

# CDU Guide - maintenance

## Error code processing

- Summary : list of error codes
- List of maintenance guides
- Error code datasheet

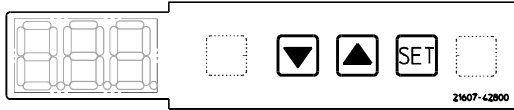
February 2023

100% CO2 Condensing Units

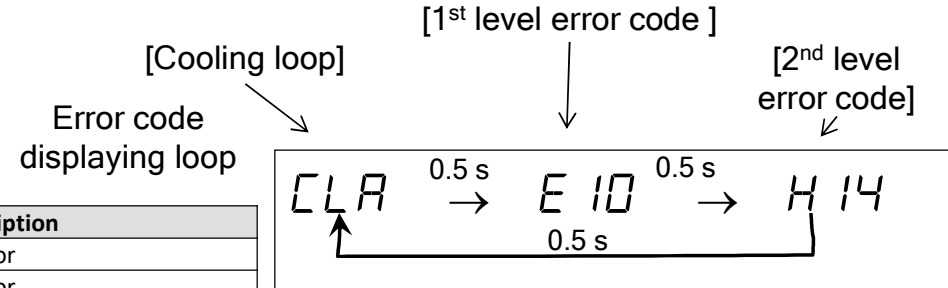
# ECO-FRIENDLY REVOLUTION

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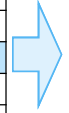
# Summary : list of error codes



When an alarm occurs, it is displayed as the loop described above

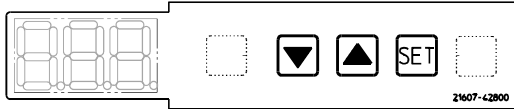
For alarm and service details, refer to the corresponding datasheet in this guide

Datasheet	Name	code
1	Microprocessor error	EEE
2	EEPROM error	Err
3	discharge temperature error (maximum)	E01
4	high pressure error (maximum)	E02
5.x	Family E10 : Inverter-Compressor-Power supply	E 10
6	Fan speed error (upper Fan)	E 1b
7	Fan speed error (lower Fan)	E 17
8	High pressure transducer error	E20
9	Low pressure transducer error	E21
10	Ambient temperature sensor error	E23
11	Discharge temperature sensor error	E24
12	Plate heat exch. inlet : temperature sensor error	E2b
13	Plate heat exch. outlet: temperature sensor error	E27
14	Electrical box : temperature sensor error (ABSENT)	E33
15	Suction temperature sensor error	E3B
16	Modbus Communication error	E40
17	Low pressure cut *	E41
18	PCB inverter communication error	E42
19	EEV calculation error	E50
20	EEV integral error	E51
21	Inverter calculation error	E70
22	Inverter integral error	E71



Datasheet	Code	description
5.1	E 10-H04	Inverter overcurrent error
	E 10-H0B	Inverter overcurrent error
	E 10-H0A	Inverter overcurrent error
	E 10-H20	Inverter overcurrent error
	E 10-H 10	Inverter overload error
	E 10-H4b	Converter overcurrent error
	E 10-H4B	Converter overcurrent error
5.2	E 10-H0C	Inverter heat sink : high temperature error
5.3	E 10-H 14	Inverter input voltage error (low level)
	E 10-H4C	Converter overcurrent error
	E 10-H 1B	Inverter input voltage error (high level)
	E 10-H2B	Inverter voltage drop detection
	E 10-H30	Inverter voltage drop detection
5.4	E 10-H 1C	Inverter controller communication error
5.5	E 10-H2C	PCB controller power supply error
5.6	E 10-H3B	Inverter phase shift error
5.7	E 10-H40	Inverter heat sink : temperature sensor error
	E 10-H6B	Inverter heat sink : temperature sensor error
5.8	E 10-H50	Compressor start malfunction
	E 10-H52	Compressor start malfunction
	E 10-H54	Compressor start malfunction
5.9	E 10-H44	Converter overcurrent error
5.10	E 10-H24	Inverter voltage drop detection
5.11	E 10-H5b	Inverter start error
5.12	E 10-HB0	Error

\* Alarm available since software release SCU 8B8 MRT5 V0.5

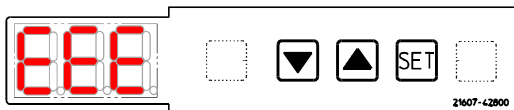


# List of maintenance guides

Nom guide
<b>b_ Maintenance EEV</b>
<b>c_ Maintenance Loop CHC</b>
<b>d_ Maintenance Plate Heat Exchanger HPX</b>
<b>e0_ Maintenance Gascooler cleaning</b>
<b>e1_ Maintenance Gascooler UPPER</b>
<b>e2_ Maintenance Gascooler LOWER</b>
<b>e3_ Maintenance Gascooler CDU-S</b>
<b>f_ Maintenance AC/DC converter</b>
<b>g_ Maintenance Compressor</b>
<b>h_ Maintenance sensors T &amp; transducer P</b>
<b>i_ Maintenance PCB controller</b>
<b>j_ Maintenance Fan</b>
<b>k_ Maintenance Inverter PCB</b>
<b>L_ Maintenance PCB filter</b>
<b>m_ Maintenance service valves</b>
<b>CDU Spare parts selection sheet</b>
<b>CDU R02A1D spare parts catalog</b>
<b>CDU R04A1C spare parts catalog</b>
<b>CDU R04A1D spare parts catalog</b>
<b>CDU R06A2C spare parts catalog</b>

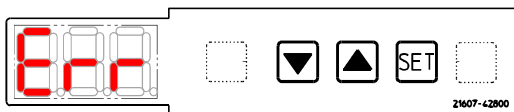


Here against the list of service guides mentioned in this guide and to consult if applicable



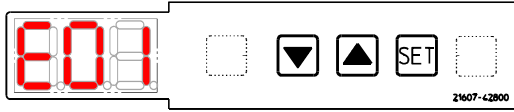
# 1/ EEE Microprocessor error

<b>EEE - Microprocessor error</b>  <b>CDU :</b> ALL	<b>CDU behavior:</b> CDU do not start	<b>Possible Causes &amp; Checks:</b> <b>1.</b> Check system controller PCB connections <b>2.</b> Verify PCB System Controller Operation	<b>Maintenance</b> <b>1.</b> Reconnect cables <b>2. PCB Controller replacement</b> if not working : -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a>
<b>Error condition :</b> Microprocessor error  <b>Error cancellation :</b> PCB controller replacement	<b>Display :</b> YES  <b>Modbus Transmission :</b> NO (cannot communicate) <b>Alarm output 230V</b> <b>activated :</b> NO		



