











SMART fire

PELLET AND WOOD

BURNING BOILERS

modern heating appliances







ecology





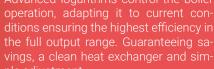
comfort & modernity

www.hkslazar.com





Lambda sensor



Weather control

assures all the devices form an integrated system which ensures optimal efficiency.





BAFA / MCS

Class 5



EcoDesign

Cast iron rotary valve

Stainless steel





Condensation



comfort & moderi

Touch panel Automatic cleaning

The advanced controller with an intuitive interface touch panel, weather adjustment, and a weekly program, helps to adjust the boiler to individual needs.



Turbulators located in the heat exchanger clean the surface, increasing boiler efficiency. In addition, they create exhaust turbulence assuring heat exchanger efficiency.

Vacuum

Thanks to a pneumatic pellet transport system VACUUM, pellets are automatically fed from a larger fuel container to the boiler, which reduces user input.



Equipped with hydraulics

The boiler is equipped with a hydraulic kit so its installation time is reduced.

Mechanical burner cleaning

The burner is systematically cleaned automatically which guarantees optimal combustion conditions and therefore reduces user input.

Compact construction

Small dimensions allows the boiler to fit in most boiler rooms.

Automatic ignition, automatic burner cleaning, automatic heat exchanger cleaning.

Limited user input, optimal combustion, high efficiency and measurable savings are assured by the automation of HKS Lazar boilers.

Automatic ash removal

Automatic de-ashing system removes the ash from the boiler to the external container where it is compressed. This reduces the amount of times, the user removes the ash. (Approximately every 2 months).

Remote access

Through the internal or external econet24.com server you can see the current parameters of boiler and hydraulic system, change most settings (user and service), have insight into the history of the most important parameters and receive email messages with alerts. The controller can be connected by cable or wirelessly.





SMART FIRE 11/15/22/31/41

Highly efficient pellet boiler with automatic operation, modern and convenient regulation



PARAMETER:	UNIT:	SF 11:	SF 15:	SF 22:	SF 31	SF 41:
boiler class	-	5	5	5	5	5
heat efficiency	%	91,2%	92,0%	90,6%	92,5%	91,0%
nominal output	kW	11	15	22	31	41
output range	kW	3,3 ÷ 11,0	4,5 ÷ 15,0	6,6 ÷ 22,0	9,3 ÷ 31,0	12,3 ÷ 41,0
width (fuel container type - width)						
150 L	mm	985	985	985	1115	1115
240 L	mm	1180	1180	1180	1310	1310
440 L	mm	1345	1345	1345	1475	1475
height	mm	1490	1490	1490	1490	1490
depth (fuel container type - depth)						
150 L	mm	760	760	760	1015	1015
240 L	mm	805	805	805	1015	1015
440 L	mm	1015	1015	1015	1015	1015
water capacity	dm ³	37	37	49	102	102
internal / external flue diameter	mm	100 / 93	120 / 110	120 / 110	160 / 150	160 / 150
recommended chimney diameter	mm	100 ÷ 110	120 ÷ 130	120 ÷ 130	160	160
required chimney draft	Pa/mbar	1÷8/0,01÷0,08	1÷8/0,01÷0,08	1÷8/0,01÷0,08	5÷15/0,05÷0,15	5÷15/0,05÷0,15
flow and return connections	cal	1	1	1	1	1
max. operational pressure*-depending on model	bar	1,5 / 3,0*	1,5 / 3,0*	1,5 / 3,0*	1,5 / 3,0*	1,5 / 3,0*
average flue gas temperature at max. power	°C	105	120	130	100	110
average flue gas temperature at min. power	°C	50	55	60	60	65
max. recommended flue gas temperature	°C	180	180	180	180	180
maximum flue gas temperature	°C	85	85	85	85	85
recommended boiler temperature	°C	65 ÷ 80	65 ÷ 80	65 ÷ 80	65 ÷ 80	65 ÷ 80
minimum return water temperature	°C	55	55	55	55	55
Integrated pellet hopper capacity	dm ³	150, 240, 440	150, 240, 440	150, 240, 440	150, 240, 440	150, 240, 440



