

AR-051 AIR CONDITIONER - DUCT

Zones 2

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AIR CONDITIONERS

ZONES 2 (gas)

The AR-051 explosion-safe air conditioners are based on the Toshiba RAV range and are made to safely ensure a good climate in an area where a release of gas, vapor or mist could possibly cause an explosive atmosphere (Zone 2). The units are widely used in office spaces, offshore temporary living quarters, crane cabins and at the storage of chemicals and flammable substances.

The AR-051 air conditioners are explosion-safe and certified in accordance with European directive 2014/34/EU (ATEX 114) and are CE marked. The systems can consist of a combination of explosion-safe and non-explosion-safe units, depending on the zoning of the area where the units are placed. During the conversion of the units to explosion-safe, the greatest possible attention is given to the maintainability and ease with which the units can be installed. The functionality remains completely intact.



Declaration of Conformity



ITEM REFERENCES (Industrial use, high and low temperatures, long pipes)

The industrial units have been designed for 24/7 operation, which, for instance, may be the case in process areas, laboratories and measuring rooms. The systems are provided with a stronger compressor, are energy efficient and extremely reliable.

- Based upon the Toshiba RAV-GP range of outdoor units.
- Pipe lengths of up to 50 meters for systems up to 10 kW and up to 75 meters for systems of 10 kW and higher.
- Cooling at an outside temperature of -15 °C up to +52 °C and heating starting at -27 °C.

Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0513	5,0 kW	5,6 kW	230 VAC / 50 Hz	16 A	1,61 kW	13A0201
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	480/800 m ³ /h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM561BTP	RAV-GP561ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
No	275 x 700 x 750 cm	23 kg	630 x 799 x 299 cm	45 kg		
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0713	7,1 kW	8,0 kW	230 VAC / 50 Hz	16 A	1,85 kW	13A0202
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	750/1200 m ³ /h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM801BTP	RAV-GP801ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
No	275 x 1000 x 750 cm	31 kg	1050 x 1010 x 370 cm	74 kg		
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1013	10,0 kW	11,2 kW	230 VAC / 50 Hz	20 A	2,73 kW	13A0203
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM1101BTP	RAV-GP1101AT	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
Yes	275 x 1400 x 750 cm	41 kg	1550 x 1010 x 370 cm	104 kg		

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ITEM REFERENCES (Industrial use, high and low temperatures, long pipes)						
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1213	12,5 kW	14,0 kW	230 VAC / 50 Hz	25 A	3,63 kW	13A0204
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM1401BTP	RAV-GP1401AT	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
Yes	275 x 1400 x 750 cm	41 kg	1550 x 1010 x 370 cm	104 kg		
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1423	14,0 kW	16,0 kW	400 VAC / 50 Hz	3x16 A	4,57 kW	13A0205
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM1601BTP	RAV-GP1601AT8	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
Yes	275 x 1400 x 750 cm	41 kg	1340 x 900 x 320 cm	95 kg		

ITEM REFERENCES (Industrial use, compact design)						
<p>The compact industrial units have been designed for 24/7 operation and are eminently suitable for application in mobile installations, container applications and crane cabins</p> <ul style="list-style-type: none"> • Based upon the Toshiba RAV-GM range of outdoor units. • For some models, the mains frequency 50 / 60 Hz is supported by the manufacturer. • Cooling at an outside temperature of -15 °C up to +46 °C and heating starting at -15 °C. 						
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0513 C	5,0 kW	5,3 kW	230 VAC / 50/60 Hz	16 A	1,83 kW	13A0206
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	480/800 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM561BTP	RAV-GM562ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
No	275 x 700 x 750 cm	23 kg	550 x 780 x 290 cm	40 kg		
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0713 C	6,7 kW	7,7 kW	230 VAC / 50 Hz	16 A	2,04 kW	13A0207
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	750/1200 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM801BTP	RAV-GM802ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
No	275 x 1000 x 750 cm	31 kg	630 x 799 x 299 cm	47 kg		
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0813 C	8,0 kW	8,6 kW	230 VAC / 50 Hz	16 A	2,39 kW	13A0208
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1000/1700 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM901BTP	RAV-GM902ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
No	275 x 1400 x 750 cm	41 kg	630 x 799 x 299 cm	47 kg		
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1013 C	9,5 kW	11,2 kW	230 VAC / 50 Hz	20 A	2,60 kW	13A0209
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101BTP	RAV-GM1102ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
No	275 x 1400 x 750 cm	41 kg	1050 x 1010 x 370 cm	85 kg		

