

New R-32 Digital Inverter Products

TOSHIBA are pleased to announce the launch of the new R-32 Digital Inverter heat pumps indoor and outdoor units to join the light commercial product range.



1, 1.5, 2, 3 HP



4, 5 HP

1. Line Up

Outdoor Model	HP	Cooling	Heating	Type
RAV-GM301ATP-E	1.0	2.5	3.4	1-PH
RAV-GM401ATP-E	1.5	3.6	4.0	1-PH
RAV-GM561ATP-E	2.0	5.0	5.6	1-PH
RAV-GM801ATP-E	3.0	6.7	7.7	1-PH
RAV-GM1101ATP-E	4.0	9.5	11.2	1-PH
RAV-GM1101AT8P-E	4.0	9.5	11.2	3-PH
RAV-GM1401ATP-E	5.0	12.0	12.8	1-PH
RAV-GM1401AT8P-E	5.0	12.0	12.8	3-PH

Type	Indoor Model	HP
Compact Cassette	RAV-RM301MUT-E	1.0
	RAV-RM401MUT-E	1.5
	RAV-RM561MUT-E	2.0
4-Way Cassette	RAV-RM561UTP-E	2.0
	RAV-RM801UTP-E	3.0
	RAV-RM1101UTP-E	4.0
	RAV-RM1401UTP-E	5.0
Ceiling	RAV-RM401CTP-E	1.5
	RAV-RM561CTP-E	2.0
	RAV-RM801CTP-E	3.0
	RAV-RM1101CTP-E	4.0
Slim Ducted	RAV-RM1401CTP-E	5.0
	RAV-RM301SDT-E	1.0
	RAV-RM401SDT-E	1.5
Ducted	RAV-RM561SDT-E	2.0
	RAV-RM401BTP-E	1.5
	RAV-RM561BTP-E	2.0
	RAV-RM801BTP-E	3.0
	RAV-RM1101BTP-E	4.0
	RAV-RM1401BTP-E	5.0

2. Features

- Small compact chassis.
- Environmentally-responsible by using R32 refrigerant.
- Common Indoor for both R32 and R410A DI/SDI.
- Special coating (Magic coil) on Indoor fin for Healthy & Fresh air.

3. Production Date

FCU: 2-5HP beginning of March 2018 (excluding High-Wall which will be commence June 2018).

CDU: 1-5HP end of March 2018.

Anticipated availability ex-stock UK warehouse July 2018.

4. Accessories

Accessory Parts List		4-Way Smart Cassette				4-Way Cassette				Compact Cassette				Slim Ducted				Ducted				Under ceiling			
		series 1				series 1				series 1				series 1				series 1				series 1			
		RAV-GM561UT-E	RAV-GM801UT-E	RAV-GM1101UT-E	RAV-GM1401UT-E	RAV-RM561UTP-E	RAV-RM801UTP-E	RAV-RM1101UTP-E	RAV-RM1401UTP-E	RAV-RM301MUT-E	RAV-RM401MUT-E	RAV-RM451MUT-E	RAV-RM561MUT-E	RAV-RM301SDT-E	RAV-RM401SDT-E	RAV-RM451SDT-E	RAV-RM561SDT-E	RAV-RM561BTP-E	RAV-RM801BTP-E	RAV-RM1101BTP-E	RAV-RM1401BTP-E	RAV-RM561CTP-E	RAV-RM801CTP-E	RAV-RM1101CTP-E	RAV-RM1401CTP-E
Wired Remote Controller	RBC-AMS51E-EN,ES	OK				OK				OK				OK				OK				OK			
	RBC-AMS55E-EN, ES	OK				OK				OK				OK				OK				OK			
	RBC-AMS41E	OK				OK				OK				OK				OK				OK			
	RBC-AMT32E	OK				OK				OK				OK				OK				OK			
	RBC-AS41E	OK				OK				OK				OK				OK				OK			
Wireless Remote Controller	RBC-AX41U(W)-E	OK																							
	RBC-AX32UM(W)-E									OK															
	TCB-AX32E2	OK				OK				OK				OK				OK				OK			
	RBC-AX32U(W)-E					OK																			
	RBC-AX33CE																					OK			
Schedule Timer	TCB-EXS21TLE	OK				OK				OK				OK				OK				OK			
TCC-Link adaptor	TCB-PCNT30TLE2	OK				OK				OK				OK				OK				OK			
Ceiling Panel	RBC-U41PG(W)-E	OK																							
	RBC-UM21PG(W)-E									OK															
	RBC-U31PGP(W)-E					OK																			
Occupancy Sensor	TCB-SIR41UM-E									OK															
	TCB-SIR41U-E	OK																							
Fresh air filter chamber	TCB-GFC1603UE	OK																							
	TCB-GFC1602UE					OK																			
Spacer for height adjustment	TCB-SP1603UE	OK																							
	TCB-SP1602UE					OK																			
Air discharge direction kit	TCB-BC1603UE	OK																							
	TCB-BC1602UE					OK																			
Auxiliary fresh air flange	TCB-FF101URE2	OK				OK				OK				OK											
Optional connecting kit	TCB-PCUC1E																					OK			
Spigot shaped flange	TCB-SF56C6BPE																OK								
	TCB-SF80C6BPE																	OK							
	TCB-SF160C6BPE																		OK						

For further information please contact our customer support team on **0870 843 0333**, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - general.enquiries@toshiba-ac.com

