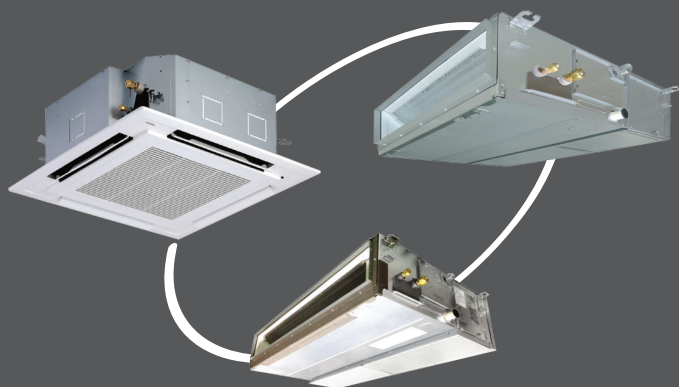


TOSHIBA

EXPERIENCE
THE FUTURE NOW



Light Commercial Inverter Brochure





> Toshiba Air Conditioning - **Absolute comfort**

Toshiba's commitment to world-class efficiency, versatile scalability and trusted quality results in the availability of cutting-edge technologies to give customers the most advanced solutions for their world. Toshiba Air Conditioning is a global provider of a comprehensive range of innovative air conditioning solutions with trusted, world class reliability. With several World's Firsts to its credit, Toshiba Air Conditioning has been the reliable source of next generation, energy efficient products and solutions for over 30 years.

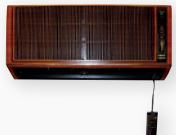








Toshiba commitment to people drives a focused attention for the details in every stage of the development process, from design to user field tests. Therefore the products and systems installed feature higher standard of indoor air quality, sound levels, energy savings and environmental awareness.











> A Global **Innovation Network**

Toshiba Air Conditioning has research and development centers in Japan, Europe, Thailand and China. Its global research activities are managed and integrated to ensure all research sites collaborate to provide innovative solutions to customers across the world. The Toshiba brand holds more than 1200 patents in Japan and abroad,

an outstanding number for any company. Each year since 1994, Toshiba Air Conditioning has received prestigious awards for its significant achievements in air conditioning. This demonstrates Toshiba's innovative spirit and a relentless drive to improve its products and systems.

> ALWAYS ONE STEP AHEAD

<p>First inverter-based air conditioner</p>  <p>1ST WORLD</p>	<p>First Toshiba VRF (MMS), modular system up to 40 HP</p>  <p>TOP CLASS EFFICIENCY</p>	<p>Super Power Eco using DC inverter rotary compressor & R410A</p>  <p>1ST WORLD</p>	<p>First digital inverter control</p> 	<p>Toshiba's first mini VRF (MiNi SMMS)</p>  <p>TOP CLASS EFFICIENCY</p>
<p>1981</p>	<p>1986</p>	<p>1993</p>	<p>2000</p>	<p>2001</p>
<p>Super Multi, multi air conditioner for buildings</p>	<p>Digital twin rotary air conditioner</p>  <p>1ST WORLD</p>	<p>DC hybrid inverter</p> 	<p>VRF (SMMS), Super Modular Multi System R410A</p>  <p>TOP CLASS EFFICIENCY</p>	<p>VRF (SMMS-i)</p> 

<p>Monosplit R32</p>  <p>1ST WORLD</p> <p>Entry Tier Model</p>	<p>Monosplit range DAISEIKAI 9 R32</p> 	<p>Full Multisplit range</p> 	<p>Monosplit SEIYA R32</p> 	<p>Monosplit SHORAI Edge R32</p> 
<p>2015</p>	<p>2016</p>	<p>2017</p>	<p>2018</p>	<p>2019</p>
<p>VRF (SMMS-e) with NFC service tool</p>  <p>1ST WORLD</p>	<p>VRF (SHRM-e), Super Heat Recovery Multi System</p> 	<p>Big DI, light commercial large-capacity air conditioner</p>  <p>TOP CLASS EFFICIENCY</p>	<p>Full light commercial range R32 DI R32 SDI R32</p> 	<p>DI 3.5HP R32</p>  <p>1ST WORLD</p>



LIGHT COMMERCIAL INVERTER

Solutions for professionals, by professionals

Toshiba Inverter light commercial systems provide exceptional operating savings and extremely compact units. With state-of-the-art technologies, flexible controls and improved installation, they ensure comfort and convenience for all business installations.

A complete range of indoor units to suit all commercial applications. The range has been expanded with maximum cooling capacities to benefit additional commercial applications with larger volumes.

Features

- R410A refrigerant for all range comply.
- Better energy saving with DC motor by indoor unit.
- DC motor ducted for easy installation & flexibility.
- Magic coil in FCU by Aqua resin coated to prevent dirt.
- Fireproof Electrical Enclosure for both indoor and outdoor unit.

