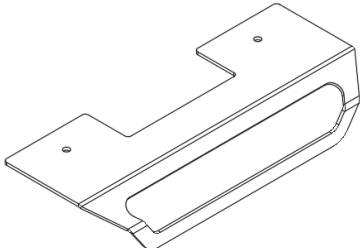
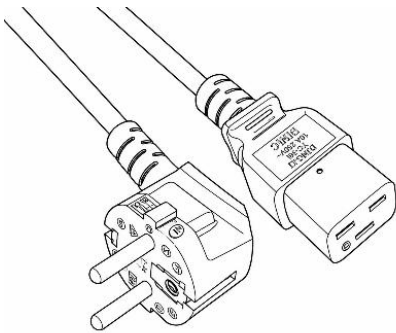
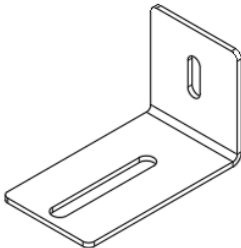
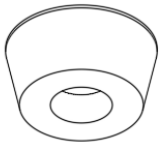
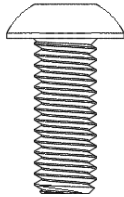


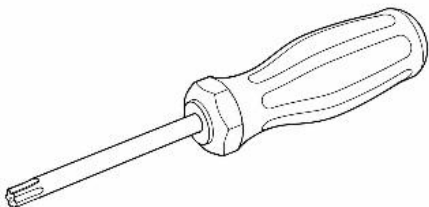
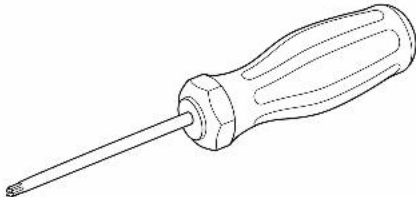
Installation and operating instructions for the MH250-F furnace

Language version: English

1. Package contents

 Door handle 1 pc.	 Power cord with C19 plug 1 pc.	 Mounting bracket 2 pcs.
 Set of furnace feet 4 pcs.	 M4 x 10 mm mounting screws, T25 4 pcs.	 M4 x 14 mm mounting screws, T20 4 pcs.

2. Tools required for installation

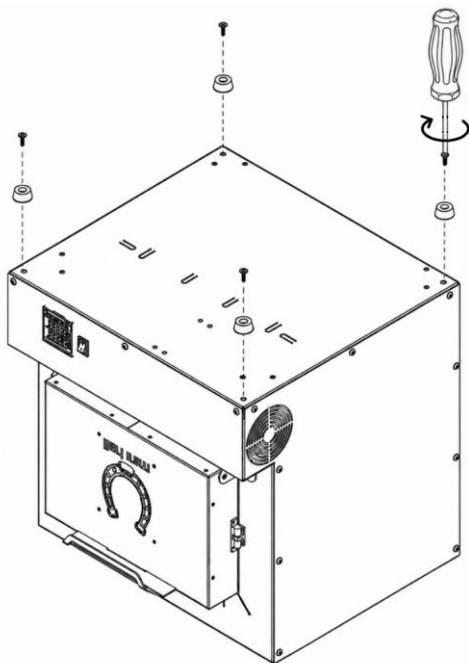
 Torx T25 screwdriver	 Torx T20 screwdriver
--	---

3. Installing the device

BEFORE INSTALLATION: Place the device on a stable surface and follow the steps shown in the illustrations. Use the correct size Torx screwdriver.

