

**Teba**  
*therm*

# Installation & Manuals

**TR**

Pellet Stove With Central Heating  
System

## Model TP-12

**CE**

Tested according to DIN EN 13240

Tip BA 1

Please, see enclosed declaration of conformity for  
efficiency and emission

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Pellet stoves which is environment friendly and provide comfortable and easy-to-use interior aqueous and dry system, have taken place of dry stoves which used in Turkey and over the World.

Pellet stoves is used to heat some areas like homes, work places...etc. These are heating units that combine pleasure with fireplace view, comfort with its efficiency and fuel save; which provide equal heat distribution through radiators.

In this context, as a result, on all test in our manufacturing plant since 2011, first air and hydro pellet stoves (which are automatical, and work with pellet fuel that is renewable energy source) are produced. And we got %90 efficiency. In 2014, we started to sell in Turkey and abroad by producing all capacity.

You have a central heating pellet stove with European Standarts Quality Certificate.  
Please Read Carefully the user manual. Product functions and easy-to-use informations are described in the manual.

Use of these informations increases product quality and extend its life. Also fuel saves can be made with a correct combustion thus protect the environment.

Warranty of the product depends on the right use of installation and instructions as described in the guide.

We advice you to hide the guide in order to reach to necessary descriptions of the stove every winter.

# 1.0 Introduction

Consumption of Pellet (environmental fuel) that is preferred by all European countries

It has no risk for poisoning since it doesn't contain carbon monoxide

Electronical control system

Automatical ignition

To set-up of combusti on speed at 5 stage

To keep the boiler water temperature at a requested temperature

Remote Control system

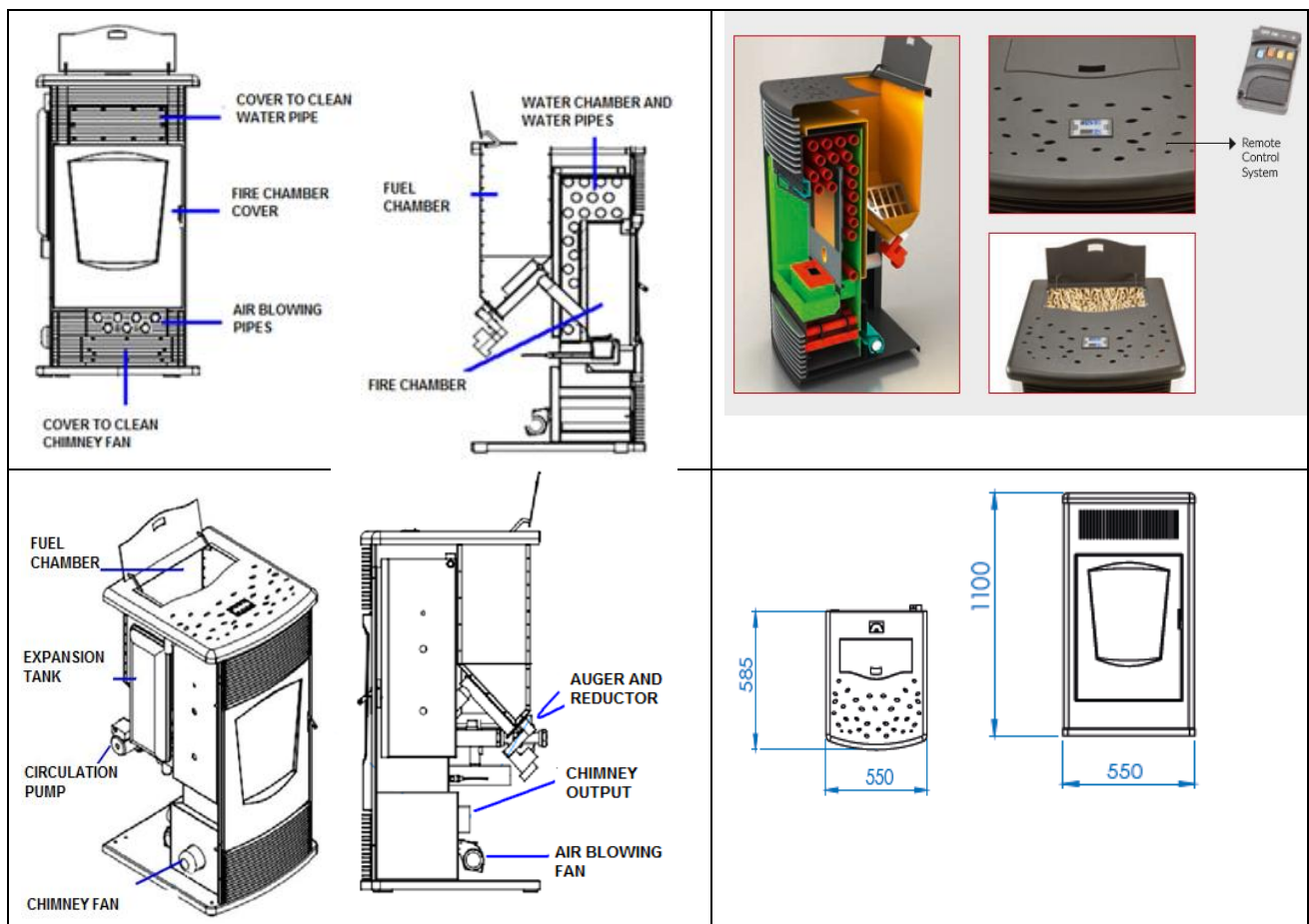
To blow air

To connect to radiators

To control by room thermostat

It provides easy and comfortable using with these features

Pump, fan, expansion tank and thermostat are kept inside the stoves



## 2.0 General Informations

All required standart examinations have been made for your product. Predicted parameters associated with combustion efficiency and exhaust gas emissions are observed. The conformity of the product described in this manual was tested in IMQ Primacontrol Laboratory

