

# Technical Bulletin



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| Number  | 032                 |
| Subject | Pump Down Procedure |
| Date    | 29 June 2009        |

If you wish to pump down a Hitachi Set-Free system to modify the pipework, fan coils etc: please follow this procedure.

- 1 Put the system into a test mode in cooling (DSW4 4 pin 1)

■ **DSW4: Setting for the test operation and service**

The setting for the test operation and service is required.  
This DIP switch is used for servicing.

|                             |  |
|-----------------------------|--|
| Setting before the shipment |  |
| Test the cooling process    |  |

- 2 Fit a gauge to the low pressure gas line
- 3 Close the liquid line service valve
- 4 Monitor the pressure on the gauge and when the pressure reaches ZERO close the low pressure service valve
- 5 Turn off the test run and engage the enforced stoppage (DSW4 pin 4)

Monitor the system pressure for ten minutes if the pressure rises re-open this low pressure gas line and repeat the process.

If the gauge reaches a point where the pressure stops falling, this indicates that the condenser cannot hold any more refrigerant. At this point close the low pressure service valve, turn off the unit, and remove any remaining refrigerant with a reclaim machine.

If the system is a three pipe system during test cooling both gas line's become low pressure line's.

If the system needs to be pumped down to replace a compressor, we recommend that if the compressor is a "burn-out" all the refrigerant will require replacing and the whole system charge should be reclaimed. If the compressor is a mechanical failure the service valves can be closed on all lines to isolate the outdoor unit from the system and the refrigerant reclaimed from the outdoor unit.