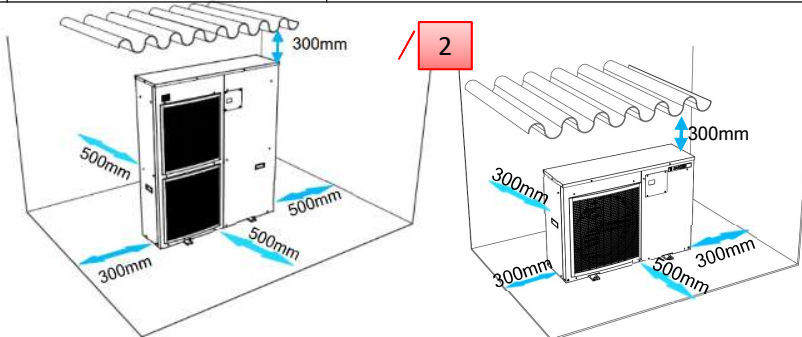
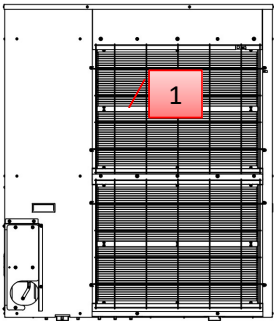
# 2/ Err Erreur EEPROM

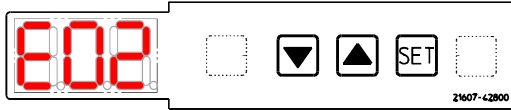
<b>Err - EEPROM error</b>  <b>CDU :</b> ALL	<b>CDU behavior:</b> CDU do not start	<b>Possible Causes &amp; Checks:</b> <b>1.</b> Wrong writing of parameters <b>2.</b> Verify PCB System Controller Operation	<b>Maintenance</b> <b>1.</b> Reload the software on the PCB controller <b>2. PCB Controller replacement</b> if not working : -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a>
<b>Condition d'erreur :</b> EEPROM writin error  <b>Error cancellation :</b> Setting values rewriting (Software reloading)	<b>Display :</b> YES  <b>Modbus Transmission :</b> NO (cannot communicate) <b>Alarm output 230V</b> <b>activated :</b> NO		



# 3/ E01 / High discharge temperature error

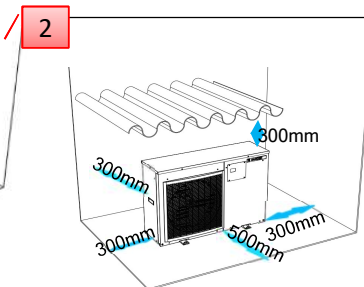
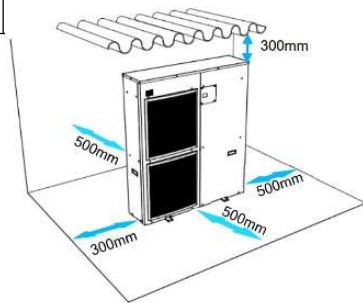
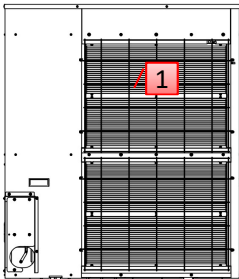
<p><b>E01 – High discharge temperature error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check the cleanliness of the gascooler</li> <li>2. Check for recirculation of air on gascooler</li> <li>3. Lack of R744 load: check operating parameters after 10/15min of operation: HP/BP, discharge temperature, superheat between 5K and 10K</li> <li>4. Lack of R744 load due to leakage: Check circuit tightness</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. Clean the gascooler <a href="#">See service guide : Maintenance Gascooler cleaning</a></li> <li>2. Make the necessary corrections on the installation</li> <li>3. Adjust Refrigerant Charge R744</li> </ol>
<p><b>Error condition:</b> Discharge temperature <math>\geq</math> [P01; 119°C] continuously during [P02; 60 sec.]</p> <p><b>Error cancellation:</b> Automatic : Discharge temperature <math>\leq</math> [P03; 100°C], and after restart timer delay [P30; 30]x10sec.</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES Alarm 230V output configurable [P83; YES default setting], setting available since the software release SCU 8B8 MTR5 V0.51</p>	<ol style="list-style-type: none"> <li>5. Improper return of oil to compressor, check distances and height difference of piping, volume and diameter of evaporator tubes, presence of oil trap, etc.</li> <li>6. Check compressor operation (noise, absorbed current, compression ratio)</li> <li>7. Check operation of inner Electronic Expansion Valve (initialization noise)</li> </ol>	<ol style="list-style-type: none"> <li>4. Repair the leak on the circuit and add oil to the affected compressor: Oil PZ68S 145303 <a href="#">See CDU Oil Filling Procedure Guide</a></li> <li>5. Make the necessary corrections on the installation</li> <li>6. If E01 is coming back constantly: <b>Compressor replacement</b>, check the part number in the spare parts list based on the CDU model <a href="#">See service guide : Maintenance compressor</a></li> <li>7. <b>EEV and coil replacement</b> if not in operation: Body EEV:92605-54060 (or check parts list) Coil EEV:92605-62130 <a href="#">See service guide : Maintenance EEV</a></li> </ol>

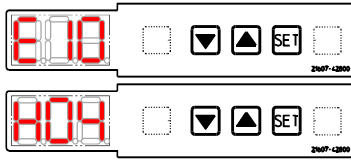




# 4/ E02 High pressure error

<p><b>E02 – High Pressure error error</b></p> <p><b>CDU :</b> ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>0.</b> CDU units do not have HP pressure switch. If during the start-up phase of the Group or during a replacement of the controller PCB, the modification of the parameter [P73] automatically causes the error E02.</p> <p><b>1.</b> Check the cleanliness of the gascooler</p> <p><b>2.</b> Check for recirculation of air on gascooler</p> <p><b>3.</b> Overload R744: check operating parameters after 10/15min of operation: HP/BP, discharge temperature, overheating between 5K and 10K</p> <p><b>4.</b> Too much R744 load, special attention to multi evaporator installations, -ensure proper opening of the Expansions valves at the stations, -setting their superheat at the stations, -relaying the cooling demand, -opening an expansion valve when the compressor stops.</p> <p><b>5.</b> Check operation of inner Electronic Expansion Valve (initialization noise)</p> <p><b>6.</b> If the alarm is for Loop C (CHC E02) of a CDU-L or CDU-M: Possibility of R744 leaking from Loop A or B to Loop C</p>	<p><b>Maintenance</b></p> <p><b>0.</b> Ensure that parameter [P73=0], no HP pressure switch.</p> <p><b>1.</b> Clean the gascooler <a href="#">See service guide : Maintenance Gascooler cleaning</a></p> <p><b>2.</b> Make the necessary corrections on the installation</p> <p><b>3.</b> Refill the R744, adjust gently the load</p> <p><b>4.</b> Make the necessary corrections on the installation</p> <p><b>5. EEV and coil replacement</b> if not in operation: Body EEV:92605-54060 (or check parts list) Coil EEV:92605-62130 <a href="#">See service guide : Maintenance EEV</a></p> <p><b>6. Plate Heat Exchanger Replacement</b> <a href="#">See service guide : Maintenance Plate Heat Exchanger HPX</a></p>
<p><b>Error condition:</b> High pressure <math>\geq 12</math>MPa</p> <p><b>Error cancellation:</b> Automatic: high pressure <math>\leq 10</math>MPa and after restart timer delay [P30; 30]x10sec.</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES Alarm 230V output configurable [P83; YES default setting], setting available since the software release SCU 8B8 MTR5 V0.51</p>		

