hoşseven
ISI VE YALITIM SAN. TİC. AŞ.

hoşseven
ISI & YALITIM SAN. VE TİC. A.Ş.

HYDRO PELLET STOVES
USER and INTALLATION MANUAL
P20 LILY / P25 LILY / P15 IRIS / CAMELLIA

ENGLISH

hoşseven
ISI VE YALITIM SAN. TİC. AŞ.

P20 LILY 20 kW/h

P25 LILY 25 kW/h

CAMELLIA 16 kW/h

P15 IRIS 15 kW/h

HYDRO PELLET STOVES
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P20 LILY / P25 LILY / P15 IRIS / CAMELLIA

We thank you for having chosen our company; our product is a great heating solution developed from the most advanced technology with top quality machining and modern design, aimed at making you enjoy the fantastic sensation that the heat of a flame gives, in complete safety.

Hoşseven Isı & Yalıtım San.Tic.A.Ş

ENGLISH...

INTRODUCTION

Attention:

We recommend you to read carefully this booklet, which describes all the necessary phases for a perfect functioning of your stove.

Note:

The standards relevant to the installation and functioning contained in this manual can differ based on local standards in force. In this case, always comply with the indications of the local competent authorities. The drawings in this manual are indicative, not to scale.

Information:

The packaging we have used offers good protection against any damage due to transport. In any case, check the stove immediately after delivery; in the event of possible visual damage, immediately inform your Hosseven dealer.

Description of the User and Maintenance Manual:

With this User and Maintenance Manual, the company Hosseven wishes to provide the user with all the informations on safe use of the stove, to avoid damages to people or properties or parts of the stove. Please carefully read this manual before use and any intervention on the product.

WARNINGS

Hosseven stoves are manufactured paying particular attention to each component, to protect both the user and the installer from the danger of possible accidents. We recommend authorised staff to pay particular attention to electrical connections after each intervention on the product.

Installation must be carried out by authorised staff, who must issue the customer with a declaration of conformity of the system, while taking full responsibility for final installation and the resulting good operation of the product installed. It is necessary to keep in consideration all national, regional, provincial and municipal laws and standards for the country in which the equipment is installed.

There is no liability on the part of Hosseven in the event of non-compliance with these precautions.

This instructions manual forms an integral part of the product: ensure that it is always with the stove, also in the case of transfer to another owner or use or transfer to another location. In the event it is damaged or lost, ask technical support for a copy.

This stove was destined for the use for which it was specifically manufactured. Do not use the equipment as an incinerator or in any other way other than what it was designed. The manufacturer is excluded from any contractual or out of contract responsibility for damage caused to people, animals or properties, errors during installation, regulation and maintenance and improper use. No other fuel other than pellets can be used.

Do not use combustible liquids.

Having removed the packaging, ensure the integrity and completeness of the content.

All the electrical components forming the stove should be replaced exclusively by an authorised technical support centre using original pieces. **Stove maintenance must be carried out at least once a year and scheduled in advance with the technical support service**. Do not carry out any unauthorised changes to the equipment.

For safety purposes, remember:

- use of the stove is forbidden for children or unassisted disabled people;
- contact with the stove is not recommended if you are in your bare feet or with parts of your body wet;
- it is forbidden to change the safety or regulation devices without the authorisation or without the instruction of **Hoşseven Isı ve Yalıtım San.Tic.A.Ş**

The technician carrying out the installation must inform the user that:

1. In the event of water leakage, close the water supply and promptly inform the technical support service.

2. The operating pressure of the system must be periodically checked. In the event of non-use of the stove for a long period of time, intervention of the technical support service is recommended to carry out the following operations:

- turn off taps on the heating
- empty the heating if there is a risk of freezing.

When the stove is functioning, it can reach very hot to touch temperatures, especially on the external surfaces: operate with care to avoid burns.

The stove was designed to function in any climatic condition; in the event of particularly adverse conditions (wind, frost) the safety systems could intervene and switch off the stove.
If this occurs, urgently contact the technical support service and, in any case, do not disable the safety systems.

THANK YOU

Dear customer,
thank you and congratulations for making an excellent choice.
Your **Hosseven** stove allows you to have affordable quality, offering you the highest performance with contained consumption and total practicality. A few suggestions follow, if we may, to get the most from your stove and allow you to fully enjoy all the benefits it can and wishes to give you. We intend to follow our customers closely, to offer excellent customer service to anyone using our technology.

Hosseven would like to thank you for choosing us
and we wish you many happy times in the company
of your pellet stove

SAFETY INFORMATION

The stove must be installed and inspected by specialist staff trained by head office. Please carefully read this user and maintenance manual before installing and operating the stove. If you require further clarification, contact your nearest Hoşseven Isı ve Yalıtım San.Tic.A.Ş dealer.

ATTENTION

- Prepare the installation location of the stove according to local, national and European regulations.
- The stove must only be powered using high quality pellets with a diameter of 6 mm as described in the dedicated chapter.
- **The stove cannot burn traditional wood.**
- **It is forbidden to use the stove as an incinerator. DANGER OF FIRE!!!**
- **Installation, electrical connection, verification of functioning and maintenance must be carried out by qualified and authorised staff.**
- **Improper installation or poor maintenance (non-conformity with what is reported in the following booklet) may cause damage to people or property. In this condition HOŞSSEVEN is released from all civil or criminal liability.**
- Before connecting the stove to electrical power, the connection of the discharge tubes (specifically for pellet stoves, not in aluminium) with the flue must be complete.
- The protection grid placed inside the pellet tank must never be removed.
- There must be a sufficient exchange of air in the room in which the stove is installed.
- Never open the door of the stove when functioning. **DANGER OF FIRE!!!**
- **It is forbidden to operate the stove with the door open or with the glass broken. DANGER OF FIRE!!!**
- When the stove is working, the surfaces, the glass, the handle and the tubes are very hot: during functioning these parts can only be touched using adequate protection.
- **Do not switch on the stove without firstly carrying out a daily inspection as**

described in the MAINTENANCE chapter of this manual.

- **Do not dry washing on the stove. Any washing lines or similar must be kept an appropriate distance from the stove. DANGER OF FIRE!!!**
- Scrupulously follow the maintenance schedule.
- Do not switch off the stove by disconnecting the electrical mains connection.
- Do not clean the stove until the structure and ash are completely cold.
- Carry out all operations in a completely safe and calm manner.

GENERAL INFORMATION

The stove must be located inside the home.Because it is controlled by an electronic board, it enables completely automatic and uncontrolled combustion: in fact, the control panel regulates activation, the 5 power levels and switch off, guaranteeing safe functioning.
Most of the hot ash falls into a pan via the basket used for pellet combustion. On a daily basis, check if the basket is clean: because not all pellets are of the highest standard, they can leave residue which is difficult to remove.
The glass is equipped with a special air wash for self-cleaning: yet, it is impossible to avoid a slight yellowish film on the glass after some hours of functioning.
As previously mentioned, the stove must be powered by 6 mm diameter pellets, but can also function with pellets with a different diameter: in this case, contact your After Sales Service for technical advice.

Liability

With the delivery of this manual, **Hosseven** declines all civil and criminal liability for accidents deriving from the partial or total non-compliance with instructions contained in it.
Hosseven declines all liability deriving from improper use of the stove, from incorrect use by the user, from unauthorised changes and/or repairs and from use of non-original spare parts.
The manufacturer declines all direct and indirect civil and criminal liability due to:

- poor maintenance
- non-compliance with the instructions contained in this manual
- use not complying with safety directives

- use not complying with safety directives
- installation not complying with the standards in force in the country
- installation by unqualified and untrained staff
- changes and repairs unauthorised by the manufacturer
- use of non-original spare parts
- exceptional events

Spare parts

Exclusively use original spare parts. Do not wait for the components to deteriorate before replacing them. Replace a worn component before it is completely broken to prevent any accidents due to sudden breakage of the component. Carry out periodic maintenance controls as described in the dedicated chapter.

SAFETY DEVICES

The stove is equipped with sophisticated safety systems, which avoid damage to the stove and/or the home in the event of breakage of a single piece or faults on the flue. In any case, if an anomaly occurs, the pellets are immediately stopped from falling and the switch off phase activates.
The corresponding alarm is shown on the display. It is possible to see the details in the chapter dedicated to Troubleshooting

TECHNICAL FEATURES

Hosseven products are manufactured according to the directives:

- **89/106 EEC** construction materials
- **73/23 EEC** electrical safety
- **2006/42/ EEC** machinery
- **2004/108 EEC** electro-magnetic compatibility

And according to the standards:

- **EN 14785**
- **EN 60335.1 EN 50165**
- **EN 292 EN 294 EN 349**
- **EN 55014.1 EN 61000-3-2 EN 61000-3-3**
- **EN 55014.2**

		P20 LILY	P20 LILY Without room fan	P25 LILY	P15 IRIS	CAMELLIYA
Height	mm	1300	1184	1300	1092	1124
Width	mm	580	580	580	537	876
Depth	mm	640	640	640	692	394
Weight	kg	193	187	200	165	198
Diameter of smoke exit tube	mm	80	80	100	80	80
Min-max. thermal power	kW/h	3,0 - 20	3,0 - 20	3,0 - 20	3 - 15	3,0 - 16
Consumptiun min-max.	kg/h	0,8 - 4,4	0,8 - 4,4	1,2 - 5,11	0,8 - 3	0,8 - 3,3
Supply	V-Hz	230 - 50	230 - 50	230 - 50	220 - 50	230 - 50
Tank capacity	kg	33	33	33	25	33
Min-max. autonomy	h	41 - 7,5	41 - 7,5	32 - 6,5	40 - 8,5	41 - 10
Efficiency	%	90 - 93	90 - 93	90 - 93	90 - 92	90 - 94,8
CO at 13% O_2 min-max	%	0,012-0,032	0,012-0,032	0,012-0,032	0,012-0,032	0,012-0,032
Smoke mass min-max	g/s	5,7 - 12,0	5,7 - 12,0	5,7 - 12,0	5,7 - 12,0	5,7 - 12,0
Minimun Draft		10 Pa	10 Pa	0,1 mbar-10Pa	0,1 mbar-10Pa	0,1 mbar-10Pa
Smoke temperature min-max	°C	76 - 210	76 - 210	76 - 138	80 - 150	76 - 210
Energy efficiency class		A+	A+	A+	A+	A+

