



**ThermoFLUX**

**PRODUCT  
CATALOGUE**

2019

**ThermoFLUX**

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# ABOUT US

ThermoFLUX Ltd is located in the heart of Bosnia and Herzegovina in the city Jajce .

The company was founded in 2007. Since then, the company has continually developed, investing in the latest equipment and tooling and consequently increased the number of employees. Our staff have adopted the highest standards with assistance from specialised European institutes and we have now grown into a well respected, international company .

The production process is performed in newly built halls, in the area of 14500 m<sup>2</sup>.

ThermoFLUX is the biggest manufacturer of biomass boilers in Bosnia and Herzegovina.

Half of our production is exported and our products are very competitive on the international market.

Our products are certified, and benefit from state subsidies in several countries

We have implemented ISO 9001 quality management system.

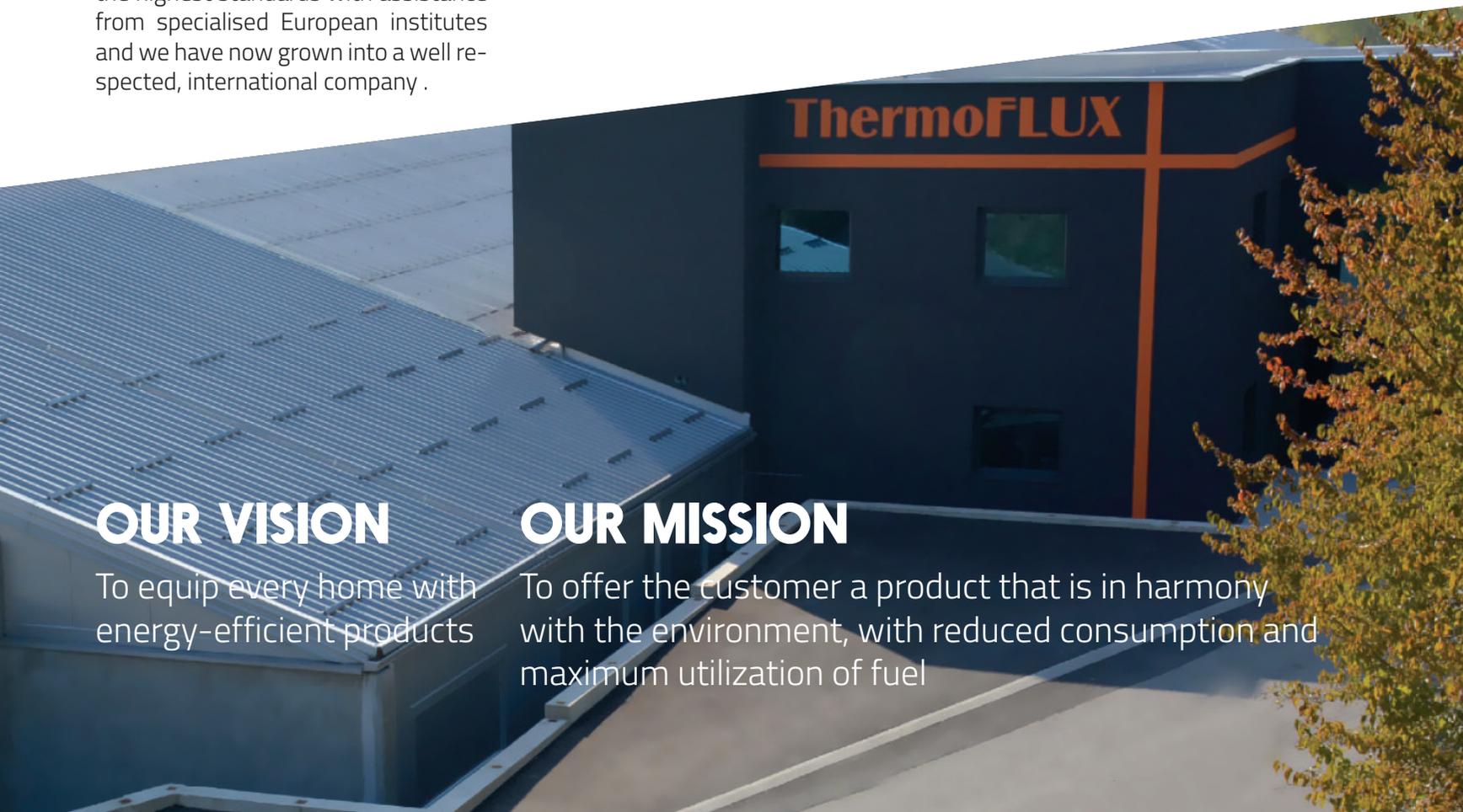
For us, quality, innovation and product knowledge are essential in order to offer customers the best option.

