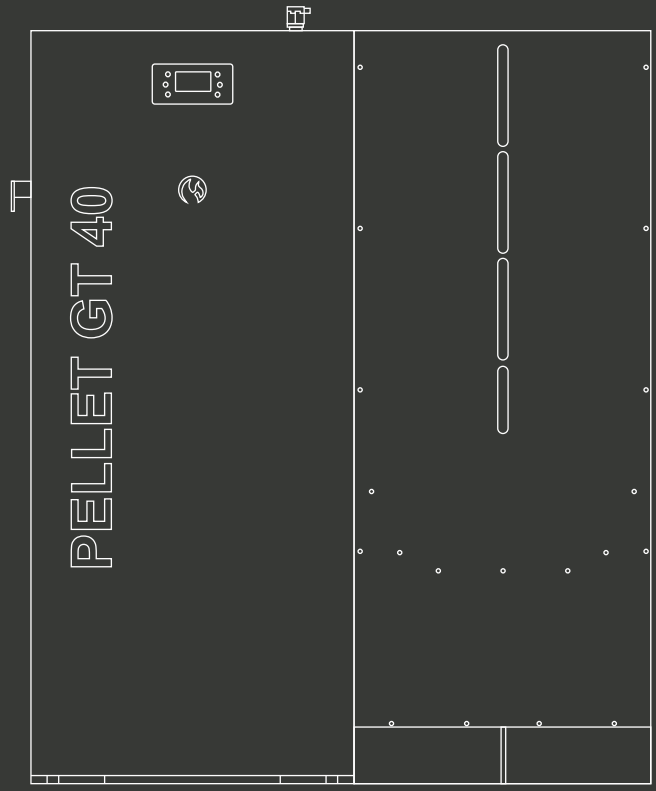

GT 40 - GT 60
Plus Plus

PELLET BOILER

USER GUIDE

İFYIL TERMO İKLİMLENDİRME SAN. ve TİC. LTD. ŞTİ.

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CONTENTS

INTRODUCTION

Dear Friend of İFYIL;

İFYIL TERMO İKLİMLENDİRME SAN. Ve TİC. LTD. ŞTİ. we manufacture the most efficient hydro pellet boiler with utmost care for our distinguished customers. So, please read this userguide carefully before starting to use our boiler and keep it as a reference in any case.

This user guide;

- GT 40 Plus
- GT 60 Plus Includes products.

Information

This symbol highlightens the significant details for correct usage of boilers. If the warnings are ignored, product will not be fully correct&regular and this can cause customer unsatisfaction.

Attention

This symbol highlightens the possible serious risks during operation of boiler. So this userguide should be read carefully before using the boiler and utmost attention should be paid to the warnings

** Combustion chamber / combustion pot
** Pellet feeder motor / fuel supply motor
These side-by-side expressions have the same meanings.

1- IMPORTANT NOTICE

- Read the operating instructions carefully before using the product.
- Installation should be done according to the legislation of the country where the product will be established.
- This is a pellet boiler, so, please only use wood pellet as fuel.
- Please do not put water on the boiler during operation.
- Pay attention to the operating pressure of the pellet boiler. The operating pressure of the pellet boiler must not exceed the maximum permissible operating pressure given on the identification plate.
- Do not plug off while operating, please initially switch off, this operation is very vital for the cooling and efficency of the boiler.
- It is necessary to use defined fuel in order not to damage the electronic and mechanical parts working in the device.
- Installation, electrical connection, function test and maintenance must only be carried out by authorised and qualified personnel.
- Any change on the boiler should be done by authorized person or company.
- A bad use or improper maintainance of the product can bring to problem in the combustion chamber.
- Only spares parts adviced by producer should be used.
- Please do not operate the boiler before cleaning the combustion pot.
- This product should be used by adult people.
- If there is a fire in the flue pipe, extinguish the boiler, disconnect it from the power supply and never open the door. Then contact the competent authorities.
- Install the product in a location that does not present a fire hazard and is equipped with power and air supplies and smoke extractors.
- In the event of a malfunction with the ignition system, do not force it to light by using flammable materials.
- Disconnect the product from the 230V power supply before performing any maintenance operation.
- If the product is not working properly, please turn it off. Contact an authorized service.
- Check the smoke outlet channels periodically.
- Frost protection measures must be taken.
- It is recommended to use antifreeze against the lowest temperature measured in the area where the boiler is installed against freezing.
- To prevent freezing, the boiler room temperature should be kept above +10 oC

.

- The product should only be used as intended. Different uses cause hazards.
- Do not open the covers and sections where the electrical equipment is located, without disrupting the main energy of the system.
- Do not touch the wet hand as the product is an electrical appliance. Switch off the power when any action is required.
- The boiler must not be operated if the combustion chamber and the ash chamber door are open or the sight glass is broken.
- Avoid direct contact with hot surfaces.
- Do not insert your hand into the pellet tank and the combustion chamber while the boiler is operating
- Never install the boiler in environments with flammable, explosive, combustible gases and material
- Periodically check the smoke outlet ducts for blockage.
- Pellet boilers should not be installed in the living area. Should not wait a long time in the place where the boiler works.
- İfyıl Boilers shall not be installed in open areas, damp areas, environments in direct contact with external environment.
- Should not do any operation to flue pipe and / or water pipe when boiler operating.
- Prevent to flow by creating pressure systems should not be used to In chimney channels and water installation.
- Please comply with these rules if there are local rules or norms for the solid fuel chimney according to country regulations. If there are no local norms, comply to EN 13384-1.
- These boilers cannot be used directly as drinking water or as a sanitary hot water kettle. For this type of use, a suitable heat exchanger must be installed.

1-2 Operating Instructions

- Installation of pellet stoves, fireplaces and boiler systems; should be done in accordance with electrical connections and installation diagram
- The heat requirement of the place to be heated should be checked and the appropriate boiler should be selected.
- Power supply should be used during long-term power outages.
- Automatic air prufier must be in the system.
- When the boiler is process of fire on, do not open the ash purge cover.
- You don’t put the any materials (foreign materials) in the fuel tank.

- Our company does not accept any responsibility for problems due to installation of the boiler in unsuitable places.
- If using room thermostat, it should be placed at least 1,5 m from the floor. It should not be placed where the temperature changes continuously and heat loss is observed.
- The place where boiler must be equipped with:

oElectrical power 230V 50Hz.
oGrounding plug.
oIf there is no ground connection it should be provided immediately.
oFresh air must be provided from outside.
oPlease, use the Voltage regulator for voltage fluctutaion.

- Burning pot, ash box and air inlets should be cleaned.
- Boiler and chimney connector must be connected to an existing chimney or an external double-walled chimney. Pipe inner diameter must be 130 mm.
- Pellet boiler must be installed as close as possible to the chimney. (Chimney connection must be shorter.)
- Boiler is not suitable for a shared chimney system.
- Our company is not responsible for any problems that may arise from the use of chimneys that are not in compliance with chimney pipe standards.
- The product is out of warranty if an anti condenser kit is not used.
- Fuel loading must be performed from the test menu to the fuel tank from the helix to the pot at the first start.
- The pellets should not be handed into the combustion pot by hand.
- The boiler should not be washed with water.
- Due to the obstruction of the pot holes, abnormal gases may be formed and combustion may be delayed.
- Do not use air ducts that do not comply with the installation requirements.
- Choke clogged due to lack of maintenance makes it difficult to ignite.
- The maximum fuel filling height recommended for the fuel tank of the boiler is 5 cm below the top level of the tank.
- Improper installation, use and insufficient maintenance will cause an increase in malfunctions.

• If the ignition has not occurred, the boiler must be switched off and the combustion chamber cleaned and re-ignited.
• The product should be stored in a dry place and not exposed to unfavorable weather conditions.
• The lime layer that can be formed in the water parts of the boiler decreases the boiler efficiency and causes the boiler to overheat. Therefore, necessary precautions should be taken against lime.

Customers not obeying the above requirements and schemas cannot claim any right for any problem. In any case, contact your dealer or IFYIL.

2- SAFETY DEVICES

- On-Off Switch
- Closed Expansion Tank
- Smoke Temparature Sensor
- Fuel Tank Over Temparature Sensor
- Boiler Body Temparature Sensor
- Boiler Safety Thermostat
- Smoke Pressure Switch
- Safety Valve
- Automatic Aır Prufier

3- FUEL SPECIFICATION

Wood pellets are manufactured by hot-extruding compressed sawdust which is produced during the working of natural dried wood. The compactness of the material comes from the lignin which is contained in the wood itself, and allows the production of pellets without the use of glues or binders. Depending on the wood varieties and mixtures, the pellet varies.

Wood pellet fuel with quality ENplus-A1 + A2 should be used.

Definitions	ENplus A-1	ENplus A-2
Diameter	6 mm	6 mm
Lenght	≤ 30 mm	≤ 30 mm
Net Calorific Value	≥ 16,5 MJ/kg ≥ 3941 kcal/kg	≥ 16,5 MJ/kg ≥ 3941 kcal/kg
Moisture content	≤ %10	≤ %10
Ash Content	≤ %0,7	≤ %1,2
Density	750 ≥ BD ≥ 600 kg/m3	750 ≥ BD ≥ 600 kg/m3

Storage of pellet fuel;

Pellets should be kept in the dry, not too cold area. Care should be taken to store and transport pellet bags. Pellet fuel breakage should be avoided.

Dear Consumer;

In case of using pellets with chemical substances such as MDF and chipboard, your product will be out of warranty as the device may be damaged.
Defined fuel must be used in order to prevent damage to the electronic and mechanical parts running inside the device.

4- TECHNICAL SPECIFICATIONS

This device should be installed in accordance with the related regulation and EU standards.

