

HYBRID SERIES

1.000 kg/h - 25.000 kg/h steam production capacity
Working pressure between 3 – 25 bar

HIGH
CAPACITY
HIGH
EFFICIENCY



- Lignite coal, olive pomace, pellets, sawdust, SUNFLOWER SHELLS, HAZELNUT SHELLS, etc. HYBRID BOILER is formed by combining granular Water tube and Flame smoke tube boiler types in the same body.
- Water-tube primary furnace mounted on a rotary grate or stoker is manufactured at the required height as a result of detailed and precise calculations, and a large volume combustion chamber is formed on the rotary grate. Scotch type boiler with Flame Smoke tube and radiation heat boiler are connected to each other by water collector pipes.
- Large-volume combustion chamber is required to maximize flame length, flame radiation, gas and heat generated as a result of combustion in solid fuels.
- Second (secondary) module Flame smoke tube boiler has two passages and is designed to achieve maximum efficiency for the required capacity. The smoke volume, which decreases as the temperature decreases, is designed to pass through the boiler at the most appropriate speeds. By keeping the passageways of the flame long in the boiler, a large part of the heat energy resulting from the combustion remains in the boiler and steam has been used in production.
- Thanks to its larger steam volume, the system can instantly respond to peak steam drafts, and flash steam production is provided thanks to the water-tube primary furnace.
- Changing the pipes of the fire smoke tube boiler; The front and back covers can be opened and changes can be made very easily.
- Since the Hybrid Steam boiler fully reflects all the calories of the burning fuel to the steam production process, it is possible to obtain the maximum fuel value and convert it to steam.
- You can use our Hybrid Steam Boiler with a variable efficiency of approximately 82% depending on the fuel type.
- 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.
- Since the extra heating surface is completed with a water and flame pipe system, the solid fuel burning efficiency is much higher in 3-Pass Scotch Type Boilers compared to solid fuel burning.
- Thanks to its large water and steam volume, it provides high performance in intense and continuous working conditions and sudden steam withdrawals.
- The water and flame tube system provides the opportunity to obtain drier and higher energy steam with its surface area.
- If requested, automatic ash discharge, automatic lignite loading and transfer system can be added to our solid fuel boilers.



