TOSHIBA

Leading Innovation »»

SUPER DIGITAL INVERTER

INVERTER

Inverter Air Conditioning for Light Commercial Use

SUPER DIGITAL INVERTER

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°C
(RAV-SP1104AT-E, -SP1404AT-E)

⇒ 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

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

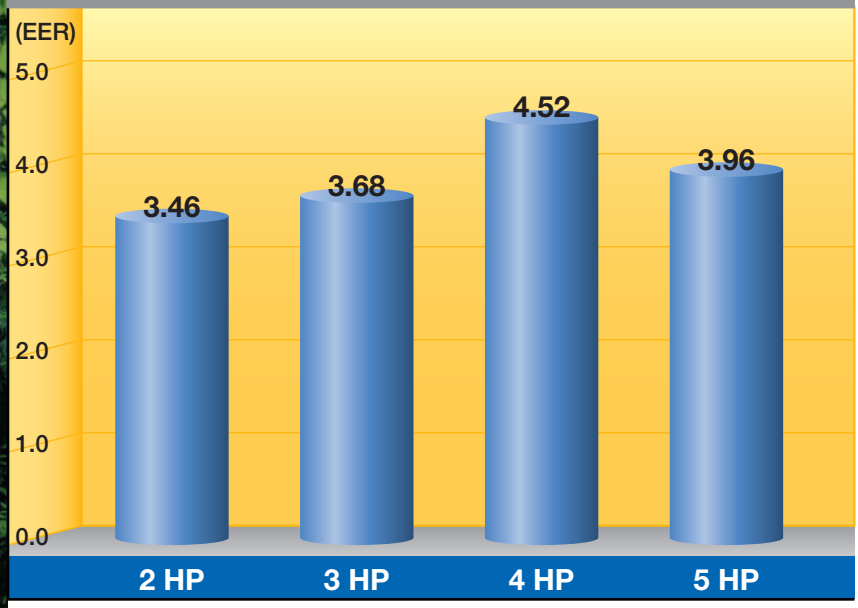
⇒ Keeps down delivery costs

⇒ Easy to install on a wall

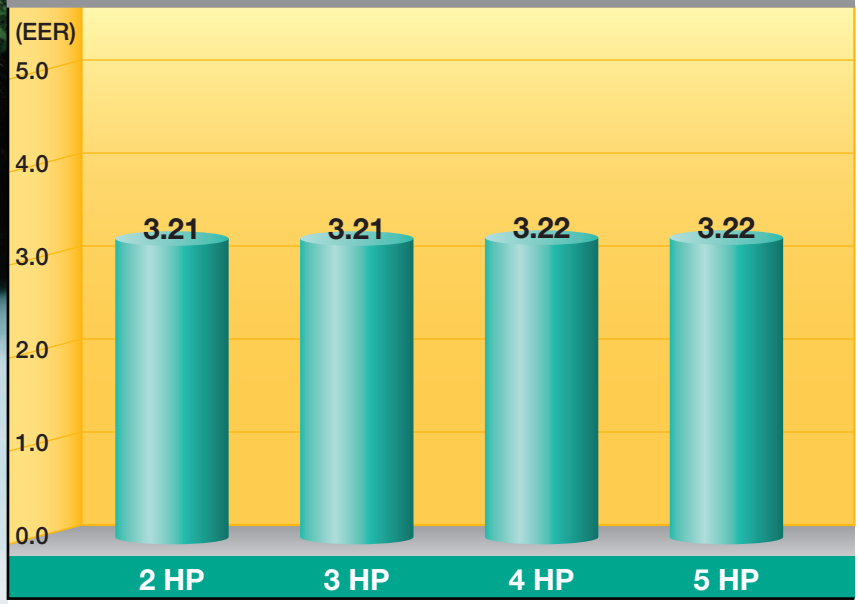
Pipes can be reused

Excellent Energy Efficiency Ratio

SDI / New 4-way cassette



DI / New 4-way cassette

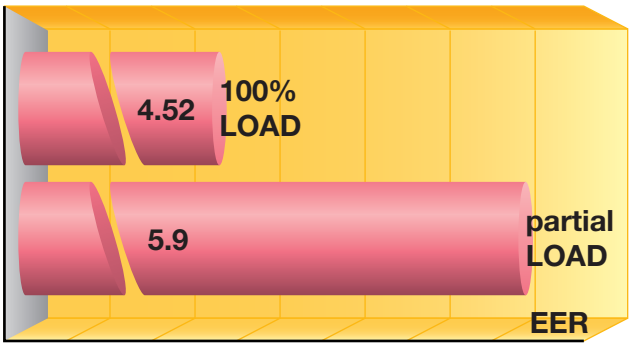


Not only are operating costs minimised, but carbon emissions are cut, helping in the fight against global warming.