* EN 303-5 Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW- Terminology, requirements, testing and marking
* 2006 / 42 / AT- Machinery Directive

TECHNICAL DOCUMENTATION FOR SOLID FUEL BOILERS ACCORDING TO REGULATION EU 2015/1189 AND 2015/1187

Description: Solid fuel boiler fired by wood pellets

Fuel Description: Ø 6 / L:30 EN Plus AI-A2 wood pellets

Harmonized Standart: EN 303-5 Class 5

İFYIL - GT 40

Stoking mode: Automatic: It is recommended that the boiler be operated with a hot water storage tank of a volume of at least 1200 (**) litre

Condensing boiler: NO

Solid fuel cogeneration boiler: NO **Combination boiler: NO**

Fuel	Preferred fuel (only one):	Other suitable fuel (s):	η_s (%x):	Seasonal space heating emissions (****)			
				PM	OGC	CO	NOx
				%10 O2'de (x) mg/Nm3			
Compressed wood in the form of pellets or briquettes	**YES**	**NO**	**83,1**	**18**	**8**	**166**	**191**

Characteristics when operating with the preferred fuel only:

Seasonal space heating energy efficency η_s [%]: **83,1**

Energy efficiency index EEI: **122**

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Useful heat output				**Useful efficiency**			
At rated heat output	P_n (***)	**41**	kW	At rated heat output	η_n	**85,64**	%
At [30 %/50 %] of rated heat output, if applicable	P_p	**12**	kW	At [30 %/50 0/0] of rated heat output, if applicable	η_p	**86,66**	%
For solid fuel cogeneration boilers: Electrical efficiency				**Auxiliary electricity consumption**			
				At rated heat output	el_{max}	**0,048**	kW
At rated heat output	$\eta_{el,n}$	**N.A.**	%	At [30 %/50 0/0] of rated heat output, if applicable	el_{min}	**0,018**	kW
				Of incorporated secondary emission abatement equipment, if applicable		**N.A.**	kW
				In standby mode	P_{SB}	**0,007**	kW

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Kavak OSB 3. Cad. No: 11 Kavak/Samsun/TURKEY

(**) Tank volume = 20 x Pr with Prindicated in kW
***) For the preferred fuel Pn equals Pr
(****) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NOX = nitrogen oxides

Issue date : 15.10.2021

General Manager

Harun Reşit ÖZER

TECHNICAL DOCUMENTATION FOR SOLID FUEL BOILERS ACCORDING TO REGULATION EU 2015/1189 AND 2015/1187

Description: Solid fuel boiler fired by wood pellets

Fuel Description: Ø 6 / L:30 EN Plus A1-A2 wood pellets

Harmonized Standart: EN 303-5 Class 5

İFYIL - GT 60

Stoking mode: Automatic: It is recommended that the boiler be operated with a hot water storage tank of a volume of at least 1200 (**) litre

Condensing boiler: NO

Solid fuel cogeneration boiler: NO **Combination boiler: NO**

Fuel	Preferred fuel (only one):	Other suitable fuel (s):	η_s (%x):	Seasonal space heating emissions (****)			
				PM	OGC	CO	NOx
				%10 O2'de (x) mg/Nm3			
Compressed wood in the form of pellets or briquettes	**YES**	**NO**	**85**	**18**	**9**	**190**	**195**

Characteristics when operating with the preferred fuel only:

Seasonal space heating energy efficency η_s [%]: **85**

Energy efficiency index EEI: **124**

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Useful heat output				**Useful efficiency**			
At rated heat output	P_n (***)	**62,4**	kW	At rated heat output	η_n	**86,7**	%
At [30 %/50 %] of rated heat output, if applicable	P_p	**18,1**	kW	At [30 %/50 0/0] of rated heat output, if applicable	η_p	**87,6**	%
For solid fuel cogeneration boilers: Electrical efficiency				**Auxiliary electricity consumption**			
				At rated heat output	el_{max}	**0,048**	kW
At rated heat output	$\eta_{el,n}$	**N.A.**	%	At [30 %/50 0/0] of rated heat output, if applicable	el_{min}	**0,018**	kW
				Of incorporated secondary emission abatement equipment, if applicable		**N.A.**	kW
				In standby mode	P_{SB}	**0,007**	kW

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(**) Tank volume = 20 x Pr with Prindicated in kW
***) For the preferred fuel Pn equals Pr
(****) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NOX = nitrogen oxides

Issue date : 15.10.2021

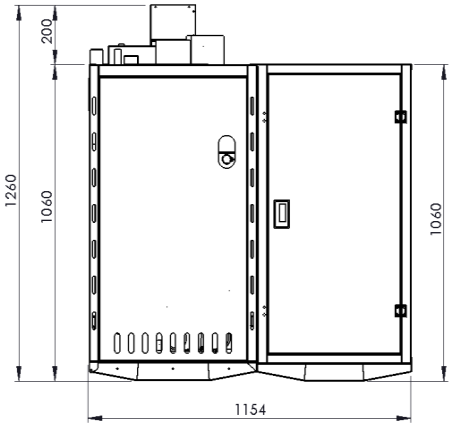
General Manager

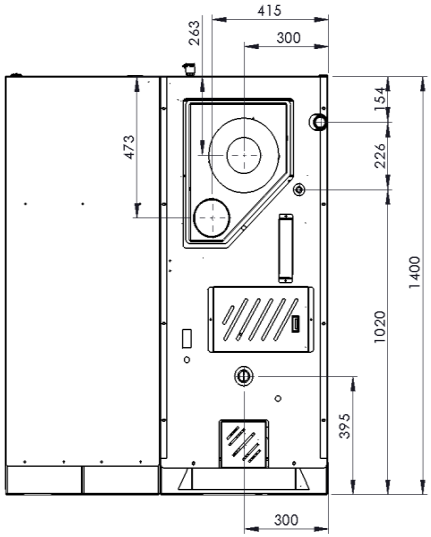
Harun Reşit ÖZER

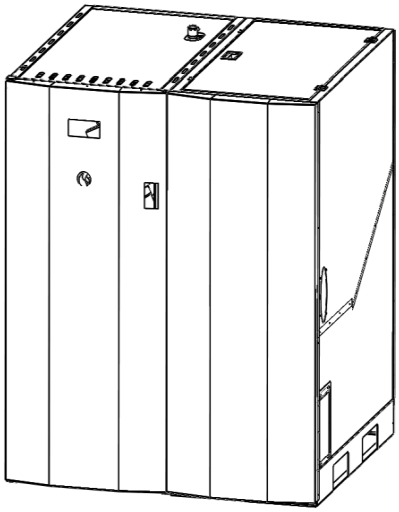
Technical Specifications			Measured Values	
			GT 40 Plus	GT 60 Plus
Fuel consumption (Min.-Maks.)		kg/h	2,7-9,35	4,2-14
Permissible operating T.	Maksimum	°C	80	
	Minimum	°C	65	
maximum operating pressure		bar	3	
Test pressure		bar	4,5	
Boiler Water Volume		L	95	150
Recommented flue pipe draft		Pa	12 ± 2	
Fuel tank capacity		kg-lt	253-420	340-567
Weight	Boiler	kg	310	424
	Fuel Tank		100	107
Dimensions (WxDxH)	Boiler	mm	600x1260x1400	600x1340x1400
	Fuel Tank		554x1060x1400	554x1140x1400
Connection	Water round-trip connections	inç	1 1/4	
	Burning air input connection	mm	Ø63,5	
	Chimney connection	mm	Ø130	
Electric consumption		W	260	
Electric connection		Vac/Hz	230/50	
Chimney gas T.	Nominal heat O.	°C	122,95	115
	Minimum heat O.	°C	77,55	67,44

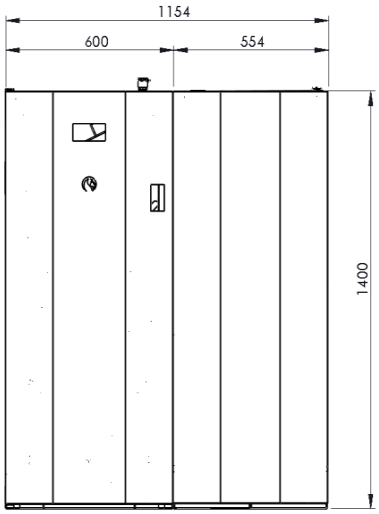
5- MAIN PARTS AND DIAMENSIONS

5-1 GT 40 Plus Diamensions

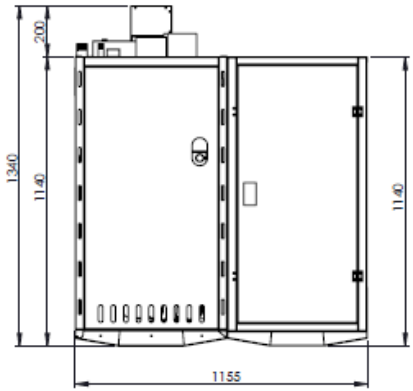


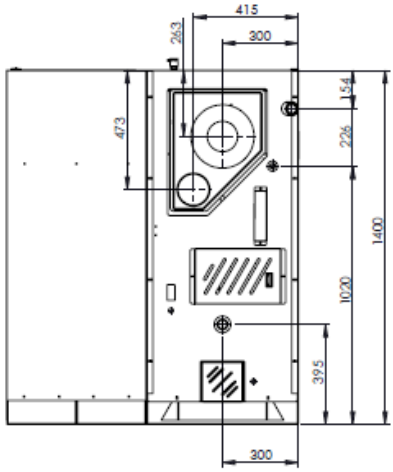


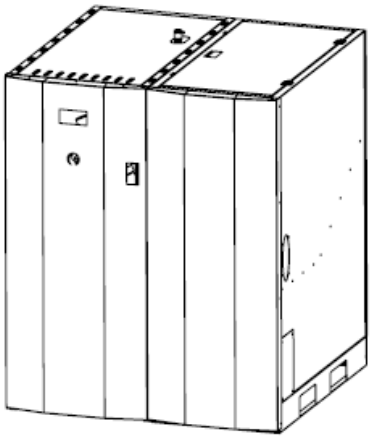


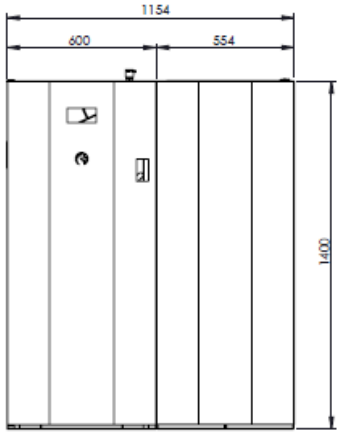


5-2 GT 60 Plus diamensions

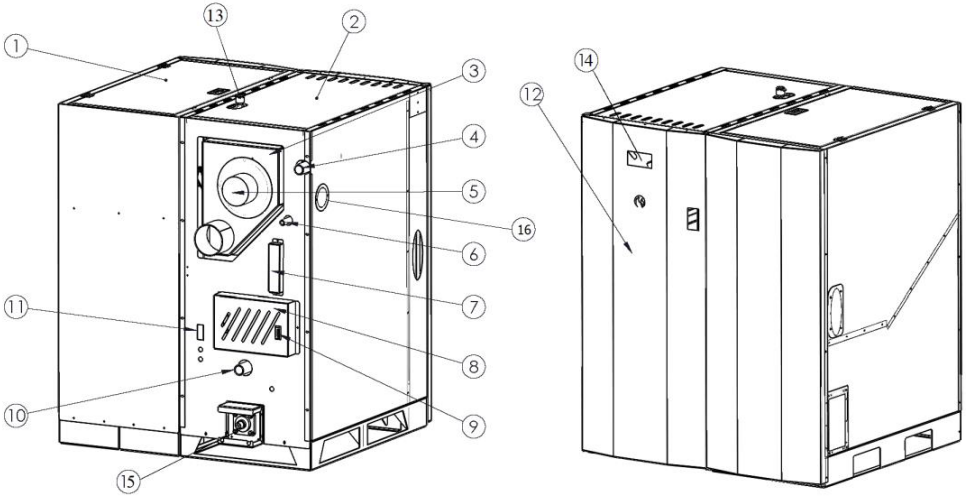








5-3 GT 40-60 Plus Parts

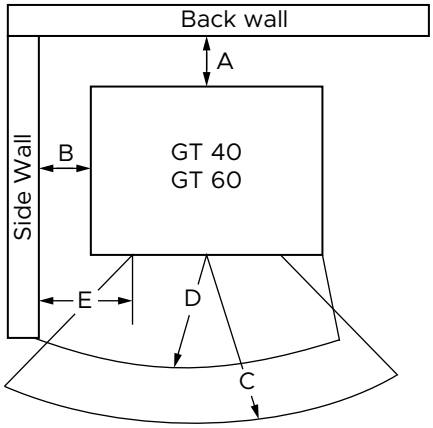


NO	Definition
1	Fuel Tank Cover
2	Boiler Top Cover
3	Chimney Fan Box
4	Boiler Hot Water Outlet
5	Chimney Fan
6	Safety Valve / Manometer Connection
7	Terminal Box
8	Mainboard Intervention Cover
9	Time Relay
10	Boiler Cold Water Inlet
11	On/Off
12	Boiler Front Cover
13	Air Vent
14	Control Panel
15	Automatic Turbulator/Ash Cleaning Motor
16	Automatic Turbulator Cleaning Handle Connection

6- INSTALLATION

6-1 Operating Environment

- If the boiler is placed on a flammable floor, appropriate insulation measures must be taken.
- If the boiler is placed close to the flammable walls, the wall must be insulated.
- The place where the device is to be placed should bear the weight of your device and ensure that the static conditions are appropriate.
- Flammable products must be kept at a safe distance from the risk of fire.
- Install the product in locations equipped with fire risk.
- The product should be placed so that it can provide the air required its for combustion. (It must be installed in a safe distance for air circulation.)
- The room volume 30 m^3 shall not be less than.
- To prevent freezing, the boiler room temperature should be kept above +10 oC.



