

**TOSHIBA**  
AIR CONDITIONING



**SDI**

Inverter Air Conditioning  
for Light Commercial Use





**Cost Saving**



**Comfort**

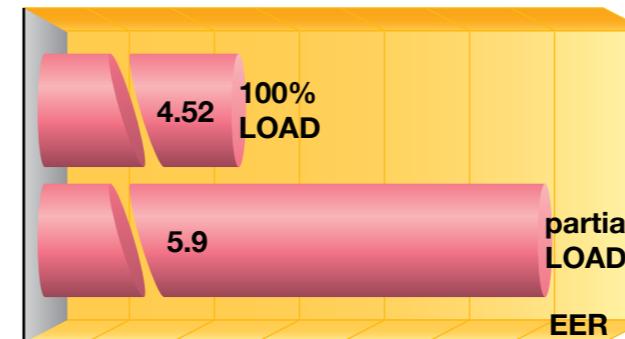


**An efficient use of time**

## SDI Series 4

### Enhanced Energy Efficiency (RAV-SP1104AT-A, RAV-SP1404AT-A)

Has excellent efficiency, not only below 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.



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

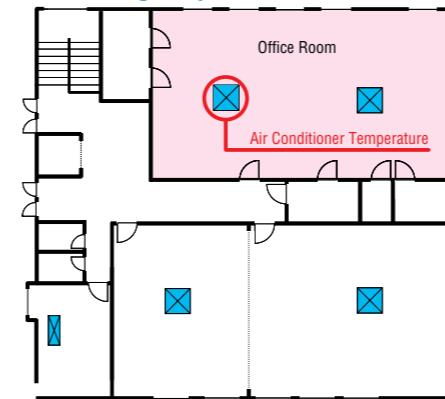


A low minimum speed of 10 rps has been achieved. This has further improved the operating efficiency when the load is low (the minimum in Series 2 was 15 rps).

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.

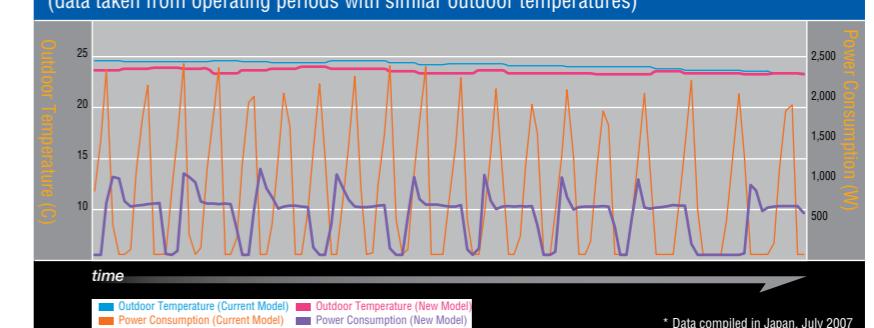
### 10 rps Operation Verification Test

#### 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

single phase

Compact 4-way Cassette Type		RAV-SM564MUT-E	-	-	-
4-way Cassette Type		RAV-SM564UTP-E	RAV-SM804UTP-E	RAV-SM1104UTP-E	RAV-SM1404UTP-E
6 Series Duct Type		RAV-SM566BT-E	RAV-SM806BT-E	RAV-SM1106BT-E	RAV-SM1406BT-E
Ceiling Type		RAV-SM564CT-E	RAV-SM804CT-E	RAV-SM1104CT-E	RAV-SM1404CT-E
Hi-Wall Type		RAV-SM566KRT-A	RAV-SM806KRT-A	-	-

### DI series

single phase

4-way Cassette Type		RAV-SM564UTP-E	RAV-SM804UTP-E	RAV-SM1104UTP-E	RAV-SM1404UTP-E	RAV-SM1604UTP-E
		RAV-SM563AT-A	RAV-SM803AT-A	RAV-SM1103AT-A	RAV-SM1403AT-A	RAV-SM1603AT-A

### SDI series

three phase

4-way Cassette Type		RAV-SM1404UTP-E	RAV-SM1604UTP-E
Ducted Type		RAV-SM1406BT-E	-
Ceiling Type		RAV-SM1404CT-E	-



## Indoor Units



# Compact 4-way Cassette Type



**Model**

RAV-SM564MUT-E

**Panel**

RBC-UM11PG(W)-E

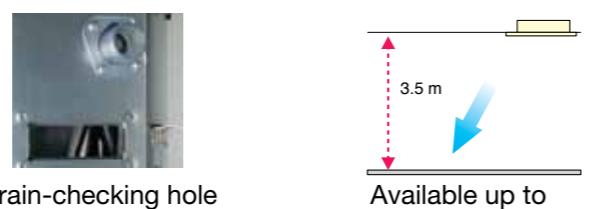


## Perfect for grid system ceiling

1. This compact unit (575mm x 575mm) 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 louvers 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 from base of FCU.
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.



**Comfort**



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



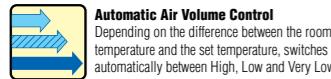
**Long-life Filter**  
Built-in long-life filter makes maintenance easier.



**Auto-turn Louvres**  
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".



**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.)

**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.



## COMPACT 4 WAY CASSETTE TYPE – SINGLE PHASE

Indoor			RAV-SM564MUT-E
Outdoor			RAV-SP564ATP-A
Refrigerant Type			R410A
Power Supply		Volts-Phase-Hz	220-240V/1/50Hz
Cooling	Capacity - Rated	kW	4.7
	Capacity - Range (min ~ max)	kW	1.2~5.6
	Efficiency (rated)	EER	3.38
	Power Input (min ~ rated ~ max)	kW	0.21~1.39~2.29
	Operating Current (rated)	A	6.45 (220V)
Heating	Capacity - Rated	kW	5.6
	Capacity - Range (min ~ max)	kW	0.9~7.4
	Efficiency (rated)	COP	3.64
	Power Input (min ~ rated ~ max)	kW	0.17~1.54~2.37
	Operating Current (rated)	A	6.45
Indoor	Dimension (HxWxD)	mm	268x575x575
Unit	Net Weight	kg	16
	Airflow Volume (h/l)	L/s	221.7/151.7
	Heating Airflow Volume (h/L)	L/s	221.7/151.7
	Moisture Removal (Cooling)	L/hr	-
	Fan Motor Output	W	60
	Sound Pressure(H/M/L) at 1m distance	dBA	43/39/34
	Sound Power(H/M/L)	dBA	58/54/49
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	43/39/34
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	58/54/49
	Cooling Usable Temperature Range	OC	21-32
	Heating Usable Temperature Range	OC	15-24
Outdoor	Dimension (HxWxD)	mm	550x780x290
Unit	Net Weight	kg	44
	Compressor Type		DC Twin Rotary
	Fan Motor Output	W	43
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	47
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64
	Cooling Usable Temperature Range	OC	-15~43
	Heating Usable Temperature Range	OC	-20~15
Pipe Size	Liquid Line Ø	mm	6.4
	Gas Line Ø	mm	12.7
	Coupler Style		flare connection
	Maximum Length	m	50
	Chargeless Length	m	20
	Maximum Height Difference	m	30