> Product lineup



Standard duct

4-way cassette

Type Cooling only & Heat only	BTU	K	18	24	30	36	48
		kW	5.6	7.1	8.8	10.6	12.5
		HP	2.0	3.0	3.3	4.0	5.0
Standard duct							
	Cooling only		RAV-SH1801BP-2B	RAV-SH2401BP-2B	RAV-SH3001BP-2B	RAV-SH3601BP-2B	RAV-SH4801BP-2B
	Heat pump		RAV-SH1801BTP-2B	RAV-SH2401BTP-2B	RAV-SH3001BTP-2B	RAV-SH3601BTP-2B	RAV-SH4801BTP-2B
Condensing unit							
	Cooling only		RAV-SHB1801AP-2B	RAV-SHB2401AP-2B	RAV-SHB3001AP-2B	RAV-SHB3601AP-2B	RAV-SHB4801A8P-2B
	Heat pump		RAV-SHB1801ATP-2B	RAV-SHB2401ATP-2B	RAV-SHB3001ATP-2B	RAV-SHB3601ATP-2B	RAV-SHB4801AT8P-2B
4-way cassette							
	Cooling only		RAV-SH1801UP-2B	RAV-SH2401UP-2B	RAV-SH3001UP-2B	RAV-SH3601UP-2B	RAV-SH4801UP-2B
	Heat pump		RAV-SH1801UTP-2B	RAV-SH2401UTP-2B	RAV-SH3001UTP-2B	RAV-SH3601UTP-2B	RAV-SH4801UTP-2B
Condensing unit							
	Cooling only		RAV-SHU1801AP-2B	RAV-SHU2401AP-2B	RAV-SHU3001AP-2B	RAV-SHU3601AP-2B	RAV-SHU4801A8P-2B
	Heat pump		RAV-SHU1801ATP-2B	RAV-SHU2401ATP-2B	RAV-SHU3001ATP-2B	RAV-SHU3601ATP-2B	RAV-SHU4801AT8P-2B



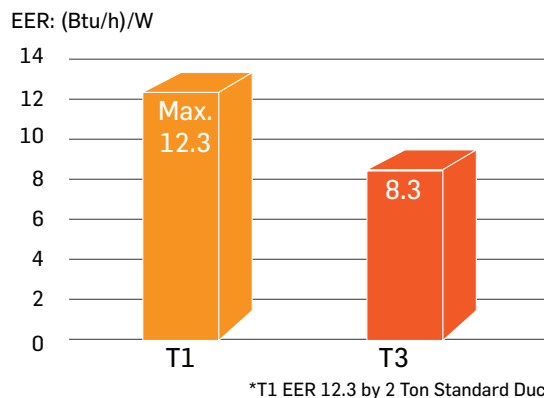
> Features

High efficiency

Toshiba's unique combination of twin rotary compressor and all inverter driven control contribute to guarantee accuracy and high efficiency.



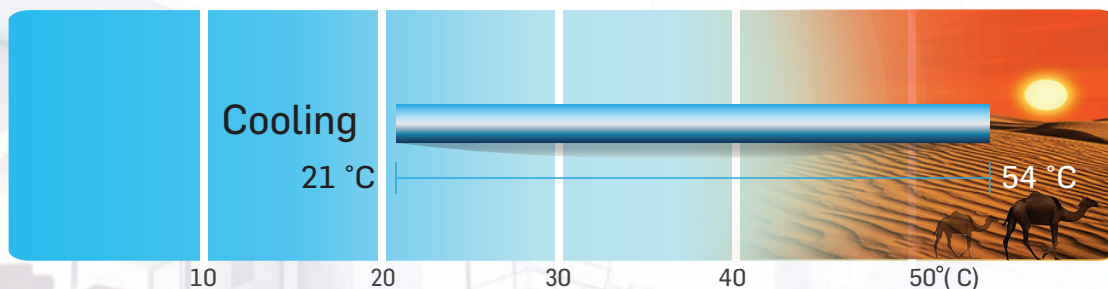
>>> Realize high efficiency both* T1 and T3



Condition
 T1 : Indoor air temperature 27°C DB / 19°C WB, Outdoor air temperature 35°C DB
 T3 : Indoor air temperature 29°C DB / 19°C WB, Outdoor air temperature 46°C DB

Outside temperature

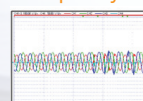
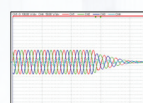
Suitable for Middle East regions, LC-Inverter has wide operation range thanks to high reliability of Twin rotary compressor.