A: ≥ 600 mm

B: ≥ 600 mm

C: ≥ 1100 mm (radiation arena)

D: ≥ 1000 mm

E: ≥ 600 mm

Figure 6.1 Safe Minimum Distance

It is recommended to have a fire extinguisher in order to prevent a fire.

6-2 Electrical Connections

First insert the power cable into the back of the boiler, then insert the cable outlet. Opening the back of the boiler on / off switch to turn on your boiler, bringing the open position.

A voltage regulator using is required in areas with voltage irregularities. Electronic and electronic card failures due to voltage fluctuations are not covered by the warranty.

O : Close
| : Open

Recommended specifications for the voltage regulator: Automatic voltage regulator with 2 Kva relay 135-265 V
Recommended specifications for power supply: 2 Kva

Use your boiler and running in a socket with ground.

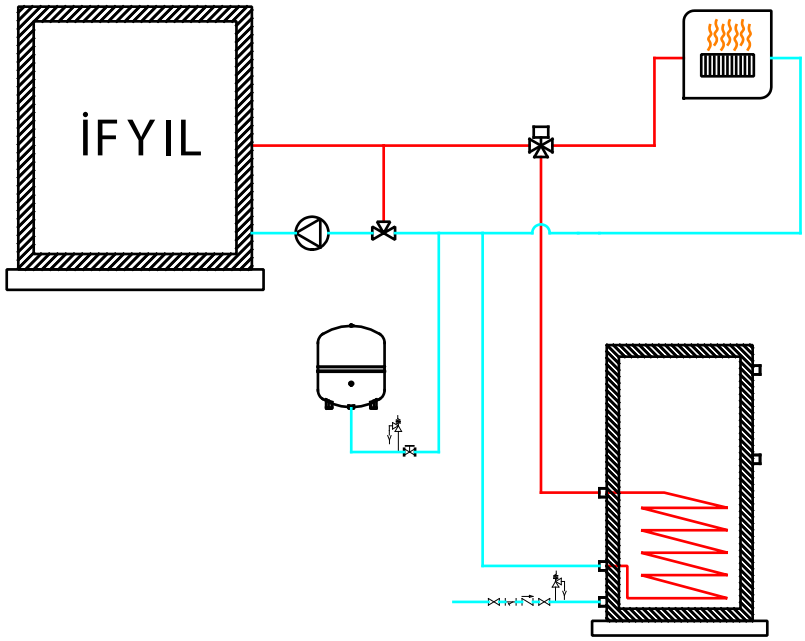
6-3 Plumbing Schema

- 120 cm and longer radiator must be connected to the installation with a reverse connection.
- Hydro boiler's connections must be made with conical iron union.
- Installation should be with fill and drain valve in definitely.
- Safety valve should be installed to connection place on boiler body.
- Safety valves outs must be in the discharge.
- Boiler lit (off) the water pressure should be in the range of 1-1,5 bar. Otherwise drain / refill valve should be checked.
- It is recommended to install a thermostatic valve in the radiators to ensure that the room temperature can be kept to the desired degree and to provide high comfort at low cost.
- Hot water circulation pump, Bridge valve, Mixing valve shall be supplied by the user. The TS 1258 "Rules for Calculation for Installation Water Supply on Building" Standard must be observed in the selection of these equipment.
- Hot water output / Cold water inlet pipes are be minimum 1 ¼".

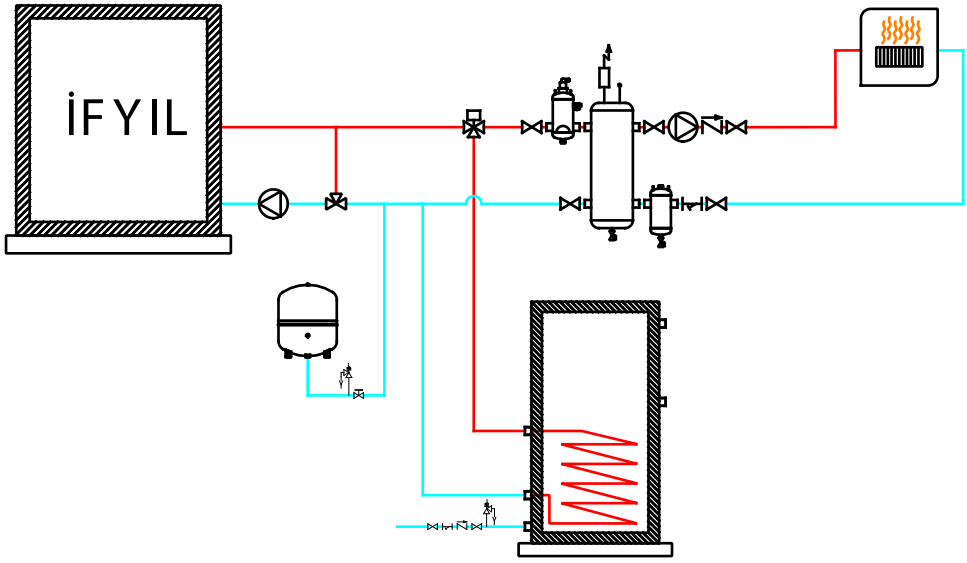
(For PPRC pipes: Øin = 35,2 mm must be.)

Plumbing Connections

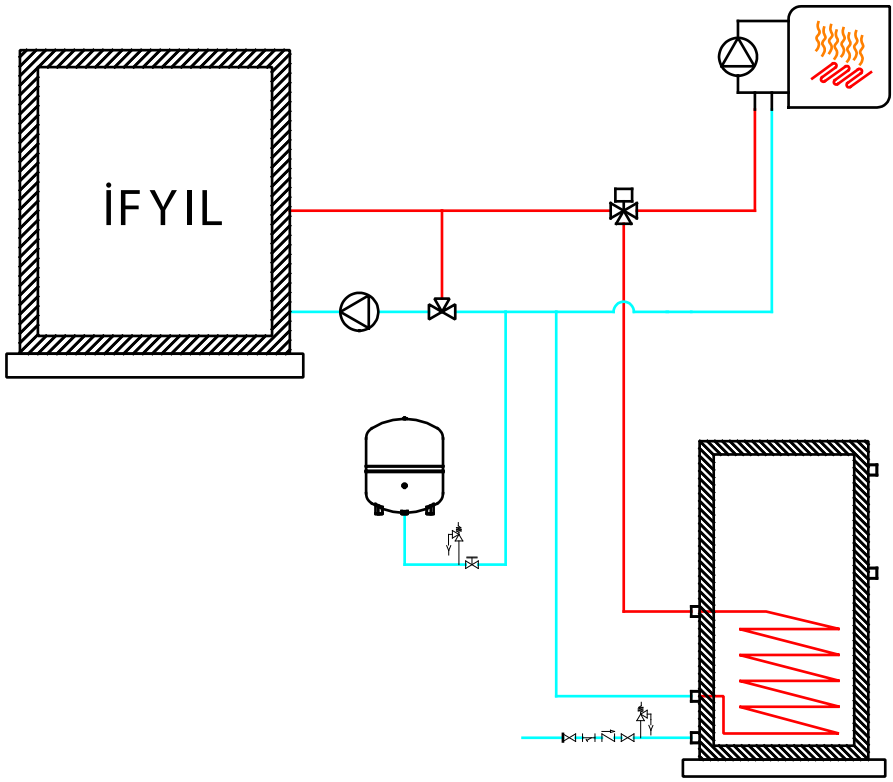
* Example schema - 1



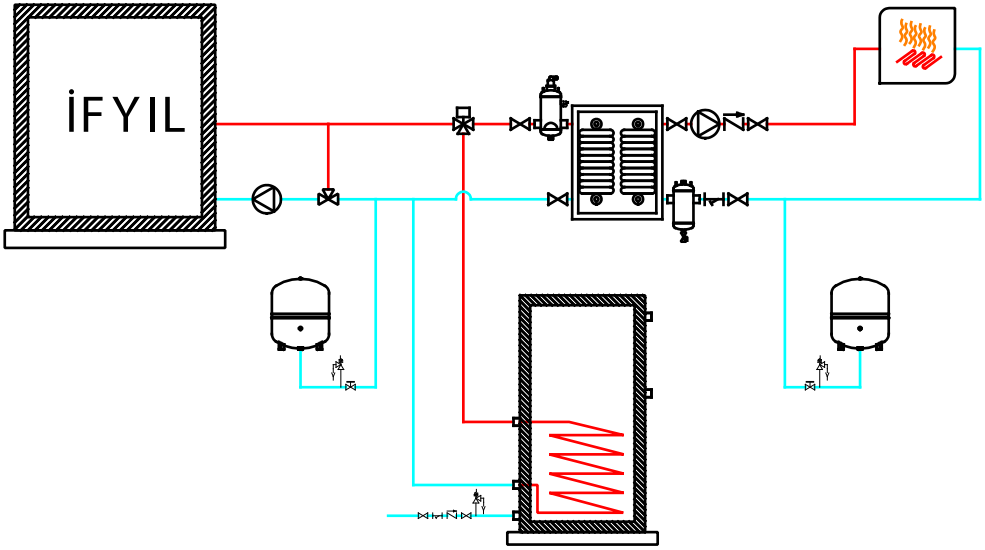
* Example schema - 2



* Example schema - 3



* Example schema - 4

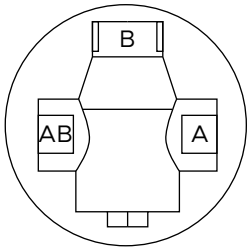


	Solid Fuel Boiler - Stove		Heat Exchanger		Underfloor Heating
	Boiler		A set of Fixed value settings		
	Ball Valve Or Butterfly Valve		3 Way Motorized Valve (Boiler priority)		Radiator Plumbing
	Strainer		3 Way Motorized Valve (Mixture)		
	Check valve		Expansion Tank		FCU Plumbing
	Anti Condensate		Manometer		
	compensator		Thermometer		Domestic Hot Water Plumbing
	Recirculation pump		Lock Valve		
	Air Separator		Safety valve		Pool Plumbing
	Balance Cup		Drain Valve		
	Sediment Trap				

6-3-2 Anti Condensation Valve Connection Schema

Anti condensate valve; By automatically adjusting the temperature of the water entering the boiler to the calibration value (55 °C), it prevents the condensation of water vapor in the smoke.

