

# **TOSHIBA**

**AIR CONDITIONING**



Inventor of the Inverter  
**Digital Inverter System**

# Inventor of the Inverter



The Digital inverter from Toshiba combines economy and ecology in a smart body. It offers state-of-the-art technology, exceptional energy savings, high performance, easy installation and flexible control. The latest digital inverter technology ensures smooth start-up and capacity control for optimum comfort. A choice of indoor units includes Hi-Wall, Cassette, Ducted, Under Ceiling, Console and Under Ceiling units.

Hi-Wall



Ducted



Console/Under Ceiling



Cassette



Under Ceiling



## Solutions from professionals for professionals

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Toshiba Digital Inverter air conditioners combine exceptional energy savings and operational features in an extremely compact unit. With state-of-the-art technologies, non-ozone depleting R410a refrigerant, flexible control options and improved installation facility, it brings comfort and convenience to many types of commercial and residential installations.

Complete with a comprehensive range of indoor units to satisfy most residential and light commercial applications, the Digital Inverter represents a highly sought after, clever solution based approach to air conditioning.

### New Compact Design Out Door Unit

45% Smaller  
23% Lighter

0.229m<sup>3</sup>  
55kg



Previous Model

0.124m<sup>3</sup>  
42kg



New Model  
RAV-SM802AT-E

### New Compact Design Out Door Unit

48% Smaller  
9% Lighter

0.386m<sup>3</sup>  
85kg



Previous Model

0.198m<sup>3</sup>  
77kg



New Model  
RAV-SM1401AT-E  
RAV-SM1101AT-E

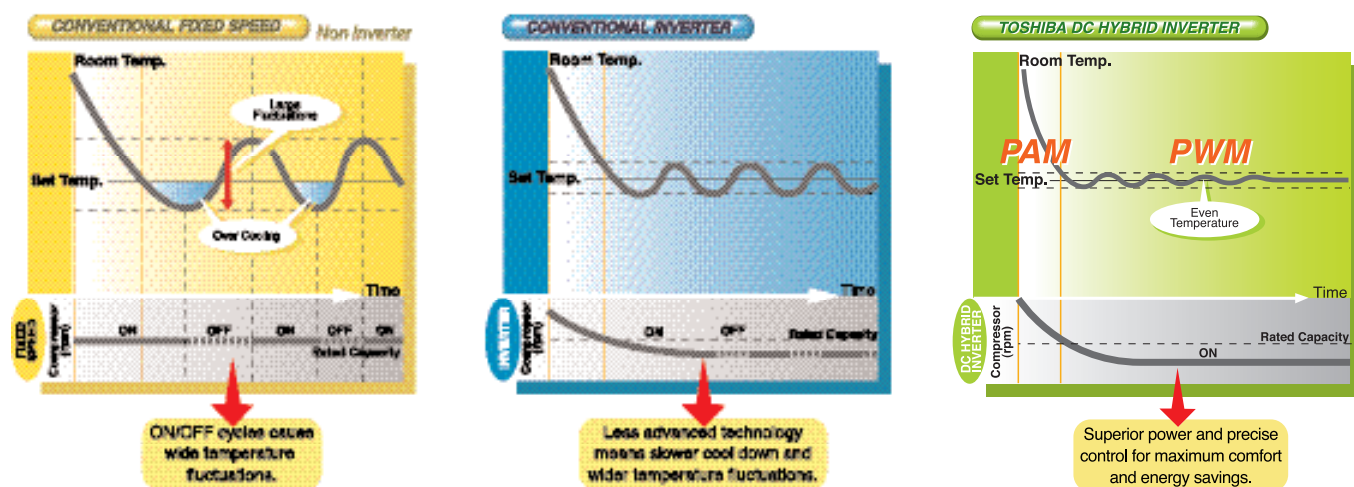
# Optimum Comfort and Energy savings

## Inverter air conditioners for residential, offices, shops and restaurants

The digital inverter maintains precise room temperature control and creates a comfortable environment, as shown in the diagrams below.