Ecology

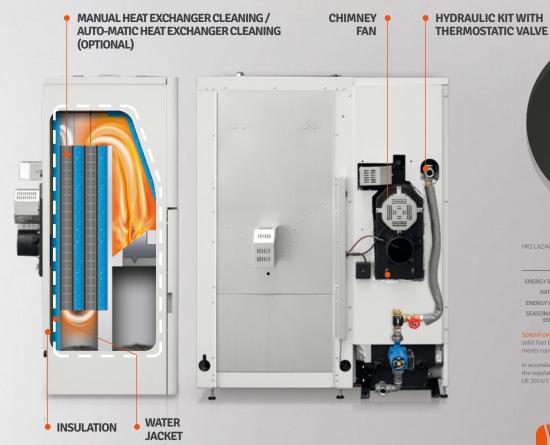
Safety





* SF 11, 15, SF 22





92-90% heat efficiency!

MODEL ID:	21.11	3L T3	3F ZZ	3L 3T	3F 41
ENERGY EFFICIENCY CLASS:	A+	A+	A+	A+	A+
RATED HEAT OUTPUT:	11 kW	15kW	22 kW	31 kW	41 kW
ENERGY EFFICIENCY RATIO:	119	118	116	118	119
SEASONAL SPACE HEATING ENERGY EFFICIENCY:	81%	80%	78%	80%	81%





integrated pellet hopper capacity

SMART FIRE 11/15

Highly efficient pellet boiler with automatic operation, modern and comfortable regulation

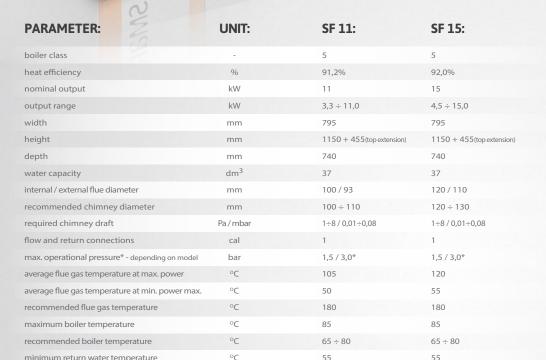












50 + top extension (90 or 165)

50 + top extension (90 or 165)

