

# TOSHIBA

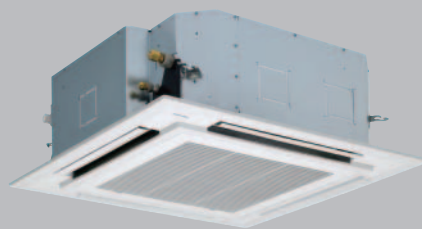
Leading Innovation >>>

S U P E R  
DIGITAL INVERTER



SDI

Inverter Air Conditioning  
for Light Commercial Use



S U P E R  
DIGITAL INVERTER







Cost Saving



Comfort



An efficient use of time

# SDI

## Super Digital Inverter

### Very efficient energy consumption

⇒ Keeps down operating costs

### Heater operation is possible starting from an outdoor temperature of $-20^{\circ}\text{C}$

(RAV-SP1104AT-E, -SP1404AT-E)

⇒ Creates a comfortable space even during cold winters

### Low-noise design. If the outdoor temperature is $30^{\circ}\text{C}$ or less, operates at under 45 dB

### Pipes can be reused

(RAV-SP1104AT-E, -SP1404AT-E)

### Compatible with pipes up to 75 meters long

(RAV-SP1104AT-E, -SP1404AT-E)

⇒ Enables the outdoor unit to be installed out of sight  
Increases installation flexibility

### Operation in Power Save Mode enables power peaks to be cut



# DI

## Digital Inverter

### Lightweight and compact outdoor unit

- ⇒ Reduces installation space and enables a more efficient use of the site
- ⇒ Keeps down delivery costs
- ⇒ Easy to install on a wall

### Pipes can be reused

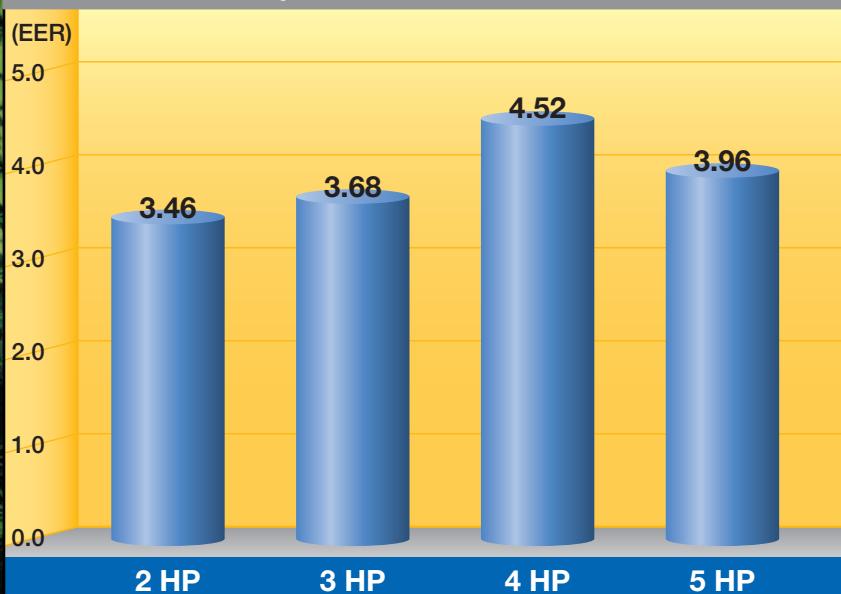




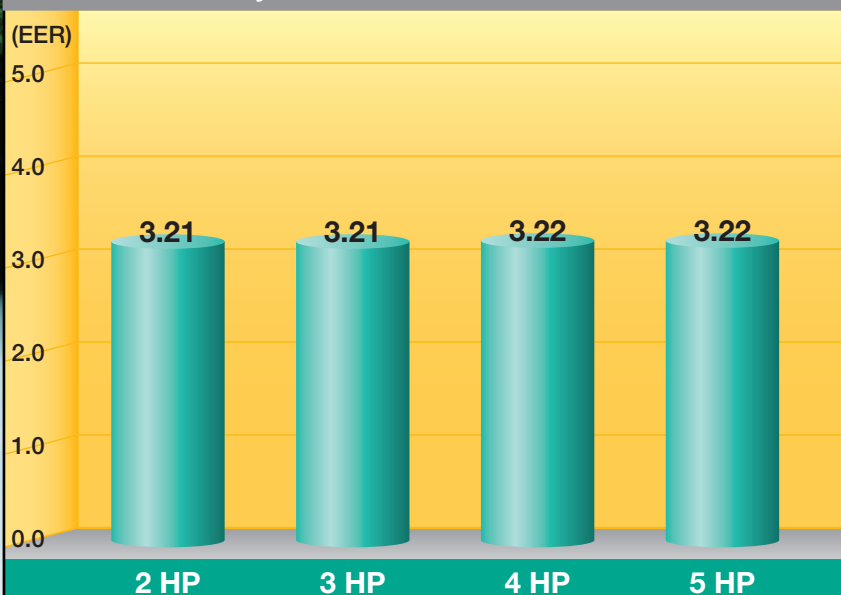
## Excellent Energy Efficiency Ratio



SDI / New 4-way cassette



DI / New 4-way cassette



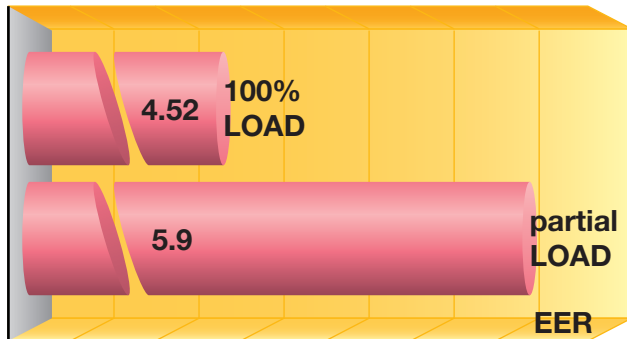
Not only are operating costs minimised, but carbon emissions are cut, helping in the fight against global warming.



# New SDI Series 4

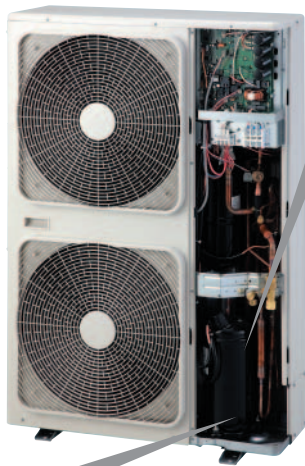
## New Models with Enhanced Energy Efficiency (RAV-SP1104AT-E, -SP1404AT-E)

Has excellent efficiency, not only under rated EER conditions, but also during partial load, which is the larger part of actual operating conditions.



In addition to achieving a top ranking during 100% load (rated) conditions...

For most of the year, the air conditioner (cooler) operates while the outdoor temperature is less than 30°C. At this time, the air conditioner load is approximately 50%, and at this level the EER is significantly greater than during rated conditions. This indicates energy efficiency in a way that cannot be expressed using just the rated energy consumption rate.