Anti condensate valve is a system in which the boiler is circulated to the outlet water to bring it to the appropriate temperature. In order to check the temperature of the water entering the solid-fueled boiler during and after the first start-up phase, it performs a mixing operation between the inlet water and the leaving water.



Connection

A: Radiator Cold Water Return Line
B: Boiler Hot Water Outlet Line
AB: Boiler Cold Water Return Line

Assembly and dismantling; it should always be carried out when the system is cold and unpressurized.
Access; valve access must be not prevented in order to allow maintenance of valves or piping equipment.

Warranty Coverage Warning;
As the anticondensation valve is used, it is necessary to use heating circulating pump and gate valve. The product is not covered by the warranty when the Anti-Condensation valve isn't use.

6-3-3 Heating Circulation Pump

The heating circulating pump with the same values as the circulating pump values should be used.

6-3-4 Gate Valve

Anticondens should be applied to prevent the heating circulating pump from being damaged when the valve is closed.

6-3-5 Three Way Mixing Valve

The mixing valve is a mixing valve that brings the hot water from the heating system to the desired temperature by mixing it with the cooling water in the heating system.
Features;
• The Kv value should be minimum 30 m^3 / h.
• The pressure loss of the 3-way mixing valve must be a maximum of 0.1 mSS.
• 3-way mixing valve outlet diameters must be 1 ¼".

The heating circulating pump, the gate valve, the mixing valve shall be supplied by the user

6-4 Ventilation and Air Flow

• In the ambient where the boiler is installed, there should be enough air to allow regular combustion.
• The location of boiler fresh air inlet must be provided.
• Use 100-130 cm2 vent is recommended.
• Avoid installing the unit in the same environment with the following;
oB type gas heaters or exhaust fan or fanless hoods
oCollective ventilation pipes.
oAspirator device running in the same environment, can cause problems

6-5 Chimney Instructions

*The main cause of the chimney fire;
• Improper selection or pipe that dust is flammable fuel.
• In the event of appropriate conditions can cause fires ignite in the ducts.

* Ways of avoiding them;
• The chimney should be cleaned at least 2 times per year, depending on the fuel quality.
• Correct and appropriate chimney selection should be made.
• Ensuring that the sealing and smoke in the chimney pipe and must be made in isolation.
• Fresh air intake area of the ducts that maintaining and cleaning the boiler is installed
• Surrounding the peak point of the roof of the chimney to the interference of the obstacle from height must be at least 80 cm.
• Should chimney's pipe inner diameter is 130 mm.
• Chimney flue test should be performed before making connections. If the chimney connections should be carried out after removal of the traction problem had this problem in the chimney.
• The boiler pipe connected to the horizontal flue pipe must not be longer than 2m. Boiler pipe elbow should be used only until the chimney. (Site selection for boilers should be determined by the closest point where the chimney.)
• In case of a re-ignition after prolonged period of time, the smoke paths and flue congestion must be checked.
• To avoid turbulence around the chimney flue without any obstructions (high buildings, trees, etc.) Must be at least 10 m away.
• The pellets boiler should be mounted as close to the chimney as possible (chimney connection should be short).
• Chimney cap should be used to prevent the flow into the chimney flue repercussions of windy weather and rain.
• Concrete blocks is affected by temperature changes, concrete flat roof which is in direct contact with the air must be absolutely isolated.

Boilers must be connected to a chimney duct which can move vertically smoke outside the building or its flue pipe to the highest point of the building.
Chimney connections, if that would be considered illegal in the first combustion fumes can cause the wall to infiltrate the processing of these leaks may leave traces. Leaked smoke and / or flames can cause burns or fire because it can be very hot

6-6 Smoke Pipe Connections

• Horizantal chimney's duct and vertical chimney's pipe connections are very important, therefore, it must be done carefully. Warranty of the smoke pipe connection should be made accordingly.
• The minimum safety opening surface sections should be 15%. Slope in the horizontal section of the pipe should be 3-5%. The horizantal chimney's duct should not be longer than 2 m.

• The boiler chimney pipe inner diameter is 130 mm.
• Horizantal chimney's duct and vertical chimney's pipe should be made of durable materials for heat, corrosion and condensation.
• The boiler flue pipe should not be extended by puncturing the window or wall. Otherwise, the flue gas heats up and kick back.
• Please take care of flue pipe standart sizes, the problems in case of using nonstandard sizes will not be under our responsibility.

6-7 Suitable Shapes Of Chimney

The remaining section of the chimney outside the installation ambient, it must be insulated. The smoke in the event of an electrical failure of your boiler with a natural drive capable throw out the chimney must be applied.

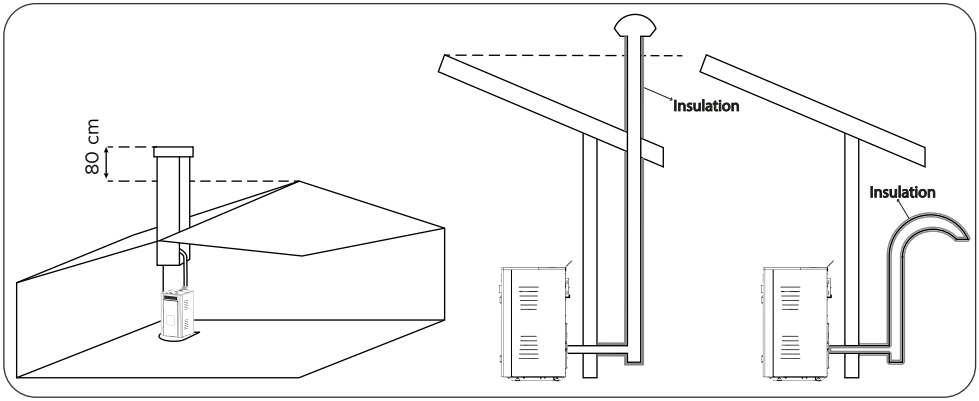


Figure 5.2 Suitable chimney shapes

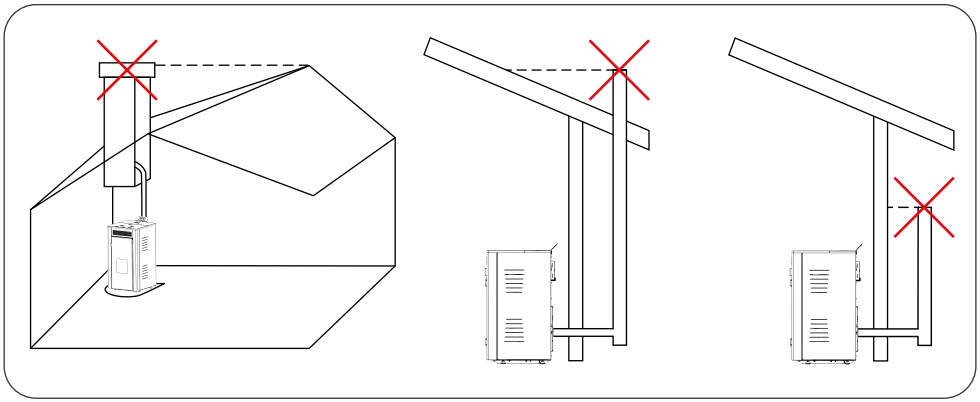


Figure 5.3 Improper chimney shapes

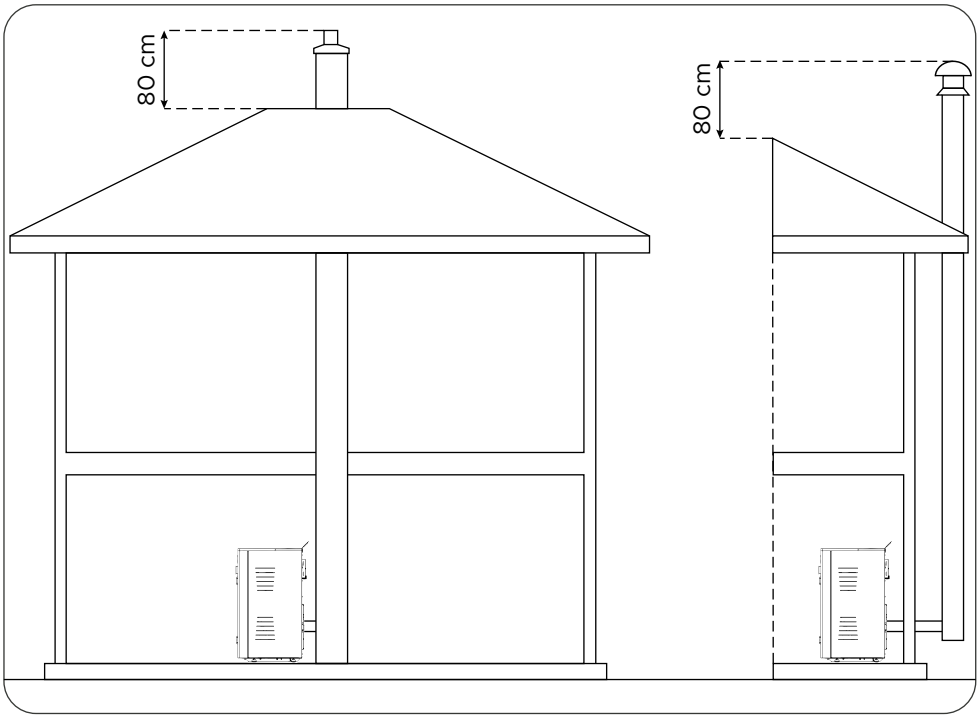


Figure 5.4 Chimney connection types

HOUSES AND OFFICES NOT OBEYİNG THE ABOVE MENTIONED STANDARDS ARE POTENTIAL FOR FIRE AT ANYTIME
AND CARBON MONOXIDE (CO) GAS LEAKAGE. PLEASE FOLLOW THE ABOVE MENTIONED INSTRUCTİONS!
BY SO, CLIENT ACCEPTS IN ADVANCE THAT IN SUCH CASES MANUFACTURER DOESN'T HAVE ANY RESPONSIBILTIES CLIENT NOT FULFILLING ABOVE MENTIONED REQUIREMENTS IN SCHEMAS CANNOT CLAIM ANY RIGHT OR COMPENSATION.

