

# **INSTRUCTION MANUAL PELLET HEATING STOVES AND PELLET STOVES**

**HYDRO KANTINA 20/24 KW**

**HYDRO CURVED FRONT 20/24 KW**

**HYDRO STRAIGHT FRONT 20/24 KW**

**HYDRO 13/17.5 KW**

**EV 14**

**EV 20**

**EV 24**

**EV 34**

**EV 50**

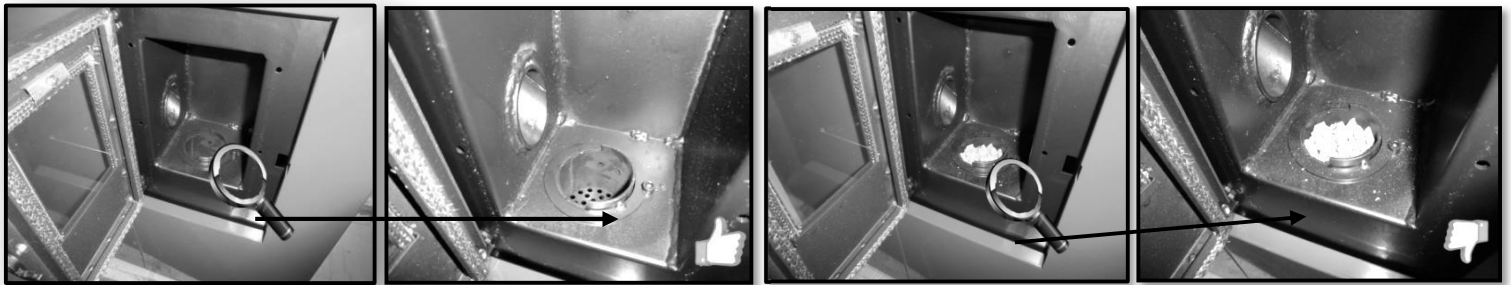




## IMPORTANT: PLEASE READ



1. Eva Stampaggi S.r.l. assumes no responsibility for damage to persons and/or property or for the malfunction of the stove resulting from non-compliance with the provisions of this Instruction Manual
2. The guarantee will remain valid for 1 year for professional operators and 2 years for consumers.
3. Stove installation must be carried out by qualified staff and pursuant to the regulations in force in the relevant country.
4. **EMPTY THE BURN POT** before trying to switch the stove back on in case of ignition failure or power outage. Failure to do so may also result in the breaking of the door glass.
5. **DO NOT POUR PELLETS BY HAND** in the burn pot to facilitate stove's ignition.
6. Should any anomaly concerning the flame be detected or, however, in any other case, **NEVER SWITCH OFF** the stove by disconnecting it from the mains. Use the relevant button. Disconnecting the stove from the mains will prevent exhaust fumes from being extracted.
7. Should ignition phase take longer than expected (due to damp or poor-quality pellets) generating excessive smoke in the combustion chamber, open the door to expel it, while remaining in a position that guarantees your safety.
8. It is highly important to use **GOOD QUALITY CERTIFIED PELLETS**. The manufacturer declines any liability for any malfunctions or damage to mechanical parts as a result of the use of poor-quality pellets.
9. The burn pot and the combustion chamber **MUST BE CLEANED DAILY**. The manufacturer declines any liability for any malfunctioning due to a failure to do so.
10. IT IS POSSIBLE TO DOWNLOAD THE INSTRUCTION BOOKLET FROM OUR WEBSITE [WWW.EVACALOR.COM](http://WWW.EVACALOR.COM)



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## SAFETY WARNINGS

The stoves were built in compliance according to standard EN13240 (wood stoves), EN 14785 (pellet stoves) and EN 12815 (kitchens and wood-burning stoves) using high quality and non-polluting materials. To make better use of your stove it is advisable to follow the instructions in this booklet.

Read this manual carefully before use or any maintenance operation.

Eva Stampaggi aims to provide as much information as possible to ensure safer use and to avoid damage to persons, property or parts of the stove itself.

Each stove is subjected to internal testing before shipment and as such residues inside the appliance may be found.

KEEP THE INSTRUCTION MANUAL FOR FUTURE REFERENCE  
FOR ANY REQUIREMENT OR CLARIFICATION PLEASE CONTACT  
THE AUTHORISED DEALER

- The burning of waste, in particular plastic materials, damages the stove or stove and the flue, and is also prohibited by the law against emissions of harmful substances.
- Do not use alcohol, petrol or other highly inflammable liquids to light the fire or poke it during operation.
- Do not introduce into the stove an amount of fuel greater than that recommended in this manual.
- Do not modify the product.
- It is forbidden to use the product with the door open or with broken glass.
- Do not use the appliance such as a clothesline, support surface or ladder etc.
- Do not install the stove in bedrooms or bathrooms if not certified as watertight.

**The pellets to be used are the following:**

The pellet stoves operate exclusively with pellets made from various types of legislative-compliant wood.  
DIN plus or EN plus 14961-2 A1 or PEFC/04-31-0220 ONORM M7135, or having the following specifications:

Min. calorific heat output 4.8 kWh/kg (4180 kcal/kg)

Density 630-700 kg/m<sup>3</sup>

Maximum humidity 10% of weight

Diameter: 6 ±0.5 mm

Ash percentage: max. 1% of weight

Length: min. 6mm - max. 30mm

Composition: 100% untreated wood from the industry of wood or post-consumption without the addition of binders, bark-free and compliant with current regulations.

## 02. GENERAL SAFETY PRECAUTIONS

- Use the stove only as described in this manual. Any other use not recommended by the manufacturer may cause fires or accidents to people.
- Make sure that the electrical power available corresponds to the value indicated on the data plate (230V~/50Hz).
- This appliance is not a toy. Ensure children are not left unattended and do not use the appliance as a toy.
- This device is not intended for use by persons (including children) with reduced physical or mental capacity, or without specific experience and knowledge, unless supervised or duly instructed on the use of the appliance by a person responsible for their safety.
- Disconnect the appliance from the mains when not in use or during cleaning operations.
- To do so, turn the switch to the O position and disconnect the plug from the socket. Pull the plug, not the cable.
- Never block the combustion air inlets and fume outlets.
- Do not touch the stove with wet hands; it contains electrical components.
- **Do not use the appliance with damaged cables or plugs. The device is classified as type Y: the power supply cable may only be replaced by a qualified technician. Should the power supply cable be damaged, it can be replaced only by the manufacturer or by its technical assistance service or by a similarly qualified person.**
- Do not place any object on the cable and do not bend it.
- Avoid using extension cables as their temperature may increase excessively posing fire hazards. Never use one single extension cable to power several appliances.
- **During normal functioning some parts of the stove may become extremely hot, such as the door, the glass or the handle. Be careful, especially with children. Do not touch any hot parts if not wearing adequate protective devices.**
- **CAUTION! DO NOT TOUCH the FIRE DOOR, the GLASS, the HANDLE or the FUME OUTLET DURING OPERATION when not wearing adequate protective clothing or devices as they become extremely hot!**
- Keep inflammable materials, such as furniture, cushions, pillows, blankets, paper, clothing, curtains, etc., at least 1.5 m away from the stove front and 30 cm from the stove sides and back.
- During operation, there is a risk of fire if the stove is covered or if it comes into contact with **flammable** material including curtains, draperies, covers, etc. **KEEP THE PRODUCT AWAY FROM SUCH MATERIALS.**
- Do not immerse the cable, plug or any other component of the appliance in water or other liquids.
- Do not use the stove in dusty environments or wherever inflammable gases are generated (e.g. in a workshop or garage).
- The stove is fitted with components that generate arcs and sparks. Do not install the stove in areas posing a significant fire or explosion hazard due to a high chemical substance concentration or to a high humidity level.
- Do not use the appliance close to bathtubs, showers, basins, sinks or swimming pools.
- Do not install the appliance underneath an air vent. Do not install the stove outdoors.
- Do not repair, disassemble or modify the appliance. The appliance is not fitted with components that can be repaired by users.
- Turn off the stove, disconnect it from the mains and wait until it has cooled down completely before performing any maintenance operations.
- **WARNING: DISCONNECT THE STOVE FROM THE MAINS BEFORE PERFORMING ANY MAINTENANCE.**
- **CAUTION! These stoves operate exclusively with pellets or olive pomaces if the stove is designed for this particular use; DO NOT USE DIFFERENT COMBUSTIBLES: any other burned material will cause the apparatus to malfunction.**
- **Keep the pellets in a fresh dry place: storing pellets in a place that is damp or excessively cold may reduce the stove potential heat output. Be careful when storing and handling pellet bags to prevent pellet crushing and consequent sawdust production.**
- The fuel consists of small cylinders with 6-7mm diameter and a maximum length of 30mm. Their maximum moisture content is equal to 8%. This stove is designed to burn pellets made of compacted sawdust obtained from different types of wood, in compliance with environment protection legislation.
- The use of different types of pellets may result in a slight, sometimes even undetectable, change in the stove efficiency. This change can be counterbalanced by increasing or decreasing the stove heat output by only one step.
- **Clean the burn pot on a regular basis upon every ignition or pellet refuelling.**
- The combustion chamber must be kept closed, except when loading or removing residues, in order to prevent smoke egress.
- Do not switch the stove on and off intermittently to prevent damaging its electrical and electronic components.
- Do not use the appliances as waste incinerators or for any other purpose other than that for which they were designed.
- Do not use liquid fuels.
- Do not modify the appliance without prior authorisation.
- Use only original spare parts recommended by the manufacturer.

- Make sure that the stove is transported in compliance with safety regulations. Avoid any improper transfers or knocks that may damage the ceramics or the structure.
- The metal structure is coated using high temperature paints. When using the appliance for the first few times, unpleasant odours may be given off due to the paint of the metal parts that is drying: this is in no way dangerous and in such case, simply ventilate the premises. After the first heating cycles, the paint will reach its maximum adhesion and all its chemical and physical features.
- To refill the hopper, simply lift the access cover and pour the pellets in, even when the machine is on, taking care not to spill outside of the hopper. Always refuel the hopper before leaving the operating stove unattended for long periods of time.
- Whenever the hopper and the Auger tube get completely empty, the appliance will be automatically switched off. It may take two separate ignitions to resume operation at ideal working conditions since the Auger tube is very long.
- **CAUTION! If the installation is not carried out according to the procedures indicated, in the event of a power failure, part of the combustion fumes could be spilled into the environment. In some cases, it may be necessary to install an uninterruptible power supply.**
- **CAUTION! Being a heating appliance, some parts of the stove can become extremely hot. For precisely this reason, we advise that you take extreme care during operation.**

#### WHEN THE STOVE IS IN OPERATION:

- do not open the door;
- do not touch the door glass since it becomes extremely hot;
- keep children away from it;
- do not touch the fume outlet;
- do not pour any liquid inside the firebox;
- do not perform any maintenance operations if the stove is not cold;
- only qualified technicians are allowed to perform any operation;
- follow all the instructions contained herein.

#### Anti-explosion device

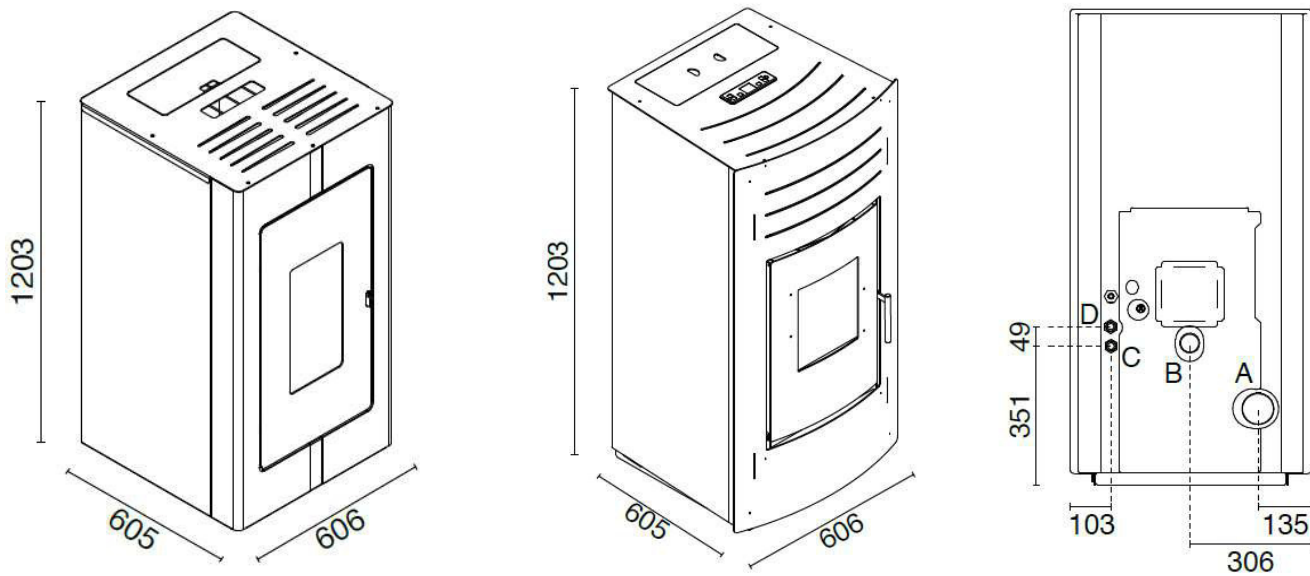
Some products are equipped with anti-explosion safety devices. Before switching on the product or, in any case, after any cleaning operation, make sure that the device is correctly positioned in its seat. The device is located on the firebox door upper edge.



## 03.1 CURVED AND STRAIGHT FRONT HYDRO STOVE 20/24 KW

They are tireless workers, you just have to remember to feed them. Available in 4 powers 20/24 kW. Essential lines and a curved front make the stove placeable as a piece of furniture. The aspects of robustness, reliability, ease of use, the cast iron and steel interiors, the corten steel exchanger and the high yields result in a self-sufficient and durable appliance. In the 20/24 kW powers, domestic water can also be heated using a dedicated kit called ACS.

## HYDRO 20/24 KW TECHNICAL DRAWING

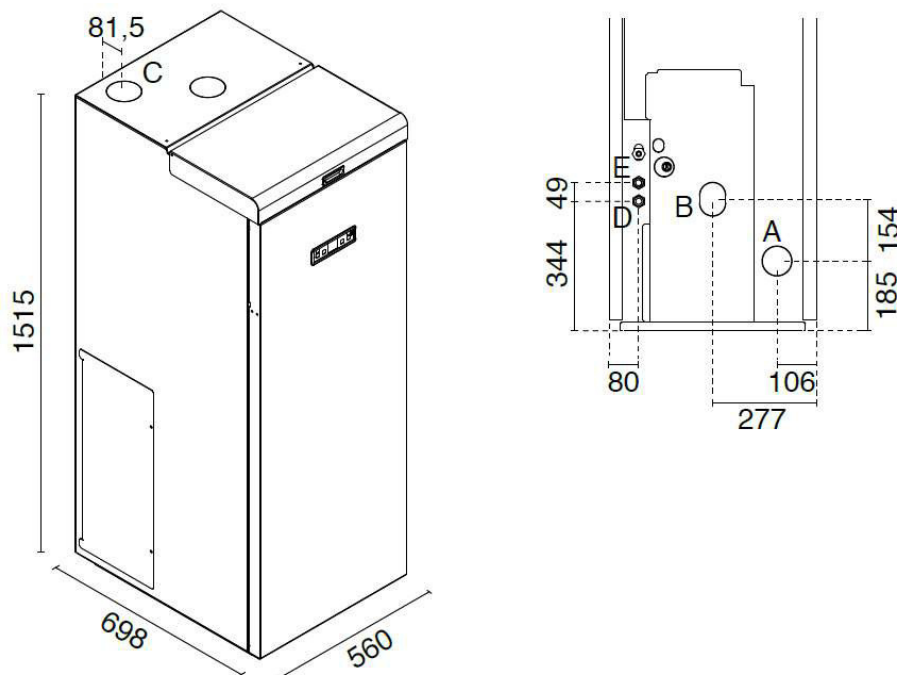


A = Ø 80 mm	Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
B = Ø 50 mm	Ingresso aria primaria / Primary air inlet / Entrée d'air primaire / Primärlufteinlass / Entrada aire primario / Vstop primarnega zraka
C = 3/4	Ritorno riscaldamento / Heating return / Retour chauffage / Heizungsrücklauf / Retorno calentamiento / Povratek ogrevanje
D = 3/4	Andata riscaldamento / Heating flow / Départ chauffage / HeizungsVorlauf / Ida calentamiento / Izstop ogrevanje

## 03.2 KANTINA 20/24 KW HYDRO STOVE

Thanks to the technology with which it was designed, this pellet-fuelled stove can be installed, resting it directly against the wall without leaving any gaps. Hydro Kantina is available in the 20 kW or 24 kW version, providing ample power to ensure optimal heating of rooms. The discharge can be upwards or to the rear, is fitted with remote control, daily programming and the possibility of operating according to the temperature of the water or the room.

## HYDRO KANTINA 20/24 KW TECHNICAL DRAWING



A = Ø 80 mm	Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
B = Ø 50 mm	Ingresso aria primaria / Primary air inlet / Entrée d'air primaire / Primärlufteinlass / Entrada aire primario / Vstop primarnega zraka
C = Ø 80 mm	Scarico fumi superiore / Top Flue outlet / Sortie de Haut de Fumée / Top Abgasstutzen / Salida humos superior / Izpuh dimnih plinov zgoraj
D = 3/4	Ritorno riscaldamento / Heating return / Retour chauffage / Heizungsrücklauf / Retorno calentamiento / Povratek ogrevanje
E = 3/4	Andata riscaldamento / Heating flow / Départ chauffage / HeizungsVorlauf / Ida calentamiento / Izstop ogrevanje

**03.3 TECHNICAL DATA**

<b>Technical data of the appliance:</b> <i>Dati tecnici dell'apparecchio:</i>	CURVED FRONT HYDRO 20 KW/STRAIGHT FRONT HYDRO 20 KW		CURVED FRONT HYDRO 24 KW/STRAIGHT FRONT HYDRO 24 KW		HYDRO KANTINA 20 KW		HYDRO KANTINA 24 KW	
	Nominal heat output <i>Potenza termica nominale</i>	Reduced heat output <i>Potenza termica ridotta</i>	Nominal heat output <i>Potenza termica nominale</i>	Reduced heat output <i>Potenza termica ridotta</i>	Nominal heat output <i>Potenza termica nominale</i>	Reduced heat output <i>Potenza termica ridotta</i>	Nominal heat output <i>Potenza termica nominale</i>	Reduced heat output <i>Potenza termica ridotta</i>
<b>Fuel throughput</b> <i>Consumo orario (kg/h)</i>	4.3	1.1	5.4	1.1	4.3	1.1	5.2	1.1
<b>Minimum flue draught requirements</b> <i>Requisiti minimi del tiraggio del camino (Pa)</i>	12	10	13	10	13	10	13	10
<b>Flue gas temperature</b> <i>Temperatura fumi (°C)</i>	154	77	179	77	145	77	164	77
<b>Flue gas temperature at flue spigot or socket</b> <i>Temperatura uscita fumi (°C)</i>	175	100	200	100	165	100	185	100
<b>Flue gas mass flow</b> <i>Flusso massico dei fumi (g/s)</i>	10.8	4.8	14.3	4.8	10.9	4.8	13.2	4.8
<b>Efficiency</b> <i>Rendimento (%)</i>	91.5	94.5	90.0	94.5	92.0	94.5	91.0	94.5
<b>Total heat output</b> <i>Potenza termica (Kw)</i>	18.5	5.0	23.0	5.0	18.5	5.0	22.5	5.0
<b>Water heat output</b> <i>Potenza termica resa all'acqua (Kw)</i>	16.0	3.5	20.5	3.5	16.0	3.5	20.5	3.5
<b>Space heat output</b> <i>Potenza termica resa all'ambiente (Kw)</i>	2.5	1.5	2.5	1.5	2.5	1.5	2.0	1.5
<b>CO emission at 13% of O<sub>2</sub></b> <i>Emissioni di CO al 13% di O<sub>2</sub> (%)</i>	0,020	0,020	0,016	0,020	0,010	0,020	0,010	0,020
<b>Maximum water operating pressure</b> <i>Massima pressione di esercizio dell'acqua (bar)</i>	3	3	3	3	3	3	3	3
<b>Discharge control operating temperature</b> <i>Temperatura di intervento termostato sicurezza acqua (°C)</i>	-	-	-	-	-	-	-	-
<b>Electrical power supply</b> <i>Potenza elettrica assorbita (W)</i>	380	380	380	380	380	380	380	380
<b>Rated voltage</b> <i>Tensione nominale (V)</i>	230	230	230	230	230	230	230	230
<b>Rated frequency</b> <i>Frequenza nominale(Hz)</i>	50	50	50	50	50	50	50	50

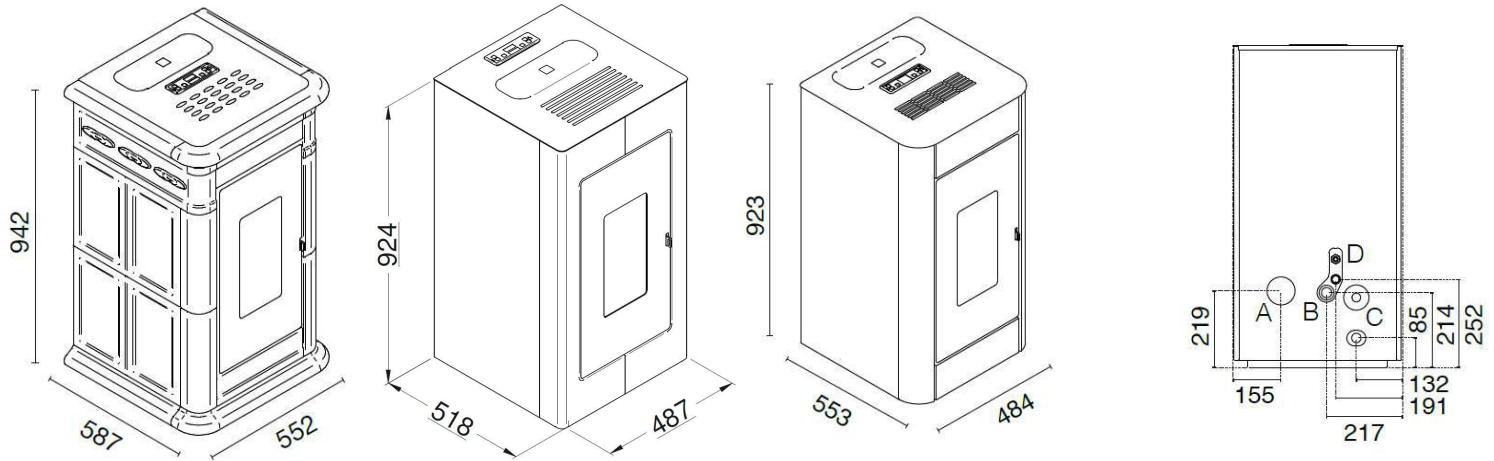


### 03.4 HYDRO 13 KW

Refined and efficient.