## OUR VISION

To equip every home with energy-efficient products

## OUR MISSION

To offer the customer a product that is in harmony with the environment, with reduced consumption and maximum utilization of fuel



# CERTIFICATES AND SUBSIDIES



ISO 9001 is an international standard that includes requirements for a quality management system in a business organization that the organization must meet in order to operate in compliance with internationally recognized standards.

EN 303-5:2012 European standard that is used for hot water boilers for solid fuels, manually and automatically filled, Nominal thermal power up to 500 kW including the connected safety devices. Standard specifies requirements and test methods for safety, quality and efficiency of combustion, operating characteristics, labeling and maintenance.

EN 14785 specifies requirements for the design, production, manufacturing, safety and performance (efficiency and emission), instructions and marking together with associated test methods and fuels for type testing, for devices intended for space heating with wood pellets in the household up to 50 kW rated output of heat.

CE mark certifies that the product meets the essential requirements for consumer safety, health or environmental protection, as defined by the guidelines, or the EU regulations.

Bafa Certificate is issued by the German Office of Economics and Export Control under the authority of the German Ministry of economy and technology (BMWi)

EKO SKLAD Certificate issued by the State fund Slovenia which main business is lending investments in environmental protection, in accordance with the National environmental action plan and the overall environmental policy of the European Union

Certificate for environmentally friendly products and services. The Directive supports boilers that are only operated with renewable energy with low emissions and high efficiency.

# PELLET BOILER

## ECOLOGIC

The EcoLogic pellet boiler is equipped with the latest generation of specially constructed burner, touch color display, automatic ignition and functions for cleaning grate and the heat exchanger. These features make EcoLogic special.

The boiler provides users with great comfort and minimal maintenance. It is equipped with automatic fuel loading, automatic ignition, multi-level thermal protection and automatic cleaning. The control unit adjusting combustion to the requirements of the heating system, with emissions

reduced to a minimum. Technology in production and a series of proven technical innovations with the most advanced components makes it very safe in operation and easy to manage. The option of connecting to web systems gives a great deal of autonomy and flexibility in operation.



DESIGN **PLUS**

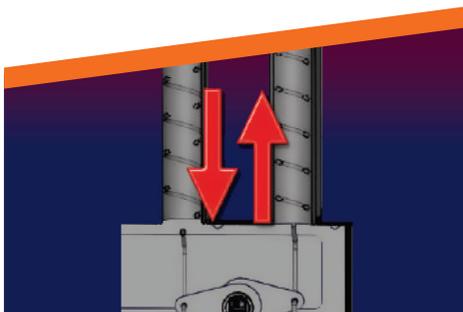
powered by: ISH

**Wi-Fi** ready

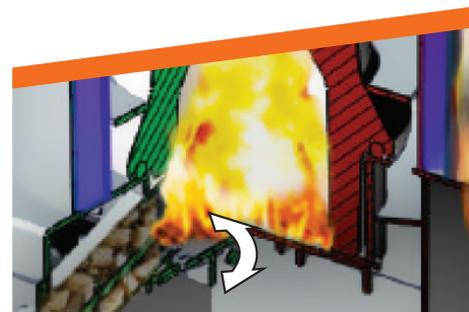
kW 25 35 44



The regulation unit is equipped with user friendly interface, simple and intuitive.



Vertical tube heat exchanger with automatic ash cleaning mechanism.



The automatic cleaning of the burner with a moving grate provides us great with comfort in the work and flawless ignition regardless of the type and quality of pellet.



Web server for internet connection. A possibility of programming, monitoring and controlling.



A possibility of rotating the flue outlet makes it easier to install the boiler without additional work.



Boiler can be controlled remotely. It is possible to connect a room thermostat, Wi-Fi module and perform monitoring and control of the work.

