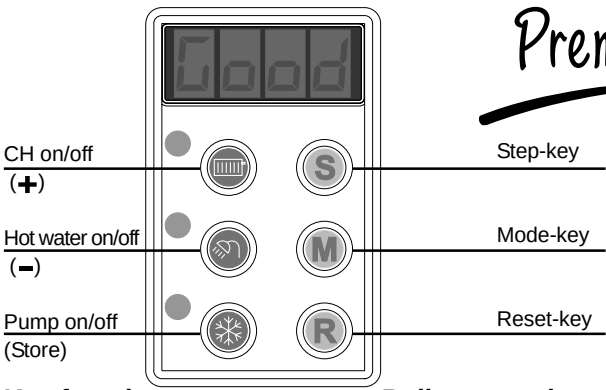
Operating instructions

ATAG Premier



Key functions

The control panel has a number of push-buttons with corresponding lights. The meaning of these push-buttons is explained as follows.

Press this key in order to turn on and off the central heating program.

Press this key in order to turn on and off the hot water program.

Press this key in order to let the circulation pump circulate according to the automatic switch program or continually via the central heating installation.

The indication lights (left of the keys) are illuminated if the corresponding program is active. The push-buttons are also provided with secondary functions. These functions will be discribed further on in these Operating instructions.

Boiler controls

The boiler will show Good during normal operation of the appliance. Should a fault develop this will be shown on the display. In the technical read out mode (see page 5) the additional readings can be accesed and displayed (the third and fourth figure indicates the water temperature of the boiler).

- 0 No heat requirement
- 1 Ventilation phase
- 2 Ignition phase
- 3 Burner active on central heating
- 4 Burner active on hot water
- 5 Fan check
- 6 Burner off when room-thermostat is demanding
- 7 Pump overrun phase for central heating
- 8 Pump overrun phase for hot water
- 9 Burner off because of too high flow water temperature
- A Automatic venting programme

8G.52.18.01/02.06 *We reserve the right to make changes.*

Contents

Introduction

This Operating instruction discribes the operating and running of the ATAG Premier. While developing the ATAG Premier it has been taken into account that the boiler adjusts and adapts itself to the required temperatures.

It is of course possible to adjust for each installation type different settings. In most situations the installer will deliver the boiler ready for you to use.

Despite the intelligence and the operational comfort of the boiler, for you as a user, it can be beneficial to know about the operation of the boiler. This will be discribed in the next chapter.

Description of the boiler

The ATAG Premier is a room sealed condensing and modulating central heating boiler which is designed with a hot water facility.
A built in ventilating fan sucks in the combustion air from outside and provides for a complete premixing of gas and air.
The gas mixture is lead through a ceramic burner which is fitted directly above the heat exchanger.
Due to the small flame height a compact construction is possible. After the combustion gasses have passed through the stainless heat exchanger, they are flued to outside.
Any condensation formed is drained away to waste.
The ATAG Premier E-SHR-T is a boiler designed with an integrated hot water facility and is provided with a plate-heat exchanger which supplies a constant water temperature of 60°C.

The unit anticipates the heat required by the heating installation and/ or hot water facility.
By doing so as low as possible heat input is given for the required output.

The boiler is provided with an electrical ignition and energy saving pump start to prevent waste of energy.
As a result unnecessary system noise is prevented.

When the boiler has been out of operation for a long period of time the circulation pump will periodically start to prevent seize up. If an outside sensor has been connected to the unit, the circulation pump will start automatically when there is a chance of frost. This is the first stage of frost protection to prevent the danger of freezing.

The efficiency of the boiler is very high and the radiation convection and standby losses very low. The emission of noxious substances is far below the fixed standards so the boiler meets the requirements of SEDBUK Class A and carrys the energy saving logo.

The boiler

The casing of the boiler consists of synthetic material which can be cleaned with a normal non-abrasive cleanser. After opening the door, the control panel with the function keys is clearly visible. The control panel is provided with a number of push-buttons with corresponding lights.

Program keys with indication lights

Press this key in order to turn on and off the central heating program. This program will become active when the key is pushed and the indication light is illuminated. In this case the boiler will activate the burner when the room thermostat is calling for heat.

Secondary function -key: raises (+) a certain value in the PARA-chapter (see page 6)

Press this key in order to turn on and off the hot water program. This function only works in the case of an boiler on which a hot water facility is connected. This programm will become active when the key is pushed and the indication light is illuminated. In this case the boiler will activate the burner when the calorifier thermostat is calling for heat.

Secondary function -key: lowers (-) a certain vaue in the PARA-chapter (see page 6)

Press this key in order to let the circulation pump circulate according to the automatic switch program or continually via the central heating installation. The circulation pump will circulate continually via the central heating installation when the key is pushed and the indication light is illuminated. In most situations the program can stay on automatic, so that the circulation pump starts functioning as desired for central heating or hot water. If an outside sensor is connected to the unit the pump will start automatically in case of a low outside temperature in order to reduce the chance of freezing.

During severe frost: It is possible when there is no outstide sensor connected, to choose manually to let the circulation pump circulate continually to reduce the chance of freezing in the case when there are pipes (garage, attic or other cold spaces / rooms) which are sensitive to frost.

Secondary function ❄-key*: storing (Store) of value in the* PARA*-chapter (see page 6).*

The Good reading

During this reading the display will only show what is necessary. Under normal circumstances the display will give a Good reading and if a fault is established this will be reflected with the E for error and a certain number code.

Choosing a technical or a Good reading.

In order to switch from a Good reading to a technical reading for example 0 49 the step key should be pushed for 5 seconds.
To return to the Good reading the step key should be pushed for 5 sec-onds again.