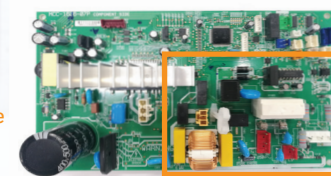
Protection circuit

LC-Inverter has the protection circuit to protect the PC board under unstable power supply* and a function that detects miss-wiring of the power supply for 3Phase product.

*3Phase 380-400V 10%



>>> Protection circuit*



Protection circuit

Thunder surge protection

Surge absorber device is added to protect the whole PCB from the high current like thunder surge up to 10,000 voltage.

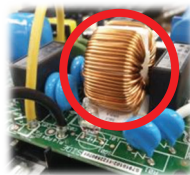


10,000V
THUNDER SURGE



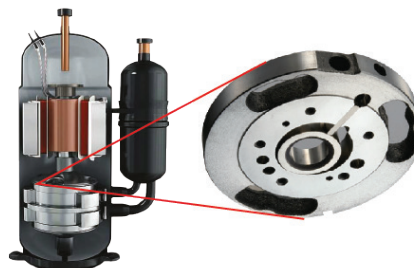
Noise filter

Noise Filter is equipped to prevent fluctuated voltage so that Air conditioner can operate smoothly with highly reliable.



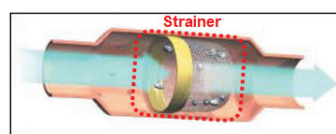
Twin rotary compressor

Toshiba's unique combination of twin rotary compressor and all inverter driven control remain with R410A refrigerant, contribute to guaranteed accuracy and expertise of flawless Japanese quality.

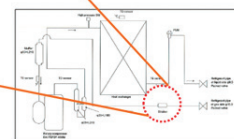


Strainer in gas pipe

LC-Inverter has the strainer in the gas pipe to remove the dust and metal-abrasion powder.



Refrigerant cycle diagram



Fireproof electrical enclosure

Fully fireproof electrical enclosure for both indoor and outdoor unit ensure safety by preventing spread of fire, explosion, fire-burn and spread.



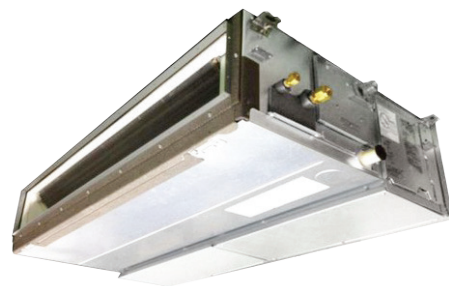


Ducted with DC motor

RAV-SH****BP
RAV-SH****BTP



2.0, 3.0 and 3.3 HP

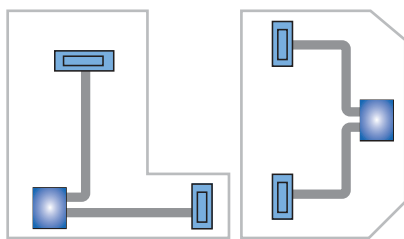


4.0 and 5.0 HP

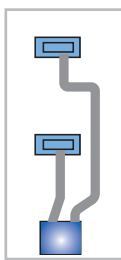
> Features

Flexible duct is accessible, allows complete design flexibility

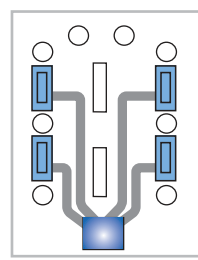
Suitable for duct application, allows complete design flexibility and with high static pressure all areas of the room can be reached for even temperature distribution, no matter how complex the layout.



Polygonal rooms



Narrow rooms



Rooms with fixture and obstacles

High static pressure and Air volume

1.5 - 2.0 Ton; Max 120Pa & 1,500 m³/h (30Pa)
3.0 Ton; Max 180Pa & 2,300 m³/h (50Pa)