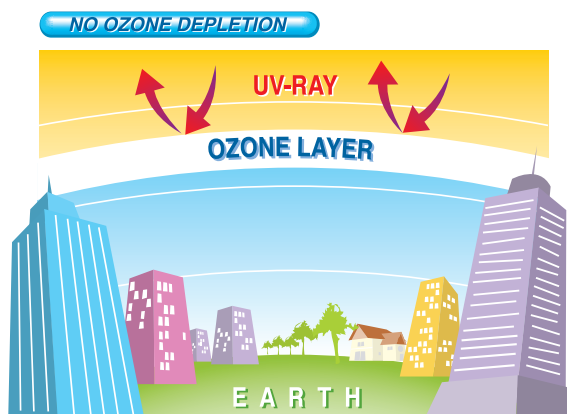
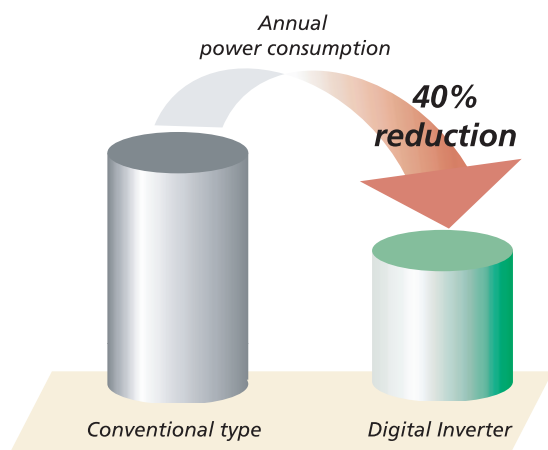
In conventional units, the compressor switches off once the set temperature is reached, and on again after the temperature drops. During the time it takes for the unit to switch on and off the room temperature fluctuates greatly.

With the digital inverter compressor, power reduces as the desired room temperature approaches, and operation continues at a reduced state to maintain your set room temperature with minimal fluctuations, resulting in significantly lower noise levels, and running cost savings.



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## Efficient energy use



## R-410A Refrigerant - Energy Efficient

The Toshiba range of products includes a wide choice of units that operate on the R-410A refrigerant. R-410A is a non-ozone depleting refrigerant that meets the strict requirements of the Montreal Protocol. This protocol required a move away from ozone depleting refrigerants to those, which have a Zero Ozone Depletion Potential, or ODP as it is referred to within the Air Conditioning industry.

R-410A is a higher efficiency refrigerant than others on the market. In fact, R-410A is up to 12% more efficient than R-407C, and up to 16% more efficient than Freon R-22.



## Hi-Wall Systems

Compact and stylish

### Model numbers

RAV-SM562KRT-E  
RAV-SM802KRT-E



(included)



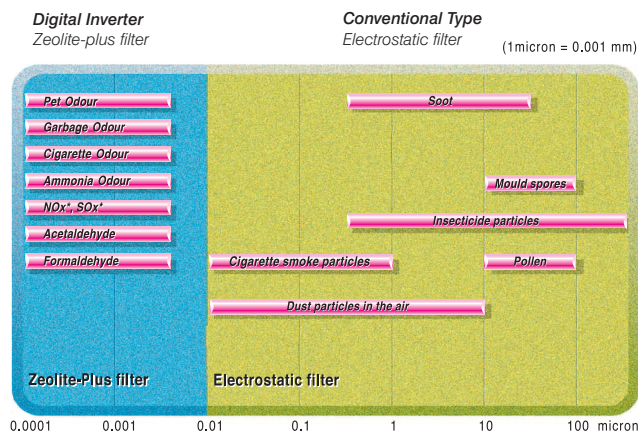
RAV-SM562AT-E  
RAV-SM802AT-E

## Enhanced Appearance

With its rounded shape and slim body, the compact and stylish design blends in with many room setting without interfering with the interior aesthetics of the room.