Fig.2

POSITIONING, ASSEMBLY AND INSTALLATION

Stove operating environment

Positioning of the stove inside the room is based on the most uniform way to heat the room. Before deciding where to locate the stove, you need to consider:

- the stove must be installed on a floor with an adequate load capacity. If the present building does not meet this requirement, appropriate measures must be taken (e.g. load distribution slab);
- the combustion air cannot be drawn from a garage or from an area without ventilation or air exchange, but from an open space or outdoor area;

- installation is forbidden in bedrooms, in bathrooms or showers, and where a heating device is already installed without an autonomous air flow (fireplace, stove, etc.);
- positioning is forbidden in environments with an explosive atmosphere;
- in the event of wooden floors, prepare a floor-saving platform (slab in glass or steel);
- installation is preferred in a large, central room in the home to ensure maximum heat circulation;
- connection to the electrical supply is recommended with a earthing (if the cable supplied is not long enough to reach the nearest socket use an extension with an earthing);
- according to the installation standard and standards in force in the relevant country, the stove should be positioned in a location where the necessary air flows for com bustion of the pellets (circa 40m³/h must be available): the volume of the room must not be less than 30 m³.
- Installation of the device must guarantee easy access to clean the device, the gas discharge ducts and the flue.

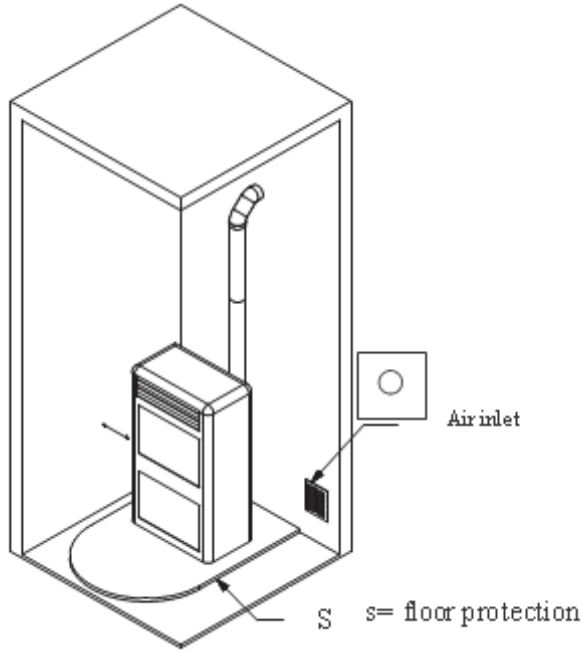
Installation and assembly of the stove must be carried out by qualified staff.

The room must be:

- prepared to meet the functioning environmental conditions
- prepared with an adequate smoke evacuation system
- equipped with an electrical power supply 230V 50Hz (EN73-23)
- equipped with external aeration (minimum section 100 cm²)
- equipped with a CE compliant earthing system

- **IMPORTANT!** If the installation of the product is supposed to be next to flammable wall, the minimum distance, indicated on the label located on the back of the stove, must be respect.
  In case the product is installed next to unflammable walls no specific distances are required.

Appliance categories	Reference standard	Percentage of the net opening section with respect to the appliance fumes outlet section	Minimum net opening value of the ventilation duct
pellet stoves	EN 14785	-	80 cm²
Boilers	EN 303-5	50%	100 cm²



Recommended distances to comply:

- Side wall of stove 20 cm
- Overhead shelving 20 cm
- Upper frame 20 cm
- Side frame 20 cm

The following indications could vary due to regional or national standards. Standards must always be complied with for the location in which the stove is installed (contact an authorised Hoşseven dealer)

Installation of the flue

The smoke outlet system functions by depression in the combustion chamber via an extractor placed on the end part of the stove (force drawn). Therefore, it is very important for the smoke outlet system to be hermetically sealed with special tubing (in steel, not aluminium) containing special silicone seals.
Discharge smoke evacuation must occur outside the home in open spaces over the roof and cannot occur in enclosed areas or semi-enclosed areas such as garages, attics or any place where gas can concentrate.
The surfaces of the outlet tube can reach high temperatures. Avoid contact with people or property. Smoke discharge must be prepared in compliance with the standard UNI7129/92, UNI 10683 and EN14785

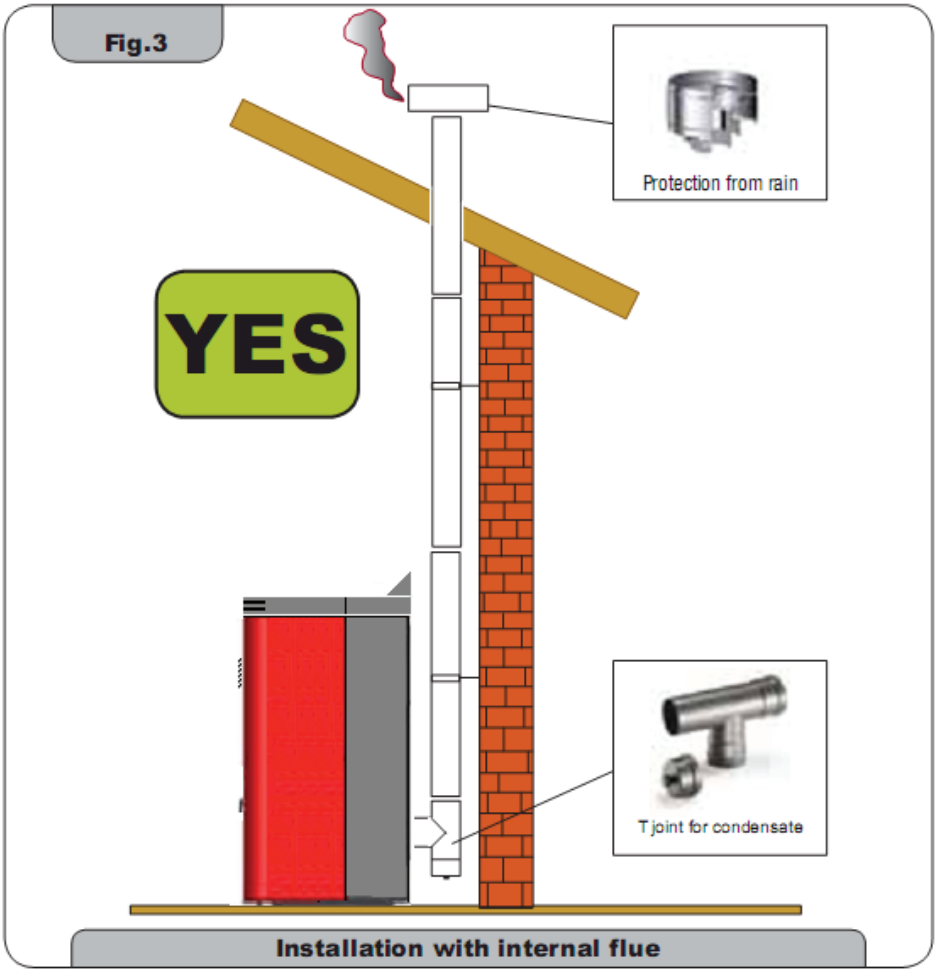
Flue

Stove functioning is independent from the chimney suction system thanks to the smoke extractor which deals with the evacuation of all combustion gases from the stove. In any case, poor natural smoke extraction (flue blocked) causes the block of the stove, thanks to an alarm that intervenes, indicating A003 on the display.

External air intake.

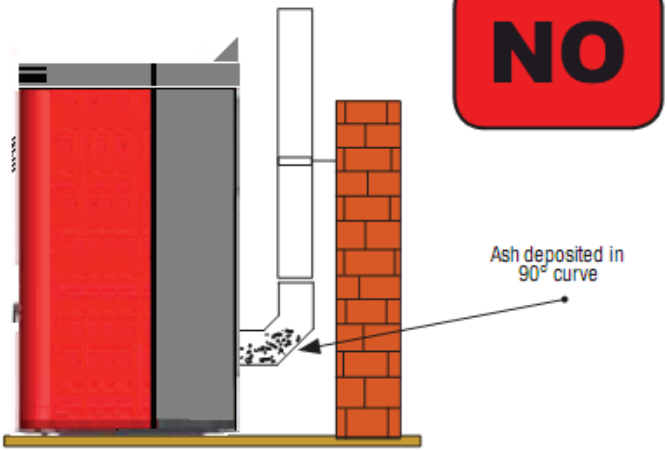
In hermetically closed environments and with low refreshed air, functioning of the stove can lead to reduced oxygen. In this case, the presence of this external air intake enables the possibility of taking the necessary oxygen for combustion.

