





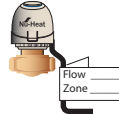



















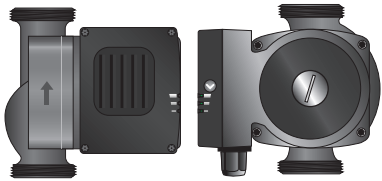








Electrical control checklist	
<p><b>Zone heating controls</b></p> <p>The pipes below the flow valves on the Optiflo manifold should have been marked during installation of the plumbing with the zones to which they run.</p> <p>It is essential for the operation of the system that room thermostats, actuators and flow valves are correctly matched to each other. To check that the matching is correct:</p> <p>Check zone details and positions of the Optiflo manifolds.</p> <p>Take note of any split zones where room thermostats may be required to activate more than one valve actuator.</p>	
	 Important: Turn off the heating system isolation switch.
1. 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 ▼ arrow repeatedly & press A to accept
3. Start at the first zone	 All actuators should be off with the central button down.
	 Set the zone room thermostat high to produce a call-for-heat, and press A to accept.
4. Repeat for other zones	 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.
	 Set the zone room thermostat to 5°C using the ▼ button, press A 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.
7. 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 A to accept.

System with a combination boiler	
	Turn ON any Supplementary Isolation Switches next to all the Optiflo manifolds, to enable signals to and from the boiler. If the boiler has an integral time clock it should be set to constant or 24 hours.
	Check that the boiler and boiler pump are controlled by calls-for-heat from the underfloor heating room thermostats. Check at least one heating zone on each Optiflo manifold by turning up the room thermostat.

System with a Nu-Heat EnergyPro cylinder or user-supplied cylinder	
	Turn ON any Supplementary Isolation Switches next to all the Optiflo manifolds, to enable signals to and from the boiler. If the boiler has an integral time clock it should be set to constant or 24 hours.
	Check that the boiler and boiler pump are controlled by calls-for-heat from the underfloor heating room thermostats. Check at least one heating zone on each Optiflo manifold by turning up the room thermostat.
	One room thermostat (type 'HW') has an internal hot water timeclock. Set the hot water timeclock to ON. Check that the boiler and boiler pump are now controlled by the cylinder zone valve, which is in turn controlled by the cylinder thermostat.

System with a Nu-Heat EnergyMaster cylinder	
	Turn ON any Supplementary Isolation Switches next to all the Optiflo manifolds, to enable signals to and from the boiler. If the boiler has an integral time clock it should be set to constant or 24 hours.
	Set the hot water timeclock to OFF.
	Turn the cylinder thermostat up until it clicks on.
	Check that the boiler and boiler pump are controlled by calls-for-heat from the underfloor heating room thermostats. Check at least one heating zone on each Optiflo manifold by turning up the room thermostat.
	Set all room thermostats to minimum so there can be no call-for-heat.
	One room thermostat (type 'HW') has an internal hot water timeclock. Set the hot water timeclock to ON. Check that the boiler and boiler pump are now controlled by the cylinder zone valve, which is in turn controlled by the cylinder thermostat. Set the hot water timeclock to OFF.
	Leave the cylinder thermostat set in the range 65°C to 70°C.

Commissioning the under floor heating circulator(s)			
Pump model	Grundfos UPS2 	Grundfos UPML 	Grundfos Magna 1 
Optimum setting	Press  to cycle through the options until III is lit continuously (fixed speed mode, speed III)	Press  to cycle through the options until III is lit continuously (fixed speed mode, speed III)	Press  4 times to cycle through the options until constant pressure mode 3 is lit :  This corresponds to 6m head

Underfloor Heating Control System  
 CBTs - Commissioning the control system,  
 Boiler system, Touch screen thermostats

  
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