5. Preliminary Specifications Compact Cassette (subject to change)

Model	Indoor unit		RAV- RM301MUT-E	RAV- RM401MUT-E	RAV- RM561MUT-E	
	Outdoor unit		RAV-GM301ATP-E	RAV-GM401ATP-E	RAV-GM561ATP-E	
Cooling capacity			(kW)	2.5 < 0.9-3.0 >	3.6 < 0.9-4.0 >	5.0 < 1.5 - 5.6 >
Heating capacity			(kW)	3.4 < 0.8-4.5 >	4.0 < 0.8-5.0 >	5.3 < 1.5 - 6.3 >
Power supply			1 phase 220V-240V/50Hz, 1phase 220V/60Hz			
Cooling	Running current		(A)	2.98-2.73	4.40-4.03	7.93-7.27
	Power consumption		(kW)	0.59	0.90	1.64
	Power factor		(%)	90	93	94
	EER			4.24	4.00	3.05
Heating	Running current		(A)	3.75-3.44	4.64-4.26	7.12 - 6.53
	Power consumption		(kW)	0.76	0.95	1.47
	Power factor		(%)	92	93	93
	COP			4.47	4.21	3.61
Maximum current			(A)	7.9	9.2	15.5
Indoor unit						
Appearance	Main unit		Zinc hot dipping steel plate *Heat-insulating material attached to upper plate only			
	Ceiling panel	Model	RBC-UM21PG(W)-E			
		Panel colour	Gran White (Mansell 5PB9/1)			
Outer dimension	Main unit	Height (mm)	256	256	256	
		Width (mm)	575	575	575	
		Depth (mm)	575	575	575	
	Ceiling panel	Height (mm)	12	12	12	
		Width (mm)	620	620	620	
		Depth (mm)	620	620	620	
Total weight	Main unit (kg)		15.0	15.0	15.0	
	Ceiling panel (Sold separately) (kg)		3.0	3.0	3.0	
Fan unit	Fan		Turbo fan			
	Air flow H/M/L (m3/h)		640/520/440 660/552/468 798/672/546			
	Motor (W)		60			
Air filter			Standard filter (Long life filter)			
Sound pressure level		H/M/L (dB)	38/36/30	41/36/32	44/39/35	
Sound power level		H/M/L (dB)	53/51/45	56/51/47	59/54/50	
Connecting pipe drain port			VP20			
Outdoor unit						
Air Flow (m3/h)			1,800	2,200	2,400	
Outer dimension	Height (mm)		550			
	Width (mm)		780			
	Depth (mm)		290			
Total weight	Main unit (kg)		33	39	40	
Pipe	Min. length (m)		2		5	
	Max. total length (m)		20		30	
Flare Connections	Gas side (mm)		9.5	12.7		
	Liquid side (mm)		6.4	6.4		
Sound pressure level	Cooling/Heating (dB)		46/47	49/50	46/48	
Sound power level	Cooling/Heating (dB)		61/62	64/65	63/65	
Operating Range	Cooling (°C)		-15/46			
	Heating (°C)		-15/15			

6. Preliminary Specifications 4-Way Cassette (subject to change)

Model		Indoor unit	RAV-RM561UTP-E	RAV-RM801UTP-E	RAV-RM1101UTP-E	RAV-RM1401UTP-E	RAV-RM1101UTP-E	RAV-RM1401UTP-E	
		Outdoor unit	RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	
Cooling capacity			(kW)	5.0 < 1.5 - 5.6 >	6.7 < 1.5 - 8.0 >	9.5 < 3.0 - 11.2 >	12.0 < 3.0 - 13.2 >	9.5 < 3.0 - 11.2 >	12.0 < 3.0 - 13.2 >
Heating capacity			(kW)	5.3 < 1.5 - 6.3 >	7.7 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz				3 phase 380V-415V/50Hz, 3phase 380V/60Hz	
Cooling	Running current	(A)	7.31 - 6.70	10.4 - 9.54	13.95-12.75	20.75-19.00	4.65-4.25	6.90-6.35	
	Power consumption	(kW)	1.56	2.22	2.87	3.57	2.87	3.57	
	Power factor	(%)	97	97	94	94	94	94	
	EER		3.21	3.02	3.31	2.80	3.31	2.80	
Heating	Running current	(A)	6.37 - 5.84	9.98 - 9.15	14.20-13.00	16.65-15.30	4.75-4.35	5.50-5.10	
	Power consumption	(kW)	1.36	2.13	2.93	3.46	2.93	3.46	
	Power factor	(%)	97	97	94	94	94	94	
	COP		3.90	3.62	3.82	3.76	3.82	3.76	
Maximum current			(A)	15.5	15.5	22.8	22.8	14.1	14.1
Indoor unit									
Appearance	Main unit		Zinc hot dipping steel plate						
	Ceiling panel	Model	RBC-U31PGPW-E , RBC-U31PGSPW-E						
		Panel colour	W: Moon-white(2.5GY 9.0/0.5)						
Outer dimension	Main unit	Height (mm)	256			319			
		Width (mm)	840						
		Depth (mm)	840						
	Ceiling panel	Height (mm)	30						
		Width (mm)	950						
		Depth (mm)	950						
Total weight	Main unit (kg)		20			24			
	Ceiling panel		4.2						
Fan unit	Fan		Turbo fan						
	Air flow H/M/L (m3/h)		1050/870/780	1230/960/810	2010/1440/1170	2100/1440/1230	2010/1440/1170	2100/1440/1230	
	Motor (W)		14	20	68	72	68	72	
Air filter			Standard filter (Long life filter)						
Sound pressure level		H/M/L (dB)	32/29/28	35/31/28	43/38/33	44/38/34	43/38/33	44/38/34	
Sound power level		H/M/L (dB)	47/44/43	50/46/43	58/53/48	59/53/49	58/53/48	59/53/49	
Connecting pipe drain port			VP25						
Outdoor unit									
Air Flow (m3/h)			2,400	2,700	4,080	4,200	4,080	4,200	
Outer dimension	Height (mm)	550			890		890		
	Width (mm)	780			900		900		
	Depth (mm)	290			320		320		
Total weight	Main unit (kg)		40	44	68	69			
Pipe	Min. length (m)		5						
	Max. total length (m)		30			50		50	
Flare Connections	Gas side (mm)	12.7		15.9					
	Liquid side (mm)	6.4		9.5					
Sound pressure	Cooling/Heating (dB)		46/48	48/52	54/57	55/57	54/57	55/57	
Sound power	Cooling/Heating (dB)		63/65	65/69	70/74	70/74	70/74	70/74	
Operating Range	Cooling (°C)		-15/46						
	Heating (°C)		-15/15						

