

FREESTANDING PELLET STOVE

(PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE)



A LIFETIME OF WARMTH

***Please read this entire manual before installation and use of this pellet fuel burning room heater. Failure to follow these instructions could result in property damage, bodily injury, or even death.**

***Save these instructions!**

INSTALLER: THIS MANUAL MUST STAY WITH APPLIANCE!

Table of Contents

1. Fuel Requirement-----	3
2. Stove Features -----	4
3.Stove Installation-----	5
4. Pellet Stove Installation -----	7
5. Operation-----	13
6. Cleaning and Maintenance-----	27
7.Troubleshooting-----	32
8. Electronic Plan-----	37
9. Warranty-----	38

1. Fuel Requirement

Pellets are made from wooden waste, from sawmills and planning workshops, as well as from residue from forestry operations. These “starting products” are crushed, dried, and pressed into Pellet “Fuel” without any bonding agent.

SPECIFICATIONS FOR HIGH QUALITY PELLETS

Calorific Value: 5.3 kWh/kg

Density: 700 kg/m³

Water Content: Max. 8% of the weight

Ash proportion: Max. 1% of the weight

Diameter: 5 - 6.5mm

Length: Max. 30mm

Contents: 100% wood untreated and without any bonding agents added (bark proportion max. 5%)

Packaging: In sacks, made of environmentally neutral or biologically degradable plastic, or from paper (2-3 layers / similar to cement packaging)

Please ask your pellet stove dealer for tested fuel and a list of monitored fuel manufacturers. Using poor quality or prohibited pellet fuel will have a negative effect on the function of your pellet stove and can also lead to the warranty becoming null and void, as well as the product liability connected with this. Observe waste incineration legislation. Burn only pellets that have been tested.

PELLET STORAGE

In order to guarantee problem free burning of the wooden pellets, it is necessary to store the fuel as dry as possible and free from impurities.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety:

Children should be supervised to ensure that they do not play with the appliance.

2. Stove Features

Pellet stove is advanced designed and has individual fresh air input and venting system.

Negative pressure burning technology causes high efficiency and little ash outlet during

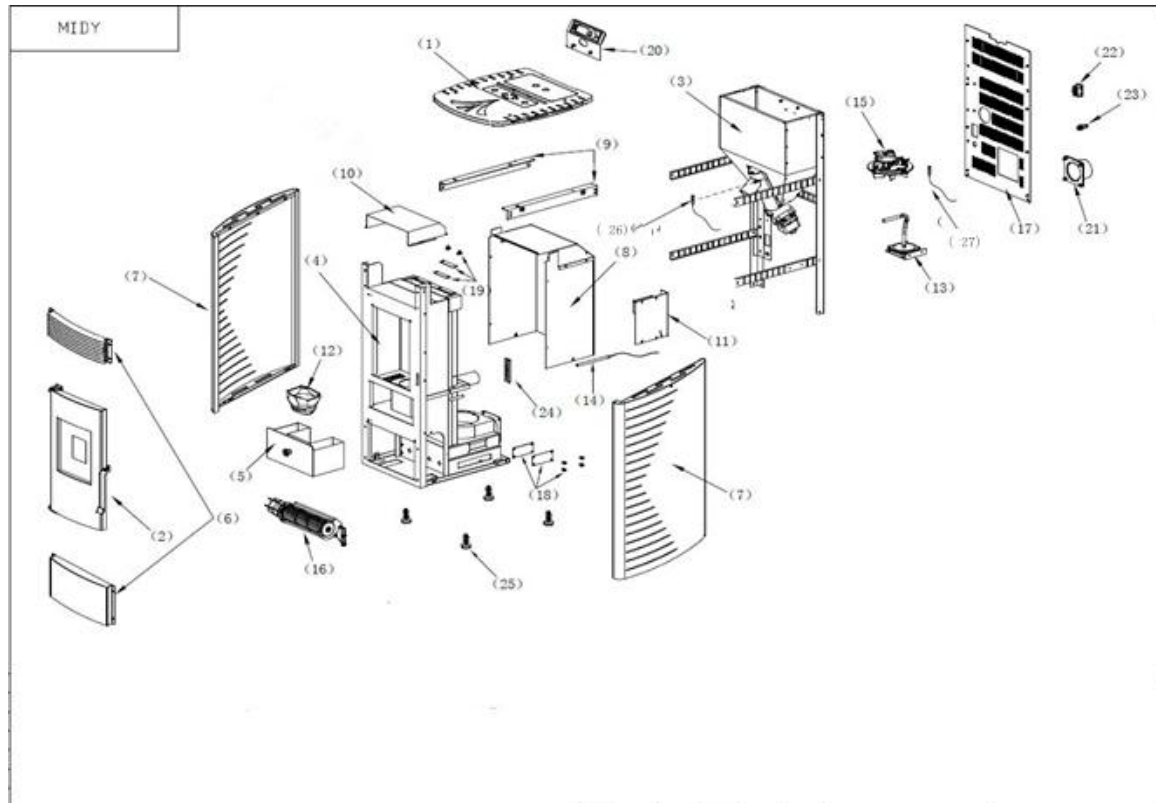
burning. It will be shut off automatically by wrong burning or out of fuel. Large BTU, quick

heating and low fuel cost are its advantages.

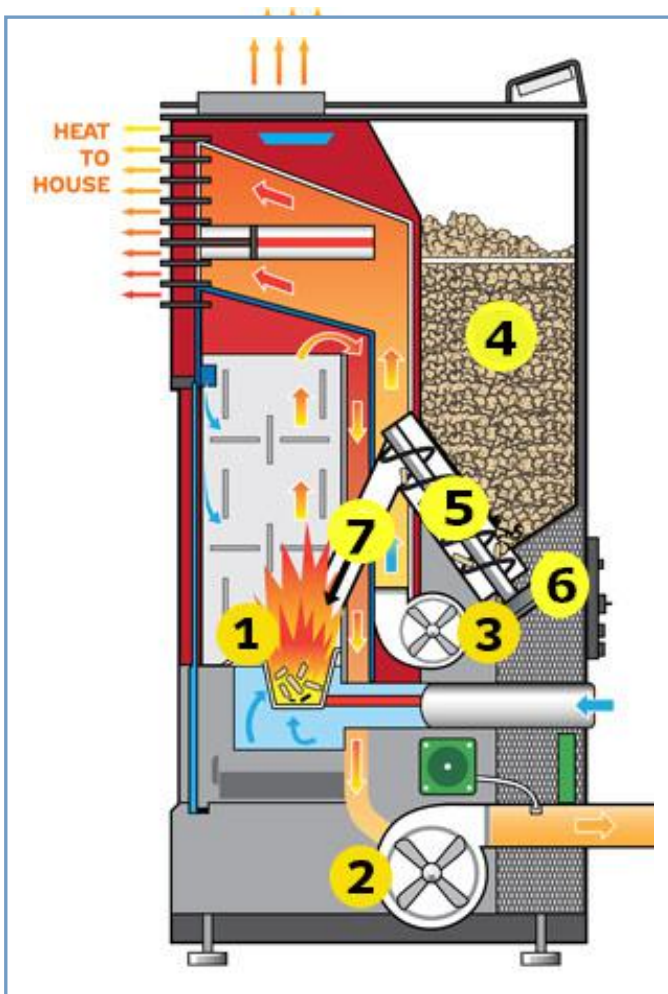
Model	MINI	MIDI	MAX
Dimension(W*H*D)	463*718*507MM (1.52*2.36*1.66ft)	463*918*511MM (1.52*3.01*1.68ft)	542*1020*555MM (1.78*3.35*1.82ft)
Weight	65KG(143.3lb)	75KG(165.3lb)	95KG(209.4lb)
Air inlet Pipe	32MM(0.1ft)	50MM(0.2ft)	50MM(0.2ft)
Air outlet Pipe	80MM(0.3ft)	80MM(0.3ft)	80MM(0.3ft)
Heat Area	40-60M2 (431-646 sq.ft)	60-90M2 (646-970 sq.ft)	90-120M2 (970-1292 sq.ft)
Automatic Burning Time(Min-Max)	7/13H	8/18H	12/35H
Fuel	Wood Pellet	Wood Pellet	Wood Pellet
Consumption for Pellet(Min-Max)	0.6/1.2KG/H (1.32/2.65lb/h)	0.8/1.8KG/H (1.77/30.9b/h)	0.8/2.3KG/H (1.77/5.1lb/h)
Efficiency	90%	90%	90%
Hopper Capacity	8KG(17.6lb)	14KG(30.9lb)	28KG(61.7lb)
Electronic consumption	100-400W/H	100-400W/H	100-400W/H
Rating Voltage and Frequency	230V 50HZ (110-120V 60HZ)	230V 50HZ (110-120V 60HZ)	230V 50HZ (110-120V 60HZ)
Rating Power	6 KW(20475btu)	9KW(30710btu)	13KW(44360btu)

3. Stove Instruction

The stove is mainly made up of following items:



1. Top covers 2.Door 3.Pellet Hopper 4. Pellet Chamber 5.Ash Drawer 6.Front Top and bottom Cover 7. Side Panels 8. Chamber Insulation cover 9. Shoulder 10. Hot wind driver
- 11.Motherboard 12.Fire pot 13. Vacuum Switch. 14. Igniter 15. Combustion fan. 16. Blower 17. Rear Cover. 18Bottom Clear cover. 19 top clear covers 20. Display. 21. exhaust connection. 22. Power input socket(contains the main fuse). 23.Room temperature Sensor. 24. Handle. 25 Stove Feet. 26. Safety temperature Sensor. 27. Exhaust temperature sensor



The heater is mainly made up of following items -

1. Combustion burn pot
2. Room circulation fan
3. Exhaust fan
4. Hopper
5. Auger
6. Auger Motor
7. Pellet chute

The following is a list of main components and their functions:

IGNITER

The HEATER comes equipped with an automatic electric igniter for lighting the fuel when the heater is in lighting mode only. The igniter remains energized for the first eight minutes of the lighting sequence.

