

Capacity	14 - 45 t/h
Design pressure	up to 1.8 MPa

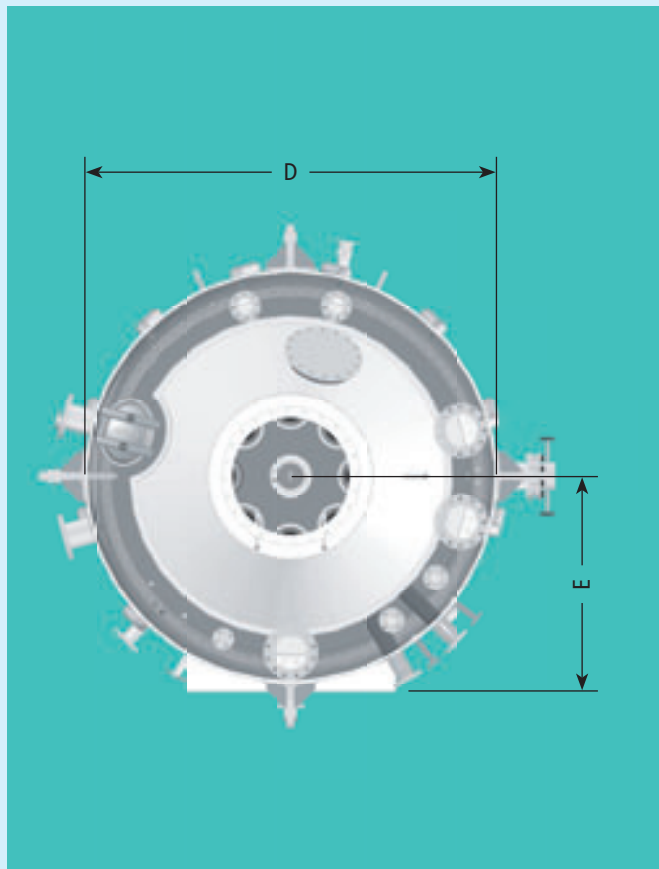
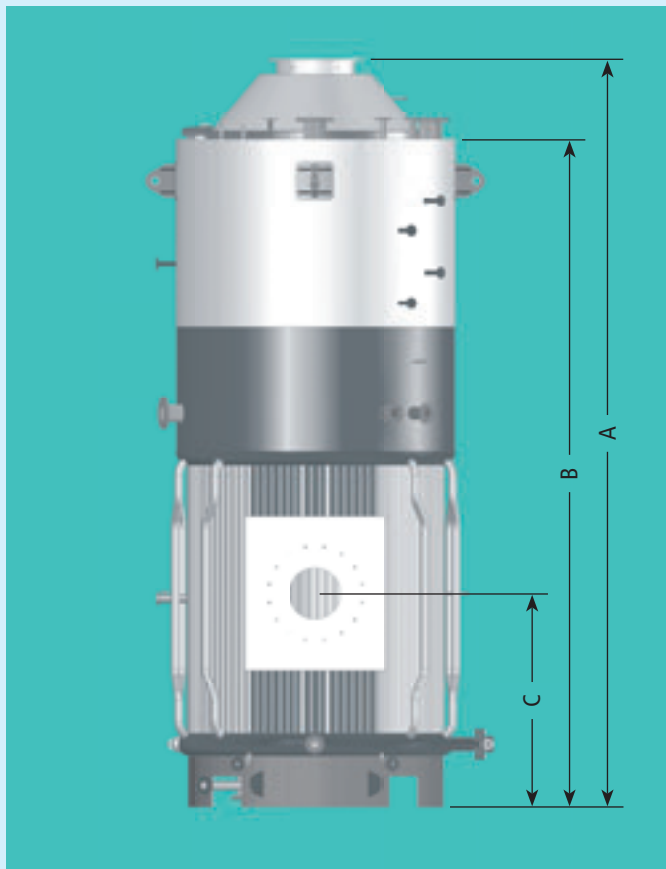
Design Features

The FMB-VL is a water tube type steam boiler for medium to large power range.

The radiation heat transfer is performed in the membrane wall furnace of cylindrical design, whilst the convection heat transfer is carried out through special pin elements.

An effective natural water circulation is ensured in all areas of the boiler by means of several external downcomer pipes connecting the water / steam drum with the ring-shaped collector at the boiler basement.

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 downcomer connections on the periphery of the drum before they can accumulate on the furnace top plate.



Steam capacity t/h	Design pressure MPa	A mm	B mm	C mm	D* mm	E mm	Boiler dry weight** kg	Water volume at NWL m ³	Recommended burner type***
14.0	1.8	6900	6220	2120	2900	1670	22100	8.0	SKV-A 134
16.0	1.8	7500	6720	2220	2900	1670	23800	7.9	SKV-A 134
20.0	1.8	7200	6420	2220	3300	1870	28100	10.2	SKV-A 152
25.0	1.8	8100	7320	2320	3300	1870	31050	10.8	DDZ-M 200.02
30.0	1.8	8100	7120	2420	3900	2170	38350	12.5	DDZ-M 300.01
35.0	1.8	8900	7920	2620	3900	2170	44350	15.0	DDZ-M 300.02
40.0	1.8	9000	7920	2720	4100	2270	49600	16.5	DDZ-M 300.03
45.0	1.8	10000	8920	3020	4100	2270	50600	16.7	DDZ-M 450.01

* 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

Dimensions A and B as well as weight and water volume may differ for systems with forced circulation exhaust gas economisers which use the FMB-VL boiler as steam separator.

For GL and RMRS the boiler height, weight and water volume will be increased.