New SDI Series 4

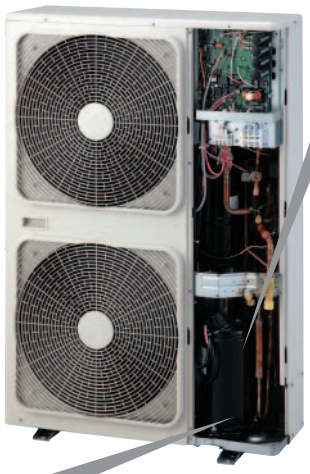
New Models with Enhanced Energy Efficiency (RAV-SP1104AT-E, -SP1404AT-E)

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



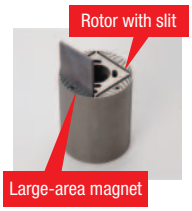
In addition to achieving a top ranking during 100% load (rated) conditions...

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 that cannot be expressed using just the rated energy consumption rate.



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

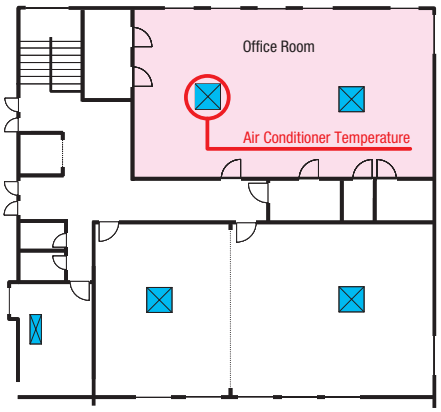
A low minimum speed of 10 rps has been achieved. This has further improved the operating efficiency when the load is low (the minimum in Series 2 was 15 rps).



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.

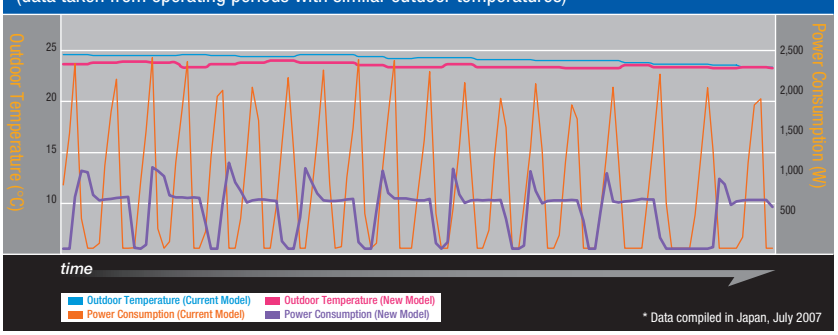
10 rps Operation Verification Test

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
			NEW	NEW
	RAV-SP562AT-E	RAV-SP802AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Compact 4-way Cassette Type	RAV-SM562MUT-E			
4-way Cassette Type NEW	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	RAV-SM803AT-E	RAV-SM1103AT-E	RAV-SM1403AT-E
Compact 4-way Cassette Type	RAV-SM562MUT-E			
4-way Cassette Type NEW	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

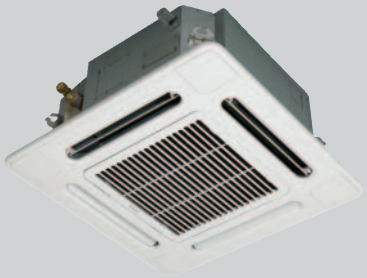
4-way Cassette Type

Duct Type

Ceiling Type

High-wall Type

Compact 4-way Cassette Type



Model

RAV-SM562MUT-E

Panel

RBC-UM11PG(W)-E

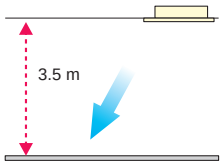
Perfect for grid system ceiling

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.

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”.