It is a 13 kW heating stove which, with its refined line and its compact dimensions, becomes a discreet piece of furniture. The small fan on board allows very rapid heating of the environment in which it is installed.

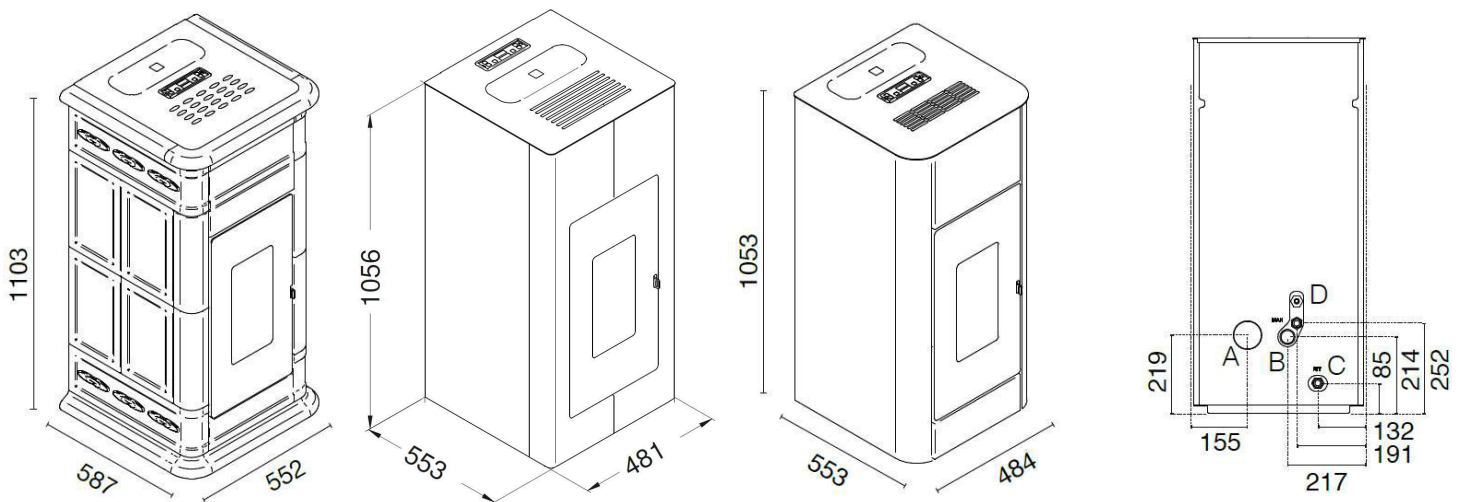
#### TECHNICAL DRAWING



- A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
- B = Ø 42 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje
- C = 3/4 Ritorno riscaldamento / Heating return / Retour chauffage / Heizungsrücklauf / Retorno calentamiento / Povratek ogrevanje
- D = 3/4 Andata riscaldamento / Heating flow / Départ chauffage / Heizungsvoorlauf / Ida calentamiento / Izstop ogrevanje

### 03.5 HYDRO 17.5 KW

#### TECHNICAL DRAWING



- A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
- B = Ø 42 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje
- C = 3/4 Ritorno riscaldamento / Heating return / Retour chauffage / Heizungsrücklauf / Retorno calentamiento / Povratek ogrevanje
- D = 3/4 Andata riscaldamento / Heating flow / Départ chauffage / Heizungsvoorlauf / Ida calentamiento / Izstop ogrevanje



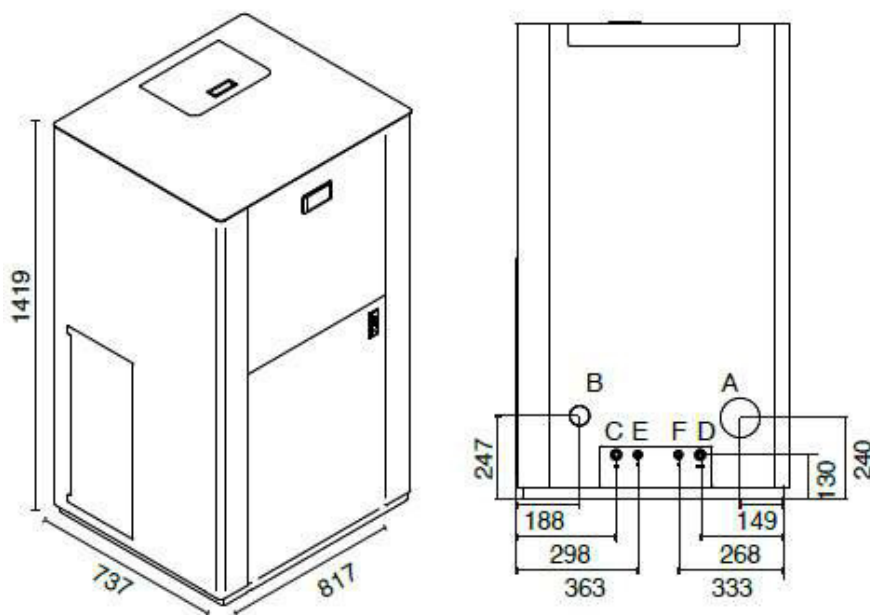
### 03.6 TECHNICAL DATA

Technical data of the appliance: <i>Dati tecnici dell'apparecchio:</i>	SPH13		SPH17	
	Nominal heat output <i>Potenza termica nominale</i>	Nominal heat output <i>Potenza termica nominale</i>	Reduced heat output <i>Potenza termica ridotta</i>	Reduced heat output <i>Potenza termica ridotta</i>
<b>Designation:</b> <i>Designazione:</i>				
<b>Fuel throughput</b> <i>Consumo orario (kg/h)</i>	2.6	0.72	3.7	0.9
<b>Minimum flue draught requirements</b> <i>Requisiti minimi del tiraggio del camino (Pa)</i>	12	11	10	11
<b>Flue gas temperature</b> <i>Temperatura fumi (°C)</i>	143	74	162	70
<b>Flue gas temperature at flue spigot or socket</b> <i>Temperatura uscita fumi (°C)</i>	146	76	163	72
<b>Flue gas mass flow</b> <i>Flusso massico dei fumi (g/s)</i>	8.4	4.3	9.6	3.9
<b>Efficiency</b> <i>Rendimento (%)</i>	91.3	93.3	91.9	95.5
<b>Total heat output</b> <i>Potenza termica (Kw)</i>	11.3	3.2	16.3	4.1
<b>Water heat output</b> <i>Potenza termica resa all'acqua (Kw)</i>	9.1	2.2	13.3	2.9
<b>Space heat output</b> <i>Potenza termica resa all'ambiente (Kw)</i>	2.2	1.0	3.0	1.2
<b>CO emission at 13% of O<sub>2</sub></b> <i>Emissioni di CO al 13% di O<sub>2</sub> (%)</i>	0.0033	0,016	0.0078	0.0065
<b>Maximum water operating pressure</b> <i>Massima pressione di esercizio dell'acqua (bar)</i>	3	3	3	3
<b>Discharge control operating temperature</b> <i>Temperatura di intervento termostato sicurezza acqua (°C)</i>	-	-	-	-
<b>Electrical power supply</b> <i>Potenza elettrica assorbita (W)</i>	380	380	380	380
<b>Rated voltage</b> <i>Tensione nominale (V)</i>	230	230	230	230
<b>Rated frequency</b> <i>Frequenza nominale(Hz)</i>	50	50	50	50

### 03.7 EV34 PELLETT STOVE / EV50

It reaches class 5 (EN 303-5:2012) and achieves the highest performance. The most evident characteristics include: very compact, rear or high fume exhaust, self-cleaning burn pot, convenient separate opening of the ash drawer at the bottom, unburned pellets conveyor system to optimise combustion and to reduce emissions, a recirculation pump, expansion vessel and safety valve. It has been designed to make extraordinary maintenance very simple.

#### EV34 / EV50 TECHNICAL DRAWING

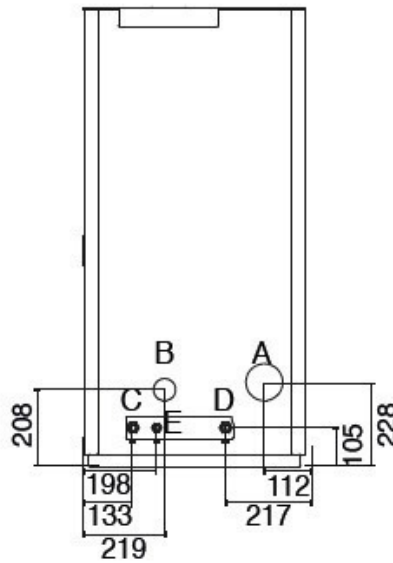
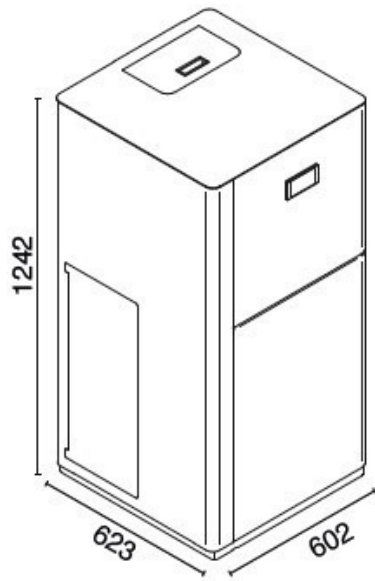


#### EV 50-34

- A = Ø 100 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Descarga de humos
- B = Ø 50 mm Ingresso aria primaria / Primary air inlet / Entrée d'air primaire / Primärlufteinlass / Entrada aire primario / Admissão de ar primário
- C = 1 Ritorno riscaldamento / Heating return / Retour chauffage / Heizungsrücklauf / Retorno calentamiento / Retorno aquecimento
- D = 1 Andata riscaldamento / Heating flow / Départ chauffag / HeizungsVorlauf / Ida calentamiento / Partida do aquecimento
- E = 1/2 Entrata acqua fredda sanitaria / Incoming cold water / Entrant eau froide / Einströmende kalte Wasser / Entrada agua fría sanitaria / Entrada de água fria sanitária
- F = 1/2 Prelievo acqua calda sanitaria / Sampling hot water / Echantillonnage de l'eau chaude / Sampling heißem Wasser / Retirada agua caliente sanitaria / Recolha de água quente sanitária

It reaches class 5 (EN 303-5:2012) and achieves the highest performance. The most evident characteristics include: very compact, rear or high fume exhaust, self-cleaning burn pot, convenient separate opening of the ash drawer at the bottom, unburned pellets conveyor system to optimise combustion and to reduce emissions, a recirculation pump, expansion vessel and safety valve. It has been designed to make extraordinary maintenance very simple.

## EV14 - EV20 - EV24 TECHNICAL DRAWING



## ONLY EV14

A =  $\varnothing$  80 mm Scarico fumi / Flue /  
Cheminée / Rauchabzug / Evacuación  
de humos / Descarga de humos

A =  $\varnothing$  100 mm Scarico fumi / Flue / Cheminée  
/ Rauchabzug / Evacuación de humos /  
Descarga de humos

B =  $\varnothing$  50 mm Ingresso aria primaria /  
Primary air inlet / Entrée d'air primaire /  
Primärlufteinlass / Entrada aire primario  
/ Admissão de ar primário

C = 3/4 Ritorno riscaldamento /  
Heating return / Retour chauffage  
/ Heizungsrücklauf / Retorno  
calentamiento / Retorno aquecimento

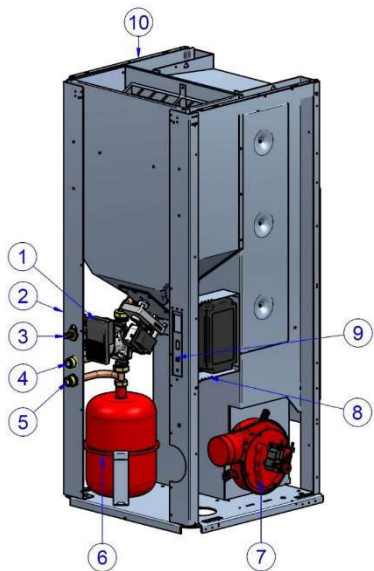
D = 3/4 Andata riscaldamento / Heating flow  
/ Départ chauffage / Heizungs-  
vorlauf / Ida calentamiento / Partida do aquecimento

E = 1/2 Carico/scarico impianto / System  
load/discharge / Remplissage/vidage  
installation / Be-/Entladen der Anlage  
/ Carga/Descarga instalación / Carga/  
descarga sistema

**03.9 TECHNICAL DATA**

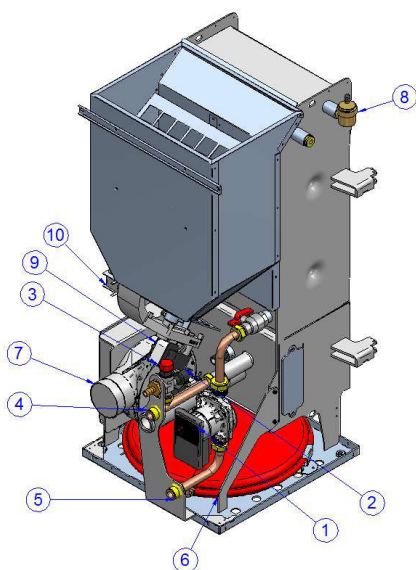
Technical data of the appliance: <i>Dati tecnici dell'apparecchio:</i>		EV 14		EV 20		EV 24		EV 34		EV 50	
Designation: <i>Designazione:</i>		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
Fuel throughput <i>Consumo orario</i>	Kg/h	2.95	0.9	4.08	1.18	5.08	1.18	7.14	1.97	9.4	2.48
Minimum flue draught requirements <i>Requisiti minimi del tiraggio del camino</i>	Pa	10	10	13	12	11	12	12	13	14	13
Flue gas temperature <i>Fume temperature</i>	°C	75	55	83	56	92	56	95	51	137	69
Flue gas mass flow <i>Flusso massico dei fumi</i>	g/s	9.4	3.4	10.7	4.4	13.1	4.4	19.0	7.3	25.7	9.6
Nominal heat input <i>Potenza Bruciata</i>	kW	13.9	4.3	20.1	5.7	24.4	5.7	34.0	9.5	45.5	12.0
Nominal heat output <i>Potenza termica nominale</i>	kW	12.7	3.8	18.0	5.0	22.5	5.0	31.8	8.5	41.8	11.4
Efficiency <i>Rendimento</i>	%	91.3	87.9	94.5	92.0	93.5	92.0	94.5	91.5	92.0	95.3
CO emission at 10% of O <sub>2</sub> <i>Emissioni di CO al 10% di O<sub>2</sub></i>	mg/Nm <sup>3</sup>	88	180	44	185	103	185	66	45	118	464
CO emission at 10% of O <sub>2</sub> <i>Emissioni di OGC al 10% di O<sub>2</sub></i>	mg/Nm <sup>3</sup>	1.5	4.0	1.3	1.9	1.3	1.9	0.5	3.0	1.5	4.8
NO <sub>x</sub> emission at 10% of O <sub>2</sub> <i>Emissioni di NO<sub>x</sub> al 10% di O<sub>2</sub></i>	mg/Nm <sup>3</sup>	116	95	169	145	170	145	169	130	178	118
CO emission at 10% of O <sub>2</sub> <i>Emissioni di Particolato al 10% di O<sub>2</sub></i>	mg/Nm <sup>3</sup>	13.0	16.3	7.5	5.0	8.0	5.0	11.4	7.2	15.1	9.2
Maximum/minimum water operating pressure <i>Massima/minima pressione di esercizio dell'acqua</i>	Bar	2.5/0.5		2.5/0.5		2.5/0.5		2.5/0.5		2.5 / 0.5	
Maximum water pressure (safety valve) <i>Massima pressione dell'acqua (valvola di sicurezza)</i>	Bar	3.0		3.0		3.0		3.0		3.0	
Stove Class (EN 303-5:2012) <i>Classe della caldaia (EN 303-5:2012)</i>		5		5		5		5		5	
Electrical power supply <i>Potenza elettrica assorbita</i>	W	380		400		400		390		390	
Electrical power supply of circulator <i>Potenza elettrica assorbita della pompa</i>	W	45		45		45		45		45	
Electrical power consumption <i>Potenza elettrica assorbita</i>	W	Max 72 Min 57 St-By 3		Max 87 Min 73 St-By 3		Max 91 Min 73 St-By 3		Max 85 Min 66 St-By 3		Max 131 Min 72 St-By 3	
Rated voltage <i>Tensione nominale</i>	V	230		230		230		230		230	
Rated frequency <i>Frequenza nominale</i>	Hz	50		50		50		50		50	
Stove water inventory <i>Contenuto acqua</i>	litres	35		35		35		40		40	
Energy Efficiency Class <i>Classe di efficienza energetica</i>		A+		A+		A+		A+		A+	
Energy Efficiency Index <i>Indice di efficienza energetica</i>		113		114		114		119		122	
Self cleaning brazier and turbolator <i>Sistema autopulente del braciere e dei turbolatori</i>		SI		SI		SI		SI		SI	
Type of wood pellet <i>Tipo di combustibile</i>	Ømm	6		6		6		6		6	
Max Humidity of pellet <i>Percentuale di umidità max del combustibile</i>	%	6.5		6.5		6.5		6.5		6.5	
Reservoir Capacity <i>Capacità serbatoio</i>	kg	45		45		45		90		90	
Dimension of door of reservoir <i>Dimensioni porta carico pellet</i>	mm	240X110		240X110		240X110		270x155		270x155	
Exhaust smoke <i>Scarico</i>	mm	80		100		100		100		100	
Primary air inlet <i>Ingresso aria primaria</i>	mm	48		48		48		48		48	
Expansion vessels <i>Vaso di espansione</i>	litres	8		8		8		8		8	
Max admissible temperature <i>Temperatura massima ammessa</i>	°C	90		90		90		90		90	

03.10 DESCRIPTION OF THE COMPONENTS (HYDRO)



**HYDRO 20 – 24 KW**

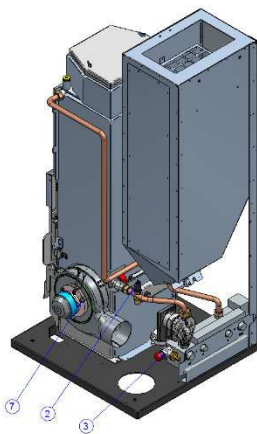
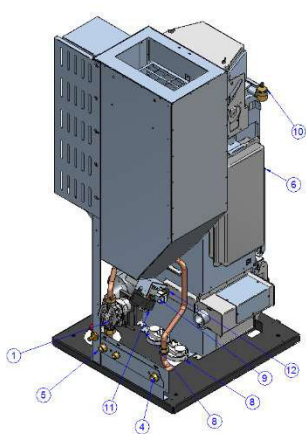
- 1- Electronic pump
- 2- Pressure transducer
- 3- 3 bar safety valve
- 4- Heating delivery
- 5- Heating return
- 6- Expansion vessel
- 7- Fume motor
- 8- Depressor
- 9- Manual reset thermostat
- 10- Automatic vent valve



**HYDRO 13 – 17.5 KW**

- 1- Electronic pump
- 2- Pressure transducer
- 3- 3 bar safety valve
- 4- Heating delivery
- 5- Heating return
- 6- Expansion vessel
- 7- Fume motor
- 8- Automatic breather valve
- 9- Auger motor
- 10- Air fan (some models only)

03.11 COMPONENT DESCRIPTION (EV STOVES)



- 1- Electronic pump
- 2- Pressure transducer
- 3- 3 bar safety valve
- 4- Heating delivery
- 5- Heating return
- 6- Expansion vessel
- 7- Fume motor
- 8- Depressor
- 9- Manual reset thermostat
- 10- Automatic vent valve
- 11- Auger motor
- 12- Spark plug

## INTRODUCTION:

**INSTALLATION WITH WALL FUME OUTLET IS PROHIBITED. INSTEAD THE FUME OUTLET MUST BE ROOF-TYPE AS PROVIDED FOR BY NATIONAL REGULATIONS.**

**Eva Stampaggi S.r.l. assumes no responsibility for injury to persons and/or damage to property caused by the non-observance of the point highlighted above**

**for non-compliant installed products.**

**Install the stove according to the regulations in force in the country of use.**

In Italy, for example, this refers to UNI 10683: 2012, which refers to 4 areas:

**a. preliminary activities** - are under the jurisdiction and are the responsibility of the reseller/installer at the time of the pre-installation inspection. Preliminary procedures include:

- installation site suitability verification;
- fume evacuation system suitability verification;
- external air inlet suitability verification.

