

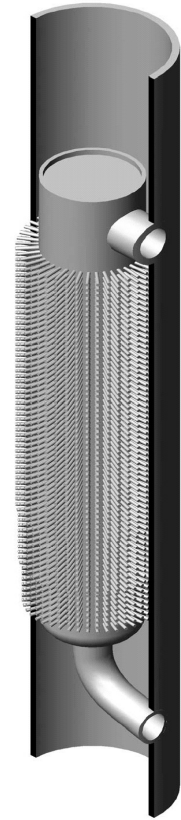
LSK Vertical Oil-fired Boiler Series

LSK is vertical type oil-fired boiler, generating saturated steam by means of burning of fuel oil, applicable for shipboard heating of heavy fuel oil, jacket cooling water, oil tanks, domestic water, air-conditioning, etc; furthermore, the larger series also applies to tankers for cargo hold heating, driving of cargo pumps, heating of tank cleaning sea-water, CO₂ production for IGS, etc.

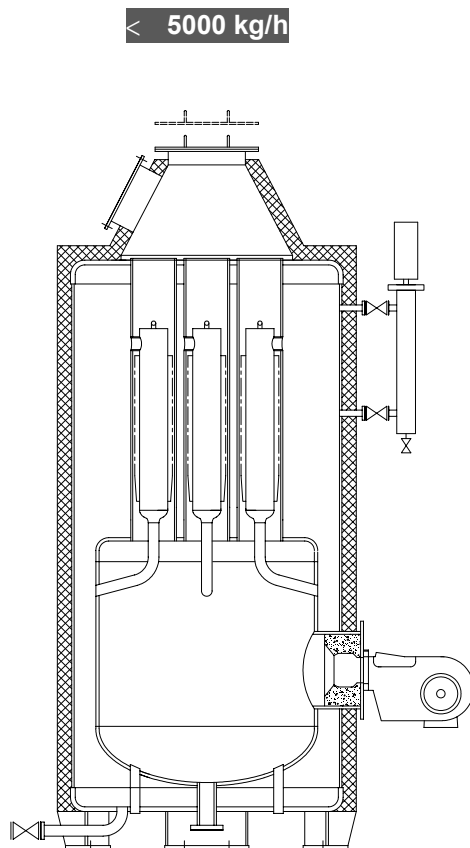
The boilers feature automatic control and fail-safe design for unmanned operation of modern ships. Alternatively, the boilers can be operated manually in case of emergency or cold starting.

Boiler Construction

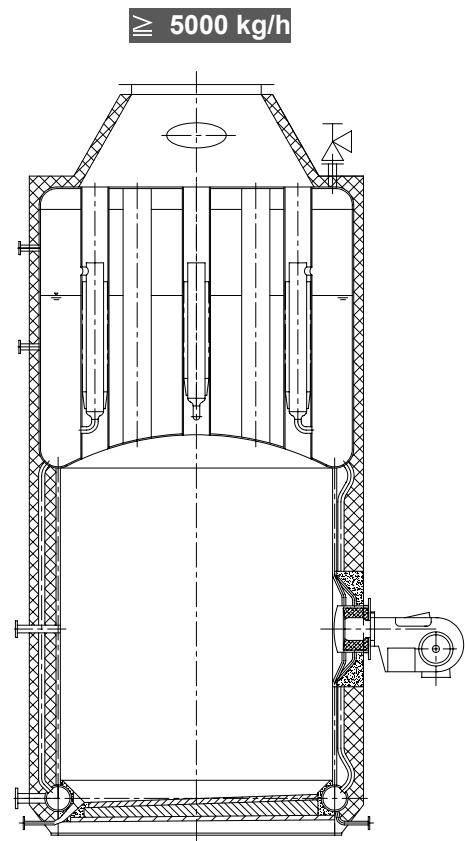
LSK type boiler is assembled 100% by welding, the boiler shell and inner cores forms the water/steam chamber. The inner core includes a furnace in the lower part connected to pin-tube elements on top. The pin-tube element consists of numerous studs to optimize heat exchange efficiency, is enclosed by a sleeve tube welded to the tube plates. Based on steam capacity and working pressure requirements, **LSK** type boiler can be delivered in two versions as below:



