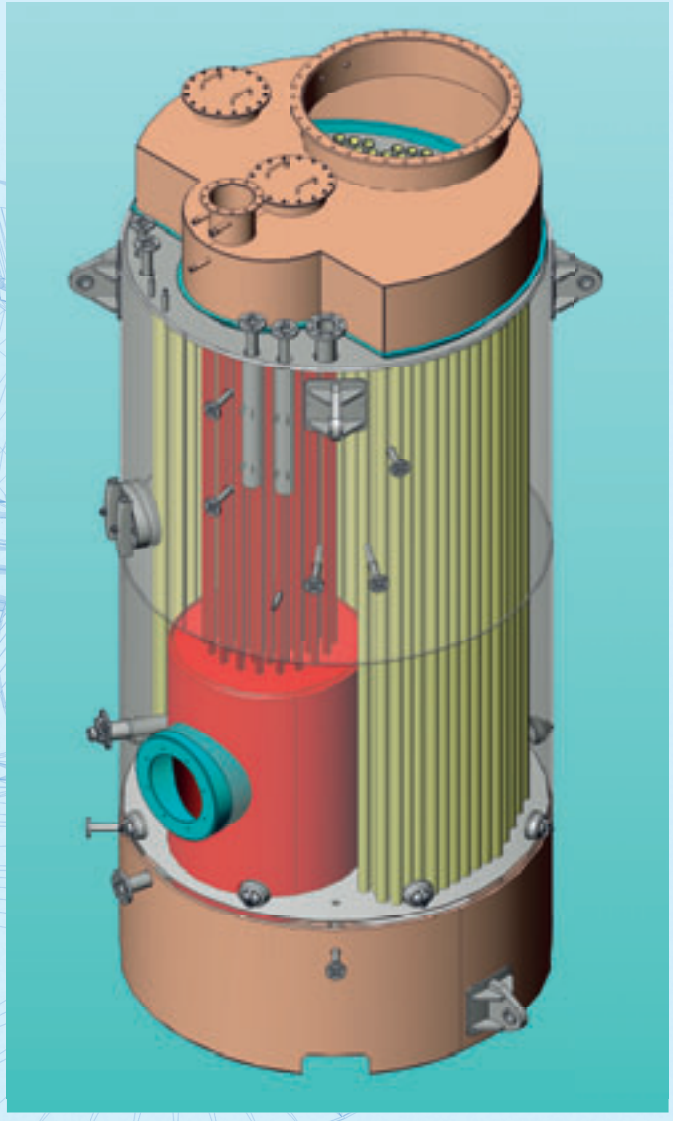
Composite Marine Boiler

CMB-VS

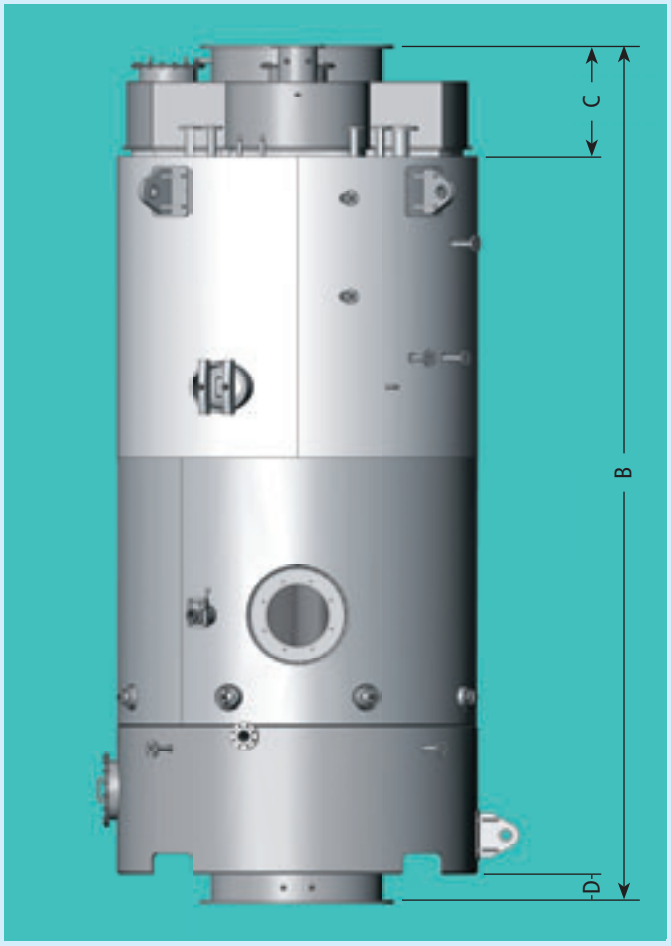


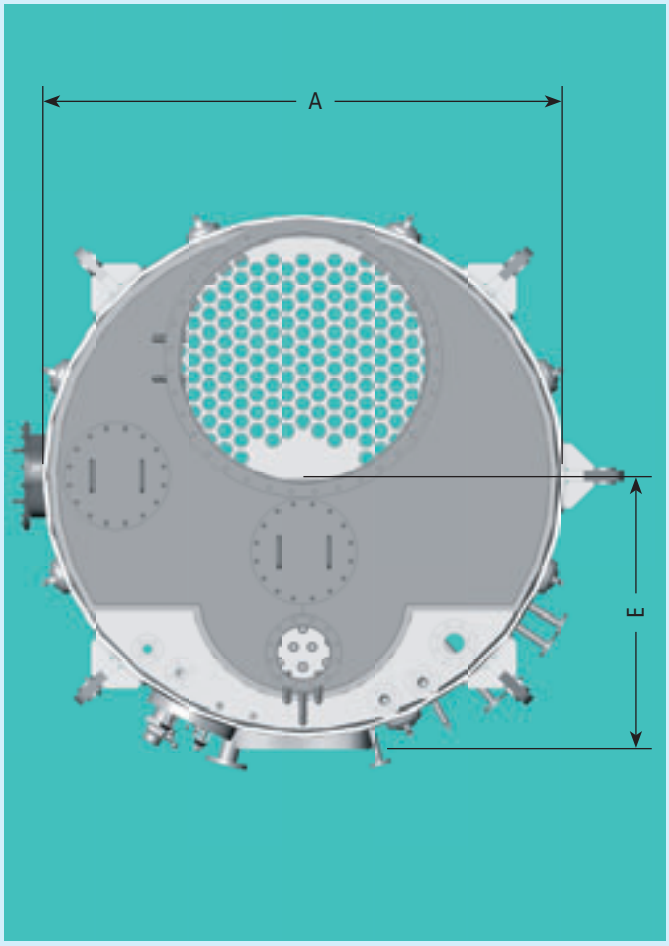
Capacity	**Oil fired section up to 5 t/h** **Exhaust gas section as required**
Design pressure	**up to 1.2 MPa**

Design Features

The CMB-VS is a combined vertical exhaust gas and oil fired boiler.
The heat transfer in the standard oil fired section is performed through the plate furnace and a number of rifled plain smoke tubes. The oil fired section can be equipped with pin tubes on request. The exhaust gas section is designed with plain smoke tubes.
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.

SAACKE MARINE SYSTEMS
heat generating plants





Note

Exhaust gas section of the composite boiler is designed according to diesel engine exhaust gas data and steam demand in each particular case.