At this stage, the product needs to be checked in order that it can be safely operated and that the relevant technical specifications are met.

**The safety conditions must be assessed with a preventive inspection.**

**Stoves and fireplaces are heating systems and must be installed safely** and comply with the manufacturer's instructions!

**b. installation** - under the responsibility of the installer. In this phase the **installation** of the product and the smoke exhaustion system are considered as well as the handling of topics such as:

- **safety distance** from combustible materials;
- **chimney flue construction**, smoke ducts, intubated systems and chimney cowls.

**c. issuance of supplementary documentation** - the responsibility of the installer.

The release of technical documentation must include:

- manual of use and maintenance of the appliance and of the components of the system (e.g smoke ducts, chimney flue, etc.);
- Photocopy or photograph of the chimney flue plate;
- system manual: (if applicable);
- [Declaration of Conformity in relation to Ministerial Decree 37/08.](#)

**4. control and maintenance** - the responsibility of the maintenance technician who must oversee protection and maintenance of the product during its operation over time. The operator responsible for checking and maintaining the systems for winter and summer climate control carries out tasks in a **workmanlike manner** and in observance of applicable regulations. The operator, at the end of these operations, must draw up and sign a technical inspection report in accordance with the models provided by the provisions of this decree and the implementing rules, in relation to the type and capacity of the system, to be issued to the person who signs a copy thereby confirming receipt and reading thereof."

In addition to what is specifically provided for in the following paragraphs of this Instruction Manual, the Purchaser must comply with the following minimum installation requirements:

- a) Do not invert or place the stove horizontally on one side;
- b) The power of the stove must be adapted to the size of the room where it is to be installed and the room must be ventilated from the outside;
- c) The assembly of the flue pipe must be carried out in a workmanlike manner and according to European (UNI 10683) and national regulations, local regulations and the technical specifications and warnings contained in this Instruction Manual;
- d) The smoke outlet must be connected to the flue pipe by means of telescopic fittings;
- e) The diameter of the flue must be less than 150 mm.
- f) The connection to the flue pipe must be made with an inclination connection of less than 45°;
- g) The flue pipe must be suitably insulated;
- h) The minimum length of the horizontal section must be greater than 2 metres;
- i) The minimum slope of the horizontal section must be 5%;
- j) The chimney and/or flue pipe must be waterproofed;
- k) The flue shall not have more than two changes of direction;
- l) The flue gas must be discharged directly into the flue pipe;
- m) The flue gas duct must have a length of less than 6.0 m before the flue, with a maximum horizontal section of 3.0 m;
- n) The flue and flue duct must not narrow in width from the initial diameter for its entire length. The initial diameter shall be that of the exhaust outlet of the stove body;
- o) The minimum value of the ventilation duct opening must be 80 cm<sup>2</sup>;
- p) The distance of the flammable walls must be respected, as prescribed on the "stove data plate";
- q) The burn pot must be cleaned before each ignition of the stove.

The Buyer must not make any structural changes to the stove and must not make any operating changes to the electrical board.

Installation and connection must be carried out by the Purchaser and by qualified technical personnel, in compliance with THE European (UNI 10683) and national regulations, local regulations and assembly instructions contained in this Instruction Manual.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect, for persons or property resulting from non-compliance with the aforementioned provisions of law, assembly instructions, warnings and general safety rules indicated in this Instruction Manual.

Failure to comply with the installation requirements and/or tampering with the stove may result in: inadequate power and/or abnormal product behaviour, poor flue gas draught, clogging of the fire pit, slow combustion, tank fire, overheating and fire hazard of the stove, fire hazard of the flue gas duct, lack of oxygen in the environment where the stove is located.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage to persons or property caused by non-compliance with the requirements for installation of the stove and/or tampering with it.

The Buyer must request and retain the certification of compliance of the installation, and the connection of the stove, with the provisions of law. In the absence of such certification Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage caused to persons or property, resulting from the use of the product.

**Warning: in the event of a power failure or electrical blackout, the burn pot must be emptied before repeating the operation. Failure to follow this procedure can result in the glass breaking.**



CHARACTERISTICS OF THE FLUE PIPE (HYDRO)

HYDRO 20 KW CURVED AND STRAIGHT FRONT	
Chimney flue draught	12 Pa
Fume temperature	154 °C
Maximum flue gas flow rate	10.8 g/s

HYDRO FRONT. 24 KW CURVED/STRAIGHT	
Chimney flue draught	13 Pa
Fume temperature	179 °C
Maximum flue gas flow rate	14.3 g/s

HYDRO KANTINA 20 KW	
Chimney flue draught	13 Pa
Fume temperature	145 °C
Maximum flue gas flow rate	10.9 g/s

HYDRO KANTINA 24 KW	
Chimney flue draught	13 Pa
Fume temperature	164 °C
Maximum flue gas flow rate	13.2 g/s

HYDRO 13 KW	
Chimney flue draught	12 Pa
Fume temperature	146 °C
Maximum flue gas flow rate	8.4 g/s

HYDRO 17.5 KW	
Chimney flue draught	10 Pa
Fume temperature	163 °C
Maximum flue gas flow rate	9.6 g/s

FLUE PIPE CHARACTERISTICS (EV STOVE)

EV14	
Chimney flue draught	10 Pa
Fume temperature	75 °C
Maximum flue gas flow rate	9.5 g/s

EV20	
Chimney flue draught	13 Pa
Fume temperature	83 °C
Maximum flue gas flow rate	10.7 g/s

EV24	
Chimney flue draught	11 Pa
Fume temperature	92 °C
Maximum flue gas flow rate	13.1 g/s

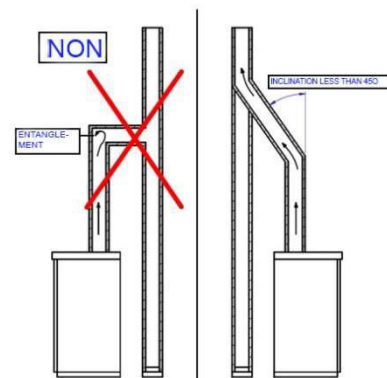
EV34	
Chimney flue draught	12 Pa
Fume temperature	95 °C
Maximum flue gas flow rate	19.0 g/s

EV50	
Chimney flue draught	14 Pa
Fume temperature	137 °C
Maximum flue gas flow rate	25.7 g/s

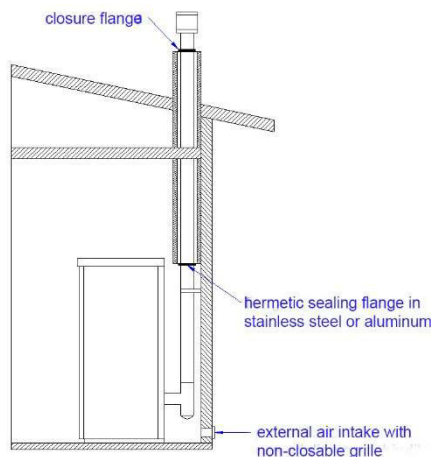
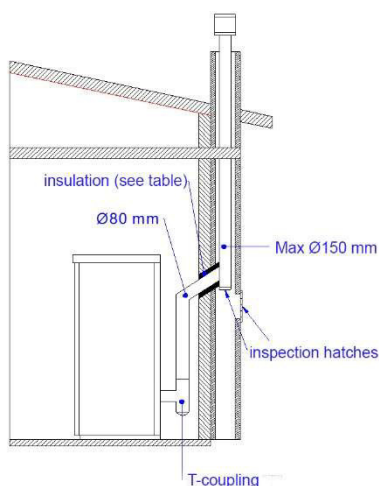
Use a vent pipe and an anti-corrosion fume connection to the vent pipe. The temperature of the pellet stove fumes is very low. It could create condensation and corrode the fume exhaust.

The flue pipe is one of the key features for guaranteeing correct functioning of the stove. Thanks to the quality of the materials, the strength, the durability, the easy cleaning and maintenance, the best flue pipes are made of steel, either stainless steel or aluminised.

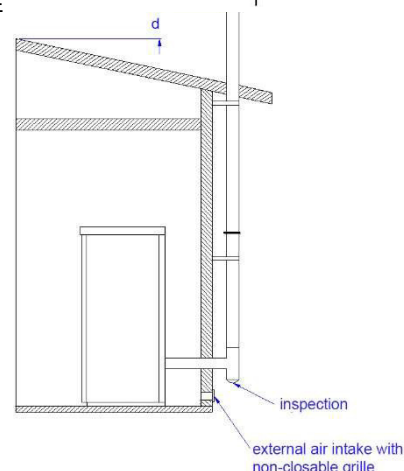
- The stove is fitted with a  $\Phi$  80mm rear round fume outlet and a joint connection to be connected to the vent pipe.
- In order to facilitate connection to the rigid steel flue, it is advisable to use telescopic fittings which, in addition to facilitating the procedure, also compensate for the thermal expansion of both the firebox and the flue itself.
- Seal the vent pipe joint connection with high temperature silicone sealant (1,000°C). In the event that the mouth of the existing flue pipe is not perfectly perpendicular to the fume outlet of the fire box, their connection must be made using a dedicated inclined fitting. The angle with respect to the vertical must never exceed 45° (see figure to the side) and there must be no bottlenecks.
- In case of passage through floors, an insulating sleeve of 10 cm thickness must be interposed.
- The flue pipe must be insulated along its entire length. The insulation will make it possible to maintain a high fume temperature to optimise the draught, avoid condensation and to reduce deposits of unburnt particles on the walls of the flue. Use proper insulating materials (glass wool, ceramic fibre, Class A1 non-combustible materials).
- The flue must be weatherproof and must not make more than two changes of direction.
- Flexible and length-adjustable metal pipes may not be used.



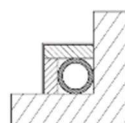
EXISTING VENT PIPE



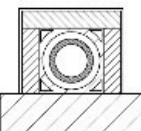
EXTERNAL VENT PIPE



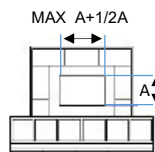
Types of vent pipe



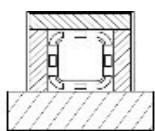
Steel flue pipe with double chamber insulated with material resistant to 400°C. Optimum efficiency.



Refractory flue pipe with insulated double chamber and external coating in lightweight concrete. Optimal efficiency.



Avoid flue pipes with internal rectangular section whose ratio between the larger and smaller side is greater than 1.5. Poor efficiency



Traditional clay flue pipe with cavities. Optimal efficiency.

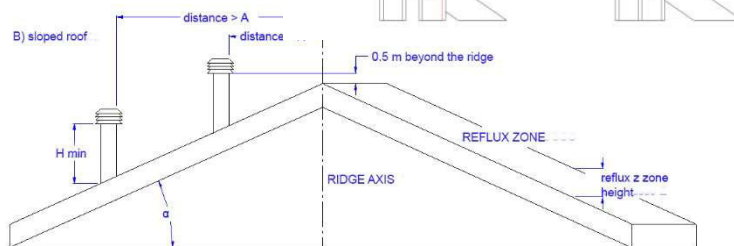
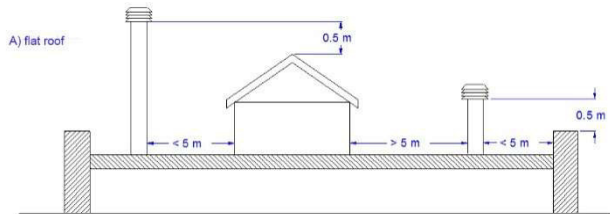


## 05.1 CHIMNEY COWL

A properly installed chimney cowl ensures optimum stove operation. The anti-downdraught chimney cowl consists of a number of components whose outlet section sum always doubles the flue pipe section. Make sure the chimney cowl is at least 150cm above the roof rise so that it is fully exposed to the wind.

The chimney cowls must:

- have useful outlet section that is at least twice that of the flue pipe.
- be made in such a way as to prevent the penetration of rain or snow.
- be constructed in such a way as to ensure, in the event of winds coming from any direction, the evacuation of combustion products.
- be free of mechanical intake auxiliaries.



Roof pitch $\alpha$ [°]	Horizontal width of reflux zone measured from rise A [m]	Minimum height from roof for discharging exhaust fumes $H_{\min} = Z + 0.50\text{m}$	Height of reflux zone Z [m]
15	1.85	1.00	0.50
30	1.50	1.30	0.80
45	1.30	2.00	1.50
60	1.20	2.60	2.10

## 05.2 DRAUGHT

As they heat up, the gases formed during combustion undergo an increase in volume and, as a result, have a lower density than the cooler surrounding air. This difference in temperature between the inside and outside of the flue results in a negative pressure which increases proportionally to the flue pipe length and the temperature.

The draught must be stronger than the fume circulation resistance so that all exhaust fumes generated during combustion inside the stove are drawn upwards through the outlet and the vent pipe. There are many meteorological factors that influence the operation of a flue pipe, rain, fog, snow, altitude, but the most important is the wind, which can cause negative thermal pressure as well as dynamic negative pressure.

The wind action varies depending on whether it is ascending, descending or horizontal.

- An ascending wind always has the effect of increasing pressure and draft.
- Horizontal wind results in an increased negative pressure as long as the chimney cowl was properly installed.
- Descending wind always diminishes the negative pressure, sometimes inverting it.

Excess draught causes an increase in the combustion temperature and consequently a loss in stove efficiency.

Some of the combustion gases, as well as small particles of combustible material, are drawn into the flue pipe before being burned, reducing the stove's efficiency and increasing the consumption of pellets and causing the emission of polluting smoke. At the same time the high fuel temperature, due to an excess amount of oxygen, wears down the combustion chamber sooner than expected.

Instead, poor draught slows down combustion resulting in a decrease in the stove temperature, fume spillage inside the room, a loss of stove efficiency and a dangerous build-up in the flue pipe.

To avoid excessive draught it is advisable to use a draught regulator (see figure to the side).



## 5.3 EFFICIENCY OF THE HYDRO STOVES

Paradoxically, highly efficient stoves may pose difficulties for fume extraction.

In order for a flue pipe to work properly, its internal temperature must increase as a consequence of the fumes generated during combustion.

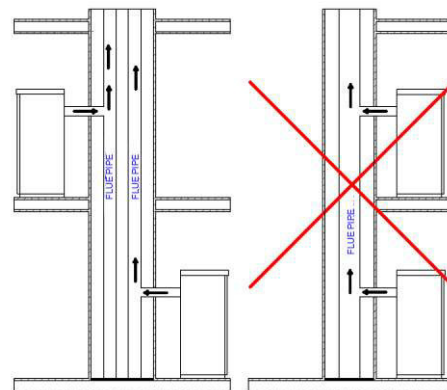
Now, the efficiency of a stove is determined by its capacity to transfer most of the heat produced into the area to be heated: the consequence of this is the greater the efficiency of the stove, the cooler the combustion smoke residues are and as a result the lesser the draught.

A traditional chimney flue, with a rough design and insulation, is more efficient if used with a traditional open fireplace or a poor-quality stove where most of the heat is lost with the fumes.

Therefore, purchasing a quality stove often entails modifying the existing chimney flue to obtain a better insulation, even when it already works properly with old appliances.

Poor draught results in the stove not operating when hot or in smoke spillage.

- Connecting the stove pipe to an existing chimney flue that has already been used with an old appliance is a common mistake. In this way two solid-fuel appliances share the same chimney flue, which is wrong and dangerous.
- If the two appliances are used simultaneously, the fume load might exceed the existing chimney flue capacity resulting in downdraught. If only one appliance is used, the fume heat will facilitate draught but the cold air coming from the other appliance not in use will cool down exhaust fume temperature again blocking the draught.
- Besides the problems described so far, if the two appliances are placed on different levels the communicating vessel principle might be interfered with, causing combustion fumes to be drawn in an irregular and unforeseeable way.



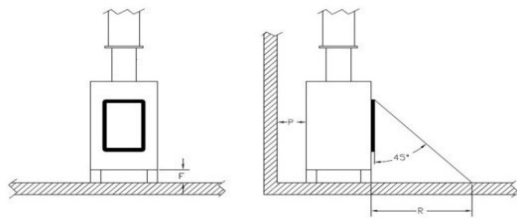
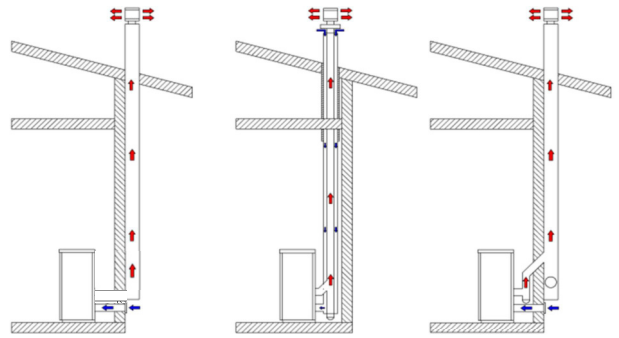
## 06. INSTALLATION WARNINGS

By using coaxial tubes, the air will be pre-warmed contributing to improved combustion and lower emissions into the atmosphere.

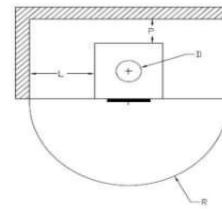
Before installing, the following indications must be met:

Select the position where the stove is to be installed and:

- Arrange the connection to the flue pipe for fume extraction.
- Arrange the external air intake (combustion air).
- Arrange the connection to the earthed mains.
- The electrical system of the room where the stove is to be installed must be earthed, otherwise the control board may not work properly.
- Place the stove on the floor in a convenient position for the connection to the flue pipe and close to the combustion air intake.
- The appliance must be installed on a floor with an adequate loading-bearing capacity.
- Should the existing floor not comply with the requirement above, proper measurements must be taken (for instance, the installation of a load distribution plate).
- All the structures which could catch fire if exposed to excessive heat must be protected. Floors made from wood or inflammable materials must be protected using non-combustible materials (e.g. 4mm-thick sheet metal or ceramic glass).
- The installation of the appliance must guarantee easy access for cleaning of the appliance itself, of the exhaust gas pipes and of the flue pipe.
- This appliance is not suitable to be installed on a shared flue pipe.
- During normal operation, the stove draws air from the room where it is installed. Therefore, an external air intake must be positioned at the same height of the pipe located on the stove back. Exhaust fume pipes must be suitable for pellet stoves and therefore made from coated steel or stainless steel, with a diameter of 8cm and fitted with adequate gaskets.
- The "air combustion" socket must reach an external wall or a wall of an adjacent room with external ventilation, as long it is not a bedroom or bathroom, nor at risk of fire such as garages, storage rooms, combustibles stores, etc. These air vents must be made in such a way that they cannot be blocked either internally or externally and should be protected by a grille, metal net or other suitable protection without reducing the minimum dimensions.
- If the stoves are to be installed in rooms where it is surrounded by combustible materials (e.g. furniture, wood cladding, etc.), the following minimum clearances must be complied with:



### STOVES



#### FLAMMABLE

##### HYDRO STOVE

REAR WALL P =	200 mm
SIDE WALL L =	200 mm
FLOOR F =	30 mm
FRONT R =	1500 mm

#### NON FLAMMABLE

##### HYDRO STOVE

REAR WALL P =	100 mm
SIDE WALL L =	100 mm
FLOOR F =	5 mm
FRONT R =	1000 mm

#### FLAMMABLE

##### EV STOVE

REAR WALL P =	200 mm
SIDE WALL L =	200 mm
FLOOR F =	30 mm
FRONT R =	1500 mm

#### NON FLAMMABLE

##### EV STOVE

REAR WALL P =	100 mm
SIDE WALL L =	100 mm
FLOOR F =	5 mm
FRONT R =	100 mm

It is in any case advisable, as well as respecting minimum distances, to install the fireproof heat-resistant insulating panels (mineral wool, aerated concrete, etc.). The following is recommend:

Promasil 1000

Classification temperature: 1000°C

Density: 245 kg/m<sup>3</sup>

Shrinkage at reference temperature, 12 h: 1.3/1000°C %

Cold crushing strength: 1.4 MPa

Bending strength: 0.5 MPa

Reversible thermal expansion: 5.4x10<sup>-6</sup> m/mK

Specific heat capacity: 1.03 kJ/kg K

Thermal conductivity λ:

