

# THE GRIM SERIES

160 kg/h-5.600 kg/h steam production capacity  
Working pressure between 3 - 16 bar

HIGH  
CAPACITY  
HIGH  
EFFICIENCY



- LIGNITE COAL, PAIN, PELLET, SUNFLOWER SHELLS, HAZELNUT SHELLS, etc. It can burn granular fuels with high efficiency and its use is facilitated by automatic loading.
- If requested, an economizer can be added to the flue gas outlet in order to benefit from the heat of the flue gases. The economizer to be mounted at the back of the boiler allows the condensate water entering the boiler to be heated and returned to the boiler. Thus, fuel savings are achieved.
- It has the flexibility to work in harmony with different combustion systems.
- Our boilers are designed for minimum 4.500 kcal/h (flame temperature 1200 C°) fuel. Please contact our company to burn lower calorie fuel.
- 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.
- 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) is completely under your control.
- Thanks to its high heating surface, it provides the opportunity to obtain drier and higher energy steam.
- Thanks to its large water and steam volume, it provides high performance in intense and continuous working conditions and in sudden steam draws.
- WE RECOMMEND USING A DEGASER IN BOILER WORKING PRESSURE 8 BAR AND OVER.
- OUR COMPANY RECOMMENDS YOU TO USE AUTOMATIC DIB BLOWdown AND SURFACE BLOWdown IN THE SYSTEM. (MANUAL BLUFFS ARE AVAILABLE IN PACKAGE SYSTEMS)
- It offers comfortable and highly efficient combustion performance with its low counter pressure values.
- Scotch type 3-pass boilers have received the title of the longest-lasting and efficient boiler with their superior designs accepted all over the world.
- Fuel supply is from the bottom and direct contact of the flame with the combustion chamber is provided.
- Fan assist and primary air; It provides a controlled and clean smokeless combustion.

