

Mobile Hot Water Heating Plants - Trailer-Mounted - Thermal Capacity - 160 to 2,500 kW

A mobile boiler room is a mobile source of hot water for heating and technological purposes. It is adapted for hot water supplies for heating buildings, with an option of heating hot utility water or a mobile technology applying hot utility water. It is of special advantage on sites where a mobile thermal source is needed. There are almost no requirements for boiler rooms installation. The boiler rooms are supplied with a burner for liquid fuel burning. The standard modification includes a diesel generator set allowing for the boiler room operation without an external supply of electricity.

Technical Specifications

The transportable hot water boiler room is completely fitted with machinery and electrical equipment on a trailer adapted for the road. The set includes the necessary pipes including pumps, a water treatment plant, system protection by means of a closed expansion vessel, the respective electrical installations of the measuring and control system. The system is supplemented with circulation pumps for supplying the fluid into the heating network, with all the necessary equipment for the preparation of hot utility water. A diesel generator set added to the container boiler room serves for generating electricity for the boiler room operation. In the table below, the outputs up to 2.5 MW are included.

Supply and Storage

The transportable boiler-room is supplied as a unit (boiler, water treatment plant, system protection, operating heavy current distribution, measuring and control) including a thermally insulated trailer case and a diesel generator set.

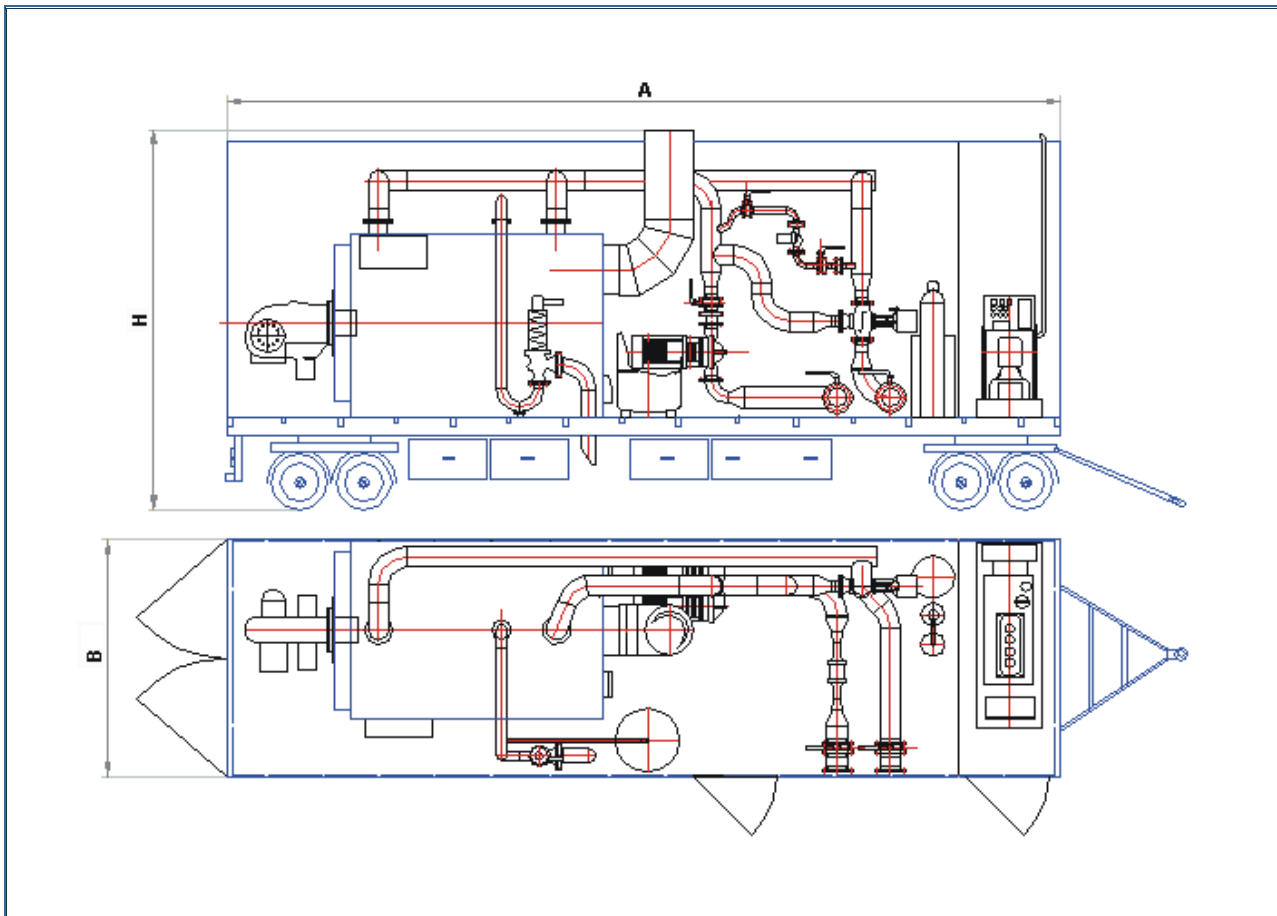
Technical Parameters - TPV-P Boiler Rooms

Type of TPV-P	Units	TPV-P160	TPV-P250	TPV-P400	TPV-P650	TPV-P1000	TPV-P1600	TPV-P2500
Rated output	kW	160	250	400	650	1000	1600	2500
Maximum output	kW	180	290	465	730	1150	1860	2900
Minimum output	kW	84	130	214	328	520	856	1350
Maximum overpressure	MPa	0,6 (0,9 ; 1,4)						
Water temperature drop	°C	90 / 70						
Maximum output water temperature	°C	110						
Minimum water flow	m ³ /h	3,6	5,6	9,2	14,1	22,4	36,8	58
Minimum input water temperature	°C	70						
Boiler efficiency	%	89 - 94						
Fuel	-	Fuel Oil, LO, Propane						
Temperature of combustion air	°C	20						
Fuel consumption at maximum output	kg/hr	17,8	28,6	45,8	71,9	113,3	183,3	285,8
Maximum of air for combustion (lambda=1,1)	Nm ³ /h	204	328	526	825	1300	2105	3278
Maximum amount of flue gases	Nm ³ /h	219	352	564	886	1396	2258	3517
Emissions								
Propan: - standard - low emission	mg/Nm ³	NOx - 160, CO - 50 NOx - 100, CO - 50						
LO	mg/Nm ³	NOx - 450, CO - 175, SO ₂ - 1000, solid substances - 100, smoke rate < 2						
Dimensions								
Length A	mm	6920	7140	7320	7640	7840	8440	9040
Width B	mm	6920	2575	2575	2575	2575	2575	2575
Height H	mm	2575	3950	3950	3950	3950	3950	3950
Input / Output	mm	80 / 80	80 / 80	100 / 100	125 / 125	150 / 150	150 / 150	200 / 200

TECHNICAL CHANGES ARE RESERVED

Emissions relate to 3% O₂ in dry combustion products at t = 0°C and barometric pressure. The given emission levels may be maintained provided that the liquid fuel contains (except for values according CSN 656506) maximally: S < 5 000 mg/kg, N < 1 000 mg/kg, asfalthenes < 3 %.

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