

Technical data sheet

Composite marine boiler CMB-VF-LONOX®

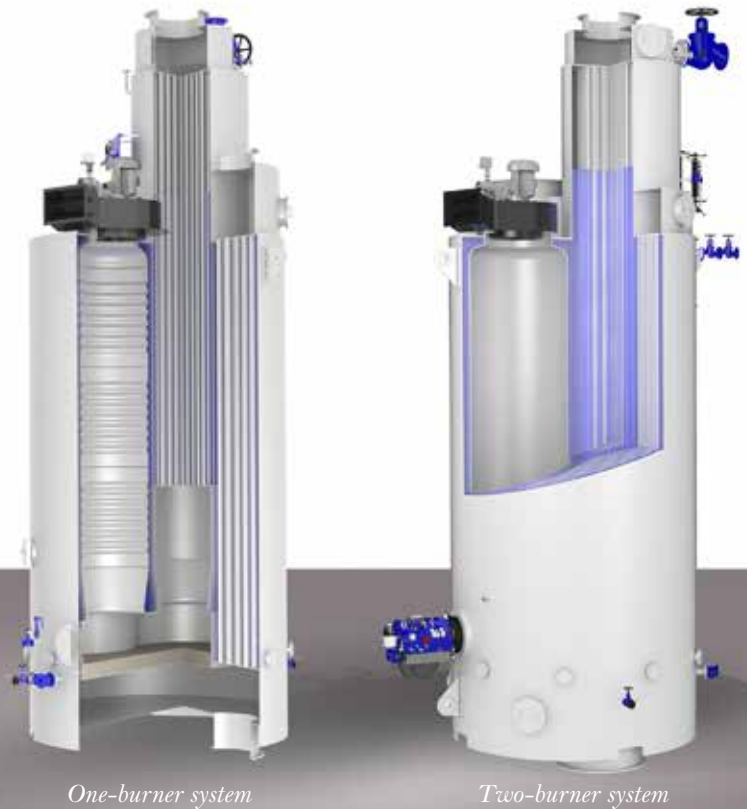
SAACKE MARINE SYSTEMS

LNG carriers

Dry cargo vessels

Passenger vessels

Tankers



Composite Marine Boiler CMB-VF-LONOX®

The innovative SAACKE vertical composite boiler also covers variable demands for steam on almost all ship types, and saves on the need for an entire auxiliary boiler plant. The plant achieves a maximum fired steam output of up to 18 t/h. A good control range is achieved using a rotary cup burner.

The boiler control is fully automatic. If another auxiliary boiler is included in the equipment, for example on larger tankers, this boiler and the CMB-VF can be operated in a master-slave mode. The boiler system is also compatible with dual fuel applications and can be delivered with flue gas recirculation for emissions in the Ultra-Low NO_x range if desired.