**NEW**

Equipped with a newly developed eco-driving DC twin rotary compressor



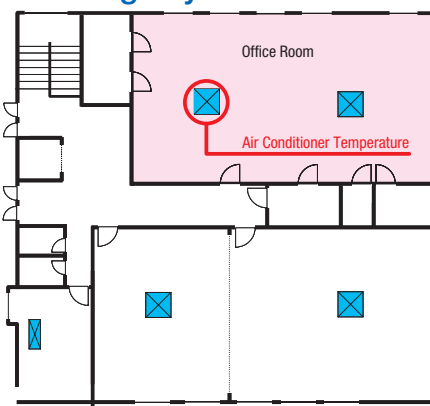
A low minimum speed of 10 rps has been achieved. This has further improved the operating efficiency when the load is low (the minimum in Series 2 was 15 rps).



The structure and shape of each compressor component has been optimised. The area of the rotor magnet has been increased and a slit introduced to the design. These improvements have further enhanced efficiency and reduced noise.

## 10 rps Operation Verification Test

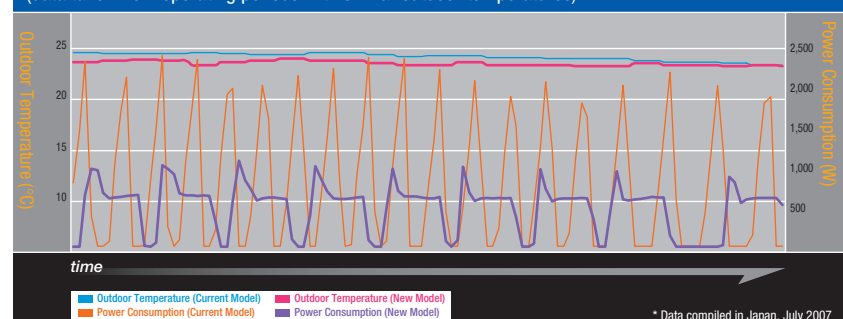
### Building Layout



To compare operating efficiency under low load operating conditions, field tests were performed where the outdoor temperature was approximately 24°C. This is about the same as when the air conditioning is set to room temperature. Measurements were taken that demonstrated that the energy consumption of the new model was 30% less than the current model (equivalent to the areas enclosed by the energy consumption curves along the time axis).

### Comparison of Measurement Results





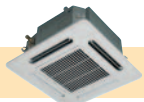




(data taken from operating periods with similar outdoor temperatures)







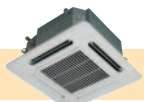




\* Data compiled in Japan, July 2007

## Line up

### SDI series

		2HP	3HP	4HP	5HP
		RAV-SP562AT-E			
Compact 4-way Cassette Type		RAV-SM562MUT-E			
4-way Cassette Type		RAV-SM564UT-E	RAV-SM804UT-E	RAV-SM1104UT-E	RAV-SM1404UT-E
Duct Type		RAV-SM562BT-E	RAV-SM802BT-E	RAV-SM1102BT-E	RAV-SM1402BT-E
Ceiling Type		RAV-SM562CT-E	RAV-SM802CT-E	RAV-SM1102CT-E	RAV-SM1402CT-E
High-wall Type		RAV-SM562KRT-E	RAV-SM802KRT-E		

### DI series

		2HP	3HP	4HP	5HP
		RAV-SM563AT-E			
Compact 4-way Cassette Type		RAV-SM562MUT-E			
4-way Cassette Type		RAV-SM564UT-E	RAV-SM804UT-E	RAV-SM1104UT-E	RAV-SM1404UT-E
Duct Type		RAV-SM562BT-E	RAV-SM802BT-E	RAV-SM1102BT-E	RAV-SM1402BT-E
Ceiling Type		RAV-SM562CT-E	RAV-SM802CT-E	RAV-SM1102CT-E	RAV-SM1402CT-E
High-wall Type		RAV-SM562KRT-E	RAV-SM802KRT-E		



## Available Indoor Units



4-way  
Cassette  
Type



Duct  
Type



Ceiling  
Type



High-wall  
Type



# Compact 4-way Cassette Type



## Model

RAV-SM562MUT-E

## Panel

RBC-UM11PG(W)-E



## Perfect for grid system ceiling

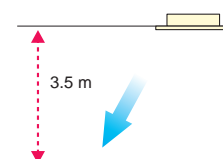
1. This compact unit (575x575) fits perfectly into ceilings and matches standard architectural modules, without the need to cut ceiling tiles.
2. The compact & stylish panel design is ideal for fashionable restaurants, shops and offices.
3. The flaps fold tightly against the ceiling when operation stops so that the ceiling is affected only slightly even if air-conditioning is installed.

## Designed for simple & easy installation and maintenance

1. The slim design is only 268 mm in height even when an electrical box is located inside the unit.
2. Easy access to electrical box is achieved by simply removing the suction grill.  
The ceiling type offers easy installation and maintenance, since the electrical box is located inside the unit.
3. Easy installation can also be achieved using the panel adjust pocket.  
Use the "gadjust pocket" function for fine adjustments after installation.
4. The drain up height is 850 mm. Correspondence is possible even if installation conditions are severe.
5. Available for ceilings up to 3.5 m.
6. The drain-checking hole makes it possible to check the drain pan through the side case.



Drain-checking hole



Available up to

## Comfort



**Inverter**  
Allows step-less regulation of the air-conditioner's power, which reduces energy consumption and improves comfort.



**Long-life Filter**  
Built-in long-life filter makes maintenance easier.



**Auto-turn Louvers**  
Air outlet grilles move automatically to fill every corner of the room with warm or cool air.



**Hot Start**  
When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



**Automatic Air Volume Control**  
Depending on the difference between the room temperature and the set temperature, switches automatically between High, Low and Very Low.



**Automatic Cooling/Heating**  
Automatically switches between cooling and heating mode.



**Dry**  
Gradually dehumidifies the room to create even greater comfort.

## Operativity



**Filter Sign**  
Automatic displays on the remote controller say when to perform maintenance for the indoor unit filter.



**Limit Timer**  
Uses a 168-hour timer with three modes — "ON timer", "OFF timer" and "Repeat OFF timer".

## Installation



**Cooler Compatible with an Outdoor Temperature of -15°C**  
Stable cooler operation is possible when the outdoor temperature is as low as -15°C.



**Built-in Drain Pump**  
The built-in drain pump makes draining easier. (In the ceiling cassette type, it is built in to the main unit.)

		SDI	Twin SDI
Outdoor unit		RAV-SP562AT-E	RAV-SP1104AT-E
Indoor unit		RAV-SM562MUT-E	RAV-SM562MUT-E
Cooling capacity	kW	5.0	10.0
Cooling capacity, min-max	kW	2.2-5.6	2.6-12.0
Power input, cooling	kW	1.53	2.67
EER	W/W	3.27	3.75
Energy efficiency class, cooling		A	A
Annual energy consumption	kWh	765	1335
Heating capacity	kW	5.6	11.2
Heating capacity, min-max	kW	2.2-7.0	2.4-13.0
Power input, heating	kW	1.54	2.67
COP	W/W	3.64	4.19
Energy efficiency class, heating		A	A
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50

		DI	Twin DI
Outdoor unit		RAV-SM563AT-E	RAV-SM1103AT-E
Indoor unit		RAV-SM562MUT-E	RAV-SM562MUT-E
Cooling capacity	kW	5.0	10.0
Cooling capacity, min-max	kW	1.5-5.6	3.0-11.2
Power input, cooling	kW	1.61	3.52
EER	W/W	3.11	2.84
Energy efficiency class, cooling		B	C
Annual energy consumption	kWh	805	1760
Heating capacity	kW	5.6	11.2
Heating capacity, min-max	kW	1.5-6.3	3.0-13.0
Power input, heating	kW	1.61	3.14
COP	W/W	3.48	3.57
Energy efficiency class, heating		B	B
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50