2.5 Ton; Max 160Pa & 2,000 m³/h (50Pa)
4.0 Ton; Max 180Pa & 3,000 m³/h (50Pa)

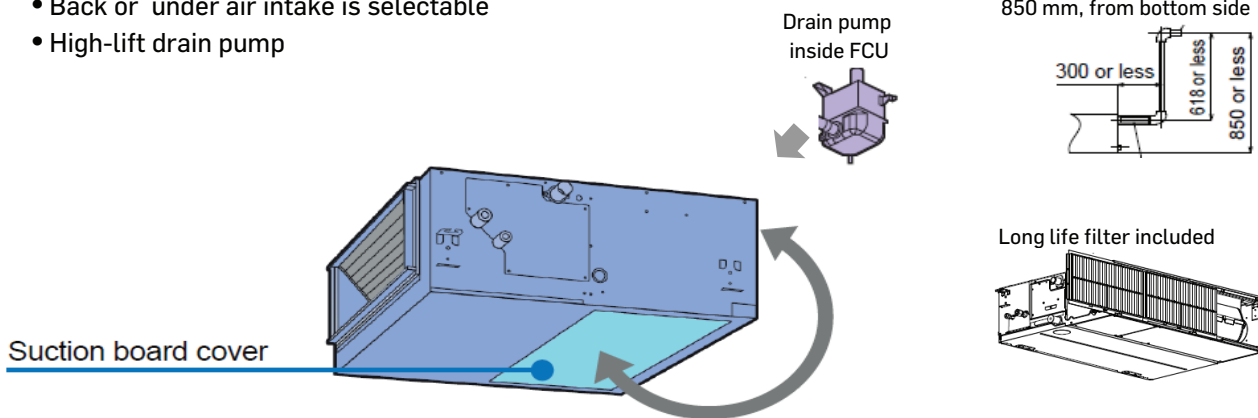
Fireproof electrical enclosure

Fully fireproof electrical enclosure for both indoor and outdoor unit ensure safety by preventing spread of fire, explosion, fire-burn and spread.



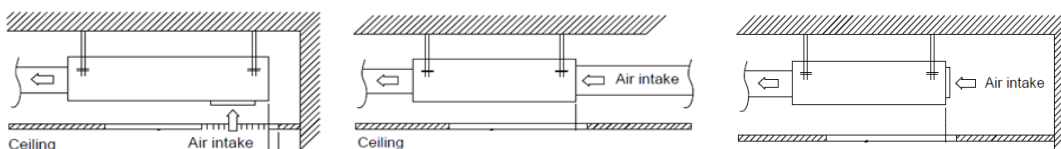
Installation flexibility

- Air filter and drain pump as standard
- Back or under air intake is selectable
- High-lift drain pump



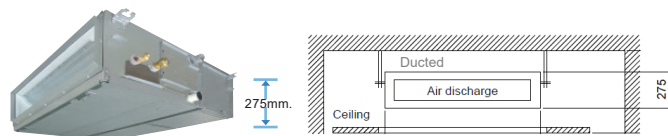
Installation is flexible by changing from back air intake to under air intake. Suction board cover either fix at bottom or back of unit.

Various installation way for air suction



Compact sizing

Compact size especially in height (275mm, 298mm), offers a wide range of installation opportunities to customer.



Flexible duct accessible

- Design flexibility
- Max. 180Pa with DC motor

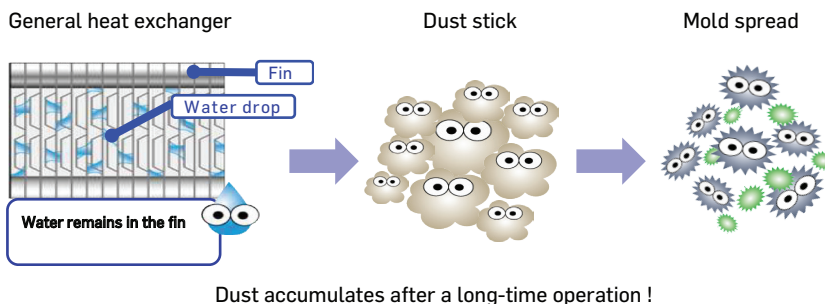
Flexible Installation

- Back or under air intake
- High-lift drain pump

850 mm. from the bottom side => Filter and drain pump included as standard

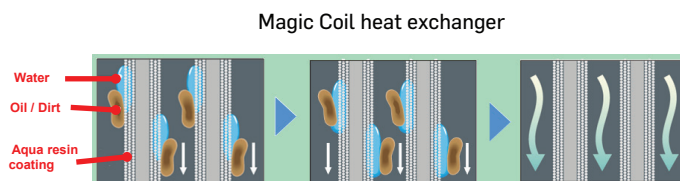
Self clean operation

The mechanism of the wash-off by aqua-resin coated indoor unit's fins.



Magic coil in FCU by Aqua resin coated

The aqua resin coating prevents dirt from sticking to the fins. Condensation water flows washes away dirt. After washing, a drying operation suppresses the propagation of mold.



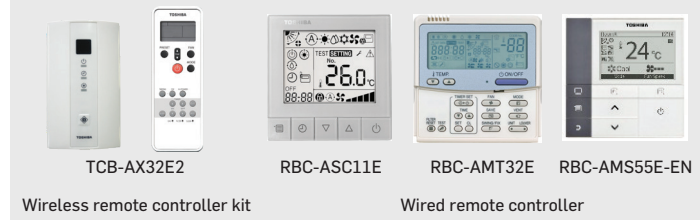
Built-in high-lift drain pump

The flexible piping layout is made possible by a standard available drain-pump kit that raises the drain piping up to 850mm. from the drain port.

High static pressure

External static pressure can be raised as high as 180Pa, so that all areas of the room can be reached for even temperature distribution, no matter how complex the layout.

