

RAV R32 Big Digital Inverter 3-PH

TOSHIBA are pleased to announce the launch of the new RAV R32 Big Digital Inverter 3-PH outdoor units to join the light commercial system line up including new High Static Pressure Ducted indoor units.



- Maximum external static pressure 250Pa
- 3 stage selectable static pressure setting
- Digital inverter large outdoor unit
- Ideal for larger shops and retail premises
- Outdoor unit 400V, 3 phase supply
- High efficiency twin rotary inverter compressor
- Space-saving small footprint

This range of units has been designed to provide a high Capacity output from a very small foot print.

Powered by Toshiba's twin rotary compressor technology along with our inverter technology, these systems offer exceptionally high efficiency levels, long pipe runs and great flexibility for installation.

Ideal for large open spaces such as hotels foyers, restaurants, bars, gyms and retail premises.



5. Preliminary Specifications

Outdoor unit			RAV-GM2241AT8-E	RAV-GM2801AT8-E
Air Flow	m ³ /h - l/s		9150 - 2541	10890 - 3025
Sound pressure level	dB(A) C		58	61
Sound power level	dB(A) C		76	78
Operating range	°C C		-15 / 46	-15 / 46
Sound pressure level	dB(A) H		60	63
Sound power level	dB(A) H		76	80
Operating range	°C H		-27 / 15	-27 / 15
Dimensions (HxWxD)	mm		1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg		142	142
Compressor type			DC Twin Rotary	DC Twin Rotary
Flare connections				
Gas	in		1 1/8	1 1/8
Liquid	in		1/2	1/2
Minimum pipe length	m		5	5
Maximum pipe length	m		60	60
Maximum height difference	m		30	30
Chargeless pipe length	m		30	30
Power supply	V-ph-Hz		380/415-3N-50	380/415-3N-50

Type		High Static Ducted	High Static Ducted
Indoor unit		RAV-RM2241DTP-E	RAV-RM2801DTP-E
Air Flow	m ³ /h - l/s	3800 - 1055	4800 - 1333
Sound pressure level (back)	dB(A)	44	46
Sound power level (back)	dB(A)	79	81
Dimensions (HxWxD)	mm	448 x 1400 x 900	448 x 1400 x 900
Weight	kg	97	97
Upper limit/middle/standard	Pa	250/97/50,0	250/97/50,0

Indoor unit High Static Ducted			RAV-RM2241DTP-E	RAV-RM2801DTP-E
Outdoor unit			RAV-GM2241AT8-E	RAV-GM2801AT8-E
Cooling capacity	kW		19,0	22,5
Cooling range (min. - max.)	kW		4,6 - 22,4	4,6 - 27,0
Power input (min. - rated - max.)	kW C		1,27 - 5,86 - 9,05	1,27 - 7,98 - 11,87
EER			3,24	2,82
SEER			4,62	4,61
Energy efficiency class or η _{sc}	% C		181.8	181.4
Seasonal electricity consumption	kWh/a C		2468	2928
Heating capacity	kW		22,4	27,0
Heating range (min. - max.)	kW		4,6 - 25,0	4,6 - 31,5
Power input (min. - rated - max.)	kW H		1,27 - 5,71 - 10,15	1,27 - 7,52 - 13,83
COP	W/W		3,92	3,59
SCOP			3,51	3,44
Energy efficiency class or η _{sh(A)}	% H		137.4	134.6
Seasonal electricity consumption	kWh/a H		7174	8136

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TWIN-SPLIT COOLING				Capacity		Power input kW	EER kW/kW	SEER kW/kW	Energy class or η _{sc} %
Indoor unit type	OUTDOOR UNIT	INDOOR UNIT	HP	nominal	min. - max				
	RAV-	RAV-		kW	kW				
4-Way Cassette	GM2241AT8-E	RM1101UTP-E	8	20.0	4.6 - 22.4	5.56	3.60	6.53	258.2
	GM2801AT8-E	RM1401UTP-E	10	23.5	4.6 - 27.0	7.83	3.00	6.21	245.4
Ducted	GM2241AT8-E	RM1101BTP-E	8	20.0	4.6 - 22.4	6.17	3.24	5.03	198.2
	GM2801AT8-E	RM1401BTP-E	10	23.5	4.6 - 27.0	8.87	2.65	4.92	193.8
Ceiling	GM2241AT8-E	RM1101CTP-E	8	20.0	4.6 - 22.4	6.17	3.24	5.67	223.8
	GM2801AT8-E	RM1401CTP-E	10	23.5	4.6 - 27.0	8.97	2.62	5.16	203.4

