Operating instructions

Sealed combustion boiler Logano GA124 SC

WARNING!

If these instructions are not followed exactly, a fire or explosion may be caused with serious property damage or loss of life and serious injury.

 Do not store or use gasoline or any other flammable vapors or liquids in the vicinity of this system or any other heating system.

IF A SMELL OF GAS IS DETECTED:

- Do not switch on any electrical appliances.
- Do not operate electrical switches; do not use a telephone in the building.
- Call gas company immediately from outside the building. Follow these instructions.
- If you cannot reach your gas company, call the fire department.
- The heating system must only be installed and serviced by a qualified service company, a qualified service or gas supply company.











NOTE! Please keep these instructions for future reference.

1 For your safety

The Logano GA124 SC gas-fired boiler is designed and manufactured in accordance with in state of the art in technology and safety. Particular emphasis is placed on ease of operation. We recommend reading and following the safety instructions and operating manual for safe, economical and environmentally responsible operation of the heating system.

1.1 Correct use

The Logano GA124 SC gas-fired boiler is designed to heat water using indirect domestic hot water tanks and space for heating single or multi family buildings.

1.2 Notes structure

Additional symbols for identification of dangers and user instructions.



RISK TO LIFE

Identifies possible dangers emanating from a product, which might lead to serious injury or death if appropriate care is not taken.



RISK OF INJURY/ SYSTEM DAMAGE

Identifies potentially dangerous situations, which might lead to medium or slight injuries or to property losses.



USER NOTE

Information on optimum utilization and setting of the control(s) plus other useful information.

1.3 Please observe these safety instructions

Improper operation of the boiler may cause property damage.

- Only use the boiler for the intended purpose and only if it is in perfect working order.
- Have the heating system installed by a heating contractor.
- The contractor must give detailed instructions on the operation of the heating system.
- Please read these operating instructions carefully.



RISK TO LIFE

due to neglecting your own safety in case of emergency, such in case of a fire.

 Never put yourself at risk. Your own safety must always take priority.

1.3.1 Boiler room



BOILER DAMAGE AND OPERATING DEFECTS

due to missing or inadequate openings for combustion air and venting of the boiler room.

- Make sure that inlets and outlets are not obstructed or blocked off.
- If defects are not corrected immediately, the boiler must not be operated.



FIRE DANGER

due to flammable material or liquids.

 Do not store flammable material or liquids in the immediate vicinity of the heat generator.



SYSTEM DAMAGE

through frost.

 Make sure that the boiler room is protected from freezing.

1.3.2 Working on the heating system



RISK TO LIFE

from explosion of flammable gases.

- Make sure that a qualified company installs the boiler, connects gas, oil and flue connections, places the boiler in operation, connects the electrical power, and maintains and repairs the boiler.
- Make sure that a licensed contractor carries out all work on gas transmission parts.

Additional important system

- Do not operate if any part is under water. Contact a qualified customer service technician immediately to have the unit checked and to replace the parts of the control and gas fittings that were under water.
- If the system overheats or the gas supply does not shut off, do not switch off or interrupt the power to the pump. Instead shut off the gas supply at a point outside the heating system.
- The flue system must be inspected and cleaned once a year. All parts that show any signs of damage by corrosion or other causes must be replaced.
- The boiler must be serviced by qualified boiler service company once a year. The inspection must include the main burner, ignition burner, fan shroud, combusion air tube, the complete flue system and the venting openings or venting equipment. All parts that show any signs of damage from corrosion or other causes must be replaced.

2 Product description

The boilers are low temperature gas-fired boilers.

The boilers consist of:

- Automatic ignition module (GA124 SC only) and Aquasmart control
- Boiler jacket and front panel
- Boiler block with insulation
- Burner

The automatic ignition and the Aquasmart control monitor and control all electrical components of the boiler.

The boiler jacket and invulation prevent energy loss and provide soundproofing.

The boiler block transfers the heat generated by the burner to the boiler water.

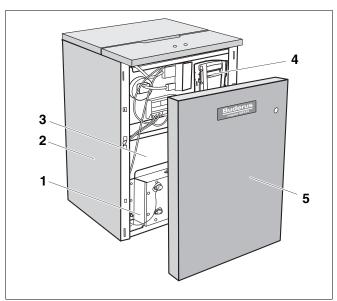


Fig. 1 Logano GA124 boiler

- 1 Burner
- 2 Boiler jacket
- 3 Boiler block with insulation
- 4 Aquasmart (control unit)
- 5 Boiler front panel

3 Start-up instructions

For your own safety read the instructions before start-up.



RISK TO LIFE

due to not observing the start-up instructions and resulting incorrect operation.

- If these instructions are not followed exactly, a fire or explosion may be caused with serious property damage or loss of life or serious injury.
- Observe the start-up instructions.



DANGER OF EXPLOSION

If you smell gas, there is a danger of explosion.

- No open flame. No smoking.
- Prevent spark generation.
 Do not operate electrical switches, telephones, plugs or door bells.
- Close main gas valve.
- Open doors and windows.
- Warn other occupants of the building.
- Evacuate the building.
- Call gas company, heating service company or fire department from outside the building.

A For GA124 SCI

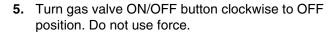
This unit is with an ignition system that automatically starts the burner. Do not attempt to ignite it manually.