# 4-way Cassette Type



## Models

RAV-SM564UTP-E  
RAV-SM804UTP-E  
RAV-SM1104UTP-E  
RAV-SM1404UTP-E  
RAV-SM1604UTP-E

## Panels

RBC-U31PG(W)-E  
RBC-U31PGP(W)-E

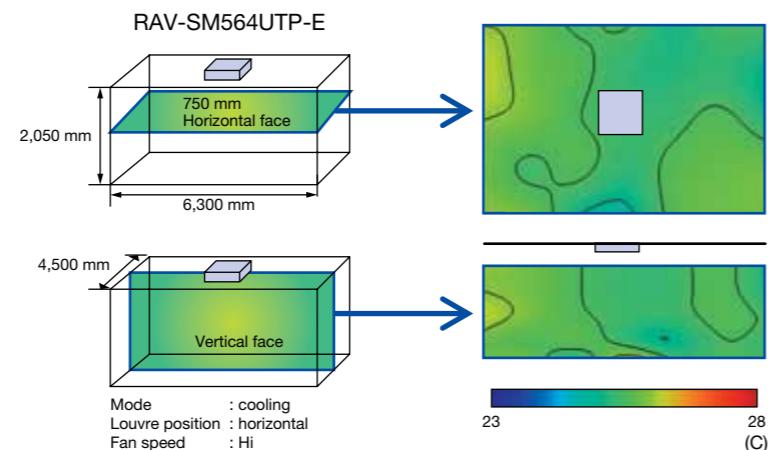


## Wireless remote controller kit (optional)

RBC-AX31U(W)-E



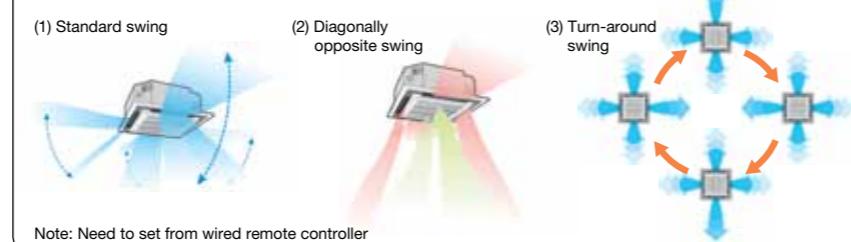
### Temperature conditioning



### 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



### Easy installation

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



## 4 WAY CASSETTE TYPE SUPER DIGITAL INVERTER – SINGLE PHASE

Indoor	RAV-SM564UTP-E	RAV-SM804UTP-E	RAV-SM1104UTP-E	RAV-SM1404UTP-E
Outdoor	RAV-SP564ATP-A	RAV-SP804ATP-A	RAV-SP1104AT-A	RAV-SP1404AT-A
Refrigerant Type	R410A	R410A	R410A	R410A
Power Supply	Volts-Phase-Hz	220-240V - 1 - 50Hz	220-240V - 1 - 50Hz	220/240V - 1 - 50Hz
Cooling	Capacity - Rated	kW	5.3	7.1
	Capacity - Range (min ~ max)	kW	1.2~ 5.6	1.9~ 8.0
	Efficiency (rated)	EER	3.61	3.82
	Power Input (min ~ rated ~ max)	kW	0.20~ 1.47~1.95	0.30~ 1.86~2.52
	Operating Current (rated)	A	6.82 (220V)	8.72 (220V)
Heating	Capacity - Rated	kW	5.6	8.0
	Capacity - Range (min ~ max)	kW	0.9~ 8.1	1.3~11.3
	Efficiency (rated)	COP	4.63	4.19
	Power Input (min ~ rated ~ max)	kW	0.15~ 1.21~2.4	0.25~ 1.91~3.52
	Operating Current (rated)	A	6.82	8.72
Indoor	Dimension (HxWxD)	mm	256x840x840	256x840x840
Unit	Net Weight	kg	20	20
	Airflow Volume (h/L)	L/s	291.7/216.7	341.7/225.0
	Heating Airflow Volume (h/L)	L/s	291.7/216.7	341.7/225.0
	Fan Motor Output	W	14	20
	Sound Pressure(H/M/L) at 1m distance	dBA	32/29/28	35/31/28
	Sound Power(H/M/L)	dBA	47/44/43	50/46/43
Outdoor	Dimension (HxWxD)	mm	550x780x290	890x900x320
Unit	Net Weight	kg	44	66
	Compressor Type		DC Twin Rotary	DC Twin Rotary
	Fan Motor Output	W	43	63
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	47	48
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	64
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	49
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64	65
	Cooling Usable Temperature Range	OC	-15~43	-15~43
	Heating Usable Temperature Range	OC	-20~15	-20~15
Pipe Size	Liquid Line Ø	mm	6.4	9.5
	Gas Line Ø	mm	12.7	15.9
	Coupler Style		flare connection	flare connection
	Drain (Inside Diameter) Ø	mm	VP25	VP25
	Maximum Length	m	50	50
	Chargeless Length	m	20	30
	Maximum Height Difference	m	30	30