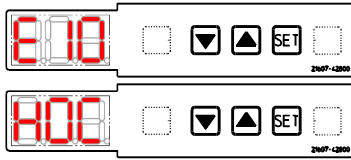




## 5.1/ Error Family E 10

### Inverter PCB overcurrent error : E 10-H04 / E 10-H08 other codes: H0A / H 10 / H20 / H4b / H48

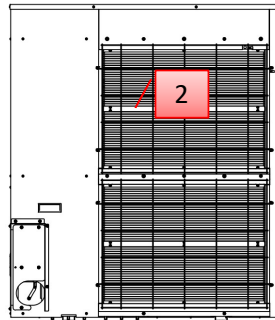
<p><b>E10-H04 / E10-H08 – Inverter PCB overcurrent error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>0.</b> Error may be accompanied by error E10-H50</p> <p><b>1.</b> Check the discharge pressure (See analysis E02)</p> <p><b>2.</b> Check operation of the inverter PCB: swap the inverter PCB of the impacted loop with another one from another loop in the unit (CDU-L or CDU-M). Switching power off.</p> <p><b>3.</b> If the previous point does not work, check the operation of the compressor (if necessary perform power switch off to reset the unit):</p> <ul style="list-style-type: none"> <li>-abnormal noise</li> <li>-abnormal pressure / abnormal speed =&gt; check of reading parameters.</li> </ul>	<p><b>Maintenance</b></p> <p><b>1.</b> Follow E02 Analysis</p> <p><b>2.</b> If the compressor restarts, after swapping the inverter PCBs, <b>replace the inverter PCB</b>. Check the part number in the spare parts list according to the CDU model. <a href="#">See service guide : Maintenance Inverter PCB</a></p> <p><b>3a. Compressor replacement</b>, check part number in spare parts list according to CDU model. <a href="#">See service guide : Maintenance Compressor</a></p> <p><b>3b.</b> As part of a CDU-S, if the inverter PCB could not be tested, propose the replacement of the inverter PCB and compressor assembly</p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		



## 5.2/ Error Family E 10

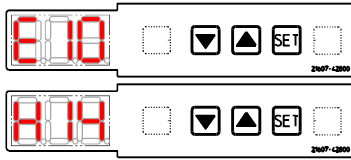
### Inverter heat sink : high temperature error : E 10-H0C

<p><b>E10-H0C – Inverter heat sink : high temperature error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check the cleanliness of the inverter PCB heat sink that is in the ventilation airflow behind the gascooler</li> <li>2. Check the air circulation on the inverter PCB heat sink (gascooler clogged...) =&gt; See analysis E01 / E02</li> <li>3. Check fan motor speed =&gt; See analysis E16 and E17</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. PCB inverter heat sink cleaning</li> <li>2. Gascooler Cleaning <a href="#">See service guide : Maintenance Gascooler cleaning</a></li> <li>3. Refer to E16 / E17 analysis</li> </ol>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		



Picture of PCB  
Inverter heat  
sink



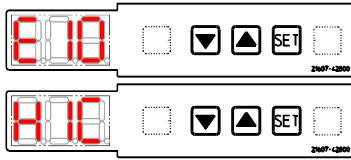


## 5.3/ Error Family *E 10*

### Inverter PCB Input voltage error : *E 10-H 14* / *E 10-H4C*

### Other codes : *H 18* / *H28* / *H30*

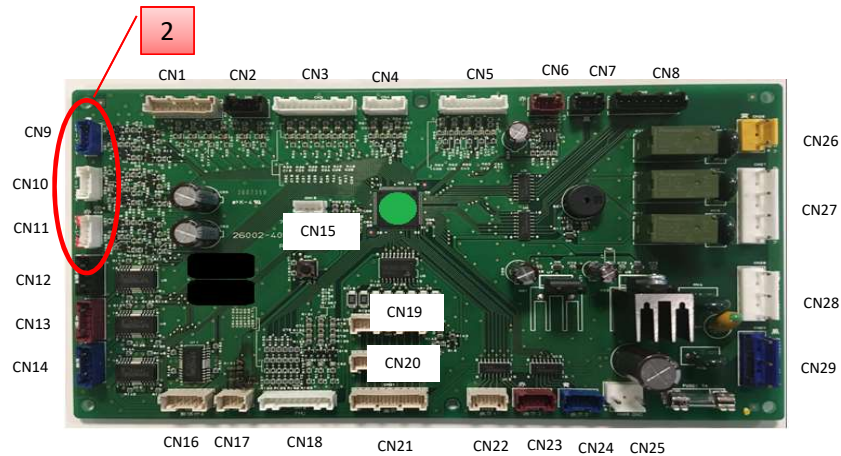
<p><b>E10-H14 / E10-H4C – Inverter PCB Input voltage error</b></p> <p>CDU : CDU-L / CDU-M 400V triple phase, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check the Condensing unit supply voltage if there is no phase missing.</li> <li>2. Check PCB filter inlet and outlet voltage. Check PCB filter fuses (when power off).</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. 230V between phase and neutral and 400V between phases</li> <li>2. If not operating, replace fuses if board design permits: -Fuse <b>NFU-4SCR3 Board: 5x20mm T10A 500V</b> -Or <b>replacement of PCB filter board NFU-4SCR1</b> or NFU-4SCR3 (3 phase 400V model) -Check part number in spare parts list according to CDU model (single phase 230V model) <a href="#">See service guide : Maintenance PCB Filter</a></li> </ol>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>	<p>The fault can come from an accidental voltage variation on the network (context of work on the electrical network, storm..), in this case only the filter board is impacted.</p> <ol style="list-style-type: none"> <li>3. If the fault is a result of a service or cleaning action on the group under operation, it is likely that the PCB Inverter of the same loop will be impacted. In this case, visually check the status of the PCB Inverter (presence of a drip or damaged component). Possible comparison with other PCB inverter of the group</li> </ol>	<p><b>3.1</b> if there is a trace of drip or damaged component: <b>replace the PCB inverter :</b> -Check part number in spare parts list according to CDU model <a href="#">See service guide : Maintenance PCB Inverter</a></p> <p><b>3.2</b> If there is no visual defect, power the unit back on. If necessary, observe the appearance of another defect in the E10 family or an E42 defect. Follow the corresponding error code sheet.</p>

