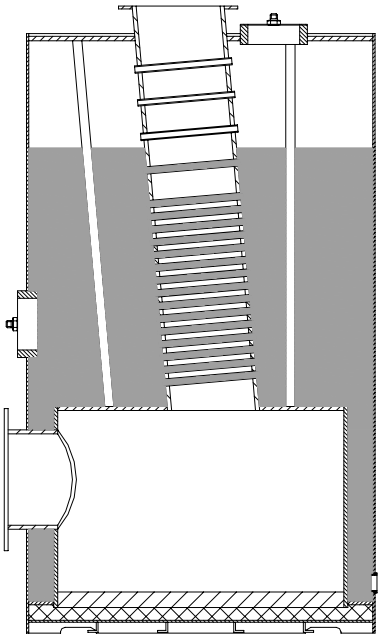
LSH/LHG - The Classic Water/Smoke Tube Oil-fired Boiler Series

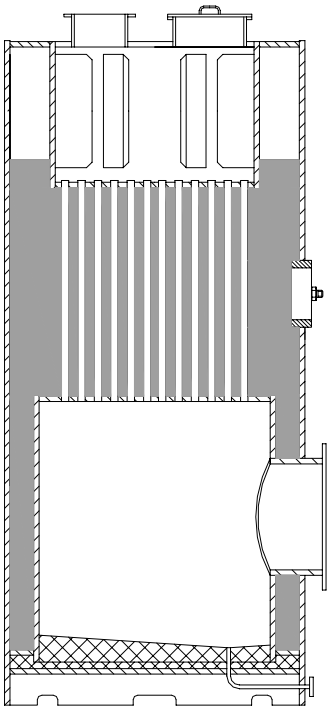
Main Features

The classic **LSH/LHG** series is a vertical, oil-fired auxiliary boiler producing saturated steam applicable for heating of cargo oils, fuel oil and cylinder jacket cooling water for various type of marine diesel engines and as well as heating of domestic water and air-conditioning on board ship.

The boiler features automatic control and various safety protections for automatic operation under normal condition and manual operation in case of emergency or cold starting and shut down the boiler system for a lengthily time.



LSH (inclinded water tube design)



LHG (smoke tube or swirl tube design)

Boiler Construction

The boiler constructs with a cylindrical shell, a furnace and convection part made of cluster of water tubes or smoke/swirl tubes. The tubes are so design for high flue gas velocity in order to minimize soot deposition. The boiler body is assembled by means of welding and when filled water at normal level provides a good interface for separation of water and steam. Manholes on the shell provide good access to the water/steam chamber for cleaning, inspection and maintenance. The furnace bottom is furnished with refractory in order to optimize combustion of heavy fuel oil and drain for waste water after cleaning. Depending on size of the boiler, there are a number of hand-holes arranged conveniently at the circumference of the lower part of the boiler shell for purposes of inspection and cleaning.

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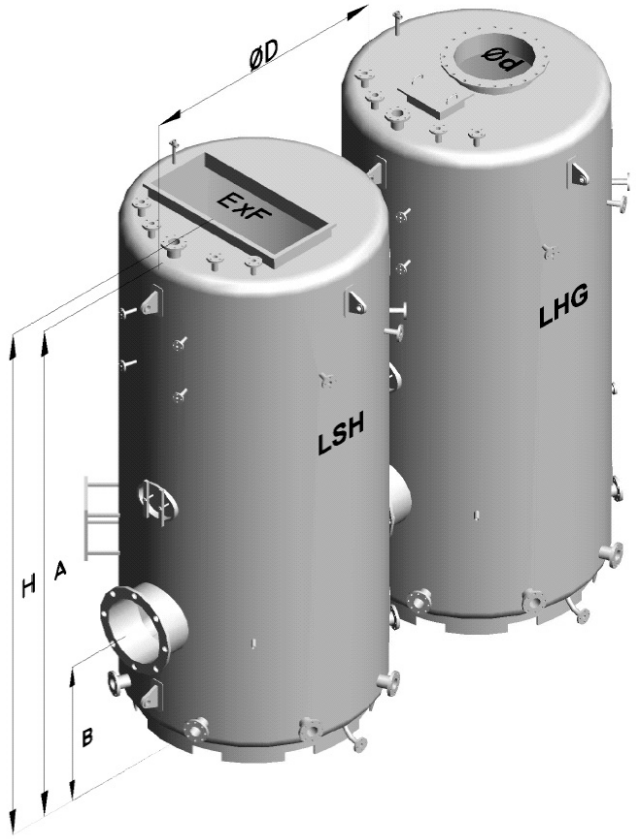
	Steam capacity (kg/h)	Working pressure (MPa)	A (mm)	B (mm)	ØD (mm)	ExF / Ød (mm)	H (mm)	Water volume (m^3)	Net weight (kg)
LSH	1000	0.7	2850	760	∅1500	386x714	3000	2.4	4500
	1500	0.7	2950	760	∅1700	432x866	3100	3.0	5400
	2000	0.7	3200	880	∅1900	482x954	3350	4.2	6700
	2500	0.7	3350	980	∅2000	534x1036	3500	4.7	7700
	3000	0.7	3900	1210	∅2000	534x1110	4050	5.3	8600
	4000	0.7	4400	1250	∅2200	559x1239	4550	7.7	11200
	5000	0.7	4900	1250	∅2200	564x1329	5050	8.15	12200
	6500	0.7	5200	1340	∅2400	688x1329	5350	10.0	14400
LHG	1000	0.7	4295	870	∅1500	∅300	4430	4.3	6060
	1500	0.7	4495	1000	∅1700	∅350	4630	5.6	7450
	2000	0.7	4695	1140	∅1800	∅400	4830	6.3	8250
	2500	0.7	4845	1240	∅1900	∅450	4980	7.0	9220
	3000	0.7	4995	1340	∅2000	∅500	5130	7.8	10170
	4000	0.7	5745	1570	∅2100	∅600	5880	9.8	12680
	5000	0.7	5995	1730	∅2200	∅600	6130	10.8	14170
	`6500	0.7	6145	1840	∅2400	∅700	6280	12.8	16260



Connection size (mm)								
Steam capacity (kg/h)	**1000**	**1500**	**2000**	**2500**	**3000**	**4000**	**5000**	**6500**
Main steam valve	DN65	DN80	DN80	DN100	DN100	DN125	DN125	DN125
Safety valve	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN80
Feed water valve	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50
Blow down/scum valve	DN25	DN25	DN25	DN25	DN25	DN25	DN32	DN32
Drain valve	DN50	DN50	DN50	DN50	DN50	DN50	DN65	DN65

Note:

1. *Boilers are delivered based on a technical specification agreed with the customer who specified technical requirements, scope of delivery and classification.*
2. *Basic design data should include boiler model, type, specifications, steam output, working pressure, fuel oil type, feed water temperature, power supply, etc. should be provided.*
3. *Specific requirements beyond standard on request.*