Pellet stoves provide comfortable and easy use through heating radiators, blowing hot air to ambient and fireplace view.

Pellet stove is a full automatic device. Expansion tank, circulation pump, thermostat, safety valve, switch, sensor and similar parts are located inside the stove safely.

Pellet stove provides to ignition through resistance, loading fuel through auger and reductor, also blowing and emission of chimney through fans.

### 2.1 Safety

Product assembly and plumbing connection must be installed also by authorized person.

Before installing stove, lifting capacity of the installation ground should be checked whether it is resistant for stove. In case of low resistance or low lifting capacity, suitable precautions must be taken.(for example a stove lifting plate must be put) If the floor stove installed is flammable or heat-sensitive, you should place the product on a protection plate floor (marble or glass substrate).

You should care about air condition for the area stove is installed and take measures against freezing  
The stove can be used with multiple chimney system.

Chimney can be given outside directly according to place of stove. Or can be connected to available chimney in short distance.

Our company is not responsible for the problems that can occur because of this.

Prefer quality pellet to obtain heat efficiency and to make life of device long. Don't use wet or moist pellet, shavings, wood or coal...etc.

Pellet stove shouldn't be installed in an area like bathroom, cellar, coal-hole since the stove designed for indoors.

**Attention! Before using stove and radiators please control water level.**

**\*\*\* Stove should not be used without water.\*\*\***

Our company is not responsible for the problems that can occur because of this.

### 2.2 Safety Distances(minimum distance)

While installing the stove, fire regulations and chimney's instructions must be complied. For any related questions please ask chimney provider. Flammable or heat-sensitive materials (furniture, wallpaper, wood paneling) minimum distances must be complied with (see diagram below):

- A** 20 cm from back wall
- B** 20 cm from lateral Wall and
- C** 80cm from radiation area

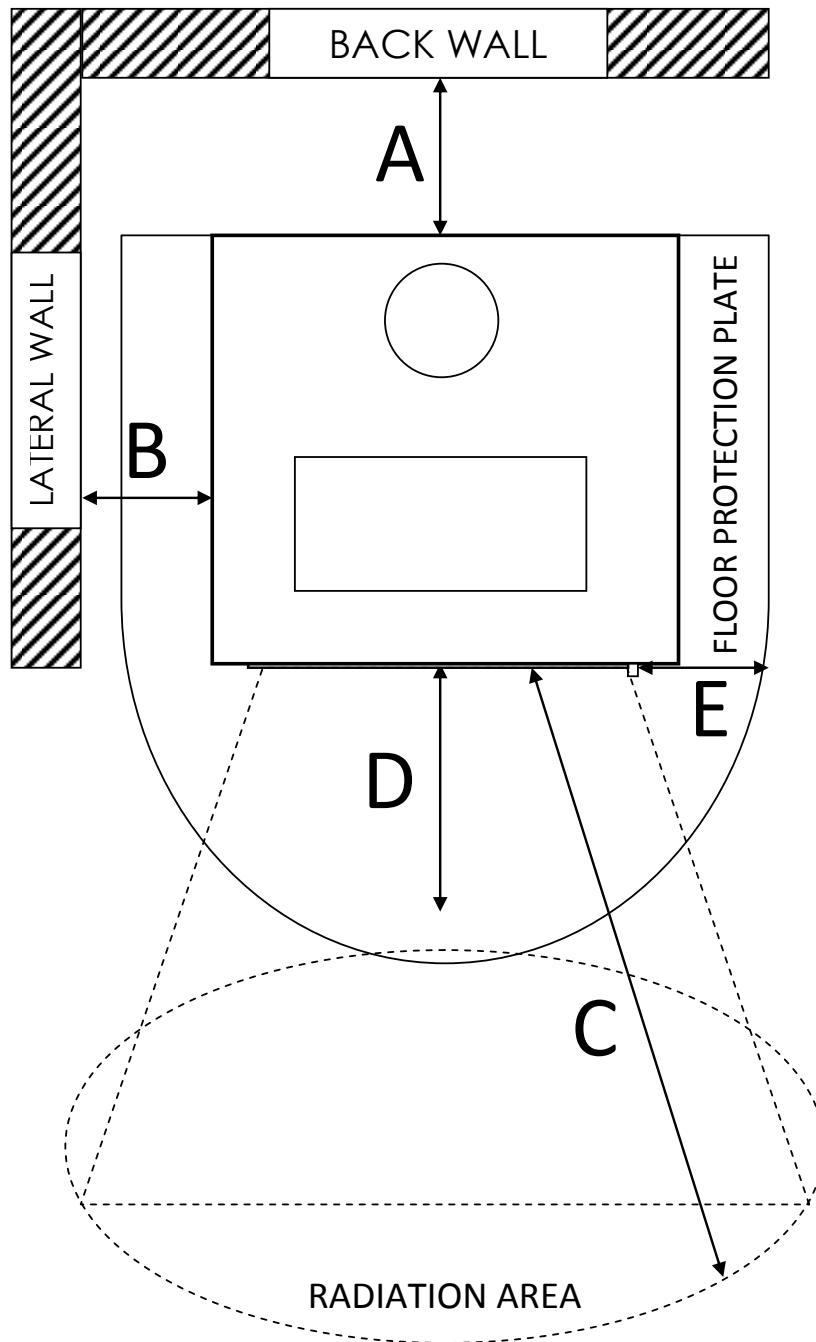
In the radiation field of the flame monitor cover (C), at 80 cm distance, combustible materials and furniture should not be placed.

