



PV 250a & PV250aL pellet burner

User manual

DK9103A1

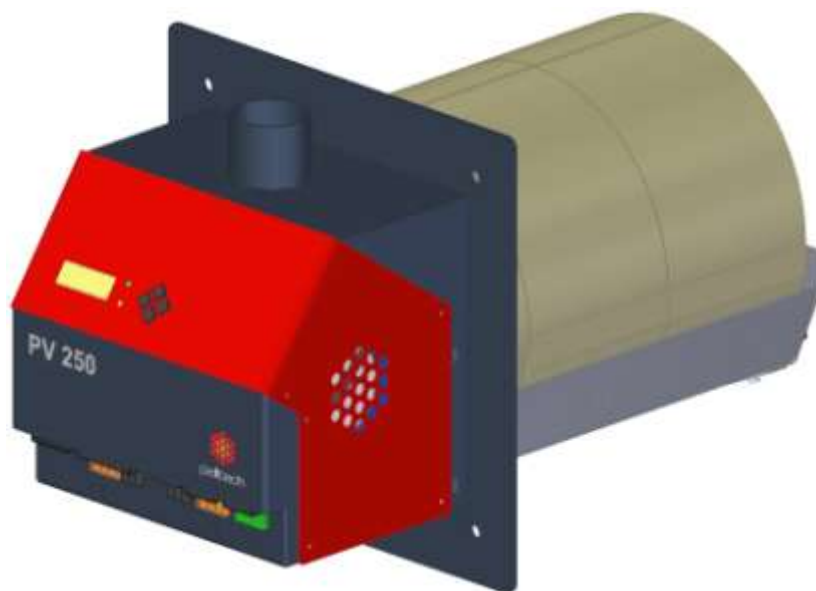


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Safety precautions


- Do not start the burner before it is connected to the boiler and the boiler is connected to the chimney.
- It is recommended to wear a respirator while handling pellets.
- The boiler room where the burner is installed must fulfil all rules and recommendations given by authorities.
- All electrical connections must be done by trained professionals.
- No flammable materials must be stored near the burner.

Warnings

- Changing the construction of the burner without written permission from the manufacturer is forbidden.
- Use only spare parts provided or approved by the manufacturer in order to avoid any damage to the burner and dangers resulting from it
- Welding is allowed only after disconnecting the burner from electric supply. The circuit board must be removed from the burner.
- Do not open any boiler door while the burner is in operation.

Notice

- Manufacturer of burner has right to make changes in construction of burner and its firmware.

Pellet burner PV 250a/aL		No
Year of production	2018	
Electrical supply	230V	
Max heat input	250kW	
Emission class	5	
Noise emission	63dB	
Power consumption at stand-by	7 W	
Manufacturer: Pelltech OÜ, Sära tee 3, Peetri, Estonia		



DECLARATION OF CONFORMITY

We, Pelltech OÜ
Sära tee 3, 75312 Peetri, Estonia
www.pelltech.eu

Declares under sole responsibility that the machinery described as

Pellet burner, Type PV250a/PV250aL

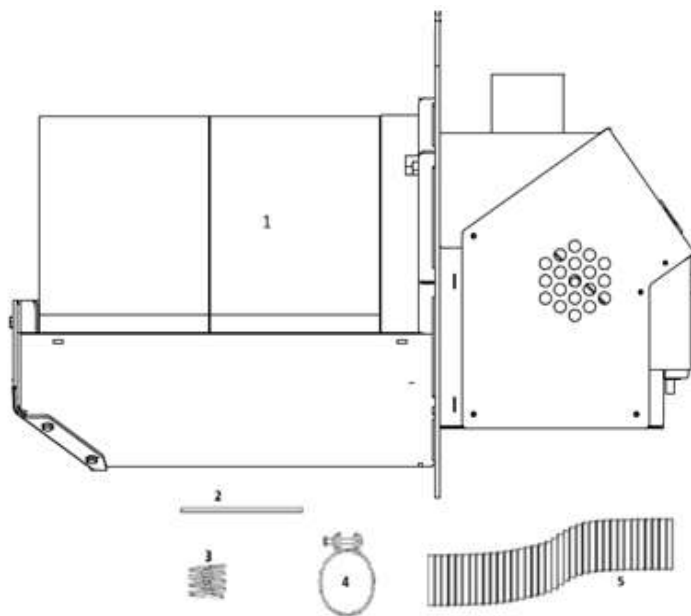
to which this certificate applies, is in conformity with the standards or other applicable rules and regulations as mentioned below.

Conformity with the stipulations of:
EVS/EN 15270/2008 - pellet burners,
EN 230 2005
EN 60370-2-5 2002
Directive 2004/108/EC
Directive 2006/95/EC
Directive 2006/42/EC

Tallinn 15.03.2018

Aavo Isak, CEO, member of board

1 Set of components



1. Burner with burning chamber
2. 6mm metal underpressure tube
3. Under pressure hose
4. Bracket 2 pcs
5. Hose with diameter of $\varnothing 76\text{mm}$

2 General description

PV 250a is a burner of wooden pellets (sawdust granules) that is intended for heating of the industrial and public buildings. Only 6 or 8mm wooden pellets can be used to run this burner. You cannot use any other form of fuel. Unique design of the burning chamber allows using industrial pellets run the burner. The construction allows burner to be used with different boilers: liquid fuel, solid fuel and universal boilers. The burner is connected to the boiler by using a connection plate.

The burner is equipped with a safety thermostat, a melting hose, temperature sensor and auxiliary battery for protection against back-burning. Main technical data are given in Table 1 and Figure 1 .

Main difference between PV250a and PV250aL burners is the burning chamber height. See below marked in red. L – in burners name stands for Low in height.

Table 1 Technical data of burner

Parameter	Unit	PV 250a	PV250aL
L total length	mm	734	734
L1 housing length	mm	270,1	270,1
L2 burning chamber length	mm	458,7	458,7
H1 housing height	mm	313,6	313,6
H2 burning chamber height	mm	388,1	328,3
W1 burning chamber with	mm	358,7	358,7
Maximum fuel consumption	Kg/	55	55
Maximum amount of	M ³ /	750	750
Mass(neto)	kg	80	80
Nominal power	kW	250	250
Minimum power	kW	70	70
Noise level	dB	58	58
Emission class (EN 15270)	-	5	5
Operating temperature	°C	0 - 60	0 - 60
Supply voltage	VAC	220-240	220-240
El power at ignition	W	400	400
El power, average	W	40	40
El power at standby	W	7	7

