

Release Protective Control By Temperature Of Indoor Heat Exchanger - Toshiba RAS-13SKV-E Service Manual

Indoor/outdoor unit, split type air conditioner

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68

69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118

119

120



•

[Table of Contents](#)

-

Troubleshooting

•

Bookmarks



Item

6. Release protective

<In cooling/dry operation>

control by tempera-
(Prevent freezing control for indoor heat exchanger)
ture of indoor heat

In cooling/dry operation, the sensor of indoor heat
exchanger
exchanger detects evaporation temperature and
controls the compressor speed so that temperature of
the heat exchanger does not exceed the specified
value.

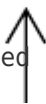
7°C

6°C

5°C

Reduction of compressor speed

temperature



|



<In heating operation>

(Prevent-overpressure control for refrigerating cycle)

In heating operation, the sensor of indoor heat exchanger detects condensation temperature and controls the compressor speed so that temperature of the heat exchanger does not exceed the specified value.

Reduction of compressor speed

55°C

52°C

48°C

Operation flow and applicable data, etc.

Usual cooling capacity control

Usual heating capacity control

R

When the value is in Q zone, the

Q

compressor speed is kept.

P

P

When the value is

Q

in Q zone, the compressor speed is kept.

R

R

- 38 -

Description

1) When temperature of the indoor heat exchanger drops below 5°C, the compressor speed is reduced. (P zone)

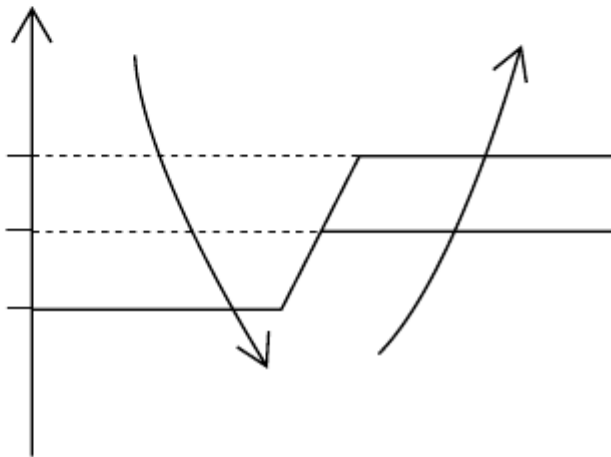
2) When temperature of the indoor heat exchanger rises in the range from 6°C to under 7°C, the compressor speed is kept. (Q zone)

3) When temperature of the indoor heat exchanger rises to 7°C or higher, the capacity control operation returns to the usual control in cooling operation. (R zone)

1) When temperature of the indoor heat exchanger rises in the range from 50°C to 55°C, the compressor speed is kept. (Q zone)

When temperature of the indoor heat exchanger drops in the

Indoor heat exchanger temperature



Indoor heat exchanger temperature



range from 46°C to under 55°C,
the compressor speed is kept.

(Q zone)

2) When temperature of the indoor
heat exchanger rises to 55°C or
higher, the compressor speed is
reduced. (P zone)

3) When temperature of the indoor
heat exchanger does not rise to
50°C, or when it drops below to
46°C, the capacity control
operation returns to the usual
control in heating operation.

(R zone)



Table of Contents

[Previous Page](#)
[Next Page](#)

1
...
35
36
37
38
39
40
41
42

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