

Fit the operating instructions in a clearly visible place near the boiler.



Your heating system must only be connected and adjusted by a qualified heating contractor.

The installer should make the system user familiar with the function and operation of the boiler.

#### Safety instructions



##### Risk to life

Non-observance of these references can lead to health risks to individuals and may lead to material losses.



##### In case of fire risk

- Immediately shut OFF the emergency stop switch of the heating system (if outside the boiler room)
- Close the gas shut-off valve
- Use a suitable fire extinguisher (fire class B according to DIN 14406)



##### Risk of explosion if you smell gas

- Prevent naked flames or the formation of sparks (e.g. by switching lights or electrical appliances ON or OFF)
- Open windows and doors
- Close the gas shut-off valve
- Notify your local heating contractor



##### Risk of poisoning if you smell gas

- Shutdown system
- Open windows and doors
- Notify your local heating contractor



##### Location

Explosive or easily combustible materials (e.g. petrol, paints, paper) must not be used or stored in the boiler room. Otherwise there is a high risk of fire.

#### Fuel

Fuel oil EL according to DIN 51603 town gas, natural gas, piped gas and LPG according to DVGW Code of Practice G260/1 or local regulations.



##### Heating system modifications

Users must never carry out any modifications on the boiler, the pipework/cables for gas, power, water, ventilation air and flue gas. Only a qualified contractor should carry out such work to prevent the above risks, as far as possible.

##### Note System damage

Non-observance of these instructions can lead to damage to the boiler and the heating system.

##### Note Risk of frost

The control unit protects the boiler and the DHW cylinder against frost. The risk of frost cannot be totally avoided, e.g. during longer power failures. Therefore, install the boiler and the DHW cylinder only in rooms which are free from the risk of frost. Should there be a risk of frost during longer idle periods, e.g. when the heating system is switched off, ask your local heating contractor to drain the boiler, DHW cylinder and the heating system to prevent pipes from bursting.

##### Note Corrosion, boiler damage

- The combustion air must be free from halogenated hydrocarbons (e.g. as contained in sprays, solvents, cleaning fluids, paints and adhesives). These could cause accelerated pitting of the boiler body.
- Avoid severely dusty conditions in the boiler room, otherwise the burner may be damaged.

#### Burner

Fully automatic pressure jet oil burner according to DIN 4787 or DIN EN 267.

Fully automatic pressure jet gas burner according to DIN 4788.

Observe the burner manufacturer's installation instructions when commissioning the burner. For commissioning the pressure jet oil burners Premio and TH-burner see installation and operating instructions.

Contact your heating contractor if your boiler develops any faults.

### Holiday program

Pressing the „Sunday“ key before 12:00 h changes the switching times program for the same day, and pressing the „Sunday“ key after 12:00 h changes the switching times program for the same day and the following day. The program automatically resets itself.

### Summer/winter changeover

ON/OFF switch

Fuse M6.3 A

High limit safety cut-out



Left-hand rotary program selector

### Right-hand rotary temperature selector

By turning the temperature selector, the room temperature can be raised or lowered by a maximum of 4 K. The selected value is indicated by an arrow on the r.h. side of the display.


**Note:** The set room temperature can only be accurately maintained in conjunction with a remote control. The selected room temperature acts as reference value only, when no remote control unit is used.

## Program selection

Rotating the l.h. rotary selector enables the following heating programs to be selected: (the arrow on the l.h. edge of the display indicates the selected program)



### Flue gas test by local contractor/chimney sweep

Selecting symbol  activates the emissions test. An arrow indicates the last program selected and the emissions test mode. The boiler water temperature will be regulated to 60 °C by switching the pumps ON and OFF. Without heat transfer, the boiler heats to the maximum set boiler temperature. After 25 minutes, the system automatically returns to the last heating program selected.



### Economy mode for 24 h

DHW loading in accordance with the switching times program.



### Central heating OFF (summer mode)

Frost protection ensured DHW loading according to switching times program.