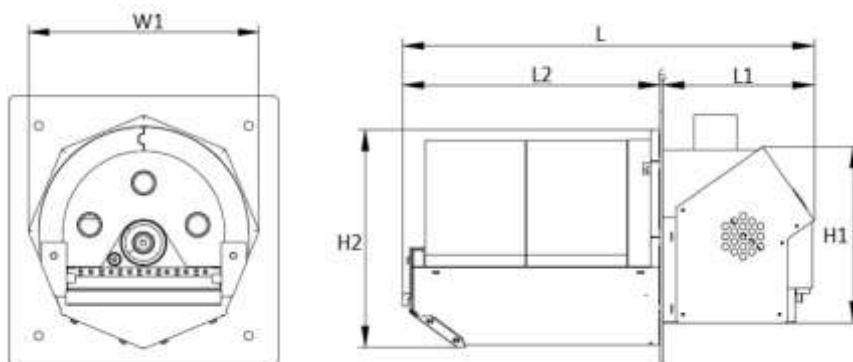
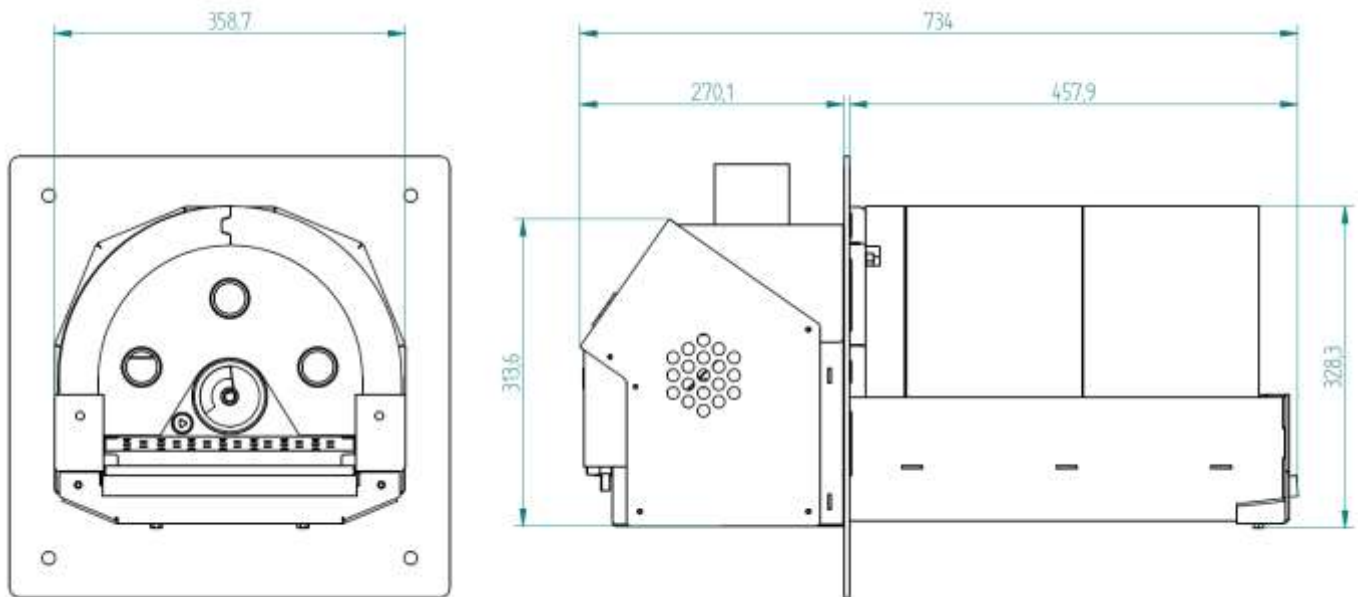
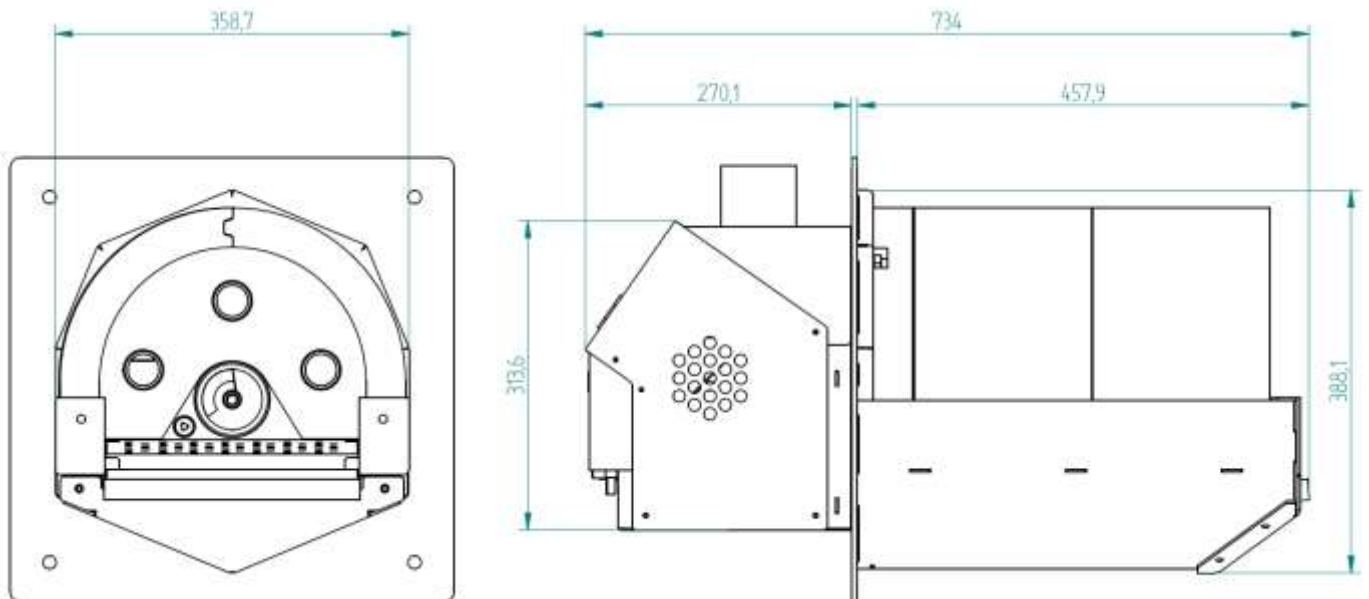