EXAMPLES OF INSTALLATION

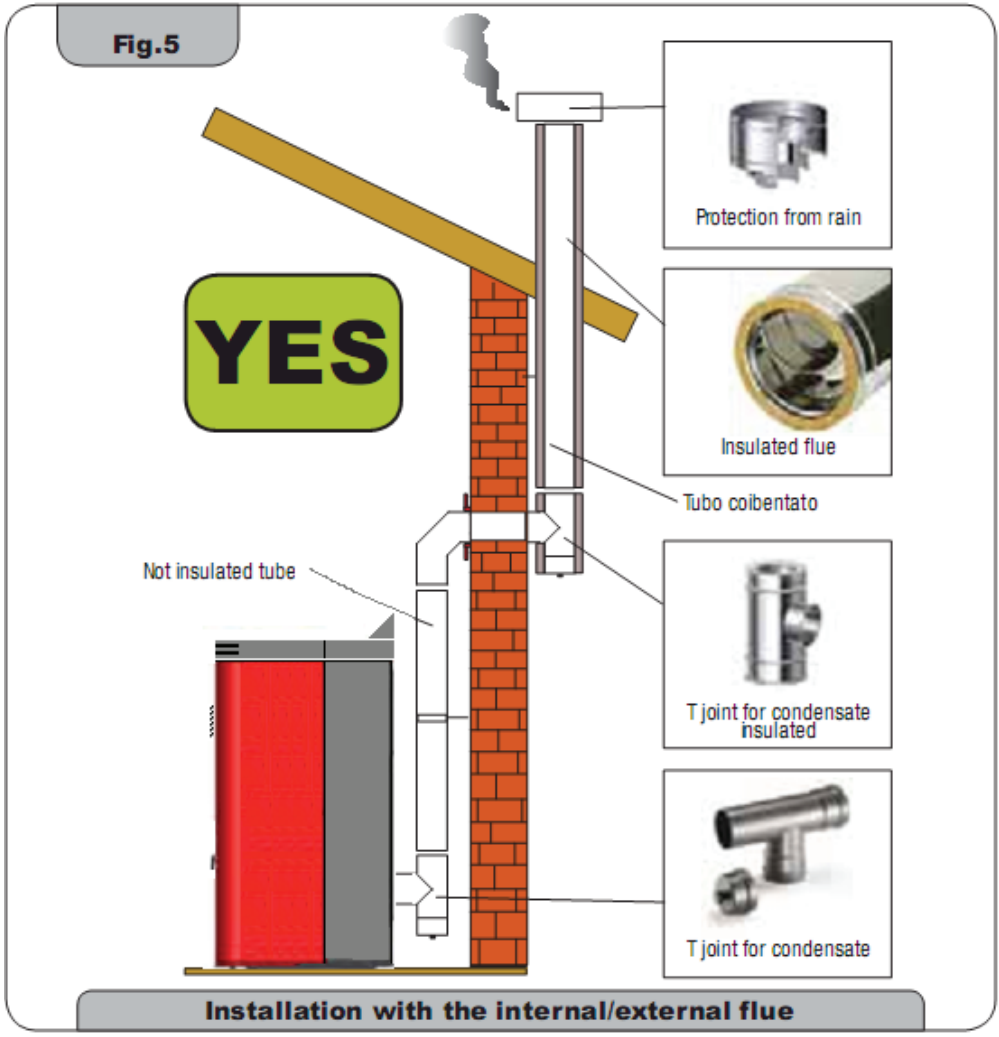


This type of installation (See **Fig. 3**) no need for insulated flue, as the entire smoke duct was assembledinside the home. In the lower part of the flue, a "T" joint was installed with an inspection plug.
It is not recommended to install a 90° curve as the first piece, because the ash would quickly obstruct the smoke passage,causing problems for stove passage. (See **Fig. 4**)

Fig.4



This type of installation (See **Fig. 5**) no need for an insulated flue for the section inside the home, while the section placed outside must have insulated tubing.The lower part of the flue inside the home was assembled using a "T" joint with an inspection plug; externally, another type was assembled to enable inspection of the external section. This must be insulated. It is not recommended to install two 90° curves since the ash could quickly obstruct smoke passage, causing problems for stove suction. (See **Fig. 6**)



Installation with the internal/external flue

Fig.6

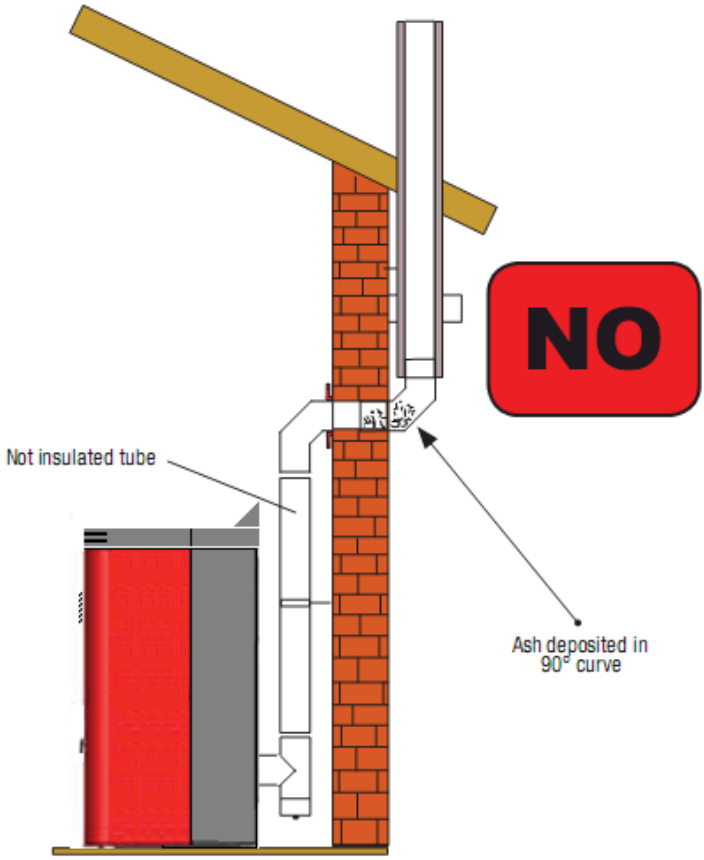
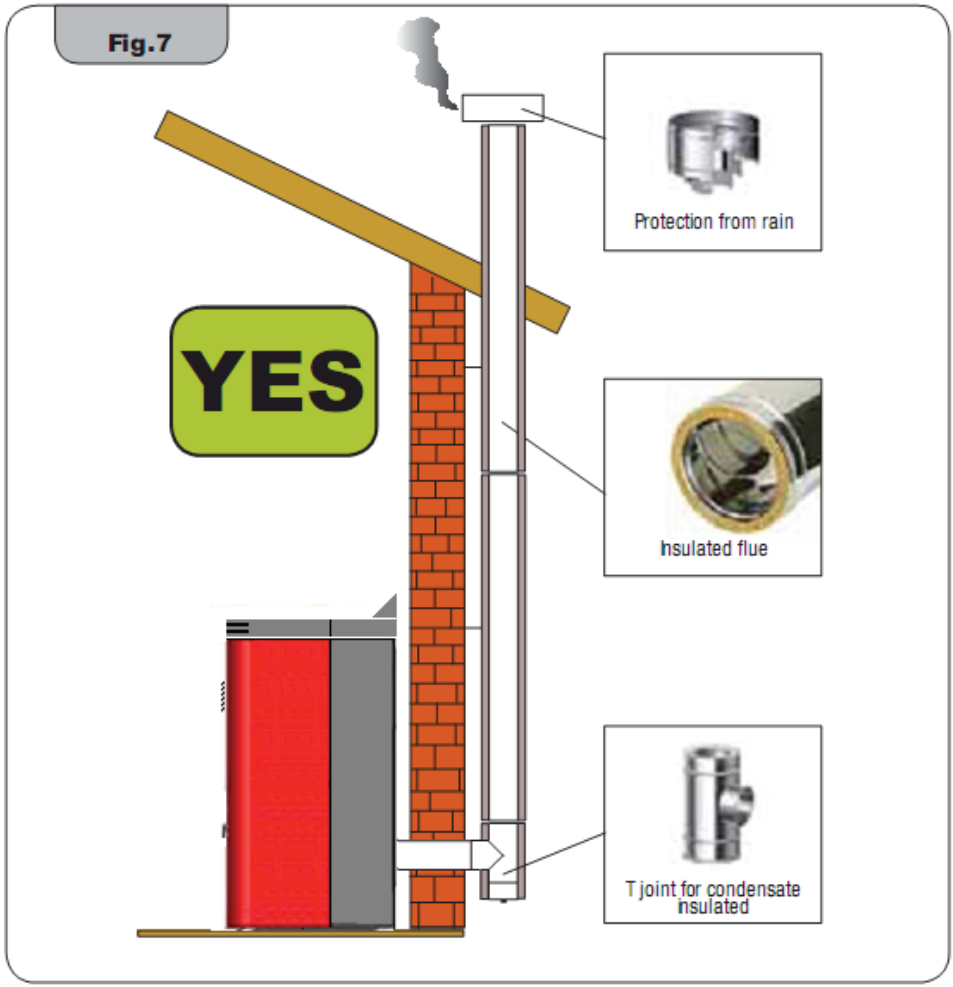
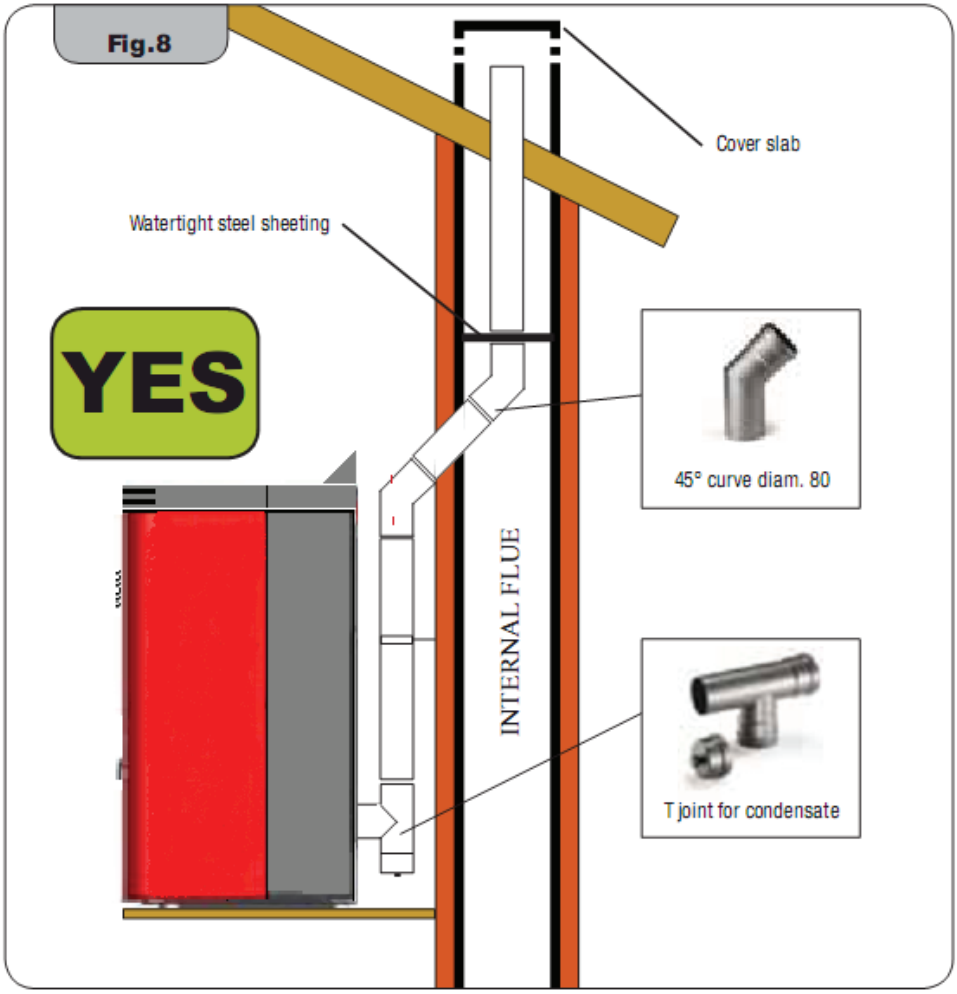