### Manual mode

DHW water and boiler water temperature in accordance with parameter settings at the contractor level. Burner and pumps have been switched ON.

### Auto Automatic mode

Central heating and DHW loading in accordance with switching times program.



**Central heating OFF; DHW loading OFF** Frost protection ensured.



### Heating for 24 h

DHW loading in accordance with the switching times program.

**R11 control unit****ON/OFF switch****Burner fault display****High limit safety cut-out****Boiler thermostat**  
adjustable to 90 °C**Boiler temperature display****R11-SB control unit****Summer/winter switch****Burner fault display****ON/OFF switch****High limit safety cut-out****Boiler thermostat**  
adjustable to 90 °C**Boiler temperature display****DHW cylinder thermostat**

### Before commissioning



Depending on your specific heating system, the safety equipment must be tested by a heating contractor.

The heating system must be completely filled with water. Subject to boiler output and operating temperature of the heating system, the water quality for heating systems is regulated by DIN 2035 and „Vd TÜV guidelines for water quality in heating systems with hot water boilers“ (in Germany) or by local regulations. Observe the system pressure. If necessary top up with water. Never use boiler water for domestic use. Check whether the ventilation of the boiler room is ensured in accordance with local regulations. Check your oil supply.



The air supply to the boiler must not be obstructed, **otherwise there is a risk of suffocation.** Never position objects directly by the boiler - maintain a minimum clearance of 20 cm, **otherwise there is a high risk of fire.**

**Fill with fuel oil only whilst heating system is switched OFF.** After filling, wait a few hours before restarting the heating system.

### Filling the heating system

Connect a water hose to the boiler fill and drain valve and open the mains water tap. Open the boiler fill and drain valve to provide a moderate flow rate and fill to approx. 1.5 bar. Check the water pressure at the pressure gauge. Vent the heating system. The boiler must be topped up, since heating water will only fully degass after several hours heating operation. Generally leave the system full - except where there is a risk of frost.

### Initial start-up



The system must be commissioned by the system installer or a heating contractor authorised by the installer.

Open the oil supply line shut-off valves. Switch ON the heating system emergency stop switch. The burner control unit implements a self-test; the fault lamp on the control unit lights up for approximately 2 seconds.

Adjust the control unit (see reverse and control unit operating instructions).



**Note** Regularly check the water level or pressure in the heating system and top up with water, if necessary and vent the system. Enter the setting values and test results into the commissioning report.

In accordance with the 1st BImSchV, the commissioning of the heating system must be notified to the relevant authorities within four weeks (not universally applicable).

### Shutting down

Switch OFF the ON/OFF switch (position 0). Close the oil supply line shut-off valves.

### Burner fault

This will be indicated by a red indicator lamp on the burner and by symbol  and  on the control unit (only for R12, R16, R20); for R11, R11-SB the indication is by an orange fault lamp.

To remove a burner fault press the reset button on the burner control unit (for ComfortLine, the reset button is located under the acoustic hood).

If the burner enters a fault state again, ask your local heating contractor for support.

### **Note** Flue gas temperature

For flue gas temperatures below 160 °C, combustion equipment must be connected to highly insulated chimney stacks (heat conductivity resistance class I acc. to DIN 18160 T1) or use suitable, moisture-resistant flue gas systems, which have been type-approved.

### Draining the heating system

Only drain the heating system when the boiler is not in use and the heating water has cooled down to approximately 40 °C, **otherwise there is a risk of scalding.** Open the drain tap on the boiler. Open the radiator valves and the air-vent valves.

### Annual inspection by the chimney sweep

Start up the system.

Check the flue gas in accordance with the instructions on the reverse or the control unit operating instructions.

### **Note** Maintenance

To ensure the reliable and safe function of a heating system, users are required to have it checked and cleaned on an annual basis by an approved heating contractor (check local regulations). Switch OFF the boiler when cleaning the boiler room.

**We would recommend a maintenance contract.**