Indoor unit		RAV-SM562MUT-E
Air Flow	m³/h	798
Sound pressure level (H-M-L)	dB(A)	43/34
Sound power level (H-M-L)	dB(A)	58/49
Dimensions (HxWxD)	mm	268x575x575
Weight	kg	17
Panel model name		RBC-UM11PG(W)-E
Panel dimensions (HxWxD)	mm	27x700x700
Panel weight	kg	3

		SDI
Outdoor unit		RAV-SP562AT-E
Air Flow	m³/h	3420
Sound pressure level, heating/cooling	dB(A)	47/46
Sound power level, heating/cooling	dB(A)	64/63
Dimensions (HxWxD)	mm	795x900x320
Weight	kg	55
Compressor type		DC Twin Rotary
Refrigerant type		R410A
Pipe connections Gas/Liquid	mm	12.7/6.4
Pipe length, min	m	5
Pipe length, max	m	50
Pipe length, precharge	m	20
Maximum height difference	m	30
Operating range, cooling	°C	-15-43
Operating range, heating	°C	-15-15

		DI
Outdoor unit		RAV-SM563AT-E
Air Flow	m³/h	2400
Sound pressure level, heating/cooling	dB(A)	48/46
Sound power level, heating/cooling	dB(A)	65/63
Dimensions (HxWxD)	mm	550x780x290
Weight	kg	38
Compressor type		DC Twin Rotary
Refrigerant type		R410A
Pipe connections Gas/Liquid	mm	12.7/6.4
Pipe length, min	m	5
Pipe length, max	m	30
Pipe length, precharge	m	20
Maximum height difference	m	30
Operating range, cooling	°C	-15-43
Operating range, heating	°C	-15-15



# 4-way Cassette Type

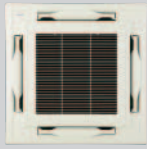


## Models

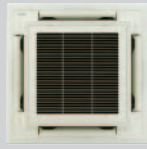
RAV-SM564UT-E  
RAV-SM804UT-E  
RAV-SM1104UT-E  
RAV-SM1404UT-E

## Panels

RBC-U31PG(W)-E  
RBC-U31PGS(W)-E



RBC-U31PG(W)-E



RBC-U31PGS(W)-E

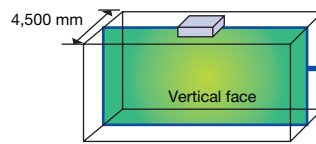
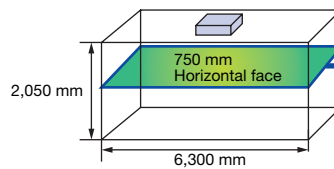
## Wireless remote controller kit

RBC-AX31U(W)-E

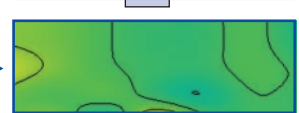
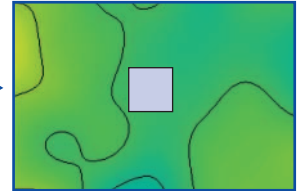


## Temperature conditioning

RAV-SM564UT-E/RBC-U31PG-E



Mode : cooling  
Louvre position : horizontal  
Fan speed : Hi



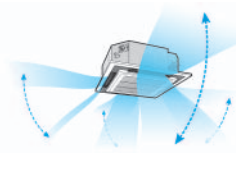
23 28 (°C)

## Individual Louvre Control

The angles of each of the four louvres can be set individually  
⇒ Enables airflow to be chosen according to user preferences.

### Three louvre swing patterns

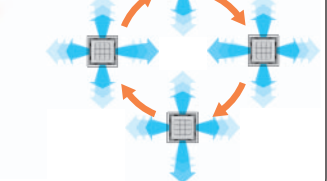
(1) Standard swing



(2) Diagonally opposite swing



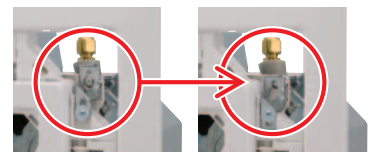
(3) Turn-around swing



Note: Need to set from wired remote controller

## Easy installation

The panel is attached using the bolt that is already installed on the indoor unit.



## Comfort



**Inverter**  
Allows step-less regulation of the air-conditioner's power, which reduces energy consumption and improves comfort.



**Long-life Filter**  
Built-in long-life filter makes maintenance easier.



**Individual louvre control**  
Enables airflows to be chosen according to user preferences.



**Hot Start**  
When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



**Auto-turn Louvres**  
Air outlet grilles move automatically to fill every corner of the room with warm or cool air.



**Automatic Cooling/Heating**  
Automatically switches between cooling and heating mode.



**Automatic Air Volume Control**  
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**Dry**  
Gradually dehumidifies the room to create even greater comfort.

## Operativity



**Filter Sign**  
Automatic displays on the remote controller say when to perform maintenance for the indoor unit filter.



**Limit Timer**  
Uses a 168-hour timer with three modes — "ON timer", "OFF timer" and "Repeat OFF timer".

## Installation



**Cooler Compatible with an Outdoor Temperature of -15°C**  
Stable cooler operation is possible when the outdoor temperature is as low as -15°C.



**Built-in Drain Pump**  
The built-in drain pump makes draining easier. (In the ceiling cassette type, it is built in to the main unit.)

		SDI				Twin SDI	
Outdoor unit Indoor unit		RAV-SP562AT-E RAV-SM564UT-E	RAV-SP802AT-E RAV-SM804UT-E	RAV-SP1104AT-E RAV-SM1104UT-E	RAV-SP1404AT-E RAV-SM1404UT-E	RAV-SP1104AT-E RAV-SM564UT-E	RAV-SP1404AT-E RAV-SM804UT-E
Cooling capacity	kW	5.3	7.1	10.0	12.5	10.0	12.5
Cooling capacity, min-max	kW	2.2-5.6	2.2-8.0	2.6-12.0	2.6-14.0	2.6-12.0	2.6-14.0
Power input, cooling	kW	1.53	1.93	2.21	3.16	2.21	3.16
EER	W/W	3.46	3.68	4.52	3.96	4.52	3.96
Energy efficiency class, cooling		A	A	A	A	A	A
Annual energy consumption	kWh	765	965	1105	1580	1105	1580
Heating capacity	kW	5.6	8.0	11.2	14.0	11.2	14.0
Heating capacity, min-max	kW	2.2-7.1	2.2-10.0	2.4-13.0	2.4-16.5	2.4-13.0	2.4-16.5
Power input, heating	kW	1.20	2.03	2.34	3.21	2.34	3.21
COP	W/W	4.67	3.94	4.79	4.36	4.79	4.36
Energy efficiency class, heating		A	A	A	A	A	A
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