VACCUM SWITCH

The HEATER has a safety vacuum base. If a low pressure is created in the

firebox by a leak, opening the front door, a blocked flue, or unsealed ash drawer, the vacuum switch will sense it and cause the heater to go into a shutdown mode.

AUGER AND AUGER MOTOR

The 2 RPM auger motor turns the auger lifting pellets up the auger tube. The pellets are then dropped down a tube and into the firepot. The auger is controlled by the control board.

OVER TEMPERATURE THERMOSTAT

This safety switch is installed on the bottom of hopper and will shut off the heater if it senses excessive temperatures (70 degrees).

CONVECTION BLOWER THERMOSTAT

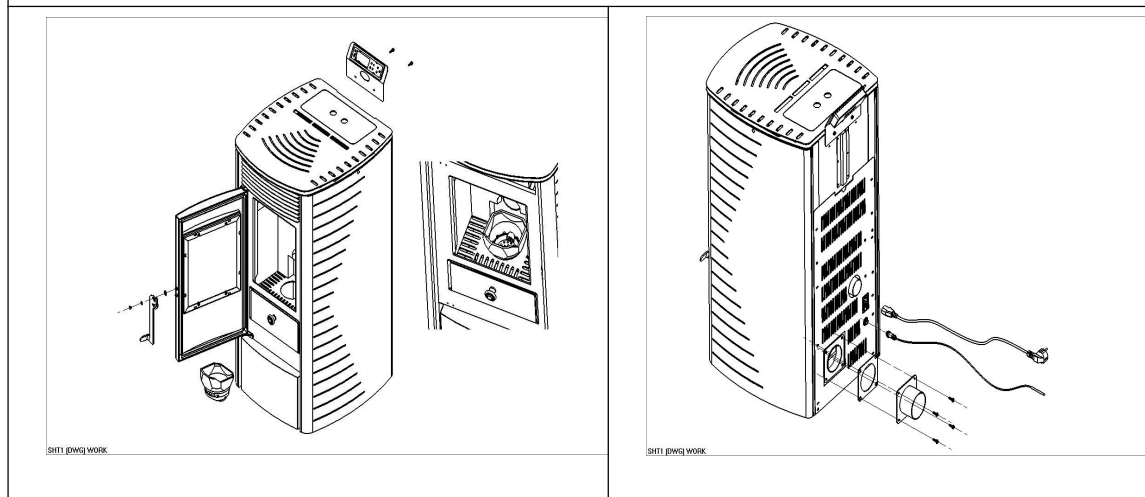
This switch is installed on the vent pipe and turns the convection blower on when the heater is above 40 degrees.

4. Pellet Stove Installation

ALL NATIONAL AND LOCAL REGULATIONS AND EUROPEAN STANDARDS SHALL BE COMPLIED WITH WHEN INSTALLING THE APPLIANCE

Before install a stove in a room, select the right stove to be able to heat the room. Please check the STOVES' Heating area in the Chapter of STOVE FEATURE.

COMPLETE THE STOVE BEFORE INSTALLATION



GENERAL INFORMATION

The stove must be connected to a chimney that is approved for solid fuels. The chimney must have a diameter of at least 80 mm.

The flue system is based on negative pressure in the combustion chamber and a slight overpressure on the flue gas outlet. It is therefore important that the flue gas connection is fitted correctly and is airtight.

Only use heat resistant sealing materials, as well as the relevant sealing bands, heat resistant silicon and mineral wool.

Only authorised technical personnel must carry out assembly work.

In addition you must ensure that the flue tube does not project into the free cross section of the chimney.

NOTE: Please follow the regionally valid building regulations. Contact your master chimney sweep for information on this.

Ensure that outlet routes to the chimney are not too long.

Avoid too many changes of direction for the flue gas flow to the chimney. (e.g. too many corners and bends).

Where you cannot connect directly to the chimney, if possible use a connection piece with cleaning opening.

For optimum efficiency please use the type of connector we recommend.

4.1. Install the stove

4.1.1 install the handle if necessary



4.1.2 put the fire pot rightly , then close the door



4.1.3. Install the adjust foot



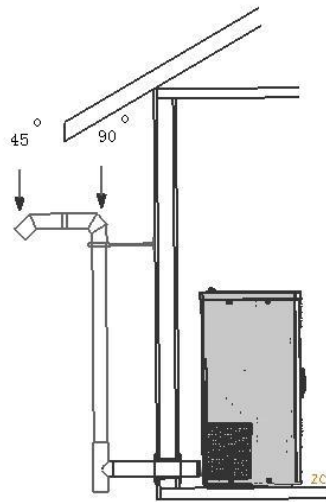
4.1.4. install the chimney pipe



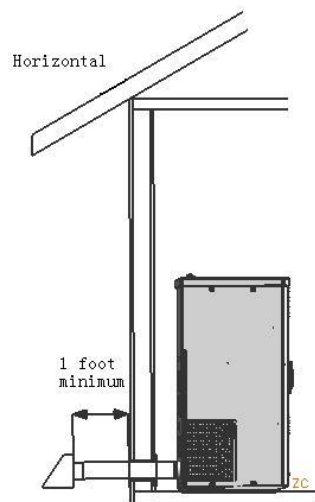
4.1.5. connect the power line



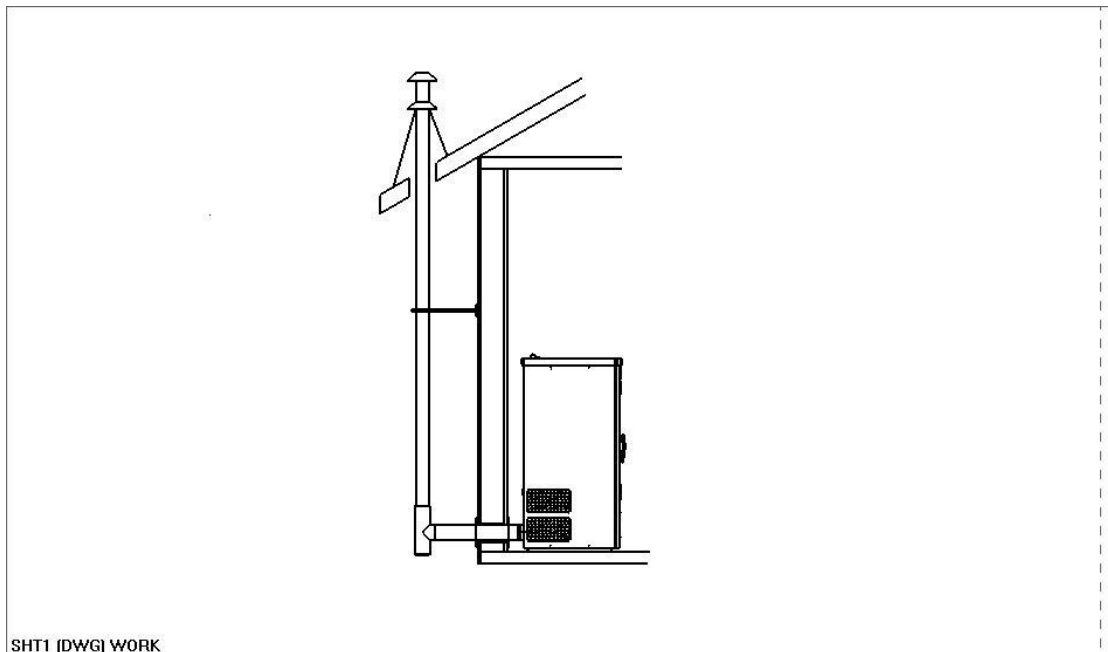
4.2. MAKING THE CHIMNEY CONNECTION



Horizontal (But it is not recommended, when the electronic power is off, the smoke might come out if the stove is on)



Horizontal and Up through the eave



SHT1 [DWG] WORK

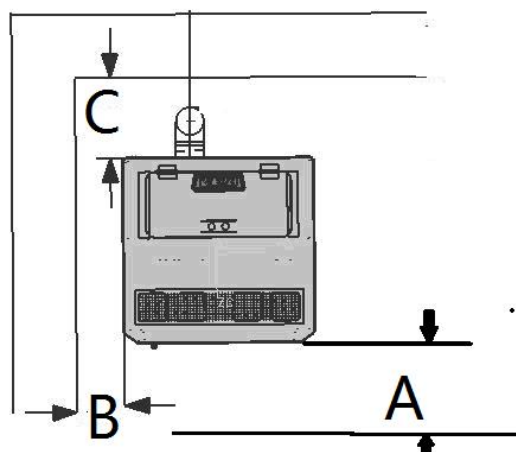
Method

1. Measure and draw the chimney connection (taking any floor plate thickness into consideration).
2. Chisel out (drill) the hole in the wall
3. Brick in the wall lining
4. Connect stove with the flue tube to the chimney.

