

# RENEWABLE ENERGY CONSULTANTS, LLC

Distributor of SIM / EKO-TECH BOILERS

## EKO-TECH PELLET



BOILER  
CONTROLLER



PELLET  
BURNER



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

WOOD  
PELLETS



### 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](mailto:rec2@ptd.net)

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TECHNICAL INFORMATION									
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 <sup>2</sup>	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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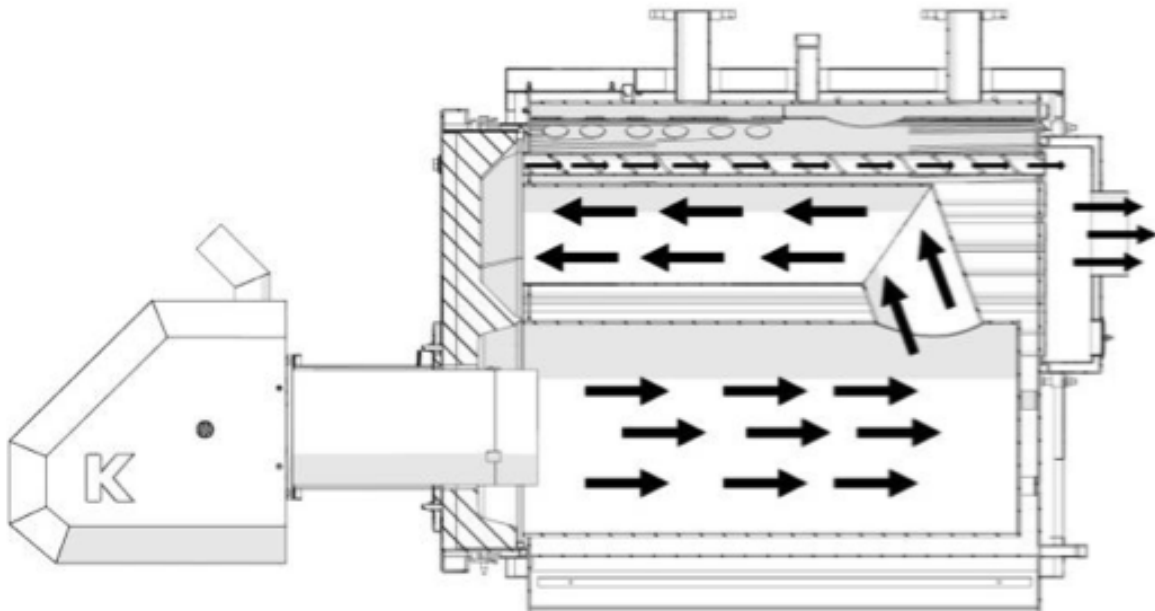


1. 3-Pass boiler - constructed from high quality boiler plate
2. Boiler tubes
3. Platinum Eko – self-cleaning pellet burner with automated ignition
4. Control Panel – industrial quality with full modulation Fuzzy Logic controller
5. Chimney exhaust
6. Lambda sensor – assures the most efficient wood pellets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