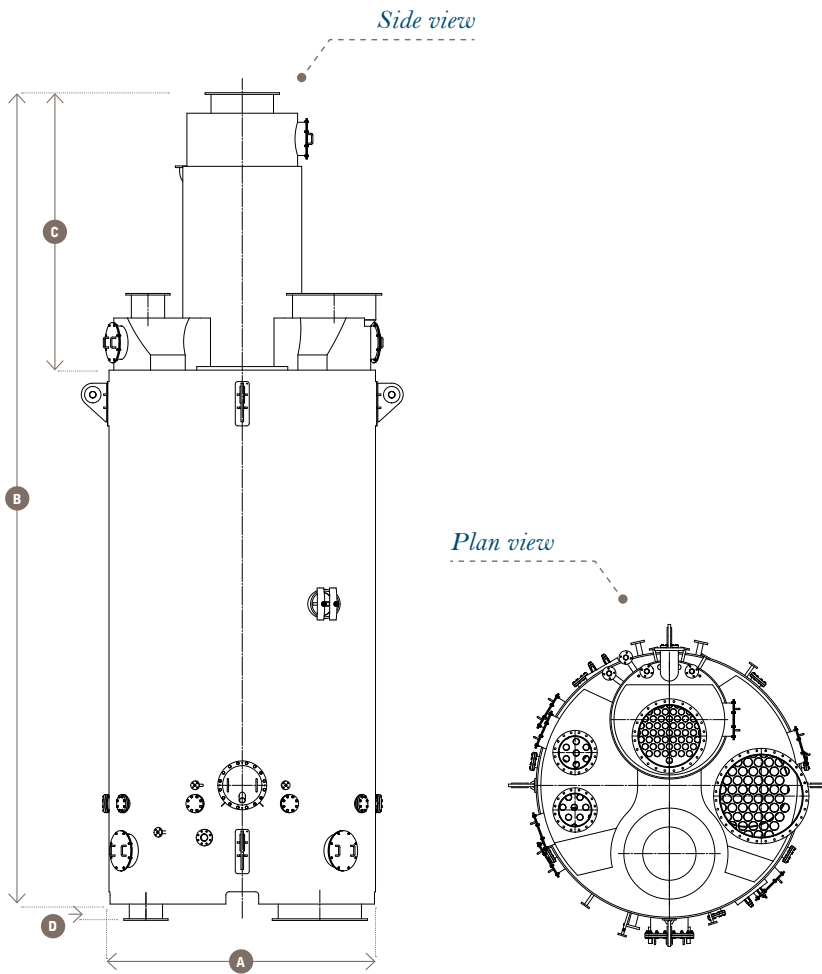
The CMB-VF-LONOX halves your entire boiler system as a low-emission 2-in-1 solution without compromising the steam output. For extremely high control ranges (1:18) it is also as a two-burner system available.

Technical data: CMB-VF-LONOX®*

Steam capacity		
CMB-VF-LONOX	Up to 13 t/h	
CMB-VF	Up to 18 t/h	
Fuels	MGO, HFO, gas	
Control range	Up to 1:7 / 1:18	
Low NO _x emissions (without secondary measures and based on 3 % O ₂ in the exhaust gas)	Natural gas:	200 mg/Nm ³
	Light oil:	300 mg/Nm ³
		(fuel-nitrogen content approx. 0.02 percent by weight)
	Heavy fuel oil:	800 mg/Nm ³
		(fuel-nitrogen content approx. 0.4 percent by weight)

* Technical data of two-burner system on request

Dimensions CMB-VF-LONOX® (One-burner system)



Product information

- ↘ Unrivalled capacity range
- ↘ High control range
- ↘ Low maintenance expense
- ↘ Reduction in acquisition, operating and maintenance costs
- ↘ Compact 2-in-1 boiler solution
- ↘ Extremely low-emission combustion
- ↘ For extremely high control ranges (1:18) also as a two-burner system available
- ↘ For liquid and gaseous fuels

18 t/h
capacity

Low NO_x*
combustion

* Up to steam capacity of 13 t/h

Boiler Data (One-burner system)*****

Steam output of the oil-fired part	Steam output of the exhaust gas part	Design pressure	Main engine	A*	B	C	D	Dry weight**	Water volume for NWL	Recommended burner type***
t/h	t/h	MPa		mm	mm	mm	mm	kg	m ³	
18	1	1.0	MAN B&W 6S50ME-B9.3 at 90% MCR ISO	3,860	10,700	3,388	200	44,000	38.5	SKV 150
15	****	1.0		****	****	****	****	****	****	SKV 150
12	1.03	1.0	1 x MAN B&W 6S50ME-B9.5 TII at 71% MCR ISO 2 x MAN B&W 6L23/30H Mk2 TII at 85% MCR ISO	3,410	9,895	3,388	200	35,900	28.5	SKV 100
10	****	1.0		****	****	****	****	****	****	SKV 80
8	****	1.0		****	****	****	****	****	****	SKV 60
6	****	1.0		****	****	****	****	****	****	SKV 50

* Including insulation ** Including insulation, refractory, valves and recommended burner *** Recommended burner type based on 60 Hz; the burner type may differ at 50 Hz

**** Dimensions, weight and steam output of the exhaust gas part are derived from the exhaust gas data for the main engine ***** Technical data view frontpage