Pin-tube element

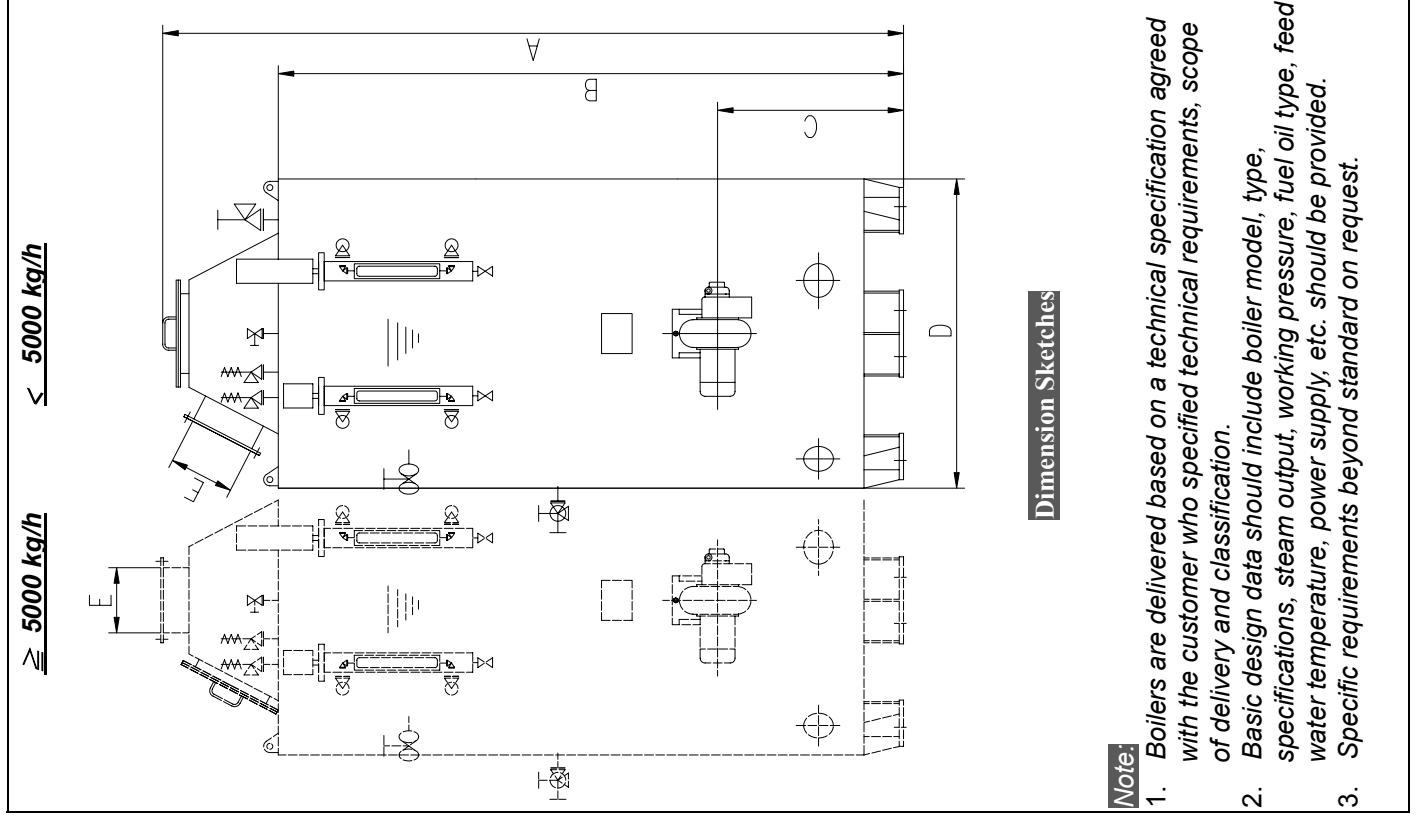


Furnace formed by steel plates, 100% water cooled



Furnace formed by membrane-wall tubes, lined with refractory in the bottom

Boiler Type	Technical data & dimensions (mm)						Connection size (mm)							
	Stream capacity (kg/h)	Working pressure (MPa)	Outside dimensions				Weight (kg)	Water volume (m ³)	Main steam valve	Safety valve	Feed water valve	Blow down/ scum valve	Drain valve	
			A	B	C	D								E
LSK0.15-0.5	150	0.5	2030	1550	300	Ø 960	DN240	1040	0.50	DN32	DN50	DN20	DN20	DN25
LSK0.2-0.7	200	0.7	1800	1597	402	Ø1136	DN200	1470	0.56	DN40	DN50	DN25	DN20	DN25
LSK0.3-0.5	300	0.5	2050	1770	378	Ø 1140	DN250	1650	0.56	DN40	DN50	DN20	DN20	DN25
LSK0.35-0.7	350	0.7	2150	1950	460	Ø 1140	DN400	1800	0.60	DN40	DN50	DN20	DN20	DN25
LSK0.45-0.5	450	0.5	2220	1850	393	Ø 1250	DN320	2100	0.70	DN50	DN50	DN20	DN20	DN25
LSK0.45-0.7	450	0.7	2320	1850	393	Ø 1250	DN280	2100	0.70	DN50	DN50	DN20	DN20	DN25
LSK0.5-0.7	500	0.7	2600	2150	400	Ø 1250	DN200	2270	1.09	DN50	DN50	DN20	DN20	DN25
LSK0.7-0.7	700	0.7	3470	2840	895	Ø 1220	DN300	2823	1.36	DN50	DN50	DN25	DN25	DN50
LSK0.8-0.7	800	0.7	3300	2900	880	Ø 1350	DN300	4100	1.5	DN50	DN50	DN25	DN25	DN50
LSK1-0.7	1000	0.7	3800	3345	900	Ø 1300	DN300	3800	1.7	DN65	DN90	DN25	DN25	DN50