7. Preliminary Specifications Ceiling (subject to change)

Model		Indoor unit	RAV-RM401CTP-E	RAV-RM561CTP-E	RAV-RM801CTP-E	RAV-RM1101CTP-E	RAV-RM1401CTP-E	RAV-RM1101CTP-E	RAV-RM1401CTP-E	
		Outdoor unit	RAV-GM401ATP-E	RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	
Cooling capacity			(kW)	3.6 < 0.9-4.0 >	5.0 < 1.5 - 5.6 >	6.9 < 1.5 - 7.4 >	9.5 < 3.0 - 11.2 >	12.1 < 3.0 - 13.2 >	9.5 < 3.0 - 11.2 >	12.1 < 3.0 - 13.2 >
Heating capacity			(kW)	4.0 < 0.8-5.0 >	5.3 < 1.5 - 6.3 >	7.7 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz					3 phase 380V-415V/50Hz 3phase 380V/60Hz	
Cooling	Running current	(A)	4.10-3.75	7.54 - 6.92	11.15 - 10.22	14.30-13.10	21.40-19.60	4.75-4.35	7.15-6.55	
	Power consumption	(kW)	0.83	1.61	2.38	2.95	4.42	2.95	4.42	
	Power factor	(%)	92	97	97	94	94	94	94	
	EER		4.34	3.11	2.90	3.22	2.74	3.22	2.74	
Heating	Running current	(A)	3.82-3.50	6.37 - 5.84	9.98 - 9.15	14.20-13.00	16.80-15.40	4.75-4.35	5.65-5.15	
	Power consumption	(kW)	0.78	1.36	2.13	2.94	3.48	2.94	3.48	
	Power factor	(%)	93	97	97	94	94	94	94	
	COP		5.13	3.90	3.62	3.81	3.74	3.81	3.74	
Maximum current			(A)	9.15	15.5	15.5	22.8	22.8	14.1	14.1
Indoor unit										
Appearance	Main unit		Pure white							
Outer dimension	Main unit	Height (mm)	235							
		Width (mm)	952	1,270			1,586			
		Depth (mm)	690							
Total weight	Main unit (kg)		23	29			37			
Fan unit	Fan		Centrifugal fan							
	Air flow H/M/L (m3/h)		900/720/540			1410/1002/750	1860/1350/1020	2040/1530/1200	1860/1350/1020	2040/1530/1200
	Motor (W)		94			139		139		
Air filter			Standard filter (Long life filter)							
Sound pressure level		H/M/L (dB)	37/35/28	37/35/28	41/36/29	44/38/32	46/41/35	44/38/32	46/41/35	
Sound power level		H/M/L (dB)	52/50/43	52/50/43	56/51/44	59/53/47	61/56/50	59/53/47	61/56/50	
Connecting pipe drain port			VP20							
Outdoor unit										
Air Flow (m3/h)			2200	2,400	2,700	4,080	4,200	4,080	4,200	
Outer dimension	Height (mm)	550	550			890		890		
	Width (mm)	780	780			900		900		
	Depth (mm)	290	290			320		320		
Total weight	Main unit (kg)	39	40	44	68		69			
Pipe	Min. length (m)	2.0				5				
	Max. total length (m)	20	30			50				
Flare Connections	Gas side (mm)	12.7	12.7	15.9						
	Liquid side (mm)	6.4	6.4	9.5						
Sound pressure level	Cooling/Heating (dB)	49/50	46/48	48/52	54/57	55/57	54/57	55/57		
Sound power level	Cooling/Heating (dB)	64/65	63/65	65/69	70/74	70/74	70/74	70/74		
Operating Range	Cooling (°C)	-15/46								
	Heating (°C)	-15/15								

8. Preliminary Specifications Slim Ducted (subject to change)

Model	Indoor unit		RAV- RM301SDT-E	RAV- RM401SDT-E	RAV-RM561SDT-E
	Outdoor unit		RAV-GM301ATP-E	RAV-GM401ATP-E	RAV-SM561ATP-E
Cooling capacity (kW)			2.5 < 0.9-3.0 >	3.6 < 0.9-4.0 >	5.0 < 1.5 - 5.6 >
Heating capacity (kW)			3.4 < 0.8-4.5 >	4.0 < 0.8-5.0 >	5.3 < 1.5 - 6.3 >
Power supply			1 phase 220V-240V/50Hz, 1phase 220V/60Hz		
Cooling	Running current (A)		2.82-2.60	4.60-4.20	8.95 - 8.20
	Power consumption (kW)		0.56	0.93	1.91
	Power factor (%)		90	92	97
	EER		4.46	3.87	2.62
Heating	Running current (A)		4.20-3.85	4.75-4.35	7.03 - 6.44
	Power consumption (kW)		0.86	0.97	1.50
	Power factor (%)		93	93	97
	COP		3.95	4.12	3.53
Maximum current (A)			7.9	9.2	15.5
Indoor unit					
Appearance	Main unit		Zinc hot dipping steel plate		
Outer dimension	Main unit	Height (mm)	210		
		Width (mm)	845		
		Depth (mm)	645		
Total weight	Main unit (kg)		22		
Fan unit	Fan		Centrifugal fan		
	Air flow H/M/L (m3/h)		660/560/480	690/600/522	780/678/582
	Motor (W)		60		
External static pressure	Standard (Upper - Lower) (Pa)		5-15-30-45 5-15-30-45 4-14-29-44		
Air filter			Standard filter (Long life filter)		
Sound pressure level		H/M/L (dB)	39/36/33		45/40/36
Sound power level		H/M/L (dB)	54/51/48		60/55/51
Connecting pipe drain port			VP25		
Outdoor unit					
Air Flow (m3/h)			1800	2200	2,400
Outer dimension	Height (mm)		550		
	Width (mm)		780		
	Depth (mm)		290		
Total weight	Main unit (kg)		33	39	40
Pipe	Min. length (m)		2		5
	Max. total length (m)		20		30
Flare Connections	Gas side (mm)		9.5	12.7	
	Liquid side (mm)		6.4	6.4	
Sound pressure level	Cooling/Heating (dB)		46/47	49/50	46/48
Sound power level	Cooling/Heating (dB)		61/62	64/65	63/65
Operating Range	Cooling (°C)		-15/46		
	Heating (°C)		-15/15		

