

Pellet boilers "BLACK STAR"

Fuel: Wood pellet with ¼" diameter

Output: 2 – 40 kW

Advantages of wood pellet boilers BLACK STAR:

- High efficiency up to 93 %
- Fully automatic operation
- Affordable and eco-friendly operation
- Easy operation and maintenance
- PC control capable
- Left or right connection for the burner
- Stainless steel burner
- Automatic ignition
- Feeder length up to 10ft
- Low electric power consumption
- Modern and dynamic design
- Small size and low weight
- Wide output range - 10 kW, 20 kW, 30 kW and 40 kW
- Wide range of hopper capacities



Pellet boilers "WOODY"

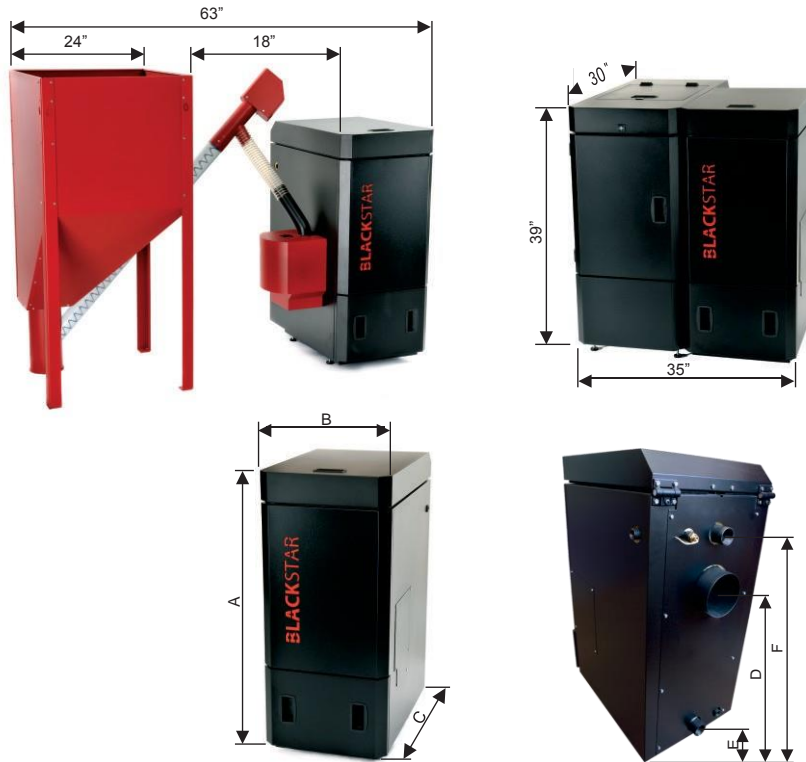
Fuel: Wood pellet with ¼" diameter

Output: 4 – 80 kW

Advantages of wood pellet boilers WOODY:

- High efficiency up to 94 %
- Fully automatic operation
- Affordable and eco-friendly operation
- Easy operation and maintenance
- PC control capable
- Left or right connection for the burner
- Stainless steel burner
- Automatic ignition
- Feeder length up to 10ft
- Low electric power consumption
- Modern and dynamic design
- Heat exchanger with ¼" wall thickness
- Possibility of cascade connection
- Wide output range - 16 kW, 24 kW, 30 kW, 60 kW, 80 kW
- Wide range of hopper capacities