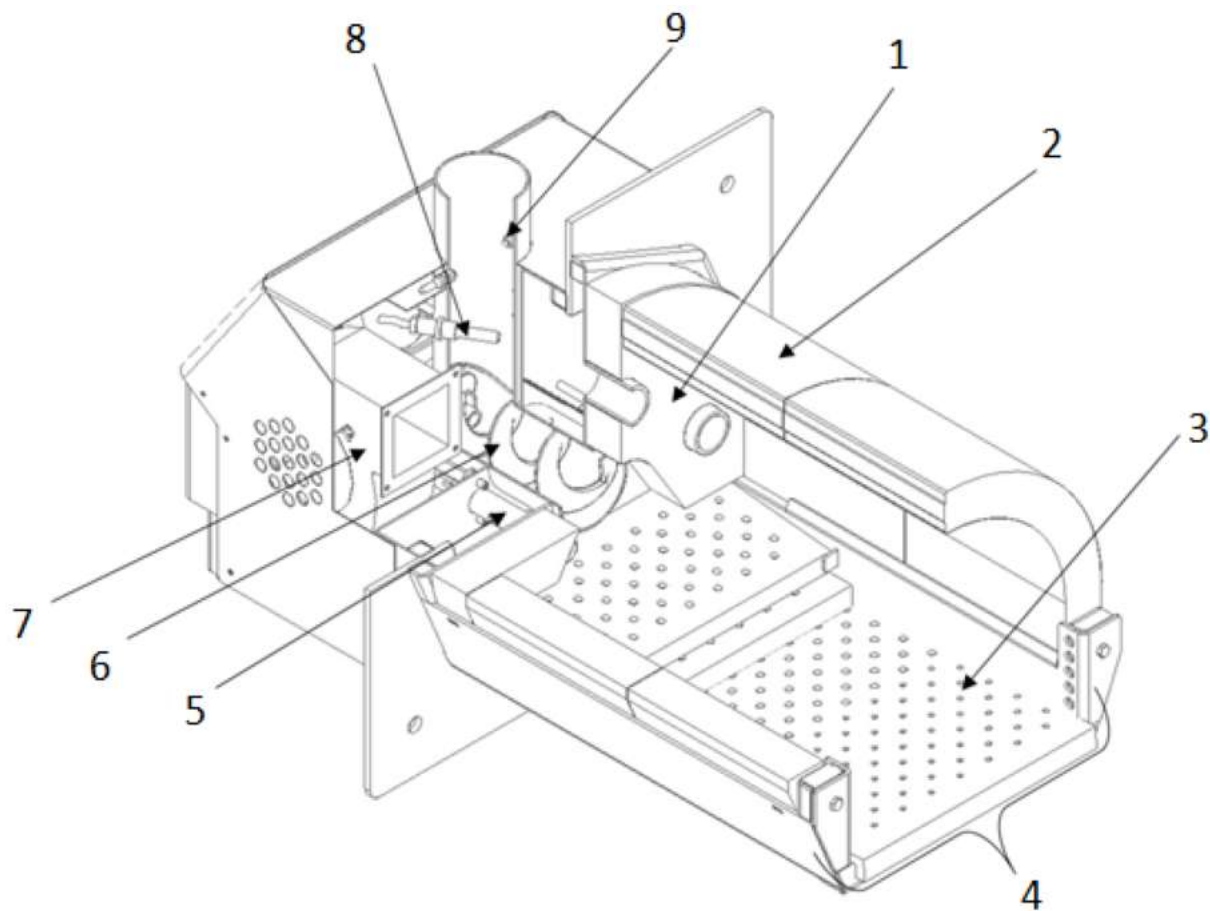
Figure 1 Main measurements of burner

PV250aL



PV250a





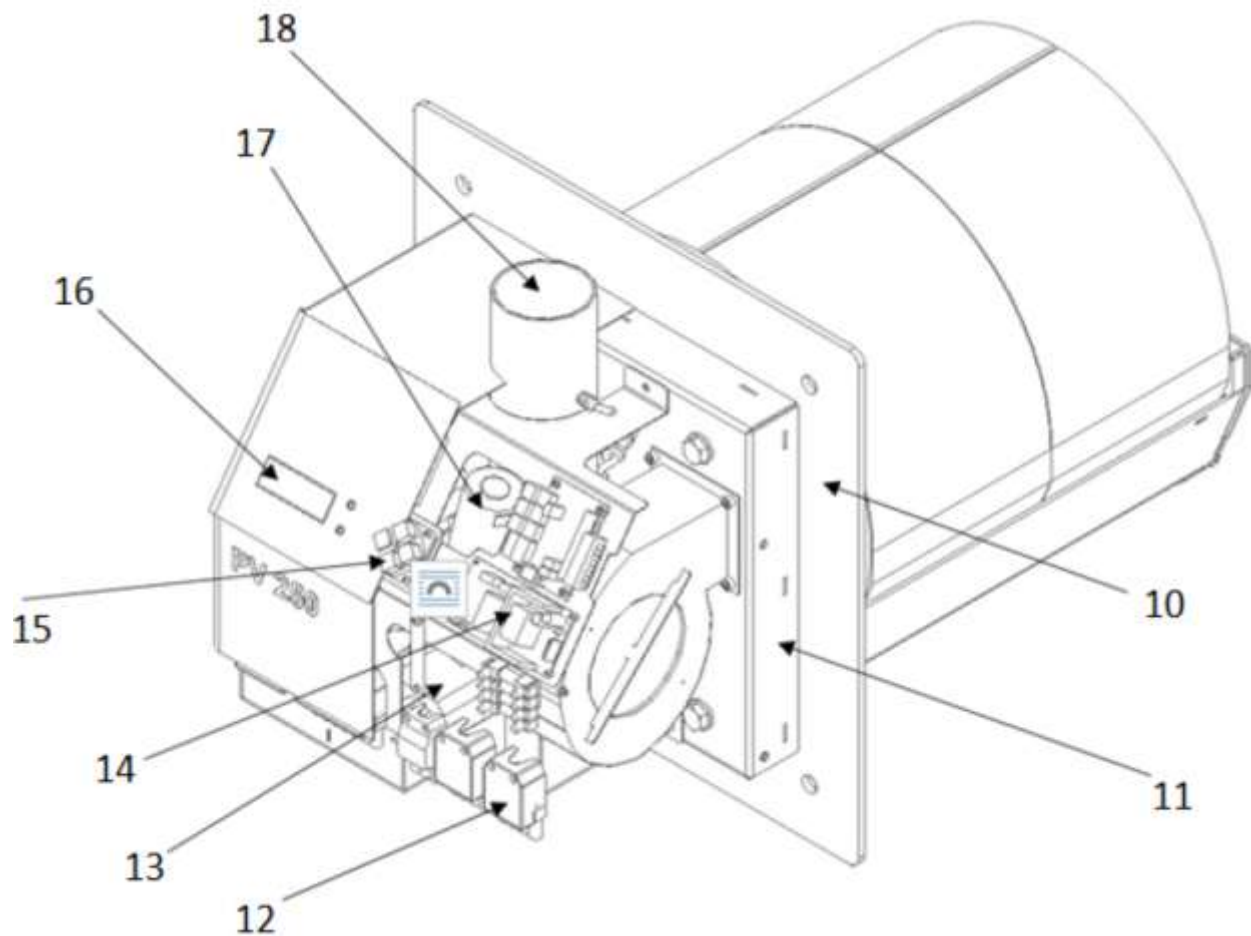


Table 2 List of main components

	Name	Description
1	Back wall ceramic tile	To cover back side of burning chamber.
2	Arc and side ceramic tiles 6pcs	To cover the sides and top of burning chamber.
3	Grates 3pcs	Moving grates to remove ash from the burning chamber. 2 grates with smaller hole are placed before 3 grates with bigger holes.
4	Burning chamber	Place of gasification and burning of pellets.
5	Ceramic igniter	Electrical heating element to ignite pellets.
6	Internal feeder	Transports pellets to the burning chamber. The feeder is connected to feeder motor with little slack. It prolongs motor and feeder lifetime. Do not over tighten the feeder connection.
7	Fan	Blows burning air into burning chamber according to burner's actual

		power.
8	Flame sensor	Optical sensor (photocell) to detect flame in burning chamber.
9	Fuel level sensor	Optical sensor, which signal starts external auger. Sensor consists of sender – receiver pair.
10	Fixating flange	To adapt fixation of burning chamber to boiler's door.
11	Air box	To control air input and fixate burner to boiler's door.
12	Burner's sockets	To internal and external electrical connections.
13	Linear motor (actuator)	Moves grates in order to remove ash from burning chamber.
14	Controller board and Power supply	Controls the functioning of the burner. Supplies burner with 12V
15	User interface	Enable to navigate in burner menus and change parameter values.
16	User interface screen	2-row LCD screen to move in menus, set up and change parameter values.
17	Feeder motor	Rotates internal feed screw. The feeder is connected to feeder motor with little slack in order to avoid the auger get stuck.
18	Burners input tube	To be connected via hose with external auger. Supplies burner with pellets.

