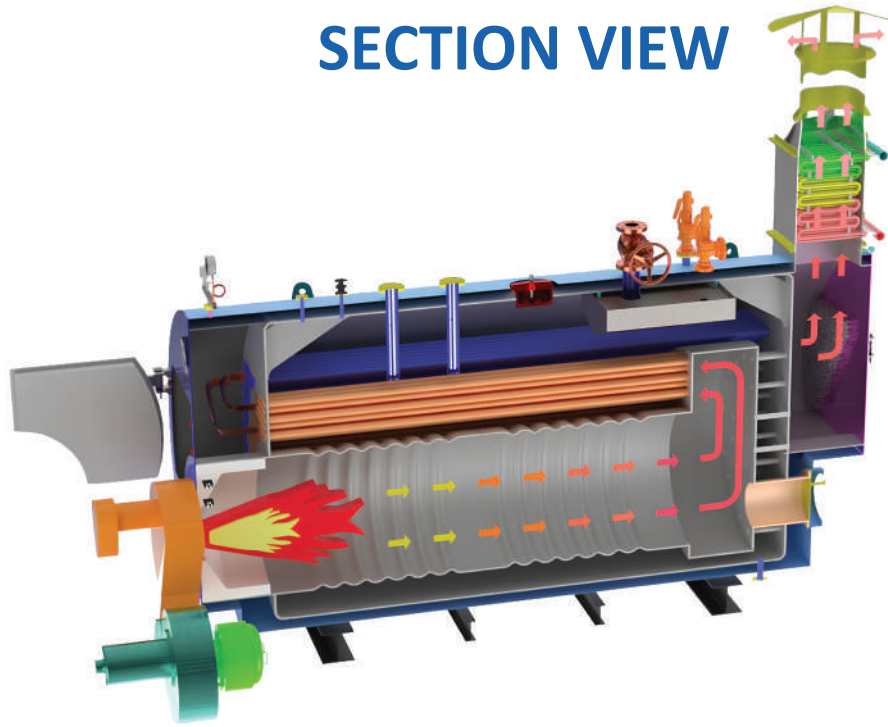
3-PASS HORIZONTAL FIRETUBE STEAM BOILER
Efficiency, Reliability and Durability

Capacities from 30 to 1000 BHP
1005 to 33530 kBTU/H
Pressure max 150 PSI



- 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

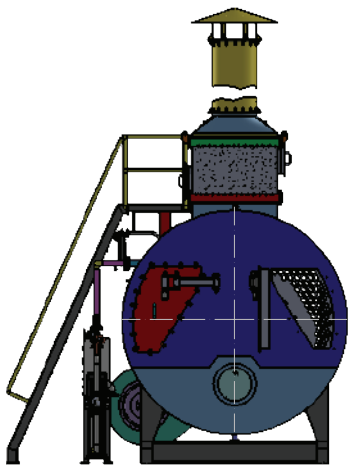
MODEL	HN500 10R	HN750 10R	HN1000 10R	HN1500 10R	HN2000 10R	HN2500 10R	HN3000 10R	HN4000 10R	HN5000 10R	HN6000 10R	HN8000 10R	HN10000 10R	HN15000 10R
FUEL	NG, Heavy oil, Light oil, LPG or CNG												
Steam Capacity (BHP)	30	50	60	100	120	150	200	250	300	400	500	600	1000
Heat Output (kW)	300	500	600	1000	1200	1500	2000	2500	3000	4000	5000	6000	10000
Total Heat Surface Area (SQ.FT)	125	172	231	344	447	543	689	877	1097	1313	1727	2169	3444
Design Pressure (PSI)	150	150	150	150	150	150	150	150	150	150	150	150	150
Total Volume (Gal)	414	458	573	760	877	924	1228	1579	2335	2617	2990	3613	4966
DO Consumption (Gal/H) (*)	9,3	14,2	18,7	28,3	37,4	46,7	56,0	74,7	93,4	113,2	149,4	186,8	280,2
LPG Consumption (SCF/H) (**)	545	826	1090	1651	2179	2724	3269	4359	5449	6604	8718	10897	16346
CNG Consumption (SCF/H) (***)	1308	1981	2615	3963	5231	6538	7846	10461	13077	15850	20922	26153	39230
Chimney Diameter D2 (Inch)	10	12	12	14	14	16	16	20	22	26	28	28	30
Boiler Body Diameter D1 (Inch)	47,2	49,2	53,1	59,1	61,0	67,0	70,9	80,7	85,4	92,5	96,5	106,3	125,6
Overall Length L1 (Inch)	114,2	126,0	145,7	157,5	161,4	167,3	177,2	208,7	216,5	228,3	244,1	263,8	334,6
Base Length L2 (Inch)	94,5	98,4	106,3	110,2	118,1	126,0	137,8	157,5	156,4	177,2	196,9	216,5	236,2
Base Height H1 (Inch)	39,4	41,3	43,3	45,3	47,2	50,0	53,9	59,1	66,9	68,9	72,8	76,8	78,7
Overall Height H2 (Inch)	86,2	88,6	92,9	98,4	102,4	106,3	112,2	118,1	126,0	137,8	145,7	149,6	165,4
Base Width W1 (Inch)	65,0	68,9	72,8	76,8	80,7	86,6	92,5	96,5	100,4	106,3	114,2	118,1	137,8
Overall Width W2 (Inch)	43,3	45,3	47,2	53,1	55,1	57,1	63,0	66,9	69,9	70,9	78,7	86,6	106,3