FLOOR PROTECTION

For flammable floor surfaces (wood, carpet, etc.) a glass, steel plate or ceramic underlay is required.

SAFETY DISTANCES



(Measured from the outside of the stove)

From non-combustible objects

A > 400 mm B > 100 mm C > 100 mm

From combustible objects and to load-bearing walls in reinforced concrete

A > 800 mm B > 200 mm C > 200 mm

ELECTRICAL CONNECTION

The stove is supplied with an approx. 2 m long connecting cable with a plug. The cable must be connected to a 230 V, 50 Hz electrical supply. The average electric power consumption is approx 100 watts during heating. During the automatic ignition process (duration 10 minutes) approx. 350 watts. The connection cable must be laid so that any contact with hot or sharpened external surfaces on the stove is avoided.

COMBUSTION AIR

Each combustion procedure requires oxygen or air. As a rule this combustion air is removed from the living area for individual stoves. The air taken from the living area must be reintroduced. In modern houses, very tight fitting windows and doors mean that too little air flows back. This situation becomes problematic due to additional ventilation in the house (e.g. in the kitchen or WC).

The suctioning in of combustion air is performed via the flue gas blower. The resulting combustion air and suctioning noises are normal operational noises that may occur at varying volumes depending on the chimney draught, output level or a dirty combustion trough – NOT A CAUSE FOR COMPLAINT!

Feed of external combustion air

- Steel, HT or flexible aluminium pipes must be used.
- Minimum diameter 5 cm/2 inches.
- For longer connection runs the diameter must be increased to approx. 10 cm after approx. 1 m.
- The pipe should not be longer than approx. 4m in total to guarantee adequate air feed and not have too many bends.
- Should the line lead into the open air, it must end with a vertical 90° downward elbow or with a wind guard.

Should one or more of these conditions NOT be applicable then usually poor combustion will occur in the stove, as well as air under pressure in the apartment.

We recommend that a ventilating grille be fitted in a window near the stove for permanent ventilation. Further it is possible to extract the combustion air directly from outside or from another room that is well ventilated (e.g. the cellar).

Please observe:

Your pellet stove works independent of the room air. Negative pressures in the set-up room are not permissible. Therefore the use of a safety device (e.g. differential pressure controller) in combination with room air facilities (e.g. ventilation system, exhaust extraction etc.) is stipulated.

5. Operation

ALL NATIONAL AND LOCAL REGULATIONS AND EUROPEAN STANDARDS SHALL BE COMPLIED WITH WHEN OPERATING THE APPLIANCE

Attention: When the stove in operation ,please don't touch the front of it. Its extremely hot!

Note: When first time's running, the paint can be get rid of by burning. So some unpleasant Smell might come out. Please open the window and door to vent the smell.

Note: If the new stove, when its first time using, it is necessary to put a handful of wood pellet to the fire pot before hand.

Note: Keep the fire pot and its underneath clean when every time you start the stove!

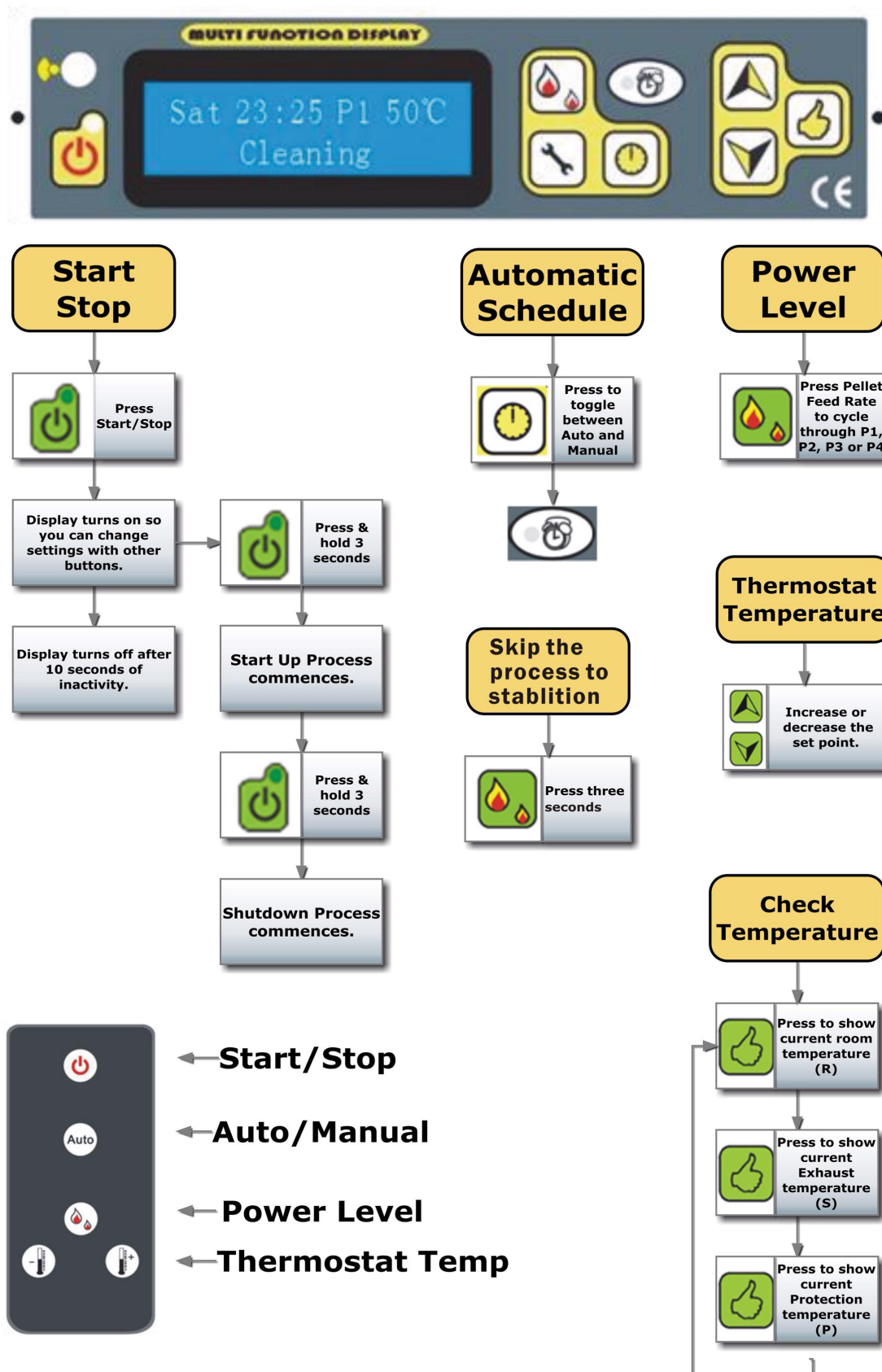
Put wood pellet fuel into the hopper, connect the power. Then On/Off Light is Lighting (It means that power is on). Operate as the instruction on section “start and operation”

Start and operation USERS GUIDE

Please operate the stove as following (refer to stove structure figure and electrical control figure):

Check the box, pellet grate bar, ash pan then adjust to proper position.

5.1 Operations Instructions - Quick reference guide



Switching on / switching off

The heater switching on and switching off is

performed through the ON/OFF key 

After switching on, the message, "CLEANING" will be shown on first, in order to clean the fire pot.



In the same way, push , then at the switching off Period, the message shows:



After the temperature in the stove is cold enough, finally, the phrase 'GOODBYE' is displayed.



The switching on Stage, which has the duration of about 5-15 minutes, are necessary to the resistance to carry the pellets at the switching on temperature, (depends from the heater). The switching on procedure is showed from a passage set showed in the display as previous one and then:



Thirdly, After second phase is showed from the message 'FEEDING'. In this phase are performed the chimney verification operations and the pellets will be loaded in the melting pot. The successive phase will be showed from the inscription "Lighting". This state remains up to when the smokes temperature doesn't exceed the planned threshold.

When the Lighting phase is finished, some minutes will spend necessary for the flame stabilization. This phase is showed from the message 'STABILIZATION' which finishes after some minutes going up at the work phase



!! ATTENTION !!

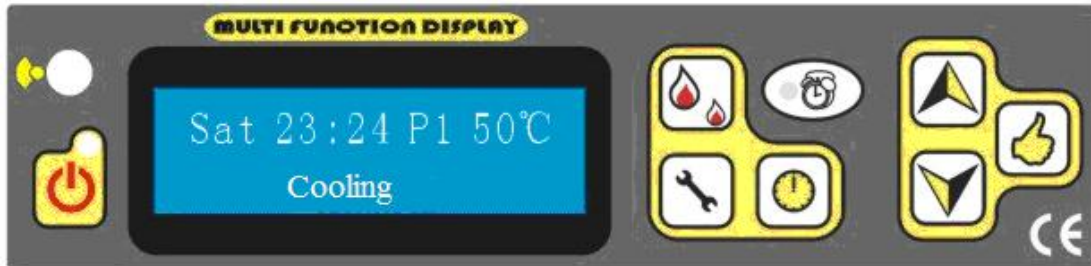
During the flame switching off phase and exchanger cooling, Normally it isn't allowed to switch on again the heater up to the operation end; this state is highlighted from the message 'SWITCHING OFF'

HOWEVER, It is possible to switch off the heater in every functioning phase. The switching off performs

pressing the key ON/OFF



for two seconds, **make sure the stove is under your eyes**, until its “Stabilisation”, After push the button, then the phrase "Cooling" comes



After the stove’s temperature falling down, the stove starts again, Cleaning-feeding-lighting-stabilization.