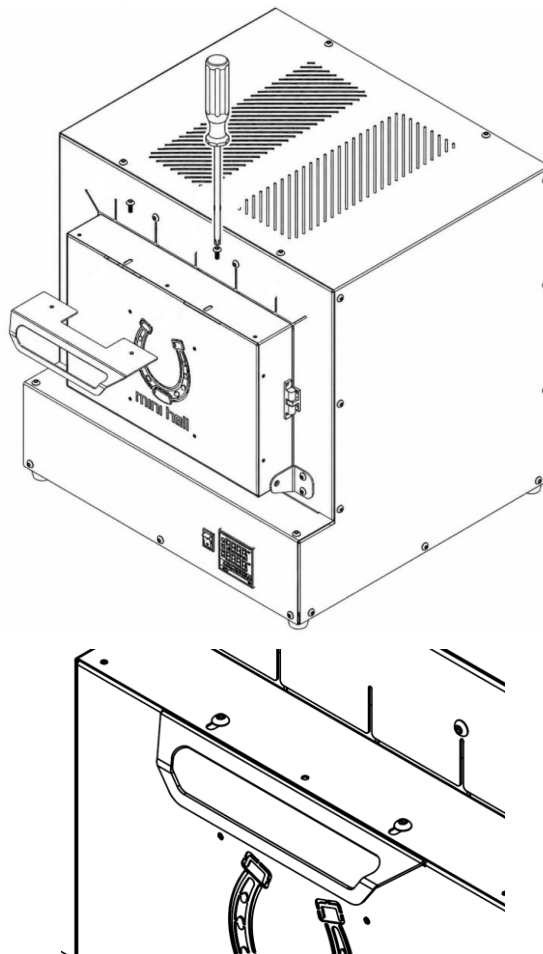
STEP 1 | Installing the feet

Attach the four feet to the base of the furnace using M4 x 14 mm screws (T20). Use a Torx T20 screwdriver.



STEP 2 | Installing the handle

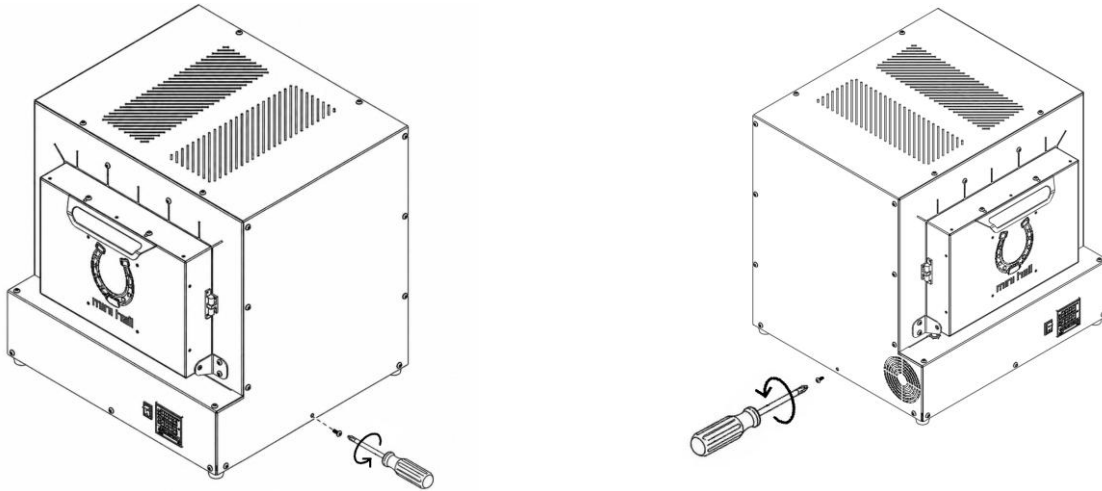
Attach the door handle using M4 x 10 mm screws. Use a Torx T25 screwdriver.



3.1. Installing the mounting brackets

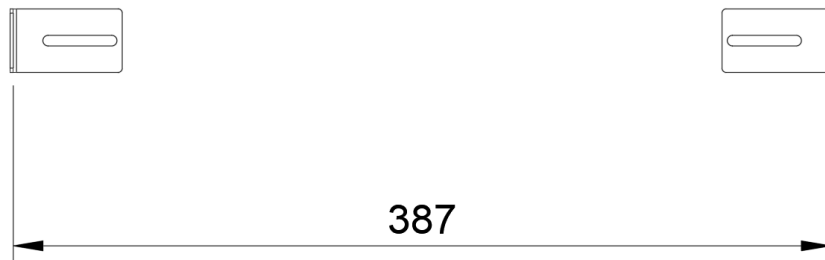
STEP 3 | Removing the side screws

Remove the indicated screws from the bottom row on both sides of the furnace. The holes will be used to secure the furnace to the brackets.



