

Indoor Fan Motor Control - Toshiba RAS-10SAVP-E Service Manual

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Troubleshooting

•

Bookmarks



Toshiba ilmalämpöpumppujen myynti, huolto ja asennus: Jäähdytinpalvelu RefGroup Oy, Vantaa

Item

2. Indoor fan

<In cooling operation>

motor control

(This operation controls the fan speed at indoor unit side.)

The indoor fan (cross flow fan) is operated by the phase-control induction motor. The fan rotates in 5 stages in MANUAL mode, and in 5 stages in AUTO mode, respectively.

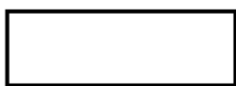
(Table 1)

COOL ON

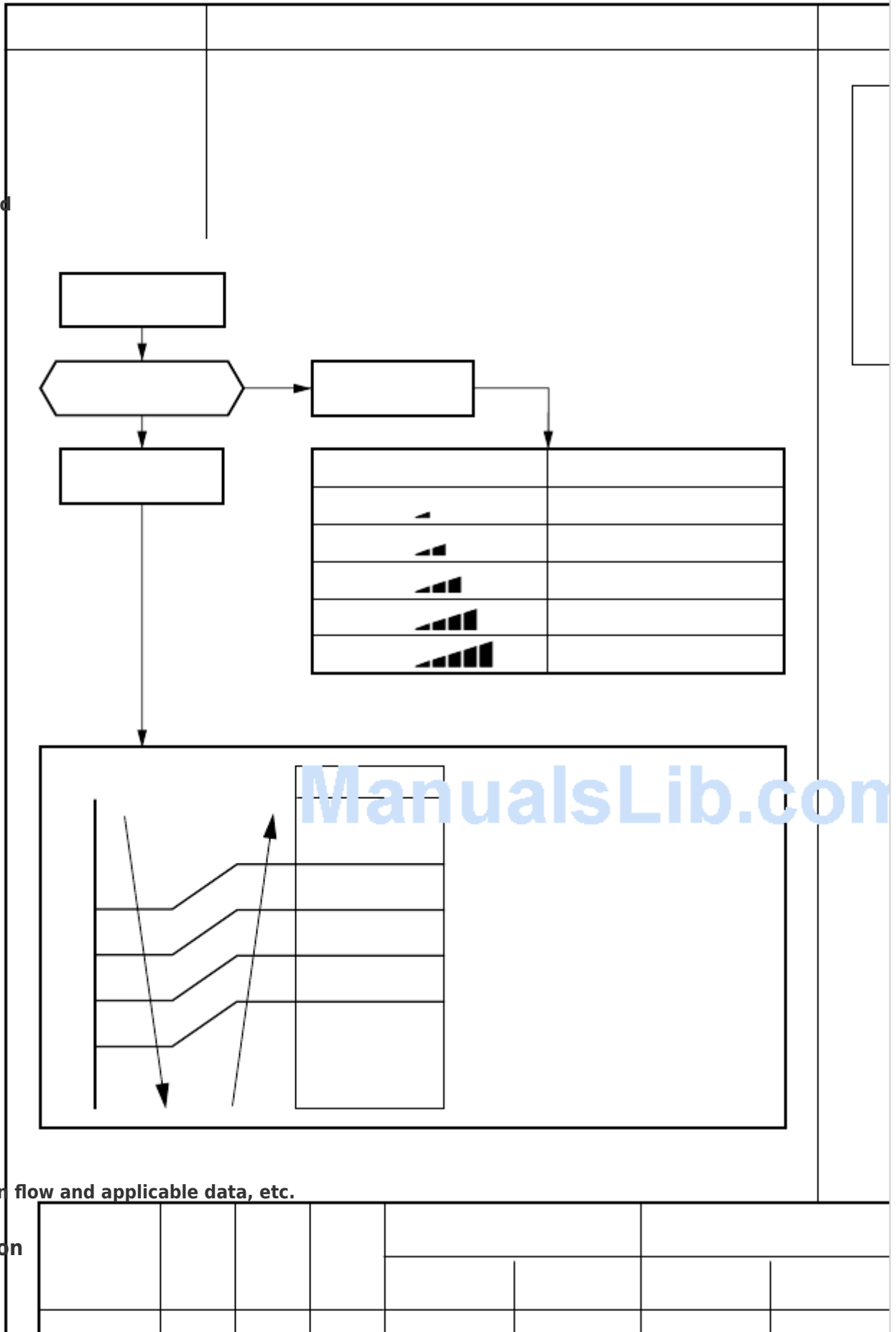
Fan speed setup

AUTO

Ta
[°C]



