

VOLCANO SERIES

3.000 kg/h - 25.000 kg/h steam production capacity
Working pressure between 3 – 16 bar



- In our front furnace boilers, in order to provide sufficient heat transfer area for solid fuel combustion, a traditional 3-Pass Scotch Type Smoke/Flame Tube Steam Boiler is designed by adding a front furnace consisting of a water pipe bundle in front of it. Our boilers are designed for minimum 4.500 kcal/h (flame temperature 1200 C°) fuel. Please contact our company to burn lower calorie fuel.
- Blowdown and flanged cleaning are available in the lower collectors.
- While calculating the boiler heat load, the optimum heat load is given to the boiler heating surface area.
- Thanks to the pre-furnace addition, the combustion chamber completely eliminates the problem of not providing sufficient heat transfer surface in solid fuel applications compared to standard gas/liquid fuel boilers.
- Since the need for extra heating surface and combustion chamber is eliminated by the front furnace, solid fuel burning efficiency is much higher in 3-pass Scotch Type Boilers compared to solid fuel burning.
- If requested, automatic ash discharge and automatic lignite loading system can be added to our solid fuel boilers.
- Thanks to its large water and steam volume, it provides high performance in intense and continuous working conditions and sudden steam withdrawals.
- Thanks to its high heating surface area, it provides the opportunity to obtain drier and higher energy steam.
- We can manufacture movable Grate and rotating Grate Upon request,
- PLC control system can be added upon request.
- OUR COMPANY RECOMMENDS YOU TO USE AUTOMATIC BOTTOM BLOWdown AND SURFACE BLOWdown IN THE SYSTEM. (PACKAGE MANUAL BLOWERS ARE AVAILABLE IN THE SYSTEMS)
- Ekotek heat technologies designs different combustion systems specially for you. WE HAVE MANUFACTURING WITH STOCKER-HELIX, ROTARY GRATE AND PISTON MOVING GRATE.
- Ekotek Heating Technologies 5 types of safety systems are used in all steam boilers. All safety systems, including steam temperature, mechanical pressure, digital pressure, safety valve, chimney temperature controls, as well as boiler feeding pumps, are used in double standard packages.
- PLC control system can be added upon request.
- If you want to be in control, you should definitely see our optional options. Control your power with Ekotek technology. With optional options; Plc Touch screen controlled, Modbus RTU (Remote Terminal Unit Rtu) completely under your control.