STEP 4 | Positioning the brackets

Position the brackets on the surface to which the furnace will be mounted. The distance between their inner faces must be exactly 387 mm.

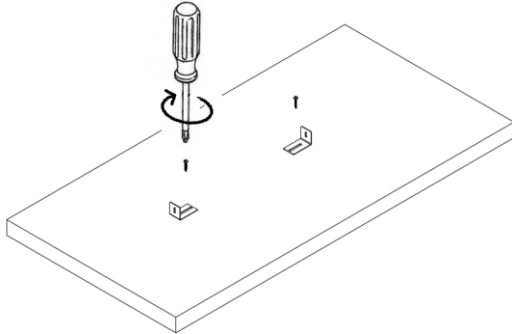


IMPORTANT: After securing the brackets, check the 387 mm dimension again. The correct spacing will allow the furnace to slide between the brackets.

3.2. Securing the furnace to the surface

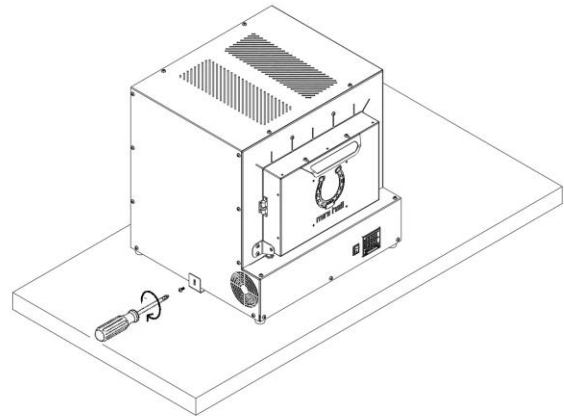
STEP 5 | Securing the brackets

Secure the brackets to the worktop using wood screws. After tightening, check the 387 mm dimension again.



STEP 6 | Securing the furnace

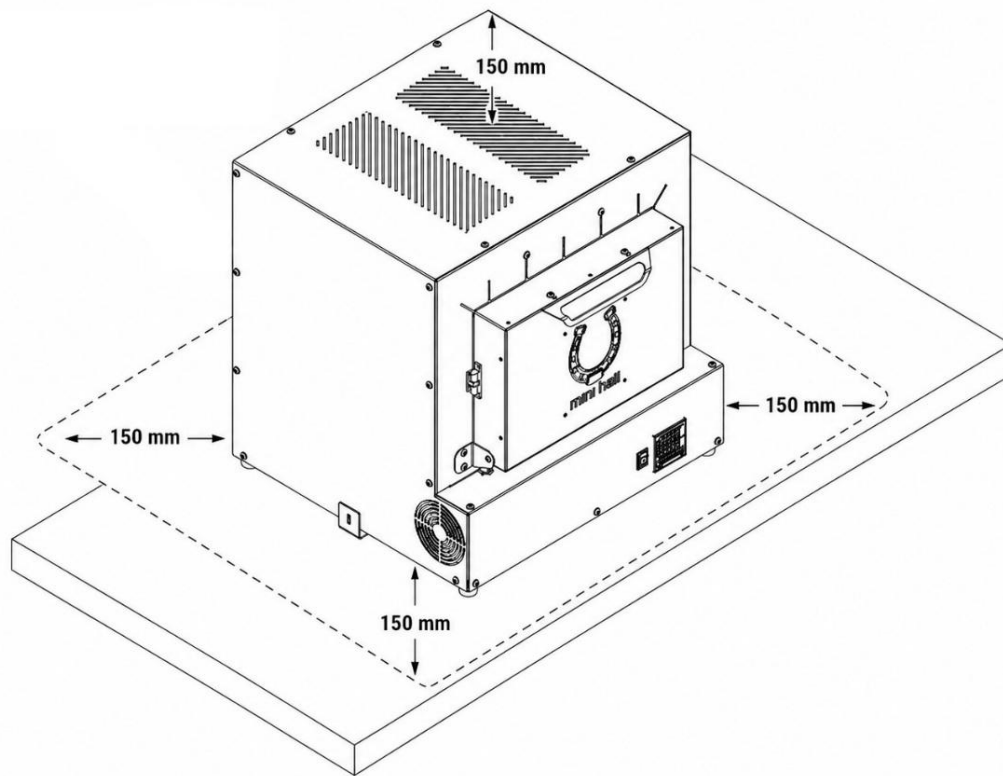
Slide the furnace between the brackets, then secure it using the supplied M4 x 10 mm screws. Use a Torx T25 screwdriver.