This distance can be reduced to 40cm when the protection panel which inhibits the passage of heat is put between stove and combustible materials.

Minimum distance combustible materials and furniture is stated on the product label and must not be exceeded. If the floor stove installed is flammable or heat-sensitive, you should place the product on a protection plate floor (marble or glass substrate).

In this case minimum dimensions of stove bottom plate (look at drawing)

- D** 50cm ( front length)
- E** 30cm (lateral length of inner edge of fire chamber cover)



**You can order floor protection plate from seller when you require.**



## 3.0 Installation and Connection

Product assembly and plumbing connection must be installed also by authorized person.

Pellet stove is a full automatic device. Expansion tank, circulation pump, thermostat, safety valve, switch, sensor and similar parts are located inside the stove safely.

### 3.1. Electricity

Electricity system should be 220V-230V/50Hz. Our company is not responsible for any problem which occur in case sudden low or high volt.

**Note: Keep plug of device on outlet during summer-winter. Protection freezing Works under +8 °C. It makes pump work 15-20 seconds for per 24 hours automatically to avoid lock pump.**

### 3.2. Plumbing

Technically, stove radiator plumbing connections should be made by an expert or qualified person to guarantee a correct operation. Our company is not responsible for any mistakes that will occur while installing and assembling

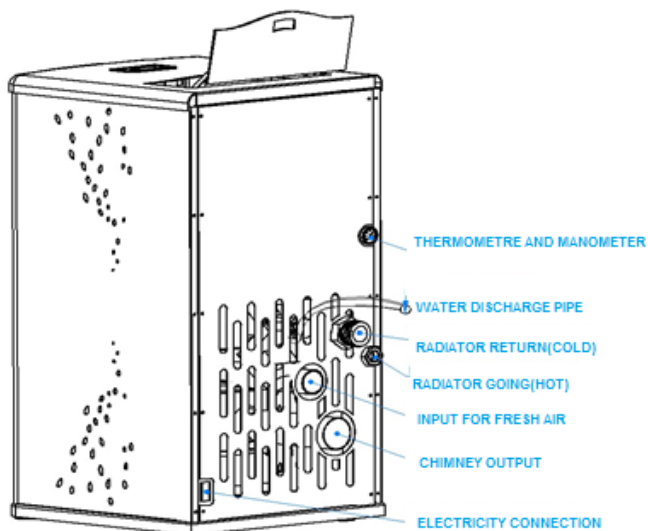
After taking all safety measures, main line pipes can be connected until last a few radiators with 1" pipe(PVC or metal) without more elbow. Thus hot water can circulate easily, and so you feel heat in the shortest time. Later ¾ pipes(PVC or metal) can be used.

Plumbing main line pipes should be connected to radiators safely with connection apparatus like assembly diagram.(record, valve, nipple). After connection, water is added with help of valve from point that is determined by expert. And later tightness must be controlled and taken air on radiators and valves.

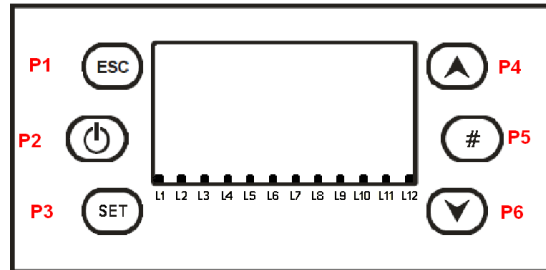
You should put antifreeze on plumbing against freezing and corrosion, according to climate conditions.

### 3.3. Chimney Connection

We advice steel chimney pipe for chimney connections. Pellet stove can be connected to multiple chimney. Chimney can be given outside directly according to place of stove. Or can be connected available chimney in short distance.