Remote Control



Standard duct

Specifications

Cooling only

Model		Indoor unit		RAV-SH1801BP-2B	RAV-SH2401BP-2B	RAV-SH3001BP-2B	RAV-SH3601BP-2B	RAV-SH4801BP-2B
		Outdoor unit		RAV-SHB1801AP-2B	RAV-SHB2401AP-2B	RAV-SHB3001AP-2B	RAV-SHB3601AP-2B	RAV-SHB4801AP-2B
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz				3Phase 380-415V 50Hz, 380-400V 60Hz
Cooling capacity	T1	Capacity	(kW)	5.28 < 1.6 - 6.0 >	6.60 < 2.0 - 8.0 >	8.80 < 3.0 - 10.0 >	10.1 < 3.0 - 11.2 >	12.5 < 4.0 - 15.9 >
		Power consumption	(kW)	1.46	1.91	2.48	2.92	3.62
		EER	(Btu/h.W)	12.30	11.80	12.10	11.80	11.80
	T3	Capacity	(kW)	4.50	5.61	7.50	8.60	11.00
		Power consumption	(kW)	1.85	2.31	3.09	3.52	4.51
		EER	(Btu/h.W)	8.30	8.30	8.30	8.30	8.30
Indoor unit specifications								
Outer dimension	Main unit	Height	(mm)	275	275	275	298	298
		Width	(mm)	1000	1000	1400	1400	1400
		Depth	(mm)	750	750	750	750	750
Total weight	Main unit		(kg)	30.0	30.0	40.0	42.0	42.0
Fan		Centrifugal fan						
Standard air flow	H/M/L		(m ³ /h)	1500 / 1200 / 800	1500 / 1350 / 900	2000 / 1700 / 1200	2300 / 2000 / 1400	3000 / 2700 / 1560
Sound pressure level	H/M/L		(dB)	41 / 38 / 33	41 / 39 / 36	42 / 41 / 38	44 / 43 / 39	53 / 50 / 41
External static pressure	Standard (Upper - Lower)		(Pa)	30 (120-30)	30 (120-30)	50 (160-30)	50 (180-30)	50 (180-30)
Outdoor unit specifications								
Heat Exchanger				Cu-Al				
Outer dimension	Main unit	Height	(mm)	550	630	890	890	1340
		Width	(mm)	780	800	900	900	900
		Depth	(mm)	290	300	320	320	320
Total weight	Main unit		(kg)	41.0	46.0	69.0	71.0	102.0
Pipe	Min. length		(m)	5	5	5	5	5
	Max. total length		(m)	35	35	35	35	50
Flare Connections	Gas side		(mm)	12.7	15.9	15.9	15.9	15.9
	Liquid side		(mm)	6.4	9.5	9.5	9.5	9.5
Refrigerant				R410A				
Sound pressure level	Cooling		(dB)	47	52	54	57	63
Operating Range	Cooling		(°C)	21 / 54				

Heat pump

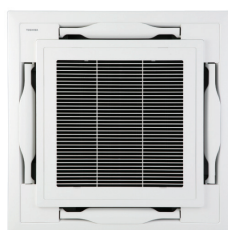
Model		Indoor unit		RAV-SH1801BTP-2B	RAV-SH2401BTP-2B	RAV-SH3001BTP-2B	RAV-SH3601BTP-2B	RAV-SH4801BTP-2B
		Outdoor unit		RAV-SHB1801ATP-2B	RAV-SHB2401ATP-2B	RAV-SHB3001ATP-2B	RAV-SHB3601ATP-2B	RAV-SHB4801ATP-2B
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz				3Phase 380-415V 50Hz, 380-400V 60Hz
Cooling capacity	T1	Capacity	(kW)	5.28 < 1.6 - 6.0 >	6.60 < 2.0 - 8.0 >	8.80 < 3.0 - 10.0 >	10.1 < 3.0 - 11.2 >	12.5 < 4.0 - 15.9 >
		Power consumption	(kW)	1.46	1.91	2.48	2.92	3.62
		EER	(Btu/h.W)	12.30	11.80	12.10	11.80	11.80
	T3	Capacity	(kW)	4.50	5.61	7.50	8.60	11.00
		Power consumption	(kW)	1.85	2.31	3.09	3.52	4.51
		EER	(Btu/h.W)	8.30	8.30	8.30	8.30	8.30
Heating capacity	H1	Capacity	(kW)	6.0 < 1.6 - 6.5 >	8.0 < 2.7 - 9.4 >	9.3 < 2.5 - 10.6 >	10.1 < 3.0 - 11.6 >	16.0 < 4.2 - 19.0 >
		Power consumption	(kW)	1.45	2.16	2.42	2.97	4.57
		EER	(Btu/h.W)	14.19	12.64	13.25	11.58	11.93
Indoor unit specifications								
Outer dimension	Main unit	Height	(mm)	275	275	275	298	298
		Width	(mm)	1000	1000	1400	1400	1400
		Depth	(mm)	750	750	750	750	750
Total weight	Main unit		(kg)	30.0	30.0	40.0	42.0	42.0
Fan		Centrifugal fan						
Standard air flow	H/M/L		(m ³ /h)	1500 / 1200 / 800	1500 / 1350 / 900	2000 / 1700 / 1200	2300 / 2000 / 1400	3000 / 2700 / 1560
Sound pressure level	H/M/L		(dB)	41 / 38 / 33	41 / 39 / 36	42 / 41 / 38	44 / 43 / 39	53 / 50 / 41
External static pressure	Standard (Upper - Lower)		(Pa)	30 (120-30)	30 (120-30)	50 (160-30)	50 (180-30)	50 (180-30)
Outdoor unit specifications								
Heat Exchanger				Cu-Al				
Outer dimension	Main unit	Height	(mm)	550	630	890	890	1340
		Width	(mm)	780	800	900	900	900
		Depth	(mm)	290	300	320	320	320
Total weight	Main unit		(kg)	41.0	46.0	69.0	71.0	102.0
Pipe	Min. length		(m)	5	5	5	5	5
	Max. total length		(m)	35	35	35	35	50
Flare Connections	Gas side		(mm)	12.7	15.9	15.9	15.9	15.9
	Liquid side		(mm)	6.4	9.5	9.5	9.5	9.5
Refrigerant				R410A				
Sound pressure level	Cooling / Heating		(dB)	47 / 51	52 / 55	54 / 56	57 / 57	63 / 63
Operating Range	Cooling		(°C)	21 / 54				
	Heating		(°C)	-10 / 24				