CHECK AFTER INSTALLATION: Check that the device is stable and that all fastening elements are properly tightened.

4. Safe positioning of the device

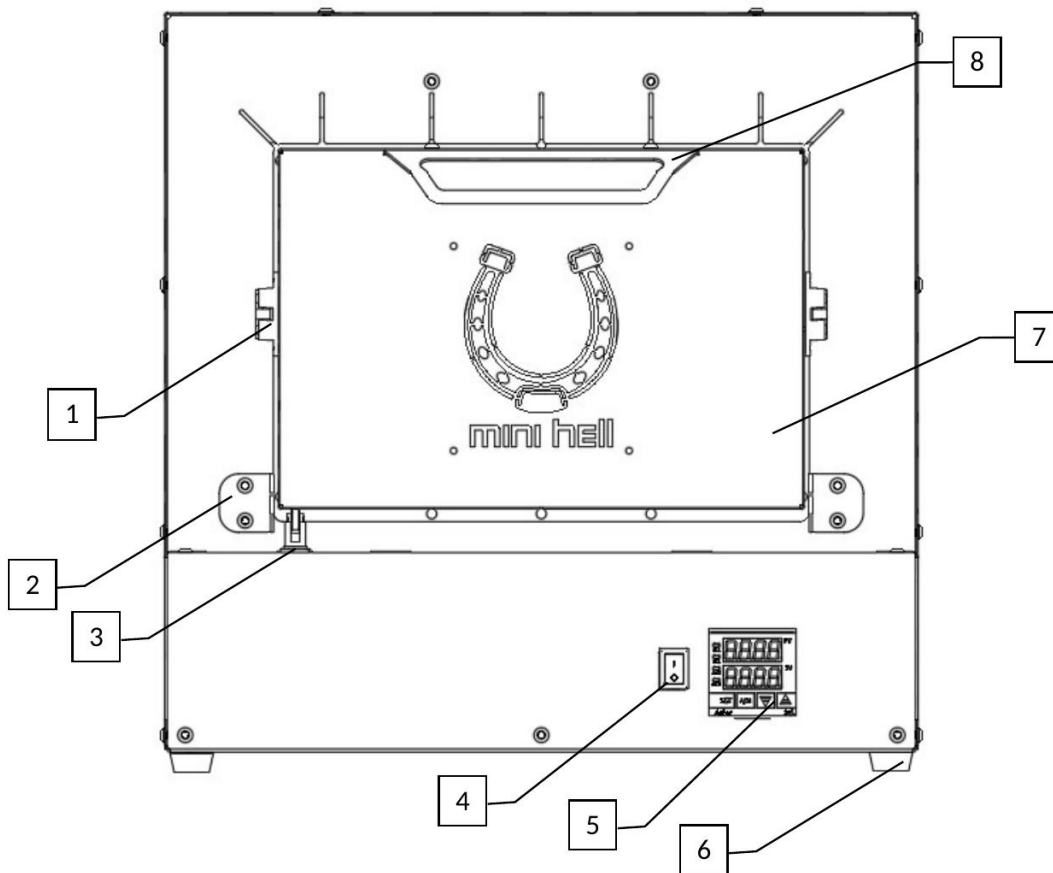
MINIMUM CLEARANCE: Maintain at least 150 mm of free space between the furnace housing and other objects or surfaces.



Minimum safe clearance from other objects and surfaces: 150 mm.