Steam capacity oil fired section t/h	Steam capacity exhaust gas section t/h	Design pressure MPa	Main engine	A* mm	B** mm	C mm	D mm	E mm	Boiler dry weight** kg	Water volume at NWL m^3	Recommended burner type***
1.5	*1.0*	*0.9*	*MAN&BW 6S 50 MC-C7 at 100 % ISO condition*	*2710*	*6120*	*780*	*250*	*1325*	*20300*	*11.2*	*SKVJ-M 14*
1.0	depending on main engine type and layout	1.0		*Above given numbers are examples of existing boilers. Dimensions are depending on exhaust gas amount and exhaust gas temperature.*							SKVJ-M 10
1.5											SKVJ-M 14
2.0											SKVJ-M 18
2.5											SKVJ-M 18
3.0											SKVJ-M 24
3.5											SKVJ-M 28
4.0											SKVJ-M 36
5.0											SKV-A 46

* including insulation

** including insulation, refractory, valves and recommended burner

*** please note that recommendation of burner type is based on 60Hz frequency, for 50Hz applications, the burner type may be different

SAACKE MARINE SYSTEMS

SAACKE GmbH · Südweststrasse 13 · 28237 Bremen · Germany · Tel.: +49 - 421 - 64 95 0 · marine@saacke.de
www.saacke.com