Power levels

Power level	Level type	PV 250	Primary fan	Secondary fan
1	main	70	Par 1	Par 31
2	virtual	90	-	-
3	main	100	Par 2	Par 32
4	virtual	120	-	-
5	main	130	Par 3	Par 33
6	virtual	150	-	-
7	main	170	Par 4	Par 34
8	virtual	190	-	-
9	main	210	Par 5	Par 35
10	virtual	230	-	-
11	main	250	Par 6	Par 36

2.1 Safety devices

The back-burning is the biggest danger risk at burners working procedure. Back-burning appears when usual pressure or draught conditions have changed in boiler's combustion chamber. There are several reasons for such changes.

In order to secure operational and fire safety the burner PV 250a is equipped with following safety devices:

1.Melting hose

To avoid the reaching of fire during back-burning to external auger, a melting hose is put between external auger and pellet burner. The hose will melt when air temperature inside reaches 100°C.

2.Temperature sensor

A temperature sensor is mounted on burners input tube. If the burner is not regularly cleaned, part of burning gases start to move through fuel line. The sensor detects temperature rise in fuel line and shuts down the burner. This safety device is not meant to replace regular cleaning by the user.

3.Controller

Software supervision made by controller monitors continuously all inputs and outputs and shuts down the operation of burner in case of abnormal condition occurs. Controller has watchdog timer to reset the controller in case program lock up. It also has a brown-out detection and reset circuit to reset the controller when power supply voltage falls below threshold. Burner makes self-testing after applying power by measuring:

- Existence of feeder auger motor current (motor is turned on for a moment)
- Existence of speed signal from fan (fan is turned on for a moment)
- Voltage level on backup battery is > 12V when loaded with feeder auger motor

or displays last error state.

To ensure there are no explosive gases inside the boiler, the fan is ran for short duration before loading/ignition starts.

4.Backup battery

If mains supply is lost, the burner runs on backup battery power and feeder auger transports pellets from feeder's tube to the burning chamber for final burning. Fan rotation and all other functionalities are stopped. Burning ends with help of natural draught. Battery voltage is checked at startup and continuously monitored during the operation.

5.Safety thermostat

In case back-burning has reached into feeder auger, safety thermostat cuts mains power off and feeder auger is unloaded by using battery power. Thermostat acts at 65°C and must be reset manually.

2.2 Pellets

Wooden pellets or saw dust granules are concentrated and homogenized wooden fuel made from sawdust and cutter shavings. Pellets are pressed with high temperature. No extra materials are added, pellets are held together by a natural ingredient found in wood – lignin. Pellets are neutral, renewable fuel. Its burning doesn't spoil CO₂ balance in the atmosphere. Not only premium but also the industrial

pellets can be used in PV 250a. Pellets must be stored in a dry and ventilated room. Some key data for industrial and premium wooden pellets is in Table 3.

Table 3 Pellets' key data

	Premium pellets	Industrial pellets
Raw material	Stem wood, wood processing industry residues	+ whole trees, bark, logging residues
Calorific value	4700-5100 kWh/ton	ca 4700 kWh/ton
Volume weight	ca 650-670 kg/m ³	>675 kg/ m ³
Volume of 1 ton pellets	1.5-1.6 m ³	ca 1.5 m ³
Diameter	6-10 mm	6-12 mm
Length	3-5 x diameter	ca 4mm
Water content	8-10 %	ca 5 %
Ash content	ca 0,5%	ca 2%
To replace 1000 l light oil	ca 2 tons or 3 m ³	ca 2 tons or 3 m ³

3 Installation

3.1 Prerequisites

In order to install the burner, the boiler must meet the following requirements:

- It is recommended to use three pass boilers.
- The construction of the boiler must make it possible to open the door of the boiler with the burner connected and removing ash from the furnace. If the door of the boiler is too narrow for opening it together with the burner, then extra hinges must be mounted.
- The boiler should be positioned in a way that there is enough space for cleaning the burner, the boiler, the smoke pipe and removing the ash.
- The burning chamber must not touch the bottom of the boilers furnace (min 10cm distance needed).
- To ensure negative pressure in the furnace, a flue gas fan must be installed.
- Boiler room must provide constant air supply of 500 m³ per hour (ca. 400 cm² air inlet opening).
- The boiler room where the burner will be installed must fulfil all rules and recommendations given by local authorities.

In order to install the burner to the boiler door, there must be mounting holes as shown below.

Note: If the burner is installed to the boiler, the door or the installation flange's thickness should be 8-14mm.

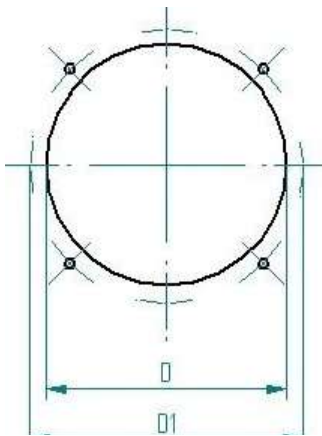


Figure 3 Boiler door mounting opening

Table 4 Measurements of openings

Dimension	Unit	Value
ØD hole for burning chamber neck	mm	290
ØD1 flange bolt ring diameter	mm	330
ØD2 bolt holes	mm	4 x 13
Bolt hole offset angle	deg	-
Angle between bolt holes	deg	90

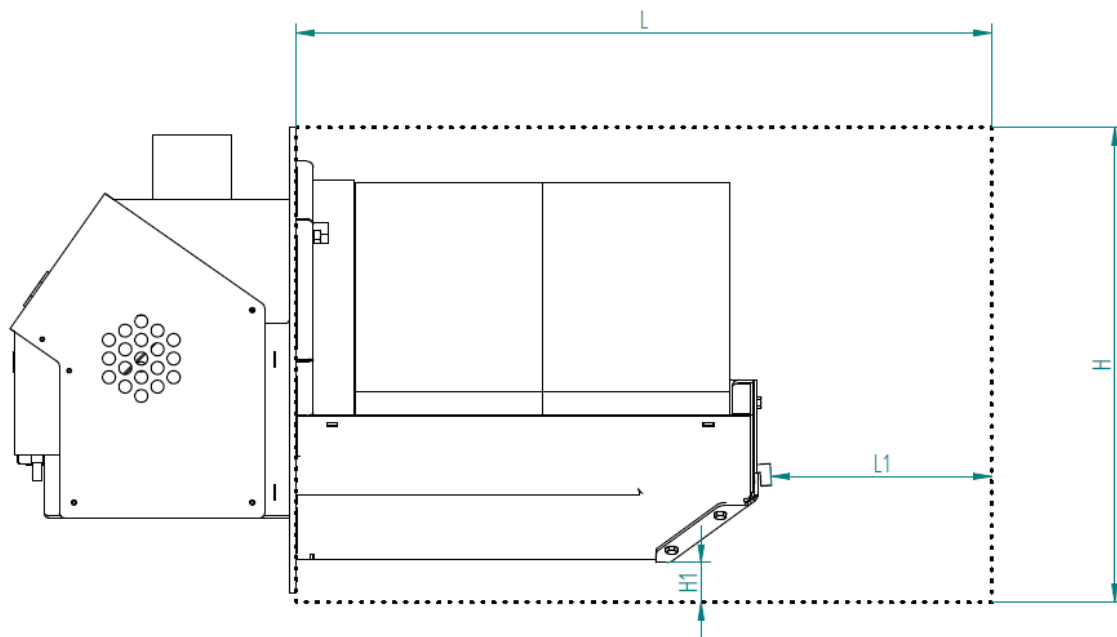


Figure 4 Firebox depth

Boiler firebox depth L (Figure 4) must be at least 2 times longer than the burner's burning chamber. The minimal length of the firebox L has to be 1200 mm. The height of firebox must leave at least 100 mm (H1) for ash below burning chamber. Minimum dimensions: $L1 \geq 700\text{mm}$; $H \geq 450\text{mm}$.