+2.5
a
+2.0
b
+1.5
+1.0
c
d
+0.5
e
Tsc
Fan speed
COOL
HEAT
level
WF
UH
WE
H
WD
UH
M+
WC
H
WB
M+
M
WA
W9
M
L+
W8
L
W7
L+
L-
W6
L
W5
L-
UL
W4
UL
W3
SUL
W2
SUL
W1
Operation flow and applicable data, etc.
MANUAL
Indication
L
L+



M
M+
H

Air volume AUTO

M+(WB)

*3

*3 : Fan speed = (M + -L) x 3/4 + L

*4 : Fan speed = (M + -L) x 2/4 + L

*4

*5

*5 : Fan speed = (M + -L) x 1/4 + L

(Linear approximation

L(W6)

from M+ and L)

(Table 1) Indoor fan air flow rate

RAS-B10SKVP-E

RAS-10SKVP-ND

DRY

Fan speed Air flow rate

(rpm)

(m

1630

1480

1400

1350

1200

1110

980

910

L+

900

L

860

L-

820

UL

730

SUL

630

600

600

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(Fig. 1)

Fan speed

W6

(L + M) / 2

W9

(M + H) / 2

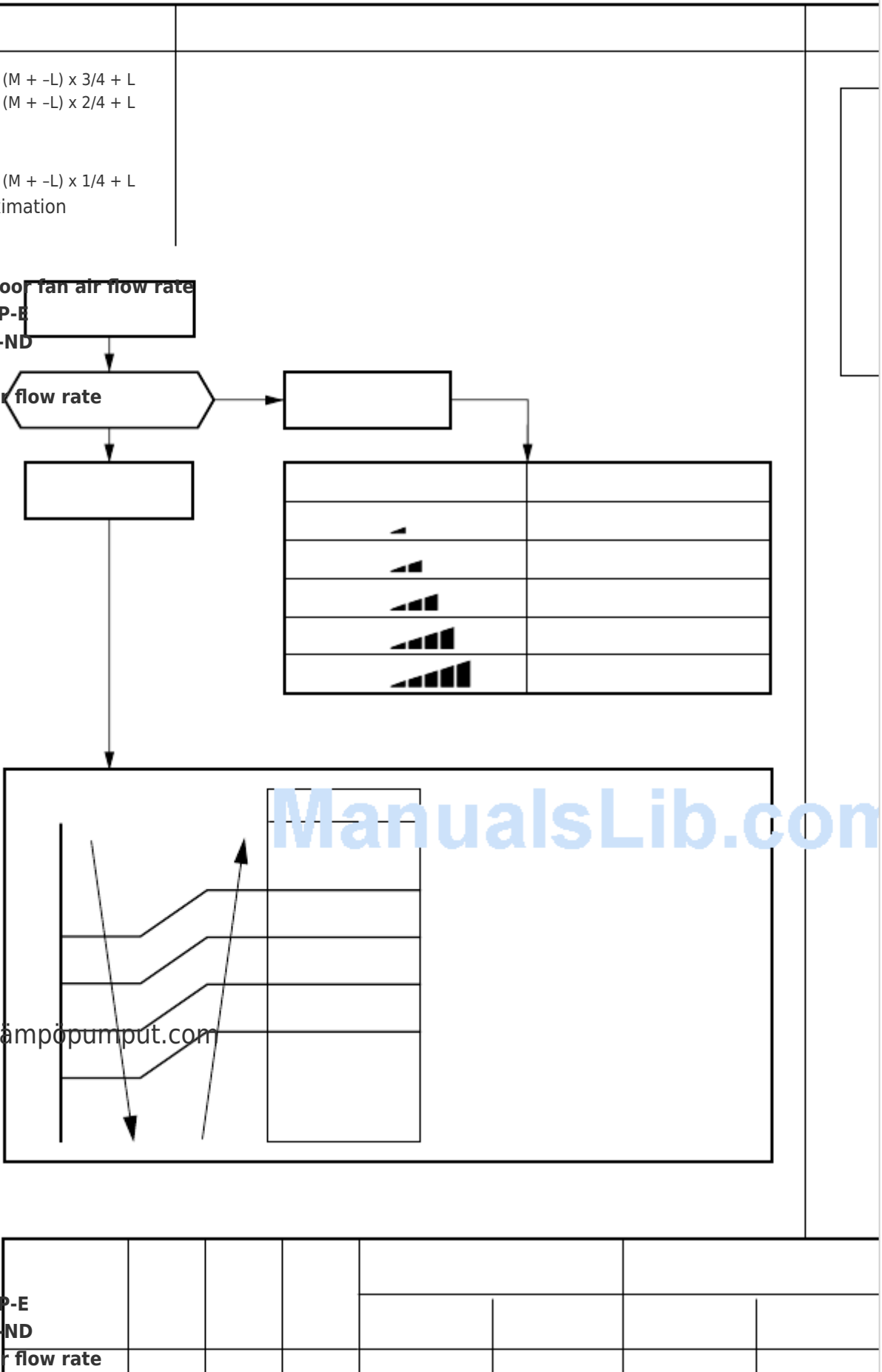
WC

(Fig. 2)

