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Issue No.: 06/07
Date: 20th November 2007
From: T King/K Edwards

Subject: SAT-1 TEMPERATURE CONTROLLER INTERMITTENTLY STOPPING COMPRESSOR OPERATION
Units: VARIOUS NEW R410A ISD & ISDL UNITS FITTED WITH SAT-1 CONTROLLER

We have received reports from the field that some units have been intermittently cutting out the compressor operation on the cooling cycle.

The symptoms are that the compressor will run for a few minutes and then stop for a few minutes and that the room temperature will not be satisfied.

We have identified that there is an extra link in the thermostat wiring on the SAT-1 PC board that should not be there and needs to be removed. The link is between terminals D12 and D13.

This link should be cut at terminal D12 as close as possible to the female connector and the female connector and remaining wire be removed from terminal D13.

The presence of the link causes an offset in the Indoor Coil Sensor reading at other than room temperatures. In situations with low air flow it is enough to stop the compressor on its frost protection cut out, when on cooling cycle, or an high Indoor coil temp protection on heating.

The problem may not be encountered on systems with good air flow. However we recommend that during maintenance/servicing, even if the problem has not been experienced, the link be removed.