## Triple filters for cleaner air

Air quality is greatly improved with a triple filter system. A washable filter first removes large solid particles and dust from the air. The passive electrostatic filter then entraps solid particles. Finally, Toshiba's patented Zeolite-Plus filter captures airborne pollutants as small as 0.0001 microns and smoke odours.



Note : \*A compound of Nitrogen and Oxygen.  
\*A compound of Sulphur and Oxygen.

## Auto louvre

The auto 5 position mode assures even distribution of the air throughout the entire room.

Comfort Features:

- Super Quiet - Indoor Unit 33dB
- Wired controller option
- Will operate at -15°C for heating
- Repeat timer will memorise settings



## Specifications

Model - (Indoor)	RAV-SM562KRT-E	RAV-SM802KRT-E
Model - (Outdoor)	RAV-SM562AT-E	RAV-SM802AT-E
Power Supply	240/1/50	240/1/50
Cooling Capacity - Rated(Range)	5.00(1.50 ~ 5.60)	6.70(2.20 ~ 8.00)
COP - Rated(Range)	2.93(3.75 ~ 3.01)	2.46(4.40 ~ 2.81)
Heating Capacity - Rated(Range)	5.60(1.50 ~ 6.30)	8.00(2.20 ~ 9.00)
COP - Rated(Range)	3.29(3.75 ~ 2.63)	3.00(4.00 ~ 2.60)
Power Consumption - Rated(Range) (Cooling)	1.74(0.40 ~ 1.86)	2.72(0.50 ~ 2.85)
- Rated(Range) (Heating)	1.70(0.40 ~ 2.40)	2.67(0.55 ~ 3.46)
Operating Current - Rated(Range) (Cooling)	7.63(2.38 ~ 8.16)	12.06(2.98 ~ 12.63)
- Rated(Range) (Heating)	7.46(2.38 ~ 10.53)	11.84(3.27 ~ 15.11)
<b>Indoor Unit</b>		
Dimension (HxWxD)	298 x 998 x 208	298 x 998 x 208
Net weight	12	12
Airflow Volume (Cooling)	233	308
Moisture Removal	1.60	4.00
Operating Noise (H/M/L), (H/M+/M/L+/L) (Sound Pressure)	39/36/33	43/41/36
<b>Outdoor Unit</b>		
Dimension (HxWxD)	550 x 780 x 290	550 x 780 x 290
Net weight	38	42
Operating Noise (C/H) (Sound Pressure)	46/48	48/50
<b>Pipe Size</b>		
Liquid Side	6.35(1/4")	9.52(3/8")
Gas Side	12.70(1/2")	15.90(5/8")
Coupler Style	Flare	Flare
Drain	16.30	16.30
Max. Piping Length	30	30
Chargeless Length	20	20
Max. Piping Height	30	30
Usable Outdoor Temp	(Cooling, °C)/(Heating, °C)	(Cooling, °C)/(Heating, °C)
	-5~43/-15~15	-5~43/-15~15

## Cassette System

Flexible, elegant styling

### Model numbers

RAV-SM560UT-E  
RAV-SM802UT-E  
RAV-SM1100UT-E  
RAV-SM1402UT-E



(Refer to page 9  
for control options)



RAV-SM562AT-E  
RAV-SM802AT-E



RAV-SM1101AT-E  
RAV-SM1401AT-E

## Cleaner Healthier ceiling

Innovative air flow control and new panel design prevents dust from accumulating around the air outlets on the ceiling, and this means that your ceiling will stay cleaner for longer.

## Clean design

Both the flap and the grille are easily detachable and washable.