Fig.7

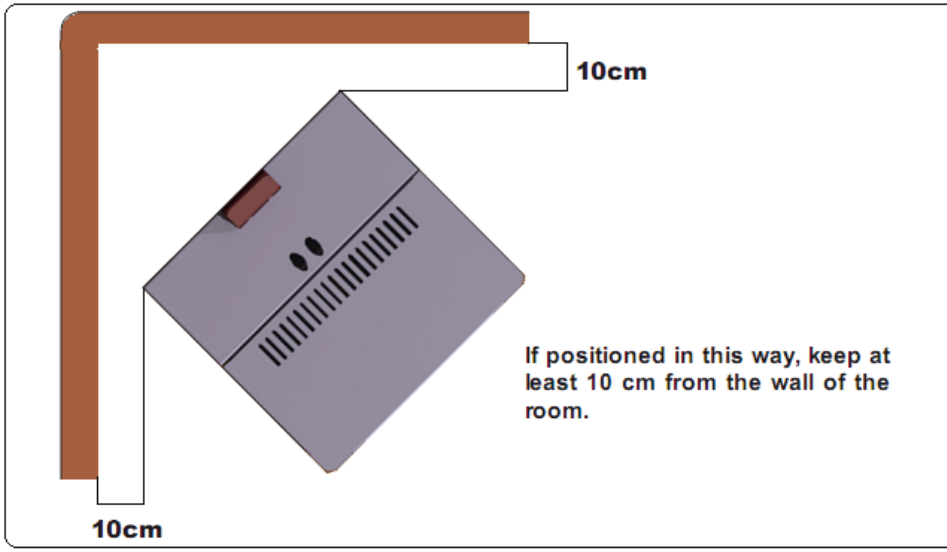

YES
Protection from rain
Insulated flue
T joint for condensate insulated

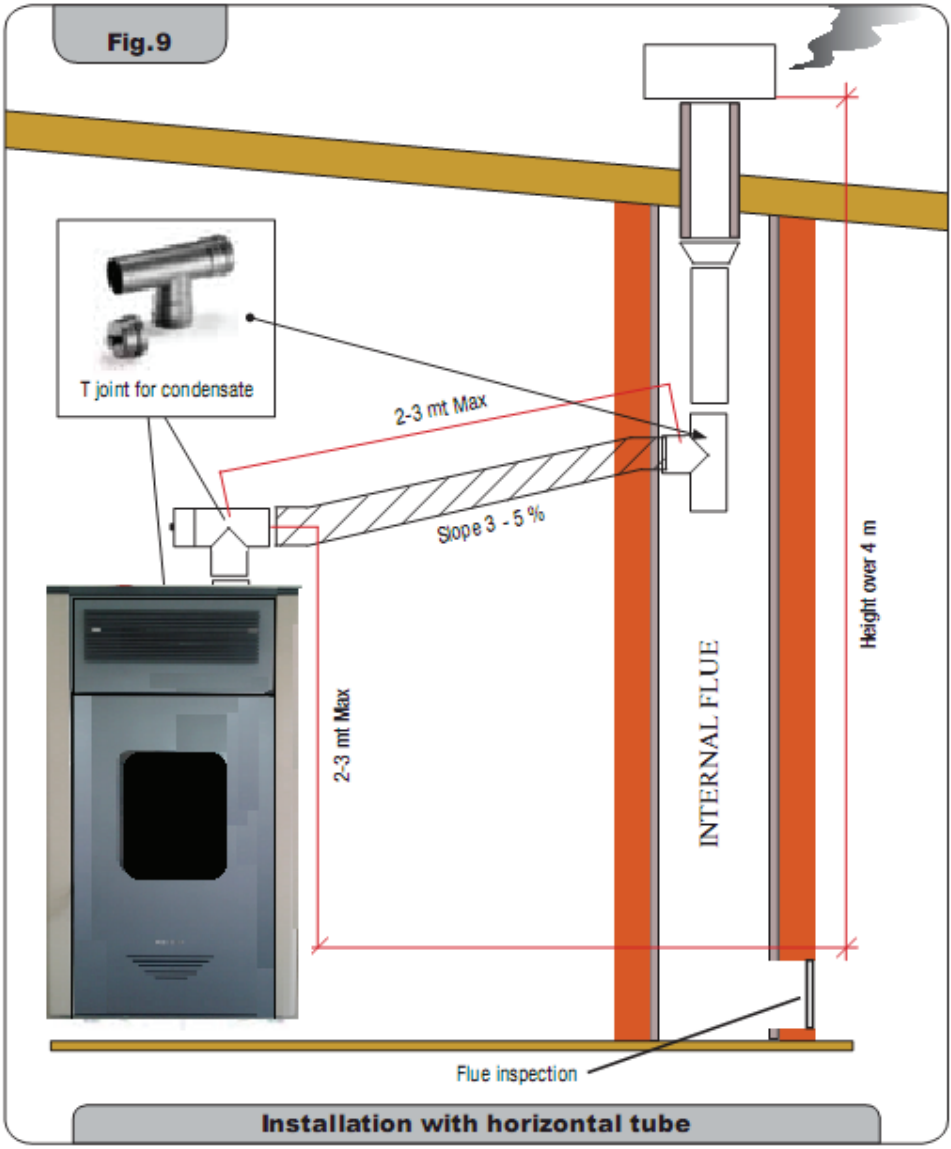
This type of installation (See **Fig. 7**) required an insulated flue, since the smoke duct was assembled outside the home.
The lower part of the flue has an assembled "T" joint with an inspection plug.
It is not recommended to install a 90° curve as the first initial piece, because the ash could quickly obstruct the smoke passage, causing problems for stove suction. (See **Fig. 4**)



This type of installation (See **Fig. 8**) does not require an insulated flue, since part of the smoke duct was assembled inside the home and part inside an existing flue. The lower part of the stove has an installed "T" joint with an inspection plug. It is not recommended to install a 90° curve as the first initial piece, since the ash could quickly obstruct the smoke passage, causing problems for stove suction. (See **Fig. 4**).

Note the use of 2 curves at 45°, to guarantee the ash does not fall into the "T" joint with inspection.





Installation with horizontal tube

In this type of installation (See **Fig. 9**) an horizontal section is required to connect to an existing flue. Comply with the slope indicated in the figure, to reduce depositing ash in the horizontal tube section. In the lower part of the flue, a "T" joint was assembled with an inspection plug. It is not recommended to install a 90° curve as the first initial piece, since the ash could quickly obstruct the smoke passage, causing problems for stove suction. (See **Fig. 4**)

It is absolutely forbidden to use a mesh at the end of the discharge tube, which could case poor functioning of the stove. It is compulsory to use watertight tubing with silicone seals.