## 4.0 Control Panel



### 4.1 Buttons

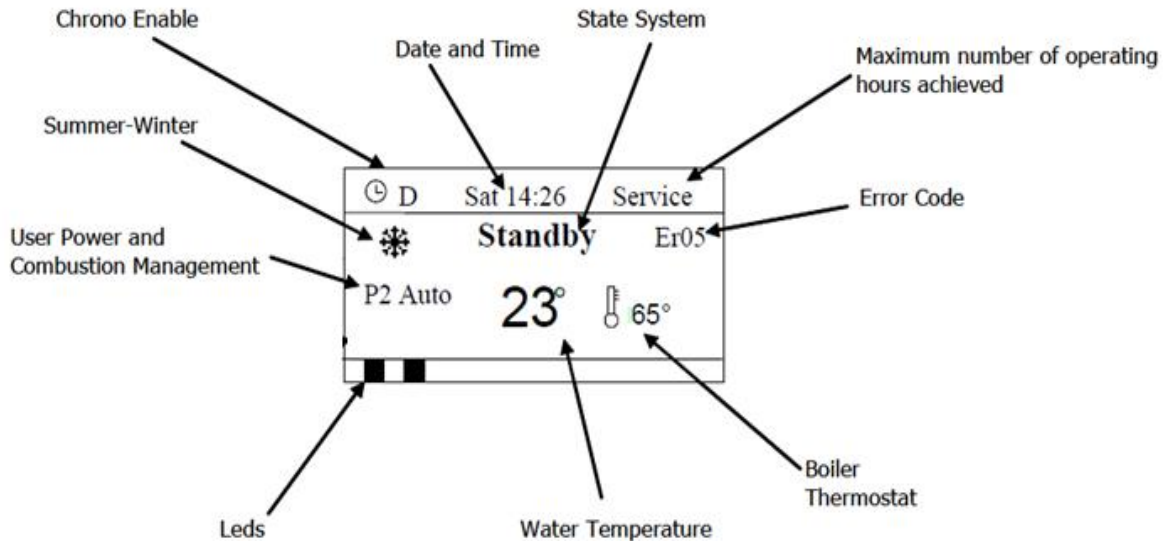
Function	Description	Button
<b>On/Off</b>	Function Ignition, Extinguishing pushing the button for 3 seconds until the acoustic signal	
<b>Unblock</b>	Function unblocked when the system is in Block pushing the button for 3 seconds until the acoustic signal	<b>P2</b>
<b>Modify Menu and Submenu Values</b>	In modify mode change Menus and Submenus values	<b>P4</b>
<b>Run On Menu and Submenu</b>	In Menu run on Submenu and Menu	<b>P6</b>
<b>Visualizations</b>	Enter and run in Visualization Menu	
<b>Esc</b>	Function Exit managed pushing the button	<b>P1</b>
<b>Menu</b>	Function Enter in Menu or in a Submenu	
<b>Modify</b>	Enter in modify mode into a Menu	<b>P3</b>
<b>Set</b>	Save data in a Menu	
<b>Reset System Maintenance 2 Function</b>	Reset <b>T67</b> timer	<b>P5</b>

### 4.2 Leds

Function	Description	Led
<b>Heating Resistance</b>	Led On: Resistance ON	<b>L1</b>
<b>Auger</b>	Led On: Auger in the On interval	<b>L2</b>
<b>Pump</b>	Led On: Pump ON	<b>L3</b>
<b>Valve</b>	Led On: Valve ON	<b>L4</b>
<b>Output V2 configured as Pellet Safety Valve or Load Pellet Engine or Cleaning Pipe Engine</b>	Led On: Output V2 ON	<b>L5</b>
<b>Heating Fan</b>	Led On: Heating Fan ON	<b>L6</b>
<b>Output Aux2 configured as Pellet Safety Valve or Load Pellet Engine or Cleaning Pipe Engine</b>	Led On: Output Aux2 ON	<b>L7</b>
<b>Pellet Level</b>	Led On: lack of pellet	<b>L10</b>
<b>External Thermostat</b>	Led On: contact open	<b>L11</b>
<b>Flowswitch *</b>	Led On: Sanitary Water demand	<b>L12</b>

\*Only for plumbing with Flow Switch

## 4.3 Display



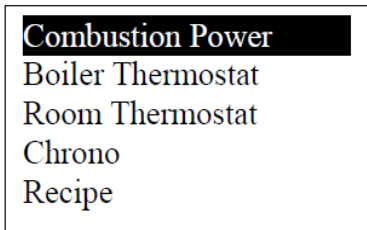
## 4.4 Errors

<b>Er01</b>	Error Safety High Voltage 1. Also with the system Off
<b>Er02</b>	Error Safety High Voltage 2. Only if the Combustion Fan is On.
<b>Er03</b>	Extinguishing for exhaust under temperature
<b>Er04</b>	Extinguishing for water over temperature
<b>Er05</b>	Extinguishing for exhaust over temperature
<b>Er07</b>	Encoder Error. This error can occurs for lack of Encoder signal
<b>Er08</b>	Encoder Error. This error can occurs in case of adjustment problems of rounds number
<b>Er09</b>	Water pressure low
<b>Er10</b>	Water pressure high
<b>Er11</b>	Real time clock error
<b>Er12</b>	Extinguishing for Ignition failed
<b>Er15</b>	Lack of voltage
<b>Er17</b>	Air Flow Regulator Error
<b>Er18</b>	Run out of pellet
<b>Er39</b>	Air Flow Regulator Sensor broken
<b>Er41</b>	Minimum air flow in Check Up not reached
<b>Er42</b>	Maximum air flow Up reached ( <b>FL40</b> )