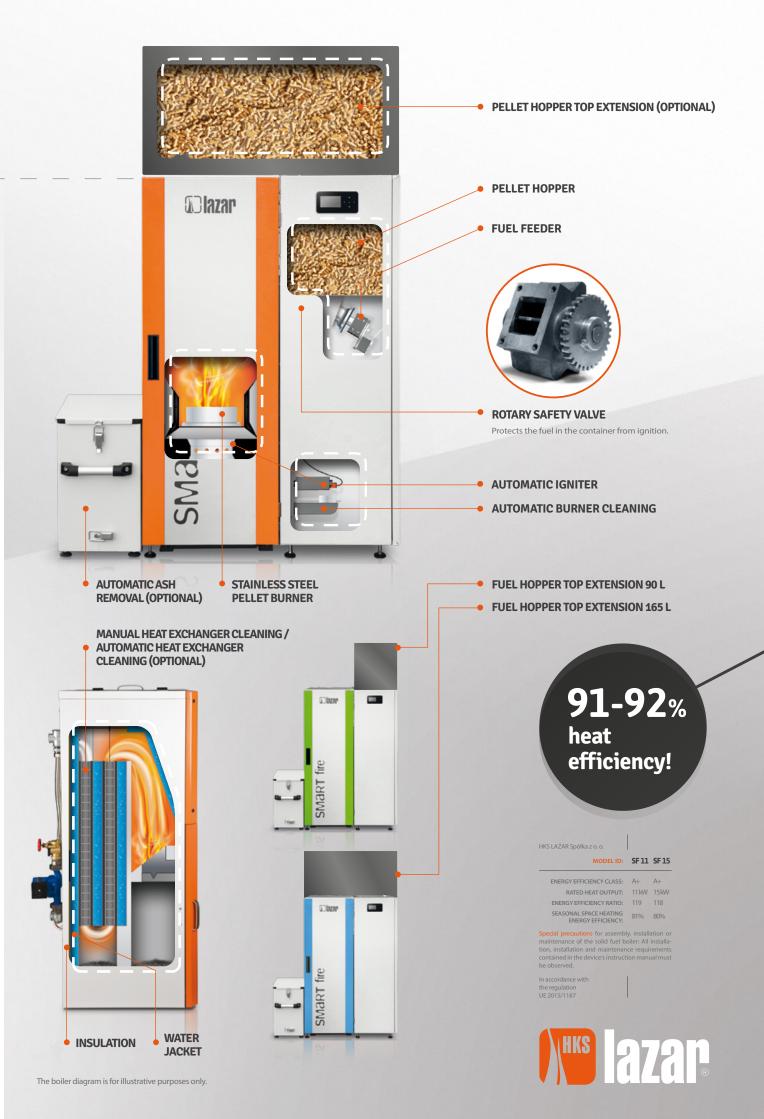
 dm^3















SMART FIRE 11/130

Highly efficient pellet boiler with a compact and modern design



Integrated pellet hopper capacity













Economy

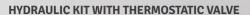
PARAMETER:	UNIT:	SF 11/130:
boiler class	-	5
heat efficiency	%	91,2%
nominal output	kW	11
output range	kW	3,3 ÷ 11,0
width	mm	580
height	mm	1620
depth	mm	925
water capacity	dm ³	37
internal / external flue diameter	mm	100 / 93
recommended chimney diameter	mm	100 ÷ 110
required chimney draft	Pa / mbar	1 ÷ 8 / 0,01 ÷ 0,08
flow and return connections	cal	1
maximum operational pressure* - depending on model	bar	1,5 / 3,0*
average flue gas temperature at maximum power	°C	105
average flue gas temperature at minimum power	°C	50
maximum recommended flue gas temperature	°С	180
maximum boiler temperature	°C	85
recommended boiler temperature	°C	65 ÷ 80
minimum return water temperature	°C	55















91.2% heat efficiency!

HKS LAZAR Spółka z o. o.

MODEL ID: SF 11

RATED HEAT OUTPUT: 11 kW
ENERGY EFFICIENCY RATIO: 119
SEASONAL SPACE HEATING ENERGY
EFFICIENCY: 81%



pellet boilers

INTER FIRE 11

Stainless steel condensing pellet boiler with automatic cleaning and lambda sensor



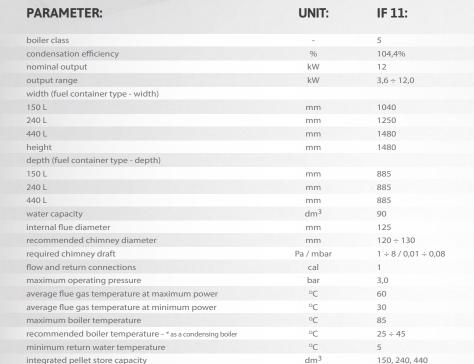








Save pellets! thanks to condensation!