Hydraulic installation

Safety devices for closed tank system should be appropriate to the standart EN 14785/2006

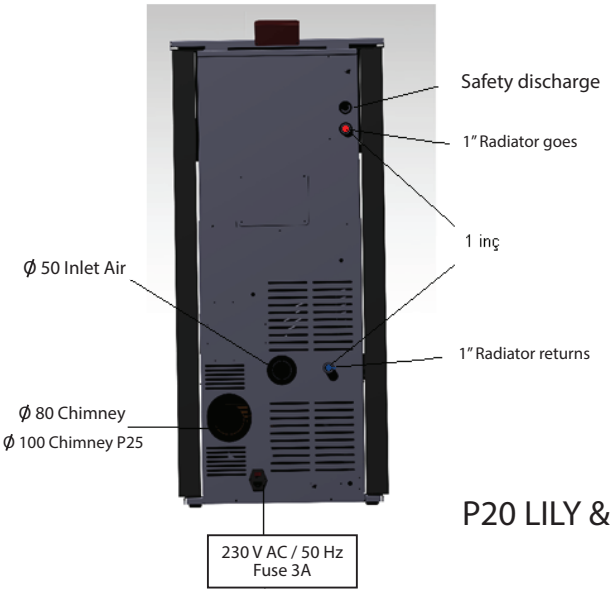
Installation advice

Having positioned the new stove and installed all the smoke discharge tubing, it is possible to connect the hydraulic system. When filling the stove, check the air discarge valve (Fig 10) functions correctly by bleeding air from the system. For installation of an additional expansion tank, remember that normally 1 litre of expansion tank compensates 10 litres of the system and at least one litre is always specifically for water inside the stove. Our stoves are equipped with a 8 litre expansion tank (LILY and CAMELLIA)

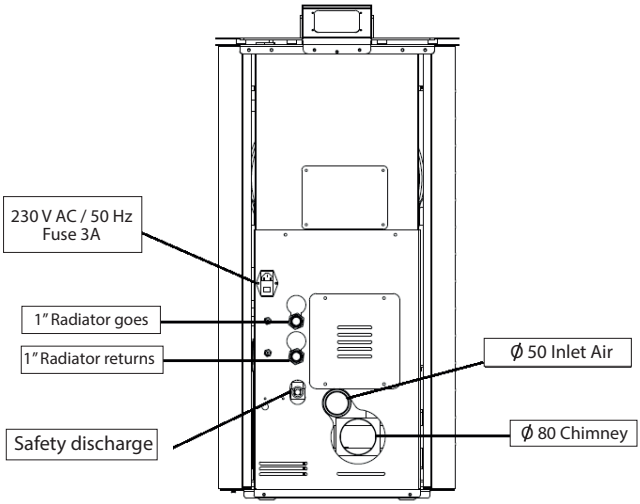

Fig.10

FILLING MUST BE CARRIED OUT USING A "T" JOINT PLACED ON THE HEATING SUPPLY, LOADING TO A MAXIMUM OF 1.2 BAR WITH COLD WATER (SEE FIG. BELOW).

Correctly connect the boiler connections (see Figure 12) to the hydraulic system, bringing pressure of the system from 1 to 1.3 bar when the stove has not yet been switched on (in the event the system is not a closed tank system, but has an open tank, it is necessary to change the setting on the menu, which is reserved for the authorised technician). Now proceed to bleed the hydraulic system using the valve assembled on the boiler or using the valves assembled on the radiators. This operation can be carried out multiple times, even after activation of the boiler since, from the time the temperature of the water starts to increase, the air bubbles move towards the high part of the boiler.



P20 LILY & P20 LILY Without room fan
P25



P15 IRIS

CLEANING

Before any cleaning operation of the stove, implement the following precautions:

- Ensure all the parts of the stove are cold.
- Ensure the ash is completely cold.

CAREFULLY READ THE FOLLOWING INDICATIONS FOR CLEANING! NON-COMPLIANCE CAN LEAD TO STOVE FUNCTIONING PROBLEMS.

Clean the surfaces

To clean the surfaces of the metal parts, use a cloth wet with water or at most water and soap. Attention, use of abrasive detergents or diluents can damage the surface of the stove.

Grate cleaning should be carried out before each switch on

It is necessary to check the grate, where combustion takes place, is clean and that no dirt or residue block the holes, to always guarantee optimum combustion of the stove, avoiding possible overheating which could cause colour changes to the paint or door abrasion. Furthermore, poor cleaning of the grate can cause problems for machine switch on.

Only a tidy, clean grate can guarantee problem-free functioning of the stove. During functioning, deposits can form which must be immediately eliminated. Check cleaning of the grate which must be as in Figure 13-A; if it resembles the conditions in Figure 13-B, accurate cleaning must be carried out. The grate cleaning periods are linked to the quality of the pellets used. It may happen that using a new set of pellets, even of the same brand, differences can occur in combustion which could lead to the more or less residue. Correct cleaning, daily, enables the stove to burn in an optimal manner and provide constant heat yield, avoiding malfunctions which over time could require the intervention of a technician to reset the machine.

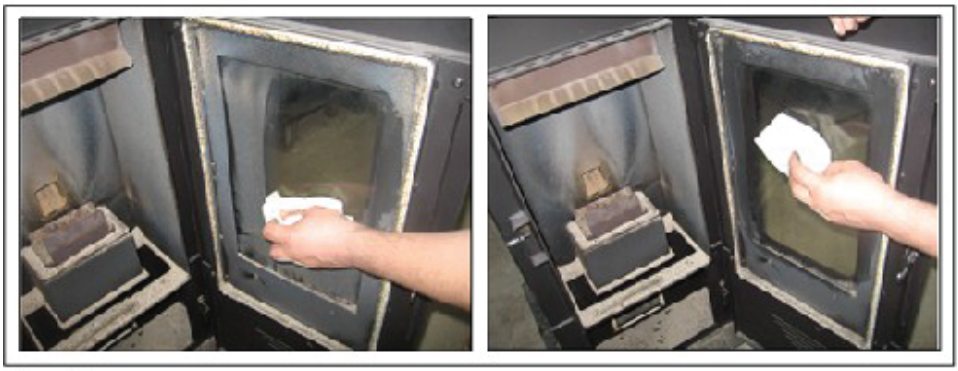


Fig. 14

IF THE GLASS SHOWS ANY SIGN OF DAMAGE, DO NOT START THE STOVE UNTIL THE GLASS HAS BEEN REPLACED.

WARRANTY

Warranty Certificate

Hoşseven would like to thank you for agreeing to buy one of our pellet stoves and invites you, the customer, to:

- note the instructions for installation, use and maintenance of the stove.
- note the warranty conditions reported below.

The warranty form attached to the stove must be compiled and stamped by the installer to activate the warranty.
If on the contrary, the product warranty is not valid.

Warranty conditions

The warranty covers manufacturing material defects, provided the product was not subject to breakages caused by improper
use, negligence, incorrect connection, tampering or installation errors.
Not covered by the warranty:

- the door glass;
- the fibre seals;

THE KEYBOARD REMOTE CONTROL

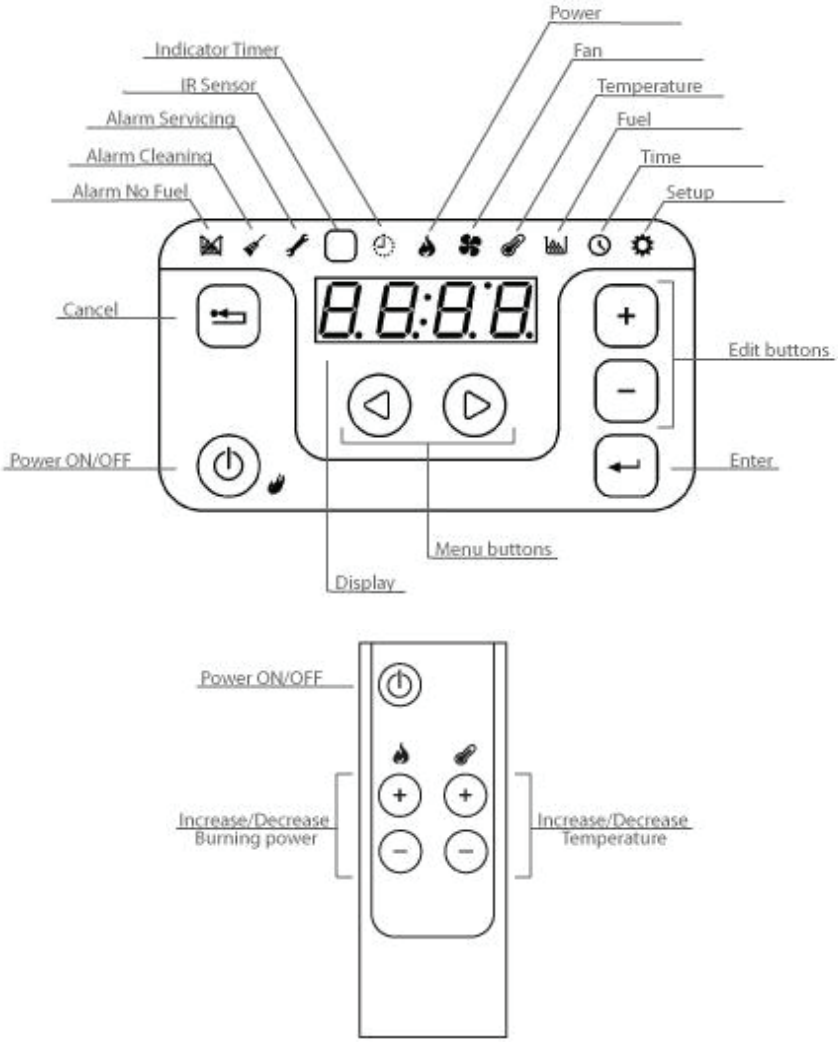


Figure 15: Keyboard and remote control

The Fumis ALPHA capacitive touch keyboard is designed intuitively. It enables users at home to operate with the Fumis ALPHA controller.

Note
For best performance keep the keyboard clean. Stains (for example, grease) on the buttons can send the signal that the button was pressed.

The Fumis ALPHA infrared remote control is intended for day-to-day use when the combustion system is fully configured and operational. It is used for modifying the burning power and temperature settings, and enables you to turn the combustion system on or off. The remote control unit is optional.

At the top of the Fumis ALPHA keyboard are located indicators for various alarms, timer mode operation, and menus. The IR sensor is used for remote control unit.

