

Technical data sheet

Fired marine boiler FMB-VM

SAACKE MARINE SYSTEMS

LNG carriers

Container ships

Bulk carriers

FPSO applications

Passenger vessels

Tankers



Fired Marine Boiler FMB-VM

The FMB-VM is a water tube type steam boiler for medium power range.

The radiation heat transfer is performed in the membrane wall furnace of cylindrical design, whilst the convection heat transfer is carried out through special pin elements / rifled plain smoke tubes. The convection part can be equipped with rifled plain smoke tubes on request up to 16 t/h steam capacity.

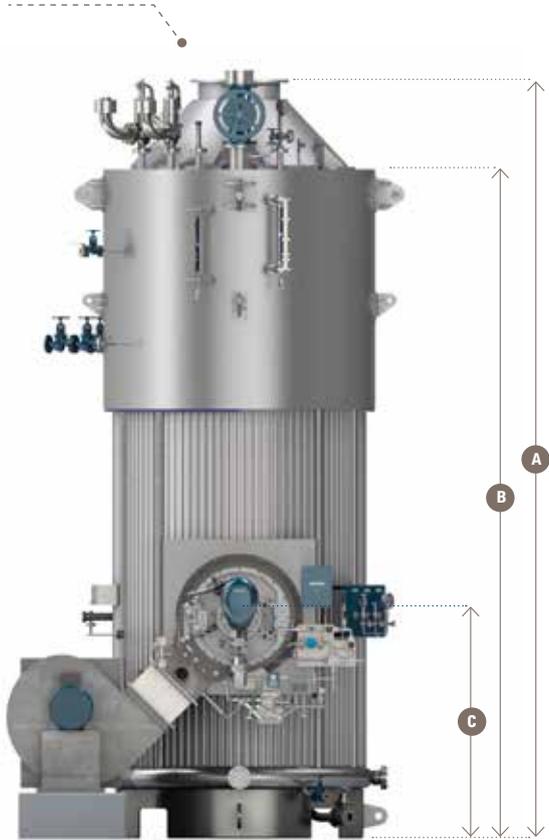
An effective natural water circulation is ensured in all areas of the boiler by means of several downcomer pipes connecting the water / steam drum with the ring-shaped collector at the boiler basement. The specially shaped upper bottom of the combustion chamber not only gives the FMB-VM more stability, but also prevents oscillations caused by ship vibrations and protects this part of the boiler against overheating, as residues in the boiler water are led to the connected downcomers on the outside of the drum before they can settle on the upper bottom of the furnace.

Technical data: FMB-VM

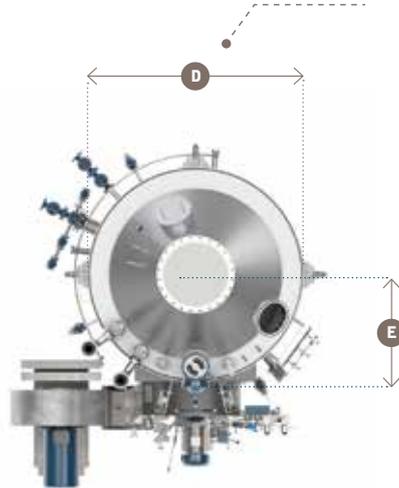
Steam capacity	6-25 t/h
Design pressure	Up to 1.0 MPa

Dimensions FMB-VM

Side view



Plan view



Product information

- ↳ Water tube type steam boiler for medium power range
- ↳ Effective natural water circulation is ensured in all areas of the boiler
- ↳ Increased stability against ship vibrations and protection against partial overheating
- ↳ For liquid and gaseous fuels

Boiler data

Steam capacity	Design pressure	A	B	C	D*	E	Dry weight**	Water content at NWL
t/h	MPa	mm	mm	mm	mm	mm	kg	m ³
6	1.0	5,300	4,620	1,570	2,500	1,470	12,550	5.4
8	1.0	6,000	5,320	1,820	2,500	1,470	14,900	5.3
10	1.0	6,700	6,020	2,020	2,500	1,470	15,950	5.3
12	1.0	6,500	5,720	2,020	2,900	1,670	19,000	8.1
14	1.0	7,000	6,220	2,120	2,900	1,670	21,400	8.0
16	1.0	7,600	6,720	2,220	2,900	1,670	22,700	7.9
20	1.0	7,300	6,420	2,220	3,300	1,870	26,700	10.2
25	1.0	8,200	7,320	2,320	3,300	1,870	29,650	10.8

Data subject to plant conception and class rules. Dimension valid for fuel oil firing and may differ in case of gas firing.

* including insulation ** including insulation, refractory, valves and burner