## Comfort

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

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

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

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

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

**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 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".

**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.)

## 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.

**Automatic dehumidification**  
Gradually dehumidifies the room to create even greater comfort.



**4 WAY CASSETTE TYPE SUPER DIGITAL INVERTER – 3 PHASE**

Indoor		RAV-SM1404UTP-E	RAV-SM1604UTP-E
Outdoor		RAV-SP1404AT8-A	RAV-SP1604AT8-A
Refrigerant Type		R410A	R410A
Power Supply		Volts-Phase-Hz	380-415V /3φ/50Hz
Cooling	Capacity - Rated	kW	12.5
	Capacity - Range (min ~ max)	kW	2.6-14.0
	Efficiency (rated)	EER	3.61
	Power Input (min ~ rated ~ max)	kW	0.66-3.46-4.40
	Operating Current (rated)	A	6.03
Heating	Capacity - Rated	kW	14
	Capacity - Range (min ~ max)	kW	2.4-18.0
	Efficiency (rated)	COP	4.09
	Power Input (min ~ rated ~ max)	kW	0.53-3.42-5.50
	Operating Current (rated)	A	6.03
Indoor	Dimension (HxWxD)	mm	319x840x840
Unit	Net Weight	kg	24
	Airflow Volume (H)	L/s	583
	Heating Airflow Volume (H/L)	L/s	583
	Fan Motor Output	W	72
	Sound Pressure(H/L) at 1m distance	dBA	44/34
	Sound Power(H/L)	dBA	59/49
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	44/34
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	59/49
Outdoor	Dimension (HxWxD)	mm	1340x900x320
Unit	Net Weight	kg	95
	Compressor Type		DC twin rotary
	Fan Motor Output	W	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	52
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	69
	Cooling Usable Temperature Range	DB°C	-15/+46
	Heating Usable Temperature Range	WB°C	-20/+15
Pipe Size	Liquid Line Ø	mm	9.5
	Gas Line Ø	mm	15.9
	Coupler Style		flare connection
	Maximum Length	m	75
	Chargeless Length	m	30
	Maximum Height Difference	m	30

**4 WAY CASSETTE TYPE DIGITAL INVERTER – SINGLE PHASE**

Indoor		RAV-SM564UTP-E	RAV-SM804UTP-E	RAV-SM1104UTP-E	RAV-SM1404UTP-E	RAV-SM1604UTP-E
Outdoor		RAV-SM563AT-A	RAV-SM803AT-A	RAV-SM1103AT-A	RAV-SM1403AT-A	RAV-SM1603AT-A
Refrigerant Type		R410A	R410A	R410A	R410A	R410A
Power Supply		Volts-Phase-Hz	220/240V - 1 - 50Hz			
Cooling	Capacity - Rated	kW	5.3	6.2	10	11.2
	Capacity - Range (min ~ max)	kW	1.5~ 5.6	1.5~ 8.0	3.0~ 11.2	3.0~ 13.2
	Efficiency (rated)	EER	3.21	3.37	3.22	3.34
	Power Input (min ~ rated ~ max)	kW	0.35~ 1.65 ~1.86	0.45~ 1.84 ~2.60	0.60~ 3.11 ~4.10	0.65~ 3.35 ~4.50
	Operating Current (rated)	A	7.89 (220V)	8.90 (220V)	14.42 (220V)	15.70 (220V)
Heating	Capacity - Rated	kW	5.6	8	11.2	14
	Capacity - Range (min ~ max)	kW	1.5~ 6.3	1.5~9.0	3.0~ 13.0	3.0~ 16.0
	Efficiency (rated)	COP	3.89	3.62	3.82	3.68
	Power Input (min ~ rated ~ max)	kW	0.35~ 1.44 ~2.08	0.45~ 2.21~3.03	0.60~ 2.93 ~4.30	0.65~ 3.80 ~4.50
	Operating Current (rated)	A	6.89 (220V)	10.65 (220V)	13.59 (220V)	17.81 (220V)
Indoor	Dimension (HxWxD)	mm	256x840x840	256x840x840	319x840x840	319x840x840
Unit	Net Weight	kg	20	20	24	24
	Airflow Volume (H)	L/s	291.7/216.7	341.7/225.0	558.4/325.1	583.5/341.7
	Heating Airflow Volume (H/L)	L/s	291.7/216.7	341.7/225.0	558.4/325.1	583.5/341.7
	Fan Motor Output	W	14	20	68	72
	Sound Pressure(H/L) at 1m distance	dBA	32/29/28	35/31/28	43/38/33	44/38/34
	Sound Power(H/L)	dBA	47/44/43	50/46/43	58/53/48	59/53/49
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	32/29/28	35/31/28	43/38/33	44/38/34
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	47/44/43	50/46/43	58/53/48	59/53/49
Outdoor	Dimension (HxWxD)	mm	550x780x290	795x900x320	795x900x320	1340x900x320
Unit	Net Weight	kg	44	63	93	99
	Compressor Type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
	Fan Motor Output	W	43	63	100+100	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	46	48	53	54
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	65	70	71
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	50	54	54
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	65	67	71	71
	Cooling Usable Temperature Range	DB°C	-15/43	-15/43	-15/43	-15/43
	Heating Usable Temperature Range	WB°C	-15/15	-15/15	-15/15	-15/15
Pipe Size	Liquid Line Ø	mm	6.4	9.5	9.5	9.5
	Gas Line Ø	mm	12.7	15.9	15.9	15.9
	Coupler Style		Flaring	Flaring	Flaring	Flaring
	Drain (Inside Diameter) Ø	mm	VP25	VP25	VP25	VP25
	Maximum Length	m	50	50	50	50
	Chargeless Length	m	20	30	30	30
	Maximum Height Difference	m	30	30	30	30

## 4 WAY CASSETTE TYPE – TWIN

Indoor	RAV-SM804UTP-E x 2
Outdoor	RAV-SM1403AT-A
Refrigerant Type	R410A
Power Supply	220/240V - 1 - 50Hz
Cooling	Capacity - Rated
	kW
	11.2
	Capacity - Range (min ~ max)
	kW
	3.0~ 13.2
	Efficiency (rated)
	EER
	3.34
	Power Input (min ~ rated ~ max)
	kW
	0.65~ 3.35~ 4.50
	Operating Current (rated)
	A
	15.70 (220V)
Heating	Capacity - Rated
	kW
	14.0
	Capacity - Range (min ~ max)
	kW
	3.0~ 16.0
	Efficiency (rated)
	COP
	3.68
	Power Input (min ~ rated ~ max)
	kW
	0.65~ 3.80~ 4.50
	Operating Current (rated)
	A
	17.81 (°C220V)
Indoor	Dimension (HxWxD)
	mm
	320x1350x800
Unit	Net Weight
	kg
	54
	Airflow Volume (H/L)
	L/s
	550.1/385.1
	Heating Airflow Volume (H/L)
	L/s
	550.1/385.1
	Fan Motor Output
	W
	120
	Sound Pressure(HM/L) at 1m distance
	dBA
	35/31/28
	Sound Power(H/M/L)
	dBA
	50/46/43
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance
	dBA (@spl)
	35/31/28
	Heating Operating Noise (Sound Power) (H/L)
	dBA (@swl)
	50/46/43
Outdoor	Dimension (HxWxD)
	mm
	795x900x320
Unit	Net Weight
	kg
	77
	Compressor Type
	DC Twin Rotary
	Fan Motor Output
	W
	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance
	dBA (@spl)
	54
	Cooling Operating Noise (Sound Power) (H)
	dBA (@swl)
	71
	Heating Operating Noise (Sound Pressure) (H) at 1m distance
	dBA (@spl)
	54
	Heating Operating Noise (Sound Power) (H)
	dBA (@swl)
	71
	Cooling Usable Temperature Range
	DB°C
	-15/43
	Heating Usable Temperature Range
	WB°C
	-15/15
Pipe Size	Liquid Line Ø
	mm
	9.5
	Gas Line Ø
	mm
	15.9
	Coupler Style
	Flaring
	Drain (Inside Diameter) Ø
	mm
	VP25
	Maximum Length
	m
	50
	Chargeless Length
	m
	30
	Maximum Height Difference
	m
	30