How to make the stove immediately skip the process to Stabilization During the first several stages when you think the flame is ok and/or the stove can work properly?

Push  for 3 seconds, and then it will turn on Stabilization directly.

!! ATTENTION !!

If the heater is switched off, the flame will continue to be present up to the fuel exhaustion contained in the melting pot, this phase will manage in automatic way both fans and it will have the duration up to 5-8 minutes.

The switching off phase is displayed from the message ‘SWITCHING OFF’ present up to the end of the operation.

Whether the heater is switched or not, on the display will display the hour, the power, and the planned set temperature.

Note: If the new stove, when its first time using, it is necessary to put a hand of pellet to the fire pot before hand.

Note: if the ignition is failure, the thermal control will shut off the stove automatically. Meanwhile, E2 (Error for the ignition failure), will be turned on the display, If want to restart it again, Please Check the stove as usually and cleaning the fire pot. After that, you have to push  to clean the Phrase E2. Follow the above process to ignite and start again.

FLAME POWER VARIATION

Depending on the heating desire, fuel intake quantity can be adjusted from few to large by the fuel intake Button. For example,



Pressing the key the feed quantity can be changed, the display shows the selected power.



MINIMUM POWER P4



LOW POWER P3



MEDIUM POWER P2



MAXIMUM POWER P1

ECO STAGE

If the room temperature exceeds the set out temperature, automatically the stove is stopped Eco1 or turns to minimum power in order to save energy Eco2, It shows like following:



After the room temperature drops down, and below the set out temperature (3degrees), it automatically, switching on again or come back to the previous Power level. Later how to select these two functions will be shown.

Automatic and manual SELECTING



Pressing the keys , The light shown on the following,



will be on/off.

If the light is on, it shows that automatic program is selected. Otherwise it is manual.

DESIRED TEMPERATURES SETTING

Pressing the keys



, on the display The temperature is selecting.

How to Check the Room temperature, Exhaust (Smoke) Temperature. Safety (Protection) Temperature which is located under the hopper.----- By Push button 

The number with “R” is the temperature for room.

The number with “S” is the temperature for the Smoke

The number with “P” is the temperature for the Protection.

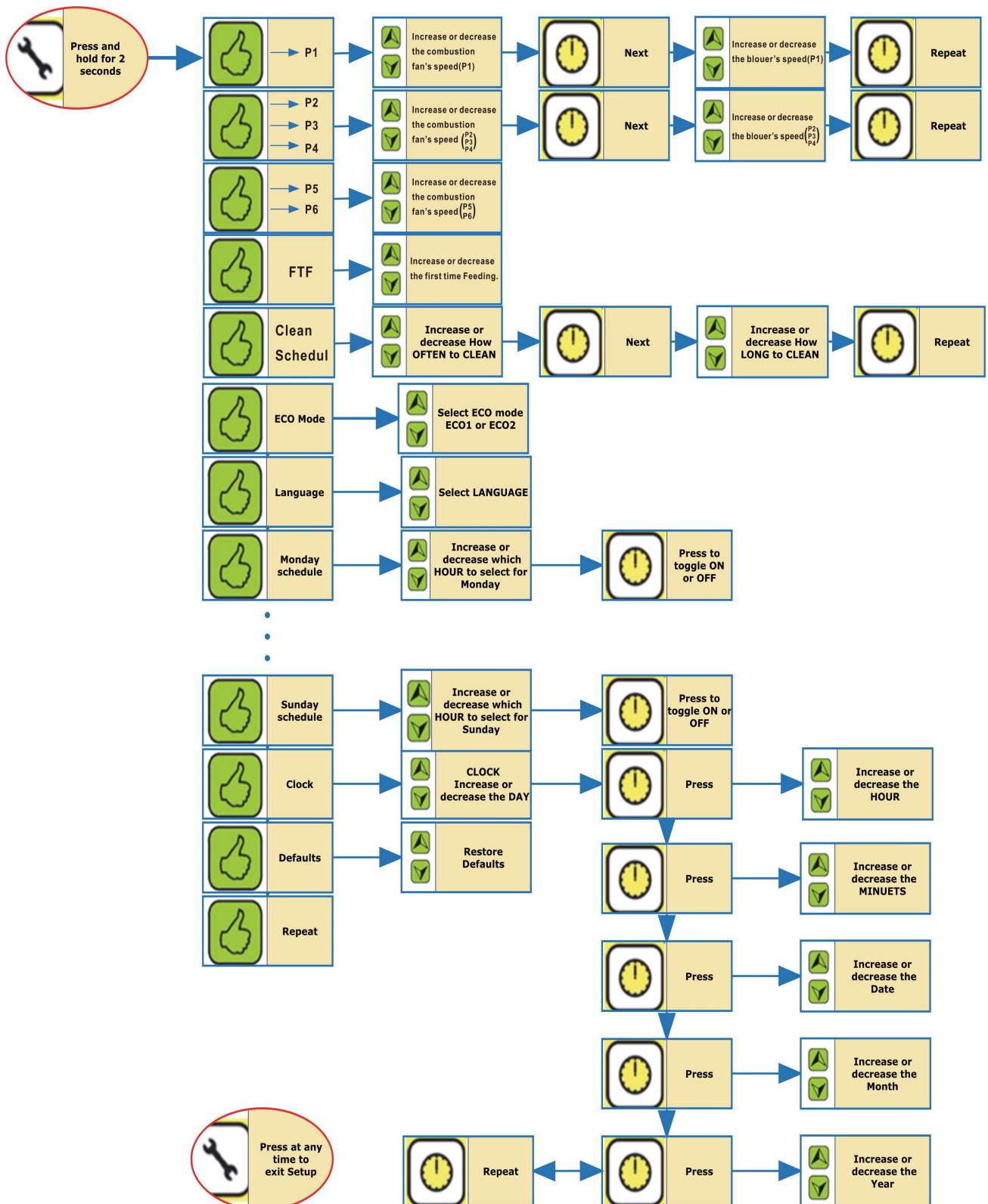
For example:



It means that the room temperature is 13 degree.

5.2 How to set details

Setup - Quick reference guide



Combustion fan's and blower's speed setting

Pressing the keys



up to 2 seconds, on the display shows:



S= SMOKE(EXHUAUST FAN) F=FAN(BLOWER)

By press



to move from “S 0” TO “F 0” ,



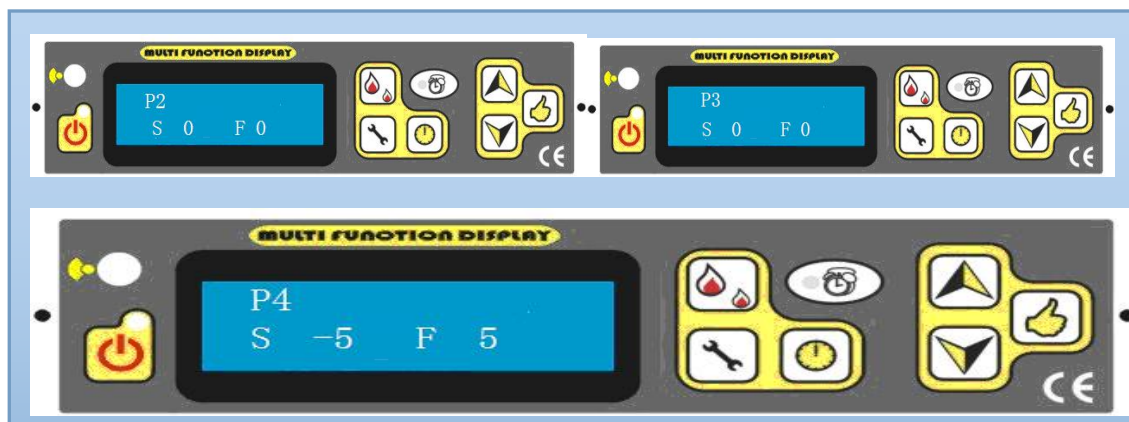
to adjust the speed of them.

Both of them can be adjust from 20 to -20. Normally, Factory setting is 0. 20 is max. and -20 is min.

