











COMFORT AND MODERNITY Modern Heating Equipment

PELLET AND WOOD BURNING

n lazar

BOILERS

www.hkslazar.pl

Der + (m)

HOLZ

Lambda probe

An advanced logarithm controls the operation of the boiler adapting it to current conditions which ensures the highest efficiency at the full power range. This guarantees savings, a clean exchanger and simple regulation.



Weather control

An advanced controller monitors operation of the boiler and the entire boiler plant including pumps, valves, buffer, boiler and an additional boiler. This ensures that all devices form an integrated system guaranteeing maintenance of optimal parameters.



BAFA

The boiler is on the German BAFA list thanks to its low emission and high efficiency.

Environmentally friendly

All boilers are laboratory tested in a testing unit with EU accreditation and attain the highest emission and efficiency parameters.

Sluice

Safet

The best protection against back-fire into the fuel tank.



Stainless steel

The first-class materials used in the production of the burner guarantee its long-term durability and excellent performance.



Touch-pad panel

An advanced driver from an intuitive touch panel, variable weather settings over a one week programme. This helps to adjust the boiler's operation to the individual needs of the User.



Mechanical Cleaning of the Burner

The burner is systematically subjected to automatic cleaning for optimal combustion thus relieving the user of tedium..!

Hydraulic Equipment

The boiler is equipped with a hydraulic kit so its installation is quick and does not take up any space in the boiler room.

Automatic fire-alarm, automatic cleaning of the burner, automatic cleaning of the heat exchanger.

Ease of use, perfect combustion, high efficiency and visible savings are guaranteed by automation of operation.

Automatic Cleaning

Steel cleaning brushes, located in the heat exchanger, clean the surface; this increases the efficiency of the boiler. In addition, they cause turbulence in the exhaust gases which raises the level of heat transfer.

Vacum

With the VACUM pneumatic pellet transport system, pellets are automatically fed from the larger fuel tank into the boiler; this makes the boiler's operation even simpler.

Compact Design

The boiler's small dimensions allow it to fit into most boiler rooms.

Internet

Through the internal network or the external econet24.com server, we can monitor the current parameters of the boiler and the hydraulic system and can change most of the user and service settings. This gives us an historical perspective of the most important parameters and alarms. We are able to receive email messages

regarding alarms. The controller can be connected via cable or WiFi



Pellet Boilers

SMART FIRE 11

Highly Efficient Pellet Boiler, Compact in Design, Modern in Style.





PARAMETER:	UNIT:	SF 11:
thermal efficiency	%	91.1%
rating power	kW	10.2
power range	kW	3.0 ÷ 10.2
width (type of fuel tank - width)	mm	165 L - 535
height (type of fuel tank - height)	mm	165 L - 1660
depth (type of fuel tank - depth)	mm	165 L - 845
water capacity	dm ³	34
diameter of the exhaust gas outlet ext. / int.	mm	101/93
recommended chimney diameter	mm	100 ÷ 110
required chimney draught	Pa / mbar	1 ÷ 5 / 0.01 ÷ 0.05
flow and return connection	inch	1
maximum operating pressure * - depending on the model	bar	1.5 / 3.0 *
average temperature of the exhaust gas at maximum power	٥C	125
average temperature of exhaust gases at minimum power	۰C	60
maximum recommended temperature of the exhaust gas	۰C	180
maximum temperature of the exhaust gas	۰C	85
recommended boiler temperature	۰C	65 ÷ 80
minimum temperature 'of' return water	۰C	55
fuel tank capacity	dm ³	165







91.1% Thermal Efficiency!



Pellet Boilers

SMART FIRE 15/22/41

Dlazar

GE

Highly Efficient Pellet Boiler with Automatic Operation and Modern, Convenient Control.











92-90% Thermal Efficiency!



Pellet Boilers

SMART FIRE 69/81

Highly Efficient Pellet Boiler with Automatic Operation and Modern, Convenient Control.



fuel tank capacity



PARAMETER:	UNIT:	SF 69:	SF 81:
thermal efficiency	%	92.5%	91.5%
rating power	kW	69	81
power range	kW	20.7 ÷ 69.0	24.3 ÷ 81.0
width (type of fuel tank - width)	mm	300 L - 1300	300 L - 1300
height (type of fuel tank - height)	mm	300 L - 1980	300 L - 1980
depth (type of fuel tank - depth)	mm	300 L - 1560	300 L - 1560
water capacity	dm ³	290	285
diameter of the exhaust gas outlet ext. / int.	mm	200/190	200/190
recommended chimney diameter	mm	200	200
required chimney draught	Pa / mbar	10 ÷ 20 / 0.1 ÷ 0.2	10 ÷ 20 / 0.1 ÷ 0.2
flow and return connection	inch	11⁄4	11⁄4
maximum operating pressure * - depending on the model average temperature of the exhaust gas at maximum power average temperature of exhaust gases at minimum power the maximum recommended temperature of the exhaust gas	bar	1.5 / 3.0 *	1.5 / 3.0 *
	٥C	95	110
	٥C	70	70
	٥C	180	180
the maximum temperature of the exhaust gas	°C	85	85
recommended boiler temperature	٥C	65 ÷ 80	65 ÷ 80
minimum temperature of return water	٥C	55	55
fuel tank canacity	dm ³	300	300

300

300









92.5-91.5% Thermal Efficiency!