## Versatile and Clever Duct Type

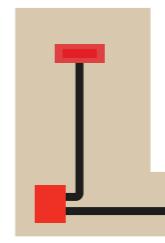


### Models

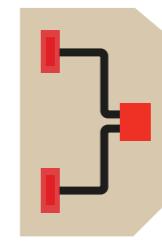
RAV-SM566BT-E  
RAV-SM806BT-E  
RAV-SM1106BT-E  
RAV-SM1406BT-E

### Wide range of applications

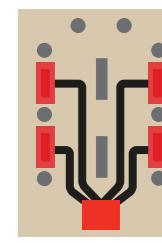
The use of ducts allows air outlets to be conveniently installed anywhere on the ceiling, eliminating the conspicuous presence of the air conditioner in the center of the room. Not only can this be applied to a wide variety of layouts from narrow spaces to polygonal rooms; it also greatly improves the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



Polygonal rooms



Narrow rooms



Rooms with fixtures and obstacles

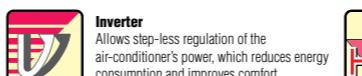
### High static pressure

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.



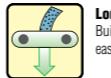
**Hot Start**  
When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



**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.)



## DUCT TYPE – SUPER DIGITAL INVERTER

Indoor		RAV-SM566BT-E	RAV-SM806BT-E	RAV-SM1106BT-E	RAV-SM1406BT-E
Outdoor		RAV-SPP564ATP-A	RAV-SP804ATP-A	RAV-SP1104AT-A	RAV-SP1404AT-A
Refrigerant Type		R410A	R410A	R410A	R410A
Power Supply	Volts-Phase-Hz	220-240V/1/50Hz	220-240V/1/50Hz	220-240V/1/50Hz	220-240V/1/50Hz
Cooling	Capacity - Rated	kW	4.9	7.1	10.0
	Capacity - Range (min ~ max)	kW	1.2-5.6	1.9-8.0	2.6-12.0
	Efficiency (rated)	EER	3.25	3.45	3.79
	Power Input (min ~ rated ~ max)	kW	0.21/1.51/2.05	0.30/2.06/2.88	0.64/2.64/3.80
	Operating Current (rated)	A	7.00	9.65	12.30
Heating	Capacity - Rated	kW	5.6	8.0	11.2
	Capacity - Range (min ~ max)	kW	0.9-7.4	1.3-10.6	2.4-13.0
	Efficiency (rated)	COP	3.61	3.62	4.04
	Power Input (min ~ rated ~ max)	kW	0.17/1.55/2.51	0.27/2.21/3.50	0.52/2.77/4.00
	Operating Current (rated)	A	7.18	10.3	12.90
Indoor Unit	Dimension (HxWxD)	mm	275x700x750	275x1000x750	275x1400x750
	Net Weight	kg	23	30	40
	Airflow Volume (H/L)	l/s	222/133	333/200	583/350
	Heating Airflow Volume (H/L)	l/s	222/133	333/200	583/350
	Fan Motor Output	W	150	150	250
	Sound Pressure(H/L) at 1m distance	dBA	33/29/25	34/30/26	40/36/33
	Sound Power(H/L)	dBA	55/51/46	55/51/46	63/58/54
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	33/29/25	34/30/26	40/36/33
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	55/51/46	55/51/46	63/58/54
Outdoor Unit	Dimension (HxWxD)	mm	550x780x290	890x900x320	1340x900x320
	Net Weight	kg	44	66	93
	Compressor Type		DC Twin Rotary	DC Twin Rotary	DC twin rotary
	Fan Motor Output	W	43	63	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	47	48	49
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	64	66
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	49	50
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64	65	67
	Cooling Usable Temperature Range	OC	-15~43	-15~43	-15/+43
	Heating Usable Temperature Range	OC	-20~15	-20~15	-20/+15
Pipe Size	Liquid Line Ø	mm	6.4	9.5	9.5
	Gas Line Ø	mm	12.7	15.9	15.9
	Coupler Style		flare connection	flare connection	flare connection
	Maximum Length	m	50	50	75
	Chargeless Length	m	20	30	30
	Maximum Height Difference	m	30	30	30

## DUCT TYPE – 3 PHASE SYSTEM

Indoor		RAV-SM1406BT-E
Outdoor		RAV-SP1404AT8-A
Refrigerant Type		R410A
Power Supply	Volts-Phase-Hz	380-415V /3/50Hz
Cooling	Capacity - Rated	kW
	Capacity - Range (min ~ max)	kW
	Efficiency (rated)	EER
	Power Input (min ~ rated ~ max)	kW
	Operating Current (rated)	A
Heating	Capacity - Rated	kW
	Capacity - Range (min ~ max)	kW
	Efficiency (rated)	COP
	Power Input (min ~ rated ~ max)	kW
	Operating Current (rated)	A
Indoor Unit	Dimension (HxWxD)	mm
	Net Weight	kg
	Airflow Volume (H)	l/s
	Heating Airflow Volume (H/L)	l/s
	Fan Motor Output	W
	Sound Pressure(H/L) at 1m distance	dBA
	Sound Power(H/L)	dBA
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)
Outdoor Unit	Dimension (HxWxD)	mm
	Net Weight	kg
	Compressor Type	
	Fan Motor Output	W
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)
	Cooling Usable Temperature Range	DB°C
	Heating Usable Temperature Range	WB°C
Pipe Size	Liquid Line Ø	mm
	Gas Line Ø	mm
	Coupler Style	
	Maximum Length	m
	Chargeless Length	m
	Maximum Height Difference	m

## Quiet and Comfortable Ceiling Type



### Models

RAV-SM564CT-E  
RAV-SM804CT-E  
RAV-SM1104CT-E  
RAV-SM1404CT-E

### Wireless remote controller kit

RBC-AX22CE2



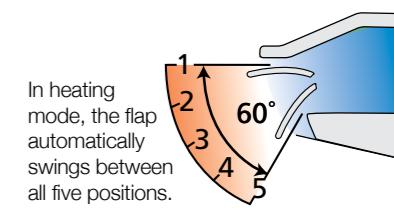
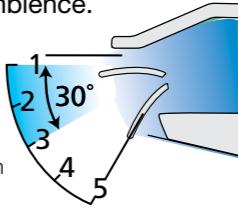
### Comfortable ambience

#### Very quiet operation

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

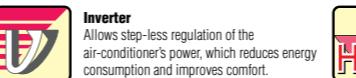
The airflow angle is automatically set to the most suitable setting according to your cooling or heating needs, and an automatic swing mode enables airflow to reach all areas of the room to create a comfortable ambience.



