PARAT MVW

Marine Water Tube Boiler

PARAT

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PARAT MVW: Marine Water Tube Boiler

Technical data

- The compact and efficient boiler for medium size vessels.
- PARAT MVW makes the cost efficient boiler plant for chemical tankers, small to medium size crude oil tankers, FPSO's, and cruise liners.
- Designed to meet the demand for low weight, limited space requirements, and short warm-up time.
- Approved by DNV, LRS, BV, ABS, etc
- Available with oil, gas and dual fuel burner
- Vertical design
- Pre-assembled, delivered as turnkey solution

The PARAT water tube boiler is a fully automatic steam boiler. A well dimensioned steam drum make the boiler suitable for evaporating steam from other exhaust gas boilers.The design and performance is a result of solid experience and high technical standards. The boiler is supplied with a circular furnace, has a convection section and is designed for forced draught. The boiler will work with natural circulation.
The boiler meets high equipment standard and is in accordance with requirements from major classification societies like DNV, LRS, GL, etc.

Fittings and equipment are in accordance with class requirements. Our main equipment manufactures supply high standard products. The burner can be supplied for light oil, heavy oil, 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, and all operation of the boiler control panel is done from the local touch screen. Boiler PLC can be connected to the main control system by standard ethernet/profibus/modbus communication.

Insulation material used is rock-wool, jacketed with galvanized plates. Maintenance and inspection can be carried out via suitable hatches mounted on the boiler.The boiler is pre-assembled and delivered as a complete unit.

Capacity kg steam/h	8.000	10.000	12.000	14.000	16.000	18.000	20.000	25.000	30.000
D (mm)	2.600	2.700	2.800	2.900	3.050	3.300	3.450	3.800	4.100
H1 (mm)	5.700	5.850	6.450	7.300	7.950	8.050	8.250	9.100	9.100
H2 (mm)	3.800	3.800	4.250	4.830	5.300	5.400	5.600	6.000	6.000
B1 (mm)	1.450	1.500	1.550	1.600	1.675	1.800	1.875	2.050	2.200
Weight oper. (Tons)	21.0	24.0	28.0	31.0	35.0	41.0	45.0	60.0	70.0
Weight lift (Tons)	15.0	17.0	19.5	21.5	25.0	28.0	34.0	45.0	55.0
Main (DN) Steam Valve	150	200	200	200	200	250	250	250	300
Safety (DN) Valve	2x50	2x50	2x65	2x65	2x65	2x65	2x65	2x80	2x100
Exhaust (DN) Outlet	650	650	700	700	700	800	800	850	950

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

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