

## STEAM MEDIUM-PRESSURE BOILER - PMD

### Use:

Automatic medium-pressure steam boilers of the PMD series are used for the production of saturated steam with a nominal overpressure of up to 0.6 MPa and a temperature of up to 160 °C intended for heating, heating of DHW exchangers or as a source of technological heat. Boilers of the PMD series are characterized by a small construction and simple installation



Boiler type		PMD 10	PMD 35	PMD 70	PMD 110
Boiler length	mm	1020	1530	1940	2035
Boiler width	mm	720	1350	1600	1760
Boiler height	mm	1940	1950	2340	2500
Height of the smoke extension	mm	550	850	1040	1140
Diameter of the smoke extension	mm	159	273	324	377
Steam flange DN/PN 16	DN	40	65	80	100
Launch flange DN/PN 16	DN	x	15	15	15
Safety flange DN/PN 40	DN	25	40	40	40
Gas supply DN/PN 16	DN	1"	40	40	40
Inlet flange DN/PN16	DN	40	40	1"	1"

### Technical description:

The pressure part of the medium-pressure steam boiler PMD consists of two steel cylinders, welded to the front and rear walls. The combustion chamber is cylindrical, water-cooled, closed at the back. The rear wall forms a flue gas turnover, which returns around the perimeter of the combustion chamber back to the front wall and passes into the second part, formed by smoke pipes. At the top there is a steam area with the relevant flanges and equipment. On the side of the boiler is a feed pump with an electric motor and prescribed fittings for automatic power supply. The boiler is equipped with pressure and temperature regulators, a safety valve, water level indicators, pressure gauges, thermometers, water level monitors, a drain valve and a limit switch on the door. The boiler is equipped with a monobloc overpressure burner with combustion gas regulation.

The automatic medium-pressure steam boiler PMD is equipped with automatic regulation for operation with occasional maintenance.

Boiler type		PMD 10	PMD 35	PMD 70	PMD 110
Nominal heat output	kW	100	350	700	1100
Nominal steam output	kg/h	150	500	1000	1600
Constructial steam overpressure	MPa	0,6	0,6	0,6	0,6
Nominal steam overpressure	MPa	0,53	0,53	0,53	0,53
Nominal steam temperature	°C	160	160	160	160
Efficiency at nominal output without / with economizer	%	92/95	92/95	92/95	92/95
Transport weight	kg	900	1800	2600	3350
Operating weight	kg	1150	2400	4100	5150
Min. feed water temperature	°C	70	70	70	70
Max.No <sub>x</sub> emissions	mg/m <sup>3</sup>	80	80	80	80
Max.CO emissions	mg/m <sup>3</sup>	40	40	40	40
Electric power input	kW	3,7	6	6	7
Electric power supply	230/400 V, 50Hz, TN-C-S				
Gas pressure before the burner	kPa	2-10	15-20		
Natural gas consumption	m <sup>3</sup> /h	12	42	84	130