TWIN -SPLIT HEATING				Capacity		Power input kW	EER kW/kW	SEER kW/kW	Energy class or η _{sh(A)} %
Indoor unit type	OUTDOOR UNIT	INDOOR UNIT	HP	nominal	min. - max				
	RAV-	RAV-		kW	kW				
4-Way Cassette	GM2241AT8-E	RM1101UTP-E	8	22.4	4.6 - 25.0	5.30	4.23	4.05	159.0
	GM2801AT8-E	RM1401UTP-E	10	27.0	4.6 - 31.5	7.10	3.80	3.90	153.0
Ducted	GM2241AT8-E	RM1101BTP-E	8	22.4	4.6 - 25.0	5.57	4.02	3.72	145.8
	GM2801AT8-E	RM1401BTP-E	10	27.0	4.6 - 31.5	7.46	3.62	3.64	142.6
Ceiling	GM2241AT8-E	RM1101CTP-E	8	22.4	4.6 - 25.0	5.71	3.92	3.79	148.6
	GM2801AT8-E	RM1401CTP-E	10	27.0	4.6 - 31.5	7.56	3.57	3.65	143.0

TTRIPLE-SPLIT COOLING				Capacity		Power input kW	EER kW/kW	SEER kW/kW	Energy class or η _{sc} %
Indoor unit type	OUTDOOR UNIT	INDOOR UNIT	HP	nominal	min. - max				
	RAV-	RAV-		kW	kW				
4-Way Cassette	GM2241AT8-E	RM801UTP-E	8	20.0	4.6 - 22.4	5.56	3.60	6.57	259.8
	GM2801AT8-E	RM801UTP-E	10	23.5	4.6 - 27.0	7.83	3.00	6.24	246.6
Ducted	GM2241AT8-E	RM801BTP-E	8	20.0	4.6 - 22.4	6.17	3.24	5.22	205.8
	GM2801AT8-E	RM801BTP-E	10	23.5	4.6 - 27.0	8.87	2.65	5.09	200.6
Ceiling	GM2241AT8-E	RM801CTP-E	8	20.0	4.6 - 22.4	6.17	3.24	5.59	220.6
	GM2801AT8-E	RM801CTP-E	10	23.5	4.6 - 27.0	8.97	2.62	5.16	203.4
High-wall	GM2241AT8-E	RM-801KRTP-E	8	20.0	4.6 - 22.4	6.67	3.00	5.58	220.2
	GM2801AT8-E	RM-801KRTP-E	10	23.5	4.6 - 27.0	9.22	2.55	5.30	209.0

TTRIPLE -SPLIT HEATING				Capacity		Power input kW	EER kW/kW	SEER kW/kW	Energy class or η _{sh(A)} %
Indoor unit type	OUTDOOR UNIT	INDOOR UNIT	HP	nominal	min. - max				
	RAV-	RAV-		kW	kW				
4-Way Cassette	GM2241AT8-E	RM801UTP-E	8	22.4	4.6 - 25.0	5.30	4.23	4.05	159.0
	GM2801AT8-E	RM801UTP-E	10	27.0	4.6 - 31.5	7.10	3.80	3.91	153.4
Ducted	GM2241AT8-E	RM801BTP-E	8	22.4	4.6 - 25.0	5.57	4.02	3.74	146.6
	GM2801AT8-E	RM801BTP-E	10	27.0	4.6 - 31.5	7.46	3.62	3.65	143.0
Ceiling	GM2241AT8-E	RM801CTP-E	8	22.4	4.6 - 25.0	5.71	3.92	3.79	148.6
	GM2801AT8-E	RM801CTP-E	10	27.0	4.6 - 31.5	7.56	3.57	3.65	143.0
High-wall	GM2241AT8-E	RM-801KRTP-E	8	22.4	4.6 - 25.0	6.12	3.66	3.76	147.4
	GM2801AT8-E	RM-801KRTP-E	10	27.0	4.6 - 31.5	7.65	3.53	3.63	142.2