9. Preliminary Specifications Ducted (subject to change)

Model	Indoor unit		RAV-RM561BTP-E	RAV-RM801BTP-E	RAV-RM1101BTP-E	RAV-RM1401BTP-E	RAV-RM1101BTP-E	RAV-RM1401BTP-E
	Outdoor unit		RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E
Cooling capacity (kW)			5.0 < 1.5 - 5.6 >	6.7 < 1.5 - 7.4 >	9.5 < 3.0 - 11.2 >	12.1 < 3.0 - 13.2 >	9.5 < 3.0 - 11.2 >	12.1 < 3.0 - 13.2 >
Heating capacity (kW)			5.3 < 1.5 - 6.3 >	7.7 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >	11.2 < 3.0 - 13.0>	13.0 < 3.0 - 16.0 >
Power supply			1 phase 220V-240V/50Hz, 1phase 220V/60Hz				3 phase 380V-415V/50Hz, 3phase 380V/60Hz	
Cooling	Running current (A)	8.58 - 7.86	11.20 - 10.20	14.50-13.20	21.40-19.60	4.85-4.45	7.15-6.55	
	Power consumption (kW)	1.83	2.38	2.99	4.42	2.99	4.42	
	Power factor (%)	97	97	94	94	94	p	
	EER	2.73	2.82	3.18	2.74	3.18	2.74	
Heating	Running current (A)	7.59 - 6.96	10.90 - 9.97	14.50-13.30	17.40-15.90	4.85-4.45	5.80-5.30	
	Power consumption (kW)	1.62	2.32	2.99	3.60	2.99	3.60	
	Power factor (%)	97	97	94	94	94	94	
	COP	3.27	3.32	3.75	3.61	3.75	3.61	
Maximum current (A)			15.5	15.5	22.8	22.8	14.1	14.1
Indoor unit								
Appearance	Main unit		Zinc hot dipping hot steel					
Outer dimension	Main unit	Height (mm)	275					
		Width (mm)	700	1,000	1,400			
		Depth (mm)	750					
Total weight	Main unit (kg)	23	30	40				
Fan unit	Fan		Centrifugal fan					
	Air Flow H/M/L (m3/h)	800/630/480	1200/930/720	2100/1650/1260	2100/1650/1260	2100/1650/1260	2100/1650/1260	
	Motor (W)	150		250		250		
External static pressure	Standard (Upper - Lower) (Pa)	30 (120 - 30)		50 (120 - 30)		50 (120 - 30)		
Air filter			Standard filter (Long life filter)					
Sound pressure level	H/M/L (dB)	33/29/25	34/30/26	40/36/33	40/36/33	40/36/33	40/36/33	
Sound power level	H/M/L (dB)	48/44/40	49/45/41	55/51/48	55/51/48	55/51/48	55/51/48	
Connecting pipe drain port			VP25					
Outdoor unit								
Air Flow (m3/h)			2,400	2,700	4,080	4,200	4,080	4,200
Outer dimension	Height (mm)	550		890		890		
	Width (mm)	780		900		900		
	Depth (mm)	290		320		320		
Total weight	Main unit (kg)	40	44	68		69		
Pipe	Min. length (m)	5						
	Max. total length (m)	30		50				
Flare Connections	Gas side (mm)	12.7	15.9					
	Liquid side (mm)	6.4	9.5					
Sound pressure level	Cooling/Heating (dB)	46/48	48/52	54/57	55/57	54/57	55/57	
Sound power level	Cooling/Heating (dB)	63/65	65/69	70/74	70/74	70/74	70/74	
Operating Range	Cooling (°C)	-15/46						
	Heating (°C)	-15/15						