The display shows the set or current values for the currently selected menu option. With buttons you can navigate through the menu and control the operation of the Fumis ALPHA controller. Refer to the *Table 2: Fumis ALPHA keyboard buttons* on page *93* for descriptions of the buttons.

The Fumis ALPHA keyboard is also equipped with the beeper, which provides the keyboard feedback signals. The following sound signals are available:

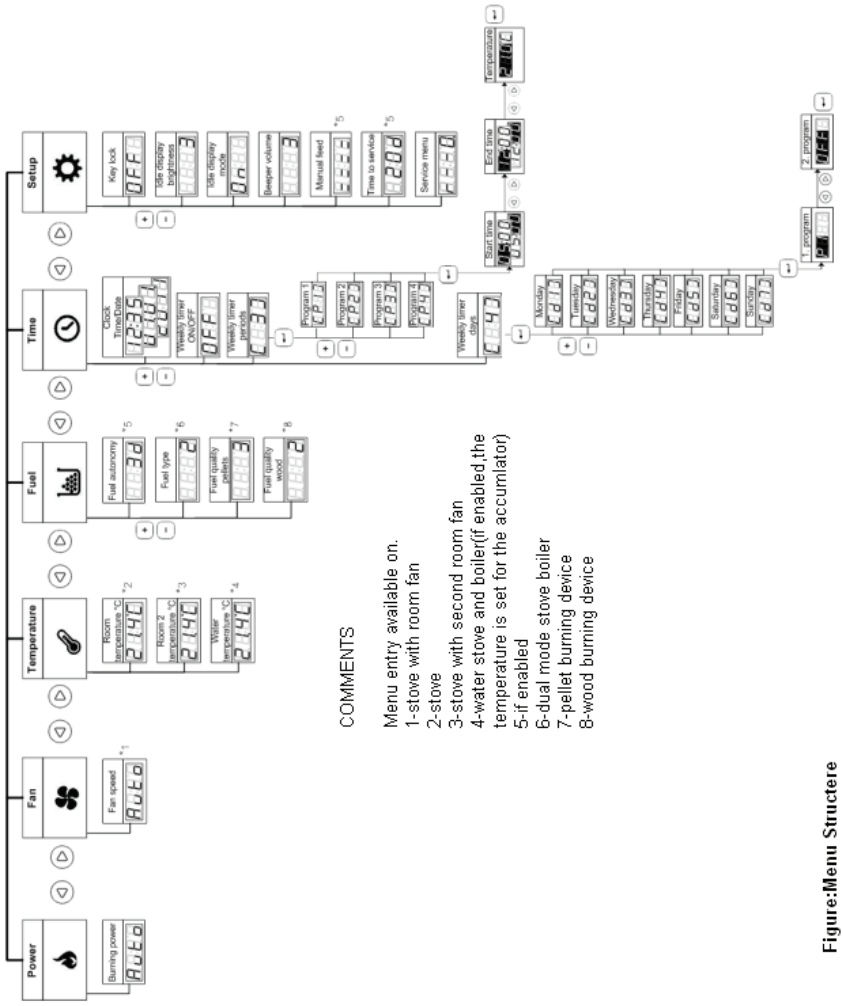
- Short high tone: sounds when navigating the menu and editing the settings
- Long low tone: sounds in case of an invalid operation (wrong button pressed)
- Long high tone: in case of and alert, this tone sounds with the user defined loudness, and in

case of an error, this tone sounds with 100% loudness. For description of alerts and errors, refer to chapter

Button	Description
	Power ON/OFF button is used for turning the combustion system on or off. Press and hold the button for 1 second.
	Menu buttons are used for navigating the first level menu context. The currently selected menu context is indicated with the corresponding icon at the top. In addition, these buttons are used in the edit mode.
	Edit buttons are used for navigating the submenus and increasing/decreasing values in the edit mode, when the selected value blinks.
	Enter button is used for entering the edit mode and confirming the set values, or selecting the additional submenus.
	Escape/Cancel button is used for discarding the changes and returning up one level in the menu. If you press and hold this button for more than 3 seconds, the last error or alert code is displayed.

Table 2: keyboard buttons

Menu structere



COMMENTS

Menu entry available on.
1-stove with room fan
2-stove
3-stove with second room fan
4-water stove and boiler(if enabled,the temperature is set for the accumulator)
5-if enabled
6-dual mode stove boiler
7-pellet burning device
8-wood burning device

Figure:Menu Structere

Note

The Fumis ALPHA menu structure depends on the configuration and options. The menu structure in Figure 35 shows all possible menu entries. Depending on the selected configuration, some entries are not available. In such cases the menu entry is not included and submenus are renumbered accordingly.

The display values are for representational purposes only and may differ from the actual display values.

Navigating the menu

To navigate the first level menu context use the left and right arrow buttons. The selected menu context icon is lit. The display shows the setting for the first submenu entry.

To navigate the second level menu (the submenu), use the plus and minus buttons to move up and down. The menu structure in the figure is inverted, so it may seem you are moving down the menu, but you are actually going up. For easier navigation through the second level menu, the corresponding entry number in brackets is displayed briefly.

To modify a setting in the menu, press the Enter button to enter the edit mode for the selected setting. The display value starts blinking. Use the plus and minus buttons to change the value. To move through the steps in the edit mode, use the left and right arrow buttons. When finished, press the Enter button to save the setting and exit the edit mode. The display returns to the menu entry you edited.

The display shows the set value, or the actual value, depending on the setting. For example, when you edit the temperature, you enter the desired room temperature. After you exit the edit mode, the display shows the actual temperature (which may differ from the set temperature). When you edit the fuel quality setting, the display shows the set value.

To enter the third level menu, press the Enter button and then use the plus and minus buttons to move between the entries. The procedure for modifying the settings is the same as in the second level menu.

To exit the edit mode without saving the changes, press the Cancel button. This button is also used for returning up one level in the menu. For example, if you are editing the Program 3 in the Weekly Timer Periods menu entry, press the Cancel button to discard the changes and return to Program 3. Pressing the Cancel button moves to Weekly Timer Periods, then to Clock, and then to Burning Power in the Power menu context.

Setting the clock

The Fumis ALPHA keyboard enables you to set the current time and date.

To view the current time, press the menu button to enter the *Time* context. The current time is shown on display.

To set the time and date, in the *Time* context press the Enter button. The hour value is blinking. With the edit buttons set the desired hour. Then press the right menu button. The minute value is blinking. Set the desired minute. Press the right menu button and set the date in the same manner. The date is set in the format dd.mm.yyyy. Then press the right menu button and set the day of the week. Set the corresponding number between 1 (Monday) and 7 (Sunday). Confirm the time and date settings by pressing Enter.

Fig17

Setting the room temperature

With the Fumis ALPHA controller you have two options for setting the room temperature. You can:

- Use weekly timer programs
- Set or modify the room temperature manually

Using the weekly timer programs you can fully automate the operation of your combustion system and little or no user intervention is required. For more information refer to chapter *Setting the weekly timer programs* on page *33*.

You can also set or modify the room temperature manually. If you are using the weekly timer programs, this enables you to temporarily override the program settings. The program settings are reset when conditions, set with the timer, are met (for example, end time is reached and the combustion system turns off).

To view the current room temperature, press the menu button to enter the *Temperature* context menu. The current room temperature value is shown on the display.

To set the desired room temperature, in the *Temperature* context menu press the Enter button. The display shows the set target temperature in the edit mode (the value is blinking). You can increase or decrease this value with the Edit buttons. When finished, press the Enter button to confirm the set temperature. The display shows the current room temperature.

Note
You can also use the remote control to set the desired room temperature.

In case your combustion system is equipped with the second room fan, you can also set the desired temperature for the second room.

Note
The decimal points for setting the temperature depend on the configuration.

Fig18

Setting the output power

The Fumis ALPHA controller regulates your combustion system for optimum performance. You can override these settings and modify the burning power to reach the desired room temperature faster, or conserve fuel. The burning power setting influences the fuel feeder and fan speed settings.

Combine the burning power and fan speed settings to best suit your requirements. Note that if you set the burning power to *Hi*, the fan speed setting automatically sets to *Hi*.

The burning power setting represents the maximum burning power the

combustion system will use to heat up the environment. When the set temperature setting is reached, the burning power is decreased automatically.

To view the current burning power, press the menu button to enter the *Power* context. The current burning power level value is shown on display.

For faster heating up to the desired room temperature you can increase the burning power setting. In the *Power* context press the Enter button. The display shows the burning power in the edit mode (the value is blinking). You can increase or decrease this value with the Edit buttons. When finished, press the Enter button to confirm the set burning power. Display shows the current burning power level. The fuel feeder is dosing the fuel faster and the heat exchange fan operates faster to increase the output power. However, the fuel efficiency is lower.

To conserve with fuel and energy, you can decrease the burning power setting. The fuel feeder and fan will operate slower and the set room temperature is reached slower.

Note
You can also use the remote control to set the desired burning power.

Setting the weekly timer programs

The Fumis ALPHA controller enables you to set the weekly timer programs to automate the operation
of the combustion system. You can set six different programs and select three programs for each day of the week. The program defines the start time, the end time, and the desired temperature.

To set a program, press the menu button to enter the *Time* context and then press the edit button to select the *Weekly timer periods*. The display shows (3). Press Enter to select *Program 1*, display shows (P1), and then press Enter again to access the edit mode for Program 1. The start time hour value is blinking. With the edit buttons set the desired start time hour. Then press the right menu button. The start time minute value is blinking.