200 °C → 0.07 W/mK

400 °C → 0.10 W/mK

600 °C → 0.14 W/mK

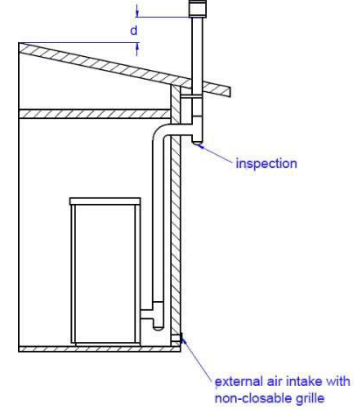
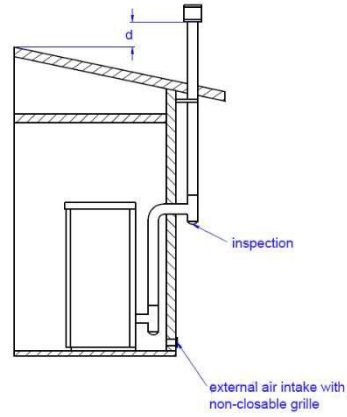
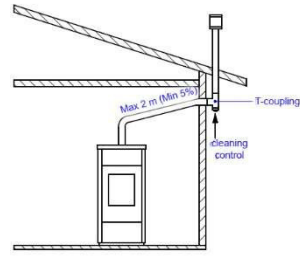
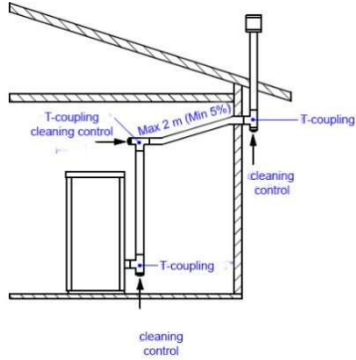
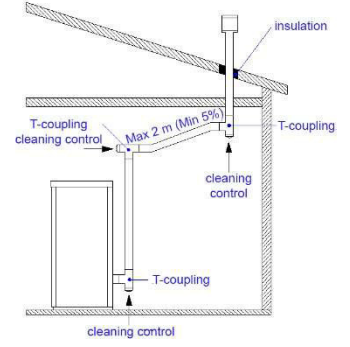
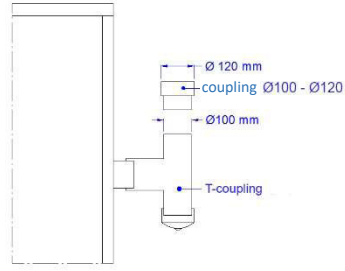
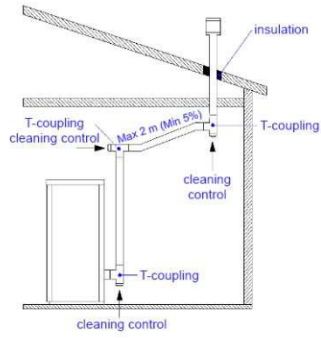
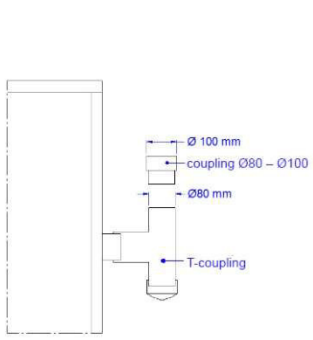
800 °C → 0.17 W/mK

Thickness: 40 mm

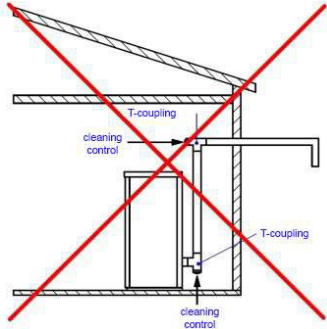
- When the stove is on, it can create a depression in the room where it is installed, therefore there must not be any open flame apparatus in the same room, with the exception of type C stoves (airtight).
- Make sure that the stove can draw the necessary quantity of combustion air: this must be from an open space (i.e. a space without exhaust blowers or providing adequate ventilation) or directly from outside.
- Do not install the stoves in bedrooms or bathrooms.
- Unpack the stove: be careful not to damage the product at the time of unpacking.
- Check the stove feet and adjust them so that the product is stable.
- Position the stove so that the door and any hatches are not against walls.
- After connecting the stove to the combustion air intake, connect the fitting to the flue pipe

INSTALLATION EXAMPLES  
HYDRO

EV STOVE



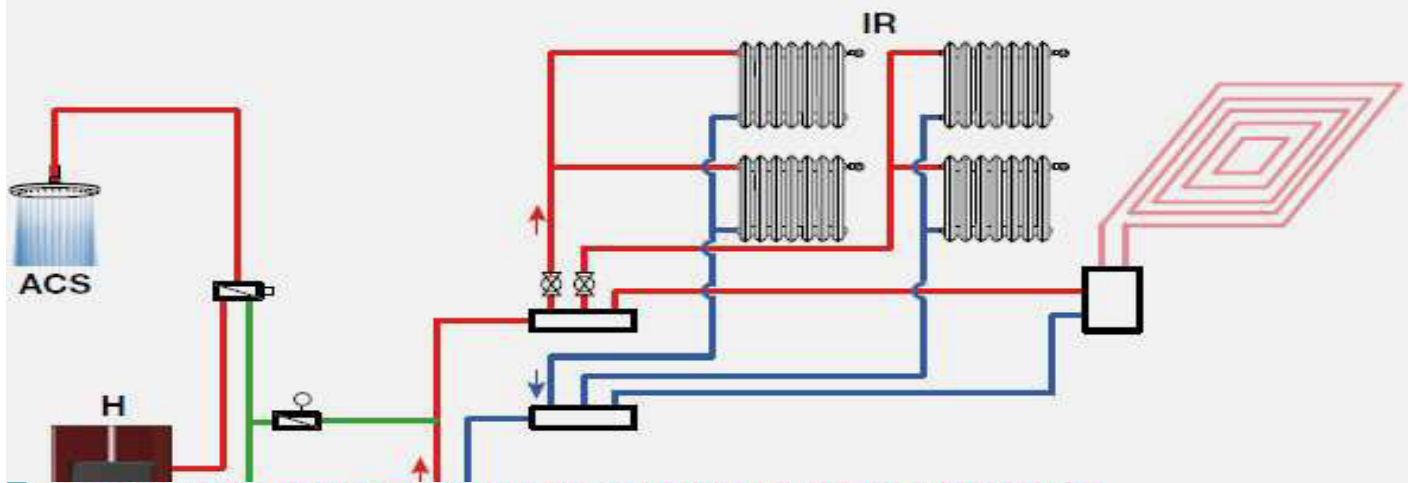
EXAMPLES OF INCORRECT INSTALLATION::



Exhaust pipes must never be fitted pointing downwards or horizontally so that fumes are discharged directly through the external wall.

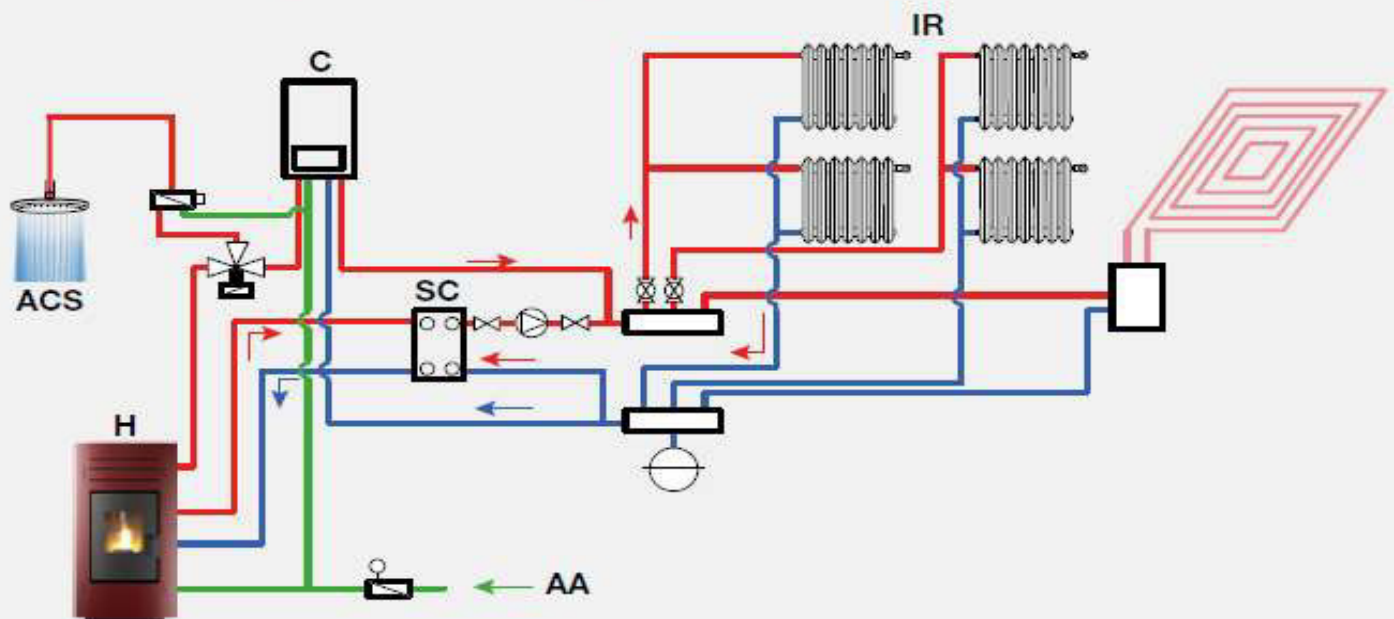
## TERMOSTUFA PER PRODUZIONE DI ACQUA CALDA SANITARIA

Heating stove for the production of potable hot water  
 Thermopoêle pour la production d'eau chaude sanitaire  
 Heizofen zur erzeugung von Warmwasser  
 Termoestufa para la producción de agua caliente sanitaria  
 Termo peč za pripravo tople sanitarne vode



## TERMOSTUFA INTERFACCIATA CON CALDAIA E SEPARATORE PER PRODUZIONE DI ACQUA CALDA SANITARIA

Heating stove combined with boiler and separator for the production of potable hot water  
 Thermopoêle interfacé avec chaudière et séparateur pour la production d'eau chaude sanitaire  
 Mit Kessel und Trenner verbundener Heizofen zur erzeugung von Warmwasser  
 Termoestufa conectada mediante interfaz con caldera y separador para la producción de agua caliente sanitaria  
 Termo peč, povezana z grelnikom in razdelilnikom za pripravo tople sanitarne vode



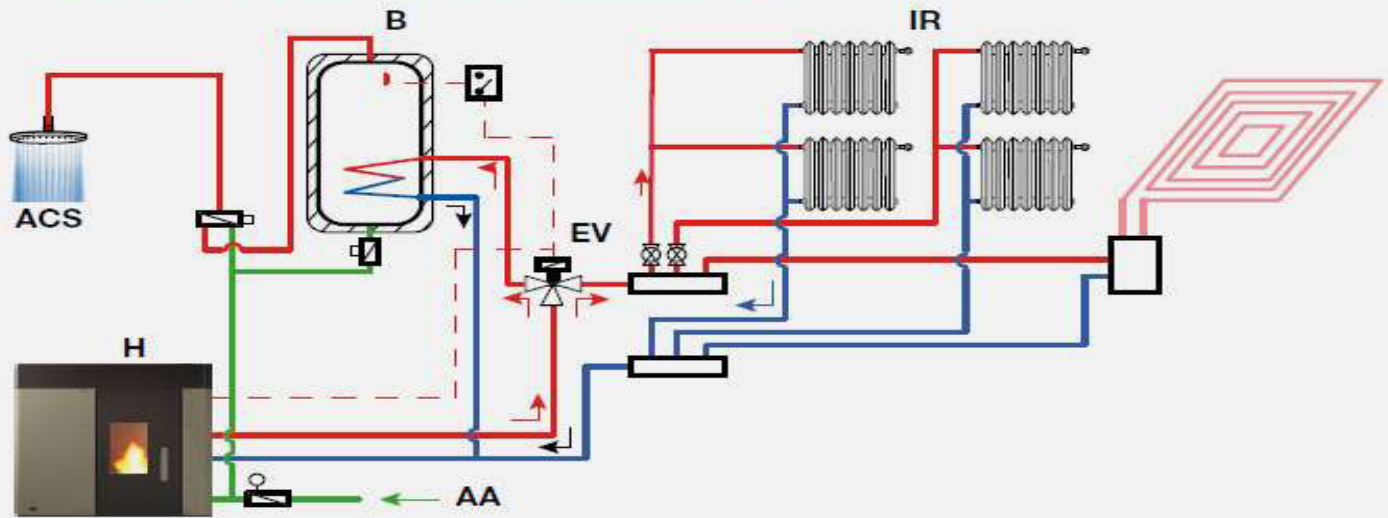
Schemi rappresentati in modo semplificato, gli impianti devono essere eseguiti da personale qualificato rispettando tutte le norme di sicurezza vigenti.  
 These diagrams have been simplified; the systems must be installed by qualified personnel in compliance with all applicable safety standards.  
 Schémas représentés de manière simplifiée, les installations doivent être réalisées par un personnel qualifié, conformément aux normes de sécurité en vigueur.  
 In vereinfachter Form dargestellte Pläne. Die Installation der Anlagen muss von qualifiziertem Fachpersonal vorgenommen werden, das sämtliche geltenden Sicherheitsvorschriften beachtet.  
 Los esquemas están representados de forma simplificada, las instalaciones tiene que efectuarlas personal cualificado respetando todas las normas de seguridad vigentes.  
 Sheme so poenostavljene, vgradnjo mora izvesti usposobljeno osebo, ki upošteva vse veljavne varnostne predpise.



## TERMOSTUFA INTERFACCIATA CON BOLLITORE EVA CALÒR PER PRODUZIONE DI ACQUA CALDA SANITARIA



Heating stove combined with Eva Calòr boiler for the production of potable hot water  
 Thermopoêle interfacé avec chaudière Eva Calòr pour la production d'eau chaude sanitaire  
 Mit Kessel Eva Calòr verbundener Heizofen zur erzeugung von Warmwasser  
 Termoestufa conectada mediante interfaz con hervidor Eva Calòr para la producción de agua caliente sanitaria  
 Termo peč, povezana z grelnikom Eva Calòr za pripravo tople sanitarne vode

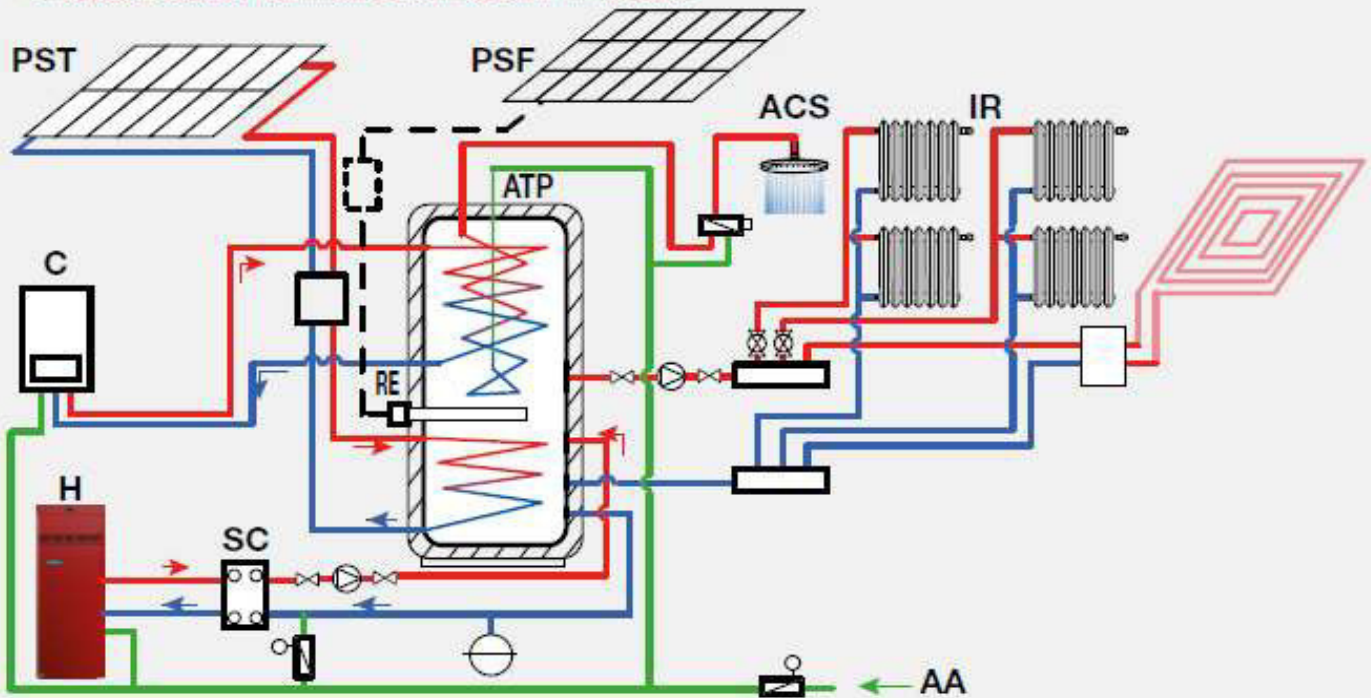


Schemi rappresentati in modo semplificato, gli impianti devono essere eseguiti da personale qualificato rispettando tutte le norme di sicurezza vigenti.  
 These diagrams have been simplified; the systems must be installed by qualified personnel in compliance with all applicable safety standards.  
 Schémas représentés de manière simplifiée, les installations doivent être réalisées par un personnel qualifié, conformément aux normes de sécurité en vigueur.  
 In vereinfachter Form dargestellte Pläne. Die Installation der Anlagen muss von qualifiziertem Fachpersonal vorgenommen werden, das sämtliche geltenden Sicherheitsvorschriften beachtet.  
 Los esquemas están representados de forma simplificada, las instalaciones tiene que efectuarlas personal cualificado respetando todas las normas de seguridad vigentes.  
 Sheme so poenostavljene, vgradnjo mora izvesti usposobljeno osebje, ki upošteva vse veljavne varnostne predpise.

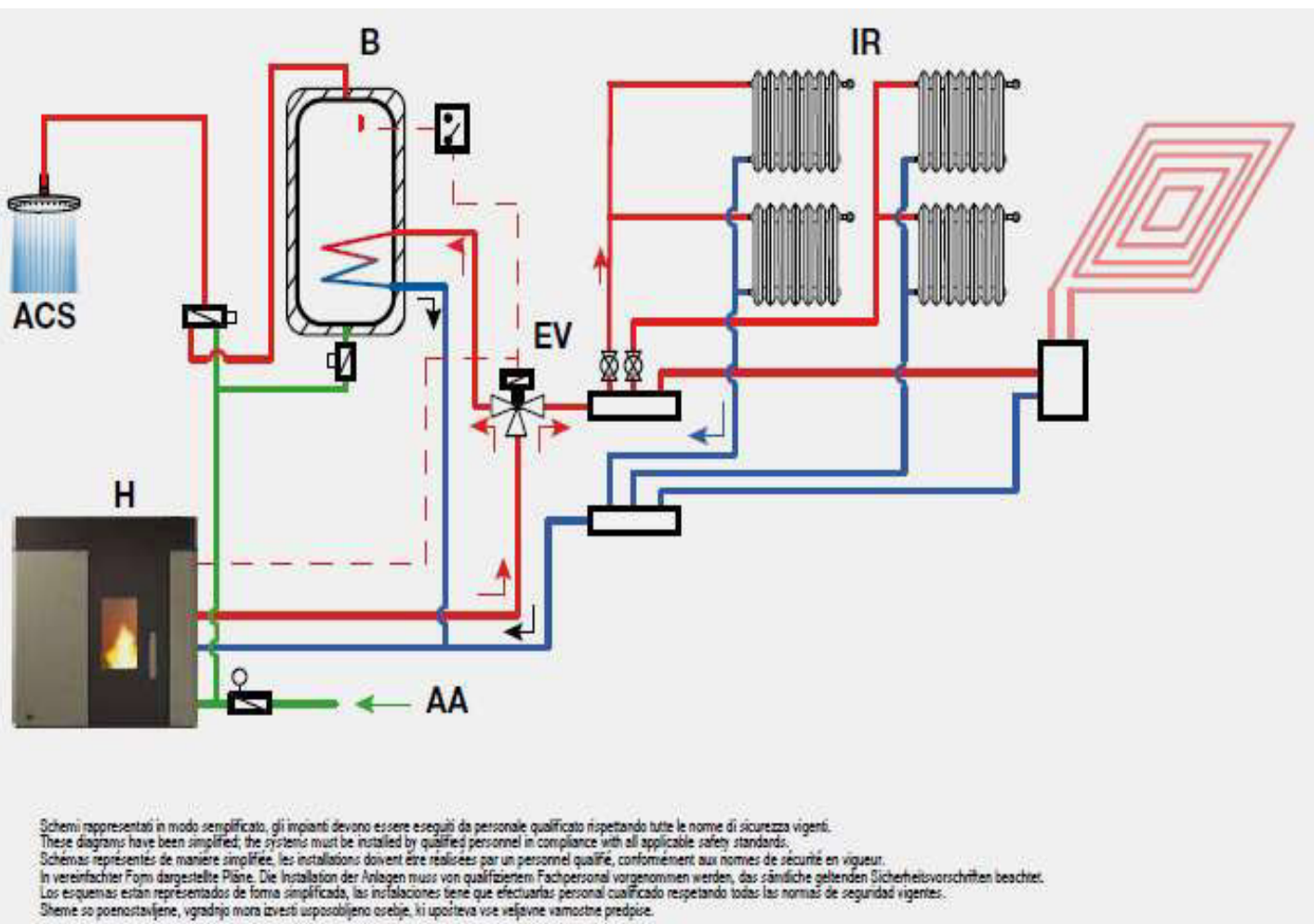
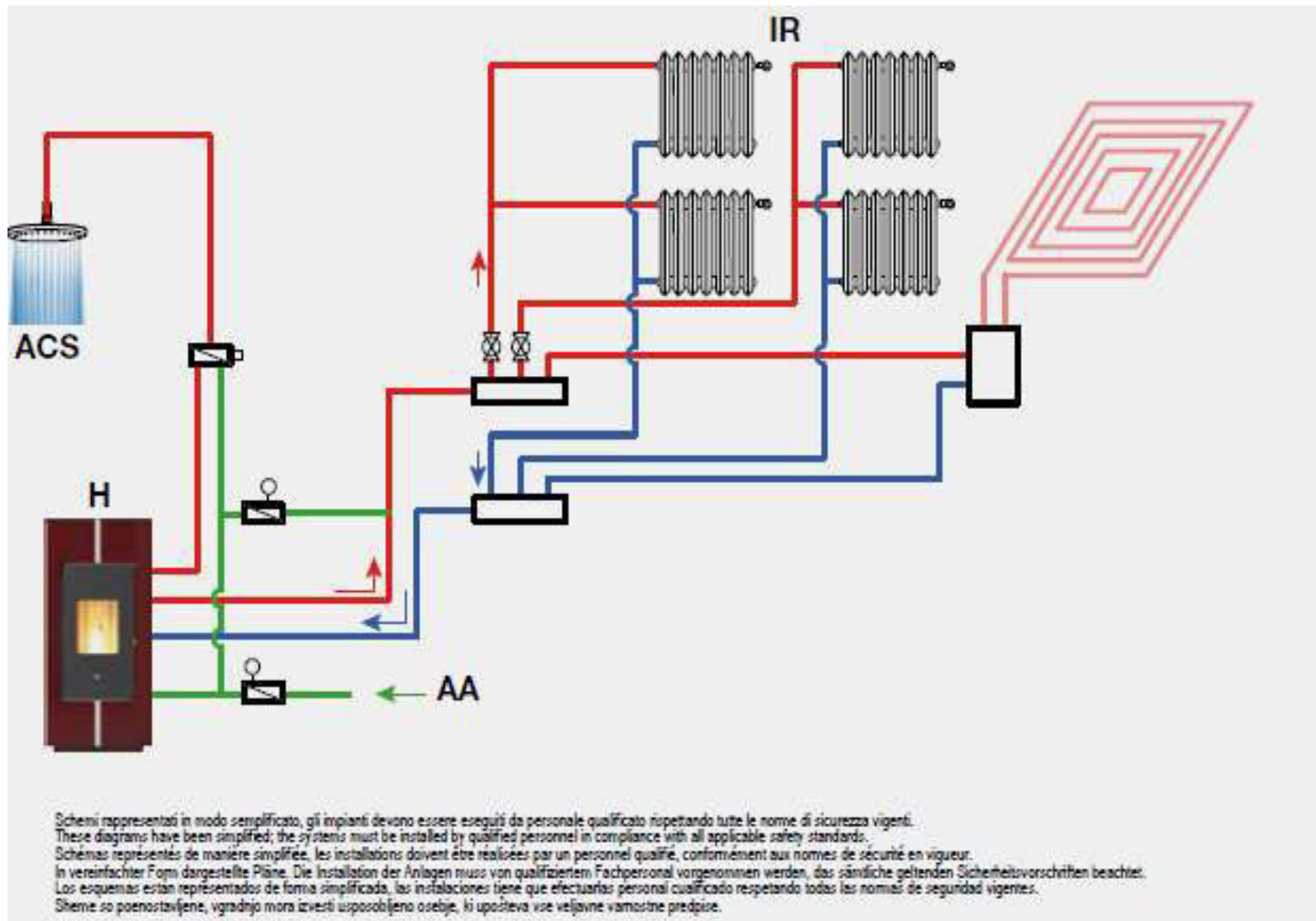
## TERMOSTUFA INTERFACCIATA CON PUFFER E VARIE FONTI DI RISCALDAMENTO