10. Preliminary Specifications Compact Cassette Twin System (subject to change)

Model	Indoor unit 1		RAV-RM561MUT-E	RAV-RM561MUT-E
	Indoor unit 2		RAV-RM561MUT-E	RAV-RM561MUT-E
	Outdoor unit		RAV-GM1101ATP-E	RAV-GM1101AT8P-E
Cooling capacity (kW)			9.5 < 3.0 - 11.2 >	9.5 < 3.0 - 11.2 >
Heating capacity (kW)			11.2 < 3.0 - 13.0 >	11.2 < 3.0 - 13.0 >
Power supply			1 phase 220V-240V/50Hz 1phase 220V/60Hz	3 phase 380V-415V/50Hz 3phase 380V/60Hz
Cooling	Running current (A)		14.55-13.30	4.83-4.44
	Power consumption (kW)		3.00	3.00
	Power factor (%)		94	94
	EER		3.17	3.17
Heating	Running current (A)		15.44 - 14.15	5.15-4.70
	Power consumption (kW)		3.26	3.26
	Power factor (%)		96	96
	COP		3.44	3.44
Maximum current (A)			22.8	14.1
Indoor unit				
Appearance	Main unit		Zinc hot dipping steel plate	Zinc hot dipping steel plate
	Ceiling panel	Model	RBC-UM21PG(W)-E	RBC-UM21PG(W)-E
		Panel colour	Gran White (Mansell 5PB9/1)	Gran White (Mansell 5PB9/1)
Outer dimension	Main unit	Height (mm)	256	256
		Width (mm)	575	575
		Depth (mm)	575	575
	Ceiling panel	Height (mm)	12	27
		Width (mm)	620	700
		Depth (mm)	620	700
Total weight	Main unit (kg)		15	15
	Ceiling panel (Sold separately) (kg)		3	3
Fan unit	Fan		Turbo fan	Turbo fan
	Standard air flow			
	/L (m3/h)	H/M	798/672/546	798/672/546
	Motor (W)		60	60
Air filter			Standard filter (Long life filter)	Standard filter (Long life filter)
Sound pressure level		H/M/L (dB)	44/39/35	44/39/35
Sound power level		H/M/L (dB)	59/54/50	59/54/50
Connecting pipe drain port			VP20	VP20
Outdoor unit				
Air Flow (m3/h)			4,080	4,080
Outer dimension	Height (mm)		890	890
	Width (mm)		900	900
	Depth (mm)		320	320
Total weight	Main unit (kg)		68	69
Pipe	Min. length (m)		5	5
	Max. total length (m)		50	50
Flare Connections	Main	Gas (mm)	15.9	15.9
		Liquid (mm)	9.5	9.5
	Branch	Gas (mm)	12.7	12.7
		Liquid (mm)	6.4	6.4
Sound pressure level	Cooling/Heating (dB)		54/57	55/57
Sound power level	Cooling/Heating (dB)		70/74	70/74
Operating Range	Cooling (°C)		-15/46	-15/46
	Heating (°C)		-15/15	-15/15

11. Preliminary Specifications 4-Way Cassette Twin System (subject to change)

Model	Indoor unit 1		RAV-RM561UTP-E	RAV-RM801UTP-E	RAV-RM561UTP-E	RAV-RM801UTP-E	
	Indoor unit 2		RAV-RM561UTP-E	RAV-RM801UTP-E	RAV-RM561UTP-E	RAV-RM801UTP-E	
	Outdoor unit		RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	
Cooling capacity			(kW)	9.5 < 3.0 - 11.2 >	12.0 < 3.0 - 13.2 >	9.5 < 3.0 - 11.2 >	12.0 < 3.0 - 13.2 >
Heating capacity			(kW)	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >
Power supply			1 phase 220V-240V/50Hz 1phase 220V/60Hz		3 phase 380V-415V/50Hz 3phase 380V/60Hz		
Cooling	Running current		(A)	13.95-12.73	20.74 - 19.02	4.65-4.25	6.90-6.35
	Power consumption		(kW)	2.87	4.29	2.87	4.29
	Power factor		(%)	94	94	94	94
	EER			3.31	2.80	3.31	2.80
Heating	Running current		(A)	14.20-13.00	16.70-15.30	4.75-4.35	5.60-5.10
	Power consumption		(kW)	2.93	3.46	2.93	3.46
	Power factor		(%)	94	94	94	94
	COP			3.82	3.76	3.82	3.76
Maximum current			(A)	22.8	22.8	14.1	14.1
Indoor unit							
Appearance	Main unit		Zinc hot dipping steel plate		Zinc hot dipping steel plate		
	Ceiling panel (Sold separately)	Model	RBC-U31PGPW-E, RBC-U31PGSPW-E		RBC-U31PGPW-E, RBC-U31PGSPW-E		
		Panel colour	W:Moon-white(2.5GY 9.0/0.5)		W:Moon-white(2.5GY 9.0/0.5)		
Outer dimension	Main unit	Height (mm)	256		256		
		Width (mm)	840		840		
		Depth (mm)	840		840		
	Ceiling panel (Sold separately)	Height (mm)	30		30		
		Width (mm)	950		950		
		Depth (mm)	950		950		
Total weight	Main unit (kg)		20		20		
	Ceiling panel (Sold separately) (kg)		4.2		4.2		
Fan unit	Fan		Turbo fan		Turbo fan		
	Standard air flow	H/M/L (m3/h)	1050/870/780	1230/960/810	1050/870/780	1230/960/810	
	Motor (W)		14	20	14	20	
Air filter			Standard filter (Long life filter)		Standard filter (Long life filter)		
Sound pressure level		H/M/L (dB)	32/29/28	35/31/28	32/29/28	35/31/28	
Sound power level		H/M/L (dB)	47/44/43	50/46/43	47/44/43	50/46/43	
Connecting pipe drain port			VP25		VP25		
Outdoor unit							
Air Flow (m3/h)			4,080	4,200	4,080	4,200	
Outer dimension	Height (mm)		890		890		
	Width (mm)		900		900		
	Depth (mm)		320		320		
Total weight	Main unit (kg)		68		69		
Pipe	Min. length (m)		5		5		
	Max. total length (m)		50		50		
Flare Connections	Main	Gas (mm)	15.9		15.9		
		Liquid (mm)	9.5		9.5		
	Branch	Gas (mm)	12.7		12.7		
		Liquid (mm)	6.4		6.4		
Sound pressure level	Cooling/Heating (dB)		54/57	55/57	54/57	55/57	
Sound power level	Cooling/Heating (dB)		70/74	70/74	70/74	70/74	
Operating Range	Cooling (°C)		-15/46		-15/46		
	Heating (°C)		-15/15		-15/15		

