

TOSHIBA

AIR CONDITIONING



SDI
SDI

Inverter Air Conditioning
for Light Commercial Use



Cost Saving

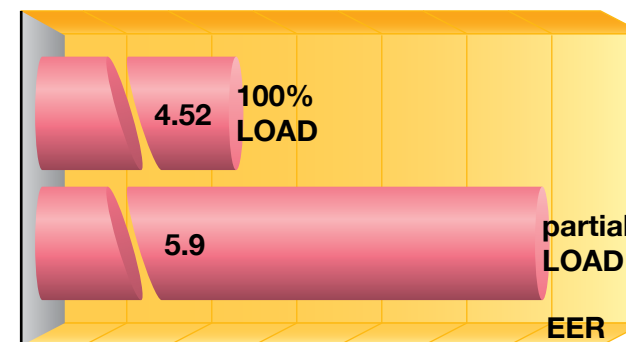
Comfort

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



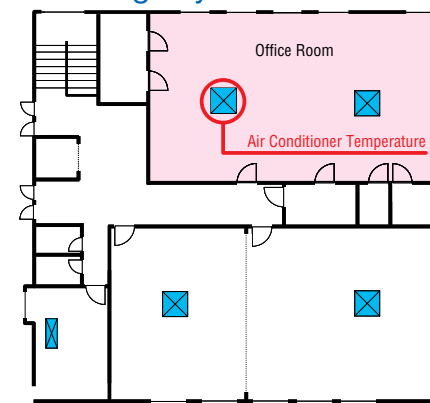
A low minimum speed of 10 rps has been achieved. This has further improved the operating efficiency when the load is low (the minimum in Series 2 was 15 rps).



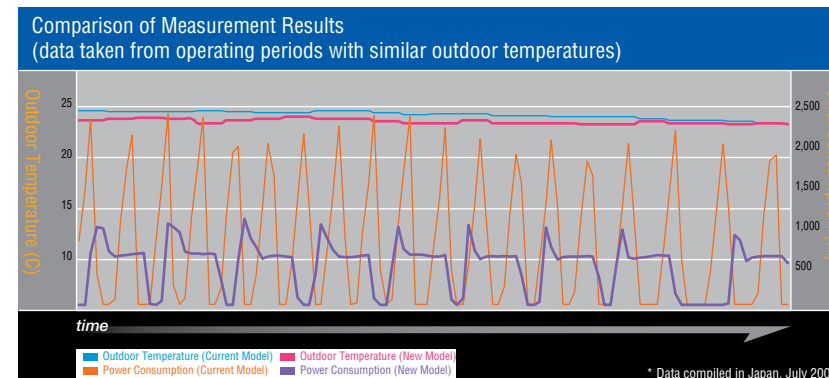
The structure and shape of each compressor component has been optimised. The area of the rotor magnet has been increased and a slit introduced to the design. These improvements have further enhanced efficiency and reduced noise.

10 rps Operation Verification Test

Building Layout







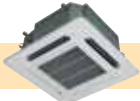




To compare operating efficiency under low load operating conditions, field tests were performed where the outdoor temperature was approximately 24°C. This is about the same as when the air conditioning is set to room temperature. Measurements were taken that demonstrated that the energy consumption of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




* Data compiled in Japan, July 2007

Line up


SDI series single phase

				
	RAV-SP564ATP-A	RAV-SP804ATP-A	RAV-SP1104AT-A	RAV-SP1404AT-A
Compact 4-way Cassette Type		RAV-SM564MUT-E	-	-
4-way Cassette Type		RAV-SM564UTP-E	RAV-SM804UTP-E	RAV-SM1104UTP-E
6 Series Duct Type		RAV-SM566BT-E	RAV-SM806BT-E	RAV-SM1106BT-E
Ceiling Type		RAV-SM564CT-E	RAV-SM804CT-E	RAV-SM1104CT-E
Hi-Wall Type		RAV-SM566KRT-A	RAV-SM806KRT-A	-