Do not obstruct the ventilation openings or the fan guard. Position the furnace so that air can flow freely around the housing.

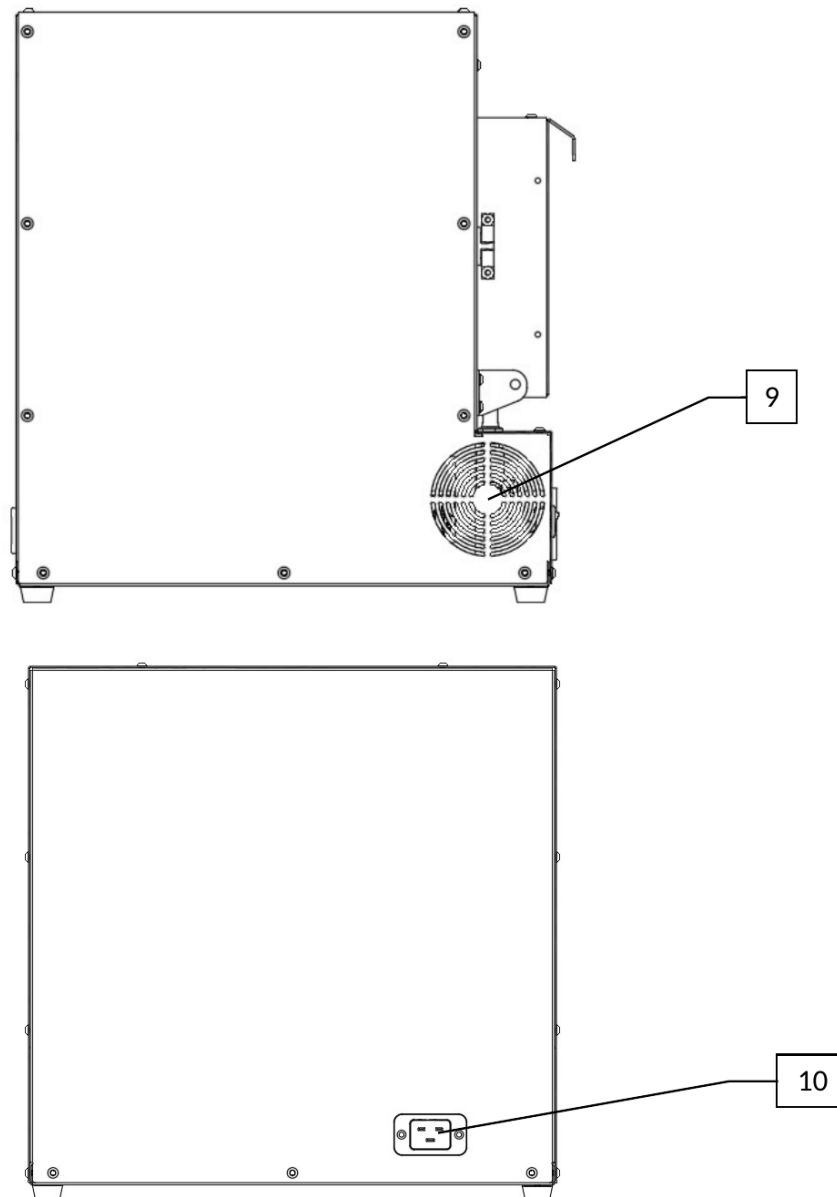
5. Furnace components



1. door latch
2. door hinge
3. limit switch
4. main switch
5. temperature controller
6. foot
7. door
8. door handle