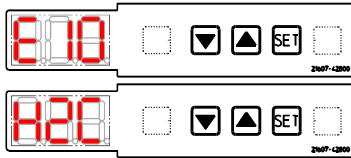


## 5.4/ Error Family *E 10*

### Inverter PCB communication error : *E 10-H 10*

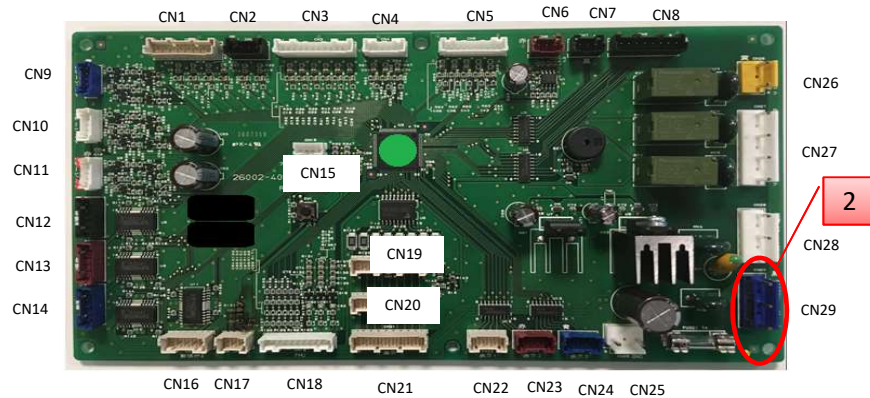
<p><b>E10-H1C – Inverter PCB communication error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check connection and conductivity communication cable</li> <li>2. Check PCB System Controller communication connector (CN9 / CN10 / CN11)</li> <li>3. Check Inverter PCB communication connector</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. Reconnect cables</li> <li>2. <b>PCB Controller replacement</b> if not working : -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></li> <li>3. <b>PCB Inverter replacement</b> if not working: -Check part number in spare parts list according to CDU model <a href="#">See service guide : Maintenance PCB Inverter</a></li> </ol>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		

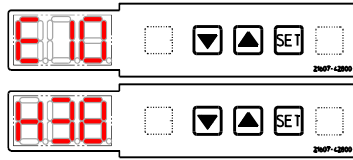




## 5.5/ Error Family *E 10* Controller PCB power supply error : *E 10-H2C*

<p><b>E10-H2C – Controller PCB power supply error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check Controller PCB connections</li> <li>2. Check Controller PCB Input and Output Voltage</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. Reconnect cables</li> <li>2. <b>PCB Controller replacement</b> if not working : -Compatible references : 20725-14350 / 4590170H10 / 4590336H11</li> </ol> <p><a href="#">See service guide : Maintenance PCB controller</a></p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		

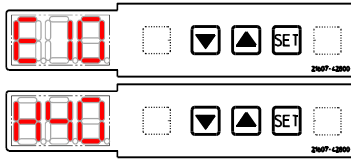




## 5.6/ Error Family *E 10*

### Inverter PCB phase shift error : *E 10-H38*

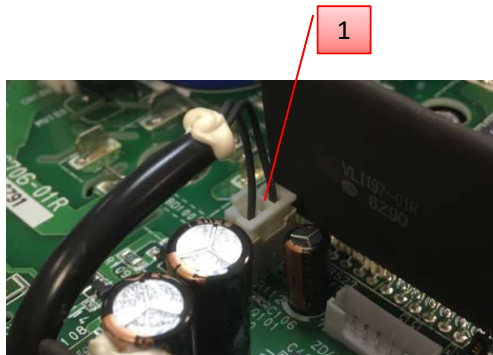
<p><b>E10-H38 – Inverter PCB phase shift error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>1.</b> Too much R744 load, special attention to multi evaporators installations. Same analysis as E02 error (high pressure). -ensure proper opening of the expansion valves at the stations, -setting their superheat at the stations, -relaying cooling demand, -opening an expansion valve when the compressor stops.</p> <p><b>2.</b> Check compressor operation (good start, noise, absorbed current, compression ratio)</p>	<p><b>Maintenance</b></p> <p><b>1.</b> Make the necessary corrections on the installation</p> <p><b>2. Compressor replacement</b>, check part number in spare parts list according to CDU model. <a href="#">See service guide : Maintenance Compressor</a></p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		



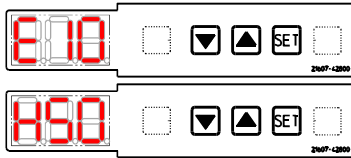
## 5.7/ Error Family *E 10*

### Inverter heat sink : Temperature sensor error : *E 10-H40* other code : *E 10-H68*

<b>E10-H40 – Inverter heat sink : Temperature sensor error</b>  CDU : ALL, every loop	<b>CDU behavior:</b> Compressor impacted stops or does not start	<b>Possible Causes &amp; Checks:</b> 1. Heat sink probe error, check connection and continuity  2. Inverter board short circuit: Check water intrusion on inverter board from rear (heat sink)	<b>Maintenance</b> 1. <b>PCB Inverter replacement</b> if not working: -Check part number in spare parts list according to CDU model <a href="#">See service guide : Maintenance PCB Inverter</a> 2. <b>PCB Inverter replacement</b> if not working: -Check part number in spare parts list according to CDU model <a href="#">See service guide : Maintenance PCB Inverter</a>
<b>Error condition:</b> Inverter error  <b>Error cancellation:</b> Power up after repair	<b>Display :</b> YES  <b>Modbus Transmission :</b> YES  <b>Alarm output 230V activated :</b> YES		



**PCB inverter  
heat sink  
thermistor  
picture**

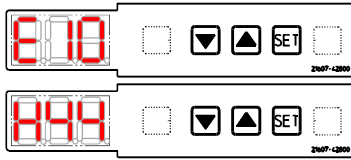


## 5.8/ Error Family *E 10*

### Compressor start malfunction : *E 10-H50*

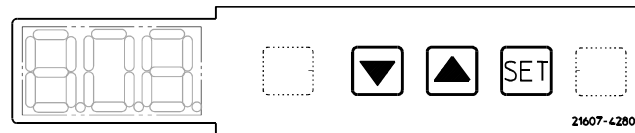
### Other codes : *H52 / H54*

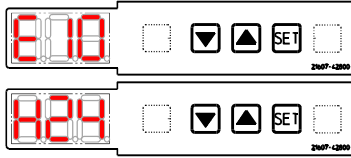
<p><b>E10-H50 – Compressor start malfunction</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>0.</b> Error may be accompanied by error E10-H04 or E10-H08</p> <p><b>1.</b> If compressor does not start, check operation of the inverter PCB: swap the inverter PCB of the impacted loop with another one from another loop in the unit (CDU-L or CDU-M). Switching power off.</p> <p><b>2.</b> If the previous point does not work, check the operation of the compressor (if necessary perform voltage breaks to reset the group):</p> <ul style="list-style-type: none"> <li>-bad start (0-17Hz)</li> <li>-abnormal noise</li> <li>-abnormal pressure / abnormal speed =&gt; check of reading parameters.</li> </ul>	<p><b>Maintenance</b></p> <p><b>1.</b> If the compressor restarts, after swapping the inverter PCBs, <b>replace the inverter PCB</b>. Check the part number in the spare parts list according to the CDU model. <a href="#">See service guide : Maintenance Inverter PCB</a></p> <p><b>2. Compressor replacement</b>, check part number in spare parts list according to CDU model. <a href="#">See service guide : Maintenance Compressor</a></p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		