DI series single phase

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

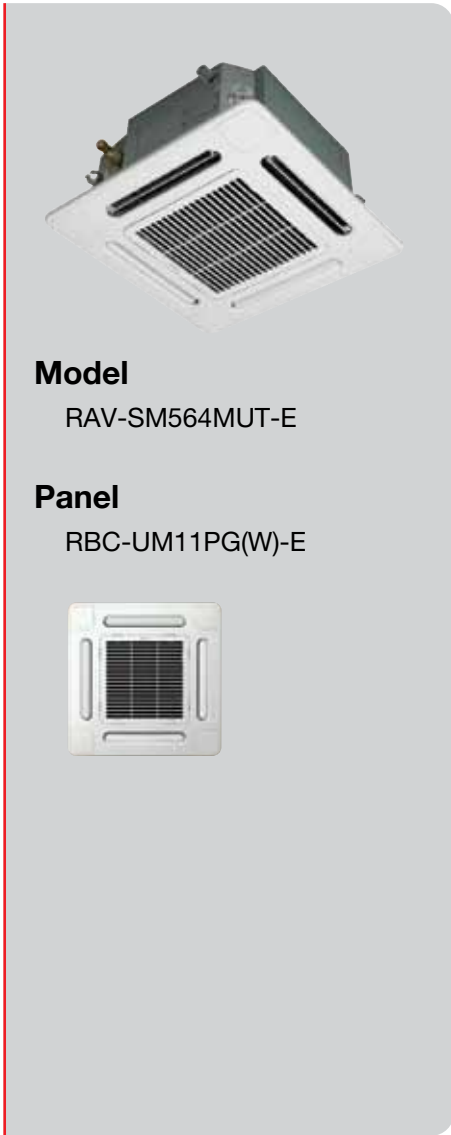
SDI series three phase

		
	RAV-SP1404AT8-A	RAV-SP1604AT8-A
4-way Cassette Type		RAV-SM1404UTP-E
Ducted Type		RAV-SM1406BT-E
Ceiling Type		RAVSM1404CT-E

Indoor Units



Compact 4-way Cassette Type



Model
RAV-SM564MUT-E

Panel
RBC-UM11PG(W)-E



Perfect for grid system ceiling

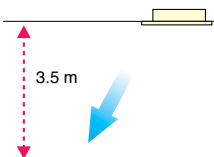
1. This compact unit (575mm x 575mm) fits perfectly into ceilings and matches standard architectural modules, without the need to cut ceiling tiles.
2. The compact & stylish panel design is ideal for fashionable restaurants, shops and offices.
3. The louvers fold tightly against the ceiling when operation 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.



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.)

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
Outdoor	Heating Usable Temperature Range	OC	15-24
	Dimension (HxWxD)	mm	550x780x290
	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
Pipe Size	Heating Usable Temperature Range	OC	-20~15
	Liquid Line Ø	mm	6.4
	Gas Line Ø	mm	12.7
	Coupler Style		flare connention
	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



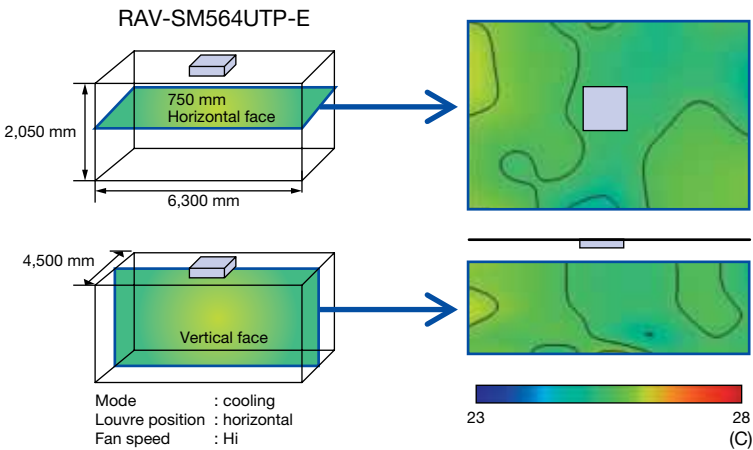
RBC-U31PG(W)-E

Wireless remote controller kit (optional)

RBC-AX31U(W)-E



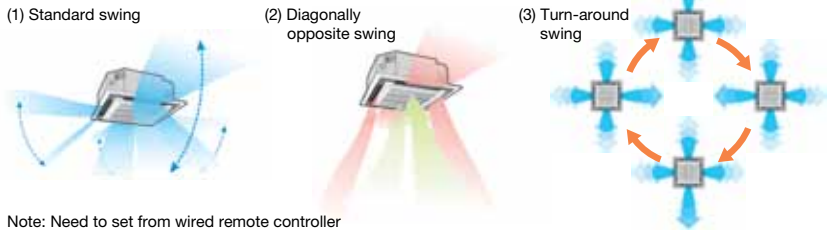
Temperature conditioning



Individual Louvre Control

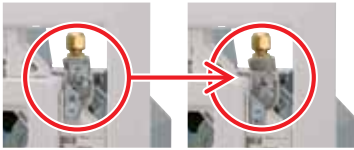
The angles of each of the four louvres can be set individually
⇒ Enables airflow to be chosen according to user preferences.