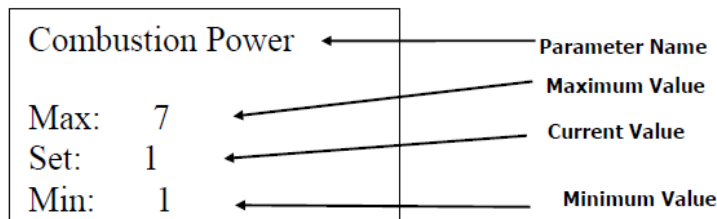
<b>Sond</b>	Visualisation of the state of temperature probes. The message displayed in Check-Up indicates that the red temperature on one or more probes is equal to the minimum value (0°C) or maximum (it depend on probe considered). Check that the probes aren't open (0°C) or in short-circuit (maximum value of the temperature scale).
<b>Service</b>	This message notifies that the planned hours of functioning (parameter <b>T66</b> ) is reached. It is necessary to call for service.
<b>Clean</b>	This message notifies that the planned hours of functioning (parameter <b>T67</b> ) is reached. It is necessary to clean the stove or boiler.
<b>Ignition Block</b>	The message appears if the system is turned off during Ignition (after Preload) by an external device: the system will stop only when it goes in Run Mode.

## 4.5 Menu

Push P3 button to enter in the User Menu



Using P4 and P6 buttons it is possible to select the desired Menu or Submenu. Push P3 button to enter in desired Menu or Submenu.



To decrease or increase value push the buttons P4 or P6; to save the new value push the button P3; to cancel the modifies and restore the old parameter's value push the button P1.

If a parameter value is changed, the new value is sent to the control board; if the transmission failures appears the message "Transfer not successful": in this case modify again the parameter's value.

### 4.5.1 Combustion Power Menu

This Menu allows to set the system's combustion in automatic or manual mode (in this case it is possible to set the combustion power).

### 4.5.2 Heating Power Menu

This Menu allows to manage the system's heating in automatic or manual mode (in this case it is possible to set the heating power).

If the user chooses the automatic mode, the heating is proportional to the exhaust temperature or to the room temperature or equal to the combustion power.

### 4.5.3 Boiler Thermostat Menu

Menu which allows to modify the Boiler Thermostat's value. It is possible to program the minimum and the maximum value of the Boiler Thermostat setting the **Th26** and **Th27** Thermostats.

### 4.5.4 Buffer Thermostat Menu

Menu which allows to modify the Buffer Thermostat's value. This Menu is visible only setting a plumbing plant with a Buffer probe.

### 4.5.5 Room Thermostat Menu

Menu which allows to modify the Room Thermostat's value.

### 4.5.6 Remote Keyboard Menu

Menu which allows to enable the Room Thermostat of the Remote Keyboard.

### 4.5.7 Chrono Menu

Menu to set the time to switch on and off the stove or the boiler. It has 2 Submenu: Modality and Program.

### 4.5.8 Modality

This Menu allows to:

- ☑ disable the ignition/extinguishing of the system by chrono
- ☑ choice the modality (Daily, Weekly or WeekEnd) to switch on and off the stove or boiler. If a chrono modality is set, on main frame appears the relating symbol (D=Daily, W=Weekly, We= Week-End)

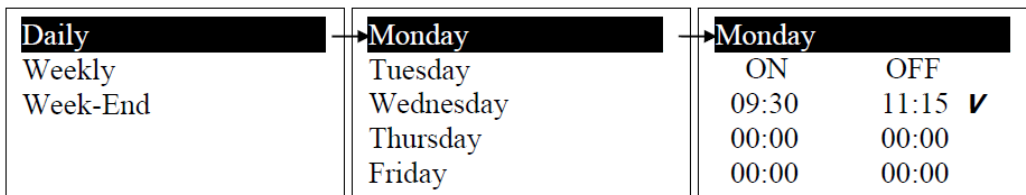
Procedure Description	Buttons	Display
Modify current modality (the selected modality blinks)	<b>P3</b>	<div style="border: 1px solid black; padding: 5px;">                     Disable                      Daily                      Weekly  <span style="background-color: black; color: white;">Week-End</span> </div>
Select the favourite mode	<b>P4 e P6</b>	
Cancel the modifies and restore the old modality	<b>P1</b>	
Save the new setting	<b>P3</b>	
Exit from Menu	<b>P1</b>	

### 4.5.9 Programming

This Menu allow to set the time slot the favourite modality (Daily, Weekly, Week-End). If it is selected the modality:

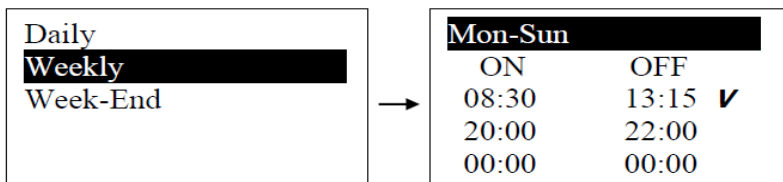
#### 4.5.9.1 Daily

Select the day of week and program the times to switch on and off the system; for each day there are 3 time slots