## 5.9/ Error Family *E 10* Compressor start malfunction: *E 10-H44*

<p><b>E10-H44 – Compressor start malfunction</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>1. Rare error.</b> Check the settings related to positive or negative operation mode. Operation with an inappropriate LP setting in positive mode can generate this error. Example: request 1.3MPa in LP for positive mode (n00 = 00)</p>	<p><b>Maintenance</b></p> <p><b>1. Restore the correct settings</b> <a href="#">See CDU software guide and display</a></p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		

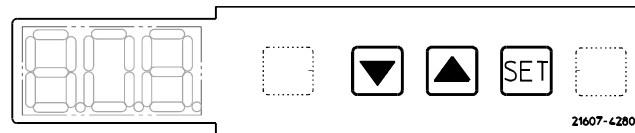




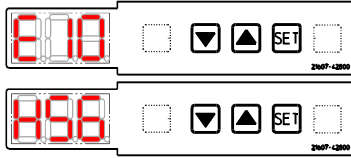
## 5.10/ Error Family *E 10*

### Inverter DC voltage drop detection: *E 10-H24*

<p><b>E10-H24 – Inverter DC voltage drop detection</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>1.</b> This error may occur during compressor shutdown or during switch off main power supply. It is rarely displayed but the error is saved in the history</p>	<p><b>Maintenance</b></p> <p><b>1.</b> no maintenance, clear error history <a href="#">See CDU software guide and display</a></p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		



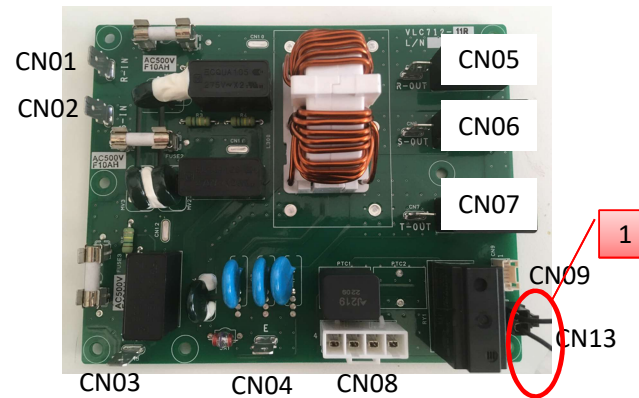


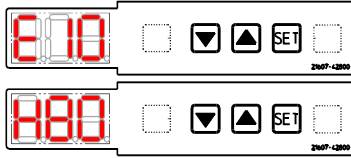


## 5.11/ Error Family *E 10* Inverter start error: *E 10-H56*

<b>E10-H56 – Inverter start error</b>  <b>CDU :</b> ALL, every loop	<b>CDU behavior:</b> Compressor impacted stops or does not start	<b>Possible Causes &amp; Checks:</b> <b>1.</b> This error may occur when the shunt is missing on the NFU 4SCR1 or 4SCR3 Filter PCB (CDU-L & M Triple Phase 400V)	<b>Maintenance</b> <b>1.</b> restore missing shunt: G21301-50650 <a href="#">See service guide : Maintenance PCB Filter</a>
<b>Error condition:</b> Inverter error  <b>Error cancellation:</b> Back to normal operation or power up after repair	<b>Display :</b> YES  <b>Modbus Transmission :</b> YES  <b>Alarm output 230V activated :</b> YES		

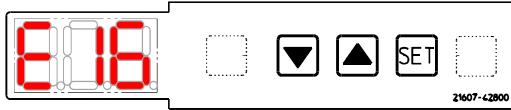
NFU-4SCR1 ou NFU-4SCR3





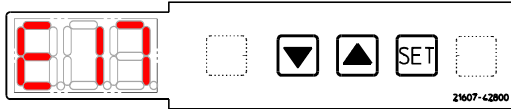
## 5.12/ Error Family *E 10* Error : *E 10-H80*

<p><b>E10-H80 – Error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p>1. This error comes PCB inverter failure</p>	<p><b>Maintenance</b></p> <p>1. <b>PCB Inverter replacement</b> if this error code observed: -Check part number in spare parts list according to CDU model <a href="#">See service guide : Maintenance PCB Inverter</a></p>
<p><b>Error condition:</b> Inverter error</p> <p><b>Error cancellation:</b> Power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		



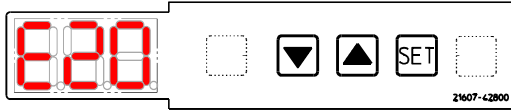
# 6/ E 16 Fan speed error (upper fan)

<p><b>E16 – Fan speed error (upper fan)</b></p> <p>CDU : CDU-L &amp; CDU-M</p>	<p><b>CDU behavior:</b> the whole condensing unit stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check, with power off, Fan free rotation (Lock or hard point)</li> <li>2. Check fuse status on PCB Fan motor</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. Remove the foreign body blocking the rotation, if hard spot is present, <b>replace the Fan Motor</b>, part number SIC-65FV-F515-2 (93501-54220)</li> <li>2. <b>Replace the failed fuse:</b> reference 5x20mm 3A 250V. There is a fuse available and not used on the third output of the PCB fan motor.</li> </ol>
<p><b>Error condition:</b> Rotation <math>\leq</math> [P64;10]x10RPM ; Repeat [P65;2] times before displaying</p> <p><b>Error cancellation:</b> Back to normal operation : - rotation <math>&gt;</math> [P64;10]x10RPM Or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>	<ol style="list-style-type: none"> <li>3. Check connection of fan cables and connectors on PCB Fan motor</li> <li>4. Power On and Manually Help Start Fan</li> <li>5. Check Supply and Output Voltages on PCB Fan motor</li> </ol> <p><b>Note:</b> Alarm display E16 or E17 is associated with loop A, even if E16 and E17 are independent of loop A, B or C</p> <p><b>Note:</b> If one of the fans does not start on cooling demand, the compressors do not start or very briefly.</p>	<ol style="list-style-type: none"> <li>4. Even if the fan restarts, consider <b>replacing the fan motor</b>, part number SIC-65FV-F515-2 (93501-54220)</li> <li>5. <b>PCB fan replacement</b> if not working , FMU-32801</li> </ol> <p><b>For all these steps, see service guide : Maintenance Fan</b></p> <ol style="list-style-type: none"> <li>6. <b>PCB Controller replacement</b> if not working in the previous step: -Compatible references : 20725-14350 / 4590170H10 / 4590336H11</li> </ol> <p><b>See service guide : Maintenance PCB controller</b></p>