Press



to save the setting and go to P2, and P3, and P4, as following:



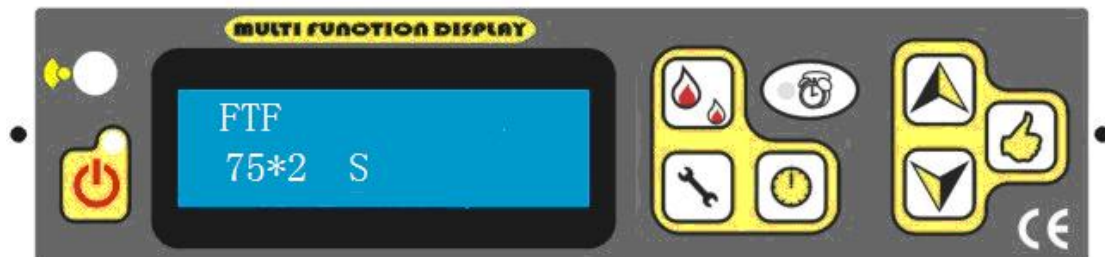
After P4, it is P5, this data is related to the exhaust fan's speed of the “Cleaning” stage. The adjustable range is also from 20 to -20

The following is P6; this data is related to the exhaust fan's speed of the “Feeding”, “Lighting” and some minutes of “Stabilization” stage. The adjustable range is also from 20 to -20



First time Feeding quantity setting

Keep Pressing , it shows:



FTF= FRIST TIME FEEDING

75*2 S MEANS 150 SECONDS' FEEDING TIME. You can adjust thee time by pressing



CLOCK SETTING

Press the key , the time can be amended:



You can select week or time by keys ,

also using  to change the day or time , to save the correct data by press 

 and move to next stage.

CLEANING SETTING

you can adjust the time of cleaning during the operation----- “every X mins, last Y” Seconds to cleaning the burning pot by the key 



For example every 30mins Last 15 seconds:



TIMER SETTING

Press the key  into next stage: On the display the following wording will appear



With this function you program the heater for a weekly programming, associating the switching on and the switching off at the pre fixed timetables. You can program daily switching on and switching off for the whole week.

By keeping pressing the key , you will found the attached instruction above,

Then you can press  to choose week days

By pressing  , to select hours, then press  to decide the hour on or Off.

On the above line it is showed the day which is programming, the hour with the functioning state.

On the below line the programmed hour are displayed.

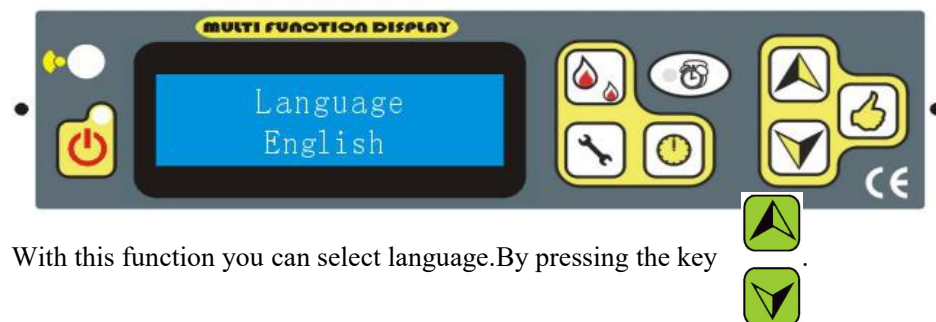
- Lower one means off, taller on means on, which also shows on superior line

LANGUAGE SETTING

By keeping pressing the key



it will appear the following words:



With this function you can select language. By pressing the key

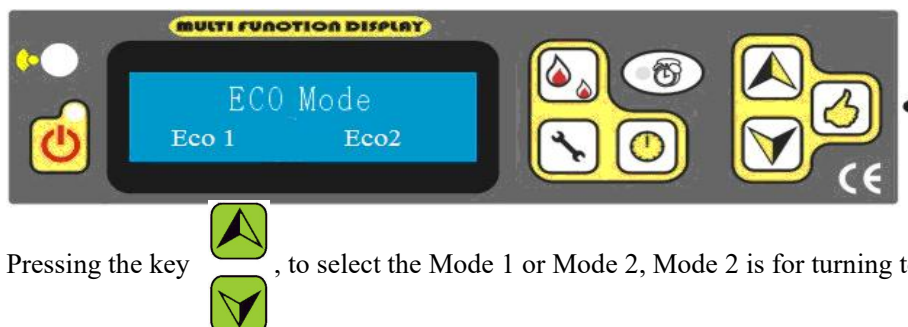


ECO mode SETTING

By keeping pressing the key



it will appear the following words:



Pressing the key



, to select the Mode 1 or Mode 2, Mode 2 is for turning to minimum

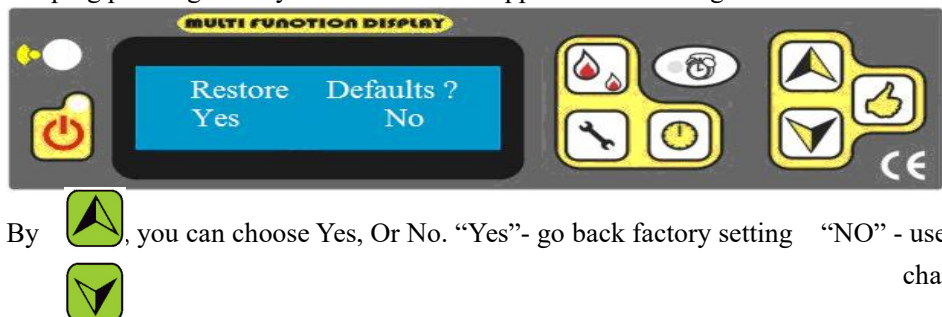
Power, while mode 1 is for stopping the stove.

Restore Defaults select

Keeping pressing the key



it will appear the following words



By



, you can choose Yes, Or No. "Yes"- go back factory setting "NO" - use the data you have changed.

Pressing the key



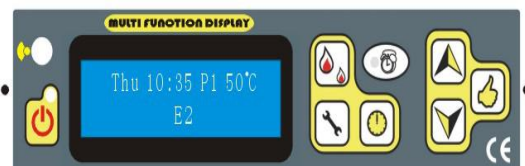
the programming will finish.

!! ATTENTION !!



It means fire put out automatically during the operation, when the exhaust gas temperature is below 40-45degree.

Such as: 1. There has no fuel at hopper.
2. Auger motor is broken and stop feeding the fuel.



It means Igniter failure at the beginning.

Such as: 1. there have clinkers in fire pot.

2. The fire pot has not put right.

3. The switch which is located beside the combustion fan to test the exhaust gas temperature sensor, is broken,

4. The igniter is broken



It means there is earthquake during the operation time. or You tilt the stove. Only for the Japan version



Problem for the temperature sensor.

Unplug or broken or water temperature is too high (This function only for the pellet stove with hot water)

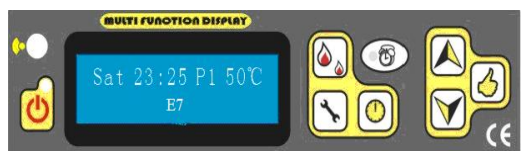


It means that there are some problems with vacuum Switch.

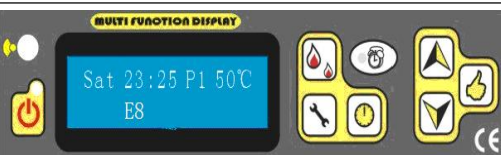
Such as door has not been closed properly;
Combustion fan's speed cannot Speed up;
There is some leakage about the stove or exhaust pipe is blocked and so on.



It means that the high temperature sensor, which is located below the hopper, has some problem, Such as: 1. the switch is broken,
2. The temperature is too high that the stove runs not properly



During the operation, the stove is interrupted by electronic cut.

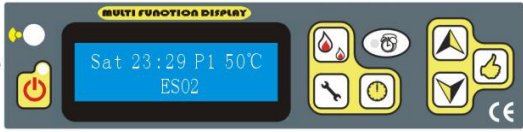
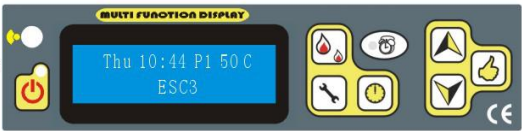


It means you need to cleaning the stoves.

If check everything is fine, you can press  to delete the Error code

!! ATTENTION !!

If showing following words when you start the stove, such as:

 It means temperature sensor 1(exhaust gas temperature sensor) is short-circuit.	 It means temperature sensor 1 is open-circuit.
 It means temperature sensor 2 (safety temperature sensor below the hopper)is short-circuit.	 It means temperature sensor 2 is open-circuit.
 It means temperature sensor 3(sensor for testing the room temperature, which is located on the rear panel) is short-circuit.	 It means temperature sensor 3 is open-circuit.

5.3 Safety

POWER FAILURE

After the power failure, the display will be show E7. If short power failure, you can do manually goes back to "Stabilization" by Clear the E7 by "okay button", restarting the stove and then keeping pressing 3 second of "fire button"

On power failure a small amount of smoke may be emitted. This does not last for more than three to five minutes and does not represent a safety risks.

POWER INPUT SOCKET (contains the main fuse)

ELECTRIC EXCESS-CURRENT SHUT OFF

The device is protected against excess current by a main fuse (on the rear of the device),

The following is a list of main components and their functions

IGNITER

The STOVE comes equipped with an automatic igniter for lighting the fuel when the stove is in feeding and lighting mode.

VACCUM SWITCH

The STOVE has a vacuum switch located behind the left door, fastened to the base. If a low pressure is created in the firebox by a leak, opening the front door, a blocked flue, or unsealed ash drawer(some model), the vacuum switch will sense it and cause the stove to go into a shutdown mode by showing E5.