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-SM562MUT-E	RAV-SP1104AT-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 Indoor unit		RAV-SM563AT-E RAV-SM562MUT-E	RAV-SM1103AT-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	m^3/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	268×575×575
Weight	kg	17
Panel model name		RBC-UM11PG(W)-E
Panel dimensions (HxWxD)	mm	27×700×700
Panel weight	kg	3

		SDI
Outdoor unit		RAV-SP562AT-E
Air Flow	m^3/h	3420
Sound pressure level, heating/cooling	dB(A)	47/46
Sound power level, heating/cooling	dB(A)	64/63
Dimensions (HxWxD)	mm	795×900×320
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	m^3/h	2400
Sound pressure level, heating/cooling	dB(A)	48/46
Sound power level, heating/cooling	dB(A)	65/63
Dimensions (HxWxD)	mm	550×780×290
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

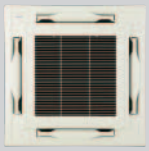
NEW

Models

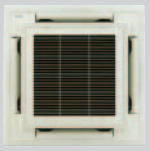
RAV-SM564UT-E
RAV-SM804UT-E
RAV-SM1104UT-E
RAV-SM1404UT-E

Panels

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



RBC-U31PG(W)-E



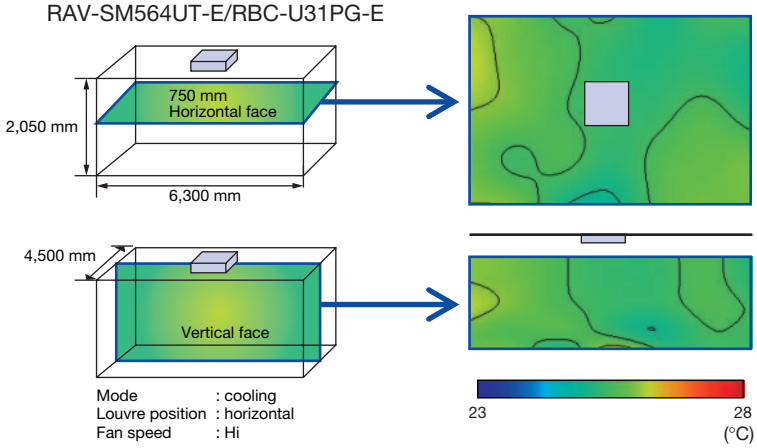
RBC-U31PGS(W)-E

Wireless remote controller kit

RBC-AX31U(W)-E

Temperature conditioning

RAV-SM564UT-E/RBC-U31PG-E



Individual Louvre Control

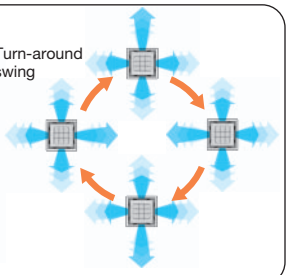
The angles of each of the four louvres can be set individually
⇒ Enables airflow to be chosen according to user preferences.

Three louvre swing patterns

(1) Standard swing

(2) Diagonally opposite swing

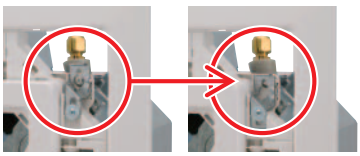
(3) Turn-around swing



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
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		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	m^3/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	256×840×840	256×840×840	319×840×840	319×840×840
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	30×950×950	30×950×950	30×950×950	30×950×950
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	m^3/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	795×900×320	795×900×320	1340×900×320	1340×900×320
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	m^3/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	550×780×290	550×780×290	795×900×320	795×900×320
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

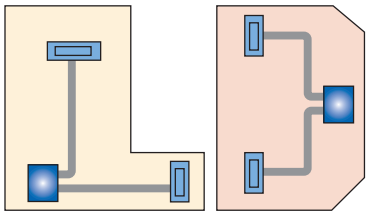
Versatile and Clever
Duct Type

Models

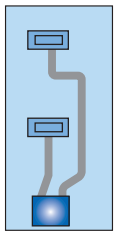
RAV-SM562BT-E
RAV-SM802BT-E
RAV-SM1102BT-E
RAV-SM1402BT-E

Wide range of applications

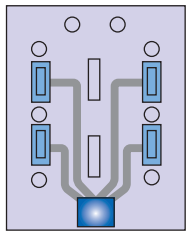
The use of ducts allows air outlets to be conveniently installed anywhere on the ceiling, eliminating the conspicuous presence of the air conditioner in the center of the room. Not only can this be applied to a wide variety of layouts from narrow spaces to polygonal rooms; it also greatly improves the 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	m^3/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	320×700×800	320×1000×800	320×1350×800	320×1350×800
Weight	kg	30	39	54	54

		SDI			
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Air Flow	m^3/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	795×900×320	795×900×320	1340×900×320	1340×900×320
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	m^3/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	550×780×290	550×780×290	795×900×320	795×900×320
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

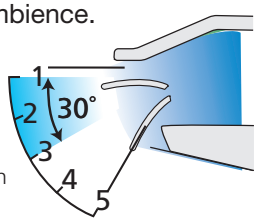
Quietest in industry

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

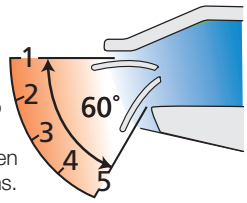
Flap control

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.