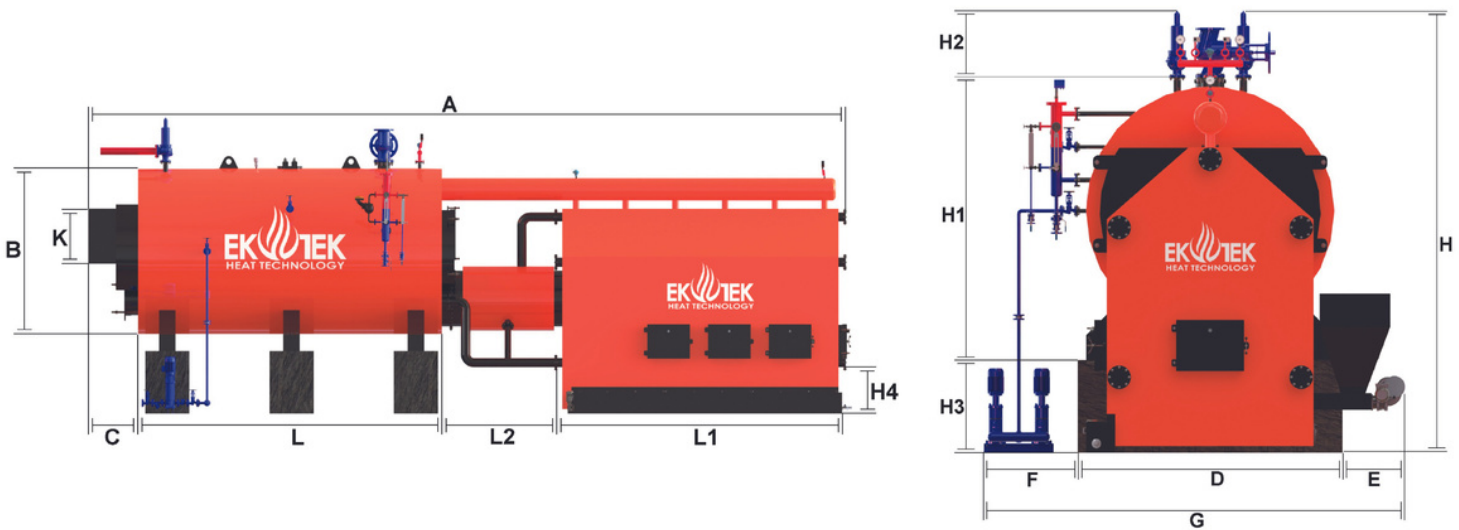
Min 2093 kW - Max 17442 kW

% 100 SAFE , USER-FRIENDLY

SOLID FUEL, FRONT FURNACE, HIGH PRESSURE STEAM BOILER



- Our products do not cause noise pollution with their silent operation.
- Air sent to the primary with the help of a fan; It provides a controlled and clean smokeless combustion.
- It is produced as corrugated furnace and combustion chamber according to the pressure values. The strength of the boiler and its resistance against thermal stresses have been increased in this way.
- Smoke pipes are welded with mirrors and provide safer and long-lasting operation.
- Heat loss is reduced thanks to strong insulation with glass wool or rock wool.
- With its stylish appearance, it is noticed with its compatibility in the environment it is in.
- Easy to install.
- Easy to Maintain.
- Upon request, our steam boilers can be delivered as a package with all accessories.
- For systems that burn pellets, powder fuel, wood chips, etc. for different fuel types, please contact us!



MODEL	CAPACITY					Dimensions														BOILER FLANGES					FUEL TANK CAPACITY		CONDENSATE TANK CAPACITY	INSULATION PROPERTIES	RECOM. MIN. CHIMNEY DIMENSIONS φ	APPROXIMATE WEIGHT
																				WATER VOLUME	STEAM OUTPUT	SAFETY	WATER INLET	BOTTOM BLOWDOWN	SURFACE BLOWDOWN	COAL				
BIRIM	M ³	KCAL/H	KW	MW	KG/H	A	B	C	D	G	H	H1	H2	H3	L	L1	L2	K	LT	DN	DN	DN	DN	DN	KG	KG	LT	MM	φMM	KG
VOLCANO 150A**	150	1.800.000	2093	2,09	3000	10950	1850	750	2100	4000	3900	2350	650	900	3760	5190	1250	750	12000	125	50/80	32	40	32	400	350	3000	150	750	15000
VOLCANO 175A**	175	2.100.000	2442	2,44	3500	11750	2150	800	2400	4300	4300	2750	650	900	4220	5480	1250	800	13250	150	50/80	32	40	32	400	350	3500	150	800	17500
VOLCANO 200A**	200	2.400.000	2791	2,79	4000	12500	2150	950	2400	4300	4650	2750	650	1250	4675	5375	1500	900	14000	150	50/80	32	40	32	400	350	4000	150	900	21000
VOLCANO 250A**	250	3.000.000	3488	3,49	5000	14000	2250	1000	2400	4300	4870	2900	720	1250	4675	6825	1500	1000	16500	200	65/100	32	40	32	400	350	5000	150	1000	24000
VOLCANO 300A**	300	3.600.000	4186	4,19	6000	14500	2450	1250	2700	4850	5070	2950	720	1400	5020	6230	2000	1100	17500	200	65/100	32	40	32	600	525	6000	150	1100	28000
VOLCANO 350A**	350	4.200.000	4884	4,88	7000	15250	2800	1250	3050	5200	5420	3250	720	1450	5250	6750	2000	1100	17500	200	80/125	32	40	32	600	525	6000	150	1100	28000
VOLCANO 400A**	400	4.800.000	5581	5,58	8000	16500	2850	1250	3100	5250	5670	3500	720	1450	5250	7500	2500	1200	19000	200	80/125	32	40	32	600	525	8000	150	1200	32000
VOLCANO 500A**	500	6.000.000	6977	6,98	10000	17500	3000	1750	3250	5400	6100	3650	800	1650	5600	7650	2500	1300	22000	250	80/125	32	40	32	600	525	10000	150	1300	36000
VOLCANO 600A**	600	7.200.000	8372	8,37	12000	23700	3050	2500	3300	5450	6200	3750	800	1650	5800	11900	3500	1500	25000	250	100/150	32	40	32	600	525	12000	150	1500	40000
VOLCANO 800A**	800	9.600.000	11163	11,16	16000	24750	3650	2750	3850	6100	6950	4350	800	1800	6300	12100	3500	1800	26500	300	100/150	32	40	32	800	700	16000	150	1800	43500
VOLCANO 1000A**	1000	12.000.000	13953	13,95	20000	25200	3800	2750	4000	6250	7100	4500	800	1800	6400	12450	3500	2100	28700	300	100/150	32	40	32	800	700	20000	150	2100	45700
VOLCANO 1250A**	1250	15.000.000	17442	17,44	25000	26750	4150	3000	4300	6550	7600	4850	800	1950	7900	12500	3500	2250	30000	300	125/200	32	40	32	800	700	25000	150	2250	48000

EKOTEK HEAT TECHNOLOGIES HAS THE RIGHT TO MAKE CHANGES IN DIMENSIONS, WEIGHTS AND MODELS WITHOUT NOTICE ACCORDING TO THE CHANGE IN STANDARDS, DESIGN, ETC.

NOTE: The recommended chimney diameter is calculated as an average of 400 m altitude. The diameter of the chimney is the minimum size and may vary.

THE DATA IN THE TABLE IS MADE BASED ON 8 BAR PRESSURE. DATA MAY VARY DEPENDING ON PRESSURE.

**DIMENSIONS MAY VARY DEPENDING ON THE PROJECT ON OUR ROTATING GRATE AND MOVING GRATE MODELS.