

## PRODUCT BULLETIN

### NEW 7 Series Compact Cassette for Light Commercial

- *Model Reference RAV-SM\*\*\*7MUT-E*
- *Optional Wireless remote controller*
- *Optional Occupancy Sensor*

**\*\*\* Updated Retail Prices \*\*\***

**TOSHIBA** are pleased to announce the launch of the all NEW 7 Series Compact Cassette to join the product line-up for the Light Commercial range of Digital Inverter and Super Digital Inverter heat pump split systems.



DIGITAL INVERTER

SUPER  
DIGITAL INVERTER

#### 1. Product Line Up

Models		
Capacity Cooling/Heating	New Model	Retail List Price
2.5/3.4	RAV-SM307MUT-E	£ 847
3.6/3.6	RAV-SM407MUT-E	£ 854
5.6/5.0	RAV-SM567MUT-E	£ 867
Ceiling Panel	New Model	
Common for all models	RBC-UM21PG(W)-E	

#### 2. Availability

- ◆ Anticipated availability Q3 2017 or when current stock is diminished

#### 3. Compatibility

- ◆ Digital Inverter and Super Digital Inverter

#### 4. Features

- ◆ New Design Panel
  - Fits within the T-bar of the ceiling grid: 620mm x 620mm (current model: 700mm x 700mm)
  - Elegant and flat appearance

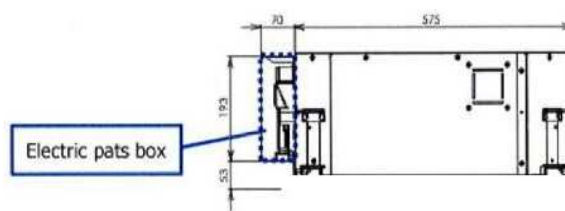
- ◆ Compact and Thin Chassis
    - The height from ceiling: 256mm (12mm shallower than the current model 268mm)
  - ◆ New Functions and Accessories
    - Individual Louver (same function as 4-way cassette MMU-AP\*\*\*4-E models)
    - Airflow: 5 steps
    - Optional Wireless remote controller accessory (\*1)
    - Optional Occupancy Sensor accessory (\*1)(\*2)
- \*1 – wireless remote controller kit and occupancy sensor cannot be used on the same indoor unit  
 \*2 – The function is available only with RBC-AMS54E-ES
- ◆ Compliant with the following European Eco-design regulations
    - ErP-lot 6/21 2018 threshold
    - ErP-lot 30 2018 threshold

## 5. Accessories

Accessories		
Par Number	Description	Retail List Price
RBC-AX32UM(W)-E	Wireless Remote Controller	£ 112
TCB-SIR41UM-E	Occupancy Sensor	£ 65
TCB-FF101URE2	Auxiliary Fresh Air Spigot	£ 41

## 6. Notes

- ◆ New ceiling panel RBC-UM21PG(W)-E and current ceiling panel RBC-UM11PG(W)-E cannot be interchanged between model types due to different attachment methods
- ◆ Condensate drain pump fitted as standard (lift-up height: 850mm max.)
- ◆ The size of the drain piping has changed from VP25 to VP20
- ◆ Factory production for R410A models will commence March 2017.
- ◆ Electric parts box position is changed to the side of the main unit (fig.1)



## 7. Combination Table

		Indoor Unit													
		Single			Twin		Triple			Quad					
		RAV-SM307MUT-E	RAV-SM407MUT-E	RAV-SM567MUT-E	RAV-SM407MUT-E x 2	RAV-SM567MUT-E x 2	RAV-SM307MUT-E x 3	RAV-SM407MUT-E x 3	RAV-SM567MUT-E x 3	RAV-SM307MUT-E x 4	RAV-SM567MUT-E x 4				
Outdoor Unit	RAV-SM304ATP-E	✓													
	RAV-SM404ATP-E		✓												
	RAV-SM564ATP-E			✓											
	RAV-SM1104ATP-E					✓	✓								
	RAV-SM1104AT8P-E					✓	✓								
	RAV-SM1404AT-E							✓			✓				
	RAV-SM1404AT8P-E							✓			✓				
	RAV-SM1603AT-E1								✓						
	RAV-SM2246AT8-E													✓	
	RAV-SP404ATP-E		✓												
	RAV-SP564ATP-E			✓											
	RAV-SP804ATP-E				✓										
	RAV-SP1104AT-E1					✓									
	RAV-SP1104AT8-E1					✓									
	RAV-SP1604AT8-E1								✓						