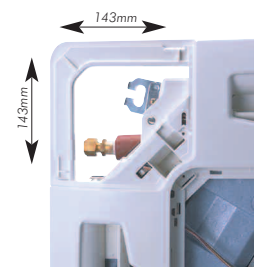
## Other features

- Four-way adjustable grille direction
- High-lift drain pump (850mm)
- Lightweight design
- Remote or wired control options
- Easy installation and maintenance
- Very quiet operation



## Corner pockets

Corner pockets in all four panel corners permit easy installation and height adjustments. The opening is the largest in the industry and allows convenient access to the adjustment controls behind the panel.



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## Simple installation

The control box is easily removed by simply loosening two screws on the panel. All electrical parts and connections are simplified for easy access that leads to reduced installation costs.

## Specifications

Model	RAV-SM560UT-E	RAV-SM802UT-E	RAV-SM1102UT-E	RAV-SM1401UT-E
- (Indoor)				
- (Outdoor)				
Power Supply	240/1/50	240/1/50	240/1/50	240/1/50
Cooling Capacity - Rated(Range)	5.30(1.50 ~ 5.60)	7.10(2.20 ~ 8.00)	10.00(2.20 ~ 11.20)	12.30(3.00 ~ 13.20)
COP	3.01(4.29 ~ 3.01)	3.03(4.89 ~ 3.08)	2.84(3.67 ~ 2.73)	3.01(4.62 ~ 2.93)
Heating Capacity - Rated(Range)	5.60(1.50 ~ 6.30)	8.00(2.20 ~ 9.00)	11.20(2.20 ~ 13.00)	14.00(3.00 ~ 16.00)
COP	3.90(4.28 ~ 3.03)	3.45(4.89 ~ 2.97)	3.22(3.67 ~ 3.02)	3.5(4.62 ~ 3.56)
Power Input - Rated(Range) (Cooling)	1.76(0.35 ~ 1.86)	2.34(0.45 ~ 2.60)	3.52(0.60 ~ 4.10)	4.09(0.65 ~ 4.50)
- Rated(Range) (Heating)	1.44(0.35 ~ 2.08)	2.32(0.45 ~ 3.03)	3.48(0.60 ~ 4.30)	4.00(0.65 ~ 4.50)
Operating Current - Rated(Range) (Cooling)	7.72(2.08 ~ 8.16)	10.37(2.68 ~ 11.40)	15.00(3.57 ~ 17.43)	17.60(3.87 ~ 19.33)
- Rated(Range) (Heating)	6.29(2.08 ~ 9.12)	10.28(2.68 ~ 13.29)	14.80(3.57 ~ 18.28)	17.20(3.87 ~ 19.33)
<b>Indoor Unit</b>				
Dimension (HxWxD)	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
Net Weight	21	22	22	26
Airflow Volume	292/232/202	333/262/227	367/317/267	517/417/333
Operating Noise (Sound Pressure)(H/L)	32/29/27	34/31/28	39/36/33	42/38/34
<b>Outdoor Unit</b>				
Dimension (HxWxD)	550 x 780 x 290	550 x 780 x 290	795 x 780 x 320	795 x 780 x 320
Net Weight	38	42	75	85
Operating Noise (Sound Pressure)(H/L)	48/46	50/48	53/54	53/54
<b>Pipe Size</b>				
Liquid Side	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")
Gas Side	12.70(1/2")	15.90(5/8")	15.90(5/8")	15.90(5/8")
Coupler Style	Flare	Flare	Flare	Flare
Drain	15	15	15	15
Max. Piping Length	30	50	50	50
Chargeless Length	20	20	20	20
Max. Piping Height	30	30	30	30
Usable Outdoor Temp (Cooling, °C)/(Heating, °C)	-5~43/-15~15	-5~43/-15~15	-5~43/-15~15	-5~43/-15~15

## Ducted Systems

Smart and Versatile

### Model numbers

RAV-SM561BT-E  
RAV-SM801BT-E  
RAV-SM1101BT-E  
RAV-SM1401BT-E



(Refer to page 9  
for control options)