# PELLET BOILER

## ECOLOGIC

The firebox of the boiler is covered with special fire resistant material (silicon carbide), which provides high-temperature combustion and therefore a high degree of utilization of energy **1**.

Combustion process begins with the pellets in the firebox is heated and flares up. Gases formed from the pellet in the combustion chamber by adding a secondary air clean burn at high temperature **2**.

Combustion is digitally controlled by regulation therefore achieving perfect combustion and low emission.

The automatic cleaning of the burner **3** and tube heat exchanger **4** ensure the smooth operation of the boiler with the maximum utilization.

The ignition and return flame protection is a stellar valve **5** located between the tank and the dispenser.



- **Easy installation and connection**
- **Automatic cleaning of the combustion chamber and heat exchanger**
- **A possibility of connection and control of the three heating circuits and mixing valve**
- **Prepared for connection to the buffer tank**
- **Guarantee 5 years**

		Unit Measures	EcoLogic 25	EcoLogic 35	EcoLogic 44
1	Max output power	kW	25	35	44
2	Min output power	-	8	11	14
3	Boiler weight	kg	370	395	415
4	Hydraulic connection	m	1	5/4	5/4
5	Water content	-	55	68	90
6	Max. work temperature	°C	85	85	85
7	Min. return temperature	°C	55	55	55
8	Depth	mm	1100	1100	1100
9	Width	mm	1050	1050	1050
10	Height	mm	1270	1460	1460
11	Flue pipe height	mm	1250	1495	1495
12	Flue pipe diameter	mm	130	130	130
13	Out / return height	mm	1125/603	1315/603	1315/603
14	Pellet silo capacity	kg	165	165	165
15	Pellet consumption min/max.	kg	1,7/5,4	2,4/7,5	3/9,5

# PELLET BOILER

## PELLING

WiFi ready

kW 25 35 50

Pelling is a simple pellet boiler designed for heating family houses and apartment buildings.

Due to the possibility to work in 5 (five) different powers, regulation can satisfy needs to increase or decrease heating by automatic adjustment of power. When desired temperature is reached (need for heating energy is satisfied) control unit is decreasing power (modulates), or when room thermostat gives signal that set temperature is reached, boiler then goes into shut-down mode or maintaining the minimum flame.

Combustion is supported by a suction fan, and as a result, ash is blown into the collector pan, which is located directly below the firebox.

Boiler is constructed with tubular heat exchangers with turbulators that provide greater efficiency compared to conventional boilers. Tube exchangers increase the heat-transmitting area, allowing greater heat transfer to the water, while turbulators decrease the flow and temperature of exhaust gases, reducing the consumption of energy and pellet.





The combustion burner for pellet is molded from cast iron and provides complete combustion and long life in all working conditions



Tube heat exchanger is constructed with turbulators, which reduces the speed of exhaust gases, and also increases the surface area through which heat is transferred to water



The boiler is available in four versions. Users can choose which the side of the silo for the pellets (left or right) as well as its size (standard or maxi)



Smart stop function ensures that the stove automatically turns off if temperature of the water exceeds preset.



Regulation unit continuously controls combustion. The control software adjusts to provide minimum consumption of energy and optimal gas emissions.



Boiler can be controlled remotely. It is possible to connect a room thermostat, Wi-Fi module and perform monitoring and control of the work.

# PELLET BOILER

## PELLING

- Automatic regulation with an option of weekly programming
- Simplified connection with room thermostat
- Tube heat exchangers with turbulators
- Reduced fuel consumption with high efficiency
- Optional extended pellet silo which provides more autonomy
- A possibility to burn wood
- Easy use and maintenance
- No condensation
- Efficiency >91 %
- Listed on BAFA (Germany) and
- EKO sklad (Slovenia) state subsidies for clean energy