LSK1.2-0.7	1200	0.7	3885	3280	1000	Ø 1480	DN320	4800	2	DN65	DN65	DN32	DN25	DN50
LSK1.5-0.7	1500	0.7	3700	3100	970	Ø 1720	DN380	5300	2.4	DN80	DN90	DN25	DN25	DN50
LSK2-0.7	2000	0.7	4100	3450	1050	Ø 1720	DN380	5800	2.6	DN80	DN90	DN25	DN25	DN50
LSK2.5-0.7	2500	0.7	4200	3550	1120	Ø 1950	DN400	7870	2.8	DN80	DN150	DN25	DN25	DN50
LSK3-0.7	3000	0.7	4680	4075	1230	Ø 1780	DN450	10500	5.1	DN100	DN150	DN25	DN40	DN50
LSK3.5-0.7	3500	0.7	4400	3977	1292	Ø 2380	DN450	11400	5.5	DN125	DN150	DN25	DN50	DN50
LSK4-0.7	4000	0.7	5110	4225	1350	Ø 2400	DN600	11000	7	DN125	DN150	DN25	DN50	DN50
LSK4.5-0.7	4500	0.7	5300	4410	1350	Ø 2500	DN600	11500	7.43	DN125	DN150	DN25	DN50	DN50
LSK5-0.7	5000	0.7	4790	5640	1250	Ø 2700	DN600	14800	5.5	DN125	DN125	DN25	DN50	DN65
LSK5-1.3	5000	1.3	4790	5640	1250	Ø 2700	DN600	15900	5.5	DN125	DN125	DN25	DN50	DN65
LSK6-0.7	6000	0.7	5065	5870	1300	Ø 2700	DN600	18200	6.3	DN125	DN125	DN25	DN50	DN65
LSK6.5-1.3	6500	1.3	5320	6170	1300	Ø 2700	DN600	19500	6.7	DN125	DN125	DN25	DN50	DN65
LSK8-0.7	8000	0.7	5890	6650	1430	Ø 2700	DN600	19300	7.0	DN125	DN125	DN25	DN50	DN65
LSK8-1.3	8000	1.3	5890	6650	1430	Ø 2700	DN600	23000	7.0	DN125	DN125	DN25	DN50	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.