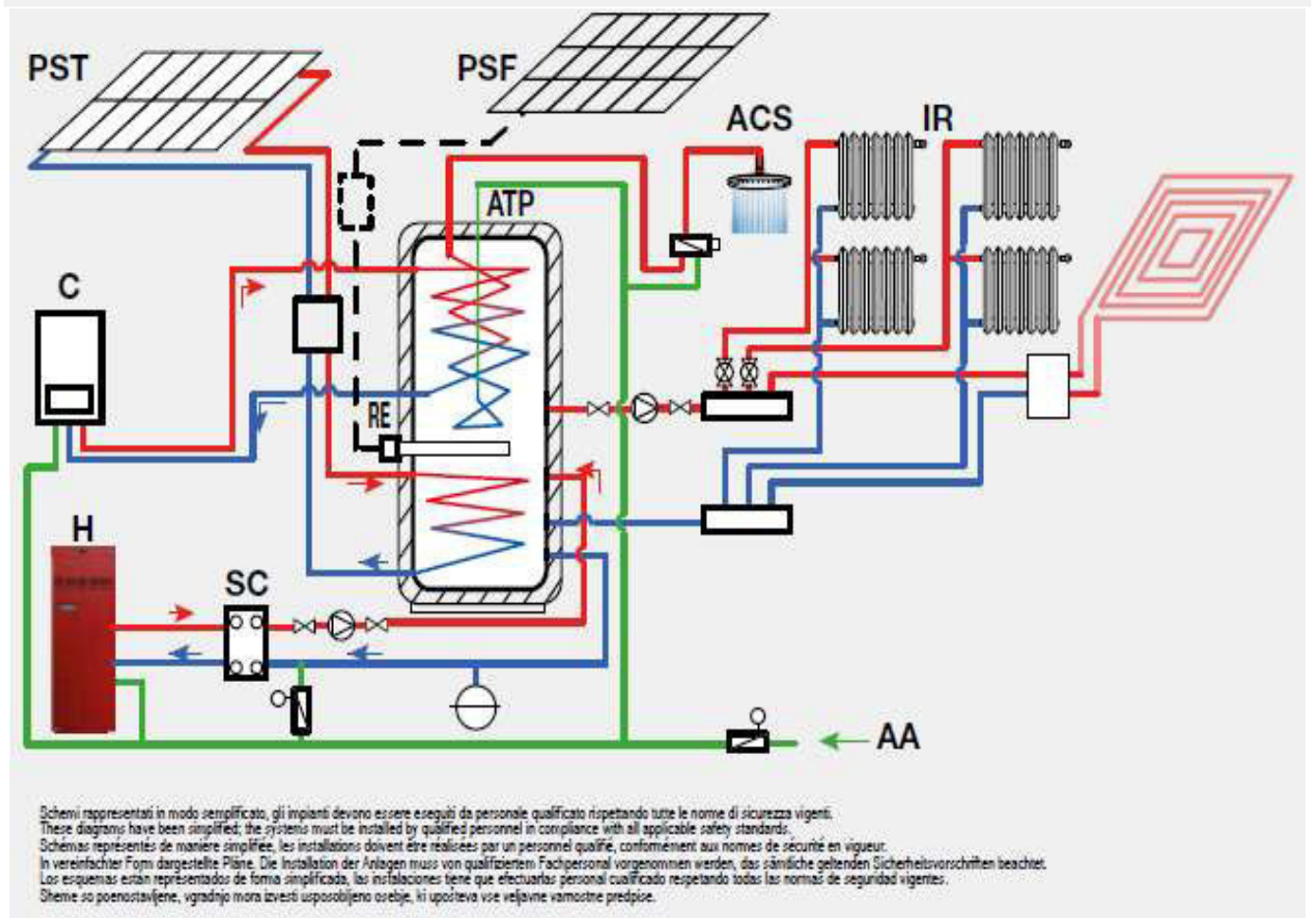
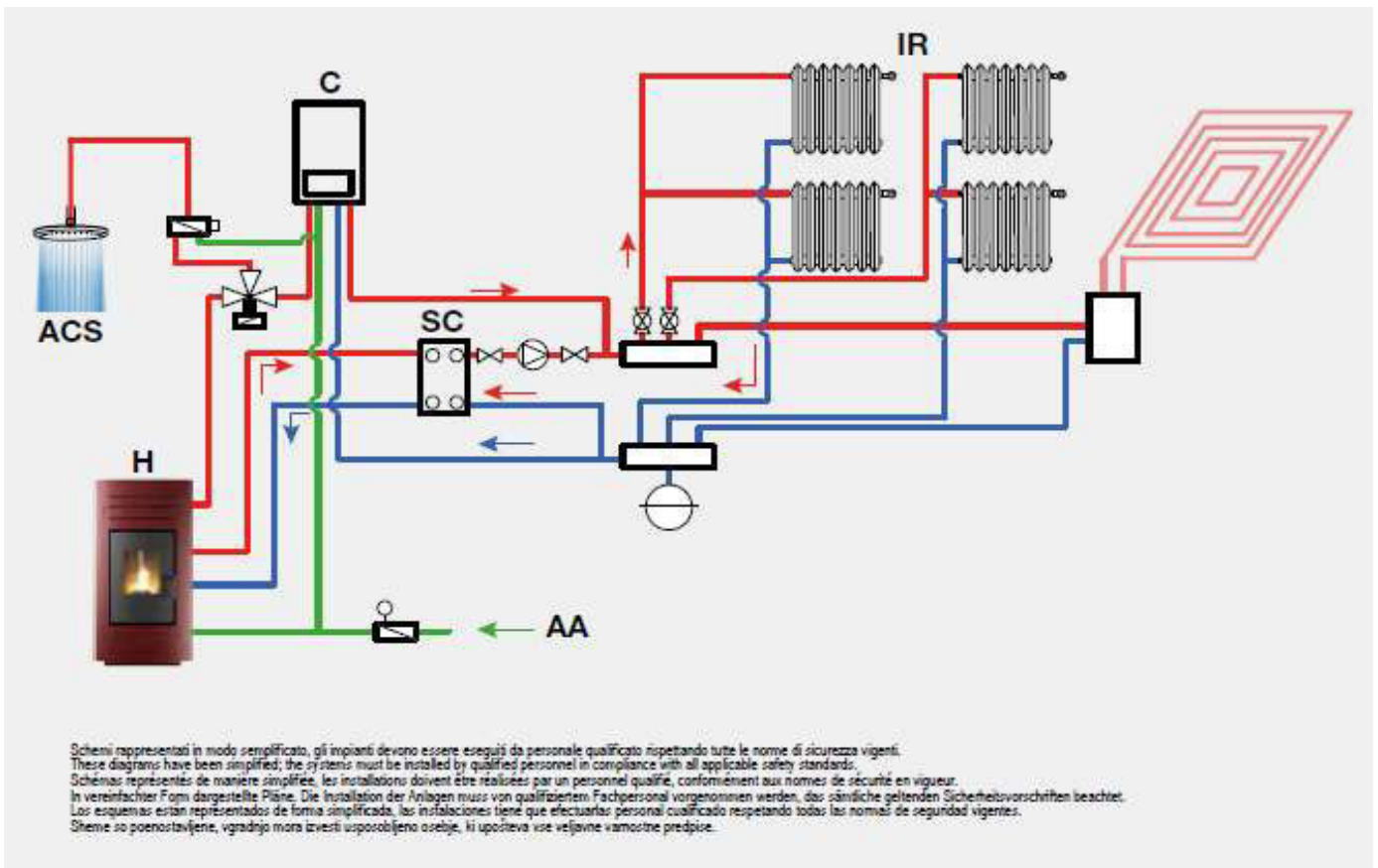
Heating stove combined with puffer and various heat sources  
 Thermopoêle interfacé avec puffer et sources de chauffe diverses  
 Mit Wärmespeicher und sonstigen Heizquellen verbundener Heizofen  
 Termoestufa conectada mediante interfaz con puffer y diversas fuentes de calentamiento  
 Termo peč, povezana s hranilnikom toplote in različnimi viri ogrevanja



Schemi rappresentati in modo semplificato, gli impianti devono essere eseguiti da personale qualificato rispettando tutte le norme di sicurezza vigenti.  
 These diagrams have been simplified; the systems must be installed by qualified personnel in compliance with all applicable safety standards.  
 Schémas représentés de manière simplifiée, les installations doivent être réalisées par un personnel qualifié, conformément aux normes de sécurité en vigueur.  
 In vereinfachter Form dargestellte Pläne. Die Installation der Anlagen muss von qualifiziertem Fachpersonal vorgenommen werden, das sämtliche geltenden Sicherheitsvorschriften beachtet.  
 Los esquemas están representados de forma simplificada, las instalaciones tiene que efectuarlas personal cualificado respetando todas las normas de seguridad vigentes.  
 Sheme so poenostavljene, vgradnjo mora izvesti usposobljeno osebje, ki upošteva vse veljavne varnostne predpise.







#### SYSTEM TYPE (EV STOVES)

Inside the electronic control unit there is the SYSTEM TYPE function (ask the installer technician). This function offers the choice of 2 types of system:

1. The stove works based on the stove temperature, room temperature or thermostat
2. The stove works on the basis of a probe for the PUFFER. A probe that controls the temperature of the external PUFFER can be installed in the AMB position (wiring diagram).

In compliance with the current installation regulations, the pellet heating stove should be installed in a ventilated place with air that is sufficient to ensure correct combustion and therefore good operation. The room must have a volume no less than 20 m<sup>3</sup>. In order to ensure good combustion (40m<sup>3</sup>/h of air) there must be a "combustion air intake" that reaches an external wall or a wall of an adjacent room with an external air intake (Ø 80mm minimum diameter). The adjacent room must not be a bedroom or bathroom, or contain any fire risks, such as storerooms, garages, combustible materials stores, etc. These air intakes must be made in such a way as to avoid being blocked internally or externally, and should be covered with a grille, metal net or suitable protection, as long as the minimum diameter is not reduced.

When it is operational, the pellet heating stove can cause a negative pressure in the room where it is installed. Therefore there should not be in the same room other naked flame devices, with the exception only of type c stoves (watertight) unless they are fitted with their own air flow.

They must not be positioned close to curtains, armchairs, furniture or to other flammable materials.

They must not be installed in explosive or potentially explosive environments which may become explosive due to the presence of machinery, materials or dust that can cause greenhouse gas emissions or which can easily ignite with sparks. Before installing the pellet heating stove, it must be remembered that all finishes or any beams made of combustible material must be positioned at a suitable distance and outside the irradiation area of the stove itself; furthermore, it must be borne in mind that in order not to compromise the correct operation of the appliances, air must be allowed to circulate inside its housing to prevent overheating, this is possible by respecting the minimum distances and making ventilation holes.

The use of hosing is recommended that connects the appliance to the hydraulic system as, in the case of ordinary or extraordinary maintenance, this makes it easy to move. It is also recommended to install a dirt separator as the electronic pump could capture the dirt of the system and become jammed.

07.1 ELECTRICAL CONNECTION

The electrical connection must be performed by qualified personnel who install circuit breakers upstream of the appliance. Particular attention must be paid when the stove is an integration to the system and all the equipment must operate as planned.

Avoid installations with electric cables that run close to fume pipes or hot components that are suitably insulated.

The voltage is 230V while the frequency is 50 Hz.

The electrical system, at the connection point, must include an earth connection as required by the Regulations 73//23 EEC and 93/98 EEC.

07.2 EXTERNAL THERMOSTAT

In these heating stoves it is possible to install an external thermostat. This operation may only be performed by authorised personnel. Use a 2-pole cable with everyday double insulation. In the event that the thermostat is closed, the stove functions at the power set. If the thermostat opened, the stove would work in MODULATE mode until the thermostat closes.

08. ELECTRONICS WITH HYDRO STOVE 6-BUTTON LCD DISPLAY

08.1 CONSOLE

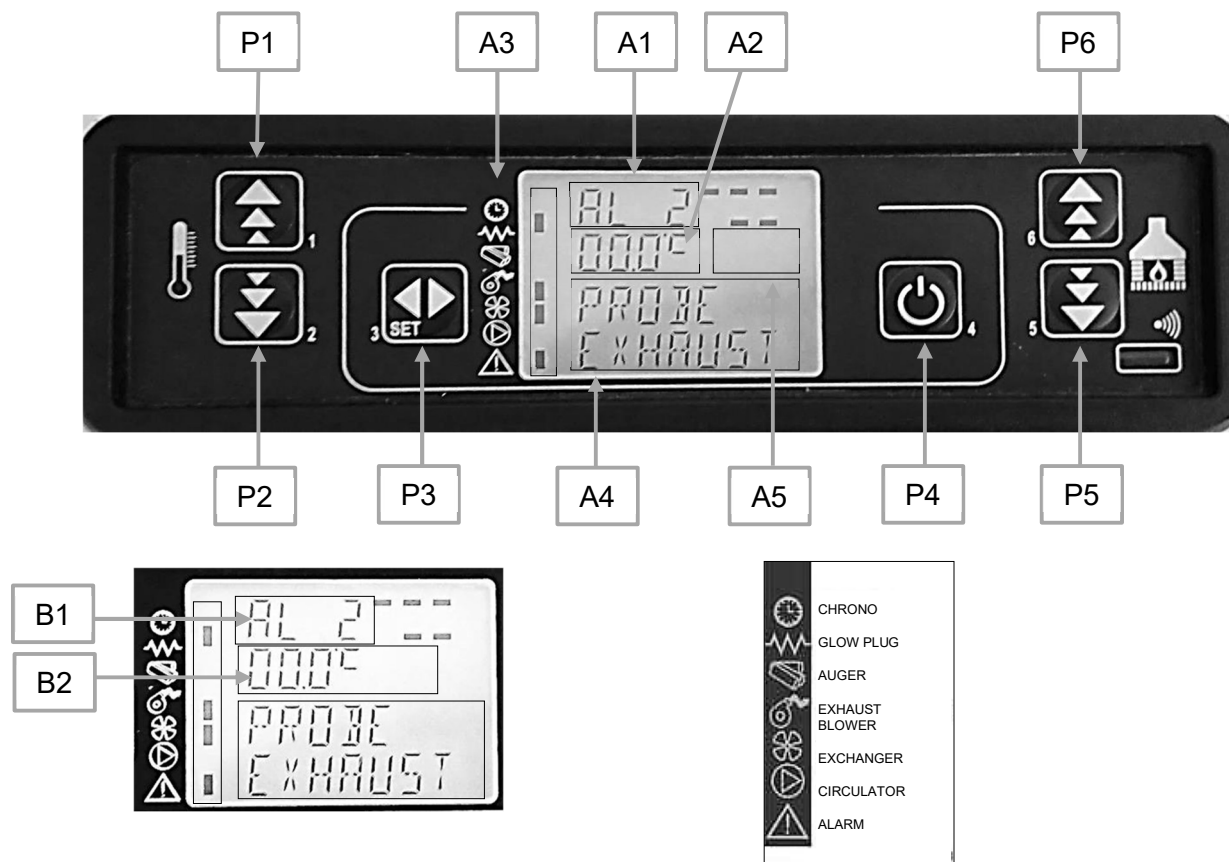


Figure 1

Figure 1 describes the meaning of the status indicators appearing on the display left side. The control panel shows the information concerning the stove status. Several types of data can be displayed and the settings available according to the access level can be modified by entering the menu.

Depending on the operating mode, the displays can take on different meanings depending on the position on the display.

## CONSOLE DESCRIPTION

### **BUTTON 1 (P1) - Temperature increase:**

When in programming mode, use this button to modify/increase the selected menu value. When in working mode/switched off, use instead this button to increase the stove temperature value.

### **BUTTON 2 (P2) - Temperature decrease:**

When in programming mode, use this button to modify/decrease the selected menu value. When in working mode/switched off, use this button to decrease the room thermostat temperature value.

### **BUTTON 3 (P3) – Set/menu:**

Use this button to access the temperature setting and user and technician parameter menu. After entering the menu, use this button to access the next sub-menu or set the value and move to the next menu item when in programming mode.

### **BUTTON 4 (P4) – ON/OFF release:**

Hold this button down for two seconds to manually switch the stove on or off respectively depending on its initial status (switched on or off). If alarms have occurred which have caused the stove to lock, the button allows unlocking and subsequent passage to the off state. After accessing the menu or during the programming phase, use this button to access the upper menu level. Any changes are automatically saved.

### **BUTTON 5 (P5) - Heat output decrease:**

When in working mode, use this button to decrease the heat output value. In menu mode, use this button to move to the next menu item or, in programming mode, to go back to the subsequent sub-menu item. Any change is automatically saved.

Fan speed setting: by pressing button 5 it is possible to adjust the room ventilation speed (IF PRESENT).

### **BUTTON 6 (P6) - Heat output increase:**

When in working mode, use this button to modify the exchanger speed. In menu mode, use this button to go back to the previous menu item or, in programming mode, to go back to the previous sub-menu item. Any change is automatically saved.

## 08.2 MENU

Press P3 (menu) to access the menu.

It includes several items and levels to access settings and control board programming.

The menu items providing access to the technical setting are protected by access code.

### USER MENU

The table below briefly describes the menu structure, focusing in particular on the functions available to users.

The menu item 01-fan adjustment is available only if the corresponding function was enabled.

### **Menu 01 – SET CLOCK**

Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the internal time clock a 3/5 year-long life.

### **Menu 02 – SET CHRONO**

#### **Submenu 02 – 01 – ENABLE CHRONO**

Allows every chrono-thermostat function to be enabled or disabled.

#### **Submenu 02 - 02 – DAILY PROGRAM**

The daily programmable chrono-thermostat functions can be enabled, disabled and set.

#### **Submenu 02 - 03 – WEEKLY PROGRAM**

The weekly programmable chrono-thermostat functions can be enabled, disabled and set. The weekly programmer has 4 independent programs whose final effect involves the combination of the 4 individual programs. The weekly programmer can be enabled or disabled. Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

Caution: perform the programming carefully avoiding generally overlapping of the activation and/or deactivation hours on the same day in different programs.