		Unit Measures	Pelling 25	Pelling 35	Pelling 50
1	Heat power	kW	8-25	1 1,7-35	15,7-47
2	Water volume	l	60	90	120
3	Boiler weight	kg	267	348	392
4	Inlet/Outlet	l	1"	5/4"	5/4"
5	Fume gases temperature	°C	155	145	141
6	Max. work temperature	°C	80	80	80
7	Height to flue pipe	mm	1240	1440	1440
8	Boiler depth	mm	948	948	1098
9	Boiler width (without pellet silo)	mm	410	510	510
10	Boiler height	mm	1245	1385	1385
11	Boiler width standard/maxi	mm	715/915	810/1010	810/1010
12	Flue pipe diameter	mm	120	120	120
13	Inlet/outlet height	mm	88 / 1280	85/1415	85/ 1415
14	Pellet silo capacity standard/maxi	kg	75/135	95/151	110/185
15	El. power consumption nominal/max.	w	160 / 350	160/410	160 / 450
16	Water temperature min / max	°C	60/80	60/80	60/80
17	Loading/cleaning door dimension (h x w)	mm	285 x 250	345 x 350	350 x 375
18	Pellet consumption min / max	kg/h	1,6-5,2	2,3 - 6,7	3,5-11,1
19	Fuel	-	pellet	pellet	pellet
20	Flue pipe direction	-	up	up	up
21	In accordance	EN	303-5:2012	303-5:2012	303-5:2012
22	Class	-	5	5	5

# PELLET BOILER INTERIO



WiFi ready

kW 15 22



SAVE  
SPACE



Automatic ignition with the possibility of programmed ignition and shutdown



Built-in circulation pump and expansion vessel



Built-in safety valve 3 bar



A possibility of connecting a room thermostat



Regulation unit at every moment controls combustion. The control software adapts to the situation by providing at any time a minimum consumption of energy and optimal emission of gases.



Boiler can be controlled remotely. It is possible to connect a room thermostat, Wi-Fi module and perform monitoring and control of the work.



Smart stop function ensures that the stove automatically turns off if temperature of the water exceeds adjusted.



The combustion burner for pellets is moulded from cast iron and provides complete combustion and long life in all working conditions

# PELLET BOILER

## INTERIO

- **Automatic control with the option of weekly programming**
- **Due to the small size ideal solution for small boiler room**
- **Built-in circulation pump, expansion vessel and safety valve**
- **Easy to clean and maintains high efficiency**
- **Minimal emission of gases**

Interio is a modern designed pellet boiler intended for users who do not have enough space for installation. The boiler is compact and needs only 1m<sup>2</sup> for installation, so it can be located in the smallest rooms. A 45 kg capacity pellet storage tank, digital control with a seven-day programmer, cast iron fire-

box, circulation pump, expansion tank and safety valve make it easy to install and use. The built-in system for cleaning the pipe heat exchanger allows easy maintenance and cleaning. The control panel provides easy temperature control, change of options, and adaptation to individual needs and user re-

quirements. The possibility of connecting the WiFi module gives the user the control and management of the work over the Internet. The boiler has high efficiency and low emission of gases.

		Unit Measures	Interio 15	Interio 22
1	Boiler weight	kg	208	240
2	Heat power range	kW	5-15	7-22
3	Water capacity	L	32	40
4	Chimney vacuum needed	mbar	0,05 / 5	0,05-0,12
5	Input /output pipe	inch	1"	1"
6	Flue gas max temperature	°C	cca160	ca 160
7	Working temperature min/max	°C	50-80	50-80
8	Max working pressure	Bar	2,5	2,5
9	Pellet consumption min/max	kg/h	1 / 3,6	1,5 / 4,6
10	Boiler depth	mm	785	785
11	Boiler width	mm	620	620
12	Boiler height	mm	1285	1250
13	Flue gas pipe diameter	mm	80	80
14	Outlet / Inlet height	mm	960/151	960/151
15	Silo capacity	kg	45	45
16	Electrical consumption max	W	100 / 420	100 / 420
17	Flue outlet diameter	mm	80	80
18	Center of flue outlet height	mm	278	278
19	Fuel	-	Pellet	Pellet

# PELLET STOVE ELEGANCE



WiFi ready

kW 15 18 22 26



BEAUTIFUL  
DESIGN



Automatic ignition with the possibility of programmed ignition and shutdown



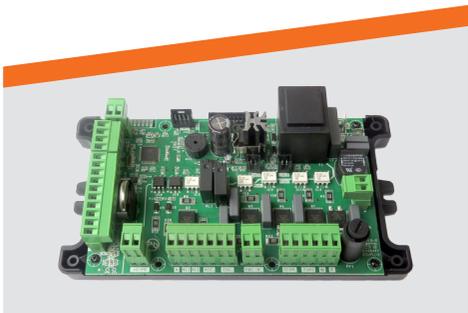
Built-in circulation pump and expansion vessel



Built-in safety valve 3 bar



A possibility of connecting a room thermostat



Regulation unit at every moment controls combustion. The control software adapts to the situation by providing at any time a minimum consumption of energy and optimal emission of gases.



