

# **DOMUSA**

## **T E K N I K**

### **INSTALLATION AND OPERATING INSTRUCTIONS**

# **GRANADA**

This instruction manual includes all the details necessary for the proper installation and use of the boiler.  
We thank you for having chosen a **DOMUSA TEKNIK** boiler.

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## 1.- INSTALLATION INSTRUCTIONS

The compliance with the normative and legislation in force related to the subject is essential for the proper installation of the boiler.

### 1.1.- Location

The boiler is to be installed into a sufficiently ventilated place.

### 1.2.- Uptake

It is essential for this type of boiler to be connected to an uptake, being defined as that flue being capable of generating a depression (in our case of 2 mm/wc.). It is advisable, for the uptake to be capable of generating a depression, to follow the recommendations described below:

- It is to be provided with a suitable thermal insulation.
- It is to be separately fitted, building an uptake for each boiler.
- It is to be vertically mounted and angles higher than 45° are to be avoided.
- It is to stick up a metre through the roof ridge beam or any adjacent building.
- It is always to have the same section, the circular one is recommended, and it will never be less than the boiler outlet diameter.

**Note:** If the design of the uptake is not capable of generate the necessary depression, it can be possible to have a reduction in the quantity of combustion air, reducing the heating output kW produced by the boiler.

### 1.3.- Hydraulic installation

The hydraulic installation is to be carried out by skilled personnel complying with the installation standards and taking the following recommendations into account:

- **The boiler has to be installed in an open hydraulic circuit.**
- It is necessary to mount an air vent in the boiler, to avoid generation of air bubbles inside the boiler.
- It is recommended to mount a drainage valve in the boiler.
- A thorough interior cleaning of the installation piping is to be performed prior to the switching on of the boiler.
- It is recommended that cut-off valves be interspersed between the installation piping and the boiler, in order to simplify the maintenance tasks.

### 1.4.- Electric installation

The boiler is ready to be connected at 220 V 50 Hz on plugs 1 and 2 of the terminal strip. **Do not forget to do grounding.**

In addition, the boiler is provided with two terminals for the room thermostat connection (see Electrical Diagram). For that, the bridge joining both terminals **3-4** is to be removed and the room thermostat is to be connected there.

### **1.5.- Burner mounting**

The model **Sirena** is supplied with an oil burner **Domestic**. Follow the next instructions to mount the burner over the boiler:

- Dismount the cover of the oil combustion chamber.
- Cut the insulation, which covers the hole of the combustion chamber, with a cutter.
- Follow the installation guide included with the burner to install the oil circuit.
- The boiler is provided with two terminals **5 - 6** for the burner electrical connection.

### **1.6.- Draught regulator mounting**

To mount the draught regulator supplied with the boiler, follow carefully the next steps:

- Keeping the boiler empty of water, screw the draught regulator in the hole provided in the boiler for such a purpose, ensuring a good sealed of it.
- Introduce the hexagonal lever through the lateral hole displacing the plastic tube and placing the lever over the horizontal plane.
- Slide the lever in such a position that allows to open and close the boiler charge door.
- Fix the lever with the screw.
- Ignite the boiler and wait for the temperature reaches the desired one in the thermometer.
- Then turn the draught regulator up to the temperature shown in the thermometer.
- With the principal air inlet-door closed fix the chain with it and leave it tight.

## **2.- INSTALLATION WATER-FILLING**

Water filling is to be carried out slowly and with the air vent open, so that the installation air will be released. In addition, the other parts of the installation are to be properly purged by means of the air vent valves fitted for such a purpose. Once the installation has been filled up, close the filling valve.

**NOTE: Switching on the boiler without water could result in serious damage to it.**

## **3.- SAFETY LOCKING**

The boiler is provided with two types of operating safety locking:

### **3.1.- Temperature safety locking**

It will occur every time the temperature in the boiler exceeds 110° C. The safety thermostat built-in button will be pressed in order to unlock it, once the plug covering this button has been previously loosened.

### **3.2.- Burner locking**

It is caused by any failure which could exist in the burner or oil line. To unlock, press the burner lighted push button which becomes put on .

**NOTE: If any of these lockings were repetitive, contact the nearest authorised Technical Assistance.**

### **4.- BOILER OPERATING**

There are two different operating situations:

#### **4.1.- Operating with firewood**

Set the draught regulator to desired temperature (red range). It is recommended to set the temperature between 60 and 90 °C.

Ignite the fire inside the combustion chamber using papers or similar to help its start. Use always very dry firewood.

**Note:** Ensures that the heating circulating pump works correctly.

#### **4.2.- Operating with oil burner**

Set the control thermostat and the room thermostat (if any) to the desired temperature.

Set the main selector to "ON" position in order to switch on the boiler.

The burner will be put on. The burner will stop when the boiler has reached the temperature selected in the control thermostat.

### **5.- BOILER STOP**

Set the main selector to "ON" position in order to switch on the boiler.