12. Preliminary Specifications Ceiling Twin System (subject to change)

Model	Indoor unit 1		RAV-RM561CTP-E		RAV-RM801CTP-E		RAV-RM561CTP-E		RAV-RM801CTP-E			
	Indoor unit 2		RAV-RM561CTP-E		RAV-RM801CTP-E		RAV-RM561CTP-E		RAV-RM801CTP-E			
	Outdoor unit		RAV-GM1104ATP-E		RAV-GM1404ATP-E		RAV-GM1104AT8P-E		RAV-GM1404AT8P-E			
Cooling capacity			(kW)		9.5 < 3.0 - 11.2 >		12.1 < 3.0 - 13.2 >		9.5 < 3.0 - 11.2 >		12.1 < 3.0 - 13.2 >	
Heating capacity			(kW)		11.2 < 3.0 - 13.0 >		13.0 < 3.0 - 16.0 >		11.2 < 3.0 - 13.0 >		13.0 < 3.0 - 16.0 >	
Power supply					1 phase 220V-240V/50Hz 1phase 220V/60Hz				3 phase 380V-415V/50Hz 3phase 380V/60Hz			
Cooling	Running current		(A)		14.30-13.10		21.37 - 19.59		4.75-4.35		7.15-6.55	
	Power consumption		(kW)		2.95		4.42		2.95		4.42	
	Power factor		(%)		94		94		94		94	
	EER				3.22		2.74		3.22		2.74	
Heating	Running current		(A)		14.20-13.00		16.80-15.40		4.75-4.35		5.65-6.15	
	Power consumption		(kW)		2.94		3.48		2.94		3.48	
	Power factor		(%)		94		94		94		94	
	COP				3.81		3.74		3.81		3.74	
Maximum current					22.8		22.8		14.1		14.1	
Indoor unit												
Appearance		Main unit		Pure White				Pure White				
Outer dimension	Main unit	Height (mm)		235				235				
		Width (mm)		950		1,270		950		1,270		
		Depth (mm)		690				690				
Total weight		Main unit		23		29		23		29		
Fan unit	Fan		Centrifugal fan				Centrifugal fan					
	Air flow		H/M/L (m3/h)		900/720/540		1410/1002/750		900/720/540		1410/1002/750	
	Motor		(W)		94				94			
Air filter			Long life filter				Long life filter					
Sound pressure level		H/M/L (dB)		37/35/28		41/36/29		37/35/28		41/36/29		
Sound power level		H/M/L (dB)		52/50/43		56/51/44		52/50/43		56/51/44		
Connecting pipe drain port			VP20				VP20					
Outdoor unit												
Air Flow			(m3/h)		4,080		4,200		4,080		4,200	
Outer dimension	Height		(mm)		890				890			
	Width		(mm)		900				900			
	Depth		(mm)		320				320			
Total weight		Main unit (kg)		68				69				
Pipe	Min. length		(m)		5				5			
	Max. total length		(m)		50				50			
Flare Connections	Main	Gas (mm)		15.9				15.9				
		Liquid (mm)		9.5				9.5				
	Branch	Gas (mm)		12.7				12.7				
		Liquid (mm)		6.4				6.4				
Sound pressure level		Cooling/Heating (dB)		54/57		55/57		54/57		55/57		
Sound power level		Cooling/Heating (dB)		70/74		70/74		70/74		70/74		
Operating Range	Cooling (°C)		-15/46				-15/46					
	Heating (°C)		-15/15				-15/15					

13. Preliminary Specifications Slim Ducted Twin System (subject to change)

Model	Indoor unit 1		RAV-RM561SDT-E	RAV-RM561SDT-E
	Indoor unit 2		RAV-RM561SDT-E	RAV-RM561SDT-E
	Outdoor unit		RAV-SM1104ATP-E	RAV-SM1104AT8P-E
Cooling capacity (kW)			9.5 < 3.0 - 11.2 >	9.5 < 3.0 - 11.2 >
Heating capacity (kW)			11.2 < 3.0 - 13.0 >	11.2 < 3.0 - 13.0 >
Power supply			1 phase 220V-240V/50Hz 1phase 220V/60Hz	3 phase 380V-415V/50Hz 3phase 380V/60Hz
Cooling	Running current (A)		14.70-13.40	4.90-4.48
	Power consumption (kW)		3.03	3.03
	Power factor (%)		94	94
	EER		3.14	3.14
Heating	Running current (A)		14.46 - 13.25	4.83-4.44
	Power consumption (kW)		2.99	2.99
	Power factor (%)		94	94
	COP		3.75	3.75
Maximum current (A)			22.8	14.1
Indoor unit				
Appearance	Main unit		Zinc hot dipping steel plate	Zinc hot dipping steel plate
Outer dimension	Main unit	Height (mm)	210	210
		Width (mm)	845	845
		Depth (mm)	645	645
Total weight	Main unit (kg)		22	22
Fan unit	Fan		Centrifugal fan	Centrifugal fan
	Air flow	H/M/L (m3/h)	780/678/582	780/678/582
	Motor (W)		60	60
External static pressure	Standard (Upper - Lower) (Pa)		4 (24 - 0)	4 (24 - 0)
Air filter			Long life filter	Long life filter
Sound pressure level		H/M/L (dB)	45/40/36	45/40/36
Sound power level		H/M/L (dB)	60/55/51	60/55/51
Connecting pipe drain port			VP25	VP25
Outdoor unit				
Air Flow (m3/h)			4,080	4,080
Outer dimension	Height (mm)		890	890
	Width (mm)		900	900
	Depth (mm)		320	320
Total weight	Main unit (kg)		68	68
Pipe	Min. length (m)		5	5
	Max. total length (m)		50	50
Flare Connections	Main	Gas (mm)	15.9	15.9
		Liquid (mm)	9.5	9.5
	Branch	Gas (mm)	12.7	12.7
		Liquid (mm)	6.4	6.4
Sound pressure level	Cooling/Heating (dB)		54/57	55/57
Sound power level	Cooling/Heating (dB)		70/74	70/74
Operating Range	Cooling (°C)		-15/46	-15/46
	Heating (°C)		-15/15	-15/15