6-8 Fuel Tank Installing

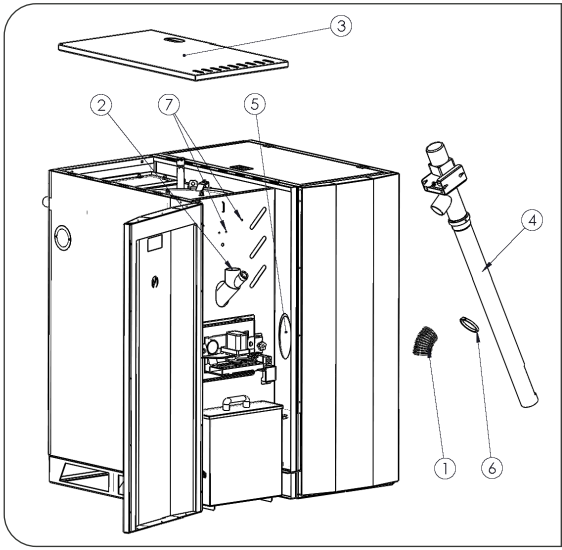


Figure 6.5

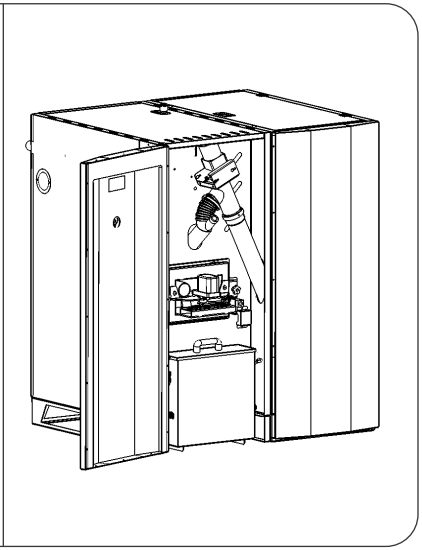


Figure 6.6

• Place the boiler and the fuel tank as shown in the illustration (with the front edges flush). (Picture 6.6)
* Fuel tank can be installed on both sides of the boiler (Left / Right).

• Remove the boiler top cover 3, shown in Figure 6.5.
• Then insert fuel supply unit 4 into slot 5. (Picture 6.5)
• Fix unit 4 to the screw holes 7 as shown in the illustration. (Picture 6.5)
• Insert clamp 6 into the larynx tube 1. (Picture 6.5)
• Install the larynx tube 1 so that the parts 2 and 4 are connected as shown. (Picture 6.6)
• Secure the larynx tube 1 and unit 4 with clamp 6.
• Close cover 3 and screw it on. (Picture 6.5)
• Make the necessary electrical connections.

6-9 Automatic Turbulator & Ash Cleaning System Motor Connections

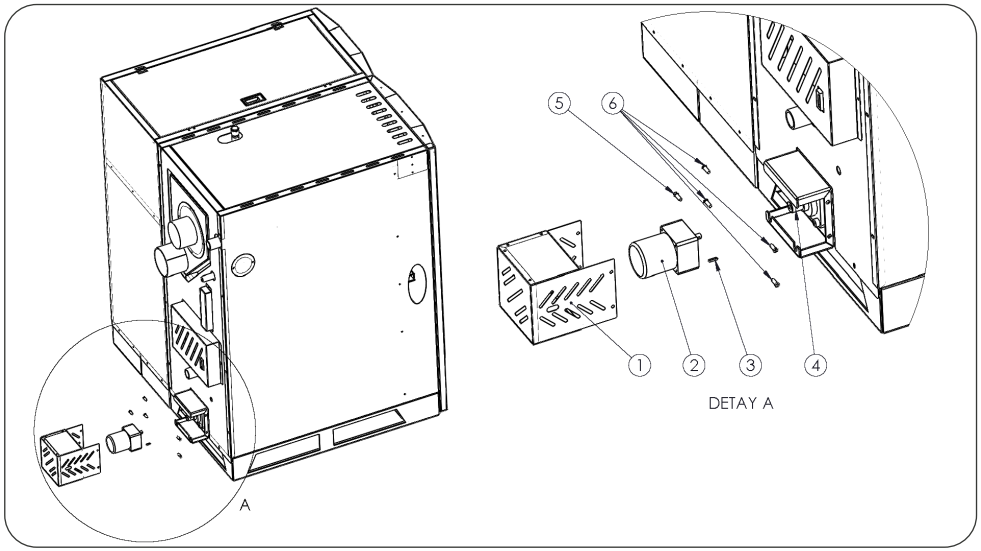
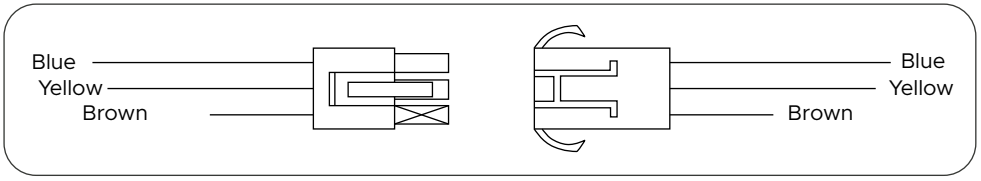


Figure 6.7

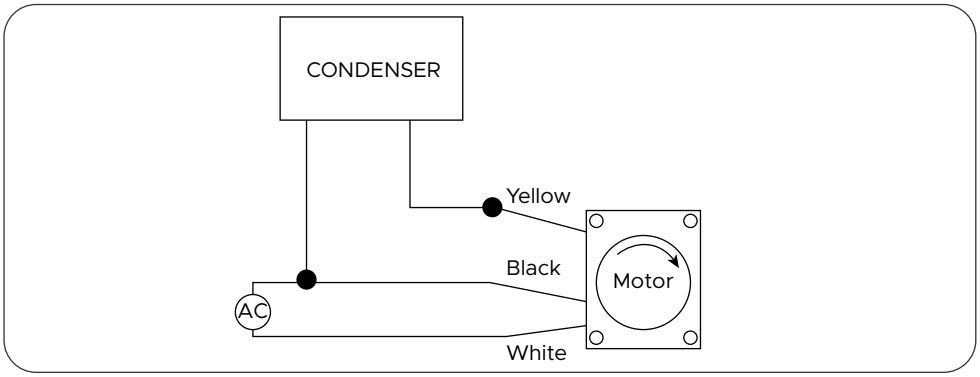
- Insert wedge 3 in Figure 4.3 into the slot on the motor shaft 2.
- Install motor 2 into ring 4 so that it engages in the keyway. (Picture 6.7)
- Tighten the fixing bolt 5 on the ring housing with the 4-number ring. (Picture 6.7)
- Install box 1 and tighten bolts 6. (Picture 6.7)
- Make the necessary electrical connections.

7- CONNECTION SCHEMAS

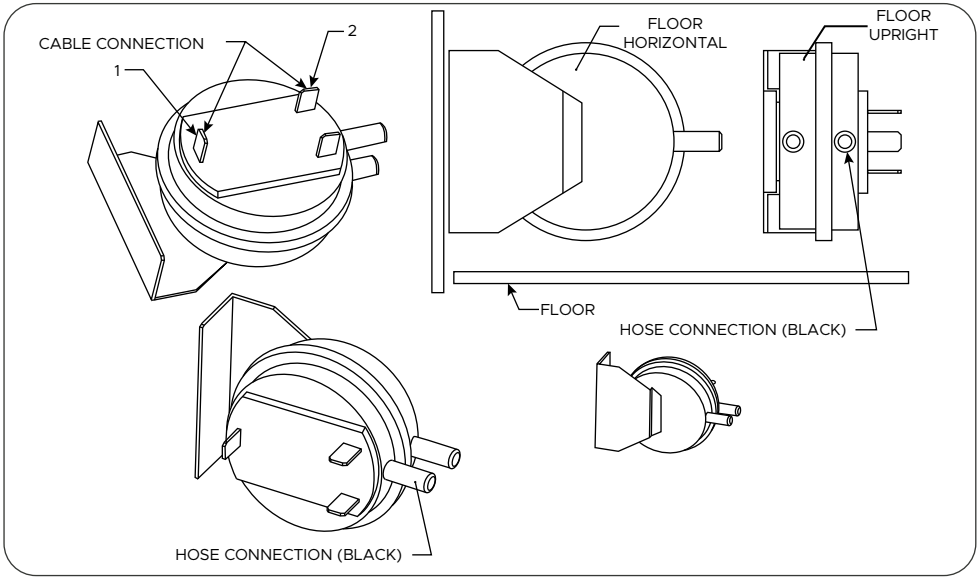
7-1 Pump Socket Connections



7-2 Fuel Supply Motor Connection

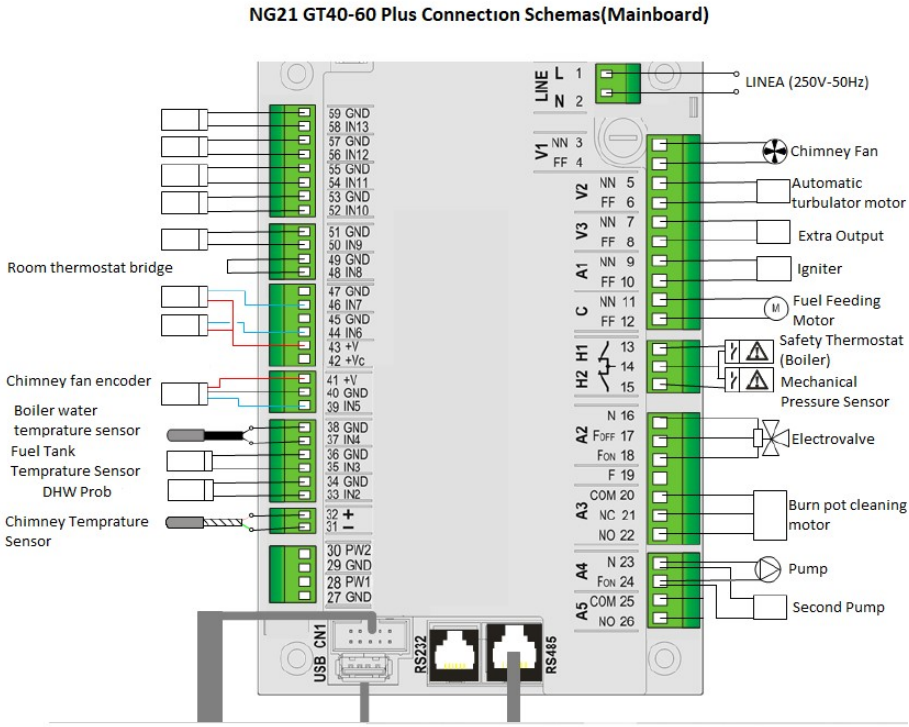


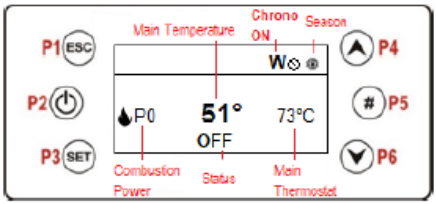
7-3 Prosestat Connection



8- MAINBOARD CONNECTION SCHEMA

Model: GT 40 Plus / GT 60 Plus



Date and time, Chrono state, temperature of the local room in use, local room thermostat in use, error signalling, combustion power, heating power	

Selection keys

P1	Exit from menu/submenu Refill Function (press for 3 seconds)	*P4*	Enter in Combustion power menu Increase
P2	Ignition and extinguishing (press for 3 seconds) Errors Reset Enabling/disabling chrono	*P5*	Enabling Chrono time slot Enter in Information Menu
P3	Enter in User menu 1/submenu Enter in User menu 2 (press for 3 seconds) Save data	*P6*	Enter in Room Thermostat Menu/Boiler Thermostat Decrease
P3+P5 For 3 seconds	Direct Enter in Secondary Information Menu present in Service Menu		

