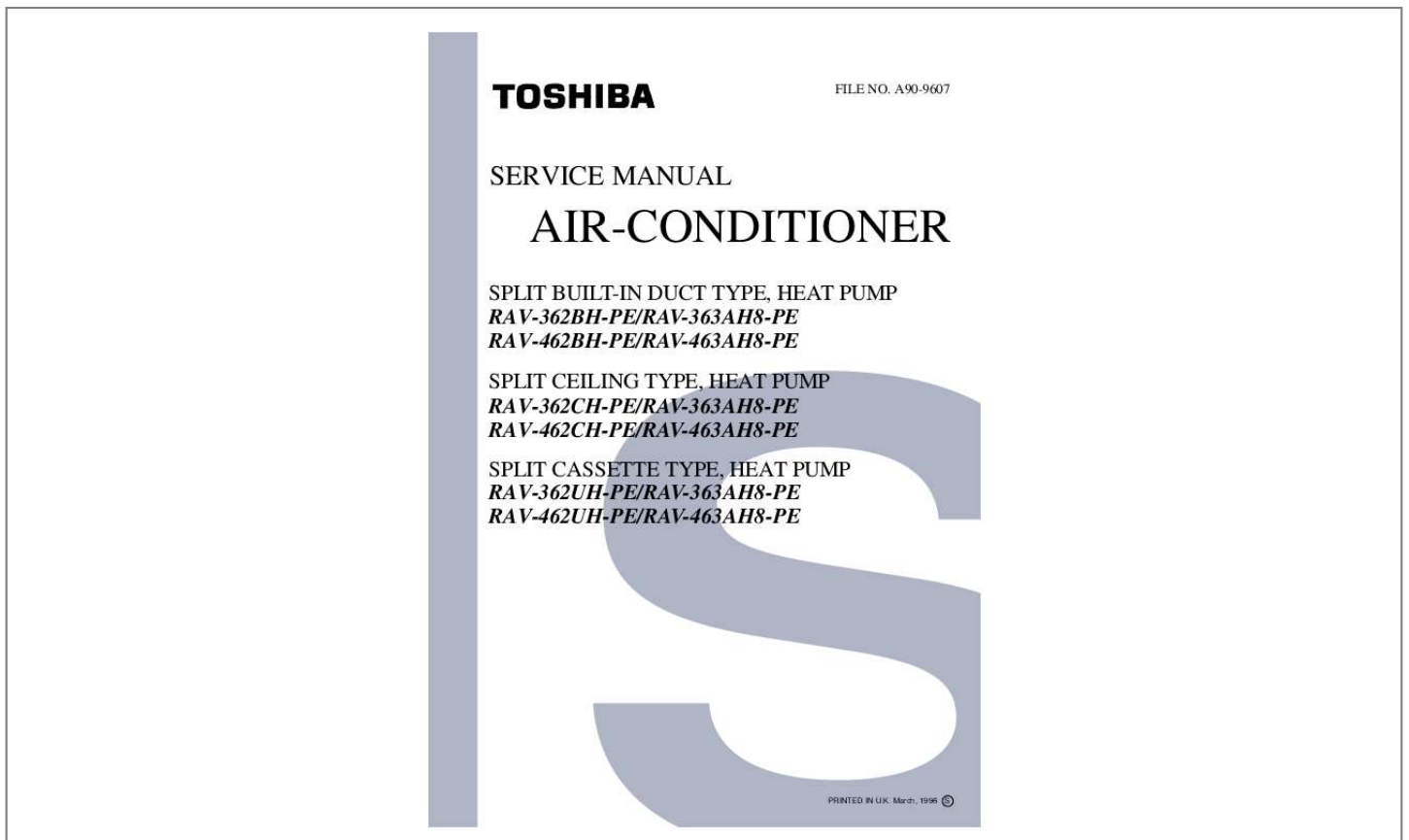




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA RAV-463AH8-PE. You'll find the answers to all your questions on the TOSHIBA RAV-463AH8-PE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TOSHIBA RAV-463AH8-PE
User guide TOSHIBA RAV-463AH8-PE
Operating instructions TOSHIBA RAV-463AH8-PE
Instructions for use TOSHIBA RAV-463AH8-PE
Instruction manual TOSHIBA RAV-463AH8-PE



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Manual abstract:

A90-9607 SERVICE MANUAL AIR-CONDITIONER SPLIT BUILT-IN DUCT TYPE, HEAT PUMP RAV-362BH-PE/RAV-363AH8-PE RAV-462BH-PE/RAV-463AH8-PE SPLIT CEILING TYPE, HEAT PUMP RAV-362CH-PE/RAV-363AH8-PE RAV-462CH-PE/RAV-463AH8-PE SPLIT CASSETTE TYPE, HEAT PUMP RAV-362UH-PE/RAV-363AH8-PE RAV-462UH-PE/RAV-463AH8-PE S PRINTED IN U.K. March, 1996 S CONTENTS 1. IMPORTANT