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](mailto:general.enquiries@toshiba-ac.com)

## Specifications

### DIGITAL INVERTER

Single Split Systems							
Model name	Indoor Unit		RAV-	SM307MUT-E	SM407MUT-E	SM567MUT-E	
	Outdoor Unit		RAV-	SM304ATP-E	SM404ATP-E	SM564ATP-E	
Cooling capacity			kW	2.5	3.6	5.0	
Heating capacity			kW	3.4	4.0	5.3	
Electrical characteristics (factory setting)	Cooling	Indoor Unit	Power supply	V/ph/Hz	230/1/50		
			Running current	A	2.98	4.40	7.93
			Power consumption	kW	0.59	0.90	1.64
			Power factor		90	93	94
			EER		4.24	4.00	3.05
	Heating	Indoor Unit	Power supply	V/ph/Hz	230/1/50		
			Running current	A	3.75	4.64	7.18
			Power consumption	kW	0.76	0.95	1.47
			Power factor		92	93	93
			COP		4.47	4.21	3.61
	Maximum Current	Indoor Unit	starting current	A	7.90	9.20	12.50
	Appearance	Main Unit		Zinc hot dipping steel plate, heat insulating material attached to only your upper plate			
Ceiling Panel Model		RBC-UM21PG(W)-E					
Colour		Gran White (Munsell 5PB9/1)					
Dimension	Height		mm	256			
	Width		mm	575			
	Depth		mm	575			
Dimension (Ceiling Panel)	Height		mm	12			
	Width		mm	620			
	Depth		mm	620			
Weight (Main Unit)			kg	15			
Weight (Ceiling Panel)			kg	2.5			
Heat exchanger				Finned Tube			
Fan unit	Fan			Turbo Fan			
	Standard air flow		m3/h	640	660	798	
	Motor output		kW	60			
Air filter				Standard Filter (long Life Filter)			
Drain Port				VP20 (Polyvinyl chloride tube)			
Sound pressure level High (Med +/-Med/Low +/-Low)			dB(A)	38 (37/36/31/30)	41 (38/36/33/32)	44 (42/39/36/35)	
Sound power level High (Med +/-Med/Low +/-Low)			dB(A)	53 (52/51/46/45)	56 (53/51/48/47)	59 (57/54/51/50)	
Outdoor Unit							
Refrigerant Type/Weight				R410A/0.8	R410A/1.4	R410A/1.1	
Outer Dimension		HxWxD	mm	550x780x290			
Weight			kg	33	39	40	
Sound Pressure Level		Cooling/Heating	dB(A)	46/47	49/50	46/48	
Sound Power Level		Cooling/Heating	dB(A)	61/62	64/65	63/65	
Pipe Connections	Gas/Liquid		inch	3/8 - 1/4	1/2 - 1/4		
	Min Length		m	2		5	
	Max Length		m	20		30	
	Chargeless		m	15		20	
	Max Height Difference		m	10		30	
Operation Range	Cooling		°C	-15 to 46			
	Heating		°C	-15 to 24	-15 to 15		