Pellet burners need regular cleaning and therefore boiler construction must allow easy opening of boiler's door without removing the burner. The minimum size of opening in boiler's door depends on the position of door hinges. Figure 5 below illustrates the situation. Point C is critical point. In order to keep door width minimum and boiler's door opening small, a double hinge solution can be used. As double hinges add another degree of moving-freedom, door must be fastened on both sides. Slide-out doors with guide rails is also an option.

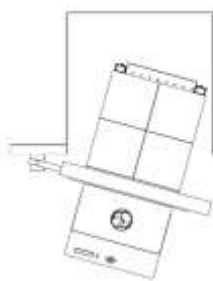
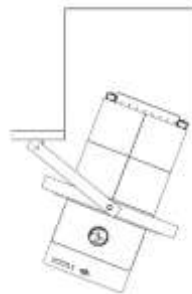


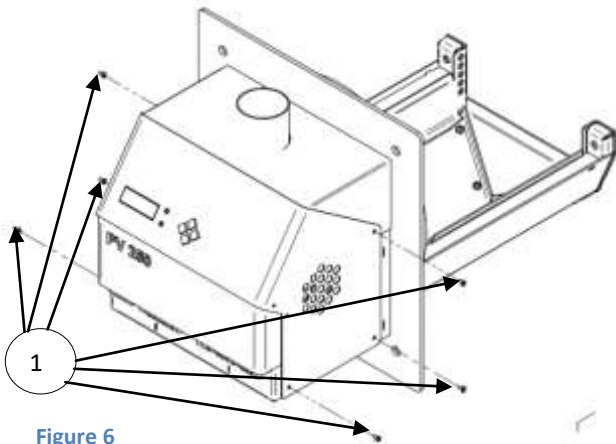
Figure 5 Burner has to come off from boiler



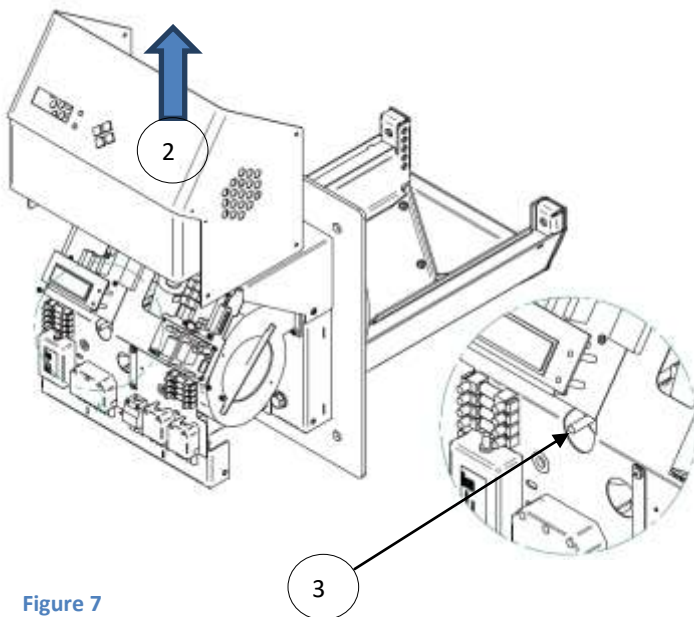
Double hinges

3.2 Burner installation

Burner is delivered to customer in fully put together. Before mounting the burner to boiler it has to be disassembled i.e. bricks have to be removed and burning chamber separated from burner and air box.

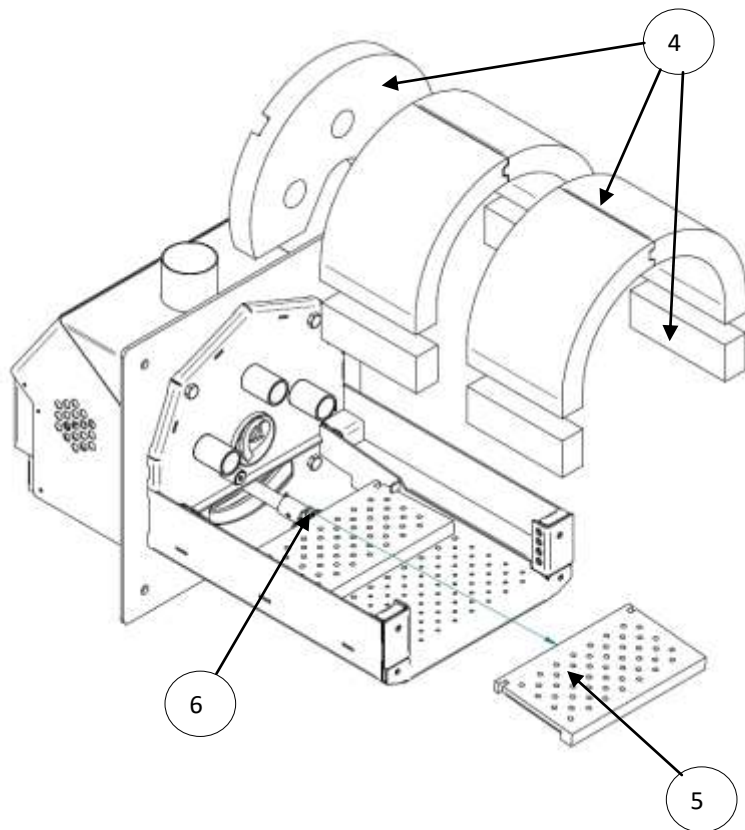


NR.1 Remove 6 screws from the burners cover



NR.2 Raise up the covers. NB! Buttons wire is connected to the cover.

NR.3 Unscrew the underpressure tube from the burner. It attaches to the grooves in the burning chamber.