		DI				Twin DI	
Outdoor unit Indoor unit		RAV-SM563AT-E RAV-SM564UT-E	RAV-SM803AT-E RAV-SM804UT-E	RAV-SM1103AT-E RAV-SM1104UT-E	RAV-SM1403AT-E RAV-SM1404UT-E	RAV-SM1103AT-E RAV-SM564UT-E	RAV-SM1403AT-E RAV-SM804UT-E
Cooling capacity	kW	5.3	6.7	10.0	12.0	10.0	12.5
Cooling capacity, min-max	kW	1.5-5.6	1.5-8.0	3.0-11.2	3.0-13.2	3.0-11.2	3.0-13.2
Power input, cooling	kW	1.65	2.09	3.11	3.74	3.11	4.09
EER	W/W	3.21	3.21	3.22	3.21	3.22	3.06
Energy efficiency class, cooling		A	A	A	A	A	B
Annual energy consumption	kWh	825	1045	1555	1870	1555	2045
Heating capacity	kW	5.6	8.0	11.2	14.0	11.2	14.0
Heating capacity, min-max	kW	1.5-6.3	1.5-9.0	3.0-13.0	3.0-16.0	3.0-13.0	3.0-16.0
Power input, heating	kW	1.44	2.21	2.93	3.80	2.93	4.00
COP	W/W	3.89	3.62	3.82	3.68	3.82	3.50
Energy efficiency class, heating		A	A	A	A	A	B
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

Indoor unit		RAV-SM564UT-E	RAV-SM804UT-E	RAV-SM1104UT-E	RAV-SM1404UT-E
Air Flow	m³/h	1050	1230	2010	2100
Sound pressure level (H-M-L)	dB(A)	32-29-28	35-31-28	43-38-33	44-38-34
Sound power level (H-M-L)	dB(A)	47-44-43	50-46-43	58-53-48	59-53-49
Dimensions (HxWxD)	mm	256x840x840	256x840x840	319x840x840	319x840x840
Weight	kg	20	20	24	24
Panel model name		RBC-U31PG(W)-E	RBC-U31PG(W)-E	RBC-U31PG(W)-E	RBC-U31PG(W)-E
Panel dimensions (HxWxD)	mm	30x950x950	30x950x950	30x950x950	30x950x950
Panel weight	kg	4.2	4.2	4.2	4.2

		SDI			
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Air Flow	m³/h	3420	3420	6060	6180
Sound pressure level, heating/cooling	dB(A)	47/46	49/47	50/49	52/51
Sound power level, heating/cooling	dB(A)	64/63	66/64	67/66	69/68
Dimensions (HxWxD)	mm	795x900x320	795x900x320	1340x900x320	1340x900x320
Weight	kg	55	62	93	93
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A	R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5	15.9/9.5	15.9/9.5
Pipe length, min	m	5	5	3	3
Pipe length, max	m	50	50	75	75
Pipe length, precharge	m	20	30	30	30
Maximum height difference	m	30	30	30	30
Operating range, cooling	°C	-15-43	-15-43	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15	-20-15	-20-15

		DI			
Outdoor unit		RAV-SM563AT-E	RAV-SM803AT-E	RAV-SM1103AT-E	RAV-SM1403AT-E
Air Flow	m³/h	2400	2700	4500	4500
Sound pressure level, heating/cooling	dB(A)	48/46	50/48	54/53	54/54
Sound power level, heating/cooling	dB(A)	65/63	67/65	71/70	71/71
Dimensions (HxWxD)	mm	550x780x290	550x780x290	795x900x320	795x900x320
Weight	kg	38	42	77	77
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A	R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5	15.9/9.5	15.9/9.5
Pipe length, min	m	5	5	5	5
Pipe length, max	m	30	30	50	50
Pipe length, precharge	m	20	20	30	30
Maximum height difference	m	30	30	30	30
Operating range, cooling	°C	-15-43	-15-43	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15	-15-15	-15-15



## Versatile and Clever Duct Type

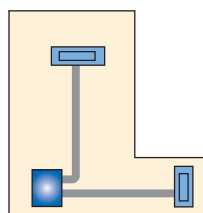


### Models

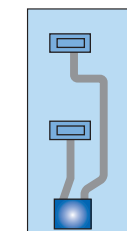
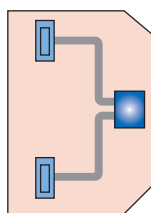
RAV-SM562BT-E  
RAV-SM802BT-E  
RAV-SM1102BT-E  
RAV-SM1402BT-E

### Wide range of applications

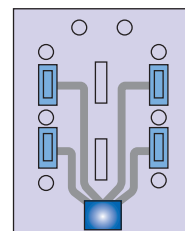
The use of ducts allows air outlets to be conveniently installed anywhere on the ceiling, eliminating the conspicuous presence of the air conditioner in the center of the room. Not only can this be applied to a wide variety of layouts from narrow spaces to polygonal rooms; it also greatly improves the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



Polygonal rooms



Narrow rooms



Rooms with fixtures and obstacles

### High static pressure

External static pressure can be raised as high as 98 Pa, so that all areas of the room can be reached for even temperature distribution, no matter how complex the layout.

### High-lift drain pump

The flexible piping layout is made possible by an optionally available drain-pump kit that raises the drain piping up to 27 cm from the drain port.

#### Comfort



**Inverter**  
Allows step-less regulation of the air-conditioner's power, which reduces energy consumption and improves comfort.



**Hot Start**  
When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



**Automatic Air Volume Control**  
Depending on the difference between the room temperature and the set temperature, switches automatically between High, Low and Very Low.



**Automatic Cooling/Heating**  
Automatically switches between cooling and heating mode.



**Long-life Filter**  
Built-in long-life filter makes maintenance easier.



**Dry**  
Gradually dehumidifies the room to create even greater comfort.

#### Operativity



**Filter Sign**  
Automatic displays on the remote controller say when to perform maintenance for the indoor unit filter.



**Limit Timer**  
Uses a 168-hour timer with three modes — "ON timer", "OFF timer" and "Repeat OFF timer".

#### Installation



**Cooler Compatible with an Outdoor Temperature of -15°C**  
Stable cooler operation is possible when the outdoor temperature is as low as -15°C.



**Built-in Drain Pump**  
The built-in drain pump makes draining easier. (In the ceiling cassette type, it is built in to the main unit.)

		SDI				Twin SDI	
Outdoor unit	Indoor unit	RAV-SP562AT-E RAV-SM562BT-E	RAV-SP802AT-E RAV-SM802BT-E	RAV-SP1104AT-E RAV-SM1102BT-E	RAV-SP1404AT-E RAV-SM1402BT-E	RAV-SP1104AT-E RAV-SM562BT-E	RAV-SP1404AT-E RAV-SM802BT-E
Cooling capacity	kW	5.0	7.1	10.0	12.5	10.0	12.5
Cooling capacity, min-max	kW	2.2-5.6	2.2-8.0	2.6-12.0	2.6-14.0	2.6-12.0	2.6-14.0
Power input, cooling	kW	1.39	2.10	2.94	3.83	2.94	3.83
EER	W/W	3.60	3.38	3.40	3.26	3.40	3.26
Energy efficiency class, cooling		A	A	A	A	A	A
Annual energy consumption	kWh	695	1050	1470	1915	1470	1915
Heating capacity	kW	5.6	8.0	11.2	14.0	11.2	14.0
Heating capacity, min-max	kW	2.2-7.0	2.2-10.0	2.4-13.0	2.4-16.5	2.4-13.0	2.4-16.5
Power input, heating	kW	1.55	2.10	2.77	3.41	2.77	3.41
COP	W/W	3.61	3.81	4.04	4.11	4.04	4.11
Energy efficiency class, heating		A	A	A	A	A	A
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