Twin, Triple and Split Systems										
Model name	Indoor Unit 1			RAV-	SM567MUT-E	SM567MUT-E	SM307MUT-E	SM307MUT-E	SM407MUT-E	
	Indoor Unit 2			RAV-	SM567MUT-E	SM567MUT-E	SM307MUT-E	SM307MUT-E	SM407MUT-E	
	Indoor Unit 3			RAV-	-	-	SM307MUT-E	SM307MUT-E	SM407MUT-E	
	Indoor Unit 4			RAV-	-	-	-	-	-	
	Outdoor Unit			RAV-	SM1104ATP-E	SM1104AT8P-E	SM1104ATP-E	SM1104AT8P-E	SM1404AT-E	
Cooling capacity				kW	10.0	10.0	10.0	10.0	12.0	
Heating capacity				kW	11.2	11.2	11.2	11.2	12.8	
Electrical characteristics (factory setting)	Cooling	Indoor Unit	Power supply	V/ph/Hz	230/1/50	415/3/50	230/1/50	415/3/50	230/1/50	
			Running current	A	15.23	-	-	-	-	
			Power consumption	kW	3.15	3.16	3.16	3.16	4.29	
			Power factor		94	-	-	-	-	
			EER		3.17	3.16	3.16	3.16	2.80	
	Heating	Indoor Unit	Power supply	V/ph/Hz	230/1/50	415/3/50	230/1/50	415/3/50	230/1/50	
			Running current	A	15.44	-	-	-	-	
			Power consumption	kW	3.26	2.99	2.99	2.99	3.40	
			Power factor		96	-	-	-	-	
			COP		3.44	3.75	3.75	3.75	3.76	
	Maximum Current	Indoor Unit	starting current	A	20.70	-	-	-	-	
	Appearance			Main Unit	Zinc hot dipping steel plate, heat insulating material attached to only your upper plate					
				Ceiling Panel Model	RBC-UM21PG(W)-E					
			Colour	Gran White (Munsell 5PB9/1)						
Dimension			Height	mm	256					
			Width	mm	575					
			Depth	mm	575					
Dimension (Ceiling Panel)			Height	mm	12					
			Width	mm	620					
			Depth	mm	620					
Weight (Main Unit)				kg	15					
Weight (Ceiling Panel)				kg	2.5					
Heat exchanger					Finned Tube					
Fan unit			Fan	Turbo Fan						
			Standard air flow	m3/h	798					
			Motor output	kW	60					
Air filter					Standard Filter (long Life Filter)					
Drain Port					VP20 (Polyvinyl chloride tube)					
Sound pressure level High (Med +/-Med/Low +/-Low)				dB(A)	44 (42/39/36/35)					
Sound power level High (Med +/-Med/Low +/-Low)				dB(A)	59 (57/54/51/50)					
Outdoor Unit										
Refrigerant Type/Weight					R410A/2.8	R410a/3.1	R410a/2.8	R410A/3.1	R410A/2.8	
Outer Dimension		HxWxD	mm	890x900x320	890x900x320	890x900x320	890x900x320	890x900x320		
Weight				kg	68	68	68	68	68	
Sound Pressure Level		Cooling/Heating	dB(A)	53/54	53/54	53/54	53/54	54/55		
Sound Power Level		Cooling/Heating	dB(A)	70/71	70/71	70/71	70/71	70/71		
Pipe Connections			Outdoor to First Branch	inch	5/8 - 3/8					
			First Branch to Second	inch	1/2 - 1/4					
			Second Branch to Indoor	inch	-					
			Min Length	m	5					
			Max Length	m	50					
			Chargeless	m	30					
			Max Height Difference	m	30					
Operation Range			Cooling	°C	-15 to 46					
			Heating	°C	-15 to 15					

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### Triple and Quad Split Systems