Set the desired start time minute. Press the right menu button and set the

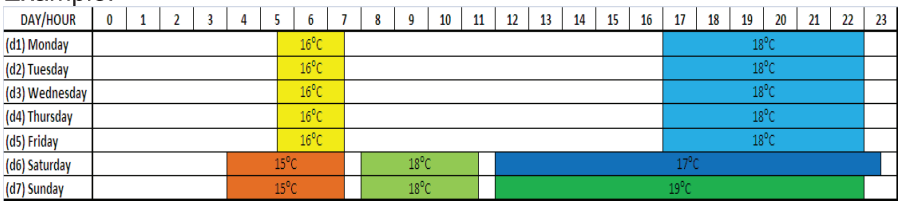
desired end time. Then press the right menu button to set the desired room temperature for the selected time period. Confirm the program settings by pressing Enter. Repeat the procedure to set the programs.

Example:

Program 1		Program 2		Program 3	
ON	OFF	ON	OFF	ON	OFF
05:30	07:30	08:00	11:30	12:00	23:00
16°C		18°C		19°C	
Program 4		**Program 5**		**Program 6**	
ON	OFF	ON	OFF	ON	OFF
17:00	23:00	20:00	22:30	04:00	07:00
18°C		17°C		15°C	

To set the programs for each day of the week, press the menu button to enter the *Time* context and then press the edit button to select the *Weekly timer days*. The display shows (4). Press Enter to select *Monday*, display shows (d1), and then press Enter again to access the edit mode for Monday. The 1. program value is blinking. With the edit buttons set the desired program. Then press the right menu button. The 2. program value is blinking. Set the desired program. Confirm the program settings by pressing Enter. Repeat the procedure to set the programs for all weekdays.

Example:



To enable or disable the operation of the combustion system with the

weekly timer programs, press the menu button to enter the *Time* context and then press the edit button to select the *Weekly timer* ON/OFF. Press Enter and toggle the weekly timer on or off. If you disable the weekly timer operation, set the combustion system operation manually.

Example:
You can disable the weekly timer programs in the time of vacations.

Setting the fuel options

The *Fuel* menu context shows the fuel autonomy and enables you to select the fuel quality. In the combined wood/pellet combustion systems, you can select the wood or pellet fuel type.

You can optimize the burning and feeder options based on the type and

efficiency of the fuel used. With the *Fuel quality* options you can select the level of pellet and wood combustion efficiency, where low value stands for more humid fuel with less combustion efficiency, and high value stands for fuel with high combustion efficiency. You can select between values 1 to 3.

Modifying the setup options

In the *Setup* menu context you can set the options for Key lock, Idle display brightness, Idle display mode, Beeper volume, Manual feed and view the Time to service.

The *Key lock* option enables you to lock the keyboard in order to prevent accidental changes of the settings. With the key lock enabled, you can navigate the menu to display current values, but you cannot edit any of the settings, except the Key lock itself. Note that this option does not disable the Fumis ALPHA remote control. The *Key lock* setting offers the following options:

- OFF: the Key lock is disabled, all buttons are available
- Lo: the edit mode is disabled (the Enter button is locked)
- Hi: the edit mode and the power on/off is disabled (the Enter button and the Power button are locked)

Tip We recommend you to use the Key lock option when cleaning the Fumis ALPHA keyboard.

You can increase or decrease the display brightness in the idle mode to conserve energy. As soon as you touch the keyboard, the brightness of the display will increase to default value.

The *Idle display mode* setting offers the following options:

- OFF: The keyboard stays in the selected menu context. In case you were in the edit mode, the changes are discarded and the edit mode is exited.
- Option 1: the keyboard exits the current menu context and cycles between the current room temperature, fuel autonomy and clock. In case the *Fuel Autonomy* is set to OFF, this menu context is skipped.

- Option 2: The keyboard exits the current menu context and moves to the *Temperature* menu.he display shows the current room temperature.
- Option 3: The keyboard exits the current menu context and moves to the *Clock* menu. The display shows the current time.
- Option 4: The keyboard exits the current menu context and moves to the *Fuel autonomy* menu. In case the *Fuel Autonomy* is set to OFF,the keyboard exits this menu context and moves to the *Temperature* menu.

Beeper volume setting controls the loudness of the keyboard sound signals.

With the option *Manual feed* you can manually start the feeder. The feeder will operate for a short while and then stop. With this option you can clean or empty the feeder.

The *Time to service* shows in days when you should contact the service personnel to perform regular maintenance of your combustion system. This value (in days) is read-only can be modified by authorized personnel only.

To modify the setup options, press the menu button to enter the *Setup* context. The set idle display brightness setting is displayed. To move between the setup options, press the edit buttons to display the settings. To modify a setting, press Enter and use the edit buttons to increase/decrease

the value. When finished, press the Enter button to confirm the set value.

MAINTENANCE

Maintenance warnings

Inspection and maintenance operations must be carried out by specialised technicians who are aware of the directions reported in this manual.
Before carrying out any work, make sure that:

- The power cable's plug has been pulled out, as the generator might have been programmed to turn on.
- All the generator parts are cold.
- The ashes are completely cold.

- Periodically inspect the T-shaped fitting on the smoke pipe located on the outlet of the generator by removing the hermetic container, remove any ash and carefully place back the plug with the gasket.

Attention!
Have the generator, vents and smoke pipe cleaned and checked by specialised personel every

DAILY CLEANING TO BE CARRIED OUT BY THE USER

Daily cleaning must be carried out by the generator's user with the utmost care after reading the instructions related to the procedures that need to be carried out later described in this manual.

The images are for illustration purposes.

DAILY

Open the door - Clean the glass with a damp cloth

Never spray the detergent or any other liquid used for cleaning directly on the ceramic glass

CLEANING THE BURN POT AND COMBUSTION CHAMBER

1. Vacuum the residues in the burn pot
2. Take out the burn pot from the designated compartment;
3. Vacuum the ash from the burn pot's seat and the combustion chamber (Fig 19)
4. Use the special poker supplied to clear the holes in the burn pot.
5. Place back the burn pot and push it towards the hearth wall.
6. If there is an ash collector tray, vacuum the ash deposits

Please note: Use a sultable vacuum cleaner with a special container to separate the collected ash.

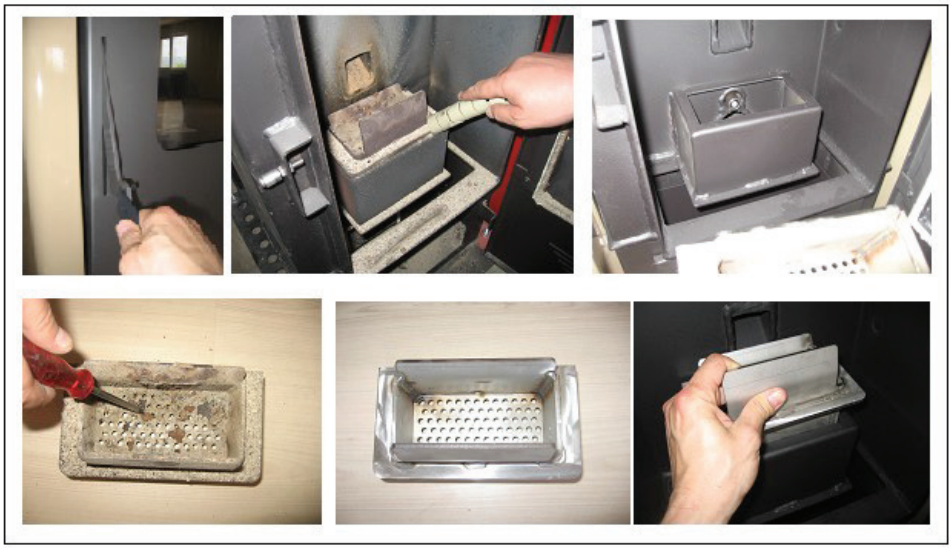


Fig 19

EVERY 3/4 DAYS - WEEKLY

ASH DRAWER

Every 3-4 days check the ash drawer and empty it at least one/twice a week.
If there is a lower door, open/remove it.
Take out the removable ash drawer and empty it in a special container.
Vacuum the area underneath the removable ash drawer. Once you have cleaned it, place back the removable drawer and close/place back the external door.
In some stoves the ash collector tray is located in the combustion chamber. In this case, just open the door and vacuum the ash from the tray.

Fig 20

To top cover is taken
Right and left sticks pipe conduit to be cleaned is provided

Cleaning the lower sump (if there is one)

Some stove models have an inspection sump behind the ash drawer or underneath the combustion chamber. In this case, just open, remove the clamping screws and vacuum the ash inside.

Fig 21

ROUTINE MAINTENANCE

In order to guarantee proper functioning and safety of the device, the operations indicated below must be performed every season or more often when necessary.

Door, ash drawe and burn pot gaskets

The gaskets ensure the tightness of the generator and its consequent proper operation.
They must be checked periodically: in the event they are worn or damaged they must be replaced immediately. These operations must be carried out by a qualified technician.