RAS-B13SKVP-E

RAS-13SKVP-ND

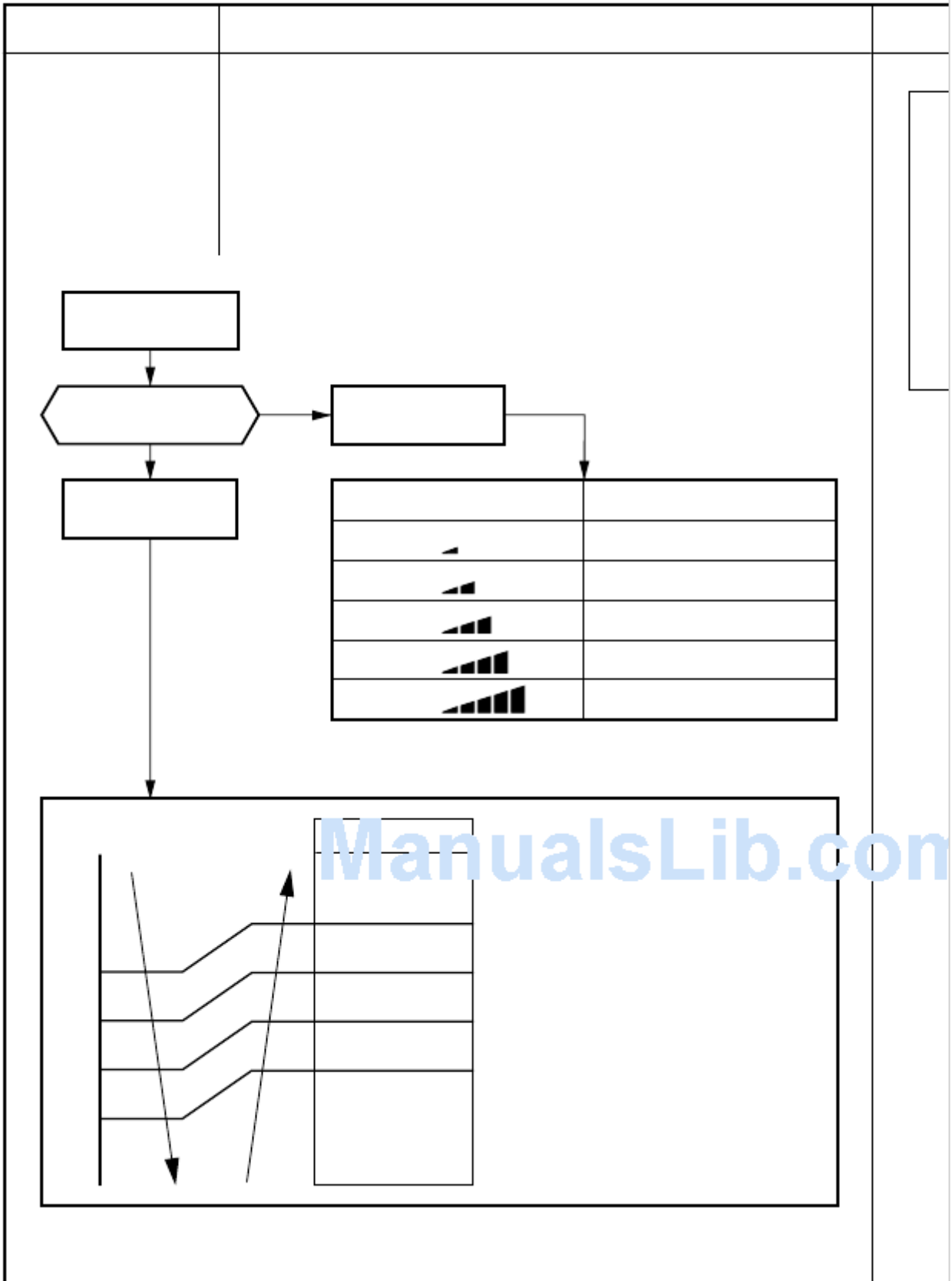
Fan speed Air flow rate



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3
/h)
(rpm)
(m

695
1650
705
615
1530
640
575
1440
595
550
1390
570
475
1240
495
430
1150
450
365
1010
380
325
910
325
320
900
320
300
860
300
280
820
280
235
730
235
185
630
185
170
600
170
600
170



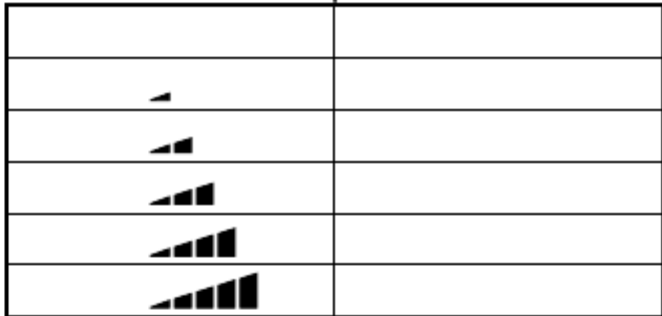
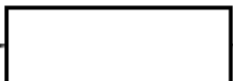
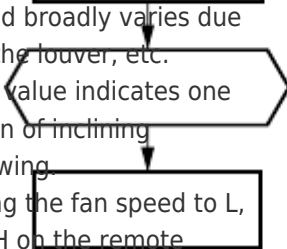
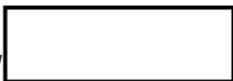
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Description
*** Symbols**
UH
: Ultra High

H
: High
M+
: Medium+
M
: Medium
L+
: Low+
L
: Low
L-
: Low-
UL
: Ultra Low
SUL
: Super Ultra Low

* The fan speed broadly varies due to position of the louver, etc. The described value indicates one under condition of inclining downward blowing.

1) When setting the fan speed to L, L+, M, M+ or H on the remote controller, the operation is performed with the constant speed shown in Fig. 1.