AUGER AND AUGER MOTOR

The 2 RPM auger motor turns the auger, lifting pellets up the auger tube. The pellets are then dropped down a tube and into the firepot. The auger motor is controlled by the control board.

PROTECT TEMPERATURE SENSOR TO AVOID OVERHEATING

A safety temperature switch switches the stove off automatically if it overheats,. After the stove has cooled down meanwhile it shows E6. Whether the heating operation is continued or not depends on the remaining embers in the fire pan. After you remove the Error Code by "Okay button" , If re-ignition does not occur when the fuel supply recommences, then the out of operation program (cleaning , lag phase) is carried out. According to the pre-set mode the stove must be re-started.

CAUTION: If overheating has occurred then maintenance or cleaning work must be carried out.
--

EXHAUSTED TEMPERATURE SENSOR FUNCTION AS LOW TEMPERATURE

SWITCH OFF

If the stove cools down below a minimum temperature, then the stove will switch off. This switch off can also occur if pre-heating is too slow.

6. Cleaning and Maintenance

CAUTION: Only work on the stove when the mains plug has been removed from the socket.

During assembly do not drop any items (screws) etc. into the fuel container - they can block the conveyor auger and damage the stove.

Your stove must be switched off and have cooled down before work is carried out.

Not cleaning this unit will cause it to burn poorly and will void your stove's warranty.

The frequency with which your stove must be cleaned as well as the maintenance intervals depends on the fuel you use. High moisture contents, ash, dust and chips can more than double the necessary maintenance intervals. We would like to point out once again that you should only use tested and recommended wooden pellets as a fuel.

Operating handle

Your new pellet stove comes with an operating handle that is used for opening or closing the grate

door. Please use this operating handle for:

- Cleaning the fire pan; Loosening the pellets in the pellet container should they stick to the side walls;

Wood as a fertiliser

Wood mineral residue (approx. 1 -2%) remains in the combustion chamber as ash. This ash is natural product and is an excellent fertiliser for all plants in the garden. However the ash should be aged first and "quenched" with water

CAUTION: Embers may be hidden in the ash – empty only into metal containers.

CLEANING THE FIRE PAN



CAUTION: Clean fire pan daily.

Make absolutely certain that ash or clinker does not block the air feed openings. The fire pan can easily be cleaned inside the stove. After removing the pan the area underneath can be vacuumed clean.

If the stove is heated in continuous operation, then it must be switched off twice within 24 hours in order to clean the pan. (danger of flash back)

Caution: only in a cold state, when the embers are extinguished! Check the pan for correct seating.

Check that the pan is correctly seated.

CLEANING THE GRATE DOOR GLASS

The best way to clean the grate door glass is using A damp cloth with small amount of ash from the firebox. Stubborn dirt can be removed using a special cleaner that can be purchased from your specialist stove dealer.

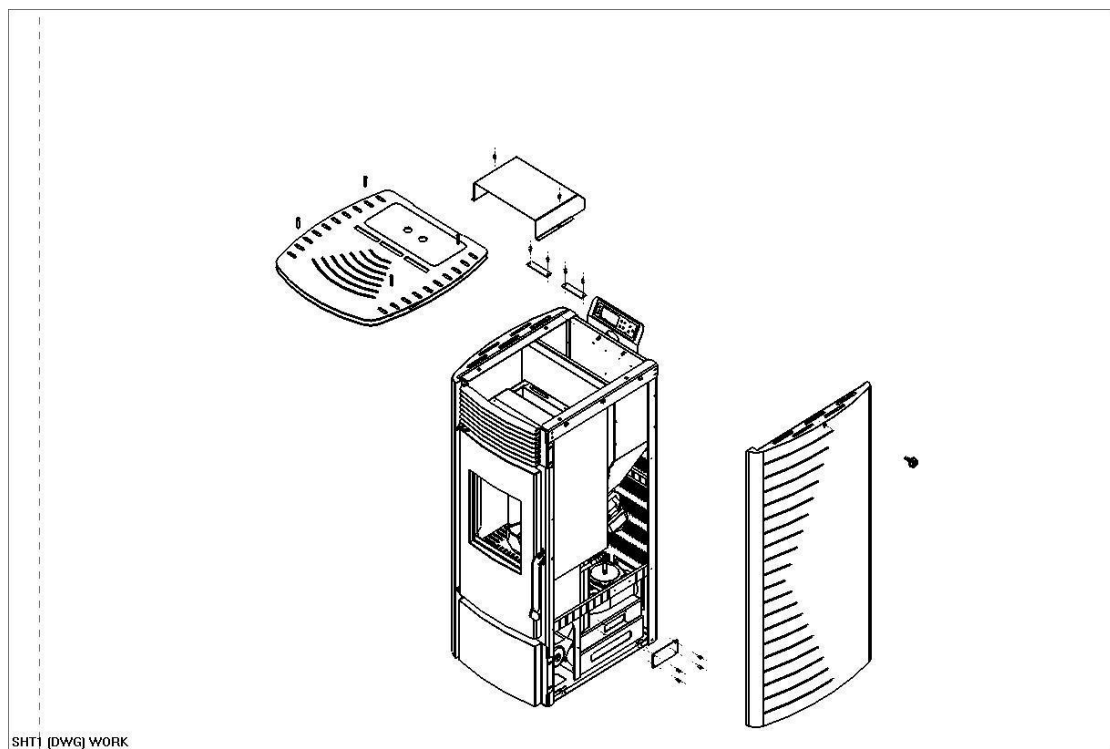
CLEANING THE FLUE GAS PASSAGEWAYS

Cleaning the flue passageways should be done at least once a year. Burning high ash pellets may require this cleaning to be done more often. Clean these passageways only when the stove and ash are cold do not start a fire in the vacuum cleaner by vacuuming up hot ash. On each side of the stove there are two access covers (see the picture as follows) that can be removed by unscrewing the two 5/32'' allen head screws. Insert a cleaning brush in the openings to loosen any ash buildup and use a vacuum cleaner to remove the loosed ash. Reinstall the covers when cleaning is complete. There are also two more access holes located behind the ash drawer.

Remove the ash drawer (see the previous page) and loosen the two 5/32'' allen head screws shown as D in the drawing below. Rotate the covers over the access holes and use a brush and vacuum to clean the ash. Rotate the covers back over the holes and tighten the screws. Front View

Looking into the Ash Drawer Cavity with the Ash Drawer Removed.

HOW TO CLEAN THE STOVE





CLEANING THE CONVECTION BLOWER

To clean the convention blower, Disconnect the stove power cord from the electrical outlet.

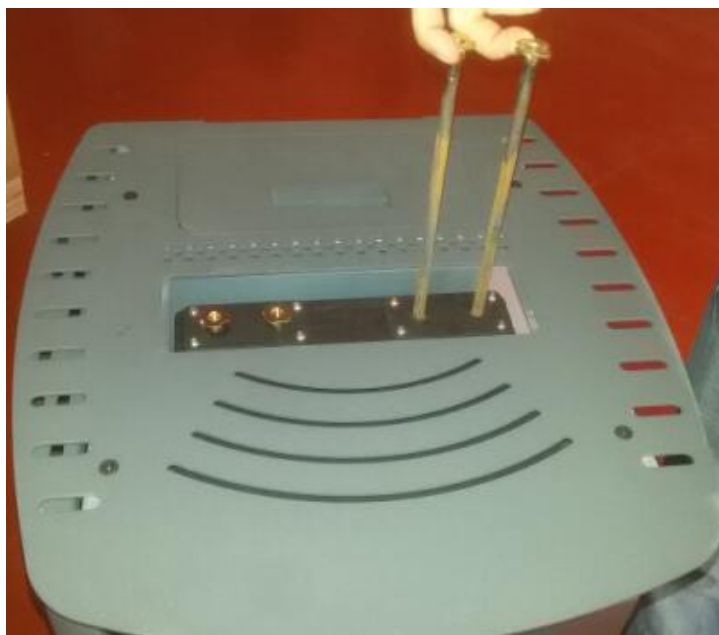
Remove the side panels and rear panel , you can find a cleaning cover , remove this cover and

cleaning the stove . A vacuum can be used to remove any dust accumulation on the blower's

blades or inside the blower duct. Caution should be used not to damage the blower's blades during

cleaning. It should be done at least every month .

THE TOP CLEANING PIPE



Some stove equipped with 4 cleaning pipe , those cleaning pipe can be used clean and scrape the

dust by pull and push .it should be done at least everyday before using .

CLEANING THE VENT PIPE

Soot and Fly ash: Formation and Need for Removal

The products of combustion will contain small particles of fly ash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as occurs during start up, shutdown, or incorrect operation of the room heater will lead to some soot formation which will collect in the exhaust venting system. The exhaust venting system should be inspected at least once every year to determine if cleaning is necessary. Sweep the pipe as needed. A tee and the cleanout in the vent system attached to the stove's flue collar will facilitate this cleaning.