#### **Submenu 02 - 04 – PROGRAM WEEK-END**

The programmable chrono-thermostat functions can be enabled, disabled and set for the week-end (days 5 and 6, or Saturday and Sunday).

SUGGESTION: if you still do not know exactly the result you want to obtain, enable only one programme at a time to avoid confusion and unwanted stove switching on and off.

Disable the daily programme if you want to use the weekly programme. If you use the weekly programme for 1, 2, 3 and 4 programmes, never enable the week-end programme.

Always disable the weekly programme before enabling the week-end programme.

### **Menu 03 - SELECT LANGUAGE**

Use this command to select one of the languages available.

### **Menu 04 - CHOOSE SEASON**

### **Menu 04 - STAND-BY MODE - ACTIVATE DEFAULT MODE 2**

If you select the "STAND-BY" mode, the stove switches off after a period of time, set by Pr44, during which the room temperature remains at a value higher than the SET temperature.

Only if the following condition occurs it is then possible to switch the stove back on:

TSET < (Tstove-Pr43)

#### FOR THE INSTALLER:

There are 3 standby modes:

- Mode 1

#### **WITH RESPECT TO THE AMBIENT PROBE AND THE TEMPERATURE OF THE WATER.**

Having set the water temperature, commence operation of the stove.

1- With the room set reached, the stove goes into stand-by

2- With the air set not reached, the stove is working.

Nearing Set Water, the stove goes into modulation and remains in modulation.

It goes into STAND-BY only when the air set is reached.

It comes back on when the stove falls beneath the air set.

**The room probe has priority.**

- Mode 2

#### **WITH RESPECT ONLY TO THE WATER TEMPERATURE**

Having set the water temperature, commence operation of the stove.

Approaching the water set, the stove goes into modulation and when the set is passed, the stove goes into modulation and then stand-by. Below water set the stove comes on again and resumes operation.

The stove in no way considers the temperature measured by the ambient sensor of the same stove.

**Water takes priority.**

- Mode 3  
**WITH RESPECT TO THE THERMOSTAT AND TO THE TEMPERATURE OF THE WATER.**  
Having set the water temperature, commence operation of the stove.  
1- With the thermostat open the stove goes into modulation and then stand-by.  
2- With the thermostat closed the stove is working.  
Nearing Set Water, the stove goes into modulation and remains in modulation. It only goes into stand by mode when the thermostat opens the contact. It turns on when the thermostat closes the contact.  
The stove in no way considers the temperature measured by the ambient sensor of the same stove.  
**The thermostat takes priority.**

#### **Menu 05 – BUZZER MODE:**

Set it to "OFF" to disable the buzzer.

#### **Menu 06 – ENABLE FAN:**

The heating stoves with built-in room fan have this menu. With this menu it is possible to enable or disable the room fan. The fan power is pre-set according to the operating power of the stove.

#### **Menu 07 – INITIAL LOAD**

This function is important if the stove is new or if the stove is off due to the absence of pellets in the hopper.

**INITIAL IGNITION MUST BE PERFORMED BY AUTHORISED PERSONNEL ONLY, NOT BY THE PURCHASER.**

**CONTACT THE SERVICE CENTRE THAT WILL SEND OUT A SPECIALIST TECHNICIAN.**

Use this function to load pellets for a period of 90 seconds when the stove is switched off and cold. Start with button P1 and stop with button P4.

#### **Menu 08 – STOVE STATUS:**

This function displays the current status of all the devices connected to the stove. A few examples are included in the following pages.

## 08.3 USER FUNCTIONS

Standard functioning of a control board properly installed on a forced air pellet stove is described below with reference to the functions available to users. The indications listed below refer to a control board fitted with programmable chrono-thermostat.

### **Stove ignition**

Ensure that there are pellets in the hopper, that the burn pot is correctly positioned and free from any combustion residues and then close the door.

To turn on the stove, press button P4 for a few seconds. The display shows that the stove is on.

### **Start-up phase**

The stove performs all the steps of the start-up phase according to the parameters concerning its levels and times. The display will show the wording ON, as there is no pellet loading but the exhaust blower is in operation. PELLET LOADING state will occur where the pellets are being loaded into the burn pot. Once the pellets have started to burn and the fume temperature is increased, the display will show FIRE ON, a transition phase between ignition and operating power.

### **Ignition fault**

After the Pr01 time has elapsed, if the flue gas temperature has not reached the minimum permitted value, parameter Pr13, reached with the power of 2°C/min, the stove goes into alarm status.

If there are unburned pellets inside the burn pot, it is necessary to empty the burn pot before switching on the stove. Pellet waste and potential bursting inside the combustion chamber will thus be avoided.

If the pellets have started to burn but the FAILED IGNITION alarm status persists, it is necessary to wait for all the pellets to burn and then to re-ignite.

Check that there are pellets inside the hopper.

### **Stove operational**

Once the start-up phase is completed, the stove switches to work mode which represents the normal operating mode.

If the stove temperature is the same as the set power, the pump starts.

### **Changing set room temperature**

To change the room temperature, simply press the P2 button. The display shows the current SET temperature value.

### **Changing the temperature setting of the heating stove**

To change the room temperature, simply press the P1 button. The display shows the current SET temperature value.

### **External thermostat/chrono-thermostat use**

If you want to use an external programmable thermostat, connect it to the TERM clamps (connector CN7 pin 7-8).

- **External thermostat**
- **External chrono-thermostat**

The stove external thermostat is enabled when the contact is closed with stove on.

Room temperature reaches the set value (SET temperature)

When the set room temperature value is reached or the fume temperature has reached the Pr13 value, the stove heat output is set automatically to the minimum value, MODULATION mode.

If the stove is in the STAND-BY mode, it switches off after the period of time set by Pr44 and after reaching the SET temperature.

Restart occurs after the following condition has occurred:  $T_{\text{ambient}} > (T_{\text{SET}} + Pr43)$

The same situation is obtained when the heating stove temperature reaches the same level as that set. The modulation status is evident and, if enabled, STANDBY status.

### Cleaning the burn pot

When the stove is in the working mode, the "BURN POT CLEANING" mode is activated for the period set by Pr12 parameter at the intervals set by Pr03 parameter.

### Stove switch off

Hold down P4 button for approx. 2 seconds to switch off the stove. The Auger tube stops immediately and the exhaust blower reaches its maximum speed value. The FINAL CLEANING phase is performed.

At the end of the period of time set by Pr39, when the fume temperature has reached a value below Pr13 parameter, the exhaust blower stops.

### Stove switched off

The display will show the wording OFF. The exhaust blower stops.

### Stove re-ignition

It will be possible to switch the stove back on only at the end of the safety period of time set by Pr38 and if the fume temperature has reached a value below Pr13.

### WHAT HAPPENS IF...:

#### Pellet ignition failure

In case of non-ignition, the display shows the alarm message "NO IGN".

#### Power outage

##### Pr48 = 0

When the power is resumed after an outage, the stove enters the FINAL CLEANING phase and waits until the fume temperature reaches a value below Pr13.

##### Pr48 = T seconds

After a power outage, one of the following conditions may occur depending on the stove previous status:

<i>previous status</i>	<i>power outage duration</i>	<i>new status</i>
switched off	any	switched off
ignition	< T	ignition
pellet loading without pre-load	< T	pellet loading
pellet loading with pre-load	any	switching off
waiting for flame	< T	waiting for flame
working mode	< T	working mode
burn pot cleaning	< T	burn pot cleaning
switching off	< T	switching off

If the power outage duration is longer than T, the stove switches off.

## 09. HYDRO STOVE ALARMS

In the event of a malfunction, the control board indicates the problem and activates various procedures depending on the type of alarm. The possible alarm messages are listed below:

<b>Cause</b>	<b>Display shows</b>
Fume temperature sensor	<b>FUME PROBE ALARM</b>
Fume overheating	<b>ALARM HOT TEMP</b>
Ignition fault	<b>ALARM NO FIRE</b>
Switches off when in working mode	<b>ALARM NO FIRE</b>
Power outage	<b>COOL FIRE</b>
Auger tube safety pressure switch	<b>ALARM DEP FAIL</b>
General safety thermostat	<b>ALARM SIC FAIL</b>
Damaged exhaust blower	<b>ALARM FAN FAIL</b>

In case of alarm, the stove is immediately switched off.

The alarm status is reached after the Pr11 time and can be reset by pressing the P4 button.

#### Fume temperature sensor alarm

The alarm is triggered when the fume temperature probe is not working properly or is disconnected. The stove switches off when the alarm is active.

#### Fume overtemperature alarm

It occurs if the fume probe detects a temperature higher than 280°C. The display shows the message **ALARM HOT TEMP**.

The stove switching-off phase starts immediately.

#### Ignition failure alarm.

The alarm is triggered whenever ignition fails. The shutdown procedure is immediately activated.

#### Stove switching-off during working mode alarm

If during the work phase the flame goes out and the flue gas temperature drops below the minimum work threshold (parameter Pr13), the **ALARM NO FIRE** alarm is activated. The shutdown procedure is immediately activated.

#### Auger tube safety pressure switch alarm

If the pressure switch detects a value below the trigger threshold, it immediately switches off the auger tube (to which it is connected in series) while the control board acquires this change in status via the AL 2 terminal in CN4. **ALARM DEP FAIL** is displayed and the system is shut down.

### General thermostat alarm

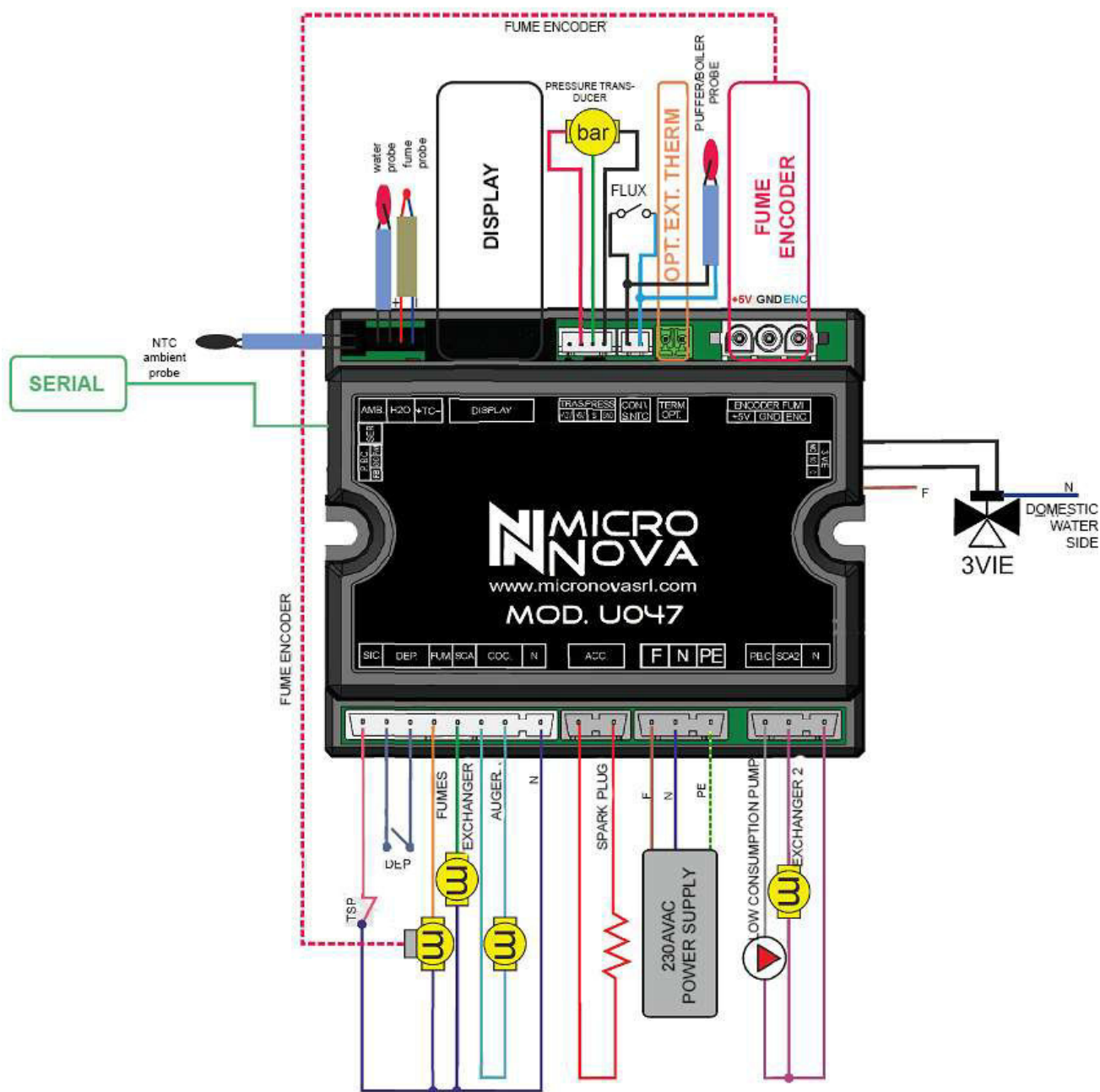
In the event that the safety thermostat detects a temperature above the trip threshold, the same intervenes to disconnect the auger (whose power supply is in series) and simultaneously, through terminal AL 1 in CN4, allows the controller to acquire this change of state. **ALARM SIC FAIL** is displayed and the system is stopped. Unscrew the black cap on the back of the stove and press the button to reset the contact.



### Faulty fume fan alarm

In the event that the fume fan fails, the stove stops and the **ALARM FAN FAIL** message is displayed. The shutdown procedure is immediately activated.

## 10. HYDRO STOVE CONNECTIONS



DEP = VACUUM METER

TSP = SAFETY THERMOSTAT



## 11.1 HYDRO STOVE

The stove requires simple and frequent cleaning to guarantee maximum efficiency and correct operation.

The Buyer must carry out regular cleaning of the stove following the instructions contained in this Instruction Manual, and in particular must carry out daily cleaning before each ignition or refilling of pellets, the ash drawer, the fire pit and the combustion chamber.

Failure to clean and/or routinely maintain the stove can cause: malfunctions, obstruction of the burn pot and pipes, poor or slow combustion, or overheating of the stove and fire in the hopper.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage to persons or property caused by the failure/incorrect cleaning and routine maintenance of the stove.

Perform daily cleaning in a completely cold stove as follows:

- Turn off the stove using the OFF button and pull out the plug;
- Wait until the stove is completely cold;
- Empty the ash drawer, vacuuming it or disposing of the ash in the domestic waste;
- Vacuum the combustion chamber, ensuring that there are no burning embers remaining. If embers are still burning, the vacuum cleaner will catch fire;
- Remove the ash that collects inside the firebox and on the door.
- Clean the glass with a damp cloth or with a ball of damp newspaper dipped in ash. If the operation is performed with the stove hot there is a risk of the glass exploding.



Caution: Only use a dry cloth to clean the stove. Do not use abrasive material or products that could corrode or bleach surfaces. At the end of the season, with the last ignition, the pellet remaining in the auger must be consumed completely. The auger must remain empty to avoid clogging due to solidified sawdust residue created by moisture.

## 12. EV STOVE INSTALLATION

When transporting do not position the product horizontally. Unloading of the product must be performed using lifting means that are suitable and that have characteristics that are consistent with the weight of the stove. The operator must make sure that during offloading and lifting of the stove there are no persons or objects nearby. When unpacking, avoid damaging the product with cutters or blunt tools. Keep the packaging out of the reach of children. Unscrew from under the pallet the screws that secure it to the latter and using a regular cart position the stove at the dedicated point paying attention to any impediments that could prevent installation or damage the product.

## Installation place

The pellet stove must be installed in a Technical Room. The technical room must have characteristics that are adequate to installation of the stove: the support surface must sustain the weight of the stove; it must not be flammable and must be levelled. The same applies for the walls of the room: they must not be made of flammable materials and must be able to support the weight of any hydraulic components. Observe the safety distances described above.

In compliance with the current regulations for installation, the pellet stove must be installed in a ventilated place with an air flow that is sufficient to ensure correct combustion and therefore efficient operation. The room must have a volume no less than 20 m<sup>3</sup>. In order to ensure good combustion (40m<sup>3</sup>/h of air) there must be a "combustion air intake" that reaches an external wall or a wall of an adjacent room with an external air intake (Ø 80mm minimum diameter). The adjacent room must not be a bedroom or bathroom, or contain any fire risks, such as storerooms, garages, combustible materials stores, etc. These air intakes must be made in such a way as to avoid being blocked internally or externally, and should be covered with a grille, metal net or suitable protection, as long as the minimum diameter is not reduced.

When it is operational, the pellet stove can cause a negative pressure in the room where it is installed. Therefore there should not be in the same room other naked flame devices, with the exception only of type c stoves (watertight) unless they are fitted with their own air flow.

They must not be positioned close to curtains, armchairs, furniture or to other flammable materials.

They must not be installed in explosive or potentially explosive environments which may become explosive due to the presence of machinery, materials or dust that can cause greenhouse gas emissions or which can easily ignite with sparks. Before starting to install the pellet stove, bear in mind that all the finishes or any beams in flammable material must be positioned at a safe distance and outside the area of irradiation of the stove itself. Also bear in mind that to avoid compromising correct operation of the appliance it is essential to create a recirculation of air inside its housing, which prevents overheating. This is possible by observing minimum distances and by creating ventilation holes.

## 12.1 HYDRAULIC CONNECTION

Internally, the stove is equipped with all the components for safety: automatic ventilating valve, 3-bar safety valve, expansion vessel, stove safety thermostat and water pressure sensor.

It is nonetheless **MANDATORY** to install an anti-condensate valve and a manometer for pressure reading. Remember to discharge the hydraulic system before switching on the appliance.

The use of hosing is recommended that connects the appliance to the hydraulic system as, in the case of ordinary or extraordinary maintenance, this makes it easy to move. It is also recommended to install a dirt separator as the electronic pump could capture the dirt of the system and become jammed.

See the PRODUCT DESCRIPTION chapter regarding the distance between the connections and also the size.

The system pressure must range from 0.5 to 2.5 bar. If these thresholds are exceeded, this will trigger the WATER PRESSURE alarm that will cause shutdown of the product. The recommended pressure is 1.5 bar.

## 12.2 DOMESTIC WATER KIT

If the stove with DOMESTIC KIT was purchased, the entry of domestic cold water and the outlet of domestic hot water must also be provided. Inside the stove there is already a three-way valve and a flow switch that automatically comes into operation when there is a demand for domestic hot water. See the PRODUCT DESCRIPTION chapter regarding the distance between the connections and also the size.

## 12.3 ELECTRICAL CONNECTION

The electrical connection must be performed by qualified personnel who install circuit breakers upstream of the appliance.

Special attention should be paid when the stove is part of the system and all equipment must operate as planned.

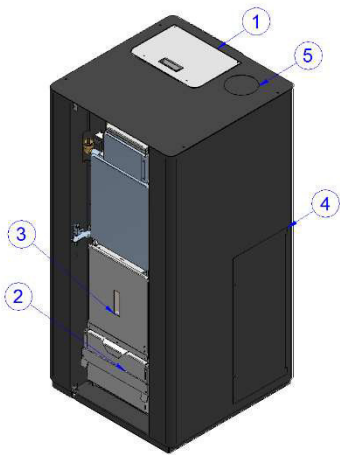
Avoid installations with electric cables that run close to fume pipes or hot components that are suitably insulated.

The voltage is 230V while the frequency is 50 Hz.

The electrical system where it is connected must be fitted with a conductor as required by the Regulations 73/23 EEC and 93/98 EEC.

## 12.4 EXTERNAL THERMOSTAT

In these stoves it is possible to install an external thermostat. This operation may only be performed by authorised personnel. Use a 2-pole cable with everyday double insulation. Connect the 2 poles to connector 7 of the electronic board. In the event that the thermostat is closed, the stove functions at the power set. If the thermostat opened, the stove would work in MODULATE mode until the thermostat closed.



1. Pellet tank
2. Ash collection compartment
3. Firebox door
4. Lateral inspection
5. Upper fume outlet

## 12.5 IGNITION

First connect the stove plug to the mains and load the pellet hopper. For this operation it is very important not to empty the entire bag in one go but to perform the operation slowly to avoid pouring the powder of the pellets present in the bag into the hopper. Be careful not to damage the gasket in the lid of the pellet hopper and keep the support surface of the latter clean.

The pellet must not be of poor quality; the use of poor quality pellets can cause the stove to not reach maximum efficiency due to poor combustion and degradation of the stove itself. Check that the door of the pellet hopper is fully and correctly closed otherwise the stove will not work properly.

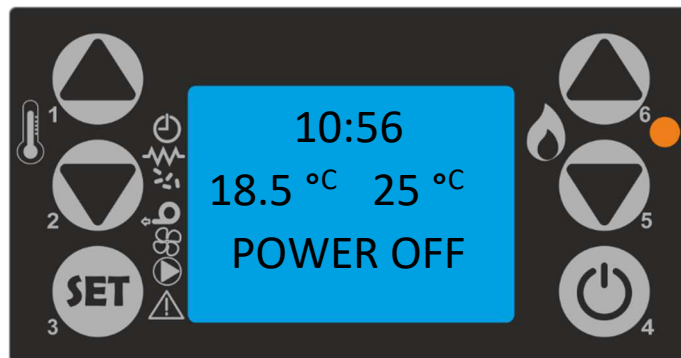
There is an end of stroke contact in the door that in case it is not closed correctly removes the power supply to the auger tube and would send the stove into DEP alarm.

Press and hold the P5 button to display the system pressure. Having checked the latter, vented the system, loaded the pellets and performed INITIAL LOAD, switch on the stove.