14. Preliminary Specifications Ducted Twin System (subject to change)

Model	Indoor unit 1		RAV-RM561BTP-E	RAV-RM801BTP-E	RAV-RM561BTP-E	RAV-RM801BTP-E
	Indoor unit 2		RAV-RM561BTP-E	RAV-RM801BTP-E	RAV-RM561BTP-E	RAV-RM801BTP-E
	Outdoor unit		RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E
Cooling capacity			(kW) 9.5 < 3.0 - 11.2 >	12.1 < 3.0 - 13.2 >	9.5 < 3.0 - 11.2 >	12.1 < 3.0 - 13.2 >
Heating capacity			(kW) 11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >	11.2 < 3.0 - 13.0 >	13.0 < 3.0 - 16.0 >
Power supply			1 phase 220V-240V/50Hz 1phase 220V/60Hz		3 phase 380V-415V/50Hz 3phase 380V/60Hz	
Cooling	Running current (A)		14.5-13.2	21.37 - 19.59	15.18 - 13.92	7.15-6.55
	Power consumption (kW)		2.99	4.42	2.99	4.42
	Power factor (%)		94	94	94	94
	EER		3.18	2.74	3.18	2.74
Heating	Running current (A)		14.5-13.3	17.40-15.90	14.46 - 13.25	5.80-5.30
	Power consumption (kW)		2.99	3.60	2.99	3.60
	Power factor (%)		94	94	94	94
	COP		3.75	3.61	3.75	3.61
Maximum current (A)			22.8	22.8	14.1	14.1
Indoor unit						
Appearance	Main unit		Zinc hot dipping steel plate		Zinc hot dipping steel plate	
Outer dimension	Main unit	Height (mm)	275		275	
		Width (mm)	700	1,000	700	1,000
		Depth (mm)	750		750	
Total weight	Main unit		23	30	23	30
Fan unit	Fan		Centrifugal fan		Centrifugal fan	
	Air flow H/M/L (m3/h)		800/630/480	1200/930/720	800/630/480	1200/930/720
	Motor (W)		150		150	
External static pressure	Standard (Upper - Lower) (Pa)		30 (120 - 30)		30 (120 - 30)	
Air filter			Long life filter		Long life filter	
Sound pressure level		H/M/L (dB)	33/29/25	34/30/26	33/29/25	34/30/26
Sound power level		H/M/L (dB)	48/44/40	49/45/41	48/44/40	49/45/41
Connecting pipe drain port			VP25		VP25	
Outdoor unit						
Air Flow (m3/h)			4,080	4,200	4,080	4,200
Outer dimension	Height (mm)		890		890	
	Width (mm)		900		900	
	Depth (mm)		320		320	
Total weight	Main unit (kg)		68		68	
Pipe	Min. length (m)		5		5	
	Max. total length (m)		50		50	
Flare Connections	Main	Gas (mm)	15.9		15.9	
		Liquid (mm)	9.5		9.5	
	Branch	Gas (mm)	12.7		12.7	
		Liquid (mm)	6.4		6.4	
Sound pressure level	Cooling/Heating (dB)		54/57	55/57	54/57	55/57
Sound power level	Cooling/Heating (dB)		70/74	70/74	70/74	70/74
Operating Range	Cooling (°C)		-15/46		-15/46	
	Heating (°C)		-15/15		-15/15	

