

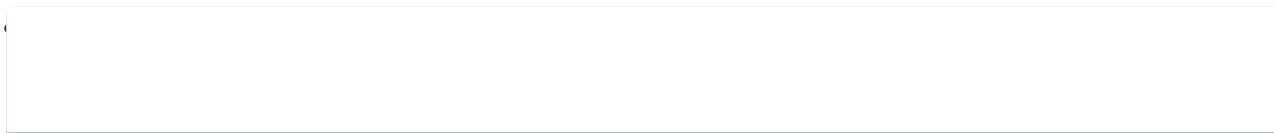
Defrost Control (Only In Heating Operation) - Toshiba RAS-18PKVSG-E Service Manual

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Bookmarks



Item

7. Defrost control

(This function removes frost adhered to the outdoor

(Only in heating heat exchanger.)

operation)

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.

Start of heating operation

Table 1

Defrost zone

In normal To

A zone

TE0-TE≥3°C & SH-SH0≤2

TE [°C]	0	10	15	[min.]

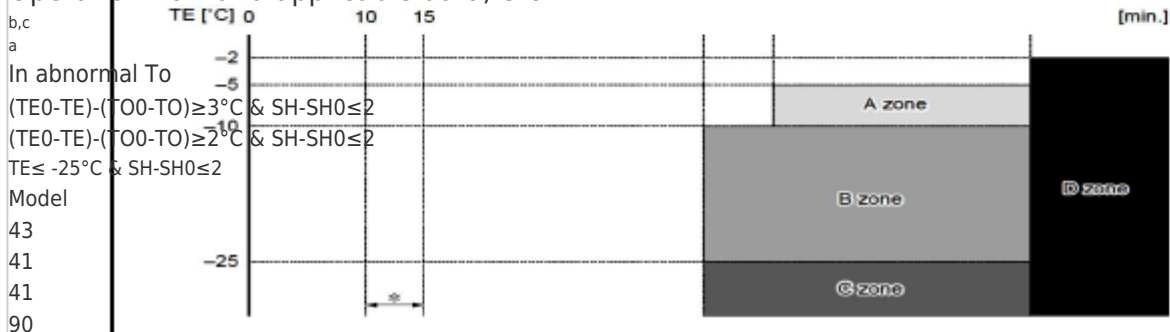
B zone
 $TE_0 - TE \geq 2^\circ\text{C}$ & $SH - SH_0 \leq 2$
 C zone
 D zone
 More than 90 minutes accumulate heating operation time condition $TE < -2^\circ\text{C}$

Table 2

Heating operation
 RAS-18PKVSG-E RAS-22PKVSG-E RAS-24PKVSG-E

(time)
 a
 41
 b
 39
 c
 39
 d
 90

Operation flow and applicable data, etc.



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

d
 2) Invert (ON) 4-way valve 10 seconds

3) The outdoor fan stops at the same time

4) When temperature of the indoor heat

<Finish of defrost operation>

• Returning conditions from defrost operation to heating operation

1) Temperature of outdoor heat exchanger rises to $+8^\circ\text{C}$ or higher.

2) Temperature of outdoor heat exchanger is kept at $+5^\circ\text{C}$ or higher for 80 seconds.

3) Defrost operation continues for 15 minutes.

<Returning from defrost operation>

1) Stop operation of the compressor for

41

39

39

2) Invert (OFF) 4-way valve approx. 40

70

3) The outdoor fan starts rotating at the

- 40 -

FILE NO. SVM-17001

Description		
20 seconds. after stop of the compressor. when the compressor stops. exchanger becomes 38°C or lower, stop the indoor fan. approx. 50 seconds. seconds after stop of the compressor. same time when the compressor starts.		

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Toshiba RAS-25S4KVPG-ND

[RAS-10S3AV-E Defrost Control \(Only In Heating Operation\)](#)

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Toshiba RAS-B05BKVG-E

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