NOTES

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. 3 2. SPECIFICATIONS

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CONSTRUCTION VIEWS

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. 18 10. @@@@ Operating conditions of units are as follows: TEMPERATURE OUTDOOR TEMPERATURE ROOM TEMPERATURE -2 TO 43°C (COOL)
-10 TO 21°C (HEAT) 18 TO 32°C (COOL) 15 TO 29°C (HEAT) LESS THAN 80% (COOL) ROOM HUMIDITY Note 1: Cooling Capacity is based on the
following temperature conditions: Indoor air inlet temperature 27°C DB, 19°C WB. Outdoor air inlet temperature 35°C DB. Heating Capacity is based on the
following temperature conditions: Indoor air inlet temperature 20°C DB.

Outdoor air inlet temperature 7°C DB, 6°C WB. Note 2: -2- 1. IMPORTANT NOTES a. Refer to Service Manual, File No. A90-9503 for details of Indoor
Units and control circuits.

b. @@@@ @ @ c. @ @ @ @ d. Delivery Temperature Sensor (T.D. @ @ During abnormal conditions the following fault codes may appear: Fault Code "IE"
Indicates a Refrigerant Gas Leak. Fault Code "I9" Indicates T.D. sensor open circuit or short circuit. e.

Special Refrigerant Reclaim Procedure for Scroll Compressors When the refrigerant charge is reclaimed only from the discharge side of Scroll Compressor,
it is possible that the suction side of compressor remains pressurised. If a brazing torch is applied to the suction side the pressurised refrigerant and oil
mixture could ignite. THIS COULD RESULT IN A FIRE AND / OR SEVERE PERSONAL INJURY. The refrigerant gas MUST be reclaimed simultaneously
from the discharge and suction sides of the outdoor unit to avoid this possible problem. -3- 2. SPECIFICATIONS ITEM Cooling capacity Heating capacity

Power source kW kW Phase V Hz MODEL RAV-362BH-PE 10.0 10.8 3 380-415 50 COOLING HEATING 4.0 86 6.7 42 45/42/39 55 R-22 3.
4 50 Capillary tube & Expansion valve ø 19 (ø22) Flare ø 9.5 Flare 7.5 50 20 50 ø 32 (OD) RAV-362BH-PE 345 1,350 800 58 Finned tube Multi-blade fan
1,820 120 4 10 RAV-363AH8-PE Bronze white (Munsell 6Y7.5/1) 1,240 930 385 101 Finned tube Propeller fan RAV-462BH-PE 12.5 13.
8 3 380-415 50 COOLING 5.15 87 8.5 50 46/43/40 55 R-22 3.9 50 Capillary tube & Expansion valve ø 19 (ø22) Flare ø 9.5 Flare 7.

5 50 20 50 ø 32 (OD) RAV-462BH-PE HEATING 4.9 88 8.0 Power consumption Power factor Running current Starting current Operating noise (SPL) kW %
A A Indoor unit (High, Med, Low) dB (A) Outdoor unit dB (A) Name of refrigerant Charge volume Add. volume (20-50m) kg g/m mm mm m m 4.2 89 6.8

Refrigerant Refrigerant control Larger side size Coupler style Smaller side size Interconnection pipe Coupler style Standard length *1 Maximum pipe lengths
Maximum height difference m If indoor unit higher If outdoor unit higher Condensate drain pipe diameter INDOOR UNIT Model Appearance colour Height

Dimensions Net weight Heat exchanger type Indoor fan type Air volume Fan motor output External static pressure OUTDOOR UNIT Model Appearance
colour Height Dimensions Net weight Heat exchanger type Outdoor fan type Air flow volume Fan motor output Compressor Model Output Safety device

CEILING PANEL Model Appearance colour Height Dimensions Width Depth Net weight Air filter Flexible duct Blowout unit Suction canvas Long-life filter
kit Built-in duct filter kit Specifications are subject to change without notice. * Note 1: (ø22) should be used when length of pipe exceeds 30m. mm mm mm kg

kW m 3/h W Width Depth mm mm mm kg Standard Max. @ 2. o shows terminal block and figures show
terminal numbers.

Broken lines show wiring atx7P IDø 2X300Lx8P IDø 2.2X200Lx6P IDø 2X200Lx8P IDø 2X300Lx8P RAV-463AH8-PE IDø 3x600Lx1P RAV-363AH8-PE
IDø 2.4x650Lx1P IDø 1.7x1000Lx1P - 11 - 7. @ @ TE is for defrosting, while TL is for low ambient cooling operation. @ @ As 230V is used for transmitting
the signal, the microcomputer section is insulated with photo-coupler with 5V being supplied. (L) (N) AC Serial Serial input Input 5V h 0 Output 5V g 0 Serial
output 7.6 Abnormality-detecting circuit When high pressure switch is operated, abnormality is detected to stop the compressor. Abnormal input 5V 0
abnormal input 7.7 Relay circuit The relay circuit consists of the diagram on the right-hand side.