### Installation efficiency

Suspending the unit from the ceiling saves the complex installation procedures. It can be suspended simply by adjusting two screws on the intake grill. Compared to 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.



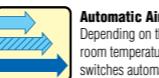
**Hot Start**  
When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



**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.



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



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



**CEILING TYPE – SUPER DIGITAL INVERTER**

Indoor		RAV-SM564CT-E	RAV-SM804CT-E	RAV-SM1104CT-E	RAV-SM1404CT-E
Outdoor		RAV-SP564ATP-A	RAV-SP804ATP-A	RAV-SP1104AT-A	RAV-SP1404AT-A
Refrigerant Type		R410A	R410A	R410A	R410A
Power Supply	Volts-Phase-Hz	220-240V/1/50Hz	220-240V/1/50Hz	220-240V -1/50Hz	220-240V -1/50Hz
Cooling	Capacity - Rated	kW	4.7	6.6	10.0
	Capacity - Range (min ~ max)	kW	1.2~ 5.6	1.9~ 8.0	2.6~ 12.0
	Efficiency (rated)	EER	3.38	3.46	3.75
	Power Input (min ~ rated ~ max)	kW	0.21~ 1.39 ~2.26	0.30~ 1.91 ~2.88	0.64~ 2.67 ~3.70
	Operating Current (rated)	A	6.45	8.95	12.51
Heating	Capacity - Rated	kW	5.6	8.0	11.2
	Capacity - Range (min ~ max)	kW	0.9~ 7.4	1.3~10.6	2.4~ 13.0
	Efficiency (rated)	COP	3.81	3.70	4.27
	Power Input (min ~ rated ~ max)	kW	0.17~ 1.47 ~2.34	0.27~ 2.16~3.50	0.52~ 2.62 ~4.00
	Operating Current (rated)	A	6.45	8.95	12.28
Indoor	Dimension (HxWxD)	mm	210x910x680	210x1180x680	210x1595x680
Unit	Net Weight	kg	21	25	33
	Airflow Volume (h/l)	L/s	216.7/166.7	308.4/243.4	458.4/353.4
	Heating Airflow Volume (H/L)	L/s	216.7/166.7	308.4/243.4	458.4/353.4
	Fan Motor Output	W	60	60	120
	Sound Pressure(H/M/L) at 1m distance	dBA	36/33/30	38/36/33	41/38/35
	Sound Power(H/M/L)	dBA	51/48/45	53/51/48	56/53/50
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	36/33/30	38/36/33	41/38/35
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	51/48/45	53/51/48	56/53/50
Outdoor	Dimension (HxWxD)	mm	550x780x290	890x900x320	1340x900x320
Unit	Net Weight	kg	44	66	93
	Compressor Type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
	Fan Motor Output	W	43	63	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	47	48	49
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	64	66
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	49	50
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64	65	67
	Cooling Usable Temperature Range	OC	-15~43	-15~43	-15/43
	Heating Usable Temperature Range	OC	-20~15	-20~15	-20/15
Pipe Size	Liquid Line Ø	mm	6.4	9.5	9.5
	Gas Line Ø	mm	12.7	15.9	15.9
	Coupler Style		flare connection	flare connection	Flaring
	Drain (Inside Diameter) Ø	mm	VP25	VP25	VP25
	Maximum Length	m	50	50	75
	Chargeless Length	m	20	30	30
	Maximum Height Difference	m	30	30	30

**CEILING TYPE – 3 PHASE SYSTEM**

Indoor			RAV-SM1404CT-E
Outdoor			RAV-SP1404AT8-A
Refrigerant Type			R410A
Power Supply	Volts-Phase-Hz		380-415V /3p/50Hz
Cooling	Capacity - Rated	kW	12.5
	Capacity - Range (min ~ max)	kW	2.6~14.0
	Efficiency (rated)	EER	3.26
	Power Input (min ~ rated ~ max)	kW	0.66~3.83~4.85
	Operating Current (rated)	A	6.67
Heating	Capacity - Rated	kW	14.0
	Capacity - Range (min ~ max)	kW	2.4~18.0
	Efficiency (rated)	COP	3.78
	Star Rating		6.46
	Power Input (min ~ rated ~ max)	kW	0.53~3.70~5.95
	Operating Current (rated)	A	6.67
Indoor	Dimension (HxWxD)	mm	210x1595x680
Unit	Net Weight	kg	33
	Airflow Volume (H)	L/s	500
	Heating Airflow Volume (H)	L/s	500
	Fan Motor Output	W	120
	Sound Pressure(H) at 1m distance	dBA	43/37
	Sound Power(H)	dBA	58/52
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	43/37
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	58/52
Outdoor	Dimension (HxWxD)	mm	1340x900x320
Unit	Net Weight	kg	95
	Compressor Type		DC twin rotary
	Fan Motor Output	W	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	52
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	69
	Cooling Usable Temperature Range	DB°C	-15/+46
	Heating Usable Temperature Range	WB°C	-20/+15
Pipe Size	Liquid Line Ø	mm	9.5
	Gas Line Ø	mm	15.9
	Coupler Style		flare connection
	Maximum Length	m	75
	Chargeless Length	m	30
	Maximum Height Difference	m	30

# Hi-Wall Type



## Models

RAV-SM566KRT-A  
RAV-SM806KRT-A

## Features

With its attractive, slimline 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 Hi-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 + Gingko 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.