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	220/240V - 1 - 50Hz
Cooling	Capacity - Rated	kW	5.3	7.1	10	12.5
	Capacity - Range (min ~ max)	kW	1.2~ 5.6	1.9~ 8.0	2.6~ 12.0	2.6~ 14.0
	Efficiency (rated)	EER	3.61	3.82	4.52	3.96
	Power Input (min ~ rated ~ max)	kW	0.20~ 1.47 ~1.95	0.30~ 1.86 ~2.52	0.64~ 2.21 ~3.60	0.64~ 3.16 ~4.40
	Operating Current (rated)	A	6.82 (220V)	8.72 (220V)	10.36 (220V)	14.66 (220V)
Heating	Capacity - Rated	kW	5.6	8.0	11.2	14
	Capacity - Range (min ~ max)	kW	0.9~ 8.1	1.3~11.3	2.4~ 13.0	2.4~ 16.5
	Efficiency (rated)	COP	4.63	4.19	4.79	4.36
	Power Input (min ~ rated ~ max)	kW	0.15~ 1.21 ~2.4	0.25~ 1.91~3.52	0.52~ 2.34 ~4.20	0.52~ 3.21 ~4.50
	Operating Current (rated)	A	6.82	8.72	10.96 (220V)	14.89 (220V)
Indoor	Dimension (HxWxD)	mm	256x840x840	256x840x840	319x840x840	319x840x840
Unit	Net Weight	kg	20	20	24	24
	Airflow Volume (h/l)	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/M/L) at 1m distance	dBA	32/29/28	35/31/28	43/38/33	44/38/34
	Sound Power(H/M/L)	dBA	47/44/43	50/46/43	58/53/48	59/53/49
Outdoor	Dimension (HxWxD)	mm	550x780x290	890x900x320	1340x900x320	1340x900x320
Unit	Net Weight	kg	44	66	93	93
	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)	47	48	49	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	64	66	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	49	50	52
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64	65	67	69
	Cooling Usable Temperature Range	OC	-15~43	-15~43	-15/43	-15/43
	Heating Usable Temperature Range	OC	-20~15	-20~15	-20/15	-20/15
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		flare connention	flare connention	Flaring	Flaring
	Drain (Inside Diameter) Ø	mm	VP25	VP25	VP25	VP25
	Maximum Length	m	50	50	75	75
	Chargeless Length	m	20	30	30	30
	Maximum Height Difference	m	30	30	30	30

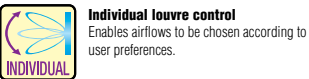
Comfort



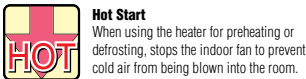
Inverter
Allows step-less regulation of the air-conditioner's power, which reduces energy consumption and improves comfort.



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



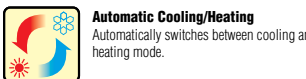
Individual louvre control
Enables airflows to be chosen according to user preferences.



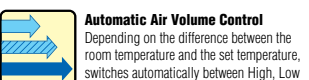
Hot Start
When using the heater for preheating or defrosting, stops the indoor fan to prevent cold air from being blown into the room.



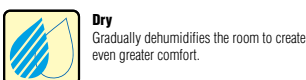
Auto-turn Louvres
Air outlet grilles move automatically to fill every corner of the room with warm or cool air.



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



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

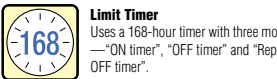


Dry
Gradually dehumidifies the room to create even greater comfort.

Operativity



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

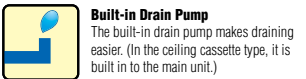


Limit Timer
Uses a 168-hour timer with three modes —“ON timer”, “OFF timer” and “Repeat OFF timer”.

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.)



