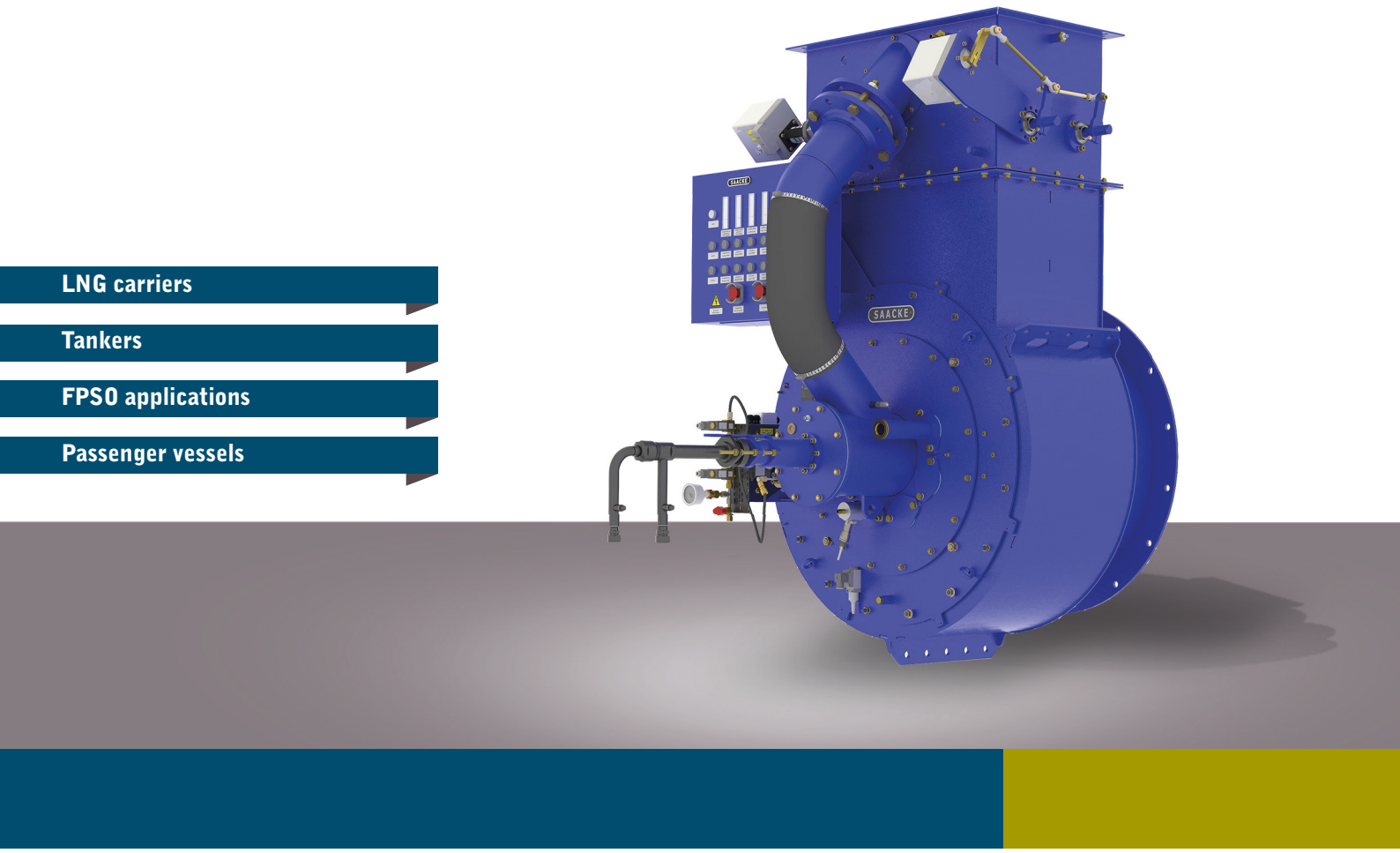
Technical data sheet
Steam pressure atomizer DDZ-M

SAACKE MARINE SYSTEMS



- LNG carriers
- Tankers
- FPSO applications
- Passenger vessels

Steam pressure atomizer DDZ-M

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.