Boiler can be controlled remotely. It is possible to connect a room thermostat, Wi-Fi module and perform monitoring and control of the work.



Smart stop function ensures that the stove automatically turns off if temperature of the water exceeds adjusted.



The combustion burner for pellets is moulded from cast iron and provides complete combustion and long life in all working conditions

# PELLET STOVE

## ELEGANCE

- **Automatic regulation with an option of weekly programming**
- **High efficiency**
- **Built in circulation pump, expansion vessel and safety valve**
- **Easy use and maintenance**
- **Reduced emission of flue gases**

**E**legance pellet stove with a water exchanger are intended for central heating systems. Most of the energy is transferred to the water through radiators and the rest through the unit by irradiant heat.

Interio stoves have built-in expansion chamber, safety valve and circulation pump. The option of seven-day programming with automatic ignition provides the comfort of a fully automated system for heating your home.

The pellet stoves combine beautiful design and comfort.

		Unit measures	15	18	22	26
1	Weight	kg.	230	230	230	250
2	Power range	kW	5-15	6-18	7-20	7,8-26
3	The water content in the furnace	L	30	30	30	34
4	Under-pressure chimneys	Pa	5-12	5-12	5-12	5-12
5	Water conction Inlet/Outlet	inch	1"	1"	1"	1"
6	Max. working temperature	°C	80	80	80	80
7	Max working pressure	bar	3	3	3	3
8	Depth	mm	725	725	725	780
9	Width	mm	530	530	530	530
10	Height	mm	1220	1220	1220	1220
11	The diameter of the flue	mm	80	80	80	80
12	Height of drain / return	mm	486/486	486/486	486/486	486/486
13	Fuel Tank	kg	40	40	40	40
14	Dimensions of glass	mm	310X200X5	310X200X5	310X200X5	310x200x5
15	Fuel	-	Pellet	Pellet	Pellet	Pellet
16	Extract flue pipe (up / back)	-	Back	Back	Back	Back

# PELLET STOVE INTERIO



WiFi ready

kW 14 18

5  
WARRANTY  
GARANTIE

BEAUTIFUL  
DESIGN



Automatic ignition with the possibility of programmed ignition and shutdown



Built-in circulation pump and expansion vessel



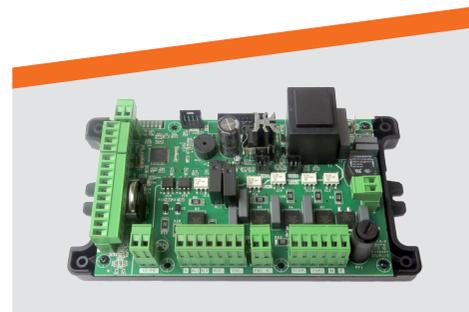
Built-in safety valve 3 bar



A possibility of connecting a room thermostat



Ceramic parts are available in three colors: beige, red and white.



Regulation unit continuously controls the combustion. The control software adjusts to provide minimum consumption of energy and optimal gas emissions.



Smart stop function ensures that the stove automatically turns off if temperature of the water exceeds preset values.



Stove can be controlled remotely. It is possible to connect a room thermostat, Wi-Fi module and perform monitoring and control of the work.

# PELLET STOVE

## INTERIO

Interio pellet stoves with a water exchanger are intended for central heating systems. Most of the energy is transferred to the water through radiators and the rest through the unit by irradiation heat. Interio stoves have built-in expansion chamber, safety valve and circulation pump.

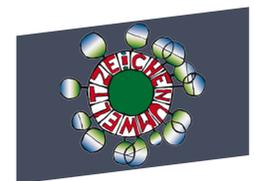
The option of seven-day programming with automatic ignition provides the comfort of a fully automated system for heating your home.