Led

D W WE	Daily Mode Chrono ON Weekly Mode Chrono ON Weekend Mode Chrono ON	24H	24 heating function enabled
C	Combi Functioning		DHW demand or buffer thermostat not satisfied
	Wood Functioning		Room heating target achieved
	Lack of fuel in the tank/Level of material in the tank within 0% and 10%		Level of material in the tank within 10% and 35%
	Level of material in the tank within 35% and 60%		Level of material in the tank within 60% and 80%
	Level of material in the tank within 80% and 100%		Climatic Function activated
	Summer		Winter

8-1 Information Menu

NG21

INFORMATION

Display		Unit	Description
K	*CP*		
Exhaust flue gas T.	tF	[°C]	Exhaust flue gas temperature
Flame Light	Lt	[%]	Flame Light; it is displayed only if an input has been set as Photoresistance
Water T	-	[°C]	Boiler temperature
Room T.	tA	[°C]	Local room temperature; it is displayed if an input has been set as Room probe or if the remote control 2Ways2 is on
Buffer tank T.	tP	[°C]	Buffer tank temperature; it is displayed if an input has been set as Buffer tank probe
Low Buffer tank T.	tPL	[°C]	Low buffer tank temperature; it is displayed if an input has been set as Low Buffer tank probe
DHW T.	tb	[°C]	DHW Temperature; it is displayed if an input has been set as DHW probe\
Supply T.	tM	[°C]	Supply temperature; it is displayed if an input has been set as Supply/Return probe
Collector T.	tC	[°C]	Solar collector temperature. Visible only if one input is configured as solar collector probe
Water Pressure	PA	[mbar]	Water Pressure; it is displayed if an input has been set as Water Pressure Sensor
External T.	tE	[°C]	External temperature; it is displayed if an input has been set as external probe
-	FL	-	Air Flow; it is displayed if an input has been set as Primary Air Regulator
-	Pr	[Pa]	Vacuum pressure; it is displayed if an input has been set as Vacuum sensor

-	UF	[rpm]	Speed of the Exhaust flue gas Fan; it is displayed only if **P25** is different from 0
-	Co	[s]	ON time of the Auger; it is displayed if **P81** is the same as 0
Recipe	rC	[nr]	Combustion Recipe Selected; it is displayed if **P04** is greater than 1
Service	St	[h]	Functioning time left before the system displays the message '*Service*'; it is displayed if **T66** is greater than 0.
Clean	St2	[h]	Functioning time left before the cleaning of the stove; it is displayed if **T67** is greater than 0.
Pellet	PL	[%]	Estimated pellet remaining in the tank
-	FunC	-	Summer (*Est*) /Winter (*InU*) Modality functioning
-	nGHt	-	State of the Night Mode function
-	FC	-	Firmware Code and Revision: FYSr03000002.x.y
-	xyzt 568	-	Product code

8-2 User Menu

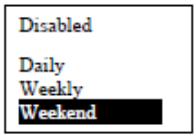
USER MENU

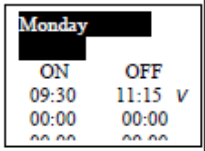
Functioning	Menu that allows you to change the system functioning, passing from Wood to Pellet mode and vice versa or to select the Combi mode. This Menu is displayed only if **P11**=2, 3, 4. The transition from one operating mode to another can only occur in the following cases: • From Off mode you can select any of the three options • with system On and **P11**=2, the functioning can't be modified • with system On and **P11**=3, from the functioning Wood only you can switch to Combi mode • with system On and **P11**=4, from the functioning Wood/Pellet only you can switch to Combi mode
Power	**Pellet** Menu to modify the combustion power of the system in Pellet mode. It can be set in automatic or manual modality: in the first case the system will choose the combustion power; in the second case the user selects the power. On the left side of the display is shown the combustion modality (*A*=automatic combustion, *M*=manual combustion) and the working power of the system. It is displayed if **P11** is different from 1.
	Wood Menu to modify the combustion power of the system in Wood mode. It can be set in automatic or manual modality: in the first case the system will choose the combustion power; in the second case the user selects the power. On the left side of the display is shown the combustion modality (*A*=automatic combustion, *M*=manual combustion) and the working power of the system. It is displayed if **PA36**=1 and **P11** is different from 0.
	Heating In this menu is possible to modify the heating power of the system. It can be set in modality automatic or manual: in the first case the system will choose the combustion power; in the second case the user selects the power. On the display right side is shown the heating mode (*A*=automatic, *M*=manual) and its power.
Thermostats	**Boiler** Menu to change the value of the Boiler Thermostat. Minimum and Maximum value can be programmed by setting Thermostats **Th26** and **Th27**; with activated climatic function and hydraulic plant different from 2, 3 or 9 The menu is not displayed, because the thermostat value is calculated automatically by the system.
	Buffer This Menu allows you to modify the value of the Buffer tank Thermostat; it is displayed only if a hydraulic plant which provides for it is selected. Minimum and maximum value can be programmed by setting the Thermostats **Th51** and **Th52**. With climatic function switched on and **P26**=4, 8 its value cannot be changed, because it is calculated automatically by the system.

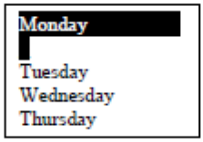
DHW This Menu allows you to modify the value of DHW Thermostat. It is displayed setting the parameter **P26**=2, 3, 10, 11. Maximum value can be programmed by setting the Thermostat **Th83**.
Supply This Menu allows you to modify the value of the Supply Thermostat. It is displayed only if a hydraulic plant which provides for the use of the Supply probe is selected (**P26**=9). Minimum and maximum value can be programmed by setting the Thermostats **Th71** and **Th72**. With climatic function switched on its value cannot be changed, because it is calculated automatically by the system.
Room This Menu allows you to modify the value of the local room thermostat. It is displayed if an input is configurated as room probe or if the remote control 2Ways2 is on.
Remote Room This Menu allows you to modify the value of the remote keyboard room thermostat. It is visible only in the remote keyboard if **A52**>0.
It allows programming and enabling ignition/extinguishing of the system. It consists of 2 submenus.

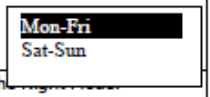
8-3 Chrono Setup Menu

	Mode It allows you to select the mode of your choice or to disable all the set programs. • enter modify mode with the key**P3** • select the mode of your choice (Daily, Weekly or Weekend) • enable/disable chrono mode with the button **P2** • save the new settings with the key **P3** **Program** The system has 3 programs: Daily, Weekly, Weekend. After selecting the program of your choice: • select the time with the buttons **P6** or **P4** (**P5** or **P4** for the K100) • enter the modify mode (the selected time flashes) with the button **P3** • modify the time with the buttons **P6** or **P4** (**P5** or **P4** for the K100) • save the new settings with the button **P3** • enable (a "V" is displayed) or disable the time slot (a "V" is not displayed) pushing the button **P5** (**P2** for the K100) *Daily* Select the day of the week of your choice and set the ignition and extinguishing times. *Program across midnight* Set an ON time of the day before of your choice: Ex. 20.30 Set the OFF time of the day before at 23:59 Set the ON time for the next day at 00:00 Set the OFF time of the next day of your choice: Ex. 6:30 The system will turn on at 20.30 on Tuesday and will turn off at 6.30 on Wednesday *Weekly* The programs are the same for all the days of the week. *Weekend* Choose between the time slots Monday-Friday and Saturday-Sunday and set the time for ignition and extinguishing.
Night Mode *	Menu to set and enable the beginning and ending time slots of the Night Mode. The time slots programming is the same as in Chrono Menu. To program it across midnight, set a time slot until 23.59 and the following from 00.00 to the time of your choice. Night Mode allows you to disable in the set time slots the functioning of the following Engines: Load Engine (if **P100**=1), Cleaning Engine (if **P103**=1), Cleaning Engine 2 (if **P102**=1), Cleaning Engine 3 (if **P101**=1). During the set times, the display shows the message *Night Mode*. The menu is displayed only if at least one engine is disabled in Night Mode.









8-4 Error Codes

Description	SYSTEM PHASE	KOD
Boiler water temperature too high error. (This alarm is active even when the system is turned	Blok	Er01
Prosestat error.	Blok	Er02
Extinguishing at low flue temperature	Blok	Er03
Extinguishing at high water temperature	Blok	Er04
Extinguishing at high flue temperature	Blok	Er05
Fuel tank overheat	Blok	Er06
Fan encoder error: No encoder signal	Blok	Er07
Fan encoder error: Chimney fan adjustment failed	Blok	Er08
Time and date not correct error during prolonged power failure	Blok	Er11
Ignition failure	Blok	Er12
Power failure error	Blok	Er15
Control panel connection error	Blok	Er16
Pellet out error	Blok	Er18
Combustion chamber cleaning motor error	Blok	Er25
Service Error	Blok	Servis

9-OPERATING

First Fire

- The pellets feeder, not provide the required amount of pellets in the tank is not full every first firing. So the pellets tank, make sure that the pellets fall into the pellets feeder.
- If not successful after several test burn, make sure the correct positioning of the combustion pot.
- Instead of the igniter is placed in the holes in the combustion pot. Burning pot, make sure it is fully seated.

For warning labels affixed on the boiler, remove before burning boiler. During the first burning boiler clean room air intake must be provided.

The smoke and odor of the protective paint on the boiler during the first combustion is short term, in this case open the doors and windows.

10- FUEL CALIBRATION

Calibration should be carried out during commissioning of the products and in case of replacement of the pellet used. The first calibration process (installation) must be performed by the service. Calibration procedure should be done when the boiler is cold and not working.

Before starting the calibration process, place a bowl where you can weigh the pellet at the drop point of the pellet. (If there is no pellet in the feeding auger, press the “Set” key. In Loading menu, move the state to On position. After to place the pellet in the bowl that you have placed, loading menu can do "off”)

Press the "Set” button. Go to Loading menu and Set the status from “off" to "on". The pellet feed will then be activated and the pellet will feed continuously for 5 minutes. At the end of this period, perform the loading again. Weigh the pellet at the end of this 10-minute loading. Compare the result of this weighing in grams. Change the P05 and T03 parameter values by selecting the closest value.

Do this only if you change the pellet that you use after the initial service and you experience a decrease in performance.

You can make the changes by following the steps below.

To change parameter P05; Press and hold the "Set" button for 3 seconds. Select ’’ System" from the menu that appears. You will be asked to enter the password. Contact your service provider for a password. Then select "Auger" menu. You can reach the parameter value P05 with the up / down arrow keys.

To change parameter P03; Press and hold the "Set" button for 3 seconds. Select ’’ System" from the menu that appears. You will be asked to enter the password. Contact your service provider for a password. Then select "timers" menu. You can reach the parameter value P03 with the up / down arrow keys.

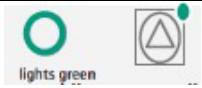
The user must not change any parameters except these two parameters within the calibration process. Otherwise, the user is responsible for the loss of efficiency.

It is recommended that all these operations be performed by the service.

