

RENEWABLE ENERGY CONSULTANTS, LLC

Distributor of SIM / EKO-TECH BOILERS

EKO-TECH PELLET



BOILER CONTROLLER

PELLET BURNER

WOOD PELLETS

5 YEARS 5 YEAR HEAT EXCHANGER WARRANTY
2 YEAR GENERAL EQUIPMENT WARRANTY

FEATURES

-  CAST IRON ACCESS DOOR
-  AUTOMATED FUEL CONTROL
-  EASY OPERATION
-  BACK-FIRE PREVENTION
-  HIGH COMBUSTION EFFICIENCY UP TO 89%
-  MULTI-FUEL SYSTEM

P.O. Box 41
Beavertown, PA 17813
570-765-2020 / rec2@ptd.net

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Parameters		Specifications							
1	Boiler Capacity - kW	kW	50	75	100	150	200	285	
2	Boiler Capacity - Btu/Hr	Btu	170,000	255,000	340,000	512,000	682,000	972,000	
3	Heat Exchanger Area	Ft ²	53.0	82.0	110.0	144.0	163.0	226.0	
4	Water Capacity	USG	42.8	52.8	84.5	123.0	160.0	171.0	
5	Boiler Combustion Efficiency	%	86.5						
6	Maximum Water Temperature	deg F	185						
7	Fuel Storage Capacity	lbs	430	690	1000	1100	1400	1500	
8	Fuel Capacity - approx. burn time	Hrs	22.0	22.0	24.0	21.0	23.0	18.5	
9	Voltage	V	230	230	230	230	230	230	
10	Exhaust Duct Dimensions	Inch	8.2x8.2	8.2x8.2	11.2x10.0	11.2x10.0	12.0x11.2	13.5x12.8	
11	Chimney Diameter - recommended	Inch	9.0	11.0	12.0	13.0	14.0	16.0	
12	Required Chimney Draft	Pa	34.0	38.0	40.0	42.0	45.0	47.0	
13	Dimensions of System	Width	Inch	44.0	56.0	63.5	63.5	84.5	84.5
		Depth	Inch	51.0	53.0	62.0	67.0	75.5	79.5
		Height	Inch	58.5	58.5	64.0	64.0	66.0	66.0
14	System Weight	lbs	1764	2200	3750	4100	4650	5800	

