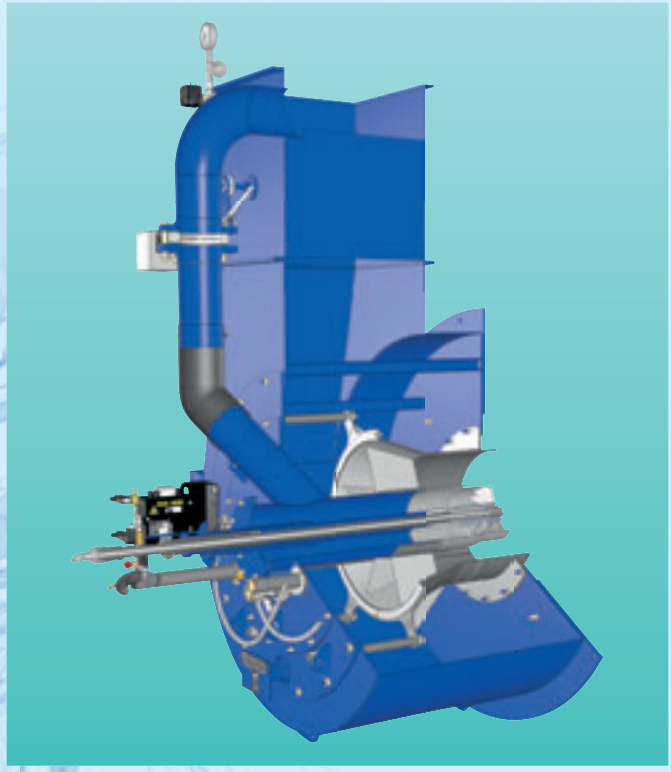
Steam pressure atomizer

DDZ-M



Capacity	**8.5 – 37 MW**
Fuel oil	**Heavy Fuel Oil up to 700 cSt/50 °C**
	Marine Diesel Oil
	Marine Gas Oil
Fuel gas	**Natural gas standard and all others on demand, e.g. natural gas from well**
Control range	**1:7 for burners up to 13.5 MW**
	1:10 for burners from 13.5 – 21 MW
	1:15 for burners > 21 MW