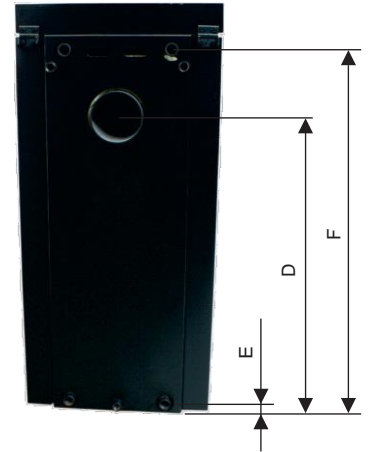
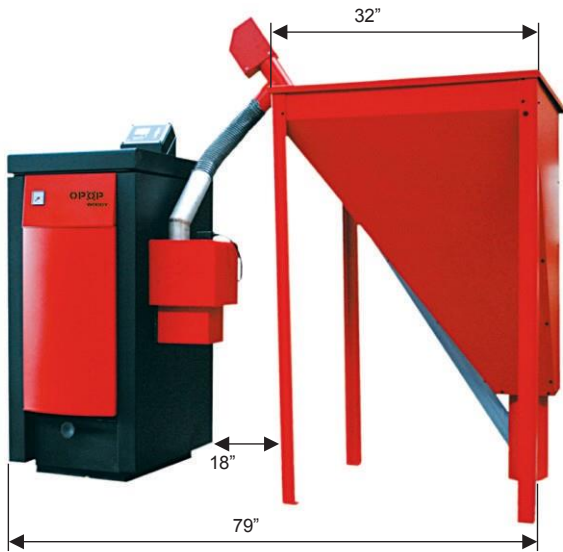
Technical parameters					
Boiler type		Black Star 10	Black Star 20	Black Star 30	Black Star 40
Nominal output	kW	10	20	30	40
Minimal output	kW	2			
Fuel size		1/4" diameter wood pellets			
Average fuel consumption	lb/h	1.17-4.14	1.74-7.1	3.53-12.4	5.51-19.62
Efficiency	%	91	93	92	92
Water volume	gal	10	10	12	20
Operating chimney draft	InWC	.06-.08			
Maximum working water pressure	Bar	2			
Maximum heating water temperature	°F	190			
Maximum return water temperature	°F	145			
Maximum electric power/voltage	W/V	50/220	50/220	50/220	60/220
Weight	Lb	400	400	510	340
A Height	In	39	39	39	43
B Width	In	17	17	21	26
C Depth	In	29	29	32	36
D Position of smoke flue	In	25	25	25	29
E Position of input water socket	In	4	4	4	4
F Position of output water socket	In	32	32	32	36
Connecting sockets	DN	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Flue diameter	In	5	5	6	6



pellet



Pellet boilers "WOODY"
Technical Data



Technical parameters						
Boiler type		Woody 16	Woody 24	Woody 30	Woody 60	Woody 80
Maximum output	kW	16	24	30	60	80
Minimal output	kW		4		10 % of burner output	
Fuel size		1/4" diameter wood pellets				
Efficiency	%	94	94	90	92	93
Average fuel consumption	Lb/hr	5.5	5.5	6.7	14.3	17.6
Water volume	Gal	13	13	13	25	35
Operating chimney draft	InWC	.04-.06				
Maximum working water pressure	bar	2				
Maximum heating water temperature	°F	190				
Minimum return water temperature	°F	145				
Maximum electric power/voltage	W/V	50/220		60/220		160/220
Weight	Lb		510		850	1060
Dimensions						
A Height	In		46		50	50
B Width	In		21		26	30
C Depth	In		30		36	40
D Position of smoke flue	In		35		40	40
E Position of input water socket	In		11		11	12
F Position of output water socket	In		41		42	46
Connecting sockets	DN		3/4"		1"	1-1/4"
Flue diameter	In		5		6	7



