



### Faults

<b>LP</b>	Low pressure protection active
<b>HP</b>	High pressure protection active
<b>HI-t</b>	High temperature protection active
<b>LO-t</b>	Water freeze protection is active
<b>nO-FLO</b>	The water flow verification switch does not operate
<b>FLOOD</b>	Sump flood alarm active
<b>FROSt</b>	Indoor coil frost protection active
<b>HI-SL</b>	High suction line temperature protection active
<b>Lo-dSH</b>	Low discharge superheat protection active
<b>Hi-dSH</b>	High discharge superheat protection active
<b>OL</b>	Overload protection active ("IN #2" open circuit)
<b>F10</b>	Outdoor fan fault (no serial communications)
<b>F11</b>	Indoor fan fault (no serial communications)
<b>F12</b>	Low pressure transducer fault (shows as LP)
<b>F13</b>	High pressure transducer fault (shows as HP)
<b>F14</b>	Suction line temperature sensor fault (SL)
<b>F15</b>	Discharge line temperature sensor fault (DL)
<b>F16</b>	De-Ice temperature sensor fault (DEI)
<b>F17</b>	Outdoor coil temperature sensor fault (OC)
<b>F18</b>	Indoor coil temperature sensor fault (IC)
<b>F19</b>	Ambient temperature sensor fault (AMB)
<b>F20</b>	Superheat unknown
<b>F21</b>	Thermostat fault
<b>F22</b>	System 1 or BMS fault (no serial communications)
<b>F23</b>	System 2 fault (no serial communications)
<b>F24</b>	System 3 fault (no serial communications)
<b>F25</b>	System 4 fault (no serial communications)
<b>F26</b>	Invalid DIP switches setting
<b>F27</b>	Invalid fan selection
<b>F28</b>	Invalid economiser selection
<b>F29</b>	Controller overheating
<b>F30</b>	Supply voltage out of bounds
<b>F32</b>	0-10V input fault
<b>F33</b>	High discharge superheat protection active
<b>F34</b>	Problem with pressures or transducer readings
<b>F35</b>	Reverse cycle valve fault
<b>F36</b>	Invalid thermostat configuration

### Display Messages (Normal Operation)

<b>UC7 X.XX</b>	Name and software version (shown only after power-on) e.g. 4.95
<b>0 (flashing)</b>	Expansion valves are zeroing (shown only after power-on)
<b>dELAY</b>	Unit waits for a random delay time (up to 35s, shown only after power-on)
<b>• (flashing)</b>	Normal mode
<b>- (flashing)</b>	Unit is OFF by Remote On/Off signal
<b>dE-ICE</b>	De-icing the outdoor coil
<b>c</b>	Commissioning mode (lasts for 30 minutes)
<b>t</b>	Test mode (lasts about 1 minute)
<b>HOLD</b>	Compressor held-on or held-off by a timer
<b>dr</b>	DRED energy consumption restriction active
Monitoring of pressures and temperatures. Press the push button to cycle through the following options (round robin fashion):	
<b>• or c</b>	No temperature display (default)
<b>SLP</b>	Suction line pressure (kPa)
<b>Et</b>	Evaporating temperature (°C)
<b>SLt</b>	Suction line temperature (°C)
<b>SSH</b>	Suction side superheat (K)
<b>dLP</b>	Discharge line pressure (kPa)
<b>Ct</b>	Condensing temperature (°C)
<b>dLt</b>	Discharge line temperature (°C)
<b>dSH</b>	Discharge side superheat (K)

### Test Function

#### To activate test mode:

- Thermostat and compressor must be OFF.
  - Press and hold pushbutton for 2 to 4 seconds until the display shows 't', then release.
- Test mode starts immediately.

Outputs are activated one by one in the order listed; duration 3 seconds each and with 3 seconds pause between: **R/V, CMC, OD fan Lo-Med-Hi, ID fan Lo-Med-Hi, SSR1, SSR2, AUX**. When the test sequence is completed the unit returns to normal mode.

#### To activate commissioning mode:

- Thermostat and compressor must be OFF.
  - Press and hold pushbutton for 6 to 8 seconds until the display shows 'c', then release.
- Commissioning mode starts immediately.  
During commissioning mode timers are reduced to be able to quickly test the unit.  
Commissioning mode ends after 30 minutes and returns to normal mode.