(*): Calorific Value 140.000 BTU/Gal

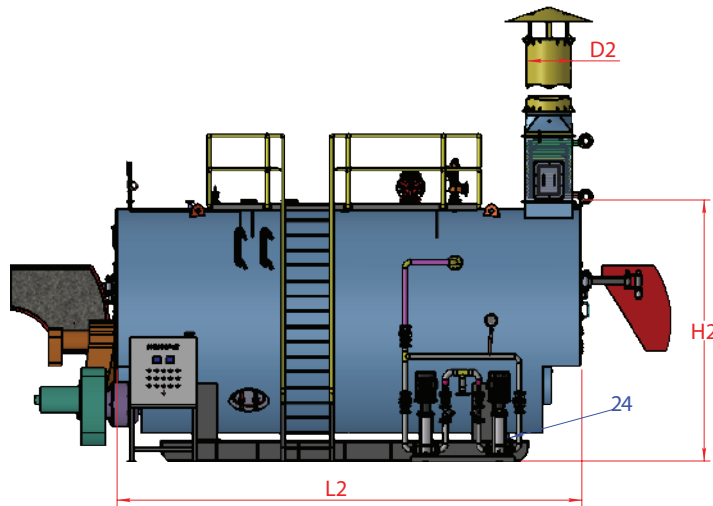
(**): Calorific Value 2.400 BTU/SCF

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

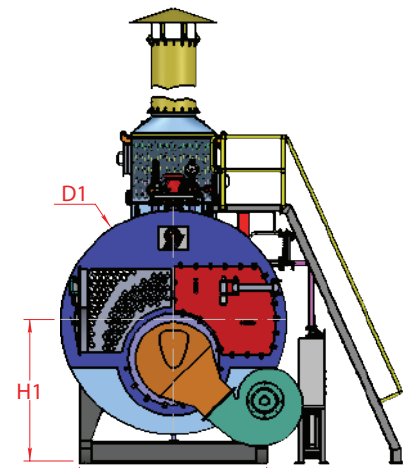
TECHNICAL DRAWINGS



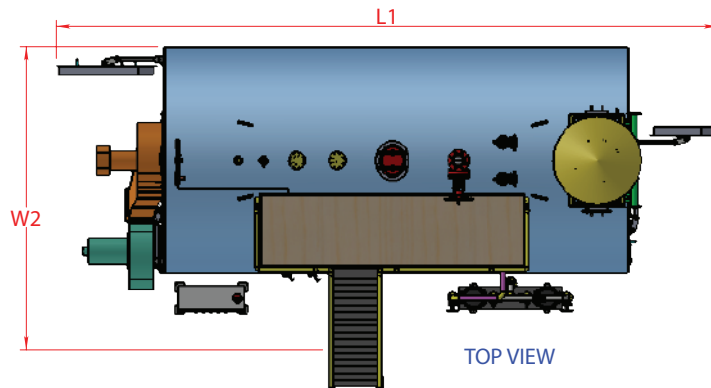
BACK VIEW



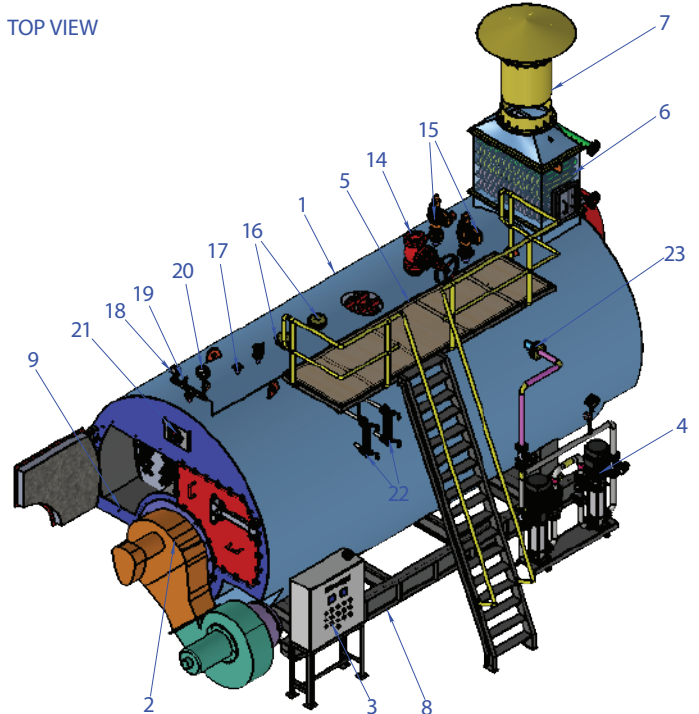
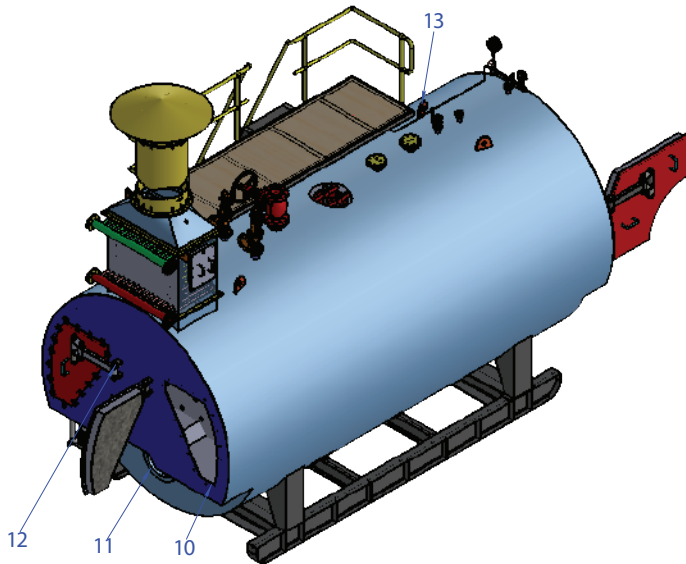
ELEVATION VIEW



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.



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