The stove contains the cleaning mechanism of the burn pot and of the turbulators. Before loading the pellets, the stove activates these cleaning devices so that the burn pot and the exchanger pipes are always clean to obtain the highest yield possible. This cleaning phase lasts on average 4 minutes. After cleaning, if all the mechanisms have successfully concluded their cycle then PELLETT LOADING will take place otherwise there will be an alarm that will interrupt the ignition phase.

## 13 ELECTRONICS WITH 6-KEY LCD DISPLAY (EV STOVE)








### 13.1 CONSOLE



The control panel shows the information concerning the stove operation status. Several types of data can be displayed and the settings available according to the access level can be modified by entering the menu.

Depending on the selected mode and on their position on the display, the data visualised may acquire different meanings.

The meaning of the status indicators on the left side of the display.

-  Active chrono-thermostat
-  Active ignition spark plug
-  Active auger tube
-  Active exhaust blower
-  Active room ventilation
-  Active pump
-  Alarm

Activation in the display of one of the segments in the "status" area indicates activation of the corresponding device.

### PANEL DESCRIPTION

**BUTTON 1 (P1) – Temperature increase:**

When in programming mode, use this button to modify/increase the selected menu value. When in working mode/switched off, use instead this button to increase the stove temperature value.

By keeping button P1 pressed, the pellet loading seconds and the actual stove power will be displayed.

**BUTTON 2 (P2) - Temperature decrease:**

When in programming mode, use this button to modify/decrease the selected menu value. When in working mode/switched off, use this button to decrease the room thermostat temperature value.

Holding Button P2 displays the fume temperature and the fume motor rpm.

**BUTTON 3 (P3) – Set/menu:**

Use this button to access the temperature setting and user and technician parameter menu. After entering the menu, use this button to access the next sub-menu or set the value and move to the next menu item when in programming mode.

**BUTTON 4 (P4) – ON/OFF release:**

Hold this button down for two seconds to manually switch the stove on or off depending on whether it is respectively in on or off status. Should there be any alarms that have blocked the stove, press this button to release it and subsequently to switch it off. After accessing the menu or during the programming phase, use this button to access the upper menu level. Any changes are automatically saved.

**BUTTON 5 (P5) - Heat output decrease:**

When in working mode, use this button to decrease the heat output value. In menu mode, use this button to move to the next menu item or, in programming mode, to go back to the subsequent sub-menu item. Any change is automatically saved.

Hold the button P5 to display the temperature of the card and the water pressure.

**BUTTON 6 (P6) - Heat output increase:**

When in WORKING mode, use this button to modify the exchanger speed. In menu mode, use this button to go back to the previous menu item or, in programming mode, to go back to the previous sub-menu item. Any change is automatically saved.

**13.2 MENU**

Pressing the P3 button accesses the menu.

It includes several items and levels to access settings and control board programming.

The menu items providing access to the technical setting are protected by access code.

**USER MENU**

The table below briefly describes the menu structure, focusing in particular on the functions available to users.

**Menu 01 – SET CLOCK**

Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the internal time clock a 3/5 year-long life.

**Menu 02 – SET CHRONO**

**Submenu 02 – 01 - ENABLE CHRONO**

The programmable thermostat functions can be disabled and enabled.

**Submenu 02 – 02 – DAILY PROGRAM**

The daily programmable chrono-thermostat functions can be enabled, disabled and set.

It is possible to set two on/off times defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control:

<b>Selection</b>	<b>Meaning</b>	<b>Available values</b>
START 1	switching-on time	time - OFF
STOP 1	switching-off time	time - OFF
START 2	switching-on time	time - OFF
STOP 2	switching-off time	time - OFF

**Submenu 02 – 03 – WEEKLY PROGRAM**

The weekly programmable chrono-thermostat functions can be enabled, disabled and set.

The weekly programmer has 4 independent programs whose final effect involves the combination of the 4 individual programs.

The weekly programmer can be enabled or disabled.

Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

Caution: perform the programming carefully avoiding generally overlapping of the activation and/or deactivation hours on the same day in different programs.

**Submenu 02 - 03 – PROGRAM WEEK-END**

The programmable chrono-thermostat functions can be enabled, disabled and set for the week-end (days 5 and 6, or Saturday and Sunday).

SUGGESTION: if you still do not know exactly the result you want to obtain, enable only one programme at a time to avoid confusion and unwanted stove switching on and off.

Disable the daily programme if you want to use the weekly programme. If you use the weekly programme for 1, 2, 3 and 4 programmes, never enable the week-end programme.

Always disable the weekly programme before enabling the week-end programme.

**Menu 03 – SELECT LANGUAGE**

Use this command to select one of the languages available.

#### Menu 04 – STAND-BY MODE – ACTIVATE MODE 2

If you select the "STAND-BY" mode, the stove switches off after a period of time, set by Pr44, during which the room temperature remains at a value higher than the SET temperature.

Only if the following condition occurs it is then possible to switch the stove back on:

TSET < (Tstove-Pr43)

FOR THE INSTALLER:

There are 3 standby modes:

- Mode 1  
**WITH RESPECT TO THE WATER TEMPERATURE ENVIRONMENT PROBE**  
Having set the water temperature, commence operation of the stove.  
1- With the room set reached, the stove goes into stand-by.  
2- With the air set not reached, the stove is working.  
Approaching the Water Set, the stove goes into modulation and remains in modulation.  
It only goes into stand-by when the air set is reached.  
It comes back on when the stove falls below the Air Set.  
**The room probe has priority.**  
**In this case, the pump will shut off to maintain the temperature in the stove.**
- Mode 2  
**WITH RESPECT ONLY TO THE WATER TEMPERATURE**  
Having set the water temperature, commence operation of the stove.  
Nearing the Set Water, the stove goes into modulation and when it is passed the Set goes into modulation and then stand-by.  
Below Set the stove comes on again and resumes operation.  
The stove in no way considers the temperature measured by the ambient sensor of the same stove.  
**Water takes priority.**
- Mode 3  
**WITH RESPECT TO THE THERMOSTAT AND TO THE TEMPERATURE OF THE WATER.**  
Having set the water temperature, commence operation of the stove.  
1- With the thermostat open the stove goes into modulation and then stand-by.  
2- With thermostat closed the stove is operational.  
Nearing Set Water, the stove goes into modulation and remains in modulation. It only goes into stand by mode when the thermostat opens the contact. It turns on when the thermostat closes the contact.  
The stove in no way considers the temperature measured by the ambient sensor of the same stove.  
**The thermostat takes priority.**  
**In this case, the pump will shut off to maintain the temperature in the stove**

#### Menu 05 – BUZZER MODE

When "OFF", the acoustic signal is disabled.

#### Menu 06 – INITIAL LOAD

This function is important if the stove is new or if the stove is off due to the absence of pellets in the hopper.

INITIAL IGNITION MUST BE PERFORMED BY AUTHORISED PERSONNEL ONLY, NOT BY THE PURCHASER.

CONTACT THE ASSISTANCE CENTRE TO ARRANGE TO SEND OUT THE SPECIALIST TECHNICIAN TO YOU.

Use this function to load pellets for a pre-defined period when the stove is switched off and cold. Start with button P1 and stop with button P4. Initial loading is only enabled if the stove is turned off.

#### Menu 07 – STOVE STATUS

This function displays the current status of the stove showing the status of all the devices connected to it. A few examples are included in the following pages. The following will be displayed: status time (including ignition, shutdown, work, etc.), the pellet load and power, the flue gas temperature and the motor rpm, the board temperature and the water pressure.

#### Menu 08 – TECHNICAL CALIBRATIONS

Menu for technicians, installers only.

### 13.3 USER FUNCTIONS

Standard functioning of a control board properly installed on a stove is described below with reference to the functions available to users. The indications listed below refer to a control board fitted with programmable chrono-thermostat.

#### Stove ignition

Ensure that there are pellets in the hopper, that the burn pot is correctly positioned and free from any combustion residues and then close the door.

To turn on the stove, press button P4 for a few seconds. The display shows that the stove is on.

#### Start-up phase

The stove performs all the steps of the start-up phase according to the parameters concerning its levels and times. The display will show the wording ON, as there is no pellet loading but the exhaust blower is in operation. PELLET LOADING state will occur where the pellets are being loaded into the burn pot. Once the pellets have started to burn and the fume temperature is increased, the display will show FIRE ON, a transition phase between ignition and operating output.

#### Ignition fault

If the fume temperature has not reached the minimum permitted value after a predefined time, at a rate of 2°C/min, the stove goes into alarm status.

If there are unburned pellets inside the burn pot, it is necessary to empty the burn pot before switching on the stove again. Pellet waste and potential bursting inside the combustion chamber will thus be avoided. If the pellets have begun to burn but the alarm state persists, wait until all the pellets are burning and then switch on again. Check that there are pellets inside the hopper.

#### Stove operational

At the end of the start-up phase, if no problems occurred, the stove enters its normal working mode.

If the temperature of the stove is the same as that set, the pump will come on, in this case at 55°C.

Upon reaching the set temperature of the stove, the stove will move into MODULATION and will work automatically at minimum power level.

Every 8 hours of continuous work, the stove performs automatic shutdown in order to guarantee cleaning of the burn pot and turbulators.

#### Changing set room temperature

To change the room temperature, simply press the P2 button. The display shows the current SET temperature value.

### Changing set stove temperature

To change the room temperature, simply press the P1 button. The display shows the current SET temperature value.

### External thermostat/chrono-thermostat use

If you want to use an external programmable thermostat, connect it to the TERM clamps (connector CN7 pin 7-8).

- **External thermostat**
- **External chrono-thermostat**

The stove is enabled with the stove on when the contact is closed.

### Room temperature reaches the set value (SET temperature)

When the set room temperature value is reached or the fume temperature has reached the safely value, the stove heat output is set automatically to the minimum value, MODULATION mode.

If the stove is in the STAND-BY mode, it switches off with a delay equal to a pre-set time after reaching the SET temperature. Restart takes place after occurring of the condition in which the ambient temperature lowered.

The same situation is obtained when the stove temperature reaches the same level as that set. The modulation status is evident and, if enabled, STANDBY status.

### Cleaning the burn pot

When the stove is in the working mode, the "BURN POT CLEANING" mode is activated for the period determined by a pre-set parameter at certain intervals.

### Power off of the stove

Hold down P4 button for approx. 2 seconds to switch off the stove. The Auger tube stops immediately and the exhaust blower reaches its maximum speed value. The FINAL CLEANING phase is performed.

At the end of the period of time set when the fume temperature has fallen below the set value, the fume extractor stops.

### Stove off

The display will show the wording OFF. The exhaust blower stops.

### Switching on the stove again

It will be possible to switch the stove back on only at the end of the safety period of time set and if the fume temperature has not cooled.

### Domestic hot water kit

If the product was purchased with a domestic Kit, after connecting the water inlet and outlet, turn on the stove. When the stove is working and a sanitary hot water valve is opened, the display will show DOMESTIC WATER. The stove, if it is in the modulation state, will move to maximum power to obtain all the thermal power available to the domestic hot water system. Once there is no more demand for domestic hot water the stove will return to the thermal power determined based on the temperature of the water in the stove.

### PUFFER probe installation

Once the probe is installed in the AMB terminal, choose the type of system from the Technical Menu. When you have chosen type 1, keys 1 and 2 of the initial screen offer the possibility to set the temperature for the PUFFER. The stove water is automatically calculated at 10°C higher than the SET PUFFER. Once the SET PUFFER plus the pre-set Delta have been reached, the stove will move into modulation and then stand-by.

### WHAT HAPPENS IF...:

#### Pellet ignition failure

In case of non-ignition, the display shows the alarm message "NO IGN".

#### Power outage

##### Pr48 = 0

When the power is resumed after an outage, the stove enters the FINAL CLEANING phase and waits until the fume temperature reaches a value below Pr13

##### Pr48 = T seconds

After a power outage, one of the following conditions may occur depending on the stove previous status:

<i>previous status</i>	<i>power outage duration</i>	<i>new status</i>
switched off	any	switched off
ignition	< T	ignition
pellet loading without pre-load	< T	pellet loading
pellet loading with pre-load	any	switching off
waiting for flame	< T	waiting for flame
working mode	< T	working mode
burn pot cleaning	< T	burn pot cleaning
switching off	< T	switching off

If the power outage duration is longer than T, the stove switches off.

In the event of a malfunction, the control board indicates the problem and activates various procedures depending on the type of alarm. The possible alarm messages are listed below:

Display shows	No.	Cause
<b>WATER SENSOR ALARM</b>	(AL C)	Water probe broken or shorted
<b>HOT WATER ALARM</b>	(AL D)	Stove water maximum threshold exceeded
<b>WATER PRESS ALARM</b>	(AL E)	Water pressure too low or too high
<b>FUME SENSOR ALARM</b>	(2)	Fume temperature probe fault
<b>HOT FUME ALARM</b>	(3)	Fume overheating
<b>EXTRACTION FAULT ALARM</b>	(4)	Exhaust blower fault, not working
<b>IGNITION FAULT ALARM</b>	(5)	Stove does not ignite
<b>NO PELLET ALARM</b>	(6)	Shutting down due to insufficient pellets
<b>THERMAL/DOOR SAFETY ALARM</b>	(7)	Safety thermostat tripped or door not completely closed
<b>NO NEG. PRESS ALARM</b>	(8)	Depressor activated
<b>AUGER TUBE ENCODER ALARM</b>	(AL G)	Faulty auger tube encoder
<b>AUGER TRIAC ERROR ALARM</b>	(AL B)	The auger tube turns continuously
<b>CLEANER FAULT ALARM</b>	(AL E)	The burn pot cleaner is blocked
<b>ALARM TURBULATOR FAULT</b>	(AL F)	Turbulator cleaning is blocked
<b>POWER OUTAGE ALARM</b>	(1)	Absence of mains voltage

In case of alarm, the stove is immediately switched off.

The alarm status can be reset by pressing the P4 button.

#### Safety thermostat

If the safety thermostat detects a water temperature exceeding the trigger threshold, it immediately switches off the auger tube (to which it is connected in series), while acquiring this change in status via the AL1 terminal on CN4. The message **THERMAL SAFETY ALARM** appears on the display and the system is switched off. Unscrew the black cap on the back of the stove and press the button to reset the contact.



#### Negative pressure alarm

This alarm occurs if:

- The flue pipe is non-compliant: the pipe must minimise the pressure in Pascals required by the manufacturer (see TECHNICAL DATA) at both low and maximum heat output;
- The flue pipe or combustion air intake is blocked.
- The door of the combustion chamber and/or the door of the pellet tank are open.
- Excessive dirt inside fume circulation area: empty the ash that is deposited in the part adjacent to the ash drawer compartment.

#### Damage exhaust blower alarm

In case the fume extraction fan breaks, the stove switches off and the message **EXTRACTION FAULT ALARM** is displayed

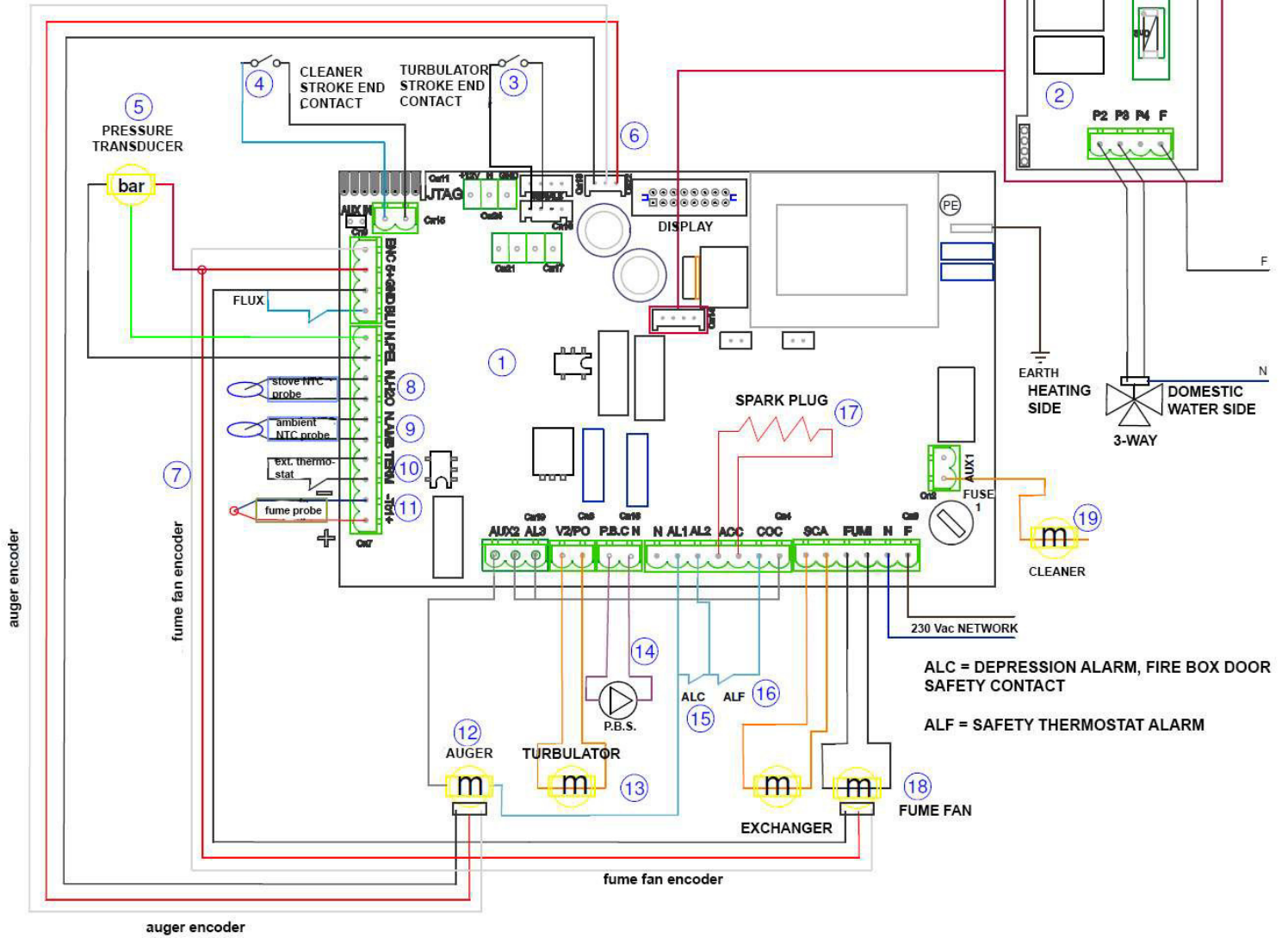
#### Power outage alarm

In the event that there is an electrical power failure for a given time, the stove, with restoring of the electricity, will change to **BLACK-OUT** alarm. It is necessary to wait for the stove to cool down and then turn it back on.



# ELECTRICAL CONNECTIONS DIAGRAM

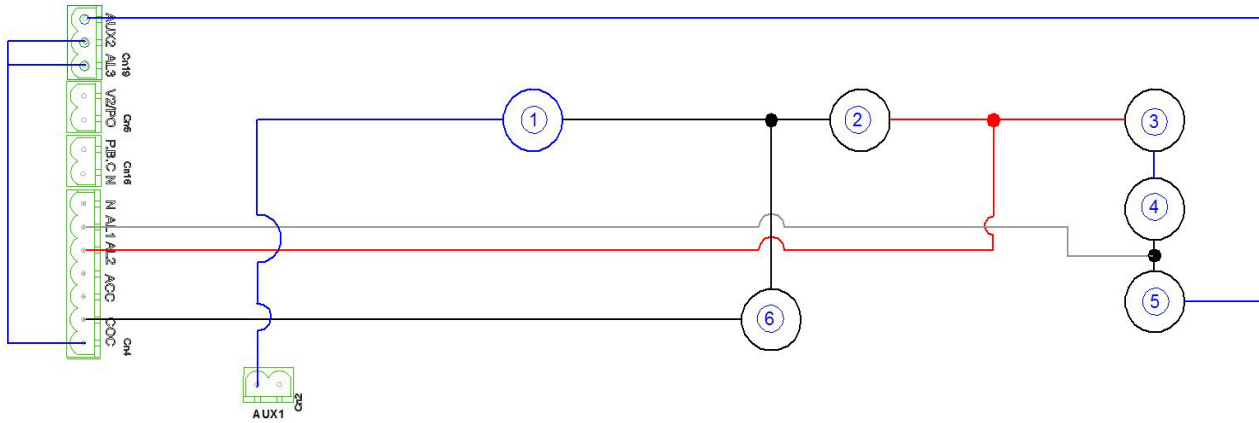
Q055 - ACS



LEGEND

		CODE
1	STOVE ELECTRONICS CONTROL UNIT	951095900
2	MANAGEMENT EXPANSION BOARD MOD.SAN. (only mod with DHW)	951067700
3	TURBULATORS CONTACT	
4	FIREBOX CLEANER CONTACT	
5	505 PRESSURE TRANSDUCER CABLE	
6	AUGER MOTOR ENCODER	
7	FUME MOTOR ENCODER	
8	STOVE PROBE	
9	ROOM PROBE	
10	EXTERNAL THERMOSTAT	
11	FUME PROBE	
12	AUGER MOTOR	
13	TURBULATORS MOTOR	
14	PUMP/CIRCULATOR	
15	DOOR/DEPRESSORS CONTACT	
16	SAFETY THERMOSTAT	
17	SPARK PLUG	
18	FUME FAN	
19	FIREBOX CLEANER MOTOR	

AUGER CONNECTION, DEPRESSORS, SAFETY THERMOSTAT, DOOR CONTACT, FIREBOX CLEANER



		NOTES
1	CLEANER MOTOR	
2	STOVE SAFETY THERMOSTAT	
3	20 PA DEPRESSOR	
4	40 PA DEPRESSOR	
5	AUGER	
6	DOOR CONTACT	

## 16. HYDRO/EV CLEANING AND ORDINARY MAINTENANCE

The stove requires simple and frequent cleaning to guarantee maximum efficiency and correct operation.