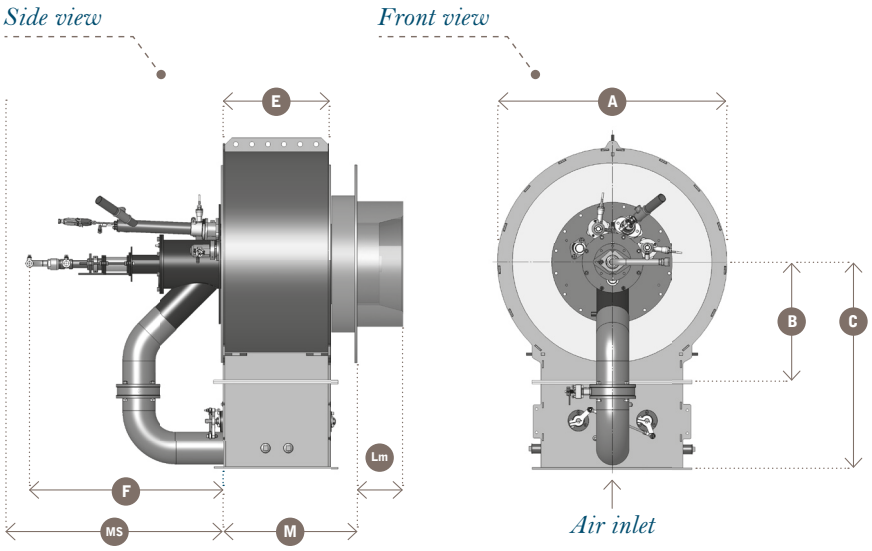
On account of its highly versatile flame geometry, the DDZ-M burner is equally suitable for side fired and top fired boilers.
The fuel-air ratio is controlled by an electronic compound regulator in combination with a PLC combustion controller. A mechanical compound regulator can be supplied on demand (with reduced control range). For FPSOs and LNG carrier applications this burner is available as a combined oil and gas burner, of type DDZG.

Technical data: DDZ-M

Capacity	8.4-50 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	Up to 1:7 for burners up to 13.5 MW Up to 1:10 for burners 13.5-21 MW Up to 1:15 for burners 21-29 MW* Up to 1:20 for burners 29-50 MW*

* In combination with D-type boiler FMB-VD

Dimensions DDZ-M



Product information

- Designed for firing medium and large sized water tube boilers
- Staged combustion air supply and distribution
- High control range
- Very stable flame
- Suitable for side fired and top fired boilers
- Available as combined oil and gas burner for marine applications

Burner dimensions and weight

Model	Lm*	A	B	C	E	F	M	MS**	Burner weight ***
		mm	mm	mm	mm	mm	mm	mm	kg
DDZ-M 100	200	920	700	1,050	360	920	616	2,250	470
DDZ-M 150	200	920	700	1,050	360	920	616	2,250	480
DDZ-M 200	250	1,100	800	1,250	460	920	716	2,350	610
DDZ-M 300	300	1,700	1,000	1,450	610	970	866	2,600	800
DDZ-M 450	350	1,600	1,200	1,800	762	1,181	1,016	3,150	1,150

Burner data

Model	Type	Burner inside diameter	Max. capacity****	Boiler output***** sat. steam
		mm	in MW	t/h
DDZ-M 100	.01	300	8.4	10
	.02	315	10.0	12
DDZ-M 150	.01	330	11.8	14
	.02	350	13.5	16
DDZ-M 200	.01	385	16.8	20
	.02	420	21.0	25
DDZ-M 300	.01	445	25.2	30
	.02	475	29.5	35
	.03	505	33.7	40
DDZ-M 450	.01	555	38.3	45
	.02	555	41.6	50
	.03	555	50.0	55

* minimal length ** depends on actual burner design *** without combustion air fan **** 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. ***** steam pressure 16 bar (g), feedwater temperature: 60°C

0-0750-0054-02

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