NR.4 Remove the ceramic tiles

NR.5 Remove the back grate

NR.6 Unscrew the bolt that is securing the other grates in place

Figure 8

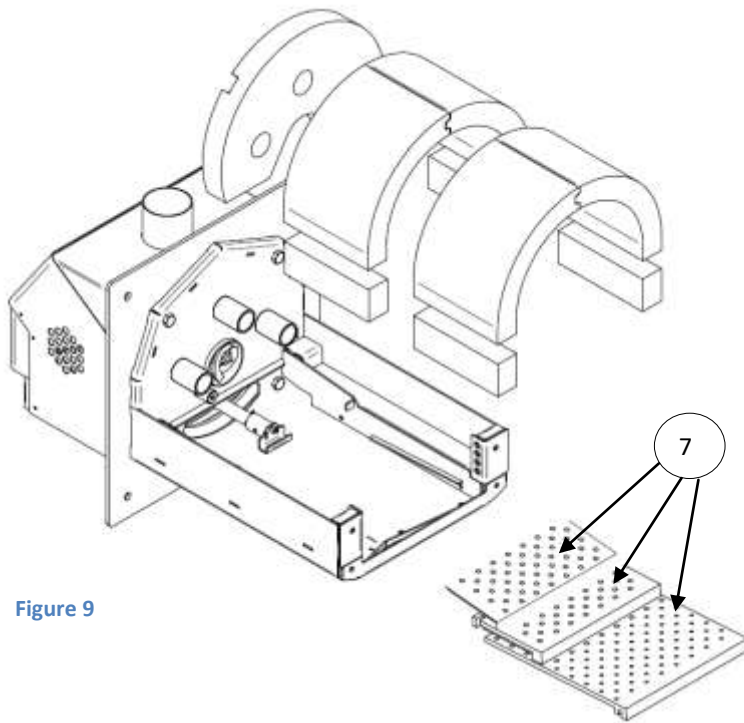


Figure 9

NR.7 Remove all the grates from the burning chamber

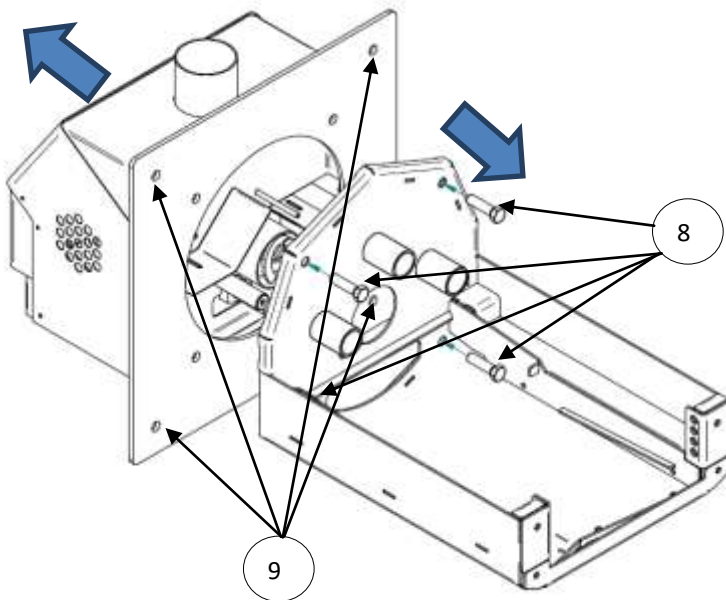


Figure 10

NR.8 Unscrew 4 bolts and remove the burning chamber

After the burning chamber has been removed the outer part of the burner can also be separated by lifting and pulling it from the fixating flange.

NR.9 If the fixating flange is needed for mounting the burner in front of the burner. Secure the flange with 4 bolts.

3.3 External auger

The external auger transports pellets from the pellet container to the burner. The auger is controlled by burner. The auger is connected to the burner with a special hose (\varnothing 76mm), which is made from easily melting polyurethane material that melts when back-burning takes place. The hose acts as a safety measure against back-burning. PV 250a pellet burner's fuel consumption at full power is about 77 - 80 kg of pellets per hour (1,3 kg per minute). External auger's productivity must be at least 120kg of pellets per hour. The auger can be fixed to the storage or a ceiling depending on the conditions at the installation site.

Requirements for auger installation:

- The raising angle of the external auger must not exceed 45° .
- The end of the exit tube of the auger and the input of the burner must not be aligned. The recommended minimal horizontal distance is 20cm.
- The distance between the input of the burner and the exit tube of the external auger must be at least 60cm vertically – recommended distance is 80-200cm.
- Hose between auger and burner must be strait and stressed and not be bended thru, otherwise pellets may block the auger and interrupt burner's normal work. Falling angle must be between 65° and 85° .

All critical requirements to installation of external auger are depicted in Figure 10.

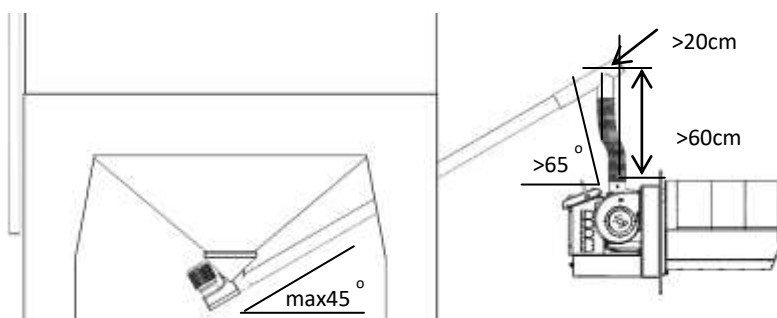


Figure 10 External auger installation

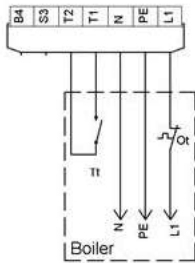
3.4 Pellet storage

Pellets must be stored in a dry and ventilated room that is separated from the boiler room. A tailor made silo for particular storage is recommended. All safety regulation must be taken into consideration according to the local laws. It is recommended to wear a respirator when handling pellets. Refilling must be carried out before the storage runs empty.

3.5 Electrical connections

Following connections must be done by the electrical installer:

- 1-phase supply and boiler's thermostat to socket X11 Figure 11.
- External auger to socket X14



The burner is equipped with a standard oil burner plug that has 7 contacts. Usually the burner is connected to the boiler with a 5-wire cable according to Figure 11.

Figure 11 Socket X11 connections

Burner is designed to work at 230V single phase supply (socket X11). Boiler should be equipped with thermostat or external switch what has to be connected to pins T1 and T2 in 7- pole plug X11 for turning on/off the pellet burner. Burner can be equipped with optional lambda sensor and connected to X23. It provides efficient control for optimal performance concentrating emissions and burning efficiency.

Table 5 Connectors

Connector	Description	Colour	Data
X11	Power input	Black/Brown 7 poles	230V 16A
X14	External auger	Black	120w
X16	Secondary fan	White	
X20	External inverter	Brown	0,75kW
X23	Lambda probe	Green	
X26	Primary fan	White	

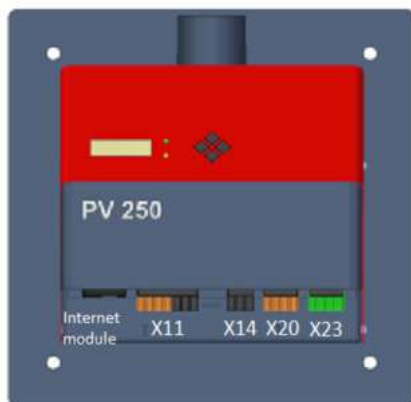


Figure 12 External connector markings

3.6 Initial start-up

Prior to the initial start-up of the burner make sure that:

- The burner is connected to the boiler.
- The boiler thermostat is installed and functioning properly.
- The external auger of the burner is installed and connected to the burner.
- The smoke duct is connected to the chimney, the dampers for smoke gases are open and there is sufficient draught. When the burner is operating, the negative pressure inside the furnace must stay between 5-20 Pa.
- Phase (L) and neutral (N) wires in power cable are connected properly.

