

PARAT MKS

Marine Top Fired Water Tube Boiler



PARAT MKS: Marine Top Fired Water Tube Boiler

Technical data

- Compact and efficient boiler for small sized vessels
- Designed to meet the demands for low weight, limited space requirements and short warm-up time
- Available with MDO/MGO, gas and dual fuel burner
- Vertical design
- Capacity up to 4 t/h
- Available with DNV, LRS, BV, ABS, etc
- Pre-assembled, delivered as turnkey solution

Due to limited water volume and rapid heating, the boiler is well suited for applications that require a quick production of steam or hot water. The boiler is top fired, supplied with a circular furnace, has three passes and is designed for forced draught. The boiler will work with natural circulation as steam boiler, and forced circulation as hot water boiler. The boiler is constructed from drawings approved by all classification societies and delivered with equipment in accordance with class requirements.

The boiler is delivered as a complete unit, insulated and pre-assembled with all valves and instruments, oil burner and control panel. The burner can be delivered for MDO/MGO, gas or dual fuel.

The control system is designed to enable an unmanned engine room. The system is fully automatic and operates with electronic controllers and electric/pneumatic actuators. The panel is mounted on the side of the boiler. Operation of the boiler control panel is done from the local touch screen. The boiler PLC can be connected to the main control system by standard ethernet/profibus/modbus communication.

Kg steam/h	D (mm) inclusive insulation	H (mm) exclusive burner	Transp. weight (Kg)	Weight full (Kg)	Main steam valve DN	Safety valve DN	Feed water DN	Blow-down DN	Smoke exhaust DN
600	1.270	1.745	1.850	2.350	40	2x25	25	25	250
850	1.300	2.170	2.000	2.600	50	2x25	25	25	250
1.150	1.400	2.275	2.600	3.300	50	2x25	25	2x25	300
1.400	1.400	2.650	2.800	3.550	65	2x25	25	2x25	350
1.700	1.600	2.565	3.400	4.340	65	2x25	25	2x25	400
2.100	1.600	2.950	3.700	4.700	65	2x25	32	2x32	400
2.400	1.720	3.100	4.100	5.400	65	2x25	32	2x32	500
3.000	1.800	3.350	4.500	6.350	80	2x32	32	2x32	500
3.500	1.800	3.650	4.800	6.800	80	2x32	32	2x32	500
4.000	1.900	3.900	5.200	7.500	80	2x32	32	2x32	500

Technical data at an operating pressure of 7 barg and feed water temp 80°C.
We reserve the right to make changes.