T1 Rated conditions Cooling: Indoor air temperature 27°C DB / 19°C WB, Outdoor air temperature 35°C DB
 T3: Indoor temperature @ 27° CDB / 19° CWB & outdoor temperature @ 46° CDB



4-way cassette

RAV-SH****UP
RAV-SH****UTP



RBC-U31PGXP(W)-IN1



> Features

Efficiency

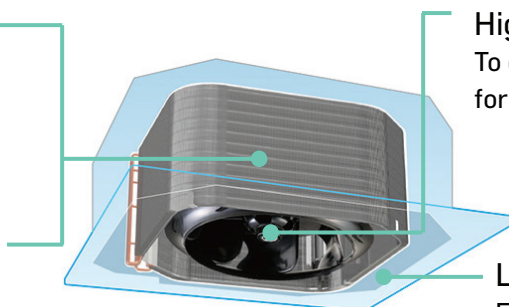
Various energy saving technologies are implemented on "4-Way inverter Cassette" to improve the efficiency.

Magic coil

To maintain the performance of energy saving by flush oil and dirt with dew condensation water.

Long slit of heat exchanger

To improve heat transfer rate by mixing airflow with long slit of heat exchanger.



High efficient DC Fan motor

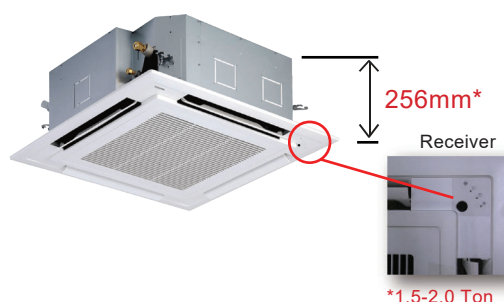
To optimize DC Fan motor for fan & heat exchanger.

Large opening of AC vent

Enlarging the AC vent to reduce the noise caused by large air volume.

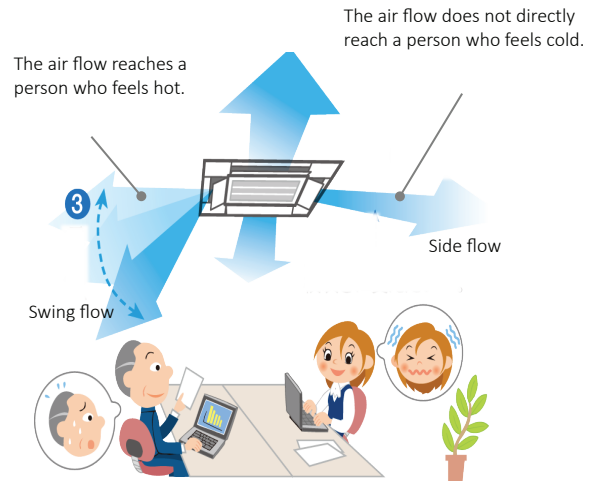
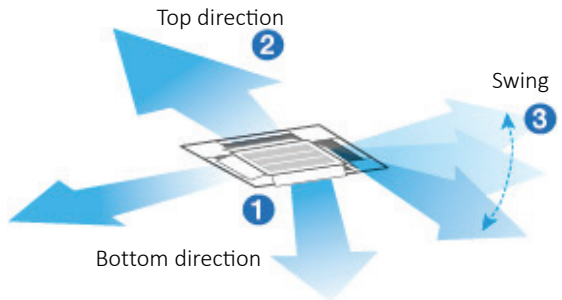
Compact sizing

Compact size especially in height (256mm), offers wide range of installation opportunities to customer.



