

## Technical data sheet

Fired marine boiler FMB-VS

**SAACKE** MARINE SYSTEMS

LNG carriers

Dry cargo vessels

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Tankers



# Fired Marine Boiler FMB-VS

The FMB-VS is a vertical side fired boiler.

The heat transfer is performed through the plate furnace and a number of rifled plain smoke tubes. The convection part can be equipped with pin tubes on request.

The special spherical shape of the furnace top plate gives an increased stability against ship vibrations and protects this part of the boiler against partial overheating, because residues in the boiler water are led to the boiler bottom before they can accumulate on the furnace top plate.

## Technical data: FMB-VS

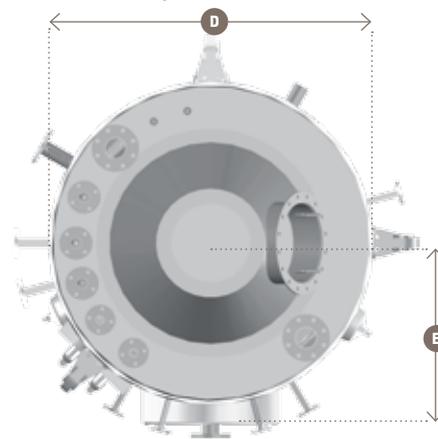
|                 |               |
|-----------------|---------------|
| Steam capacity  | Up to 5 t/h   |
| Design pressure | Up to 1.0 MPa |

## Dimensions FMB-VS

Side view



Plan view



### Product information

- ↳ Vertical side fired boiler
- ↳ Heat transfer through the plate furnace and a number of rifled plain smoke tubes
- ↳ 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 <sup>3</sup>       |
| 1.0            | 1.0             | 4,460 | 3,760 | 930   | 1,560 | 760   | 5,550        | 2.7                  |
| 1.2            | 1.0             | 4,580 | 3,880 | 970   | 1,560 | 760   | 5,600        | 2.7                  |
| 1.5            | 1.0             | 4,890 | 4,190 | 1,090 | 1,560 | 760   | 6,050        | 2.8                  |
| 1.6            | 1.0             | 4,910 | 4,210 | 1,090 | 1,560 | 760   | 6,300        | 2.8                  |
| 2.0            | 1.0             | 4,910 | 4,210 | 1,090 | 1,760 | 860   | 7,100        | 3.6                  |
| 2.5            | 1.0             | 5,230 | 4,530 | 1,210 | 1,760 | 860   | 7,750        | 3.7                  |
| 3.0            | 1.0             | 5,150 | 4,450 | 1,170 | 1,960 | 960   | 9,200        | 4.6                  |
| 3.5            | 1.0             | 5,400 | 4,700 | 1,250 | 1,960 | 960   | 9,500        | 4.8                  |
| 4.0            | 1.0             | 5,110 | 4,410 | 1,130 | 2,260 | 1,110 | 10,900       | 6.4                  |
| 5.0            | 1.0             | 5,520 | 4,820 | 1,290 | 2,260 | 1,110 | 11,800       | 6.5                  |

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

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