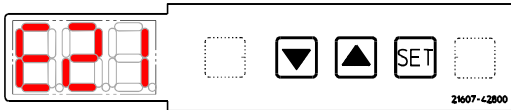
# E17 Fan speed error (lower fan)

<p><b>E17 – Fan speed error (lower fan)</b></p> <p>CDU : ALL</p>	<p><b>CDU behavior:</b> the whole condensing unit stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check, with power off, Fan free rotation (Lock or hard point)</li> <li>2. Check fuse status on PCB Fan motor</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. Remove the foreign body blocking the rotation, if hard spot is present, <b>replace the Fan Motor</b>, part number SIC-65FV-F515-2 (93501-54220)</li> <li>2. <b>Replace the failed fuse:</b> reference 5x20mm 3A 250V. There is a fuse available and not used on the third output of the PCB fan motor.</li> </ol>
<p><b>Error condition:</b> Rotation <math>\leq</math> [P66;10]x10RPM ; Repeat [P67;2] times before displaying</p> <p><b>Error cancellation:</b> Back to normal operation : - rotation <math>&gt;</math> [P64;10]x10RPM Or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>	<ol style="list-style-type: none"> <li>3. Check connection of fan cables and connectors on PCB Fan motor</li> <li>4. Power On and Manually Help Start Fan</li> <li>5. Check Supply and Output Voltages on PCB Fan motor</li> </ol> <p><b>Note:</b> Alarm display E16 or E17 is associated with loop A, even if E16 and E17 are independent of loop A, B or C</p> <p><b>Note:</b> If one of the fans does not start on cooling demand, the compressors do not start or very briefly.</p>	<ol style="list-style-type: none"> <li>4. Even if the fan restarts, consider <b>replacing the fan motor</b>, part number SIC-65FV-F515-2 (93501-54220)</li> <li>5. <b>PCB fan replacement</b> if not working , FMU-32801</li> </ol> <p><b>For all these steps, see service guide : Maintenance Fan</b></p> <ol style="list-style-type: none"> <li>6. <b>PCB Controller replacement</b> if not working in the previous step: -Compatible references : 20725-14350 / 4590170H10 / 4590336H11</li> </ol> <p><b>See service guide : Maintenance PCB controller</b></p>



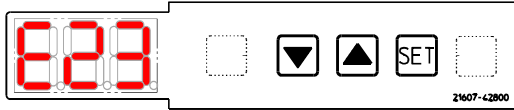
## 8/ E20 High Pressure Transducer error

<p><b>E20 – High Pressure Transducer error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p>1. Read the pressure value in the reading parameters: <i>Example: if the error corresponds to loop B or C and this loop is not present in the condensing unit, this corresponds to a unit type setting error, here a controller PCB configured in CDU-L or CDU-M instead of a CDU-S</i></p> <p>2. Reverse the HP and BP transducer wires, or swap with another transducer from another loop of the CDU</p>	<p><b>Maintenance</b></p> <p>1. Restore the correct settings type of unit CDU-L, CDU-M, CDU-S <a href="#">See CDU software guide and display</a></p>
<p><b>Error condition:</b> disconnection or short circuit for 3 continuous seconds. <i>0MPa=0,17V</i> <i>15MPa=4,90V</i></p> <p><b>Error cancellation:</b> Back to normal operation</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		<p>2a. If the error is maintained on the same transducer, <b>replace the pressure sensor</b>, part number 91406-C2010</p> <p>2b. If the error moves to another transducer following wires switching operation , <b>PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></p>



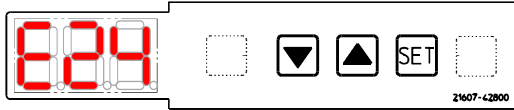
## 9/ E21 Low Pressure Transducer error

<p><b>E21 – Low Pressure Transducer error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p>1. Reverse the HP and BP transducer wires, or swap with another transducer from another loop of the CDU</p>	<p><b>Maintenance</b></p> <p>1a. If the error is maintained on the same transducer, <b>replace the pressure sensor</b>, part number 91406-C2010</p>
<p><b>Error condition:</b> disconnection or short circuit for 3 continuous seconds. <i>0MPa=0,17V</i> <i>15MPa=4,90V</i></p> <p><b>Error cancellation:</b> Back to normal operation</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>		<p>1b. If the error moves to another transducer following wires switching operation , <b>PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></p>



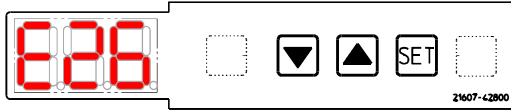
# 10/ E23 Ambient temperature sensor error

<p><b>E23 – Ambient temperature sensor error</b></p> <p>CDU : ALL</p>	<p><b>CDU behavior:</b> Compressors stop then restart in the degraded mode: -CLA &amp; CLB EEV keep the standby value [A/B10: 400pls] -no high pressure control -Fan at maximum speed 800RPM -Loop C control in low pressure mode</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check operation of temperature sensor</li> <li>2. Check sensor connection</li> <li>3. Verify operation of PCB System Controller</li> </ol>	<p><b>Maintenance</b></p> <p><b>1 &amp; 2. Test and replace the probe :</b> Reference : THERMISTOR EOUR ASSY (91101-52060) <a href="#">See service guide : Maintenance sensor T &amp; transducer P</a></p> <p><b>3. If error continues, PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></p>
<p><b>Error condition:</b> disconnection or short circuit for 3 continuous seconds.</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display : YES</b></p> <p><b>Modbus Transmission : YES</b></p> <p><b>Alarm output 230V activated : YES</b></p>		



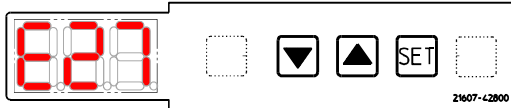
# 11/ E24 Discharge temperature sensor error