Wood-fired Boilers

HOLZ MASTER

Highly Efficient Wood Boiler with Modern and Convenient Control.

Mazar •





UNIT:

	-
thermal efficiency	%
rating power	kW
fuel consumption at rated power	kg/h
width	mm
height	mm
depth	mm
diameter of the exhaust gas outlet ext. / int.	mm
flow and return connection	inch
maximum operating pressure * - depending on the model	bar
required chimney draught	Ра
the maximum temperature of the exhaust gas	
average temperature of the exhaust gas at nominal power	٥C
recommended boiler temperature	٥C
noise level	dB

HM 20:
90.7%
20
~ 5.5
770
1565
1075
160/150
1¼
1.5 / 3.0 *
5 ÷ 15 / ÷ 0.05 0.15
80
140
70 ÷ 80
below 75





Pellet Boilers •

FOCUS PELLET

Highly Efficient Pellet Boiler. Fitted to Customer Specifications.



minimum temperature of return water

fuel tank capacity

55

٥C

dm³

270/300/400/500/900/1480





Modern Pellet Boilers with Ease of Control.





PARAMETER:	UNIT:
thermal efficiency	%
rating power	kW
power range	kW
fuel consumption at rated power	kg/h
width	mm
height	mm
depth	mm
ext. diameter of the exhaust gas outlet	Mm
average temperature of the exhaust gas for nominal output	۰C
average temperature of the exhaust gas at reduced power	۰C
exhaust gas mass flow at nominal power	g/s
CO emission at nominal power (for 13% O2)	mg/m ³
chimney draught required	Pa / mbar
noise level	dB
supply voltage	
electrical insulation	
power consumption - ventilators + gear motor	W
power consumption - igniter	W
ambient temperature range	٥C
ambient humidity range	%

COSTA:
85.5
7.5
4 - 7.5
about 1.8
500
930
520
80
190
125
7
233
1 ÷ 5 / 0.01 ÷ 0.05
below 75
1 PEN ~50Hz 230V TN-S
IP 20
135
170
15 ÷ 40
10 ÷ 90%





Standard / Optional Equipment:

	SF 11	SF 12	SF 15	SF 22:
TOUCH PANEL	S	S	S	S
WEATHER ADJUSTMENT (SMARTFIRE 2 CIRCUITS, HOLZMASTER 1 CIRCUIT)	S	0	S	S
SENSORS (EXTERNAL, HOT WATER, BUFFER, CIRCUITS, BOILER)	S	S	S	S
CONTROL FOR 2 ADDITIONAL CIRCUITS	0	0	0	0
CONTROL FOR THE BUFFER	S	0	S	S
INTERNET MODULE	0	0	Ο	0
LAMBDA PROBE	0	0	0	0
AUTOMATIC CLEANING EXCHANGER	S	S	0	0
SAFETY LOCK	S	S	S	S
HYDRAULIC EQUIPMENT	S	S	S	S
VACUM	0	0	0	0
STAINLESS STEEL BURNER	S	S	S	S
MECHANICAL CLEANING OF THE BURNER	S	S	S	S
EXHAUST VERTEX	S	S	S	S
PRESSURE 1.5 BAR	S	S	S	S
WORKING PRESSURE 3 BAR	0	0	0	0

SF 41:	SF 69:	SF 81	PF 21	HM 20	COSTA
S	S	S	S	-	·
S	S	S	0	S	
S	S	S	S	S	
0	0	0	0	0	
S	S	S	0	S	
0	0	0	0	0	
0	0	0	0	-	
0	S	S	0	-	
S	S	S	-	-	
S	S	S	S	S	
0	0	0	0	-	
S	S	S	S	ceramic	S
S	S	S	S		
S	S	S	S	S	-
S	S	S	S	S	-
0	0	0	0	0	-

The VACUM Pellet Transport System



VACUM PELLET TRANSPORT SYSTEM -

Pneumatic pellet choke from the larger tank to the SmartFire boiler. Includes: engine, suspension, independent regulator and housing.



SEPARATOR This device allows installation of several suction probes in the larger bin for ease of use throughout.



SUCTION PROBE This device, installed in the additional pellet tray, draws the fuel in smoothly.





DESCRIPTION:

- 1. Suction probe
- 2. Separator
- 3. Vacum

Diagram showing the Three Heating Circuits using the 1-3 CIRCULATION DISTRIBUTOR





DESCRIPTION:

- 1. Boiler
- 2. Temperature sensor of the hot water storage tank
- 3. Circuit pump for the hot water storage tank
- 4. Return temperature sensor
- 5. Room panel with circuit 1 sensor
- 6. Room sensor for circuit 2
- 7. Room sensor for circuit 3
- 8. Module 800 S
- 9. Outside temperature sensor
- 10. Circulation boiler, TV-valve
- 11.Circuit 1 (pump, 4D valve with actuator, temperature sensor)
- 12.Circuit 2 (pump, 4D valve with actuator, temperature sensor)
- 13. Circuit 3 (pump, 4D valve with actuator, temperature sensor)

The hydraulic diagram shown does not replace the installation as designed and is only an illustration.



MANUFACTURER

HKS LAZAR Spółka z o. o. 44-335 Jastrzębie-Zdrój ul. Wodzisławska 15B, POLAND +48 32 47 57 123 +48 32 47 29 578 +48 32 47 51 960

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e-mail: sekretariat@hkslazar.pl