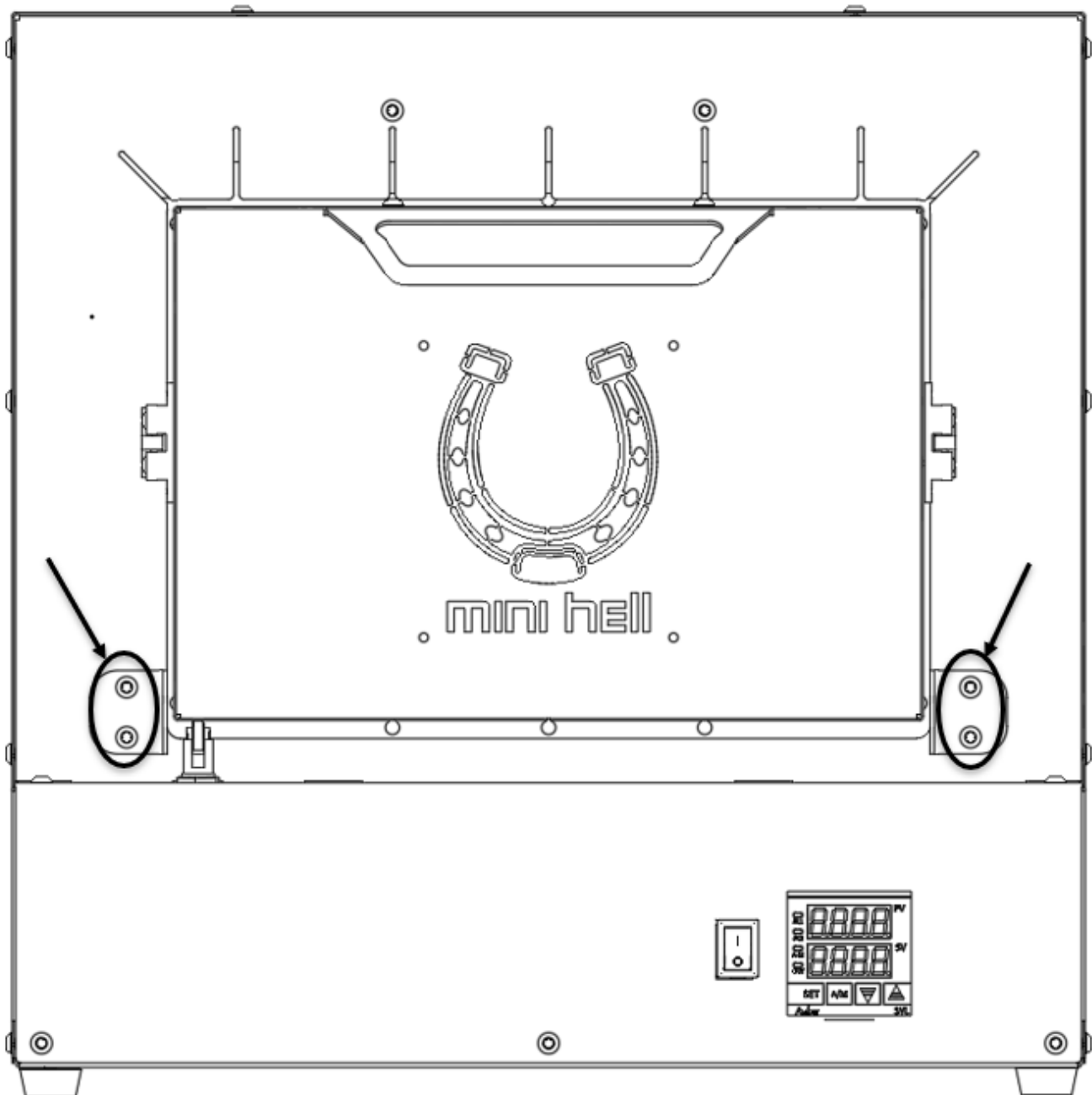
1.

Side and rear views



9. Fan guard | 10. Power inlet

6. Adjusting the furnace door



Adjust the door only if it does not close correctly or the ball catches do not operate properly.

1. Loosen the screws indicated in the illustration.
2. Position the door correctly.
3. Tighten the screws to lock the door in its new position.

CAUTION: Do not make any adjustments if the door closes correctly.

7. Initial furnace start-up

7.1 Check before connecting the power supply

- After installing the device, check the furnace for any signs of damage on the outside or inside the chamber.
- Make sure the main switch marked with number 4 is in the OFF position.
- Insert the C20 plug of the power cord into the inlet marked with number 10, then connect the device to the power supply.

