SWH1
First Installation Guide

Installation instructions for a qualified installer

> **DANGER: 230 V AC, 50 Hz. The pump and SWH1 must be connected to the AC mains only by a qualified electrician.**

Before starting work

☐ Disconnect the 230 V AC mains supply.

☐ Verify with a measuring instrument that the conductors are de-energized.

☐ Before a test run, make sure the circulation circuit is filled with water.

1. Connecting the device

1. Mount the SWH1 device.
2. Connect the cables according to the PCB markings and the table below.

Connection	Terminals	Purpose
Device power	L · N · G (PE)	230 V AC, 50 Hz mains; PE — protective earth.
Pump	G (PE) · N · L	“M” terminal block; PE — protective earth.
Return line	R IN	דוד — from the building to the collectors.
Supply line	R OUT	קולט — from the collectors to the building.
External protection	P.S.	Dry-contact input. Do not apply external voltage.

3. Check all connections. After the final inspection, switch on the power using the circuit breaker.

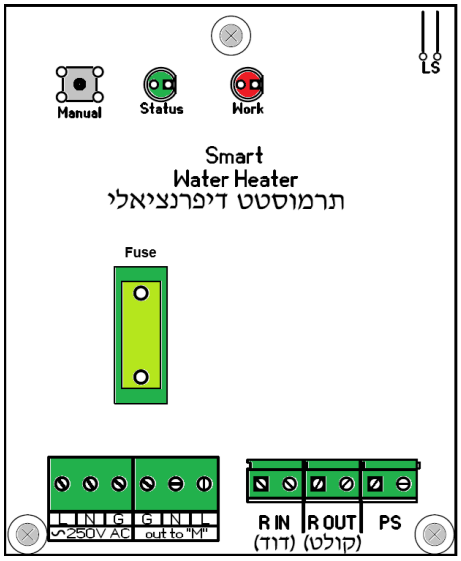


Fig. 1. SWH1 PCB and terminal locations

2. Checking pump operation

1. Press and hold the Manual button on the PCB for 3–5 seconds.
2. Wait for the test run: the pump will operate for approximately 1 minute.
3. Confirm that the pump operates normally.

3. Initial setup (pump calibration)

1. Install the app using the QR code and connect to SWH1 via Bluetooth. If Android asks, allow Nearby devices and location access.
2. Check the R IN and R OUT temperature sensor readings.
3. Make sure the circuit is filled with water and the pump is working and switched off.
4. Open “Motor parameters” → “New motor” and wait for calibration to finish (about 15 seconds).

Installer checklist

☐ Device secured; wires routed without strain; terminal screws tightened.

☐ Mains wires connected correctly to the AC terminals ~250 V (L, N, G/PE).

☐ Pump mains wires connected correctly to the “M” terminals (G/PE, N, L).

☐ R IN and R OUT connected to their respective temperature sensors.

☐ External P.S. input connected correctly (if used).

☐ Manual test and calibration completed successfully.

☐ Confirm in the app that no errors are present.

Download the app

After setup, SWH1 is ready for operation.

For detailed settings, protection functions and errors, see the SWH1 User Manual.

WARNING: Do not calibrate if the pump is faulty or the circuit contains no water.