Economy



Ecology



Safety



Comfort & modernity



wood boilers

HOLZ MASTER

Highly efficient wood boiler with modern and convenient adjustments









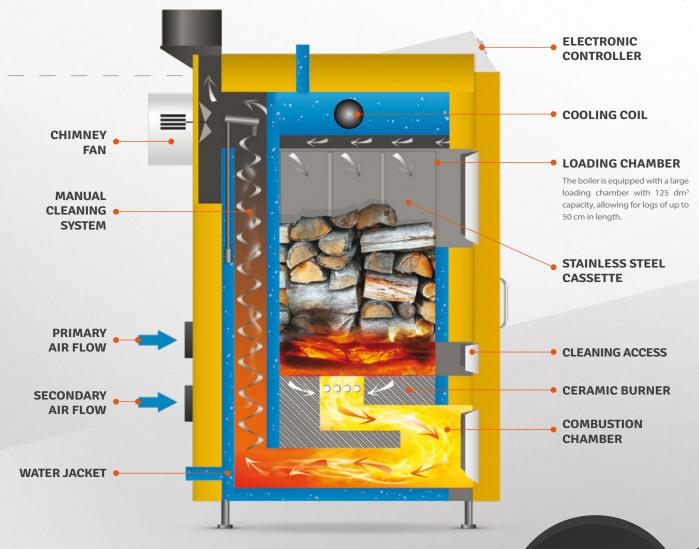








PARAMETER:	UNIT:	HM 20:
boiler class	-	5
heat efficiency	%	90,6 %
nominal output	kW	20
fuel consumption at nominal output	kg/h	~ 5,5
width	mm	770
height	mm	1565
depth	mm	1075
internal / external flue diameter	mm	160 / 150
flow and return connections	cal	11/4
maximum operating pressure* - depends on model	bar	1,5 / 3,0*
required chimney draft	Pa	5 ÷ 15 / 0,05 ÷ 0,15
maximum flue gas temperature	°C	80
average flue gas temperature at nominal output	°C	140
recommended boiler temperature	°C	70 ÷ 80
noise level	dB	under 75
water capacity	dm ³	132



90,6% heat efficiency!

LIVE I AZAD Spálka z o

MODEL ID: HM20

ENERGY EFFICIENCY CLASS: A+
RATED HEAT OUTPUT: 20 kW
ENERGY EFFICIENCY RATIO: 115

SEASONAL SPACE HEATING ENERGY EFFICIENCY: Special precautions for assembly, installation

Special precautions for assembly, installation or maintenance of the solid fuel boiler: All installation, installation and maintenance requirements contained in the device's instruction manual must be observed.

In accordance with



The boiler diagram is for illustrative purposes only.



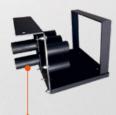
Pellet transport and storage systems

VACUUM



PELLET TRANSPORT SYSTEM - VACUUM

Pneumatic pellet feeder from a larger container to the SmartFire boiler. Includes: motor, mount, independent regulator and housing.



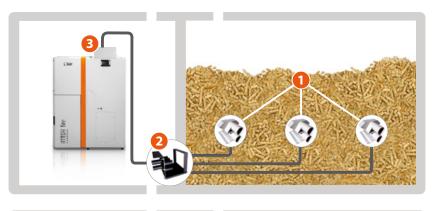


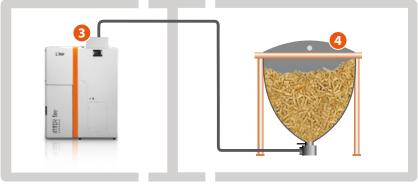
DISTRIBUTOR

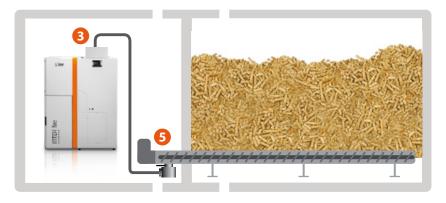
This device enables the installation of several feeder sensors in the larger pellet store, making it easier to use the full capacity.

SUCTION PROBE

This device is installed in the larger pellet pellet store and is used for smooth fuel feeding.