15. Specifications for ErP Lot10 (subject to change)

No	Outdoor unit type	Connection type	HP	Indoor unit		Outdoor unit		Rated Capacity (kW)		SEER	Energy Label	Specification		Energy Label	Pdesign _h
				Model name	Qty	Model name	Qty	Cooling	Heating			Pdesign _c	SCOP		
1	DI	Single	1.0	RAV-RM301MUT-E	1	RAV-GM301ATP-E	1	2.5	3.4	5.94	A+	2.5	4.70	A++	2.3
2	DI	Single	1.0	RAV-RM301SDT-E	1	RAV-GM301ATP-E	1	2.5	3.4	6.29	A++	2.5	4.60	A++	2.6
3	DI	Single	1.5	RAV-RM401MUT-E	1	RAV-GM401ATP-E	1	3.6	4.0	5.76	A+	3.6	4.44	A+	2.7
4	DI	Single	1.5	RAV-RM401SDT-E	1	RAV-GM401ATP-E	1	3.6	4.0	5.86	A+	3.6	4.01	A+	2.7
5	DI	Single	1.5	RAV-RM401CTP-E	1	RAV-GM401ATP-E	1	3.6	4.0	6.34	A++	5.0	5.10	A+++	2.7
6	DI	Single	2.0	RAV-RM561UTP-E	1	RAV-GM561ATP-E	1	5.0	5.3	6.34	A++	5.0	4.60	A++	2.8
7	DI	Single	2.0	RAV-RM561MUT-E	1	RAV-GM561ATP-E	1	5.0	5.3	5.69	A+	5.0	4.37	A+	2.8
8	DI	Single	2.0	RAV-RM561BTP-E	1	RAV-GM561ATP-E	1	5.0	5.3	5.28	A	5.0	4.08	A+	2.8
9	DI	Single	2.0	RAV-RM561SDT-E	1	RAV-GM561ATP-E	1	5.0	5.3	5.14	A	5.0	4.16	A+	2.8
10	DI	Single	2.0	RAV-RM561CTP-E	1	RAV-GM561ATP-E	1	5.0	5.3	5.50	A	5.0	4.32	A+	2.8
11	DI	Single	3.0	RAV-RM801UTP-E	1	RAV-GM801ATP-E	1	6.7	7.7	5.81	A+	6.7	4.42	A+	5.1
12	DI	Single	3.0	RAV-RM801BTP-E	1	RAV-GM801ATP-E	1	6.7	7.7	5.20	A	6.7	4.13	A+	5.1
13	DI	Single	3.0	RAV-RM801CTP-E	1	RAV-GM801ATP-E	1	6.9	7.7	5.62	A+	6.9	4.21	A+	5.1
14	DI	Single	4.0	RAV-RM1101UTP-E	1	RAV-GM1101ATP-E	1	9.5	11.2	6.15	A++	9.5	4.28	A+	8.0
15	DI	Single	4.0	RAV-RM1101BTP-E	1	RAV-GM1101ATP-E	1	9.5	11.2	5.28	A	9.5	4.19	A+	7.6
16	DI	Single	4.0	RAV-RM1101CTP-E	1	RAV-GM1101ATP-E	1	9.5	11.2	5.86	A+	9.5	4.27	A+	7.6
17	DI	Single	4.0	RAV-RM1101UTP-E	1	RAV-GM1101AT8P-E	1	9.5	11.2	6.15	A++	9.5	4.28	A+	8.0
18	DI	Single	4.0	RAV-RM1101BTP-E	1	RAV-GM1101AT8P-E	1	9.5	11.2	5.28	A	9.5	4.19	A+	7.6
19	DI	Single	4.0	RAV-RM1101CTP-E	1	RAV-GM1101AT8P-E	1	9.5	11.2	5.86	A+	9.5	4.27	A+	7.6
20	DI	Twin	4.0	RAV-RM561UTP-E	2	RAV-GM1101ATP-E	1	9.5	11.2	5.94	A+	9.5	4.28	A+	8.0
21	DI	Twin	4.0	RAV-RM561MUT-E	2	RAV-GM1101ATP-E	1	9.5	11.2	5.50	A	9.5	4.02	A+	7.4
22	DI	Twin	4.0	RAV-RM561BTP-E	2	RAV-GM1101ATP-E	1	9.5	11.2	5.28	A	9.5	4.22	A+	7.6
23	DI	Twin	4.0	RAV-RM561SDT-E	2	RAV-GM1101ATP-E	1	9.5	11.2	5.32	A	9.5	4.19	A+	7.4
24	DI	Twin	4.0	RAV-RM561CTP-E	2	RAV-GM1101ATP-E	1	9.5	11.2	5.85	A+	9.5	4.28	A+	7.6
25	DI	Twin	4.0	RAV-RM561UTP-E	2	RAV-GM1101AT8P-E	1	9.5	11.2	5.94	A+	9.5	4.28	A+	8.0
26	DI	Twin	4.0	RAV-RM561MUT-E	2	RAV-GM1101AT8P-E	1	9.5	11.2	5.50	A	9.5	4.02	A+	7.4
27	DI	Twin	4.0	RAV-RM561BTP-E	2	RAV-GM1101AT8P-E	1	9.5	11.2	5.28	A	9.5	4.22	A+	7.6
28	DI	Twin	4.0	RAV-RM561SDT-E	2	RAV-GM1101AT8P-E	1	9.5	11.2	5.32	A	9.5	4.19	A+	7.4
29	DI	Twin	4.0	RAV-RM561CTP-E	2	RAV-GM1101AT8P-E	1	9.5	11.2	5.85	A+	9.5	4.28	A+	7.6
30	DI	Single	5.0	RAV-RM1401UTP-E	1	RAV-GM1401ATP-E	1	12.0	13.0	5.71	A+	12.0	4.29	A+	8.0
31	DI	Single	5.0	RAV-RM1401BTP-E	1	RAV-GM1401ATP-E	1	12.1	13.0	5.36	-	12.1	4.19	-	7.6
32	DI	Single	5.0	RAV-RM1401CTP-E	1	RAV-GM1401ATP-E	1	12.1	13.0	5.36	-	12.1	4.19	-	7.6
33	DI	Single	5.0	RAV-RM1401UTP-E	1	RAV-GM1401AT8P-E	1	12.0	13.0	5.71	A+	12.0	4.29	A+	8.0
34	DI	Single	5.0	RAV-RM1401BTP-E	1	RAV-GM1401AT8P-E	1	12.1	13.0	5.36	-	12.1	4.19	-	7.6
35	DI	Single	5.0	RAV-RM1401CTP-E	1	RAV-GM1401AT8P-E	1	12.1	13.0	5.36	-	12.1	4.19	-	7.6
36	DI	Twin	5.0	RAV-RM801UTP-E	2	RAV-GM1401ATP-E	1	12.0	13.0	5.57	A	12.0	4.29	A+	8.0
37	DI	Twin	5.0	RAV-RM801BTP-E	2	RAV-GM1401ATP-E	1	12.1	13.0	5.36	-	12.1	4.21	-	7.6
38	DI	Twin	5.0	RAV-RM801CTP-E	2	RAV-GM1401ATP-E	1	12.1	13.0	5.36	-	12.1	4.19	-	7.6
39	DI	Twin	5.0	RAV-RM801UTP-E	2	RAV-GM1401AT8P-E	1	12.0	13.0	5.57	A	12.0	4.29	A+	8.0
40	DI	Twin	5.0	RAV-RM801BTP-E	2	RAV-GM1401AT8P-E	1	12.1	13.0	5.36	-	12.1	4.21	-	7.6
41	DI	Twin	5.0	RAV-RM801CTP-E	2	RAV-GM1401AT8P-E	1	12.1	13.0	5.36	-	12.1	4.19	-	7.6