The Purchaser must regularly clean the stove by following the instructions contained in this Instruction Manual, and in particular must perform daily, weekly and monthly cleaning.

Failure to clean and/or routinely maintain the stove can cause: malfunctions, obstruction of the burn pot and pipes, poor or slow combustion, or overheating of the stove and fire in the hopper.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage to persons or property caused by the failure/incorrect cleaning and routine maintenance of the stove.

Carry out daily cleaning with a cold stove as follows:

- Aspirate the bottom of the burn pot inside the combustion chamber.

Carry out weekly cleaning with a cold stove as follows:

- Vacuum the combustion chamber, ensuring that there are no burning embers remaining. In case of burning embers the ash vacuum cleaner will catch fire;
- Remove the ash that collects inside the firebox and on the door.
- Empty the ash drawer by vacuuming it or throwing away the ash in the domestic waste
- Clean the glass with a damp cloth or with a ball of damp newspaper dipped in ash. If the operation is performed with the stove hot there is a risk of the glass exploding.
- Aspirate the ash drawer compartment and the inspection window adjacent to the same.

Carry out monthly cleaning with a cold stove as follows:

- Vacuum the T lid of the fume connection. Open the side inspection window and remove the T lid.

Caution: Only use a dry cloth to clean the stove. Do not use abrasive material or products that could corrode or bleach surfaces. At the end of the season, with the last ignition, the pellet remaining in the auger must be consumed completely. The auger must remain empty to avoid clogging due to solidified sawdust residue created by moisture.

## 17. HYDRO/EV EXTRAORDINARY MAINTENANCE

The Buyer must have the flue and flue pipe cleaned annually, before winter, by qualified technical personnel and retaining the documentation to be shown in the event of activation of the warranty.

Before performing maintenance it is advisable to turn the stove off using the power button and to remove the plug.

Cleaning must also be carried out before resuming use of the stove, as during the summer there may have been impediments to the regular flow of exhaust gases (e.g. nesting, fouling or obstruction).

The lack of extraordinary maintenance can cause: depression with poor draught and a slow flame, clogging of the burn pot and pipes, overheating of the stove and fire in the smoke pipe.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction and those resulting from people or things caused by the failure/incorrect extraordinary maintenance of the stove.

It is not uncommon, at the first cold spell and with wind for fires to ignite in the chimney due to the residue build up; some advice in the unfortunate event of this happening is:

- Block air supply to the pipe immediately;
- Use large handfuls of sand or salt, not water, to extinguish the fire;
- Keep objects and furniture away from the burning pipe.

Caution: Only use a dry cloth for cleaning the outside of the stove. At the end of the season, with the last ignition, the pellet remaining in the auger must be consumed completely. The auger must remain empty to avoid clogging due to solidified sawdust residue created by moisture.

**18. HYDRO STOVE ANOMALIES AND POSSIBLE SOLUTIONS**

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>	
<b>FIRST START-UP</b>	<b>IT MAY BE NECESSARY TO REPEAT THE FIRST LOAD PHASE A FEW TIMES TO FACILITATE THE APPLIANCE INITIAL START-UP AS THE AUGER TUBE IS COMPLETELY EMPTY AND IT MAY TAKE A SPECIFIC PERIOD OF TIME TO FILL.</b>		
<b>DISPLAY SWITCHED OFF</b>	POWER OUTAGE	CHECK PLUG AND POWER SUPPLY.	
	FAULTY ELECTRICAL CABLE	CALL TECHNICAL SUPPORT.	
	INTERRUPTED FUSE IN CONTROL BOARD	CALL TECHNICAL SUPPORT.	
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.	
	FAULTY DISPLAY	CALL TECHNICAL SUPPORT.	
<b>ALARM NO FIRE</b>	<b>PELLETS NOT FED TO BURN POT</b>	NO PELLETS	CHECK HOPPER.
		SAFETY THERMOSTAT TRIGGERED	MANUALLY RESET THE THERMOSTAT LOCATED ON STOVE BACK
		AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
		FAULTY AUGER TUBE MOTOR	CALL TECHNICAL SUPPORT.
		ACTIVE ALARM	SEE ALARM SECTION.
	<b>PELLETS FALL BUT NOT LIT</b>	DIRTY BURN POT	CLEAN BURN POT.
		TEMPERATURE TOO COLD	REPEAT SWITCHING-ON PHASE SEVERAL TIMES, EMPTYING THE BURN POT UPON EACH TIME.
		DAMP PELLETS	CHECK PELLET STORAGE LOCATION.
		FAULTY GLOW PLUG	CALL TECHNICAL SUPPORT.
		FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
		FAULTY EXHAUST BLOWER	CALL TECHNICAL SUPPORT.
		FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
	<b>STOVE SWITCHES OFF DURING NORMAL FUNCTIONING</b>	POWER OUTAGE	CHECK PLUG AND POWER SUPPLY.
		NO PELLETS	CHECK HOPPER.
		AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
POOR-QUALITY PELLETS		CHANGE PELLET TYPE.	
INSUFFICIENT PELLET SET VALUE AT MINIMUM HEAT OUTPUT		CALL TECHNICAL SUPPORT.	
ACTIVE ALARM		SEE ALARM SECTION.	
<b>POOR FLAME</b>	ANTI-EXPLOSION DEVICE PLUG MISSING OR NOT CORRECTLY POSITIONED.		
	PARTIALLY CLOGGED FLUE PIPE	CLEAN FLUE PIPE IMMEDIATELY.	
	COMBUSTION AIR NOT SUFFICIENT	CLOGGED AIR INTAKE.	
	CLOGGED STOVE	CLEAN BURN POT AND ASH DRAWER.	
	FAULTY/DIRTY EXHAUST BLOWER	GET IT CLEANED BY A SPECIALISED TECHNICIAN CALL TECHNICAL SUPPORT.	
	INADEQUATE COMBUSTION AIR SET VALUE	CALL TECHNICAL SUPPORT.	
<b>ALARM NO NETWORK</b>	POWER OUTAGE	SWITCH STOVE ON AND OFF, CHECK PLUG.	
<b>RIS/ECO</b>	SET ROOM TEMPERATURE REACHED/CORRECT OPERATION.		
<b>DISPLAY DOES NOT WORK</b>	SET ROOM TEMPERATURE REACHED	INCREASE SET ROOM TEMPERATURE SO THAT APPLIANCE GOES BACK TO "WORKING" MODE.	
<b>STOP FIRE</b>	PERIODIC CYCLE OF BURN POT CLEANING	CORRECT OPERATION.	
<b>ALARM DEP</b>	EXCESSIVE OR INADEQUATE FLUE PIPE LENGTH	NON-COMPLIANT VENT PIPE.	
	CLOGGED OUTLET	CLEAN FLUE PIPE/CALL AUTHORISED TECHNICIAN.	
	BAD WEATHER CONDITIONS	STRONG WIND.	

<b>ALARM SIC FIREBOX OVERHEATING</b>	STOVE TEMPERATURE TOO HIGH	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. IF THE PROBLEM REMAINS UNSOLVED, CONTACT A SPECIALISED TECHNICIAN.
	TEMPORARY POWER OUTAGE	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. SWITCH STOVE ON AGAIN.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL SUPPORT.
	FAULTY THERMOSTAT WITH RESET	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
<b>FUME SENSOR ALARM</b>	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	FUME SENSOR DISCONNECTED	CALL TECHNICAL SUPPORT.
<b>ALARM HOT TEMP</b>	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL SUPPORT.
	EXCESSIVE PELLET SET VALUE AT MAXIMUM HEAT OUTPUT	CALL TECHNICAL SUPPORT.
<b>RADIOEMOTE CONTROL NOT CONNECTING (FIELD SEARCH)</b>	POSSIBLE INTERFERENCE	TRY DISCONNECTING FROM THE MAINS SUPPLY ANY HOUSEHOLD APPLIANCE OR ANY OTHER APPLIANCE THAT MAY GENERATE ELECTROMAGNETIC FIELDS.
<b>REMOTE CONTROL DOES NOT SWITCH ON</b>	DISPLAY SWITCHED OFF	CHECK BATTERY/FAULTY REMOTE CONTROL.



**19. EV STOVES ANOMALIES AND POSSIBLE SOLUTIONS**

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>	
<b>FIRST START-UP</b>	<b>IT MAY BE NECESSARY TO REPEAT THE FIRST LOAD PHASE A FEW TIMES TO FACILITATE THE APPLIANCE INITIAL START-UP AS THE AUGER TUBE IS COMPLETELY EMPTY AND IT MAY TAKE A SPECIFIC PERIOD OF TIME TO FILL.</b>		
<b>WATER SENSOR ALARM</b>	WATER SENSOR FAULT	CALL TECHNICAL SUPPORT.	
<b>HOT WATER ALARM</b>	MAXIMUM WATER THRESHOLD EXCEEDED	WAIT UNTIL THE STOVE COOLS.	
<b>WATER PRESS ALARM</b>	HIGH OR LOW SYSTEM PRESSURE, AIR IN THE CIRCUIT	LOAD THE HYDRAULIC SYSTEM OR EMPTY IT.	
<b>AUGER TUBE TRIAC ALARM</b>	THE AUGER TUBE MOTOR TURNS CONTINUOUSLY	ONCE THE PRODUCT HAS COOLED UNPLUG THE POWER SUPPLY AND CONTACT TECHNICAL ASSISTANCE.	
<b>AUGER TUBE ENCODER ALARM</b>	FAULTY AUGER TUBE MOTOR	CALL TECHNICAL SUPPORT.	
<b>DISPLAY SWITCHED OFF</b>	POWER OUTAGE	CHECK PLUG AND POWER SUPPLY.	
	FAULTY ELECTRICAL CABLE	CALL TECHNICAL SUPPORT.	
	INTERRUPTED FUSE IN CONTROL BOARD	CALL TECHNICAL SUPPORT.	
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.	
	FAULTY DISPLAY	CALL TECHNICAL SUPPORT.	
<b>ALARM NO FIRE</b>	<b>PELLETS NOT FED TO BURN POT</b>	NO PELLETS	CHECK HOPPER.
		SAFETY THERMOSTAT TRIGGERED	MANUALLY RESET THE THERMOSTAT LOCATED ON STOVE BACK
		AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
		FAULTY AUGER TUBE MOTOR	CALL TECHNICAL SUPPORT.
		ACTIVE ALARM	SEE ALARM SECTION.
	<b>PELLETS FALL BUT NOT LIT</b>	DIRTY BURN POT	CLEAN BURN POT.
		TEMPERATURE TOO COLD	REPEAT SWITCHING-ON PHASE SEVERAL TIMES, EMPTYING THE BURN POT UPON EACH TIME.
		DAMP PELLETS	CHECK PELLET STORAGE LOCATION.
		FAULTY GLOW PLUG	CALL TECHNICAL SUPPORT.
		FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	<b>STOVE SWITCHES OFF DURING NORMAL FUNCTIONING</b>	FAULTY EXHAUST BLOWER	CALL TECHNICAL SUPPORT.
		FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
		POWER OUTAGE	CHECK PLUG AND POWER SUPPLY.
		NO PELLETS	CHECK HOPPER.
		AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
		POOR-QUALITY PELLETS	CHANGE PELLET TYPE.
		INSUFFICIENT PELLET SET VALUE AT MINIMUM HEAT OUTPUT	CALL TECHNICAL SUPPORT.
		ACTIVE ALARM	SEE ALARM SECTION.
<b>POOR FLAME</b>	ANTI-EXPLOSION DEVICE PLUG MISSING OR NOT CORRECTLY POSITIONED.		
	PARTIALLY CLOGGED FLUE PIPE	CLEAN FLUE PIPE IMMEDIATELY.	
	COMBUSTION AIR NOT SUFFICIENT	CLOGGED AIR INTAKE.	
	CLOGGED STOVE	CLEAN BURN POT AND ASH DRAWER.	
	FAULTY/DIRTY EXHAUST BLOWER	GET IT CLEANED BY A SPECIALISED TECHNICIAN CALL TECHNICAL SUPPORT.	
	INADEQUATE COMBUSTION AIR SET VALUE	CALL TECHNICAL SUPPORT.	
<b>POWER OUTAGE ALARM</b>	POWER OUTAGE	SWITCH STOVE ON AND OFF, CHECK PLUG.	

<b>MODULATE</b>	SET ROOM TEMPERATURE REACHED/CORRECT OPERATION.
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<b>DISPLAY DOES NOT WORK</b>	SET ROOM TEMPERATURE REACHED	INCREASE SET ROOM TEMPERATURE SO THAT APPLIANCE GOES BACK TO "WORKING" MODE.
<b>BURN POT CLEANING</b>	PERIODIC CYCLE OF BURN POT CLEANING	CORRECT OPERATION.
<b>ALARM DEP</b>	EXCESSIVE OR INADEQUATE FLUE PIPE LENGTH	NON-COMPLIANT VENT PIPE.
	CLOGGED OUTLET	CLEAN FLUE PIPE/CALL AUTHORISED TECHNICIAN.
	BAD WEATHER CONDITIONS	STRONG WIND.
	FUME FAN BLOCKED	ASPIRATE ASHES, CALL TECHNICAL ASSISTANCE.

<b>ALARM SIC FIREBOX OVERHEATING</b>	STOVE TEMPERATURE TOO HIGH	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. IF THE PROBLEM REMAINS UNSOLVED, CONTACT A SPECIALISED TECHNICIAN.
	TEMPORARY POWER OUTAGE	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. SWITCH STOVE ON AGAIN.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL SUPPORT.
	FAULTY THERMOSTAT WITH RESET	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
<b>FUME SENSOR ALARM</b>	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	FUME SENSOR DISCONNECTED	CALL TECHNICAL SUPPORT.
<b>HOT FUME ALARM</b>	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
	EXCESSIVE PELLET SET VALUE AT MAXIMUM HEAT OUTPUT	CALL TECHNICAL SUPPORT.
<b>RADIOCEMOTE CONTROL NOT CONNECTING (FIELD SEARCH)</b>	POSSIBLE INTERFERENCE	TRY DISCONNECTING FROM THE MAINS SUPPLY ANY HOUSEHOLD APPLIANCE OR ANY OTHER APPLIANCE THAT MAY GENERATE ELECTROMAGNETIC FIELDS.
<b>REMOTE CONTROL DOES NOT SWITCH ON</b>	DISPLAY SWITCHED OFF	CHECK BATTERY/FAULTY REMOTE CONTROL.

Date 1st maintenance \_\_\_\_\_ / \_\_\_\_\_ /

(Technical Assistance Centre stamp)

Date 2nd maintenance \_\_\_\_\_ / \_\_\_\_\_ /

(Technical Assistance Centre stamp)

Date 3rd maintenance \_\_\_\_\_ / \_\_\_\_\_ /

(Technical Assistance Centre stamp)

## CERTIFICATE OF INSTALLATION AND TESTING

CUSTOMER: \_\_\_\_\_

Dealer Stamp:

STREET/ROAD:

\_\_\_\_\_

CITY: \_\_\_\_\_

Installer stamp:

POSTAL CODE: \_\_\_\_\_

PROVINCE: \_\_\_\_\_

TEL: \_\_\_\_\_

First name: \_\_\_\_\_

Delivery date: \_\_\_\_\_

Last Name: \_\_\_\_\_

Delivery date: \_\_\_\_\_

Address: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Equipment mod.: \_\_\_\_\_

Location: \_\_\_\_\_

Serial number: \_\_\_\_\_ Year: \_\_\_\_\_

Tel.: \_\_\_\_\_

The customer acknowledges that, upon completion of the installation of the device, the works were carried out professionally and in accordance with the instructions in this user manual. The same also states that they acknowledge perfect functioning and are aware of the information needed to correctly use, operate and perform maintenance on the appliance.

CUSTOMER Signature    DEALER/INSTALLER Signature

**Warranty**

Eva Stampaggi S.r.l. guarantees that the stove is built in accordance with EN 13240 (wood-burning stoves) EN 14785 (pellet stoves) and EN 12815 (wood-burning stoves) and uses quality and non-polluting materials.

Eva Stampaggi S.r.l. guarantees that the stove is free from defects that make it unsuitable for its intended use or significantly reduce its value. The rules of the Italian Civil Code or applicable national law governing the guarantee in the sales contract, or applicable national law ex D. Int.

Any non-compliance may be upheld with the warranties and procedures provided for in Legislative Decree 206/2005, provided that the purchaser was aware of the defect, or was not able to ignore it with ordinary due diligence, or if the non-compliance derives from instructions or materials supplied by the same.

The warranty excludes malfunctions, defects and/or faults and consequent damages, resulting from property and/or persons, attributable to an abnormal and/or improper use of the product and/or not in compliance with safety regulations and/or the "Hydro stoves instruction manual", or resulting from an installation that does not comply (to which the absence of documents certifying such compliance is also equated) with current regulations and safety directives, or performed by unqualified personnel (UNI10683 and UNIEN 1443), or when, by way of example, there is a direct discharge to the wall.

Similarly, any lack of conformity that should be randomly ascribed to use or installation of the product that does not comply with the applicable laws and regulations and/or the instructions contained in this "Instruction Manual" will not be covered by the warranty.

The aforementioned warranty is also excluded for defects in conformity, malfunction, defects and/or faults and the consequent damage, caused to property and/or persons, resulting from the use of the stove in a manner that does not comply with safety directives.

The warranty for malfunction, defects and/or defects and/or faults does not work and Eva Stampaggi S.r.l. assumes no responsibility for damages caused to property or persons resulting from: the lack of first ignition carried out by a specialised technician, to which the absence of such documents, proving said operation, is equated; from the violation and/or non-compliance with the provisions of this Instruction Manual; from the tampering and/or alteration of the stove and its electrical board; from the non-compliance with lights and alarms; from the failure to clean and routine maintenance; from the failure to clean and extraordinary maintenance carried out by specialised technical personnel, to which the absence of documents proving said maintenance is equated; from the improper use of the stove; from the lack of installation requirements; from the non-compliance with the procedures for reporting conformity defects provided for in Legislative Decree no. 206/2005; from the use of unsuitable or poor-quality fuel; from modifications and/or repairs carried out without prior notification and corresponding authorisation by Eva Stampaggi S.r.l.; from the use of non-original and/or non-specific spare parts for the stove.

The above list must be considered non-exhaustive and therefore the cases not expressly indicated but which, by virtue of analogical interpretation, can be equated with the cases listed must also be considered included among the cases of exclusion of the guarantee.

All the following differences related to the natural characteristics of the coating materials are excluded from the warranty: the grains of the stones that are the main characteristic and that guarantee their uniqueness; any small cracks or cracks that could be highlighted in ceramic/majolica coatings; any differences in shades and shades on ceramic/majolica coatings; door glass; gaskets; masonry works.

Eva Stampaggi S.r.l. assumes no responsibility for: damage to chrome finished and/or anodised metal parts and/or painted or otherwise with treated surfaces, whether due to rubbing or impact with other metals; damage to chrome finished and/or anodised metal parts and/or painted or with treated surfaces, whether due to improper maintenance and/or cleaning with products or chemical agents (said parts must be cleaned using only water); damage to mechanical components and mechanical parts due to improper use or installation by non-specialist personnel or for installation not in compliance with the instructions contained in the packaging; damage to electrical or electronic components and parts due to improper use or installation by non-authorized personnel or for installation not in compliance with the instructions contained in the packaging.

Ignition resistors are material subject to wear and tear, the duration of which depends on the use of the stove; the relative warranty is therefore limited to the first 6 months of use of the product.

Warning: after purchase, keep the warranty certificate together with the original packaging of the product, the installation and testing certificate and the receipt issued by the seller. The date of the sales tax document will determine the actual duration of the warranty.

The warranty provided shall be subject to the following terms and conditions:

The after-sales service is managed by our staff who may be contacted on 0438 35469 or by e-mail at [assistenza@evacolor.it](mailto:assistenza@evacolor.it)

Our qualified staff will provide you with information concerning technical, installation or maintenance problems.

Should it not prove possible to solve the issue over the phone, our staff will forward it to the Technical Support Service closest to you, which will guarantee support by a technician within 5 working days.

Parts replaced during the warranty period will be guaranteed during the remaining warranty period of the product purchased.

The manufacturer shall not pay the customer any indemnities for the inconvenience of not being able to use the product during the period required for repairing.

Should it be necessary to replace the product, the manufacturer will deliver it to the dealer who will then deliver it to the end user following the same procedure as for the product purchase.

This guarantee is valid within Italy; in the event of sale or installation carried out elsewhere, the guarantee must be recognised by the distributor in that territory.

The warranty is carried out with the repair or replacement of defective parts, or the entire item, at the discretion of the company.

When requesting assistance, you must have the following to hand:

- Serial number
- Stove model
- Purchase date
- Purchase location
- Warranty goodwill certificate completed by specialised C.A.T.

**Eva Stampaggi S.r.l.**  
**Via Cal Longa Z.I.**  
**I - 31028 Vazzola (Treviso - Italy)**  
**Tel. +39.0438.740433 rollover lines**  
**Fax +39.0438.740821**  
**Email: [info@evacolor.it](mailto:info@evacolor.it)**

**Dealer Stamp and Signature**





Eva Stampaggi S.r.l.  
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Tel: +39 0438 740433  
Fax: +39 0438 740821

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