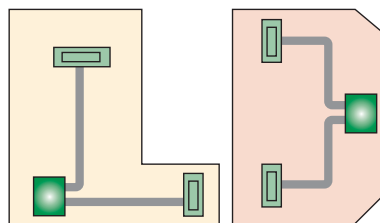
RAV-SM562AT-E  
RAV-SM802AT-E



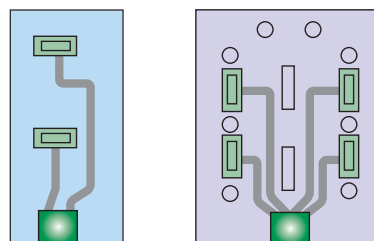
RAV-SM1101AT-E  
RAV-SM1401AT-E

## Wide range of applications

The use of air ducts allows air outlets to be conveniently installed in the ceiling, eliminating the conspicuous presence of the air conditioner in the room. Not only can this be applied to a wide variety of layouts from narrow spaces to polygonal rooms, but it greatly improves the aesthetics of a room, with its calm presence.



*Polygonal rooms*



*Narrow rooms   Rooms with fixtures  
and obstacles*

## Features

- The super quiet indoor unit at 33~44dB allows you to enjoy your home or office environment without distraction
- The flexible condensate piping layout is made possible by a built in drain pump that raises drain piping up to 300mm.
- Only single phase power required, therefore installation cost may be reduced
- Hi-Energy Saving due to digital inverter technology
- Digital Hybrid Technology for greater comfort control.

## Specifications

Model - (Indoor)	RAV-SM561BT-E	RAV-SM801BT-E	RAV-SM1101BT-E	RAV-SM1401BT-E
Model - (Outdoor)	RAV-SM562AT-E	RAV-SM802AT-E	RAV-SM1101AT-E	RAV-SM1401AT-E
Power Supply (V/ph/Hz)	240/1/50	240/1/50	240/1/50	240/1/50
Cooling Capacity - Rated(Range) (kW)	5.00(1.50 ~ 5.60)	7.10(2.20 ~ 8.00)	10.00(2.20 ~ 11.20)	12.50(3.00 ~ 13.20)
COP	2.81(3.33 ~ 2.87)	2.81(4.40 ~ 2.90)	2.81(3.67 ~ 2.49)	2.83(4.62 ~ 2.72)
Heating Capacity - Rated(Range) (kW)	5.60(1.50 ~ 6.30)	8.00(2.20 ~ 9.00)	11.20(2.20 ~ 13.00)	14.00(3.00 ~ 16.00)
COP	3.27(3.33 ~ 2.55)	3.32(4.40 ~ 2.83)	3.57(3.67 ~ 3.13)	3.47(4.62 ~ 3.52)
Power Input - Rated(Range) (Cooling) (kW)	1.78(0.45 ~ 1.95)	2.53(0.50 ~ 2.76)	3.56(0.60 ~ 4.50)	4.42(0.65 ~ 4.85)
Power Input - Rated(Range) (Heating) (kW)	1.71(0.45 ~ 2.47)	2.41(0.50 ~ 3.18)	3.14(0.60 ~ 4.00)	4.03(0.65 ~ 4.55)
Operating Current - Rated(Range) (Cooling) (A)	8.24(2.68 ~ 9.03)	11.21(2.98 ~ 12.23)	15.10(3.57 ~ 19.13)	19.00(3.87 ~ 20.83)
Operating Current - Rated(Range) (Heating) (A)	7.50(2.68 ~ 10.83)	10.68(2.98 ~ 14.10)	13.35(3.57 ~ 17.01)	17.30(3.87 ~ 19.54)
<b>Indoor Unit</b>				
Dimension (HxWxD) (mm)	320 x 700 x 800	320 x 1000 x 800	320 x 1350 x 800	320 x 1350 x 800
Net Weight (kg)	30	39	51	51
Airflow Volume (L/s)	217/198/163	317/270/222	450/383/315	550/467/385
Operating Noise (Sound Pressure) (H/L) (dB)	40/37/33	40/37/34	42/39/36	44/41/38
<b>Outdoor Unit</b>				
Dimension (HxWxD) (mm)	595 x 780 x 270	595 x 780 x 270	795 x 780 x 320	795 x 780 x 320
Net Weight (kg)	38	42	75	85
Operating Noise (Sound Pressure) (H/L) (dB)	48/46	50/48	53/54	53/54
<b>Pipe Size</b>				
Liquid Side (mm/inch)	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")
Gas Side (mm/inch)	12.70(1/2")	15.90(5/8")	15.90(5/8")	15.90(5/8")
Coupler Style	Flare	Flare	Flare	Flare
Drain (mm/inch)	15	15	15	15
Max. Piping Length (m)	30	50	50	50
Chargeless Length (m)	20	20	20	20
Max. Piping Height (m)	30	30	30	30
Usable Outdoor Temp (Cooling, °C)/(Heating, °C)	-5~43/-15~15	-5~43/-15~15	-5~43/-15~15	-5~43/-15~15