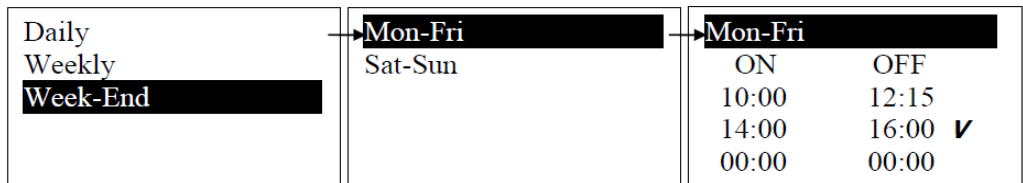
#### 4.5.9.2 Weekly

Program the times to switch on and off the system: there are 3 time slots.



### 4.5.9.3 Week-End

Choice between "Monday-Friday" and "Saturday-Sunday". There are 3 time slots for each period.



Program Chrono	Button
After choosing the favourite program:	
Select the programming time	P4 o P6
Enter in modify mode (the selected time blinks)	P3
Modify the timers	P4 o P6
Save program	P3
Enable a program (a "v" appears) or disable a program (a "v" disappears)	P5
Exit	P1

Program Chrono across Midnight
Set the hour of <b>On</b> for the previous day to the wanted value: Example 20.30
Set the hour of <b>OFF</b> for the previous day at: <b>23:59</b>
Set the hour of <b>On</b> for the next day at <b>00:00</b>
Set the hour of <b>OFF</b> for the next day to the wanted value: Example 6:30
The system will turn on Tuesday, at 20.30, and will turn off on Wednesday, at 6.30.

The 3 programs modality are saved separately: for example, if it is set the daily mode, the others mode aren't modified.

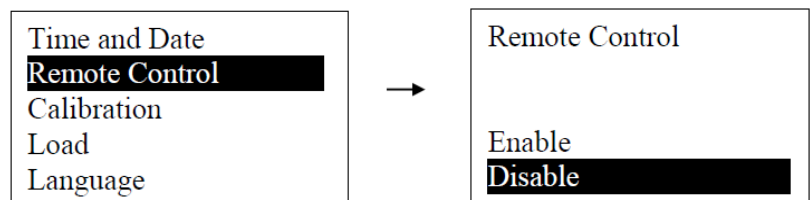
**IMPORTANT:** after the Chrono programming to switch on the system by Chrono it is necessary to enable the desired mode (Daily, Weekly or Week-End) from Modality Menu.

### 4.5.10 Time and Date Menu

This Menu allows to set time and date. Push the button **P4** and **P6** to select hours, minutes, year, month and day. Push **P3** to enter editing, **P4** and **P6** button to change the value. Push **P3** to save and **P1** to exit.

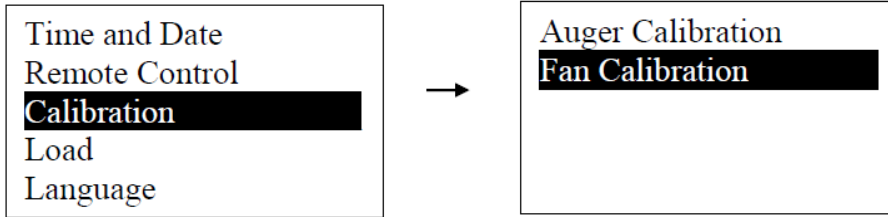
### 4.5.11 Remote Control Menu

This Menu allows to enable or disable the Remote Control SYTX.



### 4.5.12 Calibration Menu

This Menu allows to modify the Combustion Fan's speed and the Auger's work time set by factory. It has two Submenu.

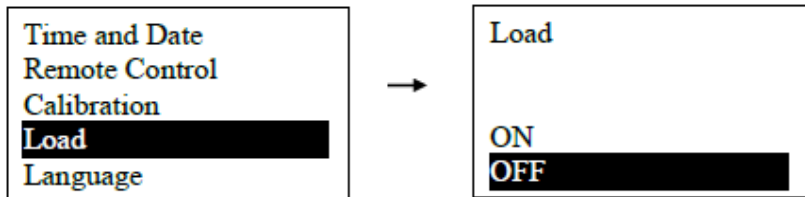


The system has 10 calibration's steps (the 0 value is set by the factory). For each step the value is increased or decreased of a per cent value (the per cent value is set in the Step Calibration Menu of System Menu).

The calibration's effect is valid only in Run Mode and in Modulation for the current recipe.

### 4.5.13 Load Menu

This menu allows load manually the Auger or the brazier.



The loading stops automatically after 600 seconds. **The system has to be in Off State to do the loading.**

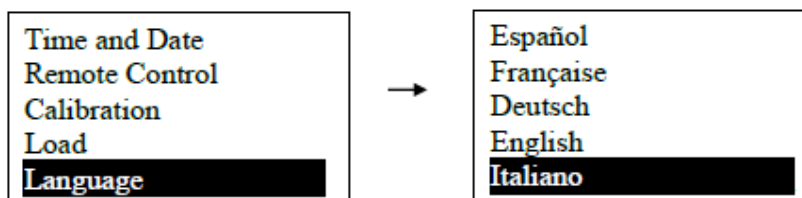
**NOTE:** when the auger is manually started the Exhaust Fan switches on in order to close pins **13-14** (HV2) for the power supply of the auger.