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	380-415V /3φ/50Hz
Cooling	Capacity - Rated	kW	12.5	14
	Capacity - Range (min ~ max)	kW	2.6-14.0	2.6-16.0
	Efficiency (rated)	EER	3.61	3.12
	Power Input (min ~ rated ~ max)	kW	0.66-3.46-4.40	0.66-4.49-5.70
	Operating Current (rated)	A	6.03	7.55
Heating	Capacity - Rated	kW	14	16.0
	Capacity - Range (min ~ max)	kW	2.4-18.0	2.4-19.0
	Efficiency (rated)	COP	4.09	3.72
	Power Input (min ~ rated ~ max)	kW	0.53-3.42-5.50	0.53-4.30-6.51
	Operating Current (rated)	A	6.03	7.55
Indoor	Dimension (HxWxD)	mm	319x840x840	319x840x840
Unit	Net Weight	kg	24	24
	Airflow Volume (H)	L/s	583	592
	Heating Airflow Volume (H/L)	L/s	583	592
	Fan Motor Output	W	72	72
	Sound Pressure(H/L) at 1m distance	dBA	44/34	45/36
	Sound Power(H/L)	dBA	59/49	60/51
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	44/34	45/36
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	59/49	60/51
Outdoor	Dimension (HxWxD)	mm	1340x900x320	1340x900x320
Unit	Net Weight	kg	95	95
	Compressor Type		DC twin rotary	DC twin rotary
	Fan Motor Output	W	100+100	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	51	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	68	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	52	53
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	69	70
	Cooling Usable Temperature Range	DB°C	-15/+46	-15/+46
	Heating Usable Temperature Range	WB°C	-20/+15	-20/+15
Pipe Size	Liquid Line Ø	mm	9.5	9.5
	Gas Line Ø	mm	15.9	15.9
	Coupler Style		flare connection	flare connection
	Maximum Length	m	75	75
	Chargeless Length	m	30	30
	Maximum Height Difference	m	30	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	220/240V - 1 - 50Hz	220/240V - 1 - 50Hz	220/240V - 1 - 50Hz	220/240V - 1 - 50Hz
Cooling	Capacity - Rated	kW	5.3	6.2	10	11.2	14
	Capacity - Range (min ~ max)	kW	1.5~ 5.6	1.5~ 8.0	3.0~ 11.2	3.0~ 13.2	3.0~ 16.0
	Efficiency (rated)	EER	3.21	3.37	3.22	3.34	3.12
	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	0.65~ 4.49 ~5.70
	Operating Current (rated)	A	7.89 (220V)	8.90 (220V)	14.42 (220V)	15.70 (220V)	21.48 (220V)
Heating	Capacity - Rated	kW	5.6	8	11.2	14	16
	Capacity - Range (min ~ max)	kW	1.5~ 6.3	1.5~9.0	3.0~ 13.0	3.0~ 16.0	3.0~ 18.0
	Efficiency (rated)	COP	3.89	3.62	3.82	3.68	3.61
	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	0.65~ 4.43 ~6.51
	Operating Current (rated)	A	6.89 (220V)	10.65 (220V)	13.59 (220V)	17.81 (220V)	21.20 (220V)
Indoor	Dimension (HxWxD)	mm	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840
Unit	Net Weight	kg	20	20	24	24	24
	Airflow Volume (H)	L/s	291.7/216.7	341.7/225.0	558.4/325.1	583.5/341.7	591.8/350.1
	Heating Airflow Volume (H/L)	L/s	291.7/216.7	341.7/225.0	558.4/325.1	583.5/341.7	591.8/350.1
	Fan Motor Output	W	14	20	68	72	72
	Sound Pressure(H/M/L) at 1m distance	dBA	32/29/28	35/31/28	43/38/33	44/38/34	45/40/36
	Sound Power(H/M/L)	dBA	47/44/43	50/46/43	58/53/48	59/53/49	60/55/51
	Heating Operating Noise (Sound Pressure) (H/M/L) at 1m distance	dBA (@spl)	32/29/28	35/31/28	43/38/33	44/38/34	45/40/36
	Heating Operating Noise (Sound Power) (H/M/L)	dBA (@swl)	47/44/43	50/46/43	58/53/48	59/53/49	60/55/51
Outdoor	Dimension (HxWxD)	mm	550x780x290	795x900x320	795x900x320	1340x900x320	1340x900x320
Unit	Net Weight	kg	44	63	93	93	99
	Compressor Type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
	Fan Motor Output	W	43	63	100+100	100+100	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	46	48	53	54	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	65	70	71	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	50	54	54	53
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	65	67	71	71	70
	Cooling Usable Temperature Range	DB°C	-15/43	-15/43	-15/43	-15/43	-15/43
	Heating Usable Temperature Range	WB°C	-15/15	-15/15	-15/15	-15/15	-15/15
Pipe Size	Liquid Line Ø	mm	6.4	9.5	9.5	9.5	9.5
	Gas Line Ø	mm	12.7	15.9	15.9	15.9	15.9
	Coupler Style		Flaring	Flaring	Flaring	Flaring	Flaring
	Drain (Inside Diameter) Ø	mm	VP25	VP25	VP25	VP25	VP25
	Maximum Length	m	50	50	50	50	50
	Chargeless Length	m	20	30	30	30	30
	Maximum Height Difference	m	30	30	30	30	30