Required Cleaning Schedule after Number of Bags Burned

Burn Pot=10 bags

Ash Drawer=50 bags

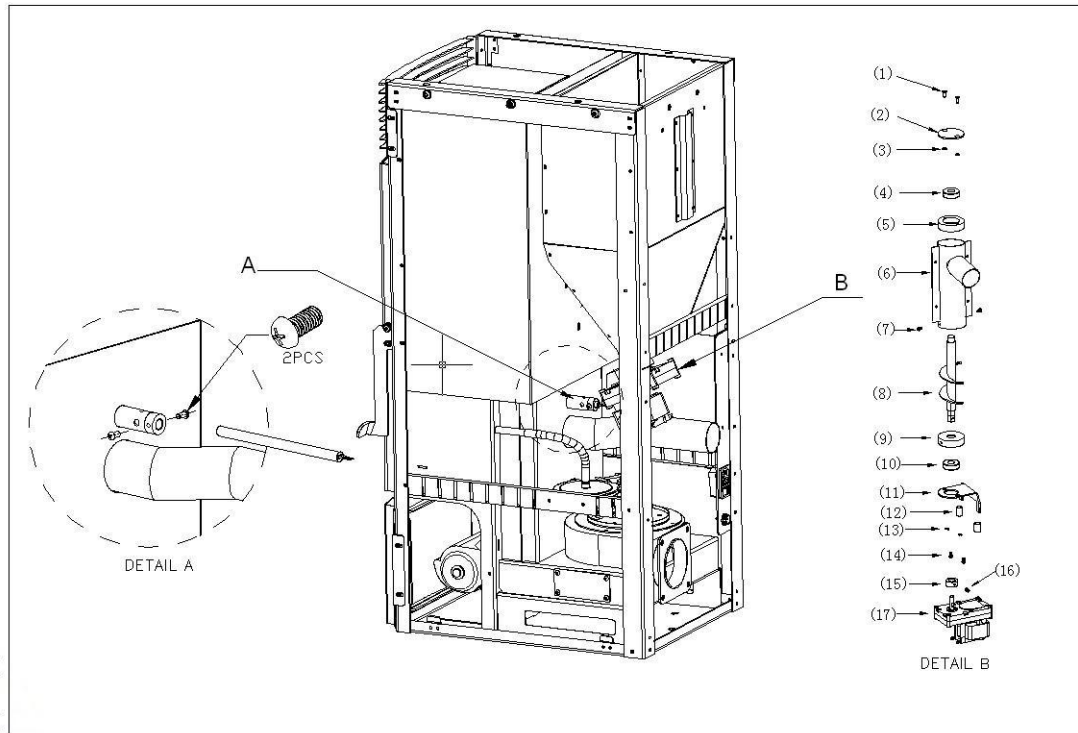
Flue Fan=100 bags

Blower=100 bags

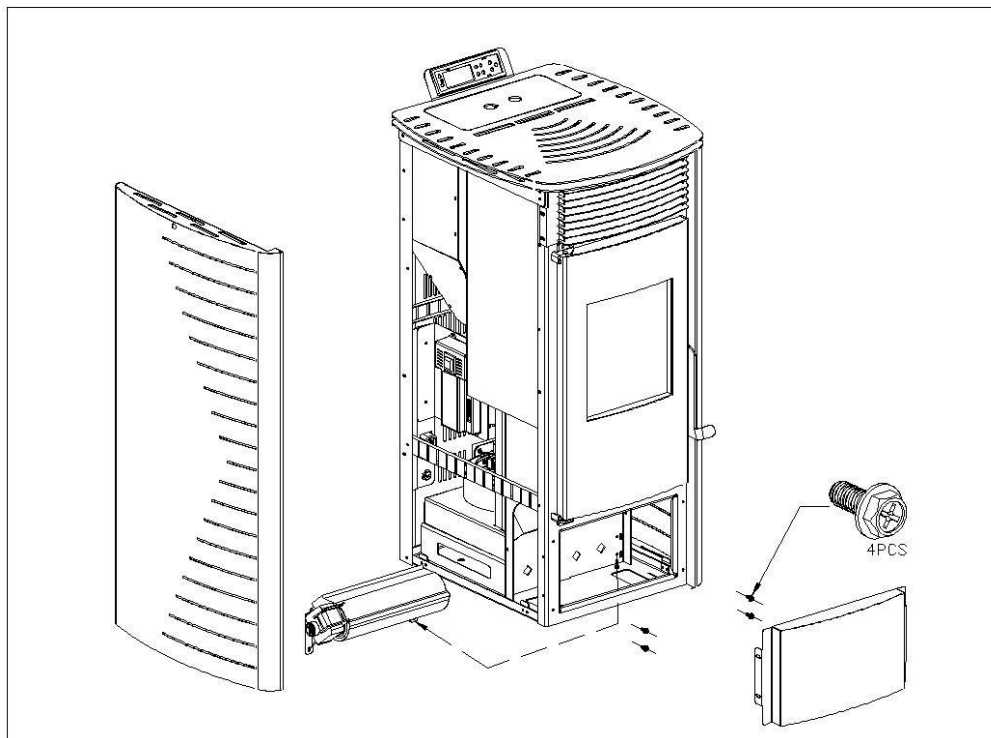
NOTE: Cleaning schedule will vary depending on quality of pellets used. Burned high ash pellets used. Burned high ash pellets will require more frequent cleaning

7. Troubleshooting

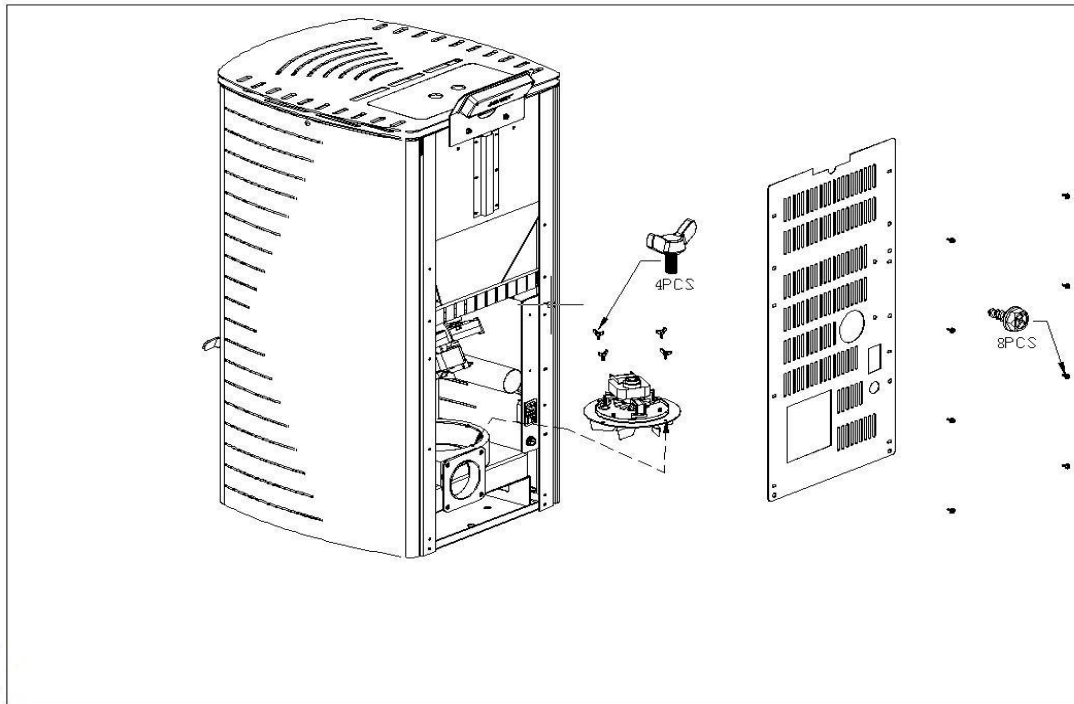
HOW TO REPLACE INGITION BAR AND AUGER SYSTEM



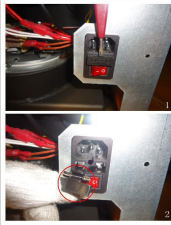
HOW TO REPLACE THE ROOM FAN(BLOWER)



HOW TO REPLACE THE COMBUSTION FAN



The general troubles, the possible reasons and the solutions are as following, after solving problems, start the stove again:

problems	reason	solution
1. The start light or display does not light when power is on	No power in stove or in the control panel.	Check the power and wires. 
	Fuse is broken	Replace the fuse 
2. The blower doesn't work after pressing the start bottom.	It is normal. It will start automatically when the temperature is above 30 degrees on the	Please wait

If after stabilization, it does work, there must be wrong	venting pipe.	
	No power in stove or in the control panel. Or Unplugged on the mother board The low temperature sensor is broken	Check the power and wires. Plug it Replace it
3. No feeding after 20 seconds of starting. There are three stages for the feeding process. One is during the several minutes, feeding is constantly. "Feeding" is showing on the LCD display Two is the following couple minutes, the feeding light is off.: "Light" showing on the Display The last stage is that feeding Every several seconds all the time after previous stages.		
A. For the first stage (during first several minutes)	Feed unit is blocked.	Check the auger is blocked or not.
	There is the problem about the connection between motor and auger	Check the fasten screw between auger and motor loose or not. Or the auger might jump out
	No fuel in the hopper.	Fill the fuel into the hopper.
B. For the second stage	It is normal	Please be patient
C. Regarding to the last stage	Feed unit is blocked.	Check the auger is blocked or not.
	There is the problem about the connection between motor and auger	Check the fasten screw between auger and motor loose or not. Or the auger might jump out
	No fuel in the hopper.	Fill the fuel into the hopper.
4. Feeding not properly A. too much wood pellet and cannot burned in time	The level of feeding speed is too high	Adjust the combustion fan's speed up or Feeding quantity