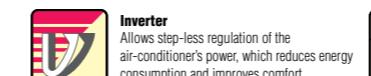
## HI-WALL TYPE - TWIN

Indoor	Outdoor	RAV-SM806KRT x 2
Refrigerant Type		RAV-SP1404AT-A
Power Supply	Volts-Phase-Hz	220/240V - 1 - 50Hz
Cooling	Capacity - Rated	kW
	Capacity - Range (min ~ max)	kW
	Efficiency (rated)	EER
	Power Input (min ~ rated ~ max)	kW
	Operating Current (rated)	A
Heating	Capacity - Rated	kW
	Capacity - Range (min ~ max)	kW
	Efficiency (rated)	COP
	Star Rating	
Indoor	Dimension (HxWxD)	mm
Unit	Net Weight	kg
	Airflow Volume (H/L)	L/s
	Fan Motor Output	W
	Sound Pressure(H/M/L) at 1m distance	dBA
	Sound Power(H/M/L)	dBA
Outdoor	Dimension (HxWxD)	mm
Unit	Net Weight	kg
	Compressor Type	DC Twin Rotary
	Fan Motor Output	W
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)
	Cooling Usable Temperature Range	OC
	Heating Usable Temperature Range	OC
Pipe Size	Liquid Line Ø	mm
	Gas Line Ø	mm
	Coupler Style	flare connetion
	Drain (Inside Diameter) Ø	mm
	Maximum Length	m
	Chargeless Length	m
	Maximum Height Difference	m

## HI-WALL TYPE - SUPER DIGITAL INVERTER

Indoor	Outdoor	RAV-SM566KRT-A	RAV-SM806KRT-A
Refrigerant Type		RAV-SP564ATP-A	RAV-SP804ATP-A
Power Supply	Volts-Phase-Hz	220-240V/1/50Hz	220-240V/1/50Hz
Cooling	Capacity - Rated	kW	5.0
	Capacity - Range (min ~ max)	kW	1.2 - 5.6
	Efficiency (rated)	EER	3.47
	Star Rating		2.0
	Power Input (min ~ rated ~ max)	kW	0.21 ~ 1.44 ~ 2.05
	Operating Current (rated)	A	3.47
Heating	Capacity - Rated	kW	5.6
	Capacity - Range (min ~ max)	kW	0.9 - 7.3
	Efficiency (rated)	COP	3.73
	Star Rating		2.5
	Power Input (min ~ rated ~ max)	kW	0.17 ~ 1.50 ~ 2.57
	Operating Current (rated)	A	6.98 (220V)
Indoor	Dimension (HxWxD)	mm	320x1050x228
Unit	Net Weight	kg	12
	Airflow Volume (H/L)	L/s	233/183
	Heating Airflow Volume (H/L)	L/s	233/183
	Fan Motor Output	W	30
	Sound Pressure(H/M/L) at 1m distance	dBA	42 / 39 / 36
	Sound Power(H/M/L)	dBA	57 / 54 / 51
	Heating Operating Noise (Sound Pressure) (H/M/L) at 1m distance	dBA (@spl)	42 / 39 / 36
	Heating Operating Noise (Sound Power) (H/M/L)	dBA (@swl)	57 / 54 / 51
	Cooling Usable Temperature Range	OC	21-32
	Heating Usable Temperature Range	OC	15-24
Outdoor	Dimension (HxWxD)	mm	550x780x290
Unit	Net Weight	kg	44
	Compressor Type	DC Twin Rotary	DC Twin Rotary
	Fan Motor Output	W	43
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	47
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64
	Cooling Usable Temperature Range	OC	-15-43
	Heating Usable Temperature Range	OC	-20-15
Pipe Size	Liquid Line Ø	mm	6.4
	Gas Line Ø	mm	12.7
	Coupler Style	flare connetion	flare connetion
	Drain (Inside Diameter) Ø	mm	VP16
	Maximum Length	m	50
	Chargeless Length	m	20
	Maximum Height Difference	m	30

### 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.



**On/Off Timer**  
The operation start and stop times can be set with a digital clock.



**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



**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

## Remote Controllers

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

	Wired remote controller	Wired controller with weekly timer	Backlit wired controller
Appearance			
Model name	RBC-AMT32E	RBC-AMS41E	RBC-AMS51E-EN
Wireless remote controller kits			
Appearance	Integral receiver	Integral receiver	Standalone receiver
Model name	RBC-AX31U(W)-E	RBC-AX22CE2	TCB-AX32E2
Remarks	For 4-way cassette type (Series 4)	For over ceiling type (Series 2)	

## 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-A, RAV-SP1404AT-A)

⇒ 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



### Compatible with pipes up to 75 metres long

(RAV-SP1104AT-A, RAV-SP1404AT-A)

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



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

## Combinations

	Wired			Wireless	
	RBC-AMT32E	RBC-AMS41E	RBC-AMS51E-EN	RBC-AX22CE2	TCB-AX32E2
Compact 4-way Series 2	RAV-SM564MUT-E	OK	OK	OK	OK
4-way Cassette Series 4	RAV-SM564UTP-E	OK	OK	OK	OK
	RAV-SM804UTP-E	OK	OK	OK	OK
	RAV-SM1104UTP-E	OK	OK	OK	OK
	RAV-SM1404UTP-E	OK	OK	OK	OK
	RAV-SM1604UTP-E	OK	OK	OK	OK
Duct Series 4	RAV-SM566BT-E	OK	OK	OK	OK
	RAV-SM806BT-E	OK	OK	OK	OK
	RAV-SM1106BT-E	OK	OK	OK	OK
	RAV-SM1406BT-E	OK	OK	OK	OK
Ceiling Series 4	RAV-SM564CT-E	OK	OK	OK	OK
	RAV-SM804CT-E	OK	OK	OK	OK
	RAV-SM1104CT-E	OK	OK	OK	OK
	RAV-SM1404CT-E	OK	OK	OK	OK
High-wall Series 4	RAV-SM566KRT-A	OK	OK	OK	OK
	RAV-SM806KRT-A	OK	OK	OK	OK