		DI				Twin DI	
Outdoor unit	Indoor unit	RAV-SM563AT-E RAV-SM562BT-E	RAV-SM803AT-E RAV-SM802BT-E	RAV-SM1103AT-E RAV-SM1102BT-E	RAV-SM1403AT-E RAV-SM1402BT-E	RAV-SM1103AT-E RAV-SM562BT-E	RAV-SM1403AT-E RAV-SM802BT-E
Cooling capacity	kW	5.0	7.1	10.0	12.5	10.0	12.5
Cooling capacity, min-max	kW	1.5-5.6	1.5-7.4	3.0-12.5	3.0-13.2	3.0-11.2	3.0-13.2
Power input, cooling	kW	1.78	2.53	3.56	4.42	3.56	4.42
EER	W/W	2.81	2.81	2.81	2.83	2.81	2.83
Energy efficiency class, cooling		C	C	C	C	C	C
Annual energy consumption	kWh	890	1265	1780	2210	1780	2210
Heating capacity	kW	5.6	8.0	11.2	14.0	11.2	14.0
Heating capacity, min-max	kW	1.5-6.3	1.5-9.0	3.0-12.5	3.0-16.0	3.0-12.5	3.0-16.0
Power input, heating	kW	1.71	2.41	3.14	4.03	3.14	4.03
COP	W/W	3.27	3.32	3.57	3.47	3.57	3.47
Energy efficiency class, heating		C	C	B	B	B	B
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

Indoor unit		RAV-SM562BT-E	RAV-SM802BT-E	RAV-SM1102BT-E	RAV-SM1402BT-E
Air Flow	m³/h	780	1140	1620	1980
Sound pressure level (H-M-L)	dB(A)	40-37-33	40-37-34	42-39-36	44-41-38
Sound power level (H-M-L)	dB(A)	55-52-48	55-52-49	57-54-51	59-56-53
Dimensions (HxWxD)	mm	320x700x800	320x1000x800	320x1350x800	320x1350x800
Weight	kg	30	39	54	54

		SDI			
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Air Flow	m³/h	3420	3420	6060	6180
Sound pressure level, heating/cooling	dB(A)	47/46	49/47	50/49	52/51
Sound power level, heating/cooling	dB(A)	64/63	66/64	67/66	69/68
Dimensions (HxWxD)	mm	795x900x320	795x900x320	1340x900x320	1340x900x320
Weight	kg	55	62	93	93
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A	R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5	15.9/9.5	15.9/9.5
Pipe length, min	m	5	5	3	3
Pipe length, max	m	50	50	75	75
Pipe length, precharge	m	20	30	30	30
Maximum height difference	m	30	30	30	30
Operating range, cooling	°C	-15-43	-15-43	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15	-20-15	-20-15

		DI			
Outdoor unit		RAV-SM563AT-E	RAV-SM803AT-E	RAV-SM1103AT-E	RAV-SM1403AT-E
Air Flow	m³/h	2400	2700	4500	4500
Sound pressure level, heating/cooling	dB(A)	48/46	50/48	54/53	54/54
Sound power level, heating/cooling	dB(A)	65/63	67/65	71/70	71/71
Dimensions (HxWxD)	mm	550x780x290	550x780x290	795x900x320	795x900x320
Weight	kg	38	42	77	77
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A	R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5	15.9/9.5	15.9/9.5
Pipe length, min	m	5	5	5	5
Pipe length, max	m	30	30	50	50
Pipe length, precharge	m	20	20	30	30
Maximum height difference	m	30	30	30	30
Operating range, cooling	°C	-15-43	-15-43	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15	-15-15	-15-15



Quiet and Comfortable

# Ceiling Type



## Models

RAV-SM562CT-E  
RAV-SM802CT-E  
RAV-SM1102CT-E  
RAV-SM1402CT-E

## Wireless remote controller kit

RBC-AX22CE2



## Comfortable ambience

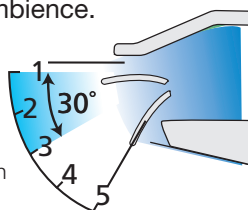
### Quietest in industry

A new design has been adopted that greatly reduces the noise level to half that of conventional units. Operation is always whisper-quiet.

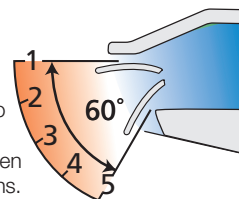
### Flap control

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

In cooling mode, the flap automatically swings between the top three positions.



In heating mode, the flap automatically swings between all five positions.



## 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 grill. Compared to conventional units which involve a dozen screws, installation is further simplified.

## Comfort



### Inverter

Allows step-less regulation of the air-conditioner's power, which reduces energy consumption and improves comfort.



### Hot Start

When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



### Auto-turn Louvres

Air outlet grilles move automatically to fill every corner of the room with warm or cool air.



### Automatic Cooling/Heating

Automatically switches between cooling and heating mode.



### Automatic Air Volume Control

Depending on the difference between the room temperature and the set temperature, switches automatically between High, Low and Very Low.



### Dry

Gradually dehumidifies the room to create even greater comfort.



### Long-life Filter

Built-in long-life filter makes maintenance easier.

## Operativity



### Filter Sign

Automatic displays on the remote controller say when to perform maintenance for the indoor unit filter.



### Limit Timer

Uses a 168-hour timer with three modes — "ON timer", "OFF timer" and "Repeat OFF timer".

## Installation



### Cooler Compatible with an Outdoor Temperature of -15°C

Stable cooler operation is possible when the outdoor temperature is as low as -15°C.



### Built-in Drain Pump

The built-in drain pump makes draining easier. (In the ceiling cassette type, it is built in to the main unit.)

Optional

		SDI				Twin SDI	
Outdoor unit	Indoor unit	RAV-SP562AT-E RAV-SM562CT-E	RAV-SP802AT-E RAV-SM802CT-E	RAV-SP1104AT-E RAV-SM1102CT-E	RAV-SP1404AT-E RAV-SM1402CT-E	RAV-SP1104AT-E RAV-SM562CT-E	RAV-SP1404AT-E RAV-SM802CT-E
Cooling capacity	kW	5.0	7.1	10.0	12.5	10.0	12.5
Cooling capacity, min-max	kW	2.2-5.6	2.2-8.0	2.6-12.0	2.6-14.0	2.6-12.0	2.6-14.0
Power input, cooling	kW	1.41	2.10	2.67	3.73	2.67	3.73
EER	W/W	3.55	3.38	3.75	3.35	3.75	3.35
Energy efficiency class, cooling		A	A	A	A	A	A
Annual energy consumption	kWh	705	1050	1335	1865	1335	1865
Heating capacity	kW	5.6	8.0	11.2	14.0	11.2	14.0
Heating capacity, min-max	kW	2.2-7.0	2.2-10.0	2.4-13.0	2.4-16.5	2.4-13.0	2.4-16.5
Power input, heating	kW	1.50	2.20	2.62	3.65	2.62	3.65
COP	W/W	3.73	3.64	4.27	3.84	4.27	3.84
Energy efficiency class, heating		A	A	A	A	A	A
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