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".

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 RAVSM1102CT-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	m^3/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	210×910×680	210×1180×680	210×1595×680	210×1595×680
Weight	kg	21	25	33	33

		SDI			
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Air Flow	m^3/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	795×900×320	795×900×320	1340×900×320	1340×900×320
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	m^3/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	550×780×290	550×780×290	795×900×320	795×900×320
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 + 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.

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.

		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	m^3/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	298×998×221	298×998×221
Weight	kg	12	12

		SDI	
Outdoor unit		RAV-SP562AT-E	RAV-SP802AT-E
Air Flow	m^3/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	795×900×320	795×900×320
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	m^3/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	550×780×290	550×780×290
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)	

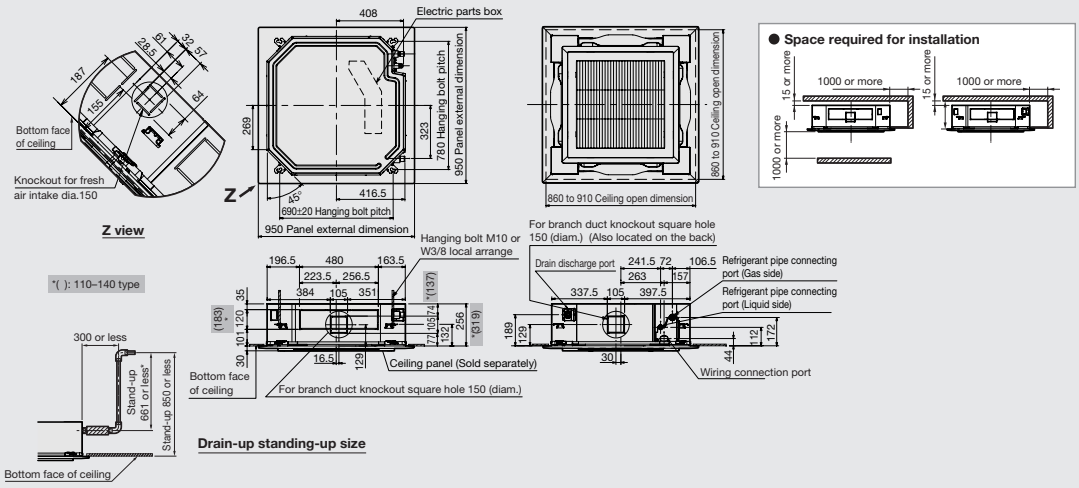
Combinations

		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

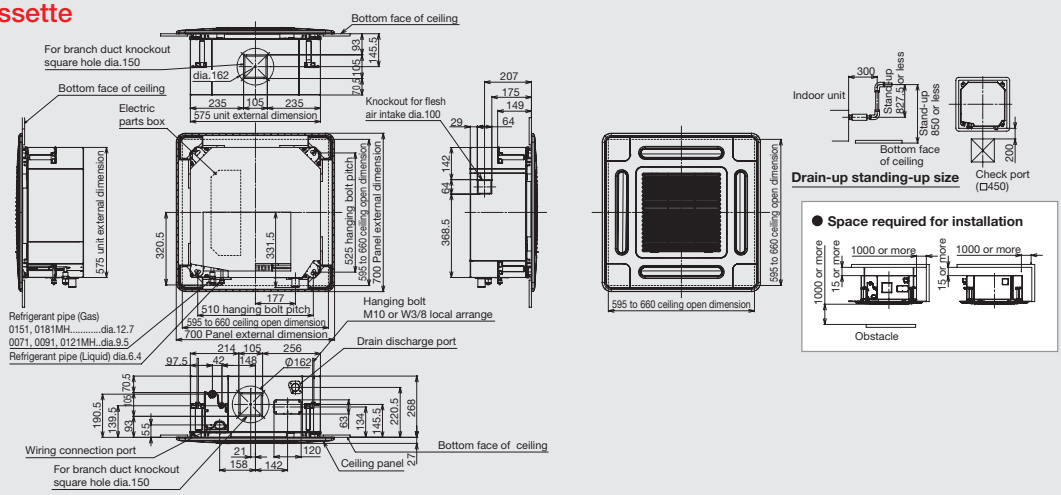
Indoor units

Unit: mm

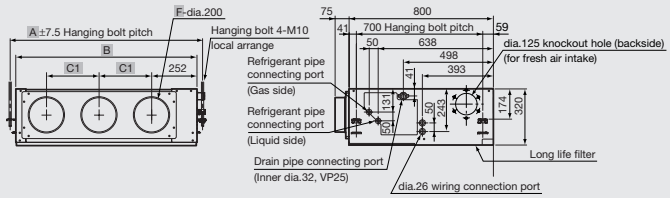
4-way cassette



Compact 4-way cassette



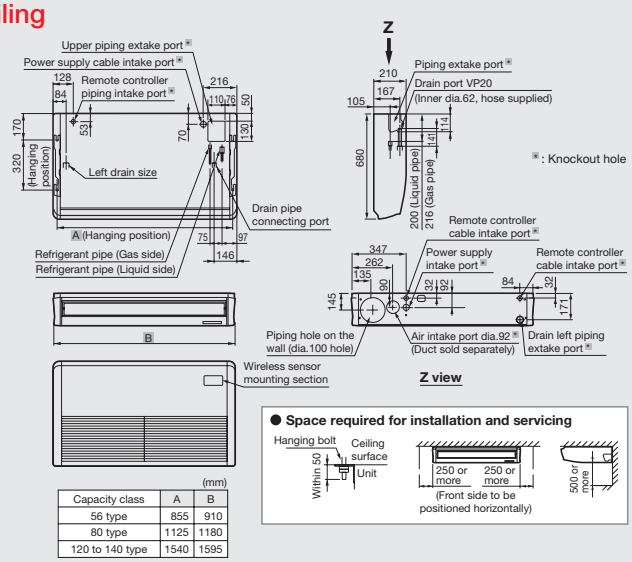
Duct



(mm)

Capacity class	A	B	C
56 type	766	700	280
80 type	1066	1000	290
110–140 type	1416	1350	310

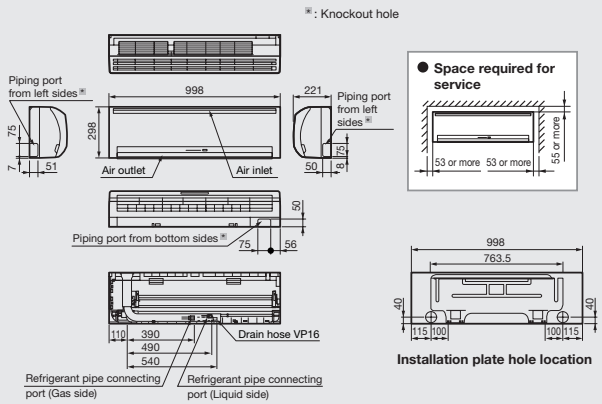
Ceiling



(mm)