## Under Ceiling Systems

Quiet and comfortable

### Model numbers

RAV-SM561CT-E  
RAV-SM801CT-E  
RAV-SM1102CT-E  
RAV-SM1402CT-E



(Refer to page 9  
for control options)



RAV-SM562AT-E  
RAV-SM802AT-E



RAV-SM1101AT-E  
RAV-SM1401AT-E

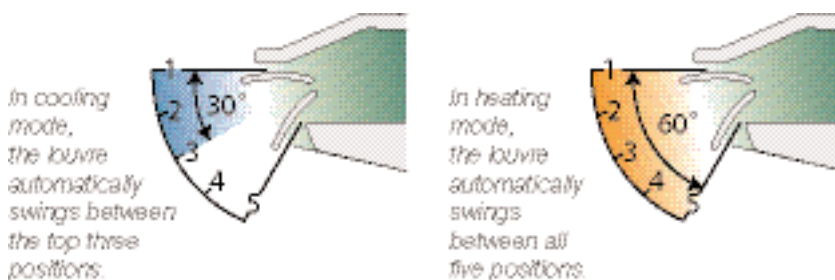
## Comfortable ambience

### Extremely quiet

A new design is adopted to greatly reduce noise level to half that of conventional units. Producing whisper-quiet levels of operation.

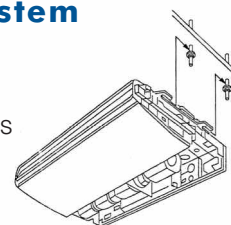
### Louvre control

Airflow angle is automatically set to the most suitable setting according to your cooling or heating needs, and an automatic swing mode enables air-flow to reach all areas of the room and create a comfortable ambience.



### Fully redesigned ceiling-mount system

Simply remove two screws to prepare for installation. Mounting is simple and there's no need for direct mounting of the unit. No need to remove many screws in preparation, so installation is much easier, faster and more cost effective.



### Installation efficiency

Suspending the unit from the ceiling saves the trouble of complex installation procedures. It can be suspended simply by adjusting two screws on the intake grille. Installation is further simplified compared to conventional units which involve up to a dozen screws.