4 WAY CASSETTE TYPE – TWIN

Indoor		RAV-SM804UTP-E x 2	
Outdoor		RAV-SM1403AT-A	
Refrigerant Type		R410A	
Power Supply		Volts-Phase-Hz	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

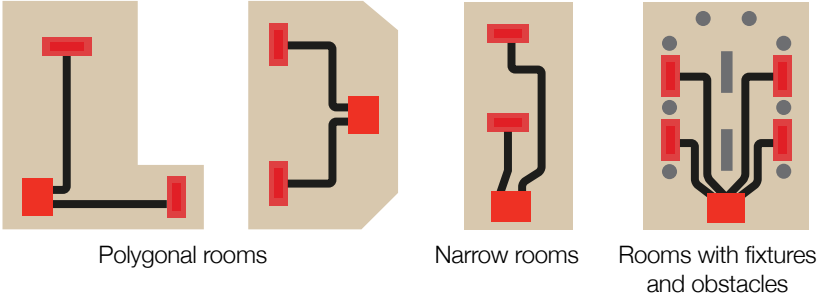


Models

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.




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.




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.




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




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.)

12

13

DUCT TYPE – SUPER DIGITAL INVERTER

Indoor			RAV-SM566BT-E	RAV-SM806BT-E	RAV-SM1106BT-E	RAV-SM1406BT-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	4.9	7.1	10.0	12.5
	Capacity - Range (min ~ max)	kW	1.2-5.6	1.9-8.0	2.6-12.0	2.6-14.0
	Efficiency (rated)	EER	3.25	3.45	3.79	3.26
	Power Input (min ~ rated ~ max)	kW	0.21/1.51/2.05	0.30/2.06/2.88	0.64/2.64/3.80	0.64/3.83/4.47
	Operating Current (rated)	A	7.00	9.65	12.30	17.70
Heating	Capacity - Rated	kW	5.6	8.0	11.2	14.0
	Capacity - Range (min ~ max)	kW	0.9-7.4	1.3-10.6	2.4-13.0	2.4-16.5
	Efficiency (rated)	COP	3.61	3.62	4.04	3.81
	Power Input (min ~ rated ~ max)	kW	0.17/1.55/2.51	0.27/2.21/3.50	0.52/2.77/4.00	0.52/3.67/4.50
	Operating Current (rated)	A	7.18	10.3	12.90	17.00
Indoor Unit	Dimension (HxWxD)	mm	275x700x750	275x1000x750	275x1400x750	275x1400x750
	Net Weight	kg	23	30	40	40
	Airflow Volume (H/L)	L/s	222/133	333/200	583/350	583/350
	Heating Airflow Volume (H/L)	L/s	222/133	333/200	583/350	583/350
	Fan Motor Output	W	150	150	250	250
	Sound Pressure(H/M/L) at 1m distance	dBA	33/29/25	34/30/26	40/36/33	40/36/33
	Sound Power(H/M/L)	dBA	55/51/46	55/51/46	63/58/54	63/58/54
	Heating Operating Noise (Sound Pressure) (H/M/L) at 1m distance	dBA (@spl)	33/29/25	34/30/26	40/36/33	40/36/33
	Heating Operating Noise (Sound Power) (H/M/L)	dBA (@swl)	55/51/46	55/51/46	63/58/54	63/58/54
	Compressor Type		DC Twin Rotary	DC Twin Rotary	DC twin rotary	DC twin rotary
Outdoor Unit	Dimension (HxWxD)	mm	550x780x290	890x900x320	1340x900x320	1340x900x320
	Net Weight	kg	44	66	93	93
	Fan Motor Output	W	43	63	100+100	100+100
	Cooling Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	47	48	49	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	64	66	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	49	50	52
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64	65	67	69
	Cooling Usable Temperature Range	OC	-15~43	-15~43	-15/+43	-15/+43
	Heating Usable Temperature Range	OC	-20~15	-20~15	-20/+15	-20/+15
	Coupler Style		flare connention	flare connention	flare connention	flare connention
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
	Maximum Length	m	50	50	75	75
	Chargeless Length	m	20	30	30	30
Maximum Height Difference		m	30	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	12.5
	Capacity - Range (min ~ max)	kW	2.6-14.0
	Efficiency (rated)	EER	3.24
	Power Input (min ~ rated ~ max)	kW	0.66-3.86-4.89
	Operating Current (rated)	A	6.74
Heating	Capacity - Rated	kW	14.0
	Capacity - Range (min ~ max)	kW	2.4-18.0
	Efficiency (rated)	COP	3.81
	Power Input (min ~ rated ~ max)	kW	0.53-3.67-5.71
	Operating Current (rated)	A	6.74
Indoor Unit	Dimension (HxWxD)	mm	275x1400x750
	Net Weight	kg	40
	Airflow Volume (H)	L/s	583
	Heating Airflow Volume (H/L)	L/s	583
	Fan Motor Output	W	250
	Sound Pressure(H/L) at 1m distance	dBA	40/33
	Sound Power(H/L)	dBA	63/54
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	40/33
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	63/54
	Compressor Type		DC twin rotary
Outdoor Unit	Dimension (HxWxD)	mm	1340x900x320
	Net Weight	kg	95
	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
	Coupler Style		flare connection
Pipe Size	Liquid Line Ø	mm	9.5
	Gas Line Ø	mm	15.9
	Maximum Length	m	75
	Chargeless Length	m	30
Maximum Height Difference		m	30