Comfort

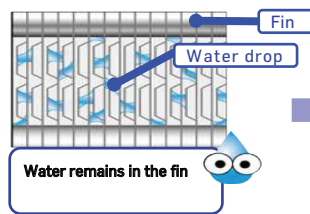
Each louver can be controlled individually, so that suitable setting for each direction can be realized.



Self clean operation

The mechanism of the wash-off by aqua-resin coated indoor unit's fins.

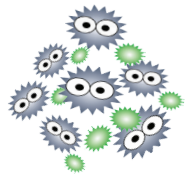
General heat exchanger



Dust stick



Mold spread

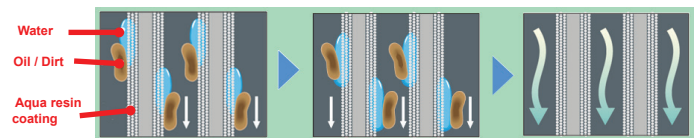


Dust accumulates after a long-time operation !

Magic coil in FCU by Aqua resin coated

The aqua resin coating prevents dirt from sticking to the fins. Condensation water flows washes away dirt. After washing, a drying operation suppresses the propagation of mold.

Magic Coil heat exchanger



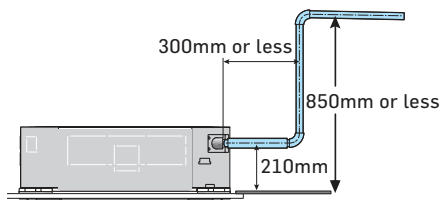
Fireproof electrical enclosure

Fully fireproof electrical enclosure for both indoor and outdoor unit ensure safety by preventing spread of fire, explosion, fire-burn and spread.



850mm drain pump

Drain can be discharged upwards by 850mm from the ceiling surface. It allows a piping layout with a high degree of freedom depending on the installation location.



Remote Control



Wireless Remote (Standard)



RBC-ASC11E



RBC-AMT32E



RBC-AMS55E-EN

Wired remote controller

4-Way Cassette

Specifications

Cooling only

Model		Indoor unit		RAV-SH1801UP-2B	RAV-SH2401UP-2B	RAV-SH3001UP-2B	RAV-SH3601UP-2B	RAV-SH4801UP-2B
		Outdoor unit		RAV-SHU1801AP-2B	RAV-SHU2401AP-2B	RAV-SHU3001AP-2B	RAV-SHU3601AP-2B	RAV-SHU4801AP-2B
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz				3Phase 380-415V 50Hz, 380-400V 60Hz
Cooling capacity	T1	Capacity	(kW)	5.28 < 1.6 - 6.0 >	7.05 < 2.0 - 8.0 >	8.80 < 3.0 - 10.0 >	10.6 < 3.0 - 11.2 >	12.5 < 4.0 - 15.9 >
		Power consumption	(kW)	1.46	2.06	2.45	2.97	3.62
		EER	(Btu/h.W)	12.20	11.80	12.25	12.20	11.80
	T3	Capacity	(kW)	4.50	6.06	7.50	9.10	11.00
		Power consumption	(kW)	1.85	2.49	3.09	3.74	4.51
		EER	(Btu/h.W)	8.30	8.30	8.30	8.30	8.30
Indoor unit specifications								
Outer dimension	Main unit	Height	(mm)	256	256	319	319	319
		Width	(mm)	840	840	840	840	840
		Depth	(mm)	840	840	840	840	840
	Ceiling panel (Sold separately)	Height	(mm)	30	30	30	30	30
		Width	(mm)	950	950	950	950	950
		Depth	(mm)	950	950	950	950	950
Ceiling panel (Sold separately)				Model : RBC-U31PGXP(W)-IN1				
Total weight	Main unit	(kg)	20.0			24.0		
	Ceiling panel (Sold separately)	(kg)				4.2		
Fan				Turbo fan				
Standard air flow	H/M/L	(m ³ /h)	1050 / 870 / 780	1230 / 960 / 810	2100 / 1440 / 1170	2150 / 1500 / 1260	2300 / 1840 / 1500	
Sound pressure level	H/M/L	(dB)	37 / 36 / 34	40 / 37 / 36	46 / 42 / 37	47 / 43 / 39	49 / 45 / 43	
Outdoor unit specifications								
Heat Exchanger				Cu-Al				
Outer dimension	Height	(mm)	550	630	890	890	1340	
	Width	(mm)	780	800	900	900	900	
	Depth	(mm)	290	300	320	320	320	
Total weight	Main unit	(kg)	41.0	46.0	69.0	71.0	102.0	
	Pipe	Min. length	(m)	5	5	5	5	5
Flare Connections	Max. total length	(m)	35	35	35	35	50	
	Gas side	(mm)	12.7	15.9	15.9	15.9	15.9	
	Liquid side	(mm)	6.4	9.5	9.5	9.5	9.5	
Refrigerant			R410A					
Sound pressure level	Cooling	(dB)	47	52	54	57	63	
Operating Range	Cooling	(°C)	21 / 54					