3.7 User interface

The burner is controlled by user interface on the front panel. LCD screen (1) displays settings menu, event log and actual statuses of the burner. Yellow LED (2) shows the presence of flame in burning chamber. In case it blinks, the burner is out of normal operation. Statuses of the burner can be seen on lower row of log screen. Green LED (3) indicates existence of fuel in the burner. To move in menus, use up and down (↑↓) buttons, to change parameter, press OK, to go back to STATUS menu press “ESC” button. On Table 6 are described additional actions of buttons.

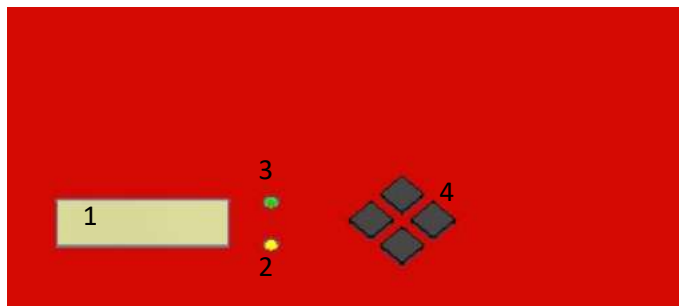


Figure 17

1. 2-row LCD display.
2. Yellow LED, indicates presence of flame in the burning chamber.
3. Green LED, indicates existence of the fuel In the burner.
4. Buttons

Table 6 User interface controls

Button	Push time	Action
OK	<3s	To enter to submenu To confirm settings (in parameter edit mode)
OK	>3s	To reset error, resume normal operation To reset counter (only in counter screen in INFO menu)
ESC		To move back in menu by one level To cancel change (in parameter edit mode)
OK+ESC	>3s	To reset burner

Status info screen displays last events (burner states) and their duration. The duration is in form mm:ss ('m' in the middle) or hh:mm ('h' in the middle). For example "Igniting 01m25 means the burner ignition state lasted 1minute and 25 seconds. Last row of the log shows current state. To reach the last row, press the "down" (↓) button, until you reach the current state. The duration of current state updates every second or minute.

Info menu is useful to troubleshoot various problems. It gives access to some input signals and internal parameters. Use "up" and "down" (↑↓) arrows to scroll through info menu.

Note: Comma "," is used as decimal separator.

3.8 Starting and stopping

To turn on the burner, turn on the boiler main switch. If burner displays STOPPED, then go to STATUS menu and change parameter BURNER from ON to OFF. The display shows WAITING. Now turn boiler thermostat to desired temperature. The burner will go to TESTING and then to LOADING-state. If this is the first run, external auger needs to fill up with pellets. It may take as long as 20minutes.

To stop the burner, set BURNER from ON to OFF in main menu. Now the burner will burn all pellets in burning chamber and turn safely to standby.

STATUS menu displays the changes:

BURNING → END BURN → END BLOW → WAITING → STOPPED

The stopping procedure may take up to 30 minutes.

Attention! If necessary the boiler's thermostat can be turned on/off from burner red switch with power indication light.

Caution! Do not turn off mains power to terminate burning process. Use the boilers thermostat for that. In order to complete burning procedure safely let the burner to burn all fuel in burning chamber. Never leave burner unattended when you had to stop boilers work turning boiler off from mains switch in any reason.

3.9 Main menu and settings

To enter to set up menu press OK. To go back to log, press ESC button.

Table 23 Main menu

Menu nr	Menu parameter ENG	Description	Default settings	Options
1	STATUS->	Submenu with status		
2	INFO->	Burner's info		
3	BURNER	Burner's turning ON/OFF	OFF	ON/OFF
4	HOLD FLAME	Hold flame allowed	OFF	ON/OFF/AUTO
5	PELLETS	Fuel quality options	NORM	NORM/LIGHT/HEAVY
6	POWER	Power level selection	AUTO	PV 250a: AUTO/250/210/170/130/100/70
7	BASE AIR	Fan speed change at once for all power levels	0	-2/-1/0/+1/+2/+3/+4/+5
8	LANGUAGE	Language options	ENG	<i>Annex 3 List of languages</i>
9	PARAMETERS ->	Parameters menu		<i>Annex 2 List of parameters</i>

Info screen in **STATUS** menu displays last events (burner statuses) and their duration. The duration is in form mm:ss ('m' in the middle) or hh:mm ('h' in the middle). For example "Igniting 01m25" means that the burner ignition state lasted 1minute and 25 seconds. Last row of the log shows current state.

INFO menu displays main burner's indicators like:

Battery voltage: U=25V64 i.e. 25,64V when feeder motor works

Feeder auger motor's current: I=2,0 A

Firmware version and date: ver=3.88 31.10.13

Total amount of pellets burnt: Total= kg (reset when firmware upgraded)

Interim amount of pellets burnt: Count= kg (reset from INFO menu press OK > 3 sec)

Selected and max power level : P= 130/250 kW (selected from POWER menu)

Burners temperature: T=23° C

Fan's speed: F= F=28/38± 2 0/35 rps (28 actual speed of primary fan, 38 set-up speed of primary fan, ± 2 base air value, 0/35 same for secondary fan)

Burning chamber's pressure: -128,5 Pa

Menu **BURNER** enables to turn burner ON or OFF.

The main idea of **HOLD FLAME** function is to reduce permanent ON OFF cycles. This function is useful if burner's working time is much longer than stand by time. For example 1 hour of working time and 10 minutes of waiting time. In „HOLD FLAME“ status the fan rotates slowly (PAR10) and small quantities of fuel are added to burner. Existence of flame is not checked. Such status lasts max one hour, after what

burner ends usual cycle and stands by. If signal from boilers thermostat arrives before hour, burner goes to state BURNING. If HOLD FLAME is set to AUTO, it activates if two stand-by times have been shorter than set value in PAR11. HOLD FLAME turns off if flame has been hold more than PAR12 value.

Menu **PELLETS** enables to select between 3 pre-set fuel quality options. Depending on fuel quality the mass of fuel could differ in same amount. That's why the calorific value of same amount may differ. By default burner calculates that one rotation pushes 80 grams pellets (PAR21) to burning chamber. If pellets density is smaller i.e. they are lighter, then with one rotation less pellets will be delivered into burning chamber. Such mistake has to be compensated by choosing LIGHT from PELLETS menu. Now burner calculates that one rotation equals with 75 grams of pellets (PAR31) and makes more rotations. In general case there is no need to make change in PELLETS menu.

Menu **POWER** determines caloric productivity of burner in kilowatts. Power is calculated by reading the rotations of the feeder auger, taking into account average caloric value of 1 kg of pellets. It is possible to pre-set particular (80; 100; or else) power level value or AUTO - automatically selected value. In AUTO status burner selects necessary power level depending on time what is needed to achieve pre-set temperature. Burner changes its capacity what is determined by parameters MIN POWER (PAR13) and MAX POWER (PAR14). If burner cannot achieve pre-set temperature in certain time (PAR15) it will raise its power automatically by one level and continues rising power up to reaching maximum level (PAR14) or boiler has achieved pre-set temperature.

