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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA RAS-18PKVP-E. You'll find the answers to all your questions on the TOSHIBA RAS-18PKVP-E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TOSHIBA RAS-18PKVP-E
User guide TOSHIBA RAS-18PKVP-E
Operating instructions TOSHIBA RAS-18PKVP-E
Instructions for use TOSHIBA RAS-18PKVP-E
Instruction manual TOSHIBA RAS-18PKVP-E

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E09-321



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Manual abstract:

DIMENSION 3. WIRING DIAGRAM 4. SENSIBLE CAPACITY TABLE 5. PART LOAD PERFORMANCE 6. AIR SPEED DISTRIBUTION 7. @@ - max.)

Rated current (220V / 230 V / 240V) Power input Power input (min. @@0 7 - 0. @@@@@Piping Length Min. Piping Length Chargeless Length Max.

@@55 A Heating 4.0 0.3 - 6.1 4.01 / 3.

84 / 3.68 0.84 0.07 - 1.60 95 4.

76 A 9.5 RAS-13PKVP-E 295 x 790 x 242 12 696 / 318 193 / 88 696 / 348 193 / 97 30 45 / 27 45 / 27 60 / 42 60 / 42 RAS-13PAVP-E 550 x 780 x 290 40 43

750 Twin rotary 50 50 65 65 aiseikai PKVP/PAVP Technical specifications Heat Pump RAS-16PKVP-E RAS-16PAVP-E 220-240/1/50, 220-230/1/60 Cooling

4.5 0.3 - 5.0 5.81 / 5.56 / 5.33 1.22 0.07 - 1.

49 96 3.69 A Heating 5.5 0.3 - 6.5 6.24 / 5.97 / 5.72 1. 34 0.07 - 1.

70 98 4. @@07 - 1. 75 97 3. 36 A Heating 6.0 0.

3 - 6.7 7.16 / 6.85 / 6.57 1.

54 0.07 - 1.75 98 3.90 A 9.5 RAS-18PKVP-E 295 x 790 x 242 12 804 / 408 223 / 113 804 / 420 223 / 117 30 49 / 31 49 / 31 64 / 46 64 / 46 RAS-18PAVP-E

550 x 780 x 290 40 43 750 Twin rotary 52 52 67 67 6.35 - 12.7 1/4" - 1/2" Flare 20 2 15 10 6.35 - 12.7 1/4" - 1/2" Flare 20 2 15 10 WH-H06JE Remote

control holder Drain nipple Water-proof rubber cap (2 pieces) WH-H06JE Remote control holder Drain nipple Water-proof rubber cap (2 pieces) 21 to 32

deg C / 0 to 28 deg C -10 to 46 deg C / -15 to 24 deg C 21 to 32 deg C / 0 to 28 deg C -10 to 46 deg C / -15 to 24 deg C uper aiseikai PKVP/PAVP Dimension

RAS-07PAVP-E, RAS-10PAVP-E uper Dimension RAS-13PAVP-E, RAS-16PAVP-E, RAS-18PAVP-E aiseikai PKVP/PAVP uper aiseikai PKVP/PAVP

Wirering diagram RAS-07PKVP-E/RAS-07PAVP-E, RAS-10PKVP-E/RAS-10PAVP-E, RAS-13PKVP-E/RAS-13PAVP-E, RAS-16PKVP-E/RAS-16PAVP-E,

RAS-18PKVP-E/RAS-18PAVP-E uper Sensible capacity table Indoor Unit : RAS-07PKVP-E Outdoor Unit : RAS-07PAVP-E Outdoor temperature (CDB)

10.0 12.

0 14.0 16.0 18.0 20.0 21.0 23.0 25.0 27.0 29.0 31.

0 33.0 35.0 37.0 39.0 14.

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8 1.8 1.8 Indoor temperature 18.0 CWB 20.0 CWB 26.0 CDB 28.0 CDB TC SHC TC SHC (kW) (kW) (kW) (kW) 2.6 2.3 2.7 2.

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3 2.3 2.2 2.4 2.3 2.3 2.2 2.4 2.2 2.2 2.

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9 aiseikai PKVP/PAVP TC : Total cooling capacity SHC : Sensible heat capacity 22.0 CWB 30.0 CDB TC SHC (kW) (kW) 2.9 2.4 2.9 2.4 2.8 2.4 2.8 2.

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9 3.6 2.9 3.5 2.8 3.4 2.8 3.4 2.7 3.3 2.

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9 TC : Total cooling capacity SHC : Sensible heat capacity 22.0 CWB 30.0 CDB TC SHC (kW) (kW) 5.1 3.6 5.0 3.5 4.9 3.5 4.8 3.

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2 4.3 3.1 4.2 3.1 4.1 3.0 4.0 3.0 uper aiseikai PKVP/PAVP Sensible capacity table Indoor Unit : RAS-16PKVP-E Outdoor Unit : RAS-16PAVP-E Outdoor temperature (CDB) 10.0 12.