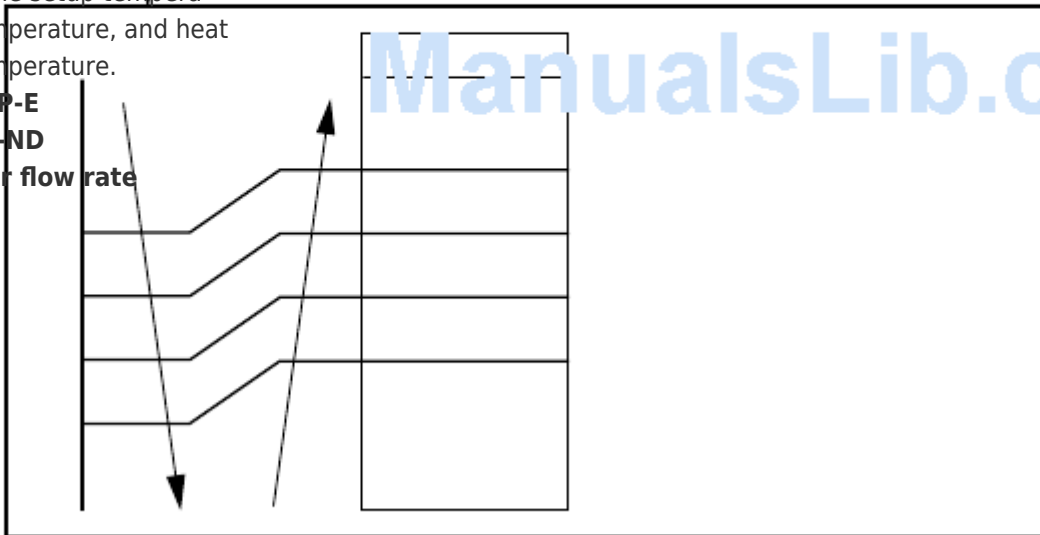
2) When setting the fan speed to AUTO on the remote controller, revolution of the fan motor is controlled to the fan speed level shown in Fig. 2 and Table 1 according to the setup temperature, room temperature, and heat exchanger temperature.



RAS-B16SKVP-E
RAS-16SKVP-ND

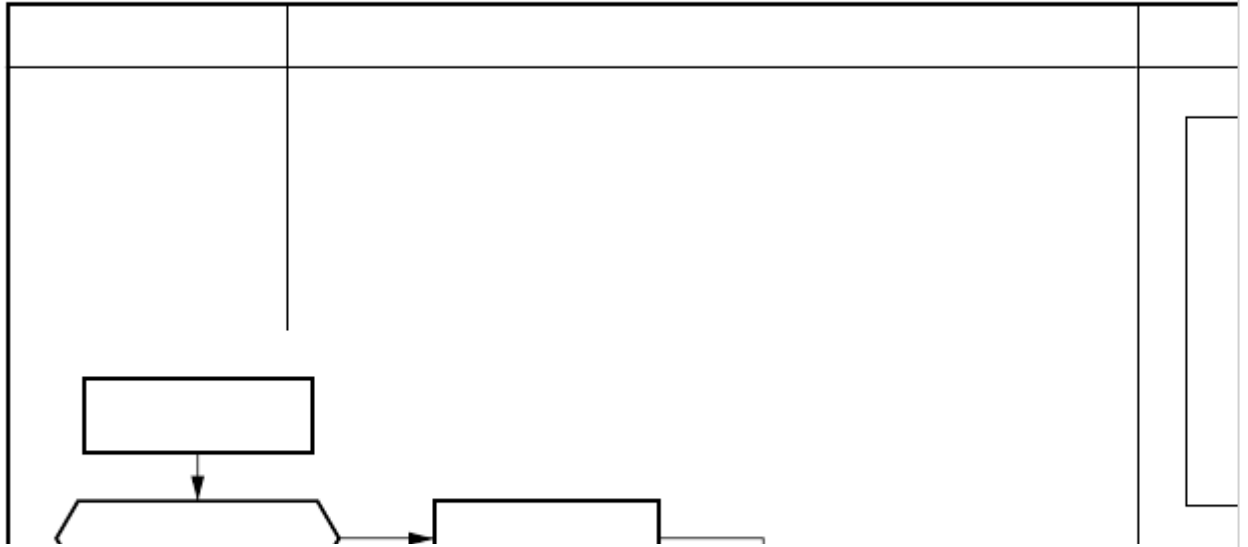
Fan speed Air flow rate

³
(h)
(rpm)
(m
1650
705
1580
670
1550
650
1500
625
1350
550
1230
490
1080



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415
970
355
960
350
920
330
900
320
790
265
640
190
600
170
600
170
3
/h)



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