**% 100 SAFE , USER-FRIENDLY**

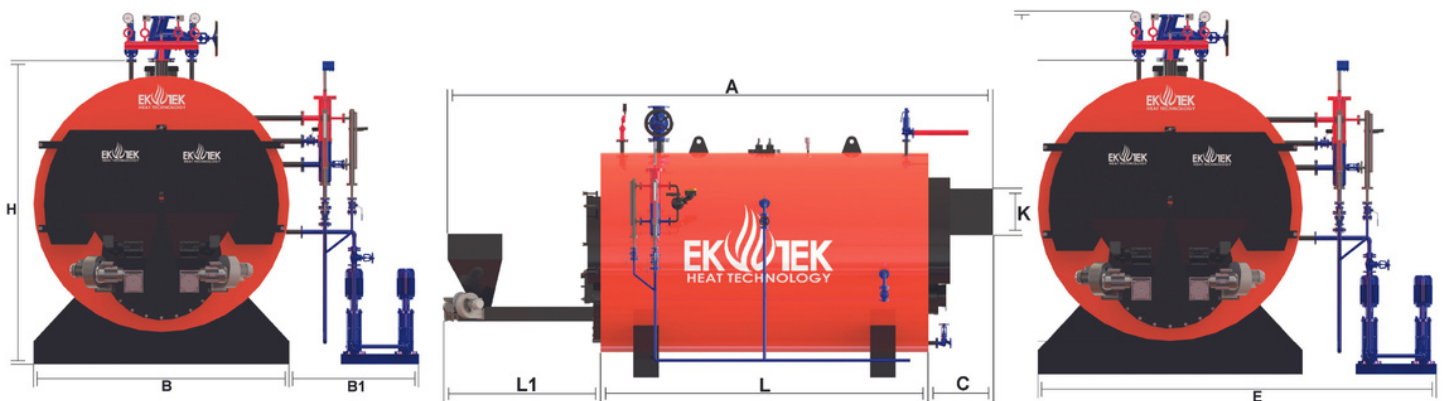


**Min 112 kW - Max 3907 kW**

# SOLID FUEL, THREE PASS, SCOTCH TYPE HIGH PRESSURE STEAM BOILERS



- Our boilers do not cause noise pollution with their silent operation.
- 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 prevented thanks to strong insulation with glass wool and rock wool.
- With its stylish appearance, it is noticed with its compatibility in the environment it is in.
- Easy to install.
- Easy to Maintain.
- There is no risk of explosion.
- 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		MIN. CONDENSATE TANK CAPACITY	COUNTER-PRESSURE	SMOKE TUBE	INSULATION PROPERTIES	RECOM. MIN. DIMENSIONS &		APPROXIMATE WEIGHT
																				STEAM OUTPUT	SAFETY	WATER INLET	BOTTOM BLOWDOWN	SURFACE BLOWDOWN	COAL	OLIVE PUMPHOUSE					MBAR	øMM	
BIRIM	M <sup>3</sup>	KCAL/H	KW	MW	KG/H	A	B	B1	C	D	E	H	H1	H2	K	L	L1	LT	DN	DN	DN	DN	DN	KG	KG	LT	MBAR	øMM	MM	øMM	KG		
GRIM 10A	10	96.000	112	0,11	160	3650	1070	1200	600	1270	2270	1650	300	550	225	1700	1350	920	32	25/40	32	40	32	150	125	160	4,5	76,1	100	225	2000		
GRIM 15A	15	144.000	167	0,17	240	4100	1250	1200	600	1450	2450	1860	300	550	250	1900	1600	1400	40	25/40	32	40	32	150	125	240	5	76,1	100	250	2400		
GRIM 20A	20	192.000	223	0,22	320	4400	1410	1200	600	1610	2610	2010	300	550	300	2050	1750	2000	50	25/40	32	40	32	150	125	320	5	76,1	100	300	2800		
GRIM 25A	25	240.000	279	0,28	400	4470	1410	1200	600	1610	2610	2010	300	550	350	2120	1750	2500	50	25/40	32	40	32	150	125	400	5	76,1	100	350	3300		
GRIM 30A	30	288.000	335	0,33	480	4650	1470	1200	600	1670	2670	2070	300	550	350	2300	1750	2750	65	25/40	32	40	32	200	175	480	5	76,1	100	350	4000		
GRIM 40A	40	384.000	447	0,45	640	5100	1720	1200	600	1920	2920	2250	300	550	450	2500	2000	2950	65	25/40	32	40	32	200	175	640	6,7	76,1	100	450	5000		
GRIM 50A	50	480.000	558	0,56	800	5600	1900	1200	750	2100	3100	2450	300	550	450	2850	2000	3800	65	25/40	32	40	32	200	175	800	7	76,1	100	450	6200		
GRIM 60A	60	576.000	670	0,67	960	6150	2050	1200	750	2250	3250	2620	300	550	500	3400	2000	4300	80	25/40	32	40	32	200	175	960	8	76,1	100	500	6500		
GRIM 70A**	70	672.000	781	0,78	1120	6500	2150	1200	750	2350	3350	3060	300	550	550	3500	2250	5500	80	32/50	32	40	32	200	175	1120	8	76,1	100	550	7200		
GRIM 80A**	80	768.000	893	0,89	1280	6550	2250	1200	750	2450	3450	3100	300	550	550	3550	2250	6100	100	32/50	32	40	32	200	175	1280	8	76,1	100	550	8000		
GRIM 90A**	90	864.000	1005	1,00	1440	6550	2450	1200	750	2650	3650	3150	300	550	600	3250	2500	6730	100	32/50	32	40	32	200	175	1440	8	76,1	100	600	8750		
GRIM 100A**	100	960.000	1116	1,12	1600	6750	2550	1200	750	2750	3750	3400	300	550	600	3500	2500	7300	100	32/50	32	40	32	400	350	1600	8	76,1	100	600	9500		
GRIM 125A**	125	1.200.000	1395	1,40	2000	7250	2600	1200	750	2800	3800	3400	300	550	650	4000	2500	8000	125	40/65	32	40	32	400	350	2000	8	76,1	100	650	11000		
GRIM 150A**	150	1.440.000	1674	1,67	2400	7750	2670	1200	850	2870	3870	3600	300	550	700	4250	2750	11000	125	50/80	32	40	32	400	350	2400	8	76,1	100	700	12500		
GRIM 175A**	175	1.680.000	1953	1,95	2800	8400	2700	1200	850	2900	3900	3600	300	550	750	4700	2900	12750	125	50/80	32	40	32	400	350	2800	8	76,1	100	750	13250		
GRIM 200A**	200	1.920.000	2233	2,23	3200	8650	2800	1200	850	3000	4000	3600	300	550	800	4900	2900	13200	150	50/80	32	40	32	400	350	3200	8	76,1	100	800	14500		
GRIM 250A**	250	2.400.000	2791	2,79	4000	9200	2800	1200	850	3000	4000	3600	300	600	900	5450	2900	14500	150	65/100	32	40	32	400	350	4000	9	76,1	100	900	15000		
GRIM 300A**	300	2.880.000	3349	3,35	4800	9800	3020	1200	850	3220	4250	3850	300	600	1000	6050	2900	15700	200	65/100	32	40	32	400	350	4800	9	76,1	100	1000	16350		
GRIM 320A**	320	3.072.000	3572	3,57	5120	10000	3100	1200	900	3300	4300	3900	300	600	1000	6500	2900	16750	200	65/100	32	40	32	400	350	5120	9	76,1	100	1000	17350		
GRIM 350A**	350	3.360.000	3907	3,91	5600	10250	3150	1200	900	3350	4350	3950	300	600	1100	6600	2900	17890	200	65/100	32	40	32	400	350	5600	9	76,1	100	1100	18600		

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.