Model name				Indoor Unit 1	RAV-	SM407MUT-E	SM307MUT-E	SM307MUT-E	SM567MUT-E
				Indoor Unit 2	RAV-	SM407MUT-E	SM307MUT-E	SM307MUT-E	SM567MUT-E
				Indoor Unit 3	RAV-	SM407MUT-E	SM307MUT-E	SM307MUT-E	SM567MUT-E
				Indoor Unit 4	RAV-	-	SM307MUT-E	SM307MUT-E	SM567MUT-E
				Outdoor Unit	RAV-	SM1404AT8P-E	SM1404AT8P-E	SM1404ATP-E	SM2246AT8-E
Cooling capacity				kW		12.0	12.0	12.0	20.0
Heating capacity				kW		12.8	12.8	12.8	22.4
Electrical characteristics (factory setting)	Cooling	Indoor Unit	Power supply	V/ph/Hz	415/3/50	415/3/50	230/1/50	415/3/50	
			Running current	A	-	-	-	10.26	
			Power consumption	kW	4.29	4.29	4.29	6.35	
			Power factor		-	-	-	94	
			EER		2.80	2.80	2.80	3.15	
	Heating	Indoor Unit	Power supply	V/ph/Hz	415/3/50	415/3/50	230/1/50	415/3/50	
			Running current	A	-	-	-	10.20	
			Power consumption	kW	3.40	3.40	3.40	6.31	
			Power factor		-	-	-	94	
			COP		3.76	3.76	3.76	3.55	
	Maximum Current	Indoor Unit	starting current	A	-	-	-	18.00	
	Appearance			Main Unit	Zinc hot dipping steel plate, heat insulating material attached to only your upper				
				Ceiling Panel Model	RBC-UM21PG(W)-E				
Colour				Gran White (Munsell 5PB9/1)					
Dimension			Height	mm	256				
			Width	mm	575				
			Depth	mm	575				
Dimension (Ceiling Panel)			Height	mm	12				
			Width	mm	620				
			Depth	mm	620				
Weight (Main Unit)				kg	15				
Weight (Ceiling Panel)				kg	2.5				
Heat exchanger					Finned Tube				
Fan unit			Fan	Turbo Fan					
			Standard air flow	m3/h	798				
			Motor output	kW	60				
Air filter					Standard Filter (long Life Filter)				
Drain Port					VP20 (Polyvinyl chloride tube)				
Sound pressure level High (Med +/-Med/Low +/-Low)				dB(A)	44 (42/39/36/35)				
Sound power level High (Med +/-Med/Low +/-Low)				dB(A)	59 (57/54/51/50)				
Outdoor Unit									
Refrigerant Type/Weight					R410a/3.1	R410a/3.1	R410A/2.8	R410A/5.9	
Outer Dimension			HxWxD	mm	890x900x320	890x900x320	890x900x320	1550x1010x370	
Weight				kg	68	68	68	142	
Sound Pressure Level			Cooling/Heating	dB(A)	54/55	54/55	54/55	58/60	
Sound Power Level			Cooling/Heating	dB(A)	70/71	70/71	70/71	76/76	
Pipe Connections			Outdoor to First Branch	inch	5/8 - 3/8			1 1/8 - 1/2	
			First Branch to Second	inch	1/2 - 1/4			5/8 - 3/8	
			Second Branch to Indoor	inch	-			1/2 - 1/4	
			Min Length	m	5				
			Max Length	m	50			100	
			Chargeless	m	30				
Operation Range			Cooling	°C	-15 to 46			-15 to 52	
			Heating	°C	-15 to 15			-27 to 15	

## SUPER DIGITAL INVERTER

Single Split Systems						
Model name	Indoor Unit		RAV-	SM407MUT-E	SM567MUT-E	
	Outdoor Unit		RAV-	SP404ATP-E	SP564ATP-E	
Cooling capacity			(kW)	3.6	5.0	
Heating capacity			kW	4.0	5.6	
Electrical characteristics (factory setting)	Cooling	Indoor Unit	Power supply	V/ph/Hz	230/1/50	
			Running current	A	4.69	7.26
			Power consumption	kW	0.95	1.55
			Power factor		92	97
			EER		3.79	3.23
	Heating	Indoor Unit	Power supply	V/ph/Hz	230/1/50	
			Running current	A	4.74	7.17
			Power consumption	kW	0.96	1.53
			Power factor		92	97
			COP		4.17	3.66
Maximum Current	Indoor Unit	starting current	A	15.0	13.6	
Appearance	Main Unit		Zinc hot dipping steel plate, heat insulating material attached to only your upper plate			
	Ceiling Panel Model		RBC-UM21PG(W)-E			
	Colour		Gran White (Munsell 5PB9/1)			
Dimension	Height		mm	256		
	Width		mm	575		
	Depth		mm	575		
Dimension (Ceiling Panel)	Height		mm	12		
	Width		mm	620		
	Depth		mm	620		
Weight (Main Unit)			kg	15		
Weight (Ceiling Panel)			kg	2.5		
Heat exchanger			Finned Tube			
Fan unit	Fan		Turbo Fan			
	Standard air flow		m3/h	660	798	
	Motor output		kW	60		
Air filter			Standard Filter (long Life Filter)			
Drain Port			VP20 (Polyvinyl chloride tube)			
Sound pressure level High (Med +/-Med/Low +/-Low)			dB(A)	41 (38/36/33/32)	44 (42/39/36/35)	
Sound power level High (Med +/-Med/Low +/-Low)			dB(A)	56 (53/51/48/47)	59 (57/54/51/50)	
Outdoor Unit			R410A/1.0		R410A/1.4	
Outer Dimension	HxWxD	mm	550x780x290			
Weight			kg	40	44	
Sound Pressure Level	Cooling/Heating	dB(A)	45/47		47/48	
Sound Power Level	Cooling/Heating	dB(A)	62/64		63/64	
Pipe Connections	Gas/Liquid	inch	1/2 - 1/4			
	Min Length	m	5			
	Max Length	m	30			
	Chargeless	m	20			
	Max Height Difference	m	30			
Operation Range	Cooling	°C	-15 to 43			
	Heating	°C	-15 to 15		-20 to 15	