<p><b>E24 – Discharge temperature sensor error</b></p> <p>CDU : ALL</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check operation of temperature sensor</li> <li>2. Check sensor connection</li> <li>3. Verify operation of PCB System Controller</li> </ol>	<p><b>Maintenance</b></p> <p><b>1 &amp; 2.</b> Test and <b>replace the probe</b> : Reference : THERMISTOR EOUR (91101-52070) <a href="#">See service guide : Maintenance sensor T &amp; transducer P</a></p> <p><b>3.</b> If error continues, <b>PCB Controller replacement</b> : -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></p>
<p><b>Error condition:</b> disconnection or short circuit for 3 continuous seconds.</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display</b> : YES</p> <p><b>Modbus Transmission</b> : YES</p> <p><b>Alarm output 230V activated</b> : YES</p>		



# 12/ E26 Plate Heat Exchanger Inlet temperature sensor error

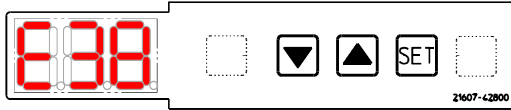
<p><b>E26 – Plate Heat Exch. Inlet temperature sensor error</b></p> <p><b>CDU :</b> CDU-M &amp; CDU-L : Loop C</p>	<p><b>CDU behavior:</b> No compressor shutdown with this error. The stop condition of the loop C with the superheat is not checked</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check operation of temperature sensor</li> <li>2. Check sensor connection</li> <li>3. Verify operation of PCB System Controller</li> </ol>	<p><b>Maintenance</b></p> <p><b>1 &amp; 2. Test and replace the probe :</b> Reference : THERMISTOR EOUR ASSY (91101-52060) <a href="#">See service guide : Maintenance sensor T &amp; transducer P</a></p> <p><b>3. If error continues, PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></p>
<p><b>Error condition:</b> disconnection or short circuit.</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> NO</p>		



# 13/ E27 Plate Heat Exchanger Outlet temperature sensor error

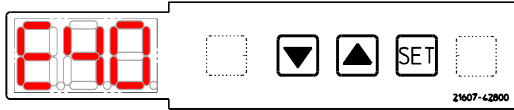
<p><b>E27 – Plate Heat Exch. Inlet temperature sensor error</b></p> <p><b>CDU :</b> CDU-M &amp; CDU-L : Loop C</p>	<p><b>CDU behavior:</b> No compressor shutdown with this error. The stop condition of the loop C with the superheat is not checked</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Check operation of temperature sensor</li> <li>2. Check sensor connection</li> <li>3. Verify operation of PCB System Controller</li> </ol>	<p><b>Maintenance</b></p> <p><b>1 &amp; 2. Test and replace the probe :</b> Reference : THERMISTOR EOUR ASSY (91101-52060) <a href="#">See service guide : Maintenance sensor T &amp; transducer P</a></p> <p><b>3. If error continues, PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></p>
<p><b>Error condition:</b> disconnection or short circuit for 30min.</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> NO</p>		





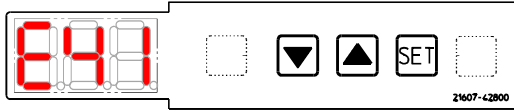
# 15/ E38 Suction temperature sensor error

<p><b>E38 – Suction temperature sensor error</b></p> <p>CDU : ALL, Loops A &amp; B</p>	<p><b>CDU behavior:</b> No compressor shutdown with this error.</p>	<p><b>Possible Causes &amp; Checks:</b></p> <ol style="list-style-type: none"> <li>1. Suction probes have been installed on all models since production began in Italy. For older models, such as R02A1A, R02A1B, R04A1A, R04A1B, R06A2A where suction probes are missing, check parameter value [P76=0] if probe is missing</li> <li>2. When the CDU is in negative operation (CDU-M or CDU-L) and the loop is missing some R744, the suction probe may indicate an out-of-range value and cause the E38 alarm: check the circuit tightness</li> <li>3. Check the operation of the temperature sensor</li> <li>4. Check sensor connection</li> <li>5. Verify operation of PCB System Controller</li> </ol>	<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. Check parameter value [P76=0] if suction probe is missing (old models) <a href="#">See CDU software guide and display</a></li> <li>2. Repair the leak on the circuit and add oil to the affected compressor: Oil PZ68S 145303 <a href="#">See CDU Oil Filling Procedure Guide</a></li> <li>3 &amp; 4. Test and <b>replace the probe</b> : Reference : THERMISTOR PB-36-10RD (91101-52440) <a href="#">See service guide : Maintenance sensor T &amp; transducer P</a></li> <li>5. If error continues, <b>PCB Controller replacement</b> : -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a></li> </ol>
<p><b>Error condition:</b> disconnection or short circuit or temperature out of range [-50°C, xx°C].</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> NO</p>		



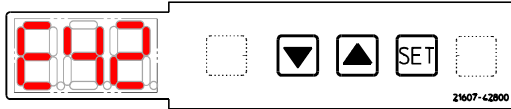
# 16/ E40 Modbus communication error

<p><b>E40 – Modbus communication error</b></p> <p>CDU : ALL, every loop</p>	<p><b>CDU behavior:</b> No compressor shutdown with this error.</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>0.</b> This error may occur only if communication has been established (Sanden Protocol or Modbus Protocol) and then broken for 10 minutes.</p>	<p><b>Maintenance</b></p>
<p><b>Error condition:</b> No communication for 10min</p> <p><b>Error cancellation:</b> Restoring the communication or power up</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> NO</p>	<p><b>1.</b> Check bus status and wiring. Check for other device on the Bus that may interfere with communication with the CDU</p> <p><b>2.</b> Stopping intentional communication causes this error (example: stopping local monitoring with PC and Sanden protocol).</p>	<p><b>1a.</b> Check wiring and settings</p> <p><b>1b.</b> Check and restart supervision</p> <p><b>2.</b> Turn off the CDU power after removing the Bus, then power on again.</p>