Heat pump


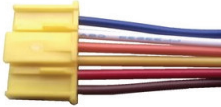

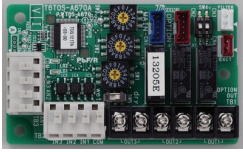

Model		Indoor unit		RAV-SH1801UTP-2B	RAV-SH2401UTP-2B	RAV-SH3001UTP-2B	RAV-SH3601UTP-2B	RAV-SH4801UTP-2B
		Outdoor unit		RAV-SHU1801ATP-2B	RAV-SHU2401ATP-2B	RAV-SHU3001ATP-2B	RAV-SHU3601ATP-2B	RAV-SHU4801ATP-2B
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz				3Phase 380-415V 50Hz, 380-400V 60Hz
Cooling capacity	T1	Capacity	(kW)	5.28 < 1.6 - 6.0 >	7.05 < 2.0 - 8.0 >	8.80 < 3.0 - 10.0 >	10.6 < 3.0 - 11.2 >	12.5 < 4.0 - 15.9 >
		Power consumption	(kW)	1.46	2.06	2.45	2.97	3.62
		EER	(Btu/h.W)	12.20	11.80	12.25	12.20	11.80
	T3	Capacity	(kW)	4.50	6.06	7.50	9.10	11.00
		Power consumption	(kW)	1.85	2.49	3.09	3.74	4.51
		EER	(Btu/h.W)	8.30	8.30	8.30	8.30	8.30
Heating capacity	H1	Capacity	(kW)	6.0 < 1.6 - 6.5 >	8.0 < 2.7 - 9.4 >	9.3 < 2.5 - 10.6 >	10.6 < 3.0 - 11.6 >	16.0 < 4.2 - 19.0 >
		Power consumption	(kW)	1.45	2.16	2.42	3.12	4.57
		EER	(Btu/h.W)	14.19	12.64	13.25	11.61	11.93
Indoor unit specifications								
Outer dimension	Main unit	Height	(mm)	256	256	319	319	319
		Width	(mm)	840	840	840	840	840
		Depth	(mm)	840	840	840	840	840
	Ceiling panel (Sold separately)	Height	(mm)	30	30	30	30	30
		Width	(mm)	950	950	950	950	950
		Depth	(mm)	950	950	950	950	950
Ceiling panel (Sold separately)				Model : RBC-U31PGXP(W)-IN1				
Total weight	Main unit	(kg)	20.0			24.0		
	Ceiling panel (Sold separately)	(kg)				4.2		
Fan				Turbo fan				
Standard air flow	H/M/L	(m ³ /h)	1050 / 870 / 780	1230 / 960 / 810	2100 / 1440 / 1170	2150 / 1500 / 1260	2300 / 1840 / 1500	
Sound pressure level	H/M/L	(dB)	37 / 36 / 34	40 / 37 / 36	46 / 42 / 37	47 / 43 / 39	49 / 45 / 43	
Outdoor unit specifications								
Heat Exchanger				Cu-Al				
Outer dimension	Height	(mm)	550	630	890	890	1340	
	Width	(mm)	780	800	900	900	900	
	Depth	(mm)	290	300	320	320	320	
Total weight	Main unit	(kg)	41.0	46.0	69.0	71.0	102.0	
	Pipe	Min. length	(m)	5	5	5	5	5
Flare Connections	Max. total length	(m)	35	35	35	35	50	
	Gas side	(mm)	12.7	15.9	15.9	15.9	15.9	
	Liquid side	(mm)	6.4	9.5	9.5	9.5	9.5	
Refrigerant			R410A					
Sound pressure level	Cooling / Heating	(dB)	47 / 51	52 / 55	54 / 56	57 / 57	63 / 63	
Operating Range	Cooling	(°C)	21 / 54					
	Heating	(°C)	-10 / 24					

T1: Rated conditions Cooling: Indoor air temperature 27°C DB / 19°C WB, Outdoor air temperature 35°C DB

T3: Indoor temperature @ 27° CDB / 19° CWB & outdoor temperature @