GT 40 Plus				GT 60 Plus			
No	Gr/10dk	P05	T03	No	Gr/10dk	P05	T03
1	5500	5,1	98	1	6000	4,4	97
2	5550	5,3	92	2	6200	4,6	91
3	5600	5,6	88	3	6400	4,8	87
4	5650	5,8	85	4	6600	5,1	82
5	5700	6	81	5	6800	5,3	79
6	5750	6,2	78	6	7000	5,6	75
7	5800	6,5	75	7	7200	5,8	72
8	5850	6,7	73	8	7400	6	69
9	5900	6,9	70	9	7600	6,4	66
10	5950	7,1	68	10	7800	6,6	64
11	6000	7,4	66	11	8000	6,8	61
12	6050	7,6	64	12	8200	7	59
13	6100	7,8	62	13	8400	7,2	57
14	6150	8	60	14	8600	7,5	55
15	6200	8,3	58	15	8800	7,8	54
16	6250	8,5	57	16	9000	8	52
17	6300	8,7	55	17	9200	8,2	51
18	6350	9	54	18	9400	8,4	50
19	6400	9,2	53	19	9600	8,5	49
20	6450	9,4	51	20	9800	8,6	48
21	6500	9,6	50	21	10000	8,7	48
22	6550	9,8	49				
23	6600	10	48				
24	6650	10,3	47				
25	6700	10,5	46				
26	6750	10,7	45				
27	6800	11	44				
28	6850	11,3	43				
29	6900	11,5	42				

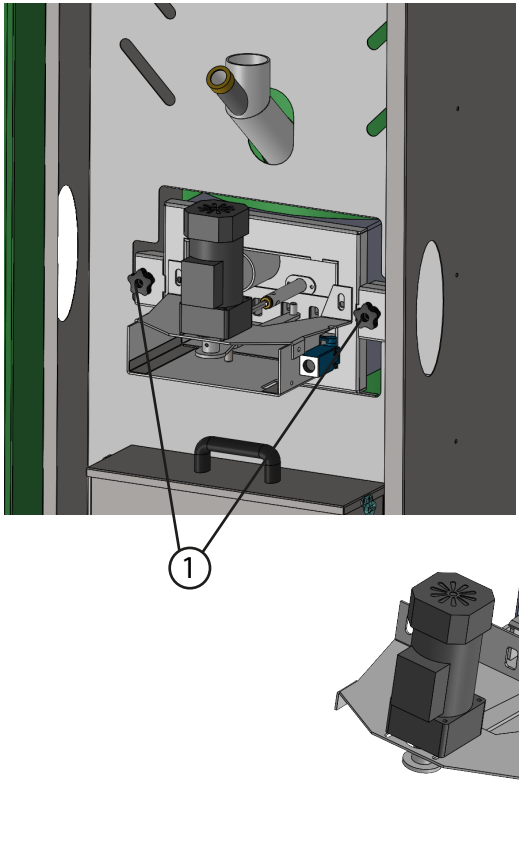
11- PUMP WARNING LAMP

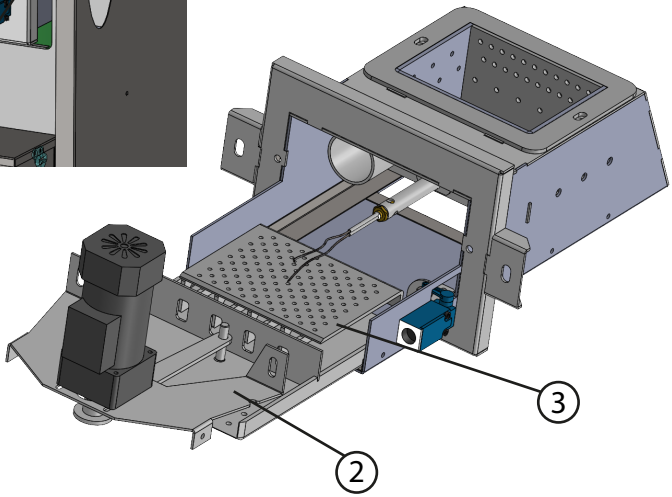
If the product is equipped with a **Wilo pump** with frequency converter:

LED COLOUR	MEAN	DETAILED DESCRIPTION
 Solid Green Light	Normal Operation	The pump is operating normally.
 Flashing Green Operation	 Air discharged The pump is standby mode (PWM version)	Pump will try to take the air in the system for 10 minutes. The pump then this process will not work if the maximum speed; by the user via the switch should be set to the desired value. The pump is in standby mode. (PWM verson)
 Flashing red/green light	Unusul work (Pomp is stop)	The pump has stopped because of the problem. After eliminating the problem, pump self again It starts operating.
 Flashing Red Light	Pump is stop.	By turning the pump Start again. if After rebooting the still flashing red If you see light; replace pump with a new one
 No Light	There is no power supply	Energy is not going to pump.

12- MAINTENANCE and CLEANING

All cleaning of your stove, while your stove is not lit (when cold case) and make the electrical connection closed position. When cleaning your stove; Do not use Flammable, explosive, flammable etc chemicals that may pose a hazard. Clean the glass of your stove with a damp, soft cloth and a surface cleaner.





1. Hopper Removal Bakelite
2. Hopper motor connector
3. Grill Slider

In the combustion chamber, it is provided to automatically clean the particles formed by the combustion process.

Combustion Chamber Automatic Cleaning Periods;

- When the product is turned off by the user,
- When the product enters Standby mode,
- When there is a power failure and power is restored (Error: ER15),
- Product failure

Combustion Chamber Cleaning system will activate.

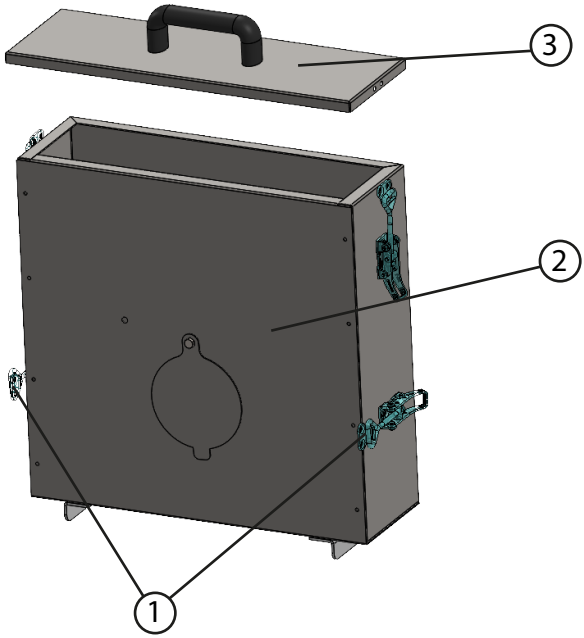
In case the combustion chamber cleaning engine does not start;

- Unscrew the bolts number 4. (Fig. 11.2).
- Remove the part with engine number 5. (Figure 11.2)
- Afterwards, manual cleaning can be performed by moving table 7 back and forth. (Figure 11.2)

Combustion Chamber Holes,

The holes in the combustion crucible may be blocked by slag or ash deposits. (Depending on pellet quality) In case the combustion air does not pass through the holes combustion stability cannot be achieved. Close the holes of the combustion pot with visual control Check that it does not turn off. Clean the holes if they are closed. When cleaning the ladle make sure it is completely cold.

Ash Box Cleaning



- Unfold the numbers 1
- Then remove the ash tray 2.
- Open the number 1
- Remove cover 3 as shown in the figure
- Clean the ash box and reassemble.
- You can do this once a week.

Turbulator – Smoke Pipe Cleaning

a) Automatic Turbulator Cleaning

In the smoke pipes, cleaning of the particles caused by the combustion process is provided automatically.

Every time the boiler is switched off, the system will be activated at the specified time intervals to perform automatic turbulator cleaning.

Automatic turbulator cleaning will be activated automatically between 08:00- 18:00 every time the boiler is switched off / off.

** If the turbulator mechanism faulted, it can be moved by manual lever.*

a.1. Time Switch;

The time switch controls the switching on and off of the circuit at predetermined intervals in increments of 2 hours for 7 days or 15 minutes for 24 hours.

The time switch is shown in figure 10.3.

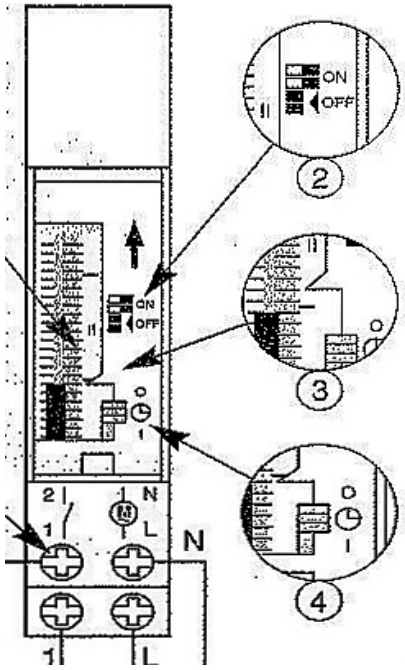
a.2. Manual Switching;

Explain of number 4 of Figure – 10.3.

Up : ' O " - Contact Continuous On Mode
Middle : ' ◷ ' - Auto Program Mod
Down : ' I ' - Contact Continuous Off Mode

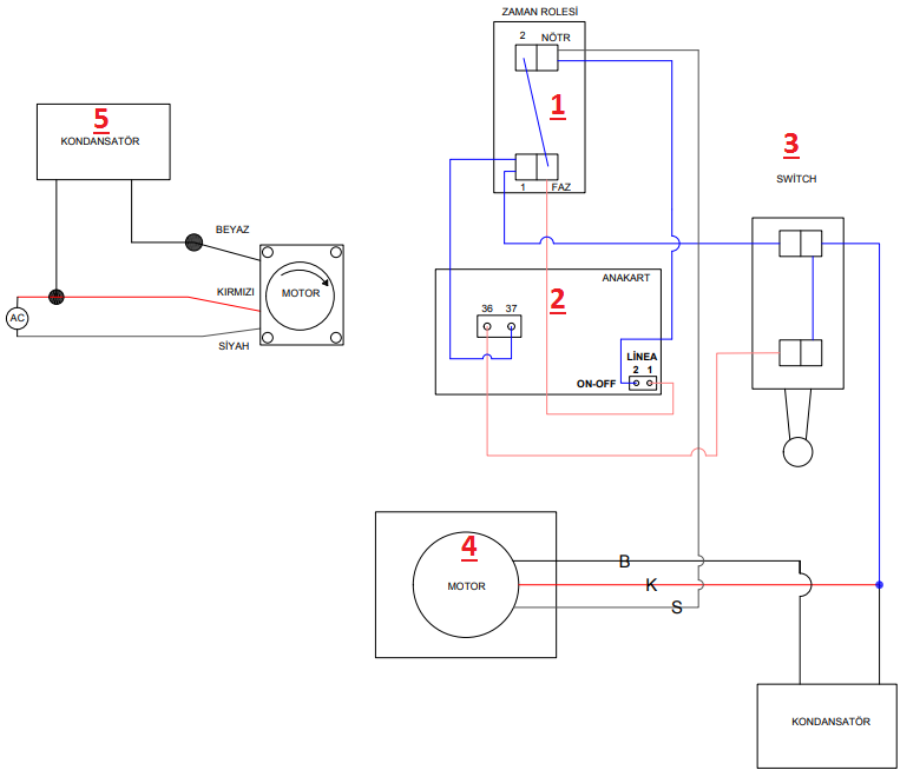
The time switch will be sent in the ' O " - Contact Continuous On mode to the user. When the boiler reaches the user, the authorized service personnel will activate the system by taking the ' ◷ ' - Auto Program Mod.

