



Caldotherm
Temperature Control

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Operation of Wrightbus Heat/Cool control system WRK/55

- 1) The system is supplied with one dash switch assembly, one external air thermostat, one saloon air thermostat, and one pipe thermostat. See drawing below SC1048 for locations.
- 2) The thermostats directly replace the original external, saloon and engine thermistors. They are fully adjustable, and use the existing harness wiring.
- 3) The original valve and water pump are retained, and no plumbing modifications are required.
- 4) The dash control assembly directly replaces the original Climate Control and plugs in to the existing harness.

The driver-selectable options are:

- i) Both HEAT and COOL off.
- ii) HEAT on.
- iii) COOL on.

Note: The driver cannot adjust the saloon temperature. This is set at the saloon thermostat.

- 5) When **HEAT** is selected, the system automatically provides heating **only**.
 - a) If the external thermostat is cold (e.g. $<12^{\circ}\text{C}$), and the pipe thermostat is cold (e.g. $<60^{\circ}\text{C}$), the fans and pump remain off, irrespective of the saloon temperature. This prevents blowing cold air into the saloon and running the pump when the engine is cold.
 - b) If the external thermostat is cold, and the pipe thermostat is hot, the pump is switched on. This ensures a constant hot water flow around the saloon heating circuit. The saloon fans switch on to normal speed if the saloon is cold (e.g. $<20^{\circ}\text{C}$) and off when the saloon is warm. This ensures that no cold air is blown into the saloon when the external air is cold, with temperature control achieved by operation of the fans.
 - c) If the external thermostat is warm, the pipe thermostat is ignored and the pump is switched off. The saloon fans switch on to normal speed if the saloon is cold (e.g. $<20^{\circ}\text{C}$) and off when the saloon is warm.

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6) When **COOL** is selected, the system provides forced ventilation **only**. The pump is switched off, and the saloon heater fans are switched to full speed, regardless of the external, saloon or pipe temperatures. Note that the temperature is dependent on the correct operation of the OE Danfoss valve.