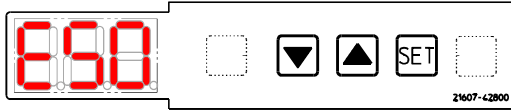
# 17/ E41 Low pressure cut

<p><b>E41 – Low pressure cut</b></p> <p><b>CDU :</b> ALL*, every loop  <i>*alarm available since SCU 8B8 MRT5 V1.01 program release (july 2022)</i></p>	<p><b>CDU behavior:</b>          Compressor impacted stops or does not start</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>0.</b> The Low Pressure Cut-off function is available on all CDU versions. When this happens, the compressor stops, without any error message.          The E41 alarm message associated with the Low Pressure cut-off exists since the program version SCU 8B8 MRT5 V1.01 (July 2022). The error display is configurable [P81:1] active by default.</p> <p><b>1.</b> Lack of R744 load: check operating parameters after 10/15min of operation: HP/BP, discharge temperature, superheat between 5K and 10K</p> <p><b>2.</b> Lack of R744 load due to leakage : Check circuit tightness</p> <p><b>3.</b> When the CDU is set up in negative mode (LT), the C loop may have to make LP shutdown when the temperature is close to 8°C outside (beginning of the C compressor operating authorization in this mode)</p> <p><b>Note:</b> When the pressure in the circuit is not sufficient to start the compressor, there is no E41 error message. Parameters [P08: 2.1MPa MT / 1.0MPa LT] , and [P84: 1.0MPa] when the outside temperature is below 0°C.</p>	<p><b>Maintenance</b></p> <p>1. Adjust gently the R744 load</p> <p>2. Repair the leak on the circuit and add oil to the affected compressor: Oil PZ68S 145303  <a href="#">See CDU Oil Filling Procedure Guide</a></p>
<p><b>Error condition:</b>  <u>1/LP cut delayed</u> when low pressure is below [A01/B01/C01:2.0MPa MT / 0.9MPa &amp; 1.5MPa LT] after timeout [P74:20min MT / 30min LT]  <u>2/ LP immediate shutdown</u> when low pressure is below cut-off [A01/B01/C01] minus offset [P75: 1.0MPa MT / 0.5MPa LT]</p> <p><b>Error cancellation:</b>          Back to normal operation.          Error displayed for 5min</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> NO</p>		



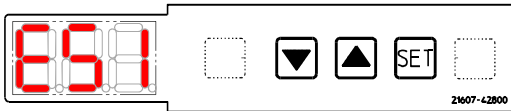
# 18/ E42 Inverter PCB communication error

<p><b>E42 – Inverter PCB communication error</b></p> <p><b>CDU :</b> ALL, every loop</p>	<p><b>CDU behavior:</b> Compressor impacted stops or does not start.</p>	<p><b>Possible Causes &amp; Checks:</b></p> <p><b>0.</b> During the start-up phase of the condensing unit or during a replacement of the PCB controller, changing the [P72] parameter may cause the E42 error.</p>	<p><b>Maintenance</b></p> <p><b>0.</b> adjust parameter [P72; 0 (230V) / 1 (400V) ] according to the device supply voltage</p>
<p><b>Error condition:</b> No communication for 30seconds</p> <p><b>Error cancellation:</b> Back to normal operation or power up after repair</p>	<p><b>Display :</b> YES</p> <p><b>Modbus Transmission :</b> YES</p> <p><b>Alarm output 230V activated :</b> YES</p>	<p><b>1.</b> Check the unit supply voltage if there is no phase missing.</p> <p><b>2.</b> This error code may occur when a control cable is disconnected. Check connections between PCB Controller, PCB filter and PCB Inverter.</p> <p><b>3.</b> If previous checks do not work: check operation of the inverter PCB: -swap the inverter PCB of the impacted loop with another one from another loop in the unit (CDU-L or CDU-M). Switching power off.</p>	<p><b>1.</b> 230V between phase and neutral and 400V between phases</p> <p><b>2.</b> Reconnect the cables <a href="#">See service guide : Maintenance Controller PCB</a> <a href="#">See service guide : Maintenance Filter PCB</a> <a href="#">See service guide : Maintenance Inverter PCB</a></p> <p><b>3.</b> If the compressor restarts, after swapping the inverter PCBs, <b>replace the inverter PCB</b>. Check the part number in the spare parts list according to the CDU model. <a href="#">See service guide : Maintenance Inverter PCB</a></p>



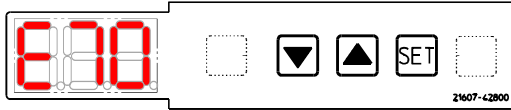
# 19/ E50 EEV calculation error

<b>E50 – EEV calculation error</b> <b>CDU :</b> ALL, every loop	<b>CDU behavior:</b> Compressor does not start	<b>Possible Causes &amp; Checks:</b> <b>0.</b> zero occurrence of this error <b>1.</b> Check position and connection of EEV coil <b>2.</b> Program reload requires Controller PCB replacement	<b>Maintenance</b> <b>1.</b> Reconnect EEV coil cable <b>2. PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a>
<b>Error condition:</b> possible occurrence during device initialization phase (power on)  <b>Error cancellation:</b> program reload	<b>Display :</b> YES  <b>Modbus Transmission :</b> YES  <b>Alarm output 230V activated :</b> NO		



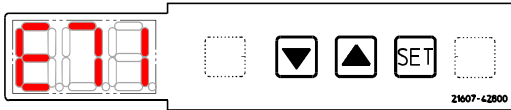
# 20/ E51 EEV integral error

<b>E50 – EEV integral error</b> <b>CDU :</b> ALL, every loop	<b>CDU behavior:</b> Compressor does not start	<b>Possible Causes &amp; Checks:</b> <b>0.</b> zero occurrence of this error <b>1.</b> Check position and connection of EEV coil <b>2.</b> Program reload requires Controller PCB replacement	<b>Maintenance</b> <b>1.</b> Reconnect EEV coil cable <b>2. PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a>
<b>Error condition:</b> possible occurrence during device initialization phase (power on)  <b>Error cancellation:</b> program reload	<b>Display :</b> YES  <b>Modbus Transmission :</b> YES  <b>Alarm output 230V activated :</b> NO		



## 21/ E70 Inverter calculation error

<b>E71– Inverter calculation error</b> <b>CDU</b> : ALL, every loop	<b>CDU behavior:</b> Compressor does not start	<b>Possible Causes &amp; Checks:</b> <b>0.</b> zero occurrence of this error <b>1.</b> Check position and connection of PCB Inverter <b>2.</b> Program reload requires Controller PCB replacement	<b>Maintenance</b> <b>1.</b> Reconnect PCB inverter cables <b>2. PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a>
<b>Error condition:</b> possible occurrence during device initialization phase (power on)  <b>Error cancellation:</b> program reload	<b>Display :</b> YES  <b>Modbus Transmission :</b> YES  <b>Alarm output 230V activated :</b> NO		



## 22/ E71 Inverter integral error

<b>E71 – Inverter integral error</b> <b>CDU</b> : ALL, every loop	<b>CDU behavior:</b> Compressor does not start	<b>Possible Causes &amp; Checks:</b> <b>0.</b> zero occurrence of this error <b>1.</b> Check position and connection of EEV coil <b>2.</b> Program reload requires Controller PCB replacement	<b>Maintenance</b> <b>1.</b> Reconnect PCB inverter cables <b>2. PCB Controller replacement :</b> -Compatible references : 20725-14350 / 4590170H10 / 4590336H11 <a href="#">See service guide : Maintenance PCB controller</a>
<b>Error condition:</b> possible occurrence during device initialization phase (power on)  <b>Error cancellation:</b> program reload	<b>Display :</b> YES  <b>Modbus Transmission :</b> YES  <b>Alarm output 230V activated :</b> NO		