## DI Digital Inverter



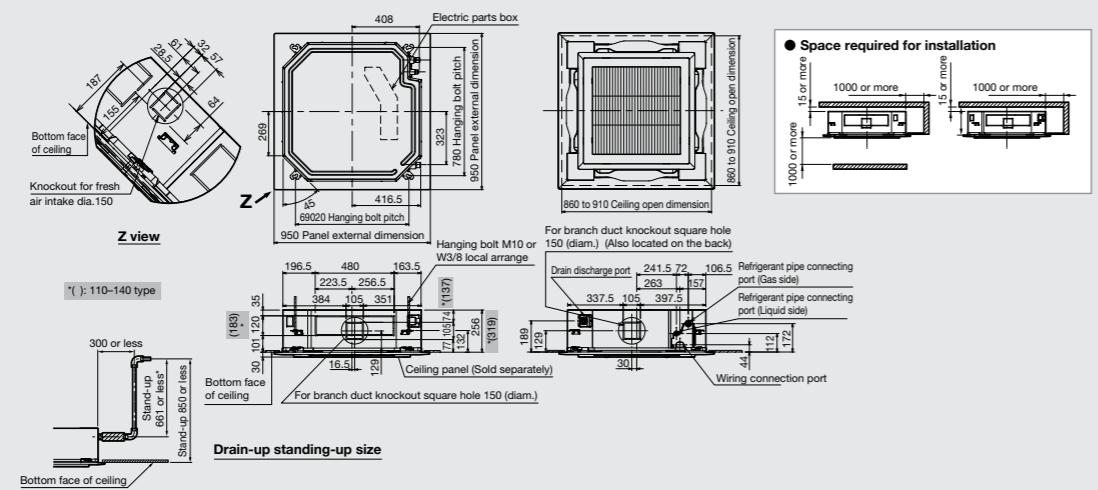
### Lightweight and compact outdoor unit