If boiler achieves pre-set temperature faster than set in PAR16 burner will work one power level lower in next cycle. Power will be reduced as long as burner has reached minimal power level (PAR13).

Menu **BASE AIR** increases or decreases speed of fan in all power levels by same number. It is reasonable to use base air to balance different characters of particular heating systems. For example if draught is very strong, the fan can work at lower speed and thus reduce the draught.

Menu **LANGUAGE** enables user to select between 17 languages. List of languages is in Annex 3.

Menu **PARAMETER** gives overview of burner's default and minimal maximal settings. The menu enables fine tuning of the burner what in general is not necessary. Short description of burner's parameters is given in Annex 3.

3.10 Regular maintenance

The burning chamber of pellet burner PV 250a is equipped with automatic self-cleaning and ash removing systems. When system works regularly, there is no need to clean the burning chamber separately. Still the corners and edges of the burning chamber should be monitored for ash and other deposits. If needed cleaning must be done. Only the boiler needs regular cleaning and maintenance. Despite burner has self-cleaning ash removing system, nevertheless the ash collects under and on grates. That's why at least twice a heating period the grates need cleaning. The frequency of maintenance depends on quality of pellets and intensity of heating.

To clean the burning chamber:

1. Turn the burner off by switching from main menu BURNER to OFF.
2. Let the burner cool down for at least one hour.
3. Open boilers door, to enter to burning chamber.

4. Remove upper ceramic tiles.
5. Remove grates and clean them (use a sander if needed). Also clean the holes of the grates.
6. Clean ash from space under the grates and the side air channels.
7. Place back grates. Make sure the grate is placed correctly to holders.
8. To end the cleaning shut the boiler's door and turn thermostat to required temperature and turn burner ON.

Despite burner has self-cleaning system the boiler has to be cleaned from collected ash and non-burning residues. Manufacturer of pellet burners don't prescribe time period of cleanings.

ATTENTION! BOILER HAS TO BE CLEANED FROM ASH AND NON-BURNING RESIDUES BEFORE THEY GET TOUCHED WITH BURNERS BURNING CHAMBER. The ash and non-burning residues are perfect heat insulators. If burning chamber is surrounded with ash and non-burning residues so its normal ventilation is distracted. It causes fast overheating, out-burning and deformation of the burning chamber.

ATTENTION! DEFORMATION AND OUT-BURNING OF BURNING CHAMBER CAUSED BY NOT-IN- TIME MADE CLEANING IS NOT MANUFACTURING DEFECT AND IS NOT WARRANTY OBJECT.

4 Burner external electrical connections

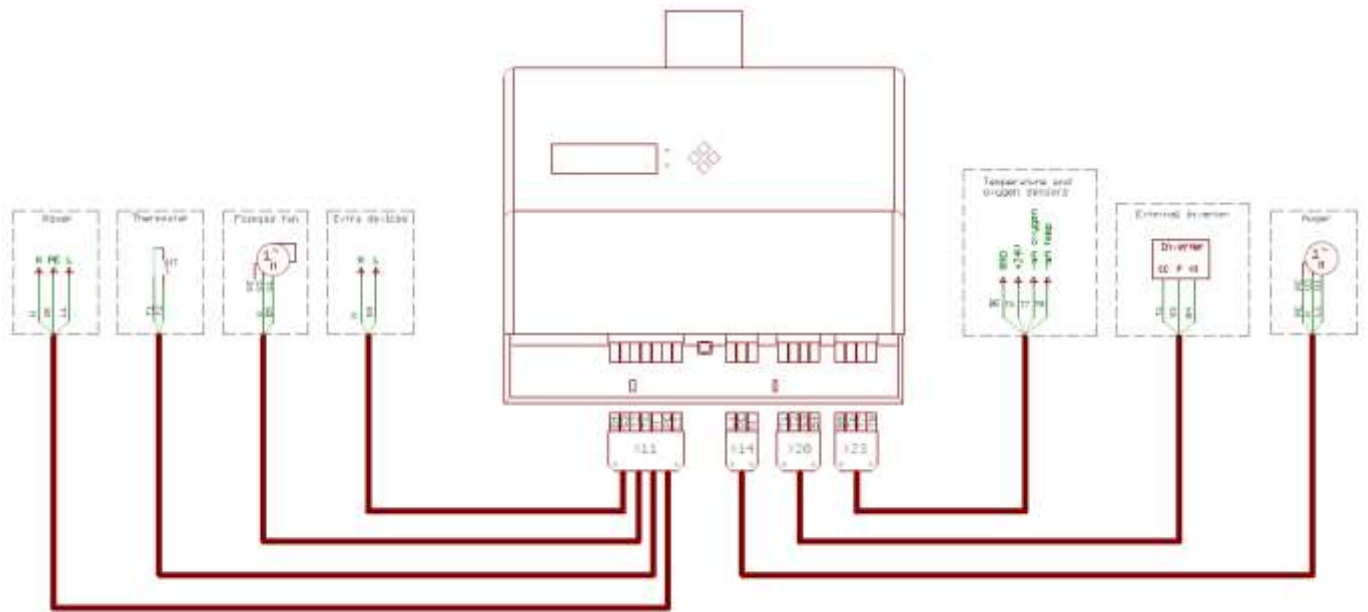


Table 27 burner electrical connections

4.1 FUSES

Table 27 Fuses

Fuse	Size	Device
F1	2A	External auger
F2	1A	Primary fan
F3	1A	Secondary fan
F4	6A	Igniter
Expansion board fuse		
F1	5A	Fluegas fan

5 Annex 5 Table of languages

Language	
ENG	English
ESP	Spanish
EST	Estonian
FIN	Finnish
FRA	France
GER	German
GRE	Greece
HRV	Croatian
LTU	Lithuanian
LVA	Latvian
NLD	Dutch
PRT	Portuguese
RUS	Russian
SLO	Slovenian
SRB	Serbian
SVK	Slovakian
SWE	Swedish

Warranty

Warranty objects in this context are pellet burner PV 250a/PV250aL and supplied auger.
Producer gives 2 years warranty from the date of sale for the PV 250a/PV250aL burner and supplied auger.

Exception is ignition element (igniter), for this item warranty is 1 (one) year.

Warranty is valid when user had not made changes in the construction and setup of the burner.

Warranty does not cover defects caused by an accident, misuse, abuse, improper installation or operation, lack of reasonable care, unauthorized medication, loss of parts, tampering, attempted repair by a not authorized person, mains errors or using poor quality fuel.

Warranty is valid only if the bottom half of the warranty ticket is filled in and sent or brought to the office of Pelltech OÜ Sära tee 3, Peetri, Rae vald, 75312 Harjumaa ESTONIA

Ph.. + 372 677 5277

www.pelltech.ee

info@pelltech.ee

Warranty ticket

Burners model	PV 250a/PV250aL
Product number
Sales date
Installation/commissioning date
Owners contacts	Installers name and signature
Name
Phone nr
City/village	
Street/ House	

.....Cut here!.....

Warranty ticket

Burners model	PV 250a/PV250aL
Product number
Sales date
Installation/commissioning date
Owners contacts	Installers name and signature
Name
Phone nr
City/village	
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