BOILTE®
engineered trust

BOILTE CORE

RELIABLE HEAT SOURCE FOR YOUR PRODUCTION

POWER: 50–6000 kW
TEMPERATURE: up to 115°C
PRESSURE: 6 bar

Boilte Core

FUEL: GAS / DIESEL / HEAVY FUEL OIL / HEATING OIL / WASTE OIL

The ideal solution for your production.

Industrial fire-tube boilers Boilte Core are a reliable, powerful, and compact heat source for heating workshops, warehouses, greenhouses, and technological processes. The model range from 50 to 6000 kW covers the needs of medium-sized businesses and large industrial enterprises.

The key advantage: Proven cost-effectiveness throughout the entire service life.

The core feature of Core: the ideal combination of price and quality. We have eliminated intermediary markups and excessive costs, directing resources toward premium materials and high-precision manufacturing. You get premium-class reliability at an affordable price.

Key advantages (6 reasons to choose Core)

1. Versatile power – from 50 to 6000 kW for any task.
2. Compact design – installation even in confined spaces.
3. High efficiency – over 92% through latent heat recovery, heating up to 115°C.
4. Fuel flexibility – natural gas, diesel, fuel oil, heating oil, waste oil. Protection against price fluctuations.
5. Robust construction – gas-tight design, pressurised operation.
6. Two-pass design with reversing combustion chamber – optimal balance of efficiency, compactness, and serviceability. The combustion chamber is centrally located.

Engineering excellence

High energy efficiency. Counter-flow heat exchange with reversing flame movement. Smoke tubes are equipped with spiral turbulators that create turbulence for maximum heat extraction. Operational costs are reduced every day.

Uncompromising reliability. Cylindrical symmetry of the shell and tube sheets ensures ideal load distribution, improving fatigue life. Automated welding, laser cutting, multi-stage inspection (X-ray, ultrasonic). Quality reports for every weld.

Ease of maintenance:

- Rear smoke chamber – a single, easily removable bolted unit.
- Front door opens in any direction (ideal for confined spaces).
- High thermal inertia – an integrated stabiliser that maintains stable temperature and protects technological processes from fluctuations.

Standard scope of supply

- Pre-insulated block casing (mineral wool + steel cladding)
- Front removable door with adjustable hinges (opens in any direction)
- Rear bolted door (smoke chamber)
- Smoke tube turbulators (complete set)
- Lifting lugs for crane installation
- Flame inspection window with heat-resistant glass
- Hydraulic connections: flow, return, drain
- Connections: flue gas outlet (flange), condensate drain
- Passport and operating instructions in Russian, certificates, warranty card

Important: The burner, pump unit, and control system (PLC) are selected separately according to your technical specifications for perfect adaptation to the facility.

Fields of application

- Industrial workshops – heating of machine-building, metalworking, and woodworking facilities.
- Greenhouse complexes – stable year-round heating for industrial greenhouses, hydroponic farms, and nurseries.
- Warehouses and logistics centres – temperature control for chemicals, food products, pharmaceuticals, and electronics.
- Food and dairy industry – heating for pasteurisation, sterilisation, washing, and drying lines.
- Chemical and pharmaceutical industry – process heating for reactors, distillation columns, and CIP systems.
- Automotive service centres – heating of service bays, paint booths, and car washes.

Technical specifications

Model, Core	Power, kW**	Efficiency, %	Boiler resistance, mbar	Water volume, L	Flue gas flow, m^3/h	Gas consumption, m^3/h	H, mm	B, mm	L, mm	Dry weight, kg
50	50	92,11	0,4	60	92,40	6,81	737	600	1067	200
70	70	92,11	0,3	120	151,41	8,33	968	800	1168	308
100	100	92,12	0,4	140	171,55	11,55	968	800	1238	326
150	150	92,02	1,2	107	257,03	16,56	968	800	1353	355
200	200	92,14	2,5	200	340,67	21,95	968	800	1468	383
250	250	92,11	4,6	320	427,33	27,34	968	800	1718	444
300	300	92,13	3,1	360	512,78	32,81	1093	900	1724	619
350	350	92,11	4,6	450	597,35	38,51	1093	900	1824	652
400	400	92,11	5,6	490	716,84	43,90	1093	900	1924	686
500	500	92,12	4,8	530	854,70	54,69	1194	1000	1974	821
600	600	92,12	6,9	640	1011,57	65,47	1194	1000	2274	946
700	700	92,12	5,7	850	1203,33	77,03	1194	1000	2474	1027
800	800	92,12	3,9	890	1411,72	88,58	1523	1300	2186	1366
900	900	92,11	5,1	950	1588,66	98,59	1523	1300	2286	1421
1000	1000	92,11	6,7	1200	1730,81	109,38	1523	1300	2486	1534
1100	1100	92,12	4,0	1400	1917,25	120,55	1523	1300	2656	1674
1200	1200	92,12	5,2	1500	2050,02	131,72	1523	1300	2856	1793
1300	1300	92,09	6,3	1600	2221,12	142,50	1523	1300	2956	1853
1400	1400	92,15	7,6	1610	2401,41	154,05	1523	1300	3056	1914
1500	1500	92,11	5,1	1700	2597,32	164,45	1702	1450	2778	2310
1600	1600	92,13	6,0	1750	2771,42	175,62	1702	1450	2878	2387
1700	1700	92,11	7,0	1800	2991,34	186,41	1702	1450	2978	2466
1800	1800	92,11	8,1	1850	3019,62	197,19	1702	1450	3078	2547
2000	2000	92,12	8,0	2000	3457,16	219,53	1842	1550	3182	3055
2200	2200	92,12	10,1	2220	3750,79	241,10	1842	1550	3282	3147
2500	2500	92,14	6,8	2700	3921,14	273,45	2126	1800	3183	4350
2800	2800	91,11	9,1	2910	4401,44	306,57	2126	1800	3333	4534
3000	3000	92,11	11,0	3100	4597,43	328,91	2126	1800	3533	4822
3300	3300	92,12	14,0	3350	5071,78	362,03	2126	1800	3833	4976
3500	3500	92,11	16,5	3550	5891,15	385,14	2126	1800	3833	5159
4000	4000	92,12	2,7	3750	6171,41	439,06	2565	2201	4216	8425
4500	4500	91,12	3,7	3950	6890,97	492,99	2565	2201	4346	8709
5000	5000	90,14	4,8	4170	7590,74	546,91	2565	2201	4466	8978
5500	5500	90,11	6,0	4250	8290,38	602,37	2565	2201	4566	9300
6000	6000	90,13	7,3	4550	8868,83	657,06	2565	2201	4766	9692

Power: The values shown correspond to operation on methane (natural gas). When using diesel fuel or heavy fuel oil (mazut), a power adjustment (reduction) may be required in accordance with design standards and fuel-specific calculations.
Boilte reserves the right to modify dimensions and design without prior notice.
Dimensional tolerance: ±0.1–0.2% for all Boilte equipment.

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