		DI				Twin DI	
Outdoor unit	Indoor unit	RAV-SM563AT-E RAV-SM562CT-E	RAV-SM803AT-E RAV-SM802CT-E	RAV-SM1103AT-E RAV-SM1102CT-E	RAV-SM1403AT-E RAV-SM1402CT-E	RAV-SM1103AT-E RAV-SM562CT-E	RAV-SM1403AT-E RAV-SM802CT-E
Cooling capacity	kW	5.0	7.0	10.0	12.3	10.0	12.3
Cooling capacity, min-max	kW	1.5-5.6	1.5-7.4	3.0-11.2	3.0-13.2	3.0-11.2	3.0-13.2
Power input, cooling	kW	1.82	2.53	3.51	4.52	3.51	4.52
EER	W/W	2.75	2.77	2.85	2.72	2.85	2.72
Energy efficiency class, cooling		D	D	C	D	C	D
Annual energy consumption	kWh	910	1265	1755	2260	1755	2260
Heating capacity	kW	5.6	8.0	11.2	14.0	11.2	14.0
Heating capacity, min-max	kW	1.5-6.3	1.5-9.0	3.0-12.5	3.0-16.0	3.0-12.5	3.0-16.0
Power input, heating	kW	1.64	2.47	3.20	4.14	3.20	4.14
COP	W/W	3.41	3.24	3.50	3.38	3.50	3.38
Energy efficiency class, heating		B	C	B	C	B	C
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

Indoor unit		RAV-SM562CT-E	RAV-SM802CT-E	RAV-SM1102CT-E	RAV-SM1402CT-E
Air Flow	m³/h	780	1110	1650	1800
Sound pressure level (H-M-L)	dB(A)	36-33-30	38-36-33	41-38-35	43-40-37
Sound power level (H-M-L)	dB(A)	51-48-45	53-51-48	56-53-50	58-55-52
Dimensions (HxWxD)	mm	210x910x680	210x1180x680	210x1595x680	210x1595x680
Weight	kg	21	25	33	33

		SDI			
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Air Flow	m³/h	3420	3420	6060	6180
Sound pressure level, heating/cooling	dB(A)	47/46	49/47	50/49	52/51
Sound power level, heating/cooling	dB(A)	64/63	66/64	67/66	69/68
Dimensions (HxWxD)	mm	795x900x320	795x900x320	1340x900x320	1340x900x320
Weight	kg	55	62	93	93
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A	R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5	15.9/9.5	15.9/9.5
Pipe length, min	m	5	5	3	3
Pipe length, max	m	50	50	75	75
Pipe length, precharge	m	20	30	30	30
Maximum height difference	m	30	30	30	30
Operating range, cooling	°C	-15-43	-15-43	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15	-20-15	-20-15

		DI			
Outdoor unit		RAV-SM563AT-E	RAV-SM803AT-E	RAV-SM1103AT-E	RAV-SM1403AT-E
Air Flow	m³/h	2400	2700	4500	4500
Sound pressure level, heating/cooling	dB(A)	48/46	50/48	54/53	54/54
Sound power level, heating/cooling	dB(A)	65/63	67/65	71/70	71/71
Dimensions (HxWxD)	mm	550x780x290	550x780x290	795x900x320	795x900x320
Weight	kg	38	42	77	77
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A	R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5	15.9/9.5	15.9/9.5
Pipe length, min	m	5	5	5	5
Pipe length, max	m	30	30	50	50
Pipe length, precharge	m	20	20	30	30
Maximum height difference	m	30	30	30	30
Operating range, cooling	°C	-15-43	-15-43	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15	-15-15	-15-15

# High-wall Type



## Models

RAV-SM562KRT-E  
RAV-SM802KRT-E

## Features

With its attractive, slim-line design, this unit is best suited for restaurants and other applications where elegance is required. The filtration system further improves the indoor air quality benefits of this high-wall unit.

## Key features

With its slim design, this compact and stylish unit blends into any room setting.

**Enhanced filtration system:** Zeolite Plus + Sasa filter to deodorise, Bio-Enzyme filter + Ginkgo filter to purify and a new antioxidant Vitamin C filter.

Auto-louvre mode allows optimum air distribution throughout the room.

A wireless controller is included.

A TCC Link remote control is optional.

## Comfort



### Inverter

Allows step-less regulation of the air-conditioner's power, which reduces energy consumption and improves comfort.



### Hot Start

When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



### Auto-turn Louvres

Air outlet grilles move automatically to fill every corner of the room with warm or cool air.



### Automatic Cooling/Heating

Automatically switches between cooling and heating mode.



### Automatic Air Volume Control

Depending on the difference between the room temperature and the set temperature, switches automatically between High, Low and Very Low.



### Dry

Gradually dehumidifies the room to create even greater comfort.

## Operativity



### On/Off Timer

The operation start and stop times can be set with a digital clock.



### Cooler Compatible with an Outdoor Temperature of -15°C

Stable cooler operation is possible when the outdoor temperature is as low as -15°C.

## Installation



		SDI		Twin SDI	
Outdoor unit	Indoor unit	RAV-SP562AT-E RAV-SM562KRT-E	RAV-SP802AT-E RAV-SM802KRT-E	RAV-SP1104AT-E RAV-SM562KRT-E	RAV-SP1404AT-E RAV-SM802KRT-E
Cooling capacity	kW	5.0	6.9	10.0	12.3
Cooling capacity, min-max	kW	2.2-5.6	2.2-8.0	2.6-12.0	2.6-13.5
Power input, cooling	kW	1.39	2.40	2.77	3.88
EER	W/W	3.60	2.88	3.61	3.17
Energy efficiency class, cooling		A	C	A	B
Annual energy consumption	kWh	695	1200	1385	1940
Heating capacity	kW	5.6	8.0	11.2	14.0
Heating capacity, min-max	kW	2.2-7.0	2.2-9.5	2.4-13.0	2.4-16.5
Power input, heating	kW	1.55	2.40	2.80	3.83
COP	W/W	3.61	3.33	4.00	3.66
Energy efficiency class, heating		A	C	A	A
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

		DI		Twin DI	
Outdoor unit	Indoor unit	RAV-SM563AT-E RAV-SM562KRT-E	RAV-SM803AT-E RAV-SM802KRT-E	RAV-SM1103AT-E RAV-SM562KRT-E	RAV-SM1403AT-E RAV-SM802KRT-E
Cooling capacity	kW	5.1	6.7	10.0	12.0
Cooling capacity, min-max	kW	1.5-5.6	1.5-7.0	3.0-11.2	3.0-13.0
Power input, cooling	kW	1.74	2.72	3.48	4.52
EER	W/W	2.93	2.46	2.87	2.65
Energy efficiency class, cooling		C	E	C	D
Annual energy consumption	kWh	870	1360	1740	2260
Heating capacity	kW	5.6	8.0	11.2	14.0
Heating capacity, min-max	kW	1.5-6.3	1.5-9.0	3.0-12.5	3.0-16.0
Power input, heating	kW	1.70	2.67	3.14	4.24
COP	W/W	3.29	3.00	3.57	3.30
Energy efficiency class, heating		C	D	B	C
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50






Indoor unit		RAV-SM562KRT-E	RAV-SM802KRT-E
Air Flow	m³/h	840	1110
Sound pressure level (H-M-L)	dB(A)	39-36-33	45-41-36
Sound power level (H-M-L)	dB(A)	54-51-48	60-56-51
Dimensions (HxWxD)	mm	298x998x221	298x998x221
Weight	kg	12	12