The pellet stoves combine beautiful design and comfort. The sides are made of hand-processed ceramic

tiles, and are available in three colors.

Due to their small dimensions, Interio stoves are ideal for apartments. Visible fire through the glass creates a pleasant ambiance in your home.

- **Automatic regulation with an option of weekly programming**
- **Efficiency 94%**
- **Built in circulation pump, expansion vessel and safety valve**
- **Easy use and maintenance**
- **Reduced emission of flue gases**
- **Listed on BAFA (Germany) and EKO sklad (Slovenia) state subsidies for clean energy**



		Unit Measures	Interio 14	Interio 20
1	Weight	kg	204	214
2	Power range	kW	4,6 - 14,1	6-18
3	Heat transfer to the water	kW	12,1	15,8
4	Heat in room	kW	2	2,2
5	Water content	L	33	25
6	Recom. draught ratio	mbar	0,05/0,1	0,05/0,1
7	Water connection Inlet/Outlet	inch	1"	1"
8	Flue gas temperature	°C	cca160	cca160
9	Max working temperature	°C	80	80
10	Max working pressure	Bar	2,5	2,5
11	Height to center of flue pipe	mm	315	315
12	Depth	mm	657	657
13	Width	mm	634	634
14	Height	mm	1089	1089
15	Available colors	mm	Red/ beige / white	Red/ beige / white
16	Flue pipe diameter	mm	80	80
17	Outlet / Inlet height	kg	925,5/142,5	925,5/142,5
18	Pellet storage capacity	W	30	30
19	Electric consumption nominal/max	°C	90 / 340	100 / 350
20	Min/max water temperature	mm	55 / 80	55 / 80
21	Glass dimensions	kg/h	318x236x4	318x236x4
22	Min/max pellet consumption	-	1-3,1	1-4,1
23	Fuel		Pellet	Pellet
24	Flue pipe direction		Back	Back

# PELLET STOVE

## MINITHERM AQUA



WiFi ready

kW 8.5



DESIGN

COMFORT



Automatic ignition with the possibility of programmed ignition and shutdown



Built-in circulation pump and expansion vessel



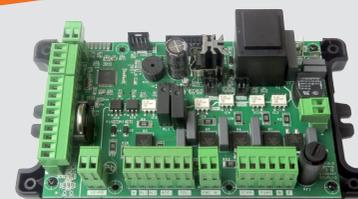
Built-in safety valve 3 bar



A possibility of connecting a room thermostat



Stove can be controlled remotely. It is possible to connect a room thermostat, Wi- Fi module and perform monitoring and control of the work.



Regulation unit continuously controls the combustion. The control software adjusts to provide minimum consumption of energy and optimal gas emissions.



Smart stop function ensures that the stove automatically turns off if temperature of the water (or air) exceeds pre-set values.

# PELLET STOVE

## MINITHERM AQUA

Pellet stove Minitherm AQUA has a water exchanger and it is intended for central heating systems. Most of the energy is transferred to the water through radiators and the rest through the glass on the stove. It has built-in circulation pump and expansion vessel, and due to its small dimensions it is an ideal solution for apartments.

Heats up to 80 square meters of living space. Stove management is very easy. The possibility of programmed ignition and extinguishing gives you great autonomy in operation.

The possibility of programmed ignition and shut-off (4 times daily ignition, 4 times daily shutting off),

and the possibility of connecting a room thermostat that extinguishes a stove when reaching the specified temperature, provides the comfort of fully automatic warming up your home whenever you want.

- **Automatic regulation with an option of weekly programming**
- **Efficiency 91%**
- **Built in expansion vessel, safety valve and circulation pump (AQUA)**
- **Due to small dimensions, ideal solution for apartments**
- **Easy use and maintenance**
- **Reduced emission of flue gases**