The user should not change the time of the time clock.



Picture 10.3 Time Switch

a.3. Electrical Circuit Diagram



Picture 10.4: Electrical Circuit Diagram

The Electrical Circuit Diagram Elements are numbered in Figure 10.4.

(1)..... Time Roles

(2).....Motherboard

(3)..... On – Off

(4).....Motor

(5).....Condenser

b. Manual Turbulator Cleaning

In cases where the Automatic Turbulator Cleaning System is not operating, the following steps should be followed;

- Remove the manual turbine cleaning arm intervention cover on the side of the boiler.
- The cleaning arm is then attached to the shaft.
- Move the lever up and down.

	Cleaning periods may vary depending on pellet quality.

	• After 2000 hours of operation, please call the technical service for stove maintenance. • Do not spray cleaner on painted parts or on fire gate seals.

	The display shows the message "**Clean**" per 200 hours and the system gives out an acoustic signal periodically. To stop signalling access to the Menu "**Cleaning Reset**". To access this menu; Press the **Set** (**P3**) key once. (For **NG01** Card; press **Set** (**P3**) key a few seconds. Enter "**Settings**" menu with the **set** (**P3**) key.) Use the arrow keys (**P4 / P6**) from the menu to enter "**Cleaning reset**" menu with the **set** (**P3**) key. Set the status to "**on**". This is possible only in OFF state.

12. SAFETY DEVICES

- On-Off Switch
- Closed Expansion Tank
- Smoke Temparature Sensor
- Fuel Tank Over Temparature Sensor
- Boiler Body Temparature Sensor
- Boiler Safety Thermostat
- Smoke Pressure Switch
- Safety Valve
- Automatic Aır Prufier

13- PROBLEMS, CAUSES and SOLUTIONS

PROBLEMS	POSIBLE CAUSES	SOLUTIONS
Boiler does not start.	No Energy Supply	Check the On / Off button.
	The fuse may have blown.	The fuse must be checked.
When the boiler in operation the temperature is not increasing.	Insufficient fuel consumption	Calibration is required.
	Routine maintenance may not have been done.	Maintain your device as specified in the user manual.
	Poor fuel quality	Use defined fuel.
Boiler is going condensation	Temperature settings may be insufficient	Increase Combustion / Boiler temperature.
	Insufficient fuel consumption	Calibration is required.
The radiators are not heating up.	The room thermostat may be set to low.	Increase the room thermostat temperature.
	The pump may not be running.	Check the circulation pump.
	There may be air in the radiators.	Purge air from radiators.
The pellets are not fed into combustion chamber, or not enough into	The fuel level may be low.	Fill the fuel tank
	Pellet feed system may be stuck	Check the pellet feed motor
	Electronic card may be failure	Call the authorized technical service.
	Fuel supply engine may be	
Boiler fire in self off and / or the boiler stops automatically.	The fuel level may be low	Fill the fuel tank
	The pellet poor quality.	Use quality pellets.
	The pellet may be low.	Check the fuel flow.
	It may be dirty in the combustion chamber.	Clean the combustion chamber as indicated in the manual.
	Circulation pump may be faulty.	Call the authorized technical service.

The boiler runs a few minutes and then the switches off	Ignition could not be completed.	Restart the ignition
	There may have been a power outage.	Restart the ignition
	Smoke channels may be closed.	Clean the smoke channels
	There may be a temperature sensor error.	Call the authorized technical service.
The smoke evacuation fan does not work.	It could be motor error.	Call the authorized technical service.
	It could be a motherboard problem.	
	The boiler does not receive energy.	Check the fuse
In automatic mode, the boiler is constantly running at the highest power.	The isolation of the environment may be	Ensure the isolation of the environment.
	Constantly showing cold due to thermostat position.	Change the position of the thermostat.
	The temperature value on the thermostat is set high.	Decrease the temperature value.
The flame in the boiler goes out automatically and/or the boiler stops automatically.	The pellet hopper is empty.	Fill the pellet hopper.
	Pellet feeder not working.	Check, if necessary, call technical service for engine replacement.
	The door is not fully	Close the door or replace with original spare parts.
	Unsuitable pellet.	Use the type of pellet recommended by the manufacturer.
	Low pellet rate.	Have the technical service check the fuel feed rate.
	It may be dirty in the combustion chamber.	Clean the combustion chamber as indicated in the manual.
	The smoke outlet is clogged.	Check the turbulators and turbulator lower ashtray.
	The chimney fan may not be able to evacuate the smoke.	Clean the flue pipes.

Pellets pile up in the combustion pot, the cover glass gets dirty very quickly and the flame length is short.	There may not be enough combustion air.	Make sure the room contains enough oxygen or is ventilated, the fresh air intake is not blocked. Check the wicks, air ducts and cover.
	Pellets are damp or unsuitable.	Use dry or suitable standard pellets.
	The flue fan may be faulty.	Check and, if necessary, contact service to replace the fan.
	Pellet feeder not working.	Menu> Combustion Management> Fan Calibration and Spiral Calibration can be adjusted.

14- SIGNIFICIANT INSTRUCTIONS for EFFECTIVE USING

- Please, clean the ash before ignition the boiler.
- Please clean the inside of the glazed models with the help of cleaner and outside with the clean cloth.
- The insulated environment is recommended to use the boiler.
- Do not put any other fuel different pellet into the tank and combustıon pot.
- Ø 6 / L:30 mm EN Plus A1 + A2 wood pellets to be used as fuel.
- Settings other than user settings (technical menu) must be replaced by the service.
- Please press the shut-down button to close the boiler when the boiler is open (do not take off the energy cable to turn off the boiler).
- Pellets must be reloaded if pellets remain at a height of 20 cm below the fuel tank.
- Fuel tank should not be loaded fully, 5 cm clearance should be left from the top.
- The chimney installation must be done in accordance with the instructions.
- Annual maintenance will make longer the life of the boiler.
- Settings except user settings should be changed by the service.

158- MAINBOARD CONNECTION SCHEMA8- MAIN-

- Please read the installation schema and user guide carefully.
- Please use wood pellets as fuel.
- Once a year, the boiler should be checked by the authorized service.
- Please do not start the boiler when the boiler door is open.
- In case of fire, please switch off the boiler and plug off, ventilate the room, call the emergency fire department.

Service Calls

t www.ifyil.com.tr

Any right cannot be claimed due to the changes or modifications or wrong use of spare parts.

REPUBLIC OF TURKEY

MINISTRY OF CUSTOMS AND TRADE

DIRECTORY OF CUSTOMERS PROTECTION AND MARKET SURVEILLANCE

CERTIFICATE OF WARRANTY

Date of issue and number of document:
Validity of document:

The Ministry of Customs and Trade with General Directorate of Consumer Protection and Market Surveillance authorized use of this document; Law No. 6502 on Consumer Protection and In accordance with the Regulation on the application principles of the WARRANTY Certificate.

MANUFACTURER COMPANY

Name: İFYIL TERMO İKLİMLENDİRME SAN. TİC. LTD. ŞTİ.
Address: Yeni Cami Mah. 3. Cad. Kavak OSB Kavak/ SAMSUN/TÜRKİYE
Phone: +90 (362) 266 94 43
Fax: +90 (362) 266 94 43
E-Mail: info@ifyil.com.tr
Authorized Signature&Stamp:

İFYIL TERMO İKLİMLENDİRME SANAYİ VE TİCARET LTD. ŞTİ.
Yeni Cami Mah. 3. Cad. No: 11 Kavak OSB
Tel-Fax : (0.362) 266 94 43 Kavak/SAMSUN
Kavak Mal Müdürlüğü : 470 063 0490
Mersis No.: 0470 - 0630 - 4900 - 0014

PRODUCT

Type: *Pellet Boiler*
Trademark: *İFYIL*
Model:
Banderole & Serial Number:
Production Date:
Warranty Time: *Two Years*
Max Reperation Time: Twenty *Working Days*

IMPORTER / DEALER

Name:
Address:
Phone:
Fax:
E-Mail:
Invoice date and number:
Delivery date and place:
Authorized Signature:
Authorized Stamp:

CUSTOMER

Name Surname:
Address:
Phone:
Signature:

WARRANTY CONDITIONS

1) The warranty period starts from the delivery date of the product and is **two (2)** years.

2) The product is fully in warranty, except for the glass and cast parts.

3) In case the product is found to be defective, Article 11 of the Law No. 6502 on Consumer Protection;

a- Cancelling sales contract,
b- Asking for reduction from selling price of products,
c- Asking for free reperation,
d- Asking products to be changed with non deffective one use one of this rights.

4) In case of choosing product to be reperated by consumer; seller is obliged to repare total product without asking any reperation fee, changed parts or any costs concerning this reperation. Consumer can use this right either against manufacturer or against importer of products. Seller, manufacturer and importer are common responsible for quality of products.

5) In case of choosing products to be reperated for free by consumer;

- If products are broken again in the warranty time is still,
- If given repair time was passed,
- If reparation is impossible and this situation is proved by service, seller, manufacturer or importer with a written report;

Consumer has total right to ask be paid the price of products, reduction price of product for damage or if possible change of completely product against not damaged ones. Seller has no right to refuse demand written here below and in negative case seller, manufacturer and importer are common responsible.

6) Reperation period can not exceed **20 working days**. In case of in warranty time this period starts from to giving information time to tecnical service or seller by customer. In case of in not valid warranty time this period starts from reception of the products to service. Importer or seller obliged to replace products with another one until reparation completed, if reparation period exceeds **10 working days**. Time for reparation will be added to total warranty time in case reparation has been done on validity of warranty term.

7) Warranty does not covers any damages due to energy cut in case of not use external power supply.

8) Warranty does not cover any damages due to high or low voltage.

9) Warranty does not covers any damages due to burning chemical used pellets or contaminated pellets.

10) Product will out of Warranty when installation/any change made by non authorised personnel or services.

11) Warranty does not covers any damages due to set up ifyil pellet stoves in open air areas, wet places, humid places or any place which directly related to all these places.

12) Warranty does not cover any damages due to not maintenance of product which written in user's guide.

13) Warranty does not cover any damages due to using product against its purpose or against rules written in user's guide.

14) Warranty does not cover any damages due to **fire and natural disaster**.

15) Consumer has total right to inform courts, consumer arbitration committee of their country or place of live.

16) İn case not isue of this warranty certificate consumer has right to apply to ministery of trade and customs of Turkish Republic.

17) This warranty rules and conditions are valid only in territory of **Turkish Republic** and in case of arbitration courts of Samsun city Turkish Republic are authorized.

18) Service and warranty terms are the responsibility of the importer company.

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MODERN HEATING
SOLUTIONS

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POWERFUL
ADVANTAGES

CENTRAL HEATING
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STOVE&FIREPLACE

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