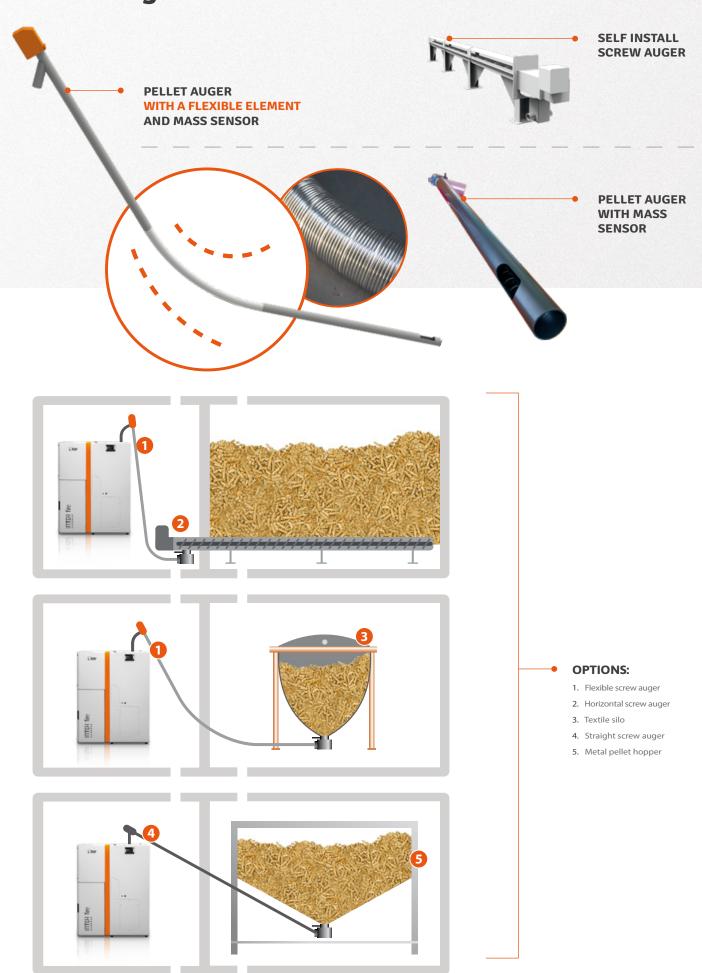




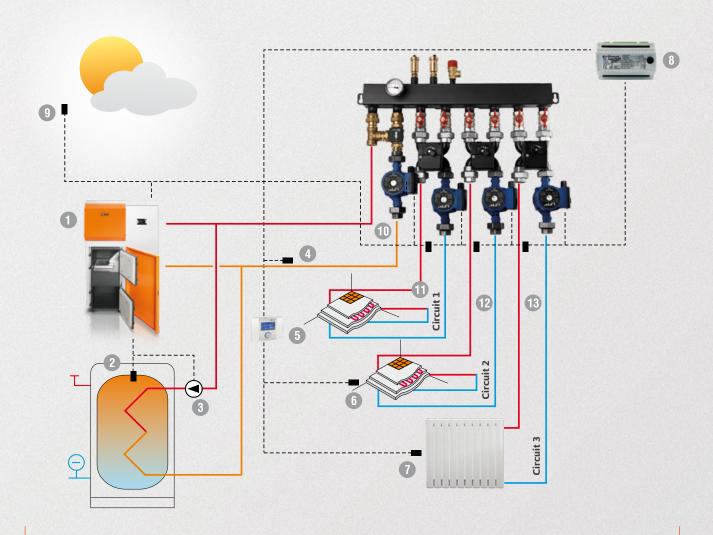
DESCRIPTION:

- 1. Suction probe
- 2. Distribute
- 3. Vacuum4. Textile silo
- 5. Horizontal screw auger

Pellet auger



Three heating circuits diagram DISTRIBUTOR 1-3 CIRCULATION.



DESCRIPTION:

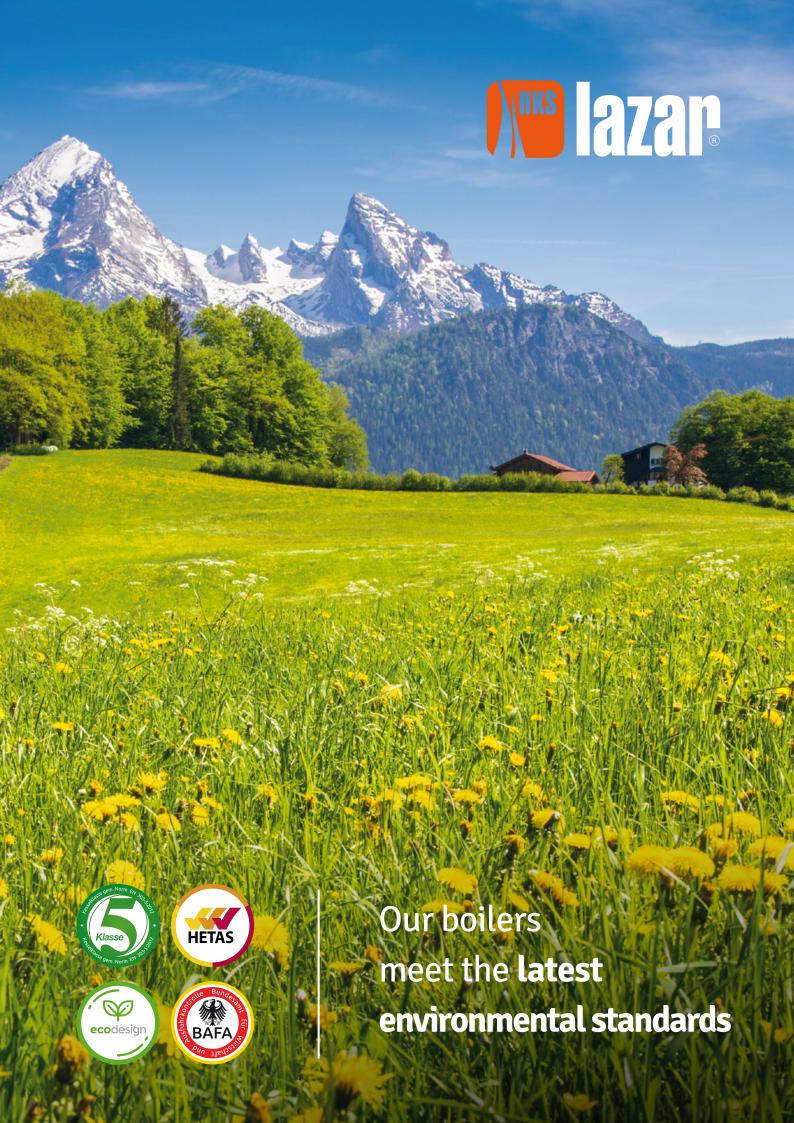
- 1. Boiler
- 2. Usable warm water temperature sensor
- 3. Usable warm water circulation pump
- 4. Return temperature sensor
- 5. Room panel with circulation sensor 1
- 6. Room sensor for circulation 2
- 7. Room sensor for circulation 3
- 8. Module 800 S
- 9. External temperature sensor
- 10. Boiler circuit, pump, 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)



Standard / Optional equipment

		PELLET HOPPER ON THE TOP			LET HOPPER ON THE SIDE				
	SF 11/15 COMPACT	SF11/130	SF 11	SF 15	SF 22	SF 31	SF 41	IF 11	HM 20
TOUCH PANEL	0	S	S	S	s	S	S	s	-
WEATHER CONTROL (SMARTFIRE 2 CIRCUITS, HOLZMASTER 1 CIRCUIT)	S	S	S	S	S	S	S	S	S
SENSORS (EXTERNAL, DOMESTIC HOT WATER, CIRCUITS, BOILER)	S	S	S	S	ss	S	S	S	S
2 CIRCUITS ADDITIONAL	0	0	0	0	0	0	0	0	0
BUFFER CONTROL	S	S	S	S	S	S	S	S	S
INTERNET MODULE	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s
LAMBDA SENSOR	o/s	o/s	o/s	o/s	o/s	o/s	o/s	S	-
AUTOMATIC HEAT EXCHANGER CLEANING	o/s	o/s	o/s	o/s	o/s	o/s	o/s	S	
SAFETY VALVE	S	S	S	S	S	S	S	S	-
HYDRAULIC KIT	o/s	o/s	o/s	o/s	o/s	o/s	o/s	- *	o/s
VACUUM	-	0	0	0	0	0	0	0	-
STAINLESS STEEL BURNER	S	S	S	S	S	S	S	S	ceramic
AUTOMATIC BURNER CLEANING	S	S	S	S	S	S	S	S	-
HEAT EXCHANER TURBULATORS	S	S	S	S	S	S	S	S	S
OPERATIONAL PRESSURE 1,5 BAR	S	S	S	S	S	S	S	S	S
OPERATIONAL PRESSURE 3 BAR	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s
AUTOMATIC ASH REMOVAL	0	0	0	0	0	0	0	S	-]
5 YEARS WARRANTY (FOR TIGHTNESS OF THE EXCHANGER)	S	S	S	S	S	S	S	S	S







MANUFACTURER

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