EXTENSION CORD: If you use an extension cord, the conductor cross-section must be at least 2.5 mm². Fully unwind the cable before use. Never use an extension cord while it is wound on a reel.

7.2 Start-up

- Set the main switch to the ON position.
- Check that the device starts correctly. If any component does not operate properly, stop using the device and contact the distributor or manufacturer.
- After the door is closed, if the temperature set on the controller is higher than the temperature inside the chamber, the furnace will begin heating.

7.3. First heat-up

During the first start-up, smoke may be emitted as the organic binders holding the ceramic fibres in the insulation burn off. This is normal and may last approximately 2-3 hours.

VENTILATION: Carry out the first heat-up in a well-ventilated area. Avoid inhaling the smoke.

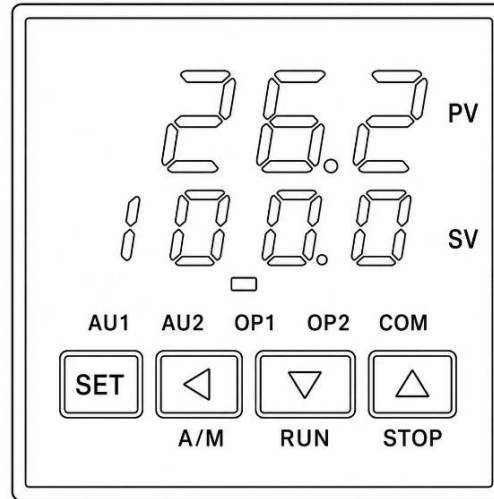
During the first heat-up, the insulation inside the chamber may turn brown and then become white again. After heating for approximately 2-3 hours, the furnace is ready for normal operation.

7.4 Correct shutdown

1. Do not cool the furnace with the door open.
2. Set the setpoint temperature (SV) to 0°C.
3. Wait approximately 15 minutes for the temperature inside the chamber to drop and for the fan to cool the furnace housing.

8. Controller operating instructions

The furnace is equipped with a Maxwell MAU90 controller with touch-sensitive keys. The controller parameters are factory-set. Do not change any settings other than those described in this manual - modifying them may disrupt correct furnace operation and damage the device.



Maxwell MAU90 controller panel

Display and button descriptions

PV	Upper display - current temperature inside the furnace chamber.
SV	Lower display - temperature set by the operator.
OP1	Indicates switching the control signal for the heating elements on and off.
SET	A short press starts editing the SV value. Press again to save the setting.
Left arrow	Moves the currently edited digit position.
Down arrow	Decreases the setpoint temperature.
Up arrow	Increases the setpoint temperature.

The set value is saved by pressing SET again or automatically after approximately 3 seconds of inactivity.

9. Controller auto-tuning

Perform auto-tuning if the furnace does not maintain the set temperature steadily - for example, if the PV value oscillates around SV or significant overshoot occurs.

1. Press and hold the SET button for approximately 3 seconds.
2. The AT symbol will appear on the upper display.
3. On the lower display, change the value from OFF to ON using the up/down arrows.
4. Briefly press the SET button.
5. The controller will return to the main screen and start auto-tuning. The procedure is indicated by a flashing AT message on the lower display.

DURING AUTO-TUNING: Set SV to the temperature at which the furnace most often operates (e.g. 900°C). Do not open the door, place items in the chamber, or change the SV setting.

Auto-tuning is complete when the flashing AT message disappears from the lower display.

10. Final notes and warnings

INSTRUCTIONS: Before operating the device, the operator must read this manual.

DAMAGE: If any malfunction or damage to the furnace is found, stop using it immediately and contact the distributor or manufacturer.

WARRANTY: The furnace is covered by a 12-month warranty. Modifying the construction of the device may void the warranty.

TEMPERATURE 1100°C: The maximum operating time of the furnace at 1100°C is 5 hours.

HOT HOUSING: The device housing becomes hot during operation. Wear suitable protective clothing and take care to avoid burns.

CLEARANCE: Maintain a minimum clearance of 150 mm from other objects and surfaces.

COOLING: Do not cool the furnace with the door open.