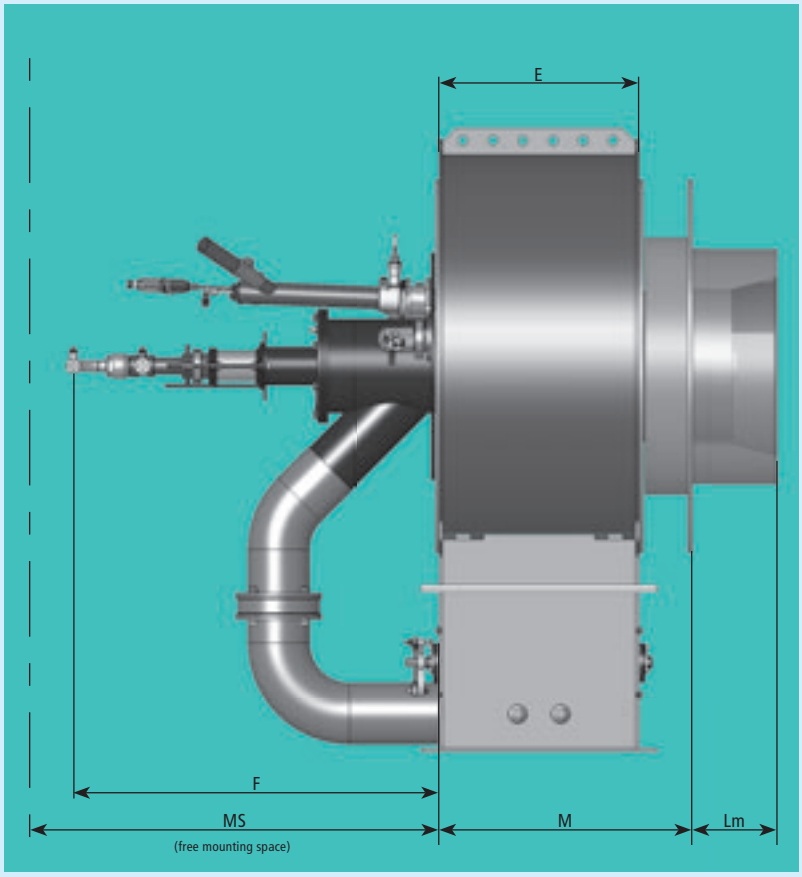
Design Features

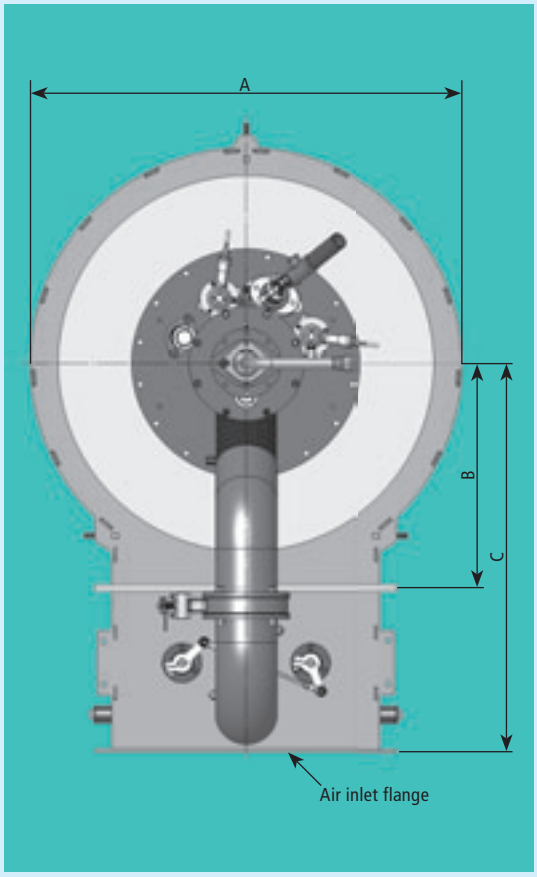
The SAACKE steam pressure atomizer is designed for firing medium and large sized water tube boilers such as auxiliary and main boilers for tankers and FPSOs.

The unique SAACKE design features staged combustion air supply and distribution. This allows a high control range and ensures complete combustion, resulting in low O_2 values even when operating on low load. At the same time, a very stable flame over the whole load range is given. On account of its highly versatile flame geometry, the DDZ-M burner is equally suitable for side fired and top fired boilers.

The fuel-air ratio is controlled by an electronic compound regulator in combination with a PLC combustion controller. A mechanical compound regulator can be supplied on demand.

For FPSOs and LNG carrier applications this burner is available as a combined oil and gas burner, of type DDZG.





Burner	Type	Burner inside diameter mm	max. capacity[1] MW	Boiler output[5] sat. steam t/h	Lm[2] mm	A mm	B mm	C mm	E mm	F mm	M mm	MS[3] mm	Burner weight[4] kg
DDZ-M 100	.01 .02	300 315	8.5 10.0	10 12	200	1000	700	1150	366	678	616	1800	490
DDZ-M 150	.01 .02	330 350	11.5 13.5	14 16	200	1000	700	1150	366	678	616	1800	540
DDZ-M 200	.01 .02	385 420	16.5 21.0	20 25	250	1200	800	1250	466	678	716	2000	610
DDZ-M 300	.01 .02 .03	445 475 505	24.5 29.0 33.5	30 35 40	300	1450	1000	1450	616	710	866	3000	900
DDZ-M 450	.01	535	37.0	45	350	1800	1400	1950	766	825	1016	3750	1530

[1] only for boiler FMB-VM and FMB-VL and combustion air temperature max. 45°C. The boiler hole diameter should be 10 mm more than indicated value. Top fired boiler refractory design is dependent on applied fuels.

[2] minimal length

[3] depends on actual burner design

[4] without combustion air fan

[5] steam pressure 16 bar (g), feedwater temperature: 95°C

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