		SDI	
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E
Air Flow	m³/h	3420	3420
Sound pressure level, heating/cooling	dB(A)	47/46	49/47
Sound power level, heating/cooling	dB(A)	64/63	66/64
Dimensions (HxWxD)	mm	795x900x320	795x900x320
Weight	kg	55	62
Compressor type		DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5
Pipe length, min	m	5	5
Pipe length, max	m	50	50
Pipe length, precharge	m	20	30
Maximum height difference	m	30	30
Operating range, cooling	°C	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15

		DI	
Outdoor unit		RAV-SM563AT-E	RAV-SM803AT-E
Air Flow	m³/h	2400	2700
Sound pressure level, heating/cooling	dB(A)	48/46	50/48
Sound power level, heating/cooling	dB(A)	65/63	67/65
Dimensions (HxWxD)	mm	550x780x290	550x780x290
Weight	kg	38	42
Compressor type		DC Twin Rotary	DC Twin Rotary
Refrigerant type		R410A	R410A
Pipe connections Gas/Liquid	mm	12.7/6.4	15.9/9.5
Pipe length, min	m	5	5
Pipe length, max	m	30	30
Pipe length, precharge	m	20	20
Maximum height difference	m	30	30
Operating range, cooling	°C	-15-43	-15-43
Operating range, heating	°C	-15-15	-15-15

## Remote Controllers

Toshiba Digital Inverters & Super Digital Inverters are operated with an easy-to-use remote controller.

	Wired remote controller		Simple wired remote controller	
Appearance				
Model name	RBC-AMT32E		RBC-AS21E2	
	Wireless remote controller kits			
Appearance	 Integral receiver	 Integral receiver	 Standalone receiver	
Model name	RBC-AX31U(W)-E	RBC-AX22CE2	TCB-AX21E2	
Remarks	For 4-way cassette type (Series 4)	For under ceiling type (Series 2)		

## Combinations

		Wired			Wireless	
		RBC-AMT32E	RBC-AS21E2	RBC-AX31U(W)-E	RBC-AX22CE2	TCB-AX21E2
Compact 4-way Series 2	RAV-SM562MUT-E	OK	OK			OK
4-way Cassette Series 4	RAV-SM564UT-E	OK	OK	OK		OK
	RAV-SM804UT-E	OK	OK	OK		OK
	RAV-SM1104UT-E	OK	OK	OK		OK
	RAV-SM1404UT-E	OK	OK	OK		OK
Duct Series 2	RAV-SM562BT-E	OK	OK			OK
	RAV-SM802BT-E	OK	OK			OK
	RAV-SM1102BT-E	OK	OK			OK
	RAV-SM1402BT-E	OK	OK			OK
Ceiling Series 2	RAV-SM562CT-E	OK	OK		OK	OK
	RAV-SM802CT-E	OK	OK		OK	OK
	RAV-SM1102CT-E	OK	OK		OK	OK
	RAV-SM1402CT-E	OK	OK		OK	OK
High-wall Series 2	RAV-SM562KRT-E	OK	OK			OK
	RAV-SM802KRT-E	OK	OK			OK