pellet



Pellet burners

Fuel: Wood pellet with ¼" diameter

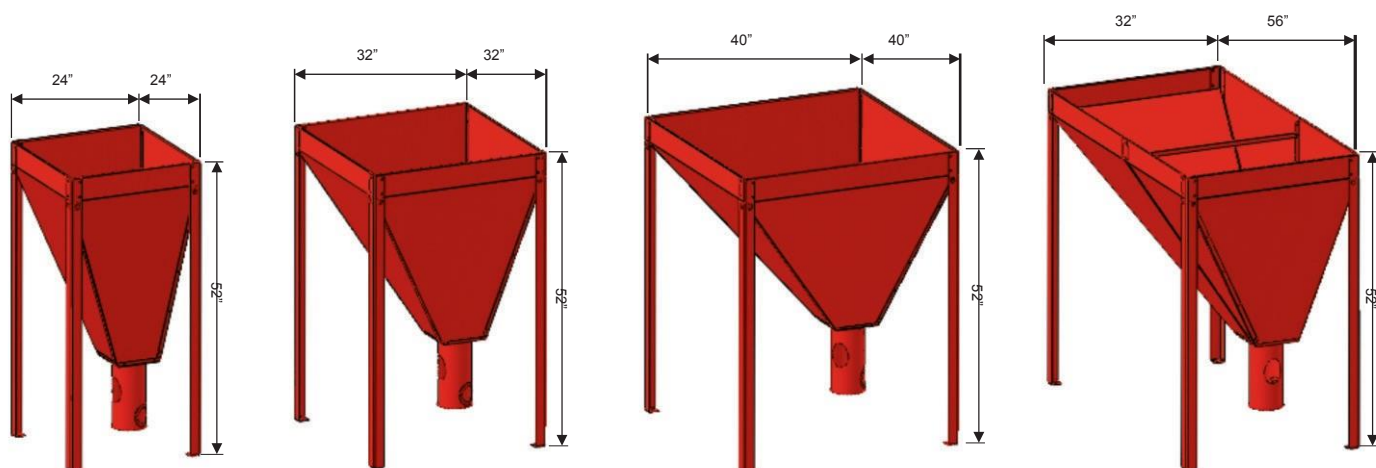
Output: 4 - 200 kW

Advantages of pellet burners:

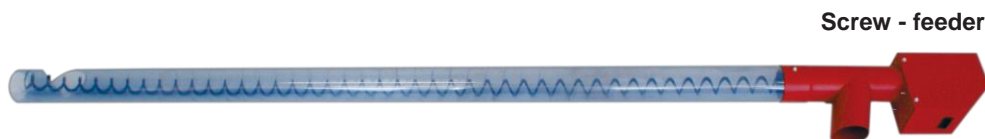
- Output range 4-200kW
- High efficiency up to 94 %
- Fully automatic system
- Made from stainless steel
- Automatic ignition
- Low electric power consumption



Hopper parameters		24"x24"x52"	32"x32"x52"	40"x40"x52"	56"x32"x52"
Pellets volume	Lb	243	485	662	772
Weight	Lb	55	64	77	84



Screw - feeder parameters		
Length	Lb	79-118
Diameter	In	3
Slope Angle	°	50
Weight	Lb	15-27



Additional accessories for pellet boilers

1. Vacuum feeder

- It is used to transfer pellets over a longer distance. This unit operates on its own based on the user setting in the boiler control unit. The pellets are transported to a hopper from an external container and then supplied to the burner.



2. Lambda probe

- It serves to maintain the best amount of air for combustion. It optimizes the combustion process in the case of varying chimney draft and quality of pellets. The main parts are: lambda oxygen probe, electrical circuit board and connecting cables.



3. Compressor

- You can use the compressor for complete cleaning of the burner grate. The compressor is controlled from the boiler control unit, so it is possible to provide automatic operation of the compressor without requiring a manual start by the user.



4. Flue gas temperature sensor

- It reads the temperature of the flue in the chimney. Making it possible to ensure that the maximum heat generated by boiler is used and minimum amount of heat is escaping through the chimney. Once you read the flue gas temperature you can achieve the best result through the optimization of the burner operation.



5. 3 Way valve

- It is used to heat the hot water in the boiler. It is possible to engage in the boiler control unit. This valve is necessary to connect temperature sensor, which senses the return water temperature.



6. Wireless room thermostat

- You can plug it into the boiler control unit. Instructs the boiler to turn on/off based on the temperature in the room.



7. Temperature sensor 8' and 49'

- These sensors can be used for domestic water temperature, inlet and outlet water from the boiler, and the outdoor temperature reading.