Twin, Triple and Quad Split Systems								
Model name	Indoor Unit 1		RAV-	SM407MUT-E	SM567MUT-E	SM567MUT-E	SM567MUT-E	
	Indoor Unit 2		RAV-	SM407MUT-E	SM567MUT-E	SM567MUT-E	SM567MUT-E	
	Indoor Unit 3		RAV-	-	-	-	SM567MUT-E	
	Outdoor Unit		RAV-	SP804ATP-E	SP1104AT-E1	SP1104AT8-E1	SP1604AT8-E1	
Cooling capacity			kW	7.1	10.0	10.0	14.0	
Heating capacity			kW	8.0	11.2	11.2	16.0	
Electrical characteristics (factory setting)	Cooling	Indoor Unit	Power supply	V/ph/Hz	230/1/50		415/3/50	
			Running current	A	9.48	12.59	4.93	8.39
			Power consumption	kW	1.94	2.66	2.66	4.97
			Power factor		93	96	82	90
			EER		3.66	3.76	3.76	2.82
	Heating	Indoor Unit	Power supply	V/ph/Hz	230/1/50		415/3/50	
			Running current	A	10.22	14.25	5.44	7.75
			Power consumption	kW	2.09	3.01	3.01	4.59
			Power factor		93	96	84	90
			COP		3.83	3.72	3.72	3.49
	Maximum Current	Indoor Unit	starting current	A	20.80	21.05	14.90	15.40
	Appearance			Main Unit				Zinc hot dipping steel plate, heat insulating material attached to only your upper plate
			Ceiling Panel Model				RBC-UM21PG(W)-E	
			Colour				Gran White (Munsell 5PB9/1)	
Dimension			Height	mm	256			
			Width	mm	575			
			Depth	mm	575			
Dimension (Ceiling Panel)			Height	mm	12			
			Width	mm	620			
			Depth	mm	620			
Weight (Main Unit)			kg	15				
Weight (Ceiling Panel)			kg	2.5				
Heat exchanger							Finned Tube	
Fan unit			Fan				Turbo Fan	
			Standard air flow	m3/h	660	798		
			Motor output	kW	60			
Air filter							Standard Filter (long Life Filter)	
Drain Port							VP20 (Polyvinyl chloride tube)	
Sound pressure level High (Med +/-Med/Low +/-Low)			dB(A)	41 (38/36/33/32)	44 (42/39/36/35)			
Sound power level High (Med +/-Med/Low +/-Low)			dB(A)	56 (53/51/48/47)	59 (57/54/51/50)			
Outdoor Unit								
Refrigerant Type/Weight			R410A/2.1		R410A/3.1			
Outer Dimension			HxWxD	mm	890x900x320	1340x900x320		
Weight			kg	66	93	95		
Sound Pressure Level			Cooling/Heating	dB(A)	48/49	49/50	51/53	
Sound Power Level			Cooling/Heating	dB(A)	64/65	66/67	68/70	
Pipe Connections			Outdoor to First Branch Gas/Liquid	inch	5/8 - 3/8			
			First Branch to Second Branch Gas/Liquid	inch	1/2 - 1/4			
			Min Length	m	5	3		
			Max Length	m	50			
			Chargeless	m	20	30		
			Max Height Difference	m	30			
Operation Range			Cooling	°C	-15 to 43		-15 to 46	
			Heating	°C	-20 to 15			