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4 TC : Total cooling capacity SHC : Sensible heat capacity 22.0 CWB 30.0 CDB TC SHC (kW) (kW) 6.5 4.4 6.4 4.3 6.3 4.2 6.2 4.

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8 TC : Total cooling capacity SHC : Sensible heat capacity 22.0 CWB 30.0 CDB TC SHC (kW) (kW) 7.2 4.8 7.

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0 CWB 32.0 CDB TC SHC (kW) (kW) 7.7 4.9 7.5 4.

8 7.4 4.8 7.3 4.7 7.1 4.6 7.0 4.6 6.9 4.

5 6.8 4.5 6.6 4.4 6.5 4.3 6.3 4.3 6.2 4.
2 6.6 4.1 5.9 4.0 5.

8 4.0 5.6 3.9 *uper Part load performance Indoor unit : RAS-07PKVP-E aiseikai PKVP/PAVP Outdoor unit : RAS-07PAVP-E Cooling Capacity Q(W) MINIMUM RATING MAXIMUM 300 2000 3000 Power consumption W(W) 70 355 680 Capacity Q(W) 300 2500 5000 Heating Power consumption W(W) 70 440 1300 Cooling Outdoor temperature (C) 40 35 30 25 20 Q W Q W Q W Q W Q W 100 1870 380 2000 355 2130 330 2260 300 2390 280 90 1680 320 1800 300 1920 280 2030 260 2150 240 80 1500 280 1600 260 1700 240 1810 220 1910 200 70 1310 240 1400 220 1490 200 1580 190 1670 170 60 1120 190 1200 180 1280 170 1350 150 1430 140 Load(%) 50 940 160 1000 150 1060 140 1130 130 1190 120 40 750 130 800 120 850 110 900 100 950 90 30 560 110 600 100 640 90 680 90 720 80 20 370 90 400 80 430 70 450 70 480 60 10 280 80 300 70 320 60 340 60 360 50 Heating Outdoor temperature (C) 20 15 10 7 5 2 0 -5 -7 -10 -15 Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W 100 3340 530 3020 490 2690 460 2500 440 2330 430 1810 390 1750 380 1600 350 1540 340 1400 320 1080 290 90 3000 460 2710 430 2420 400 2250 380 2100 370 1630 340 1580 330 1440 300 1390 300 1260 280 970 250 80 2670 400 2410 370 2150 350 2000 330 1870 320 1450 290 1400 280 1280 260 1240 260 1120 240 860 220 70 2340 340 2110 310 1890 290 1750 280 1630 270 1270 250 1230 240 1230 260 1190 250 1080 240 830 210 60 2000 290 1810 270 1620 250 1500 240 1400 230 1090 210 1050 210 1230 260 1190 250 1080 240 830 210 40 1340 190 1210 180 1080 830 210 Load(%) 50 1670 240 1510 220 1350 210 1250 200 1170 190 1090 210 1050 210 1230 260 1190 250 1080 240 830 210 40 1340 190 1210 180 1080 170 1000 16070 1250 260 1200 250 1090 240 840 210 20 1070 160 970 150 860 140 800 130 750 130 930 180 900 170 1250 260 1200 250 1090 240 840 210 *uper aiseikai PKVP/PAVP Part load performance Indoor unit : RAS-16PKVP-E Outdoor unit : RAS-16PAVP-E Cooling Capacity Q(W) MINIMUM RATING MAXIMUM 300 4500 5000 Power consumption W(W) 70 1220 1490 Capacity Q(W) 300 5500 6500 Heating Power consumption W(W) 70 1340 1700 Cooling Outdoor temperature (C) 40 35 30 25 20 Q W Q W Q W Q W Q W 100 4210 1310 4500 1220 4790 1130 5080 1050 5370 960 90 3790 1080 4050 1010 4310 940 4570 870 4830 790 80 3370 880 3600 820 3830 760 4060 700 4290 640 70 2950 720 3150 670 3350 620 3550 570 3760 530 60 2530 570 2700 530 2870 490 3050 450 3220 420 Load(%) 50 2110 440 2250 410 2390 380 2540 350 2680 320 40 1680 330 1800 310 1920 290 2030 270 2150 240 30 1260 250 1350 230 1440 210 1520 200 1610 180 20 840 160 900 150 960 140 1020 130 1070 120 10 420 100 450 90 480 80 510 80 540 70 Heating Outdoor temperature (C) 20 15 10 7 5 2 0 -5 -7 -10 -15 Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W Q W 100 7350 1610 6640 1510 5930 1400 5500 1340 5130 1300 3990 1190 3850 1150 3530 1070 3400 1040 3090 990 2380 880 90 6610 1380 5970 1290 5330 1200 4950 1150 4620 1110 3590 1020 3470 990 3180 920 3060 890 2780 850 2140 760 80 5880 1150 5310 1080 4740 1000 4400 960 4110 930 3190 850 3080 830 2820 770 2720 750 2470 710 1900 630 70 5140 950 4640 890 4150 830 3850 790 3590 770 2790 700 2700 680 2470 630 2380 610 2160 580 1660 520 60 4410 760 3980 710 3560 660 3300 630 3080 610 