- **B** Check for an odor of gas around the heating system. This test must also be conducted at floor level, because some types of gas are heavier than air and may accumulate at floor level.
- C Switch on the ON/OFF switch on the gas valve by hand only. Never use a tool as assistance. If you cannot actuate the ON/OFF switch on the gas valve by hand, do not attempt to repair it. Contact a qualified technician. Any attempt to use force or to repair the switch may cause a fire or explosion.
- Do not operate the unit if any part is under water. Contact a qualified customer service technician immediately to have the unit checked and to replace the parts of the control and gas valve that were under water.

3.1 Operating instructions for GA124 SC

STOP! First read the safety instructions on → page 5 of these instructions.

- Set thermostat to the lowest value.
- **2.** Disconnect the heating system from the power supply.
- 3. Shut off main gas supply valve.
- **4.** Remove screws from the left and right side panels, then lift the front panel off the boiler and pull it forward.

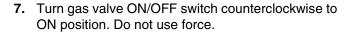


6. Wait five (5) minutes until all gas residues have dissipated. Check whether there is still any smell of gas, including at floor level. If there is a gas odor: STOP! Follow instructions in section "B" of the safety instructions in (→ Chapter 3, page 5). If there is no sign of a gas odor, continue with the next step.



USER NOTE

This unit is fitted with an ignition system that automatically starts the pilot burner. Do not attempt to ignite it manually.



- **8.** Attach front panel of boiler (\rightarrow Fig. 3).
- 9. Open main gas supply shut-off.
- 10. Switch on electric power to heating system.
- **11.** Set thermostat to desired room temperature.
- 12. If the heating system does not start operating, follow the instructions for "switching off gas supply to boiler" (→ Chapter 3.2, page 7) and inform your service technician or your gas supply company.

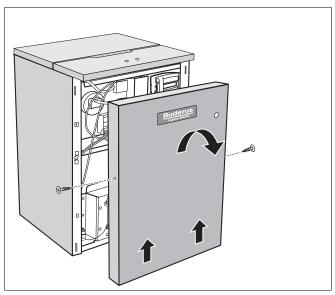


Fig. 2 Removing front panel of boiler

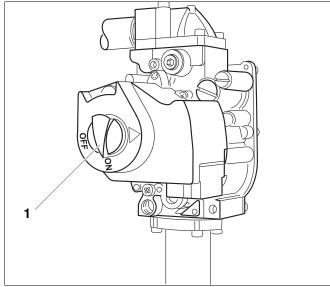


Fig. 3 Gas valve

1 ON/OFF button on gas valve

3.2 Shutting off gas supply to boiler

- 1. Set thermostat to the lowest value.
- **2.** Disconnect heating system from the power supply before carrying out maintenance work.
- 3. Remove front panel of boiler

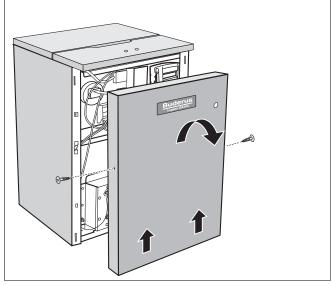


Fig. 4 Remove front panel of boiler

- **4.** Turn gas valve ON/OFF button clockwise to OFF position. Do not use force.
- 5. If necessary, shut off main gas supply shut-off.
- 6. Replace front panel of boiler.

Flame roll-out switch

The boiler is equipped with a flame roll-out switch. If the flue duct in the boiler is blocked, the flame roll-out switch responds. Do not try to switch on the boiler. Inform a qualified service company. The flue duct in the boiler must be checked for blockage and the flame roll-out switch replaced. The flame roll-out switch is for one-time use only, and cannot be reused.

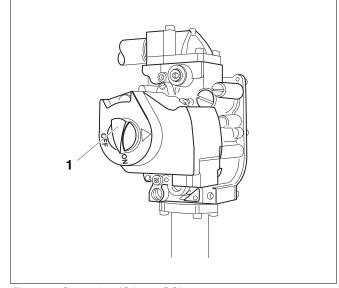


Fig. 5 Gas valve (GA124 SC)

1 ON/OFF button (at ON position)

4 Shutting down of the boiler

4.1 Normal boiler shut-down

- Switch off ON/OFF switch ("OFF" position). This shuts down the boiler with all components (e.g. burner).
- 2. Additional shut-down procedure → follow the directions supplied with Aquasmart.

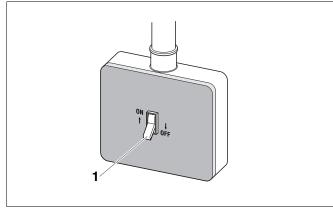


Fig. 6 Shutting down heating system (with aquasmart)

1 ON/OFF switch (main switch)

3. Shut off main fuel supply valve.



SYSTEM DAMAGE

through frost.

CAUTION!

The heating system can freeze up in cold weather if it is shut down.

- Leave the heating system switched ON constantly as much as possible.
- Protect the heating system from freezing by draining the heater and water pipes at the lowest point.

4.2 Emergency shut-down

Inform your customer of the procedure in case of emergency, such as a fire.

- 1. Never put yourself at risk. Your own safety must always take priority.
- 2. Shut off main fuel supply valve.
- Shut down the heating system with the heater emergency switch or the corresponding circuitbreaker.





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