### **6.- EQUIPMENT DELIVERY**

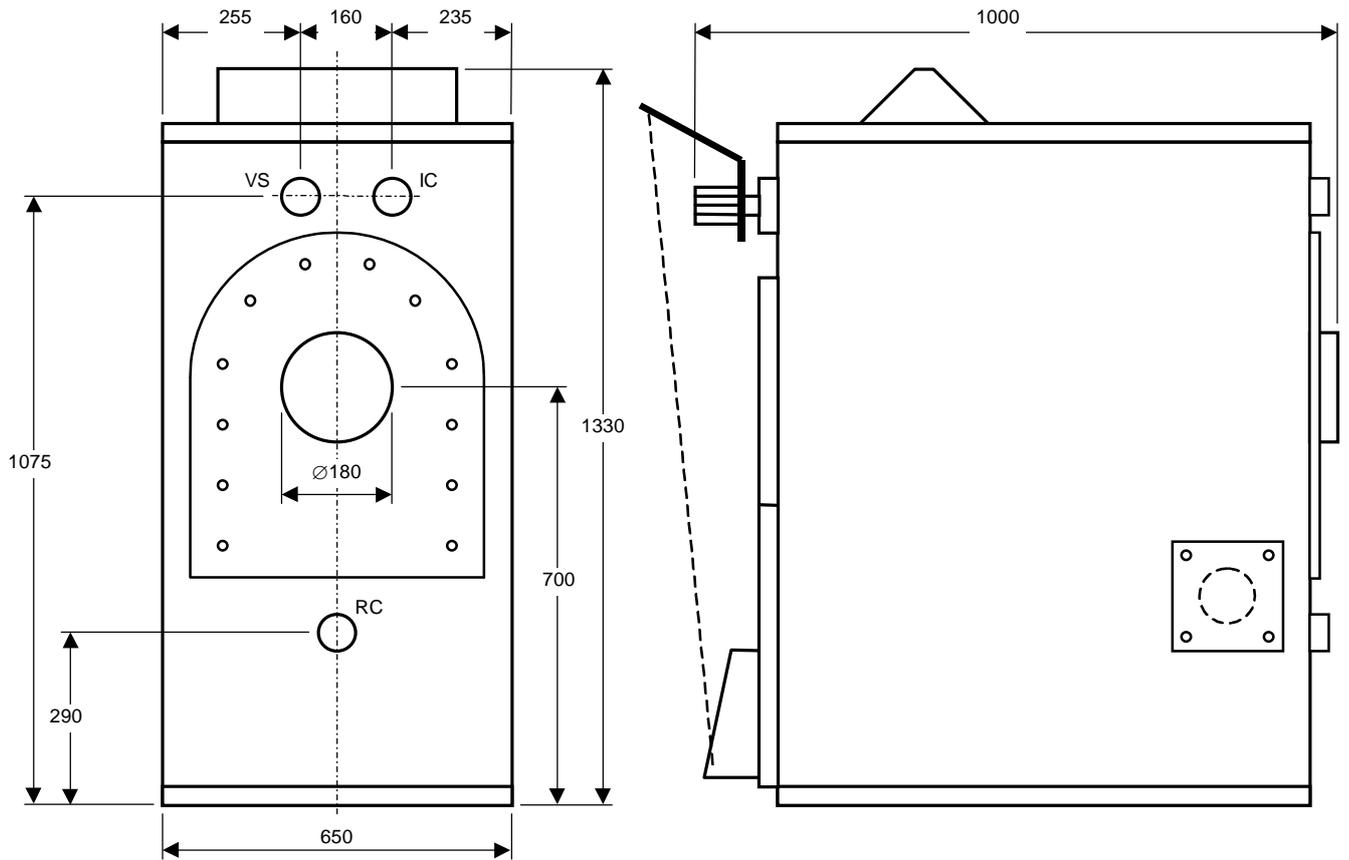
The Technical Assistance Service, once the first start-up has been carried out, will explain the boiler operation to the users by informing them about the most necessary remarks.

The fitter will be responsible for explaining to the users the operation of any control or regulation device that is a part of the installation and it is not supplied with the boiler.

### **7.- BOILER MAINTENANCE**

In order to maintain the boiler under correct operating conditions, a checking operation is to be made by DOMUSA TEKNIK's authorised personnel on a yearly basis. Once a year, we recommend to clean carefully the boiler combustion chamber and flue gases pipes. It is very important to ensure always that the boiler is full of water and that the circulating pump works correctly.

