

AR-051 AIR CONDITIONER - CEILING

Zones 2

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AIR CONDITIONERS



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-051/0512	5,0 kW	5,6 kW	230 VAC / 50 Hz	16 A	1,39 kW	13A0501
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	540/900 m³/h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM561CTP	RAV-GP561ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 950 x 690 cm	23 kg	630 x 799 x 299 cm	45 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0712	7,1 kW	8,0 kW	230 VAC / 50 Hz	20 A	1,80 kW	13A0502
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	750/1410 m³/h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM801CTP	RAV-GP801ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1270 x 690 cm	29 kg	1050 x 1010 x 370 cm	74 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1012	10,0 kW	11,2 kW	230 VAC / 50 Hz	25 A	2,38 kW	13A0503
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1020/1860 m³/h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM1101CTP	RAV-GP1101AT	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	Yes	235 x 1586 x 690 cm	37 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-051/1212	12,5 kW	14,0 kW	230 VAC / 50 Hz	25 A	3,59 KW	13A0504
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1200/2040 m³/h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM1401CTP	RAV-GP1401AT	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	Yes	235 x 1586 x 690 cm	37 kg	1550 x 1010 x 370 cm	95 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1422	14,0 kW	16,0 kW	400 VAC / 50 Hz	3x16 A	4,60 kW	13A0505
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1200/2040 m³/h	-15 .. 52 °C	-27 .. 15 °C	RAV-HM1601CTP	RAV-GP1601AT8	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	Yes	235 x 1586 x 690 cm	237 kg	1340 x 900 x 320 cm	95 kg	

ITEM REFERENCES (Industrial use, compact design)						
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						
- 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-051/0312 C	3,6 kW	4,0 kW	230 VAC / 50/60 Hz	16 A	0,83 kW	13A0506
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	540/900 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM401CTP	RAV-GM402ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 950 x 690 cm	23 kg	550 x 780 x 290 cm	34 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0512 C	5,0 kW	5,3 kW	230 VAC / 50/60 Hz	16 A	1,61 kW	13A0507
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	540/900 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM561CTP	RAV-GM562ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 950 x 690 cm	23 kg	550 x 780 x 290 cm	40 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0712 C	6,7 kW	7,7 kW	230 VAC / 50 Hz	16 A	2,06 kW	13A0508
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	750/1410 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM801CTP	RAV-GM802ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1270 x 690 cm	29 kg	630 x 799 x 299 cm	47 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/0812 C	8,0 kW	8,6 kW	230 VAC / 50 Hz	20 A	2,38 kW	13A0509
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	900/1600 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM901CTP	RAV-GM902ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	630 x 799 x 299 cm	47 kg	

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ITEM REFERENCES (Industrial use, compact design)						
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1012 C	9,5 kW	11,2 kW	230 VAC / 50 Hz	20 A	2,86 kW	13A0510
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1020/1860 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101CTP	RAV-GM1102ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1022 C	9,5 kW	11,2 kW	400 VAC / 50 Hz	3x16 A	2,83 kW	13A0511
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1020/1860 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101CTP	RAV-GM1102AT8W	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1212 C	12,1 kW	13,0 kW	230 VAC / 50 Hz	25 A	4,01 kW	13A0512
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	12300/2040 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401CTP	RAV-GM1402ATW	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1222 C	12,1 kW	13,0 kW	400 VAC / 50 Hz	3x16 A	3,94 kW	13A0513
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1200/2040 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401CTP	RAV-GM1402AT8W	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	1050 x 1010 x 370 cm	85 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1422 C	14,0 kW	16,0 kW	400 VAC / 50 Hz	3x16 A	4,94 kW	13A0514
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2040 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1601CTP	RAV-GM1602AT8W	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 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-051/0512 L	5,0 kW	5,3 kW	230 VAC / 50/60 Hz	16 A	1,50 kW	13A0515
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	540/900 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM561CTP	RAV-GV561ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 950 x 690 cm	23 kg	550 x 780 x 290 cm	36 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-051/0712 L	6,7 kW	7,0 kW	230 VAC / 50/60 Hz	16 A	2,20 kW	13A0516
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	750/1410 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM801CTP	RAV-GV801ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1270 x 690 cm	29 kg	550 x 780 x 290 cm	39 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1012 L	9,5 kW	10,0 kW	230 VAC / 50/60 Hz	20 A	3,80 kW	13A0517
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1020/1860 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101CTP	RAV-GV1101ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	630 x 800 x 300 cm	45 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1022 L	9,5 kW	10,0 kW	400 VAC / 50/60 Hz	3x16 A	3,40 kW	13A0518
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1020/1860 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1101CTP	RAV-GV1101AT8P	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	710 x 900 x 320 cm	59 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1212 L	11,5 kW	12,1 kW	230 VAC / 50/60 Hz	25 A	4,70 kW	13A0519
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1200/2040 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401CTP	RAV-GV1401ATP	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	710 x 900 x 320 cm	62 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1222 L	12,1 kW	12,3 kW	400 VAC / 50/60 Hz	3x16 A	4,90 kW	13A0520
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1200/2040 m³/h	-15 .. 46 °C	-15 .. 15 °C	RAV-HM1401CTP	RAV-GV1401AT8P	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	710 x 900 x 320 cm	59 kg	
Designation:	Cooling capacity:	Heating capacity:	Supply voltage:	Fuse rating:	Capacity:	Item No.:
AR-051/1422 L	13,0 kW	13,5 kW	400 VAC / 50/60 Hz	3x16 A	5,40 kW	13A0521
	Air flow:	Cooling min/max:	Heating min/max:	Indoor unit model:	Outdoor unit model:	
	1260/2040 m³/h	-15 .. 46 °C	-15 .. 15 °C	AV-HM1601CTP	RAV-GV1601AT8P	
	Double ventilator:	Inner unit dimensions:	Inner unit weight:	Outdoor unit dimensions:	Outdoor unit weight:	
	No	235 x 1586 x 690 cm	37 kg	890 x 900 x 320 cm	66 kg	

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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.