NET OUTPUT OF THE BOILER IS DEPENDENT ON THE WOOD PELLET FUEL USED, AND THEIR CALORIFIC VALUE

LARGER UNITS ARE AVAILABLE



IMPROVED HEAT EXCHANGER DESIGN



AUTOMATED AND MANUAL OPERATION CAPABILITIES



CONTROLLER CAPABLE OF ROOM-THERMOSTAT INTEGRATION



CAST IRON STOKER DOOR



CONTROLLER CAPABLE OF CONTROLLING UP TO TWO PUMPS

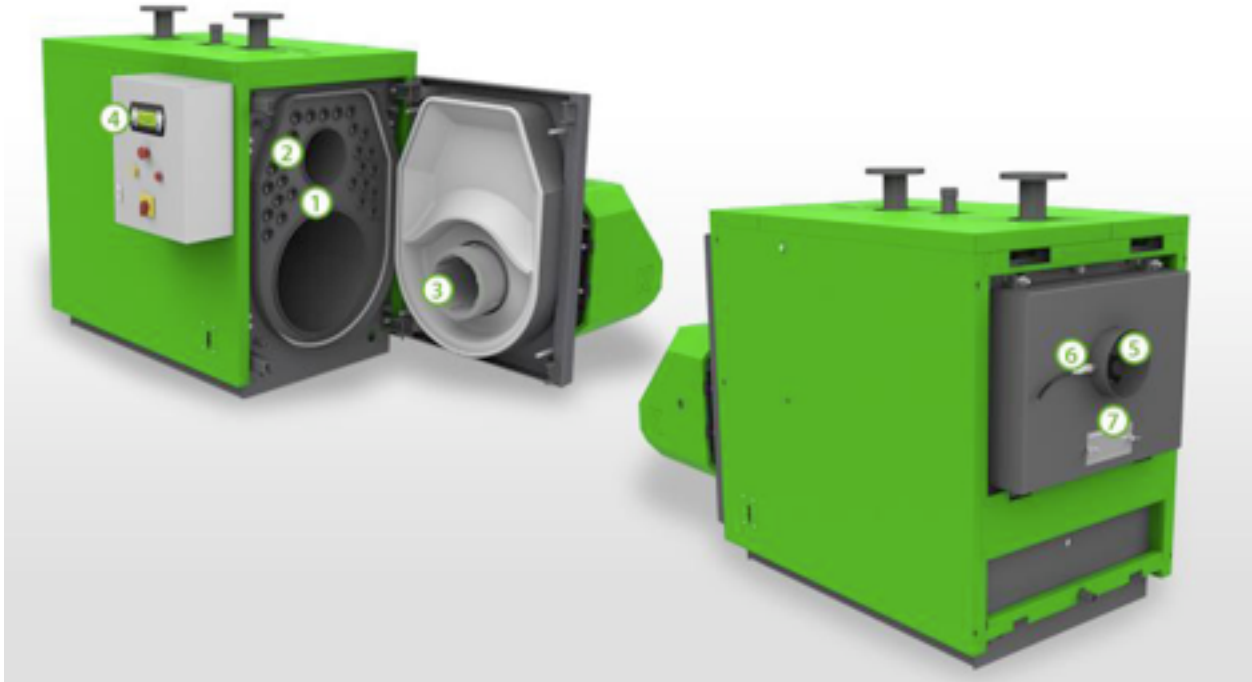


AUTOMATED FUEL FEED RATE

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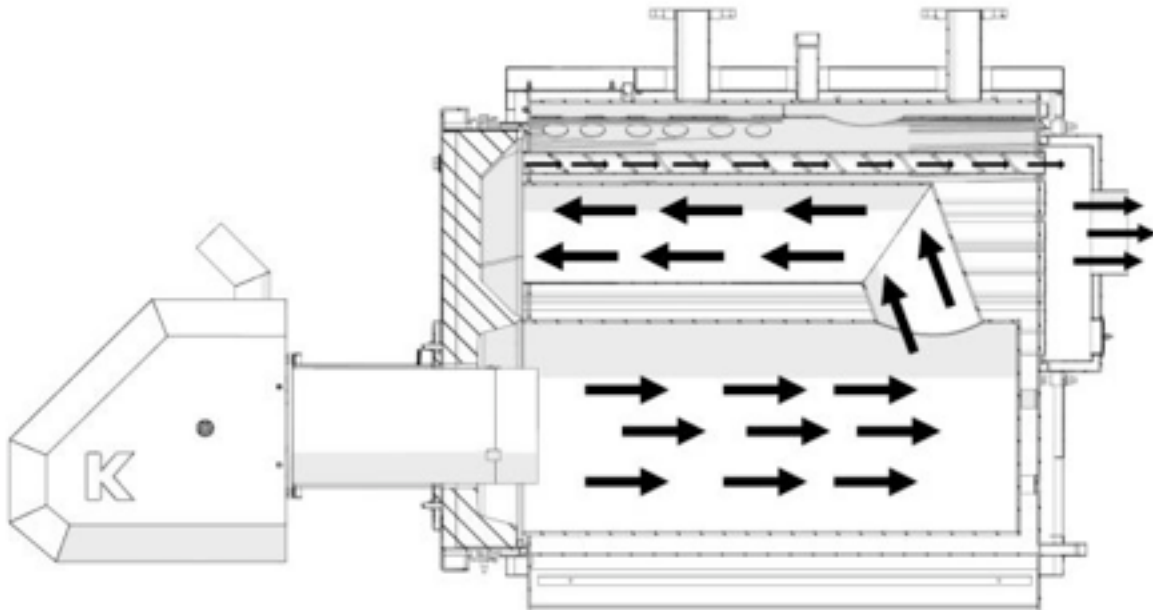


1. 3-Pass boiler – constructed from high quality boiler plate
2. Boiler tubes
3. Platinum Eko – self-cleaning pellet burner with automated ignition
4. Control Panel – industrial quality with full modulation Fuzzy Logic controller
5. Chimney exhaust
6. Lambda sensor – assures the most efficient wood pellets combustion
7. Fly ash cleaning port access

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Additional Features

- Counter-Flow flue gas configuration – assures optimum heat transfer efficiencies
- Automatic wood pellets ignition system – eliminates operational maintenance
- Minimum 3” High Temperature insulation – reduces boiler heat losses
- Low electrical energy consumption – additional cost savings

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