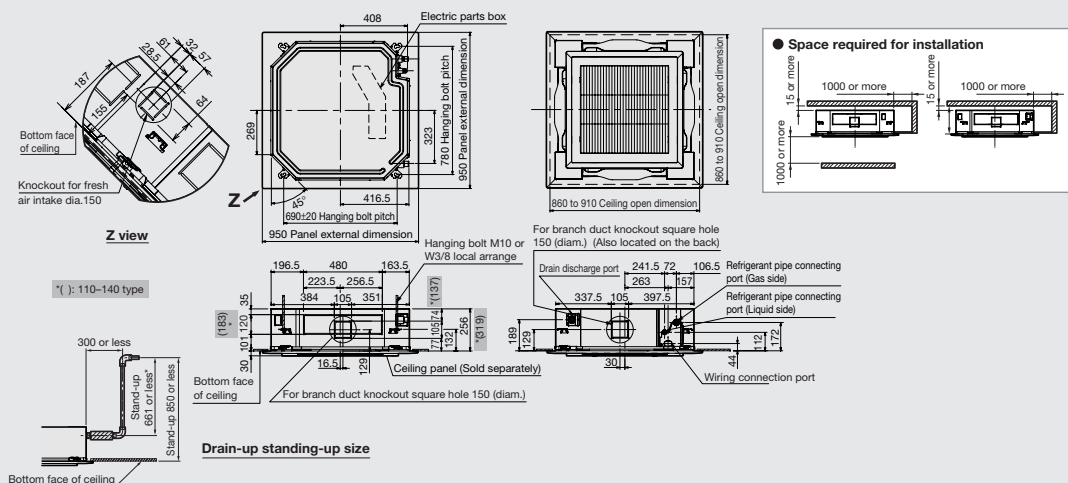




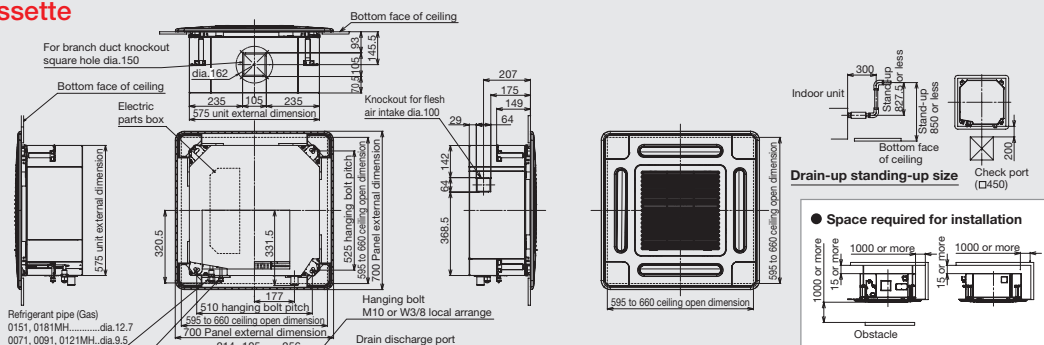
## Indoor units

Unit: mm

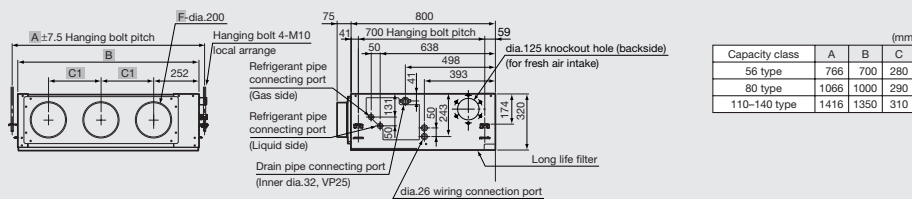
### 4-way cassette



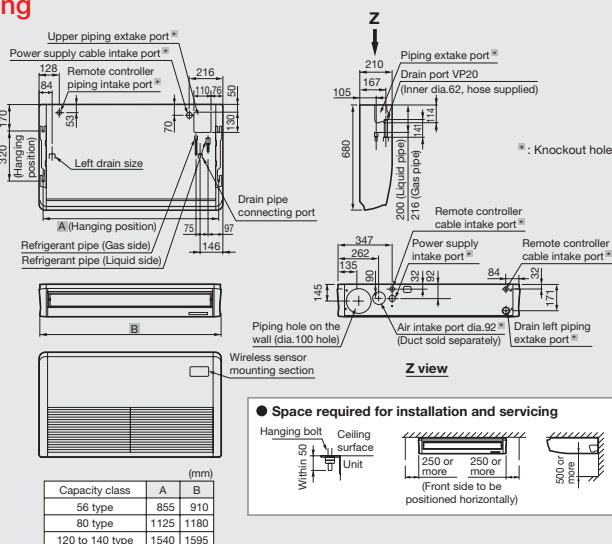
### Compact 4-way cassette



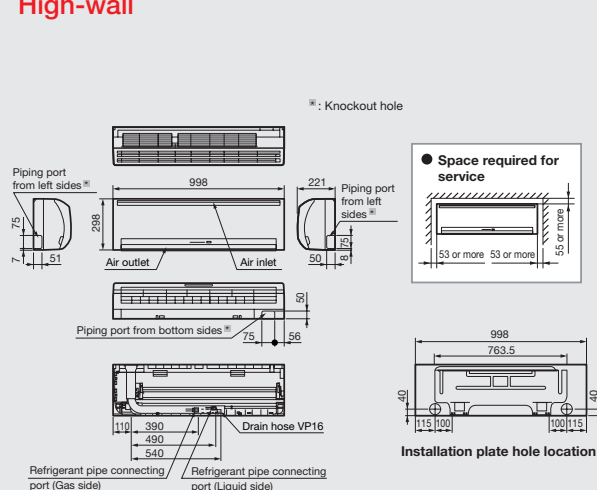
### Duct



### Ceiling



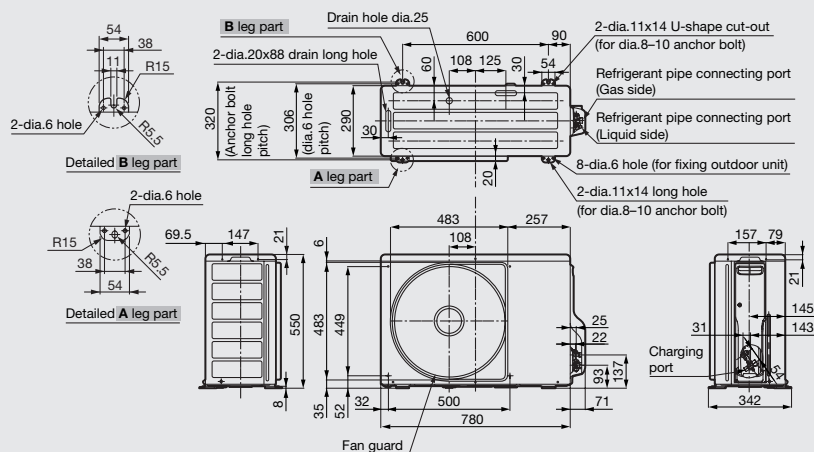
### High-wall



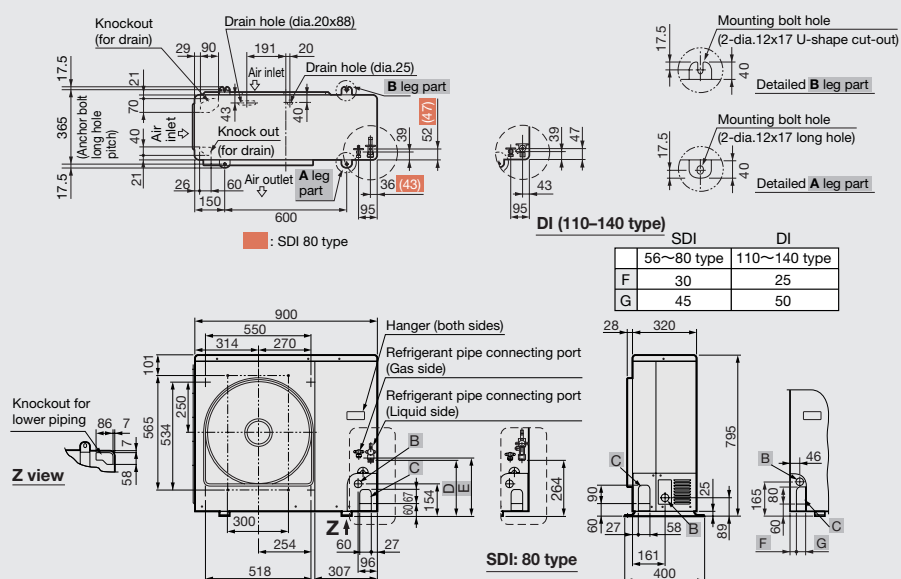
## Outdoor units

Unit: mm

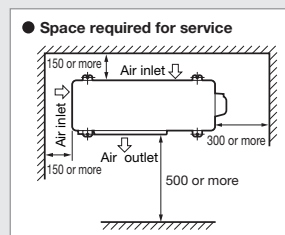
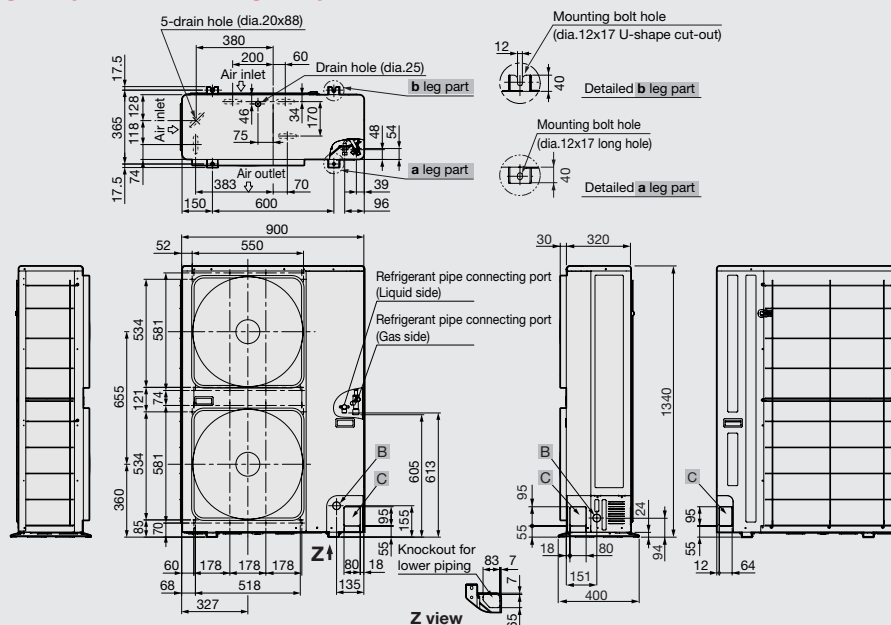
## RAV-SM563AT-E~RAV-SM803AT-E



## RAV-SP562AT-E~RAV-SP802AT-E, RAV-SM1103AT-E~RAV-SM1403AT-E



## RAV-SP1104AT-E~RAV-SP1404AT-E



SDI / DI		
	Name	56-140 type
B	Power supply wiring hole	dia.38 knockout hole
C	Piping drawing port	

SDI		
	56 type	80 type
D	269	264
F	282	

# TOSHIBA



Notice: Toshiba is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements. All features and specifications are subject to change without prior notice.