2390 560 2310 540 2120 510 2040 490 1850 460 1430 420 Load(%) 50 3670 580 3320 540 2960 500 2750 480 2570 470 1990 420 1930 410 1760 380 1700 370 1540 350 1190 320 40 2940 420 2650 390 2370 370 2200 350 2050 340 1590 310 1540 300 1410 280 1360 270 1230 260 950 230 30 2200 290 1990 270 1780 250 1650 240 1540 230 1200 210 1160 210 1310 260 1260 250 1140 240 880 210 20 1470 180 1330 170 1190 160 1100 150 1030 150 1000 180 960 170 1310 260 1260 250 1140 240 880 210 10 730 110 660 100 590 90 550 90 510 90 1000 180 960 170 1310 260 1260 250 1140 240 880 210 *uper Part load performance Indoor unit : RAS-18PKVP-E aiseikai PKVP/PAVP Outdoor unit : RAS-18PAVP-E Cooling Capacity Q(W) MINIMUM RATING MAXIMUM 300 5000 5500 Power consumption W(W) 70 1490 1750 Capacity Q(W) 300 6000 6700 Heating Power consumption W(W) 70 1540 1750 Cooling Outdoor temperature (C) 40 35 30 25 20 Q W Q W Q W Q W Q W Q W 100 4680 1600 5000 1490 5320 1380 5640 1280 5960 1170 90 4210 1340 4500 1250 4790 1160 5080 1070 5370 980 80 3740 1100 4000 1030 4260 960 4510 880 4770 810 70 3280 890 3500 830 3720 770 3950 710 4170 650 60 2810 700 3000 650 3190 600 3380 560 3580 510 Load(%) 50 2340 530 2500 490 2660 450 2820 420 2980 380 3000 3000 600 - 1200 NC-40 NC-30 NC-20 2400 - 4800 NC-70 10 20 - 75 10 20 - 75 Octave band frequency(Hz) Octave band frequency(Hz) RAS-10PAVP-E (Cooling) 90 80 70 NC-70 60 50 40 30 20 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 NC-60 NC-50 NC-40 NC-30 NC-20 2400 - 4800 RAS-10PAVP-E (Heating) 90 80 70 NC-70 60 50 40 30 20 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 NC-60 NC-50 NC-40 NC-30 NC-20 2400 - 4800 Octave band sound pressure level (dB) Octave band sound pressure level (dB) 10 20 - 75 10 20 - 75 Octave band frequency(Hz) Octave band frequency(Hz) *uper Sound characteristics (NC Curve) Measuring location Model name Outdoor unit RAS-13PAVP-E aiseikai PKVP/PAVP Sound pressure level (dB) Cooling 50 Heating 50 1m RAS-16PAVP-E 50 50 RAS-13PAVP-E (Cooling) 90 80 70 RAS-13PAVP-E (Heating) Octave band sound pressure level (dB) Octave band sound pressure level (dB) 90 80 70 60 50 40 NC-40 30 NC-30 20 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 NC-20 2400 - 4800 NC-70 60 50 40 30 20 NC-70 NC-60 NC-50 NC-60 NC-50 NC-40 NC-30 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 10 20 - 75 NC-20 2400 - 4800 10 20 - 75 Octave band frequency(Hz) Octave band frequency(Hz) RAS-16PAVP-E (Cooling) 90 80 70 NC-70 60 50 40 30 20 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 NC-60 NC-50 NC-40 NC-30 NC-20 2400 - 4800 RAS-16PAVP-E (Heating) 90 80 70 60 50 40 30 20 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 NC-60 NC-50 NC-40 NC-30 NC-20 2400 - 4800 Octave band sound pressure level (dB) Octave band sound pressure level (dB) 10 20 - 75 10 20 - 75 Octave band frequency(Hz) Octave band frequency(Hz) *uper aiseikai PKVP/PAVP Sound characteristics (NC Curve) Measuring location Model name Outdoor unit Sound pressure level (dB) Cooling Heating RAS-18PAVP-E 1m 52 52 RAS-18PAVP-E (Cooling) 90 80 70 60 NC-60 50 NC-50 40 NC-40 30 20 NC-30 Approximate threshold of hearing for continuous noise 150 - 300 600 - 1200 NC-20 2400 - 4800 RAS-18PAVP-E (Heating) 90 80 70 NC-70 60 50 40 30 20 Approximate threshold of hearing for continuous noise 10 20 - 75 150 - 300 600 - 1200 NC-60 NC-50 NC-40 NC-30 NC-20 2400 - 4800 Octave band sound pressure level (dB) NC-70 10 20 - 75 Octave band sound pressure level (dB) Octave band frequency(Hz) Octave band frequency(Hz) 23-17, TAKANAWA 3-CHOME, MINATO-KU, TOKYO, 108-0074, JAPAN Copyright © 2009 TOSHIBA CARRIER CORPORATION, ALL Rights Reserved.*****



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