		Unit Measures	<b>Interio AQUA</b>
1	Power range of work	kW	3 - 8,5
2	Heat transfer to the water	kW	6,5
3	Heat in space	kW	2
4	The water content in the furnace	L	23
5	Under-pressure chimneys	mbar	0,05/0,1
6	Starting / rebound line	inch	3/4"
7	Temp. flue gas	°C	cca160
8	Max. working temperature	°C	85
9	Max working pressure	Bar	3
10	The height to the middle of the flue	mm	198,5
11	Depth	mm	575
12	Width	mm	480
13	Height	mm	945
14	Performance shell and available colors ceramics	mm	black / bordeaux
15	The diameter of the flue	mm	80
16	Height of drain / return	kg	321 /321
17	Fuel Tank	W	18
18	El. power nominal / max	°C	80 / 330
19	Min / Max temp. outlet water	mm	65 / 85
20	Dimensions of glass	kg/h	330x220x4
21	Min / Max consumption of pellets	-	0,6 - 1,7
22	Fuel	-	Pellet
23	Excerpt flue pipe (up / back)	-	Back

# PELLET STOVE MINITHERM



WiFi ready

kW

8



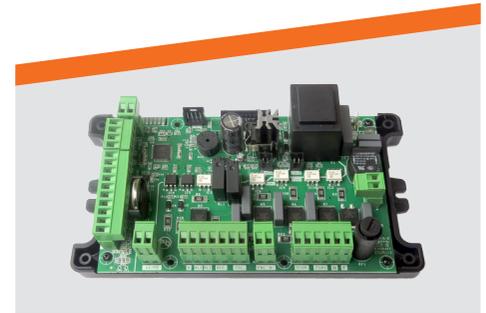
DESIGN  
COMFORT



Automatic ignition with the possibility of programmed ignition and shutdown



Stove can be controlled remotely. It is possible to connect a room thermostat, Wi-Fi module and perform monitoring and control of the work.



Regulation unit continuously controls the combustion. The control software adjusts to provide minimum consumption of energy and optimal gas emissions.



Smart stop function ensures that the stove automatically turns off if temperature of the water (or air) exceeds pre-set values.

# PELLET STOVE

## MINITHERM

Pellet stoves MINITHERM provide maximum effect by blowing out hot air into the room. Simple regulation with the possibility of the programmed switching on and off. The user specifies the default temperature in the area.

Minitherm can heat up to 60 square

meters of living area. Due to its small dimensions it is ideal for the apartments. Pellet consumption is in the ranges from 0.6 to 1.7 kg per hour.

Regulation unit at every moment controls combustion.

The control software adapts to the situation by providing at any time a minimum consumption of energy and optimal emissions of gases.

Smart stop function ensures that the stove automatically turns off if temperature of the temperature of the air exceeds pre adjusted.

- **Automatic regulation with an option of weekly programming**
- **Efficiency 91%**
- **Built in expansion vessel, safety valve and circulation pump (AQUA)**
- **Due to small dimensions, ideal solution for apartments**
- **Easy use and maintenance**
- **Reduced emission of flue gases**



		Unit Measures	Interio AIR
1	Heating effect	kW	8
2	The water content in the furnace	L	-
3	Under-pressure chimneys	mbar	0,05/0,1
4	Starting / rebound line	inch	-
5	Temp. flue gas	°C	cca160
6	Max. working temperature	°C	40
7	Max working pressure	Bar	-
8	The height to the middle of the flue	mm	198,5
9	Depth	mm	575
10	Width	mm	480
11	Height	mm	945
12	Performance shell and available colors	mm	red
13	The diameter of the flue	mm	80
14	Height of drain / return	kg	-
15	Fuel Tank	W	18
16	El. power nominal / max	°C	80 / 330
17	Min / Max temp. outlet water	mm	-
18	Dimensions of glass	kg/h	330x220x4
19	Min / Max consumption of pellets	-	0,6 - 1,6
20	Fuel		Pellet
21	Extract flue pipe (up / back)		Back



## PRODUCTION

The entire production process is performed in newly built halls, in the area of 14500 m<sup>2</sup>. The production is on the very high technological level. Cutting, bending, and welding is carried out with the most modern CNC machines, whose number is growing from year to year. Besides the investment in machinery and equipment, we invest in employees. Our employees constantly improve their knowledge and skills.



## CAPACITIES

Every detail during production is carried out with great attention and care. High production capacity and trained staff are our main advantages. Product storage is a high-rack type, on 2500 m<sup>2</sup> space, implemented with highest standards.



## RENEWABLE ENERGY

Thermoflux's mission is to develop economical and ecological products that meet the highest quality standards. Our goal is to enable easy handling while protecting nature.





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 ThermofLUX