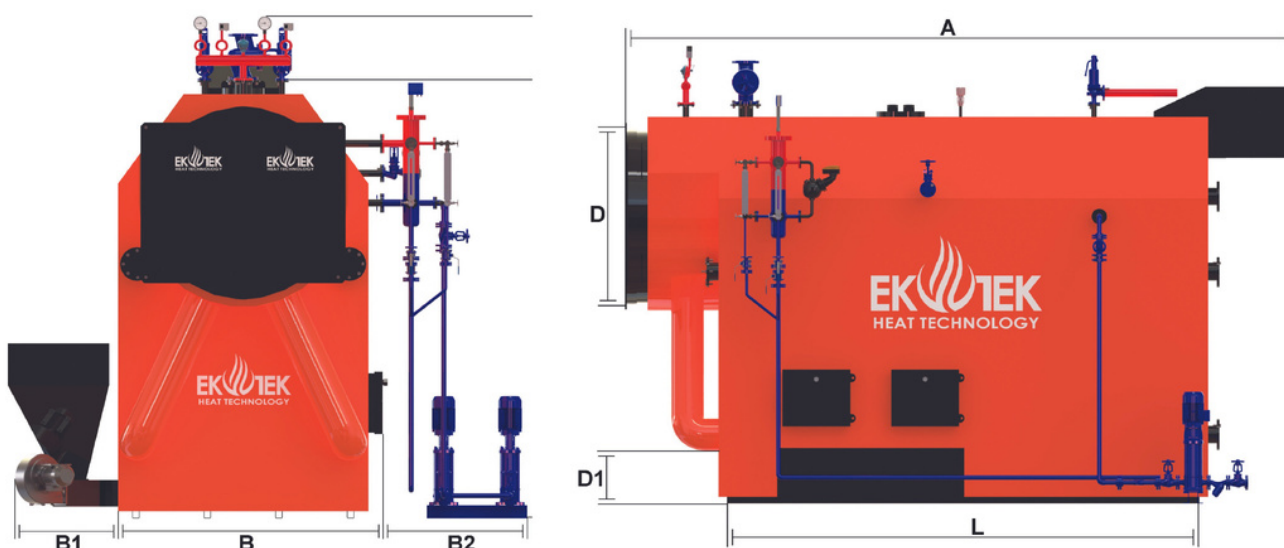
Min 698 kW - Max 17442 kW

% 100 SAFE , USER-FRIENDLY

SOLID FUEL 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 much more efficient and long lasting by meeting other boiler designs and also Ekotek Quality.
- According to the pressure values. It has been produced in accordance with 12952-3, 12953-2 Standard and 2014/68/EU Pressure Vessels directive and has CE certificate.
- 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										WATER VOLUME	BOILER FLANGES					FUEL TANK CAPACITY		SMOKE TUBE	INSULATION PROPERTIES	RECOM. MIN. CHIMNEY DIMENSIONS ø	APPROXIMATE WEIGHT	
																	STEAM OUTPUT	SAFETY	WATER INLET	BOTTOM BLOWDOWN	SAFETY BLOWDOWN	COAL	OLIVE					MIN. TANK CAPACITY
HIBRIT 50*	50	600.000	698	0,70	1000	4270	1650	850	1100	1370	500	3300	520	500	3600	3180	80	25/40	32	40	32	150	125	1000	76,1	150	500	7600
HIBRIT 60*	60	720.000	837	0,84	1200	4350	1770	850	1100	1450	500	3450	520	550	3700	3970	100	32/50	32	40	32	150	125	1500	76,1	150	550	8250
HIBRIT 80*	80	960.000	1116	1,12	1600	4500	1850	850	1100	1580	500	3580	520	550	3850	4530	100	32/50	32	40	32	150	125	2000	76,1	150	600	9750
HIBRIT 100*	100	1.200.000	1395	1,40	2000	4550	1850	850	1100	1580	550	3750	520	600	4200	5250	100	40/65	32	40	32	150	125	2000	76,1	150	600	12350
HIBRID 125*	125	1.500.000	1744	1,74	2500	4750	2000	850	1100	1670	550	3850	520	700	4320	5870	125	50/80	32	40	32	150	125	2500	76,1	150	700	14200
HIBRIT 150*	150	1.800.000	2093	2,09	3000	4900	2100	850	1100	1750	550	3950	520	700	4450	6513	125	50/80	32	40	32	200	175	3000	76,1	150	700	17560
HIBRIT 200*	200	2.400.000	2791	2,79	4000	5150	2350	850	1100	2000	600	4000	520	800	4650	7350	150	50/80	32	40	32	200	175	4000	76,1	150	800	19100
HIBRIT 250*	250	3.000.000	3488	3,49	5000	5400	2550	850	1100	2200	600	4100	550	900	4800	8920	200	65/100	32	40	32	200	175	5000	76,1	150	900	21750
HIBRIT 300**	300	3.600.000	4186	4,19	6000	5600	2650	1000	1100	2300	600	4250	550	1000	5200	10750	200	65/100	32	40	32	200	175	6000	76,1	150	1000	24300
HIBRIT 350**	350	4.200.000	4884	4,88	7000	5650	2750	1000	1100	2400	650	4400	550	1100	5500	11300	200	80/125	32	40	32	200	175	7000	76,1	150	1100	26750
HIBRIT 400**	400	4.800.000	5581	5,58	8000	5750	2850	1000	1100	2500	650	4500	550	1100	5650	11950	200	80/125	32	40	32	200	175	8000	76,1	150	1100	29250
HIBRIT 500**	500	6.000.000	6977	6,98	10000	5900	3050	1000	1100	2700	650	4950	600	1200	5750	13500	250	80/125	32	40	32	200	175	10000	76,1	150	1200	31700
HIBRIT 600**	600	7.200.000	8372	8,37	12000	6400	3300	1000	1100	2950	650	5350	600	1300	5900	15870	250	100/150	32	40	32	200	175	12000	76,1	150	1300	34600
HIBRIT 750**	750	9.000.000	10465	10,47	15000	6750	3450	1000	1100	3100	700	5900	600	1500	6000	17600	300	100/150	32	40	32	200	175	15000	76,1	150	1500	37300
HIBRIT 900**	900	10.800.000	12558	12,56	18000	6950	3600	1000	1100	3250	700	6100	600	1700	6000	18400	300	100/150	32	40	32	400	350	18000	76,1	150	1700	38500
HIBRIT 1000**	1000	12.000.000	13953	13,95	20000	7100	3850	1000	1100	3500	700	6450	600	1800	6000	21600	300	100/150	32	40	32	400	350	20000	76,1	150	1800	41370
HIBRIT 1250**	1250	15.000.000	17442	17,44	25000	7500	4150	1000	1100	3800	700	6700	600	2100	6000	23800	300	125/200	32	40	32	400	350	25000	76,1	150	2100	49520

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.