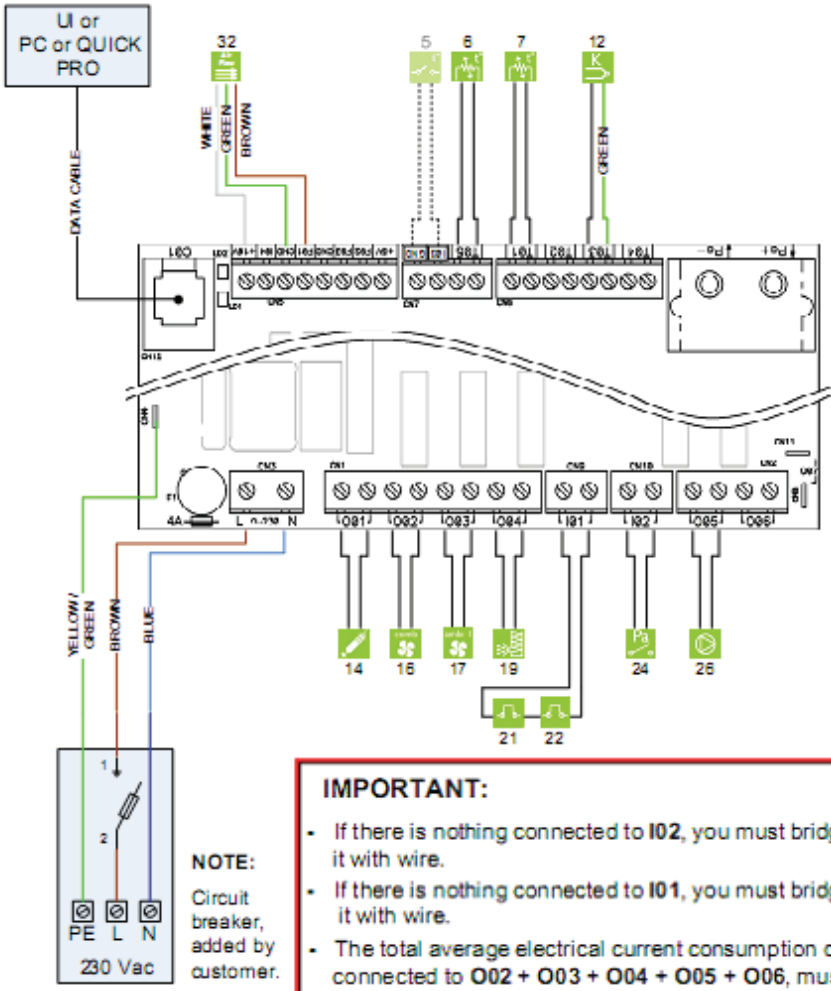
Connection to the flue

Vacuum and clean the pipe that leads to the flue yearly or whenever necessary. If there are horizontal sections, the residues must be removed before they can obstruct flue passage.

ALWAYS FOLLOW THE INSTRUCTIONS IN MAXIMUM SAFETY CONDITIONS!

- **With the generator fully cooled down,switched off and disconnected from the mains electricity.**
- **Failure to clean jeopar dises safety!**
- **To ensure correct operation the generator must undergo routine maintenance by a qualified technician at least once a year.**

ELECTRICAL LAYOUT



NOTE:

Circuit breaker, added by customer.

IMPORTANT:

- If there is nothing connected to **I02**, you must bridge it with wire.
- If there is nothing connected to **I01**, you must bridge it with wire.
- The total average electrical current consumption of devices connected to **O02 + O03 + O04 + O05 + O06**, must **NOT** exceed **1,2A**.
- The power of the IGNITER, connected to **O01**, must **NOT** exceed **450W**.

1.DOOR OPEN SWITCH	18.FAN 3 as SECONDARY ROOM FAN
2.PELLETS LEVEL SENSOR (capacitive switch)	19.PELLETS FEEDER 1
3.LEVELTRONIC	20.PELLETS FEEDER 2
4.HALL SPEED SENSOR	21.SAFETY TEMPERATURE LIMITER (WATER) STB
5.EXTERNAL THERMOSTAT	22.SAFETY TEMPERATURE LIMITER (PELLETS) STB
6.WATER TEMP. SENSOR (NTC)	23.ADDITIONAL SAFETY SWITCH
7.AIR TEMP. SENSOR (NTC)	24.AIR UNDER PRESSURE SAFETY SWITCH
8.BACK WATER TEMP. SENSOR (NTC)	25.WATER UNDER PRESSURE SAFETY SWITCH
9.SECONDARY ROOM TEMP. SENSOR (NTC)	26.WATER PUMP
10.ACCUMULATOR TEMP. SENSOR (NTC)	27.BACK WATER PUMP (By-pass)
11.FLAME DETECTION SENSOR	28.MODULATED WATER PUMP (Inverdet pump)
12.FLUE GAS TEMP. SENSOR (K-Type)	29.ASH EXTRACTION AUGER
13.AIR FLOW SENSOR (Tube connection)	30.MECHANICAL CHAMBER CLEANING
14.IGNITER (max. 450W)	31.AIR PULSE CLEANING
15.FAN 1 as PRIMARY COMBUSTION FAN	32. FLOWTRONIC
16.FAN 2 as CHIMNEY FAN or SECONDARY COMB. FAN	33.PELLET TEMP. SENSOR (NTC)
17.FAN 2 as AMBIENT FAN	34.SPECIAL OUTPUT
Mandatory for this configuration Optional (activation with PC-PRO)	INVERTER MOTOR CONTROL EXTERNAL POWER SETTING

LEGAL NOTICE:

»With installation of the Fumis product the fitter is pledging, that the product shall be set up the product according to producer's instructions and only into devices enabling a safe setting and operation of the product being accordant with applicable national and international standards. The buyer assumes the whole responsibility for damage that may arise as a result of incorrect installation of the Fumis product, installation of the product into device which doesn't assure safe operation or, regarding to actual circumstances, unsuitable setting operation of the product or device, and other damages which are result of unsafe characteristic of device, in connection with operation of the Fumis product.«

TROUBLESHOOTING

Indication	Code	Cause	Solution
Icon No fuel is blinking	A001	When the fuel in the container reaches the Low fuel level, the notification is triggered. This notification is available if you are using the Fuel autonomy option or your combustion system is equipped with the fuel level sensor.	Refill the fuel container. If you are using the *Fuel autonomy* option, reset this setting to *Full* by pressing the button ON/OFF on the user interface.
Icon No fuel is on	….	When the fuel in the container runs out, the notification is triggered. The combustion system turns off and cannot be restarted.	Refill the fuel container. If you are using the *Fuel autonomy* option, reset this setting to *Full* by pressing the button ON/OFF on the user interface.
***Icon Cleaning is blinking** ***Icon Cleaning is on**	A003 …..	The burning chamber or chimney are dirty and require cleaning. There is too much ash or unburned pellets in the burning chamber, or chimney is getting congested with soot.	Check and empty the burning chamber or contact the service personnel to sweep the chimney.
Icon Service is blinking	A004	The Fumis ALPHA controller battery is getting low. The combustion system is still operational.	Contact the service personnel to change the Fumis ALPHA controller battery. Do not attempt to change the battery on your own.

Icon Service is blinking	A005	The fan 1 speed sensor malfunctioned. The combustion system is still operational.	Contact the service personnel.
Icon Service is blinking	A007	The pressure sensor malfunctioned. The combustion system is still operational.	Contact the service personnel.
Icons Cleaning and Service are blinking	A002	The *Time to service* shows in hours when you should contact the service personnel to perform regular maintenance of your combustion system. The *Time to service* counter counts down in hours, and when this counter reaches zero, the Service icon starts blinking. This value (in hours) is read-only can be modified by authorized personnel only.	Contact the service personnel.
Icons No fuel, Cleaning and Service are blinking	A006	The combustion system is equipped with the door sensor switch. Burning chamber or fuel container door is open.	Check and close the burning chamber or fuel container door. In case this cannot be performed or does not work, contact the service personnel.
Fumis ALPHA remote control is not responsive		The battery of the Fumis ALPHA remote control is empty. The Fumis ALPHA remote control uses the CR2025 battery. You can also insert the CR2032 battery (recommended because of longer battery life-span).	Replace the battery. For instructions refer to the back side of the remote control unit.

Indication: **Icon Service is on**

Cause: The combustion system malfunctioned and is not operational. This can be due to:

Code E001: Keyboard error
Code E002: IR communication error
Code E003: RF communication error
Code E004: MB communication error
Code E101: Fire error or water overtemperature
Code E105: NTC2 error
Code E106: NTC3 error
Code E107: TC2 error
Code E108: Security switch error
Code E109: Pressure switch error
Code E110: NTC1 error
Code E111: TC1 error
Code E112: Fuel overtemperature
Code E115: General error

Solution: Note the error code and contact the service personnel.

What are wood pellets?

Pellets are composed of woodchip and sawdust produced in joineries. The material used cannot contain any foreign substances such as glue, lacquer or synthetic substances.
The wood is pressed using a perforated matrix: due to the high pressure the sawdust heats to activate the natural binders in the wood; in this way, the pellet maintains its shape, also without adding artificial substances. The density of the wood pellets varies based on the type of wood and can exceed 1.5 - 2 times that of natural wood.
The cylindrical sticks have a diameter of 6- 8 mm . and a variable width between 10 and 50 mm.
Their weight is equal to circa 650 KG/m. Due to the low water content (8 - 10%) they have high energy content.
The standards DIN 51731 define the quality of the pellet:

Length	ca. 10 - 30 mm	Residual humidity	ca. 6 - 12 %
Diameter	ca. 6 - 8 mm	Ash	<1.5%
Real weight	ca. 650 Kg/m³	Specific weight	>1.0 Kg/dm³
Heat power	ca. 4.9 kWh/Kg		

We recommend you do not rest the sack of pellets on the ceramic tiles when loading.

Pellets must be transported and stored in dry places. On contact with humidity they swell, therefore making them unusable: therefore it is necessary to protect them from humidity both during transport and storage. After Sales Service recommends a pellet with a diameter equal to 6 mm. **If you wish to use a pellet type with a different diameter contact the support centre for the due regulations of the stove.**

Combustion phase of flames simulating

1.phase

After pressing the ON button the device begins to take fuel and the heater is activated.

2.phase

Approximately after 4.5-5 minutes the first flame is formed.

3.phase

Approximately after 6,5-7 minutes the flame begins to grow.

4.phase

Approximately after 8-10 minutes it begins to reach the saturation point (flame lights up as to fill the container.) Gas of the flue is increases. The device is to control itself.

5.phase

Approximately after 12-14 minutes the complete combustion stage is reached.