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

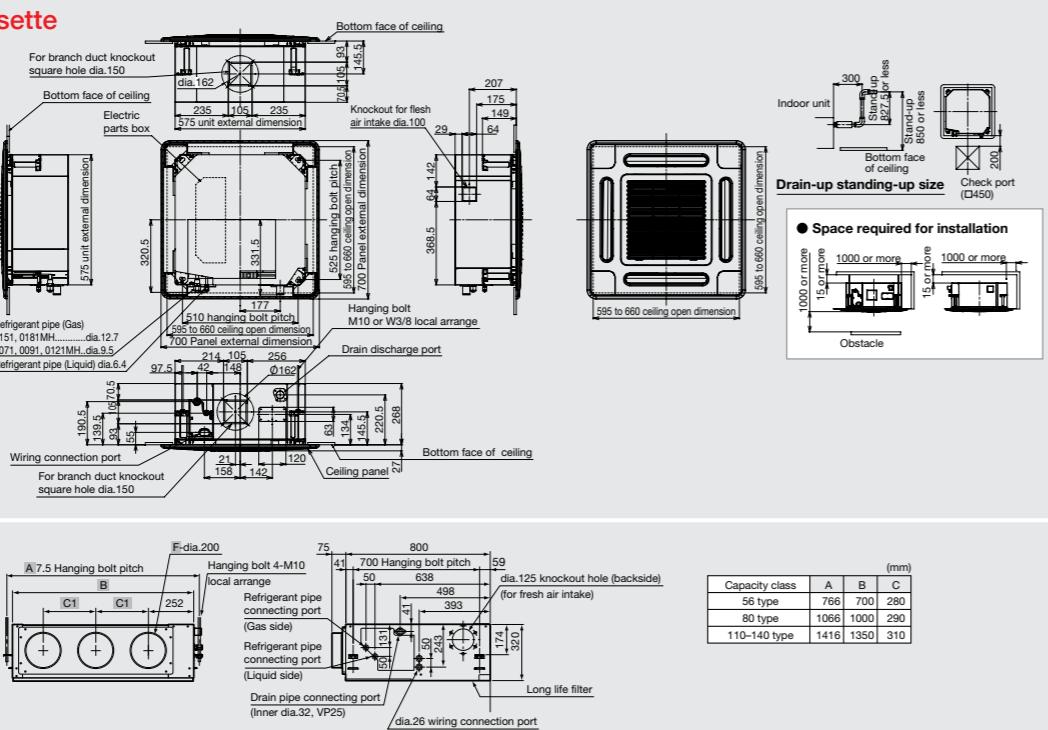


## Indoor units

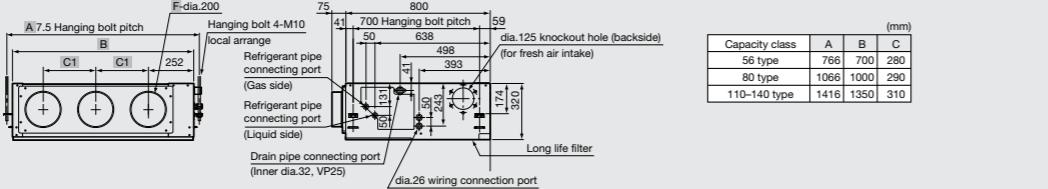
### 4-way cassette



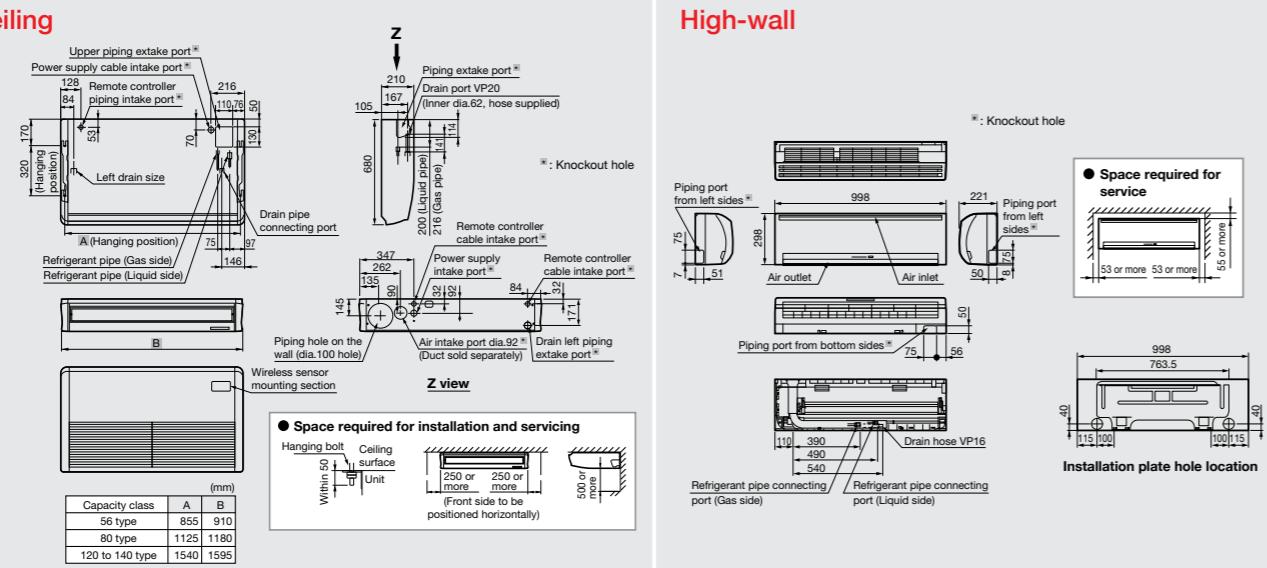
### Compact 4-way cassette



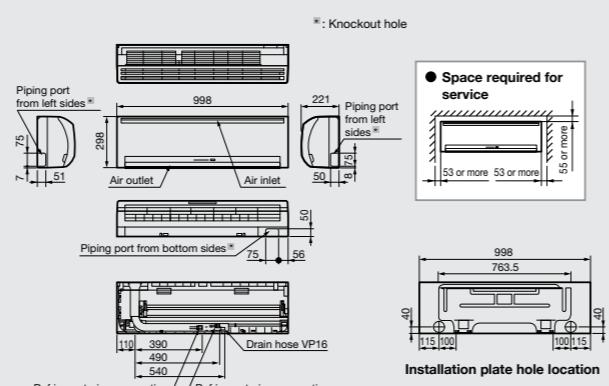
### Duct



### Ceiling

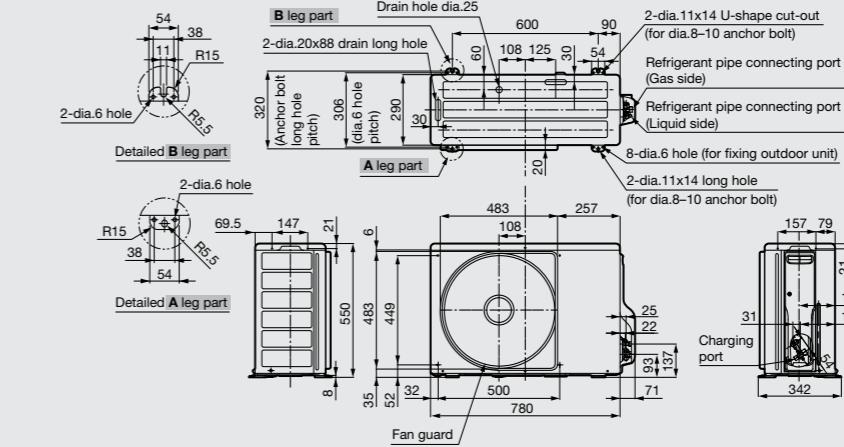


### High-wall

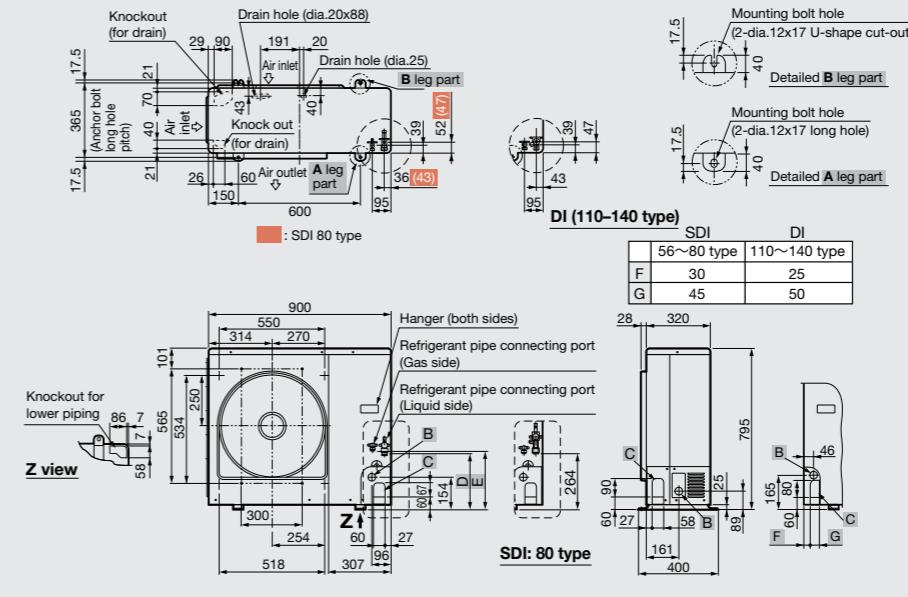


## Outdoor units

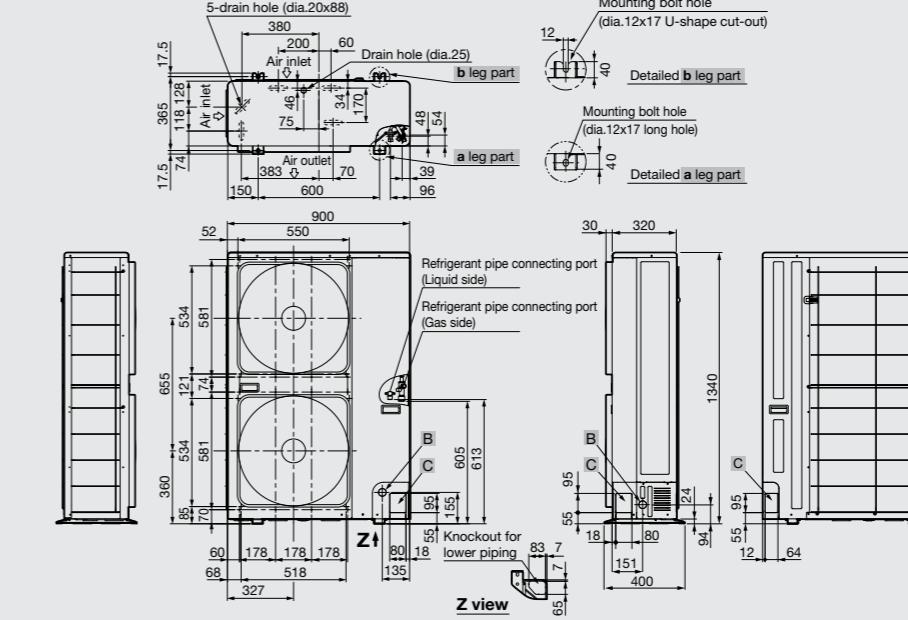
### RAV-SM563AT-A~RAV-SM803AT-A



### RAV-SP564ATP-A~RAV-SP804ATP-A, RAV-SM1103AT-A~RAV-SM1403AT-A



### RAV-SP1104AT-A~RAV-SP1404AT-A



Unit: mm



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Notice: Toshiba is committed to continuously improving its product 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.

Note: All images provided in this catalogue are used for illustration purposes only.

Date: September 2013

Equipment rates in accordance with MEPS 3823.2-2011 E&OE

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