@ @ This allows the fan to operate at any one of 16 speeds. @ @ @ @ @ @ @ @ @ @ Pull out the connector of R phase (red) lead wire from terminal 1 and
connect it with the connector of lead wire for fan motor K1 output (red). Note: If the indoor unit is a cassette model, the float switch conector must be
removed from the PCB. Replace the electrical parts cover on the indoor unit. On the outdoor unit PCB short the test pins as follows: For Cooling Mode For
Heating Mode Short CN22 with CN23 Short CN22 with CN23 and CN20 with CN21 3 Switch on the power supply to the outdoor unit.

- 16 - 9. PERFORMANCE CHARACTERISTICS 9.1 Cooling capacity Capacity Ratio (%) 80 85 90 95 100 105 110 RAV-363AH8-PE 8.00 8.50 9.
00 9.50 10.00 10.50 11.5 11.00 11.50 12.00 120 10.00 10.63 11.25 11.

88 12.50 13.13 13.75 14.38 15.00 (KW) RAV-463AH8-PE Ambient Temp. (Dry Bulb) (°C) -2 ~ 10 Room Temp. (Wet Bulb) (°C) 9.2 Heating capacity Capacity
Ratio (%) RAV-363AH8-PE 12.96 12.
42 11.88 16.56 15.87 15.18 14.
49 13.80 13.11 12.42 11.73 11.
03 10.35 9.66 8.97 8.28 7.59 (KW) RAV-463AH8-PE Ambient Temp. (Wet Bulb) (°C) 11.34 10.80 10.26 9.

72 9.18 8.64 8.10 7.56 7.02 6.48 5.94 14 20 23 Room Temp. @ @ @ @ If the length of the pipe exceeds 20m, add the refrigerant R-22. @ @ @ @ The permissible
amount of refrigerant is the prescribed amount ±50g.

For RAV-363AH8-PE and RAV-463AH8-PE, if the length of pipe exceeds 30m the size of pipe at the gas side must be raised one rank (e.g. OD 19.0 22.2).
11 - 18 - 10. EXPLODED VIEWS AND PARTS LIST RAV-363AH8-PE RAV-463AH8-PE 43A91027 Location No. 1 2 3 4 5 6 7 8 9 10 11 14 14 15 16 17

18 18 19 Part No. 43A21002 43A21003 43120156 43A19001 43143638 43A43004 43143639 43A43003 43047492 43119368 43162027 43A41500 43A41501
43A42001 43146362 43146438 43146451 4314616 43147321 43146498 43146499 43146283 Description Motor, AC 230V, 50Hz, Fan Motor, AC 230V,
50Hz, Fan Fan, Propeller Guard, Fan Condenser, Lower Condenser, Lower Condenser, Upper Condenser, Upper Capillary Tube Hanger Cover, Electric
Parts Compressor, ZR49K3-TFD (RAV-363AH8-PE) Compressor, ZR61K3-TFD (RAV-463AH8-PE) Compressor Boot Expansion Valve Expansion Valve
Packed Valve (3/8") Packed Valve (3/4") Check Joint Valve, 4-Way Valve, 4-Way Check Valve (RAV-363AH8-PE) (RAV-463AH8-PE) (RAV-363AH8-PE)
(RAV-463AH8-PE) (RAV-363AH8-PE) (RAV-463AH8-PE) (RAV-363AH8-PE) (RAV463AH8-PE) (RAV-363AH8-PE) Location No.



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20 21 21 22 23 24 25 26 27 28 29 30 32 35 36 37 37 38 39 Part No.

43145092 43148096 43148114 43155080 43060479 43A60005 43A60001 43107215 43152334 43150196 43A50001 43A69006 43A46004 43A49001
43157167 43146430 43146431 43107215 43A58003 Dryer Accumulator Accumulator Description (RAV-363AH8-PE) (RAV-463AH8-PE) Capacitor, Plastic
Film Terminal, 4P Terminal, 4P Terminal, 4P Holder, Sensor (TL) Magnetic Contactor Sensor, Heat Exch. (TE) Sensor, Cond. (TL) PC Board Solenoid Coil
Switch, High-Pressure Heater, Crankcase Capillary Tube Capillary Tube Holder, Sensor (TE) Transformer, Power (RAV-363AH8-PE) (RAV-463AH8-PE) 40
41 42 43 43154148 43150261 43063219 43A60006 Reverse Phase Protector STR-4AB Sensor, Delivery Pipe (TD) Holder, Sensor (TD) Fuse F2 (T5A) - 19 -
PORSHAM CLOSE, BELLIVER INDUSTRIAL ESTATE, PLYMOUTH, PL6 7BP, U.K. - 20 - .



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