## Specifications

Model - (Indoor) - (Outdoor)	RAV-SM561CT-E RAV-SM562AT-E	RAV-SM801CT-E RAV-SM802AT-E	RAV-SM1102CT-E RAV-SM1101AT-E	RAV-SM1402CT-E RAV-SM1401AT-E
Power Supply (V/ph/Hz)	240/1/50	240/1/50	240/1/50	240/1/50
Cooling Capacity - Rated(Range) (kW)	5.00(1.50 ~ 5.60)	7.00(2.20 ~ 8.00)	10.00(2.20 ~ 11.20)	12.30(3.00 ~ 13.20)
COP	2.75(3.33 ~ 2.87)	2.77(4.40 ~ 2.90)	2.85(3.67 ~ 2.73)	2.72(4.62 ~ 2.72)
Heating Capacity - Rated(Range) (kW)	5.60(1.50 ~ 6.30)	8.00(2.20 ~ 9.00)	11.20(2.20 ~ 12.50)	14.00(3.00 ~ 16.00)
COP	3.41(3.33 ~ 2.63)	3.24(4.40 ~ 2.81)	3.50(3.67 ~ 3.05)	3.38(4.62 ~ 3.48)
Power Input - Rated(Range) (Cooling) (kW)	1.82(0.45 ~ 1.95)	2.53(0.50 ~ 2.76)	3.51(0.60 ~ 4.10)	4.52(0.65 ~ 4.85)
- Rated(Range) (Heating) (kW)	1.64(0.45 ~ 2.40)	2.47(0.50 ~ 3.20)	3.20(0.60 ~ 4.10)	4.14(0.65 ~ 4.60)
Operating Current - Rated(Range) (Cooling) (A)	7.98(2.68 ~ 8.55)	11.21(2.98 ~ 12.23)	14.90(3.57 ~ 17.43)	19.40(3.87 ~ 20.83)
- Rated(Range) (Heating) (A)	7.19(2.68 ~ 10.53)	10.95(2.98 ~ 14.18)	13.61(3.57 ~ 17.43)	17.78(3.87 ~ 19.76)
<b>Indoor Unit</b>				
Dimension (HxWxD) (mm)	210 x 910 x 680	210 x 1180 x 680	210 x 1595 x 680	210 x 1595 x 680
Net Weight (kg)	21	25	33	33
Airflow Volume (L/s)	217/187/167	308/278/243	458/400/353	500/433/385
Operating Noise (Sound Pressure)(H/L) (dB)	36/33/30	38/36/33	41/38/35	43/40/37
<b>Outdoor Unit</b>				
Dimension (HxWxD) (mm)	595 x 780 x 270	595 x 780 x 270	795 x 780 x 320	795 x 780 x 320
Net Weight (kg)	38	42	75	85
Operating Noise (Sound Pressure)(H/L) (dB)	48/46	48/46	53/54	53/54
<b>Pipe Size</b>				
Liquid Side (mm/inch)	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")
Gas Side (mm/inch)	12.70(1/2")	15.90(5/8")	15.90(5/8")	15.90(5/8")
Coupler Style	Flare	Flare	Flare	Flare
Drain (Inside Dia. mm)	15	15	15	15
Max. Piping Length (m)	30	50	50	50
Chargeless Length (m)	20	20	20	20
Max. Piping Height (m)	30	30	30	30
Usable Outdoor Temp (Cooling, °C)/(Heating, °C)	-5~43/-15~15	-5~43/-15~15	-5~43/-15~15	-5~43/-15~15

## Console and Under Ceiling system

Quiet and flexible

### Model numbers

RAV-SM562XT-E  
RAV-SM802XT-E



(included)



RAV-SM562AT-E  
RAV-SM802AT-E

## Ultimate flexibility

The console and under ceiling indoor unit can be installed either at low wall level or under the ceiling, without any modifications or additional accessories.

Both unit types can be installed with utmost ease, simply by removing the air intake grille and connecting the refrigerant piping and electrical wiring. At 23kg, under ceiling installation is easier than ever.

## Natural air distribution

Airflow can be easily directed where desired. In under ceiling applications, for example, airflow can be directed horizontally, parallel to the ceiling and far away from the room occupants, for non-intrusive, natural air distribution.



Features:

- 5 step louvre positions
- Repeat timer - memorises preferred settings
- One touch auto mode - automatically selects heat/cool
- Sleep timer/Ecologic - 25% energy saving


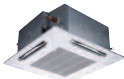





















## Effective air filtering

A triple action air filtering system effectively improves the room air quality by first removing the large particles. Then solid particles down to 0.0001 microns in size are removed by a passive electrostatic filter, and then even smaller airborne pollutants with Toshiba's patented Zeolite-Plus filter.

