

THUNDERBOLT SERIES

STEAM BOILERS

SOLID FUEL

**3 PASS
SEMI-CYLINDRICAL
STEAM BOILERS**



ECONOMIC STEAM

**SAFE
STEAM**



Steam Production Capacity

200 kg/h - 4.000 kg/h



Operating Pressure

6-12 Bar



Thermal Capacity

140 kW - 2.791 kW



Design Type

Fire-Tube, Semi-Cylindrical,
3 Pass



Fuel Type

Lignite, Bituminous Coal, Pulverized Coal, Pellets,
Olive Pomace, Olive Stones, Wood, Wood Chips,
Wood Dust, Sawdust, Plywood Waste,
Chipboard Scrap, Hazelnut Shells, Cherry Stones,
Walnut Shells, Straw, Sunflower Husks,
Compressed Bio-Pellets, Pellets, Peanut Shells,
Almond Shells, Fruit Pulp, Poultry Manure, Rice Husks

Capacity Table

Model	Steam Capacity (kg/h)	Thermal Capacity (kcal/h)	Thermal Capacity (kW)	Thermal Capacity (MW)
THUNDERBOLT 200A	200	120.000	140	0,14
THUNDERBOLT 300A	300	180.000	209	0,21
THUNDERBOLT 400A	400	240.000	279	0,28
THUNDERBOLT 500A	500	300.000	349	0,35
THUNDERBOLT 600A	600	360.000	419	0,42
THUNDERBOLT 700A	700	420.000	488	0,49
THUNDERBOLT 800A	800	480.000	558	0,56
THUNDERBOLT 900A	900	540.000	628	0,63
THUNDERBOLT 1000 A	800	480.000	558	0,56
THUNDERBOLT 1200A	1.200	720.000	837	0,84
THUNDERBOLT 1400 A**	1.400	840.000	977	0,98
THUNDERBOLT 1600 A**	1.600	960.000	1.116	1,12
THUNDERBOLT 1800 A**	1.800	1.080.000	1.256	1,26
THUNDERBOLT 2000A**	2.000	1.200.000	1.395	1,40
THUNDERBOLT 2500 A**	2.500	1.500.000	1.744	1,74
THUNDERBOLT 3000 A**	3.000	1.800.000	2.093	2,09
THUNDERBOLT 3500 A**	3.500	2.100.000	2.442	2,44
THUNDERBOLT 4000A**	4.000	2.400.000	2.791	2,79

* For higher capacity, please see our Volcano model.

Ekotek reserves the right to modify product specifications, dimensions, and visual representations due to ongoing production processes. Visuals are representative only; actual product color, dimensions, and accessories may differ.

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Thunderbolt Series - Semi-Cylindrical Solid Fuel Fired Steam Boiler

<https://www.ekotekkazan.com/product/thunderbolt-series-semi-cylindrical-solid-fuel-fired-steam-boiler>

About the Product

The high heating surface allows for the production of drier and higher energy steam. It offers comfortable and highly efficient combustion performance with low backpressure values. With its 3-pass design, it distributes the generated heat evenly across all surfaces, ensuring maximum heat transfer and fuel savings.

Detailed Description

The semi-cylindrical solid fuel-fired steam boiler, with its 3-pass design, distributes the generated heat evenly across all surfaces, ensuring maximum heat transfer and fuel savings. The fuel is fed from the bottom, allowing direct contact of the flame with the combustion chamber. Our boilers operate quietly, causing no noise pollution. The primary air sent by the fan ensures controlled and clean smokeless combustion.

Ekotek Heat Technologies' Thunderbolt Series solid fuel-fired steam boiler uses 5 types of safety systems:

- Steam Temperature,
- Mechanical Pressure,
- Digital Pressure,
- Safety Valve,
- Chimney Temperature Controls. Additionally, all safety systems, including boiler feed pumps, are provided in duplicate as a standard package.

The design and manufacturing upper pressure limit for semi-cylindrical steam boilers is set at 8 Bar; however, to meet customer expectations, the production capacity range can be increased to suit needs.

With optional features; PLC Touchscreen Control, Modbus RTU (Remote Terminal Unit RTU) gives you full control. Our boilers are designed for fuel with a minimum of 4,500 kcal/h (flame temperature 1200 C°). For using lower calorific value fuels, please contact our company.

The smoke tubes are welded to the mirror, providing safer and longer-lasting operation. Strong insulation with glass wool or rock wool prevents heat loss. Its elegant appearance ensures compatibility with its surroundings. Installation and maintenance are easy.