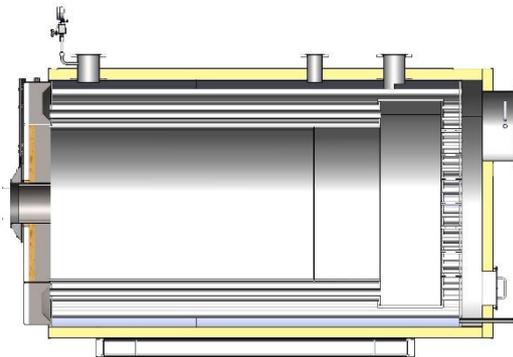


HOT WATER LOW-TEMPERATURE BOILER - VNTK 16 - 400

Use:

The hot water low-temperature boiler VNTK is designed for production of heating water with a nominal working overpressure up to 0.6/1MPa and temperature up to 110°C. It is designed for combustion of natural gas, diesel and light fuel oil. The ideal solution is to use it as a standalone source or as a central heating unit for heating buildings for civil and industrial use. VNTK boilers allow flexible and fully automatic operation. They were developed to replace some well-proven ČKD KDVE and BK boilers, taking into account today's requirements for efficiency and low emission values. Their advantage is robust construction, high efficiency, simple installation, simple maintenance and repairability, long reliability with a 5-year warranty. All this is supported by a 24-hour service background in the Czech Republic.



Technical description:

The boiler body consists of two steel cylinders welded to the front and rear walls. The combustion chamber is cylindrical, water-cooled. The rear wall forms a flue gas turnover, which passes into the second draught and returns through the fire tubes back to the front wall, where it turns into the third draught, which is formed by the openwork fire tubes. The front lid can be opened to the right or to the left depending on the location in the boiler room. It allows easy access to heating surfaces and their cleaning. The boiler is insulated and plated with blue anodized sheet and equipped with all measuring devices according to standards.

Upon request, the boiler can be supplied as an aggregate from the manufacturing plant with a burner, fittings and boiler automation, etc.

Boiler type	VNTK	16	25	40	65	100	160	250	300	400
Nominal output	kW	160	250	400	650	1000	1600	2500	3000	4000
Power input	kW	170	266	425	691	1064	1702	2659	3191	4255
Min. flow at nominal output	m ³ .h ⁻¹	3,6	5,6	9,2	14,1	22,5	36,8	58	69	92
Constructual overpressure	Bar	6	6	6	6	6	6/10	6/10	6/10	6/10
Max. temperature of output water	°C	110	110	110	110	110	110	110	110	110
Min. temperature of input water	°C	60	60	60	60	60	60	60	60	60
Boiler efficiency	%	92-94	92-94	92-94	92-94	92-94	92-94	92-94	92-94	92-94
Boiler efficiency with economiser	%	95-97	95-97	95-97	95-97	95-97	95-97	95-97	95-97	95-97
Boiler resistance on the flue gas side	Pa	150	170	230	310	420	440	600	700	700
Boiler length	mm	1900	2300	2600	2850	3250	3095	3350	3640	5200
Boiler width	mm	930	1000	1090	1250	1420	1660	2040	2120	2350
Boiler height	mm	1020	1100	1230	1400	1555	1805	2185	2265	2470
Height of the hole for the burner	mm	515	600	653	735	810	975	1165	1205	1426
Height of the smoke extension	mm	695	870	960	1075	1210	1420	1750	1780	2050
Diameter of the smoke extension	mm	219	219	273	324	377	470	530	630	700
Output and input flange PN6	mm	80	80	100	125	125	150	150	200	250
Diameter of combustion chamber	mm	480	516	580	715	825	943	1150	1200	1150
Length of combustion chamber	mm	1000	1400	1600	1850	2200	2290	2500	2785	4000
Hole for the burner	mm	200	200	240	240	280	298	340	340	410
Combustion chambre load	MW/m ³	1,07	1,07	1,07	1,06	1,06	1,06	1,02	1,01	1,05
NO _x emissions (3 %O ₂) - Max	mg.m ⁻³	80	80	80	80	80	80	80	80	80