## Specifications

Model			RAV-SM562XT-E	RAV-SM802XT-E
- (Indoor Unit)			RAV-SM562AT-E	RAV-SM802AT-E
- (Outdoor Unit)			240/1/50	240/1/50
Power Supply	(V/ph/Hz)		240/1/50	240/1/50
Cooling Capacity	- Rated(Range)	(kW)	5.00(1.50 ~ 5.60)	6.70(2.20 ~ 8.00)
COP			2.67(2.73 ~ 2.79)	2.46(4.00 ~ 2.81)
Heating Capacity	- Rated(Range)	(kW)	5.60(1.50 ~ 6.30)	8.00(2.20 ~ 9.00)
COP			3.29(2.73 ~ 2.63)	3.00(4.00 ~ 2.60)
Power Consumption	- Rated(Range) (Cooling)	(kW)	1.87(0.55 ~ 2.01)	2.72(0.50 ~ 2.85)
	- Rated(Range) (Heating)	(kW)	1.70(0.55 ~ 2.40)	2.67(0.55 ~ 3.46)
Operating Consumption	- Rated(Range) (Cooling)	(A)	8.20(3.27 ~ 8.82)	12.06(2.98 ~ 12.63)
	- Rated(Range) (Heating)	(A)	7.46(3.27 ~ 10.53)	11.84(3.27 ~ 15.11)
<b>Indoor Unit</b>				
Dimension (HxWxD)	(mm)		208 x 1093 x 633	208 x 1093 x 633
Net Weight	(kg)		23	23
Airflow Volume (H/M/L)	(L/s)		233/200/167	308/225/178
Operating Noise (Sound Pressure) (H/M/L)	(dBA)		43/39/36	46/42/37
<b>Outdoor Unit</b>				
Dimension (HxWxD)	(mm)		595 x 780 x 270	795 x 900 x 320
Net Weight	(kg)		38	42
Operating Noise (Sound Pressure) (C/H)	(dBA)		48/46	50/48
<b>Pipe Size</b>				
Liquid Side	(mm/inch)		6.40(1/4")	9.52(3/8")
Gas Side	(mm/inch)		12.70(1/2")	15.90(5/8")
Coupler Style			Flare	Flare
Drain	(Inside Dia.mm)		16	16
Max. Piping Length	(m)		30	50
Chargeless Length	(m)		20	20
Max. Piping Height	(m)		30	30
Usable Outdoor Temp	(Cooling,°C)/(Heating,°C)		-5~43/-15~15	-5~43/-15~15



<div>Indoor Unit</div> <div>Controller Options</div>	Hi-Wall	Cassette	Ducted	Under Ceiling	Console/ Under Ceiling
					
	RAV-SM562KRT-E	RAV-SM560UT-E	RAV-SM561BT-E	RAV-SM561CT-E	RAV-SM562XT-E
	RAV-SM802KRT-E	RAV-SM802UT-E	RAV-SM801BT-E	RAV-SM801CT-E	RAV-SM802XT-E
	-	RAV-SM1100UT-E	RAV-SM1101BT-E	RAV-SM1102CT-E	-
	-	RAV-SM1402UT-E	RAV-SM1401BT-E	RAV-SM1402CT-E	-
Wired Controller <b>RBC-AMT31E</b>					
Remote Sensor <b>TCB-TC21LE</b>					
Weekly Timer <b>RBC-EXW21E</b>					
Remote Central Controller <b>TCB-SC642TLE</b>					
Wireless Remote Controller <b>(Included)</b>					
Wireless Remote Controller <b>TCB-AXT21U(W)-E</b>					

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Due to our policy of continuous improvement, product specifications and details are subject to change without notice.  
Equipment rated in accordance with MEPS AS 3823.3 - 2006  
E & OE

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May 2006  
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