

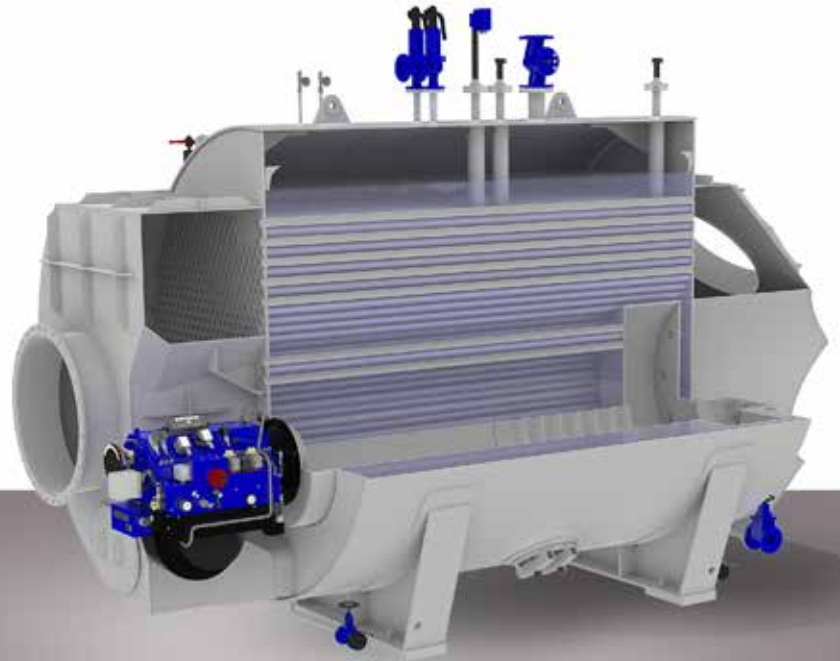
LNG carriers

Dry cargo vessels

FPSO applications

Passenger vessels

Tankers



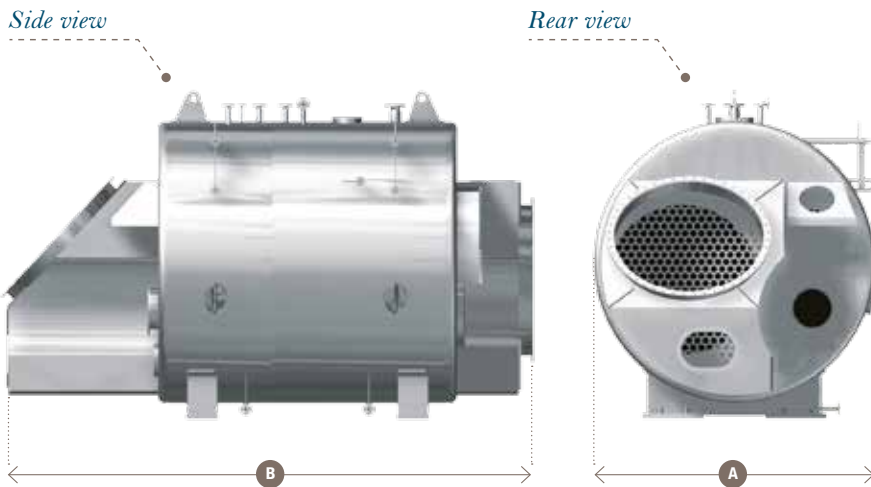
Composite Marine Boiler CMB-HF

The CMB-HF is a combined horizontal exhaust gas and three-pass fired boiler. Due to the third pass in the convection part in the fired section the efficiency is the highest possible for marine boilers. The heat transfer in the fired section is performed through the corrugated/plain flame tube furnace and a number of plain smoke tubes. These smoke tubes and the furnace can be easily accessed for cleaning through the chamber doors. The exhaust gas section is designed with plain smoke tubes.

Technical data: CMB-HF

Steam Capacity	Fired section up to 10 t/h Exhaust gas section as required
Design pressure	Up to 1.2 MPa

Dimensions CMB-HF



Product information

- Combined horizontal exhaust gas and three-pass oil fired boiler
- Highest possible efficiency for marine boilers
- Heat transfer is performed through corrugated/plain flame tube furnace and a number of plain smoke tubes
- For liquid and gaseous fuels

Boiler data

Steam capacity fired section	Steam capacity exhaust gas section	Design pressure	Main engine	A*	B**	Dry weight***	Water content at NWL
t/h	t/h	Mpa	mm	mm	mm	kg	m ³
7.0	7.0	1.0	MAN B&W 12 K98 ME, at 90 % MCR ISO condition	5,450	11,300	94,000	63.0
3.0	3.0	1.0	MAN B&W 8 K80 MC-C6, at 85 % MCR ISO condition	3,550	8,600	35,500	17.5
2.0	2.0	1.0	MAN B&W 7 S60 MC-C MK8, at 90 % MCR ISO condition	3,450	6,750	28,000	22.0
1.0	Depending on main engine type and layout	1.0					
1.5		1.0					
2.0		1.0					
2.5		1.0					
3.0		1.0					
3.5		1.0					
4.0		1.0					
5.0		1.0					
6.0		1.0					
7.0		1.0					
8.0	1.0						
9.0	1.0						
10.0	1.0						

Above given numbers are examples of existing boilers. Dimensions are depending on exhaust gas amount and exhaust gas temperature.

Exhaust gas section designed according to engine exhaust gas data and steam demand in each particular case. 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 gas hoods *** including insulation, refractory, valves and burner