### 4.5.14 Summer - Winter Menu

Menu to modify the plumbing plant functioning according to the season. On display appears one of these symbols: , .

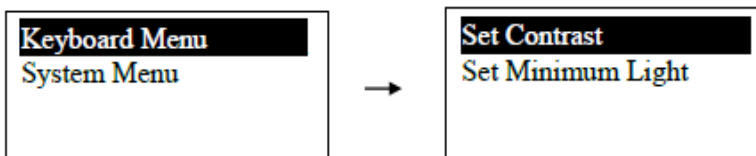
### 4.5.15 Language Menu

This Menu allows to change the language of LCD panel.



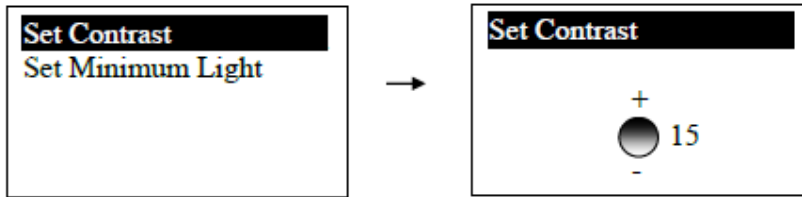
### 4.5.16 Keyboard Menu

Menu to set the contrast and light of LCD panel.



### 4.5.16.1 Set Contrast

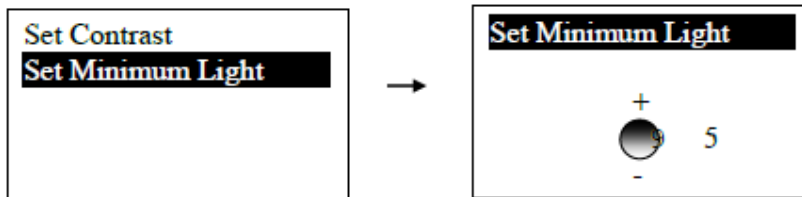
This Menu allows to set the display contrast.



Push the buttons **P4** and **P6** to increase or decrease the contrast; **P3** to save and exit, **P1** to exit without save.

### 4.5.16.2 Set Minimum Light

This Menu allows to set the display light when you don't push any button.



## 4.5.17 System Menu

THIS MENU IS FOR AUTHORIZED PERSON.

## 5.0 Stove Work Principles

Only adults should use stoves. Children should not stay alone and close to stove. Stoves should only be used according to this manual. Safety instructions described in section 2.1 should be followed.

### 5.1 Suitable Fuels

Pellet is a solid fuel which is obtained by compressing wood wastes at high pressure after drying, grinding and making shavings and diameter of pellet 6-8 mm.

Wood pellet contains approximately 7-12% moisture. Its calorie higher than wood since its moisture rate is low.

There are at least 3 steps while producing pellet. Firstly, wood wastes are made shavings by grinding, after that they are dried with minimum moisture, later compressed, made cold and packaged. After these process,, combustion and energy efficiency of trees increases 300% and so contribute economy, environment and nature. It means that fuel amount decrease at rate 1/3, in addition lower damage on forest and lower cost.

#### Advantages

It is a sustainable source. It contributes to economy and decreases imports of fossil fuel

It is acceptable for environment and health. After using ash is very low.

It is less dangerous than the other fossil fuels

It is used for producing electricity

It is under acceptable CO oscillation threshold values according to Kyoto Protokol