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ITEM REFERENCES (Industrial use, compact design)						
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1023 C	9,5 kW	11,2 kW	400 VAC / 50 Hz	3x16 A	2,87 kW	13A0210
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101BTP	RAV-GM1102AT8W	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1213 C	12,1 kW	13,0 kW	230 VAC / 50 Hz	25 A	4,01 kW	13A0211
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401BTP	RAV-GM1402ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1223 C	12,1 kW	13,0 kW	400 VAC / 50 Hz	3x16 A	3,94 kW	13A0212
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401BTP	RAV-GM1402AT8W	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1423 C	14,0 kW	16,0 kW	400 VAC / 50 Hz	3x16 A	5,14 kW	13A0213
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2130 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1601BTP	RAV-GM1602AT8W	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	1050 x 1010 x 370 cm	85 kg	

ITEM REFERENCES (Light industrial use, in particular for 60 Hz applications)						
The light industrial units are designed for a mains frequency of 50 and 60 Hz.						
• Based on the Toshiba RAV-GV model series.						
• Mains frequency 50 / 60 Hz supported by the manufacturer.						
• Cooling from an outside temperature of -15 °C to +46 °C and heating from -15 °C.						
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0513 L	5,0 kW	5,3 kW	230 VAC / 50/60 Hz	16 A	1,85 kW	13A0214
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	480/800 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM561BTP	RAV-GV561ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 700 x 750 cm	23 kg	550 x 780 x 290 cm	36 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0713 L	6,7 kW	7,0 kW	230 VAC / 50/60 Hz	16 A	2,33 kW	13A0215
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	750/1200 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM801BTP	RAV-GV801ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1000 x 750 cm	31 kg	550 x 780 x 290 cm	39 kg	

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ITEM REFERENCES (Light industrial use, in particular for 60 Hz applications)						
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1013 L	9,5 kW	10,0 kW	230 VAC / 50/60 Hz	20 A	3,17 kW	13A0216
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101BTP	RAV-GV1101ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	630 x 800 x 300 cm	45 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1023 L	9,5 kW	10,0 kW	400 VAC / 50/60 Hz	3x16 A	3,10 kW	13A0217
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101BTP	RAV-GV1101AT8P	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	710 x 900 x 320 cm	59 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1213 L	11,5 kW	12,1 kW	230 VAC / 50/60 Hz	25 A	4,70 kW	13A0218
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401BTP	RAV-GV1401ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	710 x 900 x 320 cm	62 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1223 L	12,1 kW	12,3 kW	400 VAC / 50/60 Hz	3x16 A	4,90 kW	13A0219
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401BTP	RAV-GV1401AT8P	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	710 x 900 x 320 cm	59 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1423 L	13,0 kW	13,5 kW	400 VAC / 50/60 Hz	3x16 A	5,40 kW	13A0220
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2100 m ³ /h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1601BTP	RAV-GV1601AT8P	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	275 x 1400 x 750 cm	41 kg	890 x 900 x 320 cm	66 kg	

TECHNICAL SPECIFICATIONS	
Marking:	II 3G Ex ec h ic mc IIB+H ₂ T3 Gc (external unit) II 3G Ex ec h ic IIB+H ₂ T4 Gc (internal unit) Any combination of explosion-safe and non explosion-safe parts can be made
Certificate:	Declaration of Conformity
Conformity:	European directive 2014/34/EU (ATEX 114)
Standards applied:	EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-11:2012, EN 60079-18:2015 / A1:2017, EN 80079-36:2016 and EN 80079-37:2016
Piping size:	3/8" x 5/8"
Refrigerant:	R32
Remote control:	Wired remote control for fixed mounting against the wall. Provides access for service technicians to the error codes and high-level system parameters.