



TDS006:

Atmos Inter boiler: achieving boiler set temperature – additional instructions

There have been a small number of occurrences where Inter boilers seem not to be reaching the set central heating flow temperature but instead modulating down sharply or shutting down with **1** in the service display, even though the boiler flow temperature is still below the set temperature. This can be due to insufficient flow of central heating water through the boiler and heating system.

The installation manual for the Inter boilers gives details about the minimum required flow through the heating system. It also gives instruction on the correct pump speed setting for the minimum required flow through the boiler. Insufficient flow can cause the temperature difference between flow and return to become excessive. When this happens the controller responds by modulating down or shutting down.

In situations where the boiler flow temperature does not reach the set temperature the following steps should be taken:

1. Ensure that the pump speed is set to maximum (setting 3).
2. It may be that the value of parameter 3 (set CH power) is set too high. If this is the case it is advisable to reduce the value of this parameter. The set CH power should not be more than 30% above the maximum load for the heating system. This means that on a heating system with a maximum load of 12kW the InterCombi or the InterSystem boiler should be set so that the boiler can deliver no more than 15.6kW. In this case parameter 3 should be set no higher than 50. If the system has a maximum load of 18kW parameter 3 should be set at 75.
3. If after these measures the boiler still shuts down (rather than modulates down) before reaching set temperature, decrease the value of parameter **P** to 0. This will reduce the time period the boiler remains switched off with **1** in the service display.
4. Set parameter c (minimum CH power) to 50.
5. Install a by-pass valve with adjustable flow regulation in close proximity to the boiler or if one is already fitted it may be helpful to adjust it so that it opens at a lower differential pressure.

If despite these measures the set temperature is still not reached, contact Atmos for further advice.