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QUAD-SPLIT COOLING				Capacity		Power input kW	EER kW/kW	SEER kW/kW	Energy class or ηsc %
Indoor unit type	OUTDOOR UNIT	INDOOR UNIT	HP	nominal	min. - max				
	RAV-	RAV-		kW	kW				
4-Way Cassette	GM2241AT8-E	RM561UTP-E	8	20.0	4.6 - 22.4	5.56	3.60	6.57	259.8
	GM2801AT8-E	RM801UTP-E	10	23.0	4.6 - 27.0	7.83	3.00	6.16	243.4
Compact Cassette	GM2241AT8-E	RM561MUT-E	8	20.0	4.6 - 22.4	6.35	3.15	6.00	237.0
Ducted	GM2241AT8-E	RM561BTP-E	8	20.0	4.6 - 22.4	6.17	3.24	5.18	204.2
	GM2801AT8-E	RM801BTP-E	10	23.5	4.6 - 27.0	8.87	2.65	5.03	198.2
Slim Duct	GM2241AT8-E	RM561SDT-E	8	20.0	4.6 - 22.4	6.67	3.00	5.44	214.6
Ceiling	GM2241AT8-E	RM561CTP-E	8	20.0	4.6 - 22.4	6.17	3.24	5.68	224.2
	GM2801AT8-E	RM801CTP-E	10	23.5	4.6 - 27.0	8.97	2.62	5.06	199.4
High-wall	GM2241AT8-E	RM561KRTP-E	8	20.0	4.6 - 22.4	6.67	3.00	5.60	221.0
	GM2801AT8-E	RM801KRTP-E	10	23.5	4.6 - 27.0	9.22	2.55	5.22	205.8

QUAD - SPLIT HEATING				Capacity		Power input kW	EER kW/kW	SEER kW/kW	Energy class or ηsh(A) %
Indoor unit type	OUTDOOR UNIT	INDOOR UNIT	HP	nominal	min. - max				
	RAV-	RAV-		kW	kW				
4-Way Cassette	GM2241AT8-E	RM561UTP-E	8	22.4	4.6 - 25.0	5.30	4.23	4.05	159.0
	GM2801AT8-E	RM801UTP-E	10	27.0	4.6 - 31.5	7.10	3.80	3.90	153.0
Compact Cassette	GM2241AT8-E	RM561MUT-E	8	22.4	4.6 - 25.0	6.31	3.66	4.03	158.2
Ducted	GM2241AT8-E	RM561BTP-E	8	22.4	4.6 - 25.0	5.57	4.02	3.73	146.2
	GM2801AT8-E	RM801BTP-E	10	27.0	4.6 - 31.5	7.46	3.62	3.64	142.6
Slim Duct	GM2241AT8-E	RM561SDT-E	8	22.4	4.6 - 25.0	6.31	3.66	3.86	151.4
Ceiling	GM2241AT8-E	RM561CTP-E	8	22.4	4.6 - 25.0	5.71	3.92	3.80	149.0
	GM2801AT8-E	RM801CTP-E	10	27.0	4.6 - 31.5	7.56	3.57	3.64	142.6
High-wall	GM2241AT8-E	RM561KRTP-E	8	22.4	4.6 - 25.0	6.12	3.66	3.77	147.8
	GM2801AT8-E	RM801KRTP-E	10	27.0	4.6 - 31.5	7.65	3.53	3.63	142.2

OUTDOOR	HP	Cooling Capacity kW	Heating Capacity kW
RAV-GM2241AT8-E	8	19.0	22.4
RAV-GM2281AT8-E	10	22.5	27.0
INDOOR	HP	Cooling Capacity kW	Heating Capacity kW
RAV-RM2241DTP-E	8	19.0	22.4
RAV-RM2801DTP-E	10	22.5	27.0