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

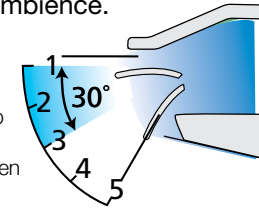
Very quiet operation

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

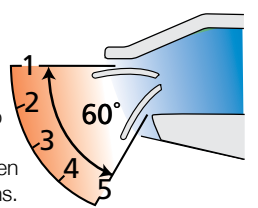
Flap control

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.

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 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 Louvers
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

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	12.5
	Capacity - Range (min ~ max)	kW	1.2~ 5.6	1.9~ 8.0	2.6~ 12.0	2.6~ 14.0
	Efficiency (rated)	EER	3.38	3.46	3.75	3.35
	Power Input (min ~ rated ~ max)	kW	0.21~ 1.39 ~2.26	0.30~ 1.91 ~2.88	0.64~ 2.67 ~3.70	0.64~ 3.73 ~4.47
	Operating Current (rated)	A	6.45	8.95	12.51	17.3
Heating	Capacity - Rated	kW	5.6	8.0	11.2	14.0
	Capacity - Range (min ~ max)	kW	0.9~ 7.4	1.3~10.6	2.4~ 13.0	2.4~ 16.5
	Efficiency (rated)	COP	3.81	3.70	4.27	3.84
	Power Input (min ~ rated ~ max)	kW	0.17~ 1.47 ~2.34	0.27~ 2.16~3.50	0.52~ 2.62 ~4.00	0.52~ 3.65 ~4.60
	Operating Current (rated)	A	6.45	8.95	12.28	16.93
Indoor	Dimension (HxWxD)	mm	210x910x680	210x1180x680	210x1595x680	210x1595x680
Unit	Net Weight	kg	21	25	33	33
	Airflow Volume (h/l)	L/s	216.7/166.7	308.4/243.4	458.4/353.4	550.1/385.1
	Heating Airflow Volume (H/L)	L/s	216.7/166.7	308.4/243.4	458.4/353.4	550.1/385.1
	Fan Motor Output	W	60	60	120	120
	Sound Pressure(H/M/L)) at 1m distance	dBA	36/33/30	38/36/33	41/38/35	43/40/37
	Sound Power(H/M/L)	dBA	51/48/45	53/51/48	56/53/50	58/55/52
	Heating Operating Noise (Sound Pressure) (H/L) at 1m distance	dBA (@spl)	36/33/30	38/36/33	41/38/35	43/40/37
	Heating Operating Noise (Sound Power) (H/L)	dBA (@swl)	51/48/45	53/51/48	56/53/50	58/55/52
Outdoor	Dimension (HxWxD)	mm	550x780x290	890x900x320	1340x900x320	1340x900x320
Unit	Net Weight	kg	44	66	93	93
	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)	47	48	49	51
	Cooling Operating Noise (Sound Power) (H)	dBA (@swl)	63	64	66	68
	Heating Operating Noise (Sound Pressure) (H) at 1m distance	dBA (@spl)	48	49	50	52
	Heating Operating Noise (Sound Power) (H)	dBA (@swl)	64	65	67	69
	Cooling Usable Temperature Range	OC	-15~43	-15~43	-15/43	-15/43
	Heating Usable Temperature Range	OC	-20~15	-20~15	-20/15	-20/15
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		flare connention	flare connention	Flaring	Flaring
	Drain (Inside Diameter) Ø	mm	VP25	VP25	VP25	VP25
	Maximum Length	m	50	50	75	75
	Chargeless Length	m	20	30	30	30
	Maximum Height Difference	m	30	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 /3φ/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 + 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.

HI-WALL TYPE - TWIN

Indoor		RAV-SM806KRT x 2
Outdoor		RAV-SP1404AT-A
Refrigerant Type		R410A
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
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	DB° C
	Heating Usable Temperature Range	WB° C
Pipe Size	Liquid Line Ø	(mm)
	Gas Line Ø	(mm)
	Coupler Style	Flaring
	Drain (Inside Diameter) Ø	mm
	Maximum Length	m
	Chargeless Length	m
	Maximum Height Difference	m

HI-WALL TYPE - SUPER DIGITAL INVERTER

Indoor		RAV-SM566KRT-A	RAV-SM806KRT-A
Outdoor		RAV-SP564ATP-A	RAV-SP804ATP-A
Refrigerant Type		R410A	R410A
Power Supply	Volts-Phase-Hz	220-240V/1/50Hz	220-240V/1/50Hz
Cooling	Capacity - Rated	kW	6.6
	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	8.0
	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
	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 connention
	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.



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.







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.

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			
Model name	RBC-AX31U(W)-E	RBC-AX22CE2	TCB-AX32E2
Remarks	For 4-way cassette type (Series 4)	For under ceiling type (Series 2)	

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	OK
	RAV-SM804CT-E	OK	OK	OK	OK	OK
	RAV-SM1104CT-E	OK	OK	OK	OK	OK
	RAV-SM1404CT-E	OK	OK	OK	OK	OK
High-wall Series 4	RAV-SM566KRT-A	OK	OK	OK		OK
	RAV-SM806KRT-A	OK	OK	OK		OK

SDI

Super Digital Inverter

Very efficient energy consumption

⇒ Keeps down operating costs

Heater operation is possible starting from an outdoor temperature of -20°C

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

⇒ Creates a comfortable space even during cold winters

Low-noise design. If the outdoor temperature is 30°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

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



Unit: mm

Z view

Bottom face of ceiling

Knockout for fresh air intake dia.150

197 155 13.5 13.5 35 51 54

408

269

950 Panel external dimension

68020 Hanging bolt pitch

416.5

323

760 Hanging bolt pitch

950 Panel external dimension

Electric parts box

860 to 910 Ceiling open dimension

● Space required for installation

1000 or more

15 or more

1000 or more

15 or more

1000 or more

15 or more

For branch duct knockout square hole 150 (diam.) (Also located on the back)

196.5 480 183.5

223.5 256.5

384 105 351

1137

189

29 101 120 35

189

16.5 120

71 132 4

13 156

339

Bottom face of ceiling

For branch duct knockout square hole 150 (diam.)

Ceiling panel (Sold separately)

Drain discharge port

241.5 72 106.5

263 157

337.5 105 397.5

189

29 101 120 35

189

16.5 120

71 132 4

13 156

339

Bottom face of ceiling

Stand-up 500 or less

Stand-up 850 or less

300 or less

Bottom face of ceiling

Drain-up standing-up size

Refrigerant pipe connecting port (Gas side)

Refrigerant pipe connecting port (Liquid side)

Wiring connection port

Top View:

- For branch duct knockout square hole dia.150
- Bottom face of ceiling
- Electric parts box
- Knockout for fresh air intake dia.100
- 207, 175, 149, 64
- 235, 105, 235
- 575 unit external dimension
- 525 hanging bolt pitch
- 595 to 660 ceiling open dimension
- 270 Panel external dimension
- 320.5, 331.5
- 595 to 660 ceiling open dimension
- 388.5, 54, 142
- 595 to 660 ceiling open dimension
- 595 to 660 ceiling open dimension
- 595 to 660 ceiling open dimension

Side View:

- 575 unit external dimension
- 320.5
- 331.5
- 177
- 510 hanging bolt pitch
- 595 to 660 ceiling open dimension
- 270 Panel external dimension
- 177
- 214, 105, 256
- 97.5, 42, 1148
- 190.5, 139.5, 48, 155
- 132.4, 145.5, 220.5
- 83, 120
- 21, 158, 142
- 27
- Bottom face of ceiling

Bottom View:

- Refrigerant pipe (Gas) 0151, 0181MH...dia.12.7
- 0071, 0091, 0121MH...dia.9.5
- Refrigerant pipe (Liquid) dia.6.4
- Wiring connection port
- For branch duct knockout square hole dia.150
- Bottom face of ceiling

Drain-up standing-up size:

- Indoor unit
- Stand-up 487.5 or less
- 850 or less
- Bottom face of ceiling
- Check port (D450)

Space required for installation:

- 1000 or more
- 15 or more
- 1000 or more
- 15 or more
- Obstacle

[illegible]

Z view

Side view dimensions (mm): 216, 116, 50, 130, 70, 167, 105, 680, 121, 200 (Liquid pipe), 210 (Gas pipe), 170 (Inner dia.62, hose supplied).

Labels for side view:

- Piping extake port *
- Drain port VP20
- (Inner dia.62, hose supplied)
- Remote controller cable intake port *
- Power supply intake port *
- Remote controller cable intake port *
- Air intake port dia.92 *
- (Duct solid separately)
- Drain left piping extake port *

Front view dimensions (mm): 347, 252, 135, 80, 145, 84, 17, 93, 121.

Labels for front view:

- Piping hole on the wall (dia.100 hole)
- Wireless sensor mounting section

● Space required for installation and servicing

Hanging bolt: Within 50 mm

Ceiling surface: Unit

Dimensions for ceiling surface (mm):

A	B
855	910
1125	1180
1540	1595

Dimensions for floor (mm): 250 or more, 250 or more, 500 or more.

Note: (Front side to be positioned horizontally)

Technical drawings of the VPM1000 unit showing various views and dimensions:

- Top View:** Shows the unit's footprint with a width of 998mm and a height of 221mm. It includes air outlets on the left and right sides and air inlets on the top and bottom.
- Side View:** Shows the unit's depth of 50mm.
- Front View:** Shows the unit's front profile with a width of 998mm and a height of 763.5mm. It includes a drain hose connection at the bottom.
- Bottom View:** Shows the unit's base with a width of 998mm and a height of 50mm. It includes a drain hose connection at the bottom.

Key dimensions and labels:

- Width: 998mm
- Height: 221mm
- Depth: 50mm
- Front Height: 763.5mm
- Drain hose VP16
- Labels: Air outlet, Air inlet, Piping port from left sides, Piping port from bottom sides, Drain hose VP16

Unit: mm

Technical Drawing of the Outdoor Unit

Top View (Left): Shows the top of the unit with dimensions: 54, 38, 11, R15, and 2-dia.6 hole. A detailed view of the **B leg part** is shown below it with dimensions: 69.5, 147, 21, R15, 38, 54, and R5.5.

Front View (Center): Shows the front of the unit with dimensions: 320, 306, 290, 30, 483, 108, 257, 6, 449, 35, 52, 32, 500, 780, 71, 25, 22, 33, 37, 8, 550, and 6. A detailed view of the **A leg part** is shown below it with dimensions: 147, 21, R15, 38, 54, and R5.5.

Side View (Right): Shows the side of the unit with dimensions: 2-dia.20x88 drain long hole, 600, 90, 60, 108, 125, 30, 54, 20, 2-dia.11x14 U-shape cut-out (for dia.8-10 anchor bolt), Refrigerant pipe connecting port (Gas side), Refrigerant pipe connecting port (Liquid side), 8-dia.6 hole (for fixing outdoor unit), 2-dia.11x14 long hole (for dia.8-10 anchor bolt), 157, 79, 31, 14, 14, 342, and 3.

Labels: Drain hole dia.25, A leg part, B leg part, Fan guard, Charging port.

SDI 80 type

Knockout (for drain)

Drain hole (dia.20x88)

Air inlet

Drain hole (dia.25)

B leg part

Knock out (for drain)

Air outlet

A leg part

SDI : SDI 80 type

DI (110~140 type)

Mounting bolt hole
(2-dia.12x17 U-shape cut-out)

Detailed B leg part

Mounting bolt hole
(2-dia.12x17 long hole)

Detailed A leg part

	SDI 56~80 type	DI 110~140 type
F	30	25
G	45	50

Z view

Knockout for lower piping

Hanger (both sides)

Refrigerant pipe connecting port (Gas side)

Refrigerant pipe connecting port (Liquid side)

SDI : 80 type

[illegible]

TOSHIBA

AIR CONDITIONING

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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