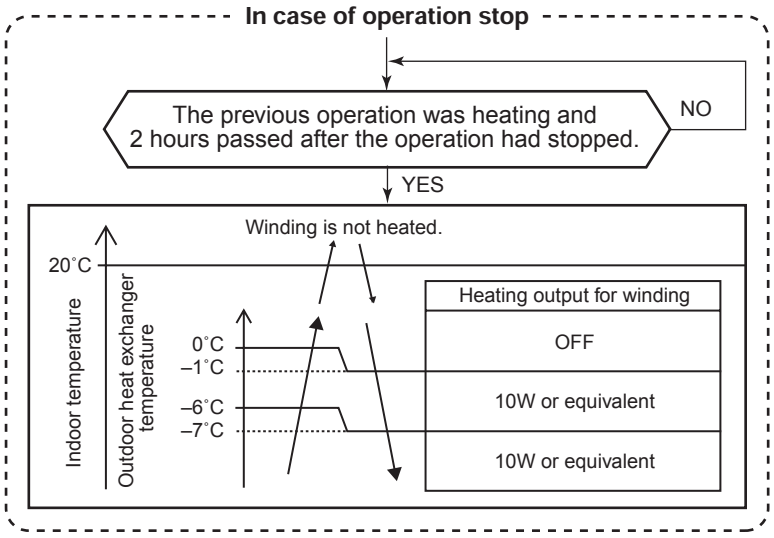
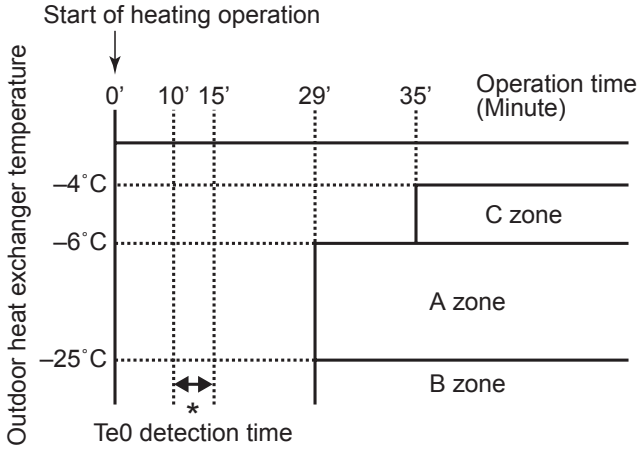
Item	Operation flow and applicable data, etc.	Description
7. Quick heating control	This function quickens the starting of heating operation when indoor/outdoor temperature is low. (Available only in heating operation) When indoor temperature is low, this function stores the heat by heating winding depended on the outdoor temperature and then it enables the hot air blowing out quickly. 	When the following conditions are satisfied, winding is heated by output varied by the outdoor heat exchanger temperature. **Condition 1 :** The previous operation was heating. **Condition 2 :** 2 hours passed after operation stop. **Condition 3 :** The room temperature is 20°C or lower. The indoor temperature sensor detects the room temperature. If the detected room temperature is 20°C or lower, the outdoor heat exchanger temperature sensor detects the outdoor heat exchanger temperature. As shown in the left figure, winding of the compressor is heated for each division of the temperature (≒ for each outdoor temperature) and the heat is stored.
8. Defrost control (Only in heating operation)	(This function removes frost adhered to the outdoor heat exchanger.) 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.  * The minimum value of Te sensor 10 to 15 minutes after start of operation is stored in memory as Te0. **Table 1** **A zone**: When Te0 - TE ≥ 2.5 continued for 2 minutes in A zone, defrost operation starts. **B zone**: When the operation continued for 2 minutes in B zone, defrost operation starts. **C zone**: When Te0 - TE ≥ 3 continued for 2 minutes in C zone, defrost operation starts.	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) **<Defrost operation>** • Defrost operation in A to C zones 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°C or lower, stop the indoor fan. **<Finish of defrost operation>** • Returning conditions from defrost operation to heating operation 1) Temperature of outdoor heat exchanger rises to +8°C or higher. 2) Temperature of outdoor heat exchanger is kept at +5°C or higher for 80 seconds. 3) Defrost operation continues for 15 minutes. **<Returning from defrost operation>** 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.