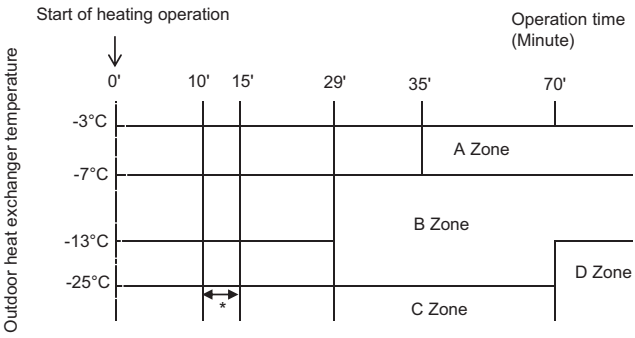
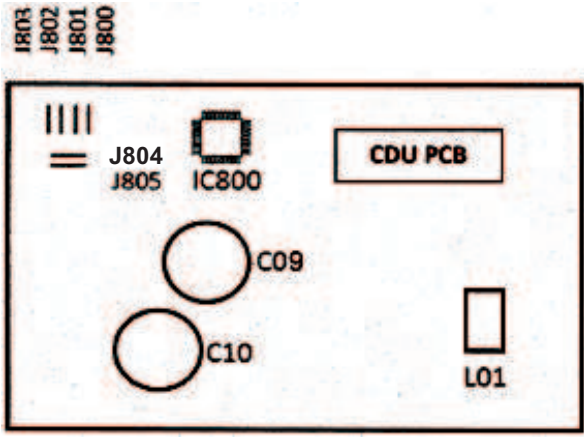


Item	Operation flow and applicable data, etc.	Description										
<p>7. Defrost control (Only in heating operation)</p>	<p>(This function removes frost adhered to the outdoor heat exchanger.)</p> <p>The temperature sensor of the outdoor heat exchanger (Te sensor) judges the frosting status of the outdoor heat exchanger and the defrost operation is performed with 4-way valve reverse defrost system.</p>  <p>* The minimum value of Te sensor 10 to 15 minutes after start of operation is stored in memory as Te0.</p> <p>Table 1</p> <table border="1" data-bbox="172 1041 938 1317"> <thead> <tr> <th>Zone</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>A zone</td> <td>When $(TE0 - TE) - (TO0 - TO) \geq 3^{\circ}C$ and $SH-SHO \leq 2$ in A zone, defrost operation starts.</td> </tr> <tr> <td>B zone</td> <td>When $(TE0 - TE) - (TO0 - TO) \geq 2^{\circ}C$ and $SH-SHO \leq 2$ in B zone, defrost operation starts.</td> </tr> <tr> <td>C zone</td> <td>When $TE \leq -25^{\circ}C$ and $SH-SHO \leq 2$ in C zone, defrost operation starts.</td> </tr> <tr> <td>D zone</td> <td>More than 70 minutes accumulated heating operation time condition $TE < -13^{\circ}C$</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Strong defrost Upgrade defrost ability when normal defrost ability is not enough by increase defrosting finished operation. • Do cut the jumper J803 on CDU PCB 	Zone	Condition	A zone	When $(TE0 - TE) - (TO0 - TO) \geq 3^{\circ}C$ and $SH-SHO \leq 2$ in A zone, defrost operation starts.	B zone	When $(TE0 - TE) - (TO0 - TO) \geq 2^{\circ}C$ and $SH-SHO \leq 2$ in B zone, defrost operation starts.	C zone	When $TE \leq -25^{\circ}C$ and $SH-SHO \leq 2$ in C zone, defrost operation starts.	D zone	More than 70 minutes accumulated heating operation time condition $TE < -13^{\circ}C$	<p>The necessity of defrost operation is detected by the outdoor heat exchanger temperature. The conditions to detect the necessity of defrost operation differ in A, B, or C zone each. (Table 1)</p> <p><Defrost operation></p> <ul style="list-style-type: none"> • Defrost operation in A to C zones <ol style="list-style-type: none"> 1) Stop operation of the compressor for 20 seconds. 2) Invert (ON) 4-way valve 10 seconds after stop of the compressor. 3) The outdoor fan stops at the same time when the compressor stops. 4) When temperature of the indoor heat exchanger becomes $38^{\circ}C$ or lower, stop the indoor fan. <p><Finish of defrost operation></p> <ul style="list-style-type: none"> • Returning conditions from defrost operation to heating operation <ol style="list-style-type: none"> 1) Temperature of outdoor heat exchanger rises to $+8^{\circ}C$ or higher. 2) Temperature of outdoor heat exchanger is kept at $+5^{\circ}C$ or higher for 80 seconds. 3) Defrost operation continues for 15 minutes. <p><Returning from defrost operation></p> <ol style="list-style-type: none"> 1) Stop operation of the compressor for approx. 50 seconds. 2) Invert (OFF) 4-way valve approx. 40 seconds after stop of the compressor. 3) The outdoor fan starts rotating at the same time when the compressor starts. <p><Finish of defrost operation for strong defrost></p> <ul style="list-style-type: none"> • Returning conditions from defrost operation to heating operation <ol style="list-style-type: none"> 1) Temperature of outdoor heat exchanger rises to $+13^{\circ}C$ or higher. 2) Temperature of outdoor heat exchanger is kept at $+10^{\circ}C$ or higher for 80 seconds. 3) Defrost operation continues for 20 minutes.
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A zone	When $(TE0 - TE) - (TO0 - TO) \geq 3^{\circ}C$ and $SH-SHO \leq 2$ in A zone, defrost operation starts.											
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