The cleanest of solid fuel is pellet

It is easily provided over the World

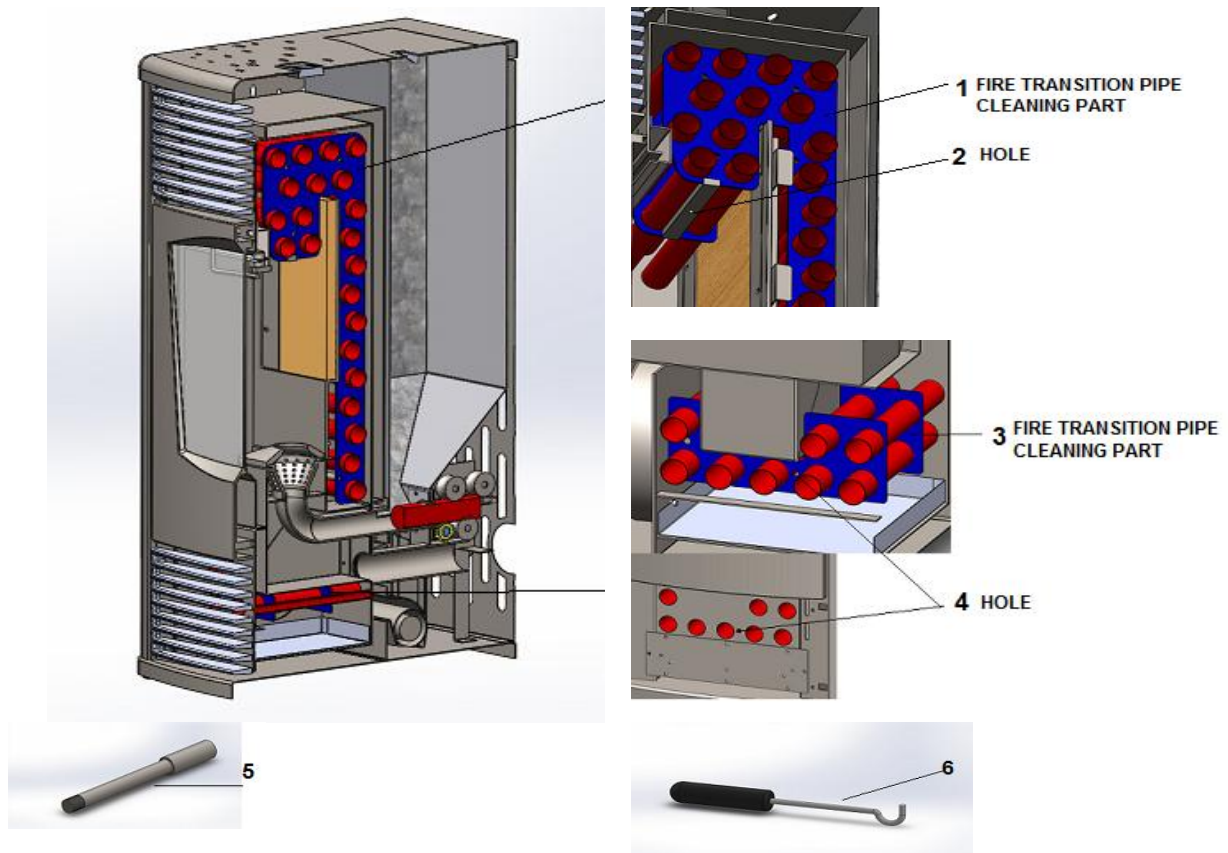
Transpotation of wood pellet is very easy



It is not necessary to cut trees for commercial pellet. Wood wastes are used and so it can be burned easily. Also, it contributes to avoid forest fire since wastes are collected  
 It needs smaller area compared to wood  
 During using other solid fuels, creosote occurs on chimney and for pellet there is almost no creosote. Thus it is not necessary to connect to a chimney, smoke can be given outside directly from its chimney output



## 5.2 Cleaning And Maintenance

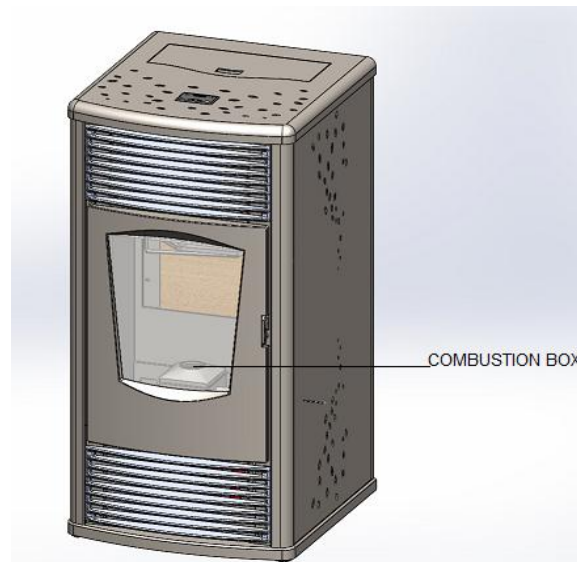


### 5.2.1 Cleaning Fire Transition Pipes

Fire transition pipes can be cleaned easily by help of the parts number 1 and 3. To clean pipes on the top you can use the part number 6. After opening the fire chamber cover, put the part 6 inside the hole(2), and later move it to right and left.

To clean pipes on the top you can use the part number 5. Put the part 5 inside the hole(4), and later push back and forth.

## 5.2.2 Cleaning Combustion Box



The time of combustion box cleaning frequency depends on quality of pellet fuel. This part should be cleaned Daily or weekly.

## 6.0 General Warranty

### 6.1 Warranty Policies

TEBA THERM provide guarantees to the buyer within the framework of legal provisions. Two-year warranty period which starts from the date of delivery, to benefit from warranty legal policies please keep your bill.

**Pump, glass, faults on control board because of low or high voltaj, wrong use are out of warranty.**

If your product damages within warranty period our company will try to resolve the damage or will replace damaged part. Only submitted and approved spare parts provided by manufacturer should be used.

Upon the end of the warranty period, we wish to emphasize our customer service is at your disposal in the current conditions.

### 6.2 Complaints

We ask you to direct your complaints to your dealer. You definitely need to specify your stove model. This information is stated on the back of the product.

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## 7.0 Informations to Order Spare Parts

You should contact your spare parts provider.

**Attention!!! Stove place should not be changed. Only advised and approved spart parts of manufacturer should be used. In case of need please contact your dealer or provider.**

**After the publication of this manuel, the company reserves the right to make changes.**