B. The fire is off due to little wood pellet can be burned	The level of feeding speed is too low	Adjust the combustion fan's speed Down or feeding quantity
5 After ignition the power is off 15min later.	Pellet feeder unit is off or pellet is too little. 30°C temperature switch breaks or the connection wires of switch loose. Pressure Switch is broken in the stove	Check the pellet feeder unit and restart. Check the connection wires or change the 30°C temperature switch. Replace or repair the device
6 orange and lazy fire, piled pellet, carbon on the glass	Lack of air intake for burning.	Clean the block in gate bar. Check the door and window glass gasket sealed or not. Check the air intake pipe and venting pipe blocked or not, and clean it. Change to the big diameter pipes if pipes are too long to affect combustion. Adjust the combustion fan's speed up Call the dealer to reset the program
7 The fire put out and power is off automatically.	The hopper is empty. No fuel feed. The fuel feed is too little. low temperature switch (30°C) is wrong. Set temperature is reached	Put fuel into the hopper. refer to (2) Lower the speed of combustion fan Cool the stove at least 1 hour then operate again or change the low temperature switch (30°C). "ECO" its normal, waiting, after the temperature is blow set on, it will automatically switch on again
8 The blower still works	The low temperature	Change this switch.

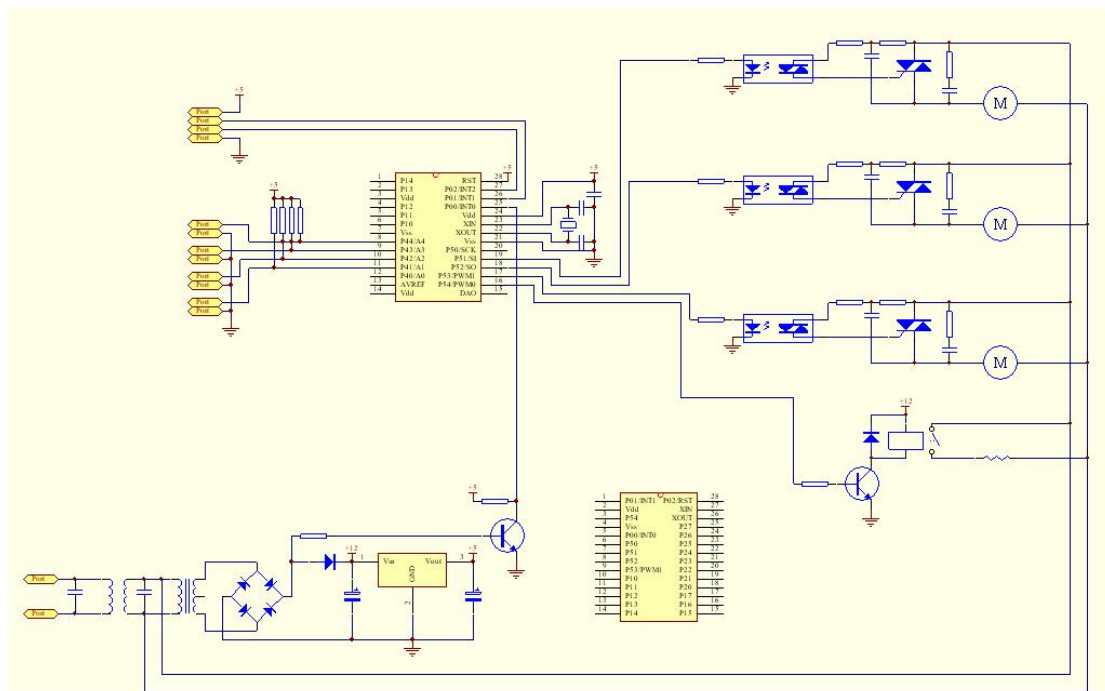
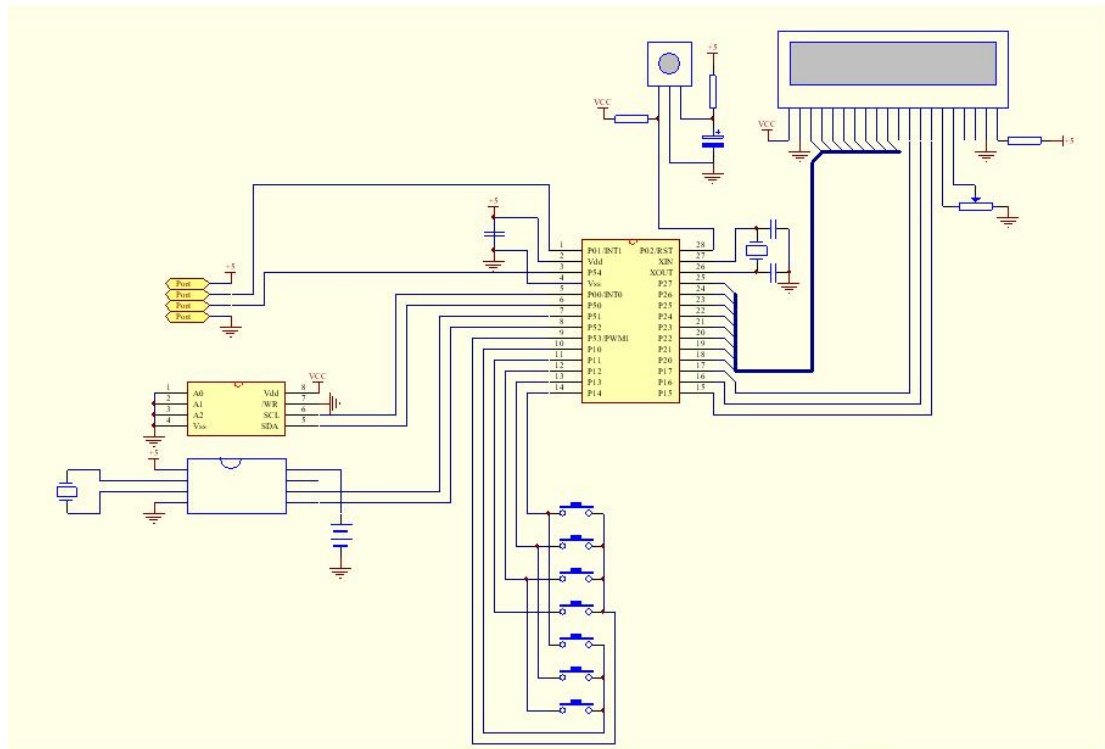
after the stove is cool and fuel feed stops.	switch (30°C) is broken.	
9 no enough heat wind	Unqualified fuel Blower speed is too low or not running. Heat exchange tubes or flue pass are dirty.	Use the standard specially pellet. Change the blower(Broken) or the mother board is broken Clean the heat exchange tubes or flue pass.
10. Showing "E5" on the display	Vent pipe is blocked The door is opening or seal needs to be replaced The are some leakages	Shut down the stove, check the venting pipe Close the door or change the seal Check it and repair it. Adjust the combustion fan's speed up to offer more pressure in the stove

ELECTRICAL GENERATOR OPERATION

Your stove can be powered with a gas driven electrical generator.

However, the generator's electrical regulator may not be compatible with the stove's electronics. The higher the quality of the generator, the greater the chance that it is compatible with the stove.

8. Electronic Plan



9. Warranty

Your pellet stove is warranted to be free of defects in materials and workmanship for 1 year since the date of purchase (based on the receipt/ invoice/ order records from any retail shop, amazon, ebay or other sales channel).

In the event of a defect under this warranty, we will, at our option, repair or replace the product at no cost. This warranty does not cover damages caused by misuse and improper handling.

These warranty conditions apply to America, Austria, Germany and Switzerland.

For the purpose of timely damage limitation, the warranty claim on the part of the claimant is to be enforced at the GRACE dealer in writing using the invoice and stating the purchase date, model name, serial number and reason for complaint.

1 years on the welded stove body. The warranty only covers defects in materials and workmanship as well as delivery of spare parts free of charge. Labor and travel times are not included in the manufacturer's warranty.

Only use spare parts recommended or supplied by the manufacturer. Loss of warranty on nonobservance!

The precondition for the warranty is that the stove has been installed and commissioned properly according to the Instructions for Use valid at the time of purchase. Connection must be performed by a specialist for such stoves.

The warranty excludes WEARING PARTS such as glass, coating, surface coatings (e.g. handles, panels), seals, fire trough, grates, draught plates, deflector plates, combustion chamber liners (e.g. fireclay), ceramics, natural stone, ignition elements, sensors, combustion chamber sensors and temperature controller.

Damage arising from non-observance of the manufacturer's instructions for operation of the unit is also excluded (e.g. overheating, use of nonapproved fuels, incorrect intervention in the stove, electrical excess voltage, a chimney draught set incorrectly for the stove, non-performance or deficient maintenance and cleaning, incorrect operation by the user or third parties, etc.) or caused by such.

Any costs incurred by the manufacturer due to unjustified warranty claims are to be charged to the claimant.

THE WARRANTY DOES NOT AFFECT THE STATUTORY WARRANTY ROVISIONS.