

## CBD - Commissioning the control system, Boiler system, Dial thermostats

### Electrical control checklist















#### 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.

		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 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.
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.
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 temperature for the room.

### 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.

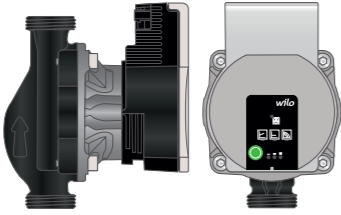
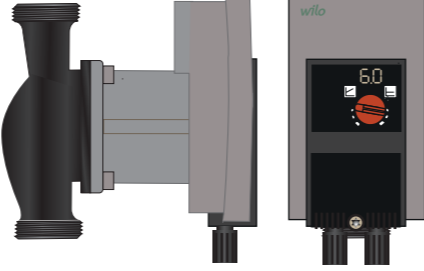






Check that the boiler and boiler pump are controlled by calls-for-heat from the underfloor heating room thermostats. Check at least one heating zone on each Optiflo manifold by turning up the room thermostat.



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.

### Commissioning the under floor heating circulator(s)

Pump model	Wilo Para RS25/7 	Wilo Yonos PARA HF 25/7, Yonos PARA HF 25/10, Yonos MAXO 40/12 
Optimum setting	Press the green pushbutton to highlight Constant Pressure mode  and speed  . This corresponds to 7m head. 	Turn red knob clockwise to Constant Pressure mode, until digital display shows 6.0 corresponding to 6m head. 

## Underfloor Heating Control System CBD - Commissioning the control system, Boiler system, Dial thermostats



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