

CUH - Commissioning the control system, user supplied Heat pump system, all thermostat types

WARNING!!

The commissioning of the heat pump is a separate process, refer to heat pump supplier.

Check whether the heat pump has weather compensation or whether instead it requires a call-for-heat .

Electrical control checklist, for systems with a weather compensating heat pump.
DO NOT TURN ON THE HEAT PUMP.
 The underfloor heating circulators are controlled by the heat pump, neither they nor the heat pump should run at any time during the following checks.

Zone heating controls
 The pipes below the flow valves on the Optiflo manifold should have been marked during installation of the plumbing with the zones to which they run.
 It is essential for the operation of the system that room thermostats, actuators and flow valves are correctly matched to each other. To check that the matching is correct:

Check zone details and positions of the Optiflo manifolds.
 Take note of any split zones where room thermostats may be required to activate more than one valve actuator.

1.		BEFORE APPLYING POWER TO THE HEATING SYSTEM. Dial thermostats: Refer to the A3 Schedule of Thermostats. For zones that are required to have a remote sensor, check that these have been connected and internal selector switches set.
		Turn on the heating system isolation switch.
2. Go to manifold A		Set all room thermostats to minimum
		All actuators should be off with the central button down.
3. Start at the first zone		Set the zone room thermostat high to produce a call-for-heat.
		Check that the correct electrical actuator opens on the manifold. The central button will lift proud of the white cap after a delay of approximately two minutes. Label the actuator cable to match the pipe zone description.
		neoStat and neoAir: Refer to the A3 Schedule of Thermostats. For zones that are required to have a floor temperature sensor, press and hold the < and > keys for five seconds. The display should show the floor temperature briefly, then revert to normal.
4. Repeat for other zones		Set the zone room thermostat to minimum.
5. Go to next manifold		Repeat stage 3 for all other zones on the manifold.
		Repeat steps 2 to 5 for each manifold in turn.
6. Finishing		Set all room thermostats to normal temperature for the room.

Electrical control checklist, for systems with a heat pump requiring a call-for-heat.
DO NOT TURN ON THE HEAT PUMP.
 The heat pump should not be allowed to run at any time during the following checks, unless in the presence of a commissioning engineer approved by the supplier of the heat pump .

Zone heating controls
 The pipes below the flow valves on the Optiflo manifold should have been marked during installation of the plumbing with the zones to which they run.
 It is essential for the operation of the system that room thermostats, actuators and flow valves are correctly matched to each other. To check that the matching is correct:

Check zone details and positions of the Optiflo manifolds.
 Take note of any split zones where room thermostats may be required to activate more than one valve actuator.

1.		BEFORE APPLYING POWER TO THE HEATING SYSTEM. Dial thermostats: Refer to the A3 Schedule of Thermostats. For zones that are required to have a remote sensor, check that these have been connected and internal selector switches set.
At every manifold		Important: Disconnect all manifold pumps – running a dry pump will result in damage to the pump and possibly to control equipment.
		Turn on the heating system isolation switch.
2. Go to manifold A		Set all room thermostats to 5°C:
		Press the V arrow repeatedly & press ✓ to accept. All actuators should be off with the central button down.
3. Start at the first zone		Set the zone room thermostat high to produce a call-for-heat, and press ✓ to accept.
		Check that the correct electrical actuator opens on the manifold. The central button will lift proud of the white cap after a delay of approximately two minutes. Label the actuator cable to match the pipe zone description.
		neoStat and neoAir: Refer to the A3 Schedule of Thermostats. For zones that are required to have a floor temperature sensor, press and hold the < and > keys for five seconds. The display should show the floor temperature briefly, then revert to normal.
4. Repeat for other zones		Set the zone room thermostat to 5°C using the V arrow, press ✓ to accept.
5. Go to next manifold		Repeat stage 3 for all other zones on the manifold.
		Repeat steps 2 to 5 for each manifold in turn.
6. Finishing		Important: Turn off the heating system isolation switch.
		Reconnect all manifold pumps.
		Turn on the heating system isolation switch.
		Set all room thermostats to normal, press ✓ to accept.

Commissioning the under floor heating circulator(s)

Pump model	Wilo Yonos PARA RS25/6 & Yonos PARA RS25/7.5	Wilo Yonos PARA HF 25/7, HF25/10 & MAXO 40/12	Grundfos Magna 1
Optimum setting	Turn red knob clockwise to Constant Pressure mode, position 6. This corresponds to 6m head. 	Turn red knob clockwise to Constant Pressure mode, until digital display shows 6.0 corresponding to 6m head. 	Press 4 times to cycle through the options until constant pressure mode 3 is lit: This corresponds to 6m head
	Proportional pressure Constant pressure	Proportional pressure Constant pressure	

Underfloor Heating Control System
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Nu-Heat
 UNDERFLOOR & RENEWABLES

Nu-Heat UK Ltd | Heathpark House | Devonshire Road
 Heathpark Industrial Estate | Honiton | Devon EX14 1SD

Online www.nu-heat.co.uk Phone 01404 540745