

Technical data sheet

Fired marine boiler/water heater FMB/FMW-VD

SAACKE MARINE SYSTEMS

LNG carriers

Dry cargo vessels

FPSO applications

Passenger vessels

Tankers



Fired Marine Boiler/Water Heater FMB/FMW-VD

The top fired D-type boiler/water heater FMB/FMW-VD resembles a classic membrane wall furnace design, which is well proven for marine applications. The radiation heat transfer is performed in the furnace. The convection part is built up with special pin tubes, each with a high heat transfer capacity. Due to the extended heating surface a very high efficiency is given under part-load conditions. The convection part can be cleaned by means of steam soot blowers. The water tube boiler has an effective natural water circulation ensured in all areas of the boiler by means of the external downcomers.

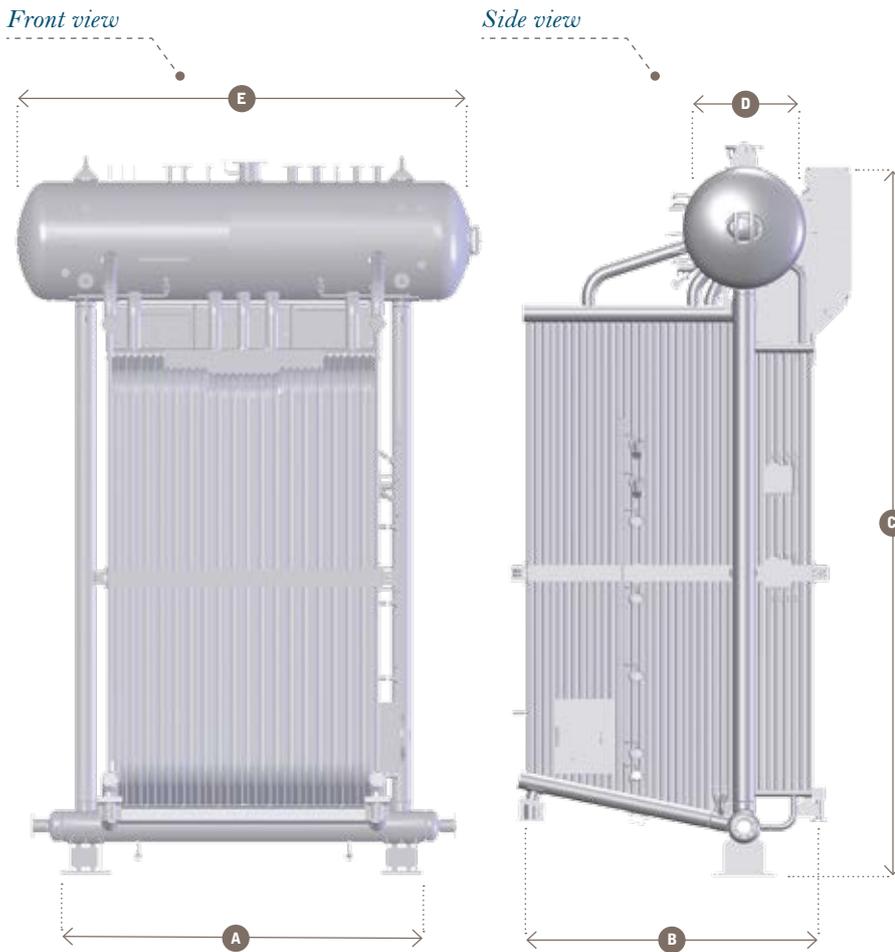
The FMB-VD boiler is basically designed for the production of saturated steam, but can also be equipped with superheaters. Dependent upon operational requirements, the amount of circulated water in the FMW-VD could result in the flow through the boiler being split by utilizing two bottom headers.

Technical data: FMB/FMW-VD

Steam capacity	On request
Design pressure	Up to 2.5 MPa*

* can be adapted to customers request

Dimensions FMB/FMW-VD



Product information

- ↳ Classic membrane wall furnace design
- ↳ Well proven for marine applications
- ↳ Very high efficiency, also under part-load conditions
- ↳ Effective natural water circulation
- ↳ For liquid and gaseous fuels

Boiler data for FMB-VD (boiler data for FMW-VD on request)

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
30	1.8	4,920	3,920	8,200	1,600	5,500	30,300	8.1
40	1.8	5,280	4,220	8,950	1,700	5,900	36,900	10.0
50	1.8	5,640	4,520	9,700	1,800	6,300	44,800	12.2
60	1.8	6,000	4,820	10,450	1,900	6,800	54,200	14.9
70	1.8	6,360	5,000	11,000	2,000	7,200	60,400	17.5
80	1.8	6,720	5,180	11,400	2,000	7,600	66,600	19.0
90	1.8	7,080	5,480	11,750	2,100	8,000	75,700	22.0
100	1.8	7,440	5,660	11,900	2,100	8,350	81,000	23.4
110	1.8	7,800	5,840	12,050	2,100	8,700	86,200	25.3

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