## 8.- DIMENSIONS

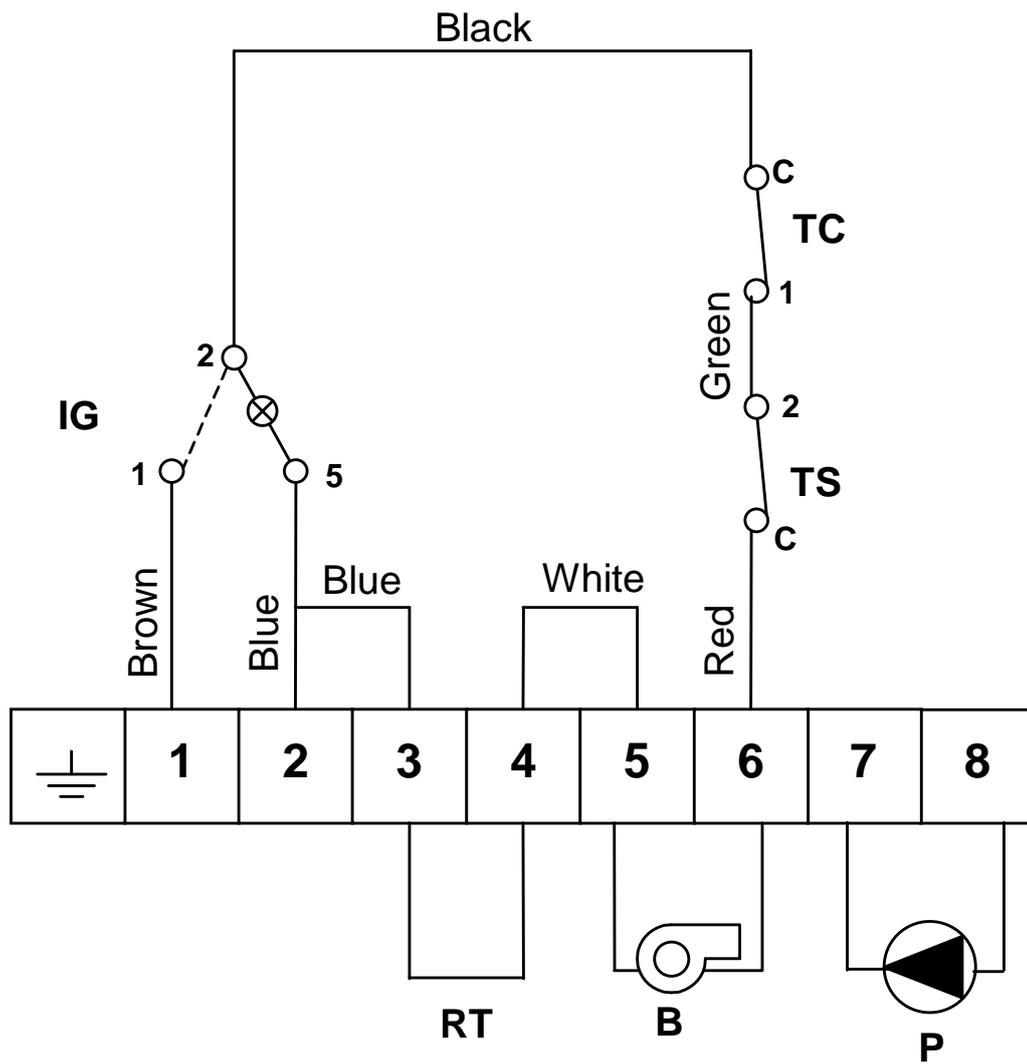


**IC:** Heating outlet.

**RC:** Heating inlet.

**VS:** Pressure relief valve.

9.- ELECTRICAL DIAGRAM



- B:** Burner.
- P:** Pump.
- RT:** Room thermostat.
- TC:** Control thermostat.
- TS:** Security thermostat.

## 10.- FAILURES

This section provides an index of the most common failures in both the burner and boiler.

### 10.1.- Burner failures

It has already explained that the burner is equipped with a locking system indicated by a light, and it could unintentionally occur that it becomes locked making the push button be put on. In this case, unlock it by pressing the push button.

FAILURE	CAUSE	REMEDY
IT DOES NOT PUT ON	<ul style="list-style-type: none"><li>- Oil valve closed</li><li>- Power supply is not reaching the boiler</li><li>- Nozzle faulty or dirty</li><li>- Poorly-adjusted electrodes</li><li>- Timer at automatic position</li><li>- Poorly-set room or boiler thermostat</li></ul>	<ul style="list-style-type: none"><li>Open</li><li>Check</li><li>Replace or clean</li><li>Adjust</li><li>Set it to manual</li><li>Set properly</li></ul>
FREQUENT LOCKING	<ul style="list-style-type: none"><li>- Nozzle faulty</li><li>- Flame sensor dirty</li><li>- Fume circuit clogged</li><li>- Oil filter or burner pump dirty</li></ul>	<ul style="list-style-type: none"><li>Replace</li><li>Clean</li><li>Clean</li><li>Clean</li></ul>

### 10.2.- Boiler failures

FAILURE	CAUSE	REMEDY
RADIATOR DOES NOT HEAT	<ul style="list-style-type: none"><li>- The pump does not rotate</li><li>- Air in hydraulic circuit</li></ul>	<ul style="list-style-type: none"><li>Unlock the pump</li><li>Purge the installation and boiler (The air vent plug is always to be loose)</li></ul>
EXCESSIVE NOISE	<ul style="list-style-type: none"><li>- Poorly-adjusted burner</li><li>- There is no sealing on the uptake</li><li>- Unstable flame</li><li>- Uptake with no thermal insulation</li></ul>	<ul style="list-style-type: none"><li>Adjust properly</li><li>Eliminate the leakage</li><li>Check the burner</li><li>Insulate properly</li></ul>

# DOMUSA

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