The technical reading 0 49

During this reading the display will show in which operating status the boiler is active. The technical reading 0 49 is being repeated every 2 seconds along with the reading of the waterpressure P 1.9.
The first figure of the technical reading 0 49 indicates the status in which the boiler is active and the third and fourth figure indicate the water temperature of the boiler. In case of the reading P 1.9 the character P stands for pressure which represents the waterpressure. The third and fourth figure indicate the water-pressure in bar. When a fault occurs it will be shown by the E of Error with a numbercode.

The Reset key(●)

The control panel is provided with a reset key. When a fault occurs it will be shown by the flashing **E** of Error with a certain numbercode after which the boiler is shut down. After pressing the reset key (●)you can try to start the boiler again. If the defect keeps returning contact your installer.

Adjusting the flow water temperature

For the user who has chosen the technical reading according to page 5 you can easily adjust the flow water temperature to his or her own wish. In order to adjust the flow water temperature the following actions have to be taken.

- Push the mode key briefly. (●).
  The display will show the text PARA *which means that in this chapter adjustments can be made.*
- Push the step key (●).
  The display will now show 1 85 *The first figure indicates which adjustment is being shown and the third and the fourth figure shows the value of this adjustment. The standard adjustment is 85°C flow water temperature.*
- By means of the + or - key this value can be changed.
- Push the Store key (✱) to confirm the adjustment.
  The display will flash once.
- Push the Mode-key briefley (●).
  The technical reading is shown again.

The flow water temperature that has been adjusted only applies to the central heating and is independent of the hot water facility for the calorifier.

Adjusting the type of installation

The boiler is designed in such a way that it will adjust itself automatically to what is necessary for a normal heating system. In some cases the installation may have convectors or complete underfloor heating. One can easily choose the type of heating installation adjustments that belongs to the system such as maximum flow water temperature or for the warming up of the installation after a night period. To make adjustments:

- Push the step key ( )again after the adjustment of the maximum flow water temperature is shown the reading 1 85.
  The display will show the reading 2 01. This means that in this case adjustment 1 is active, and that, for this installation type 1 has been chosen.
- By means of the ( ) + or the ( )- key the desired installation type can be chosen.
- The choice has to be confirmed with the store key( )
  The display will flash once after which one can return by means of the mode key ( ) to the Good reading or the technical reading 0 49.

Installation choice	type of central heating system	flow water temperature
1	radiators and air heating convectors	85°C
2	radiators with large surface areas or underfloor heating	70°C
3	underfloor heating with radiators for extra heating	60°C
4	complete underfloor heating	50°C

◯ = *factory setting*

Described above is which installation type can be chosen.

When a type of installation has been chosen with a low flow water temperature it is possible that in case of a severe winter period the temperature of the heating system will need to increased slightly. In such situations the installation choice may need to be changed, so a higher flow temperature can be chosen.

More adjustments are defined in the installation instructions.

Replenishing or complete filling up of the installation

The installation functions at an optimum water pressure of between 1,5 and 2 bar. If the step key is pushed briefly, the water pressure can be shown. After this the waterpressure P 1.9 is shown. When the step key (●) is pushed again briefly one will return to the Good reading.

When the water pressure drops below 1 bar the display will automatically show the text FILL. This FILL text is being interchanged with the normal display reading Good.
During this display reading the boiler will only function at a reduced output. When the water pressure is sufficiently high again (above 1,5 bar) the FILL text will disappear and the boiler will return to the normal act. If the water pressure drops further and comes below 0,7 bar the display will show a flashing FILL text. After this the boiler will switch off and will only function again when the waterpressure comes above 1,5 bar.

Turning the boiler off

Holiday period: Adjust the Brain thermostat to the holiday period. See the thermostat manual for this operation. When there is no Brain thermostat present the room thermostat or the regulation on the night temperature can be adjusted and the hot water facility can be switched off by means of the program key on the control panel.

Activities: Switch off the three program keys, when these are activated. When the boiler is being drained one should take into account that a part of the heating water will stay in the boiler. When the situation of frost danger arises one should take care that the remaining central heating water in the boiler will not freeze.

When detected, errors are indicated on the display. Some, of a temporary nature, will not usually result in the boiler locking out. Whilst the control system will try its utmost to prevent lockout, and may temporarily switch off the unit, any fault which could potentially damage the appliance will result in lockout. There are two categories - i.e. Blocks and Errors.

i.e. Error indication (with a flashing number in the third and fourth display position)

short-circuit of 24 volt circuit

no flame-forming

maximum supply temperature exceeded

Water pressure indications

Water pressure is too low (<1,0 bar), flashing FILL will be altered with indication of water pressure, unit power of 50% is possible. The installation needs to be topped up.

Water pressure is too low (<0,7 bar), FILL indication remains continuously visible, the unit is taken out of operation. The installation needs to be topped up.

Water pressure is too high (>3,5 bar), HIGH indication remains continuously visible, the unit is taken out of opera-tion. The installation pressure needs to be decreased by draining water.

General Comments

Take into account that all hot water taps are carefuly closed. The boiler gives priority to hot water instead of the central heating. When there is a leaking hot water tap, the boiler will switch off the central heating.

The frequency of maintenance

We advise that an inspection of the boiler is carried out every two years and an overhaul every four years. When doing this the circumstances of the boiler's location and current gas safety regulations must be taken into account. From this one can determine whether to deviate from this advice.

Your installer information:	
Name installer:	
Place of business:	
Person to be contacted:	
Telephone number:	
Telephone number after business-hours:	

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