Capacity class	A	B
56 type	855	910
80 type	1125	1180
120 to 140 type	1540	1595

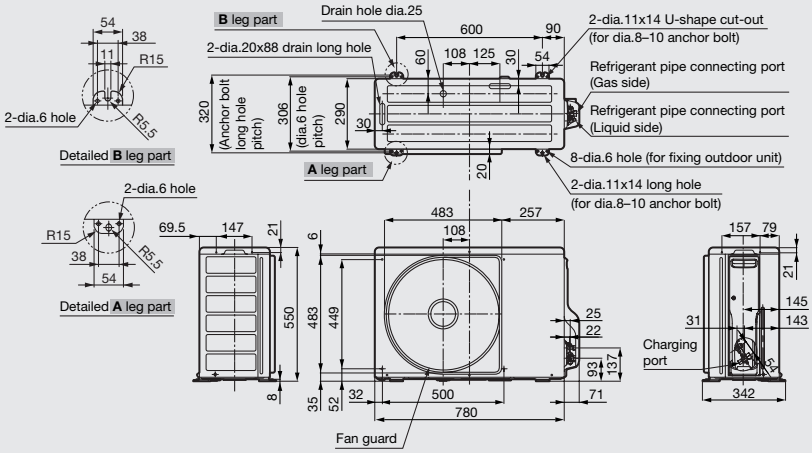
High-wall



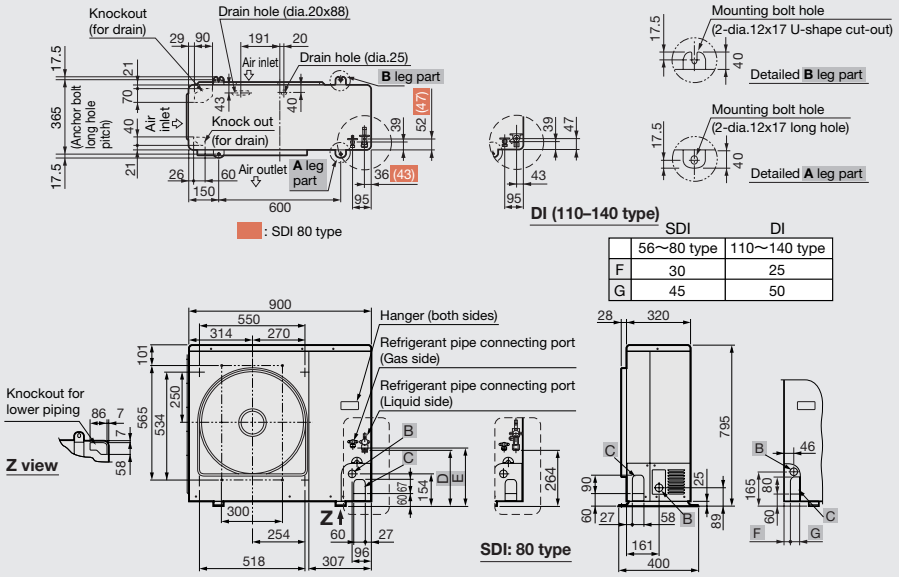
Outdoor units

Unit: mm

RAV-SM563AT-E～RAV-SM803AT-E

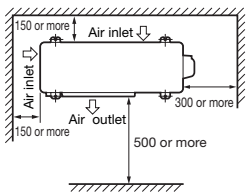


RAV-SP562AT-E～RAV-SP802AT-E, RAV-SM1103AT-E～RAV-SM1403AT-E



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

● **Space required for service**



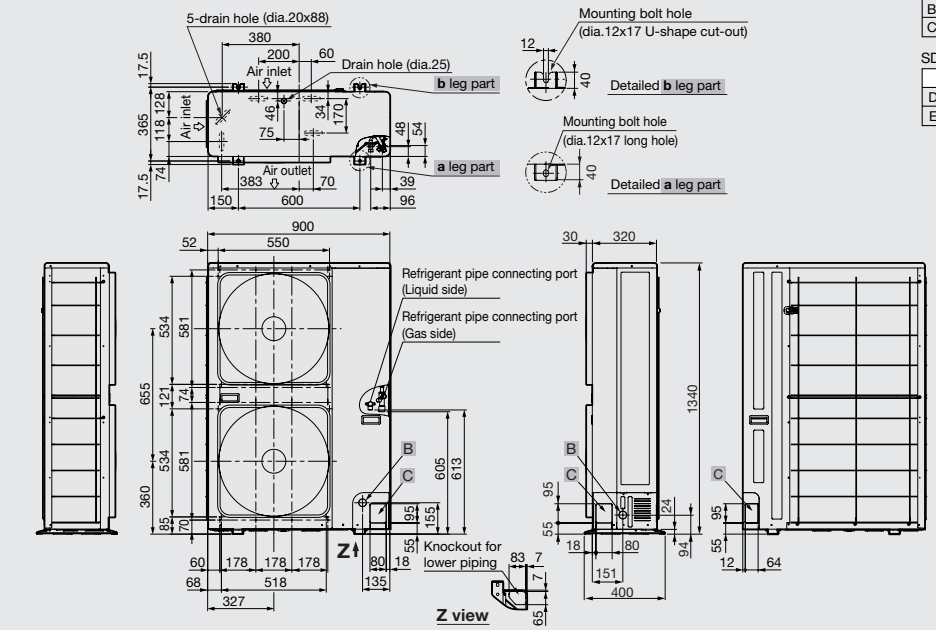
SDI / DI

	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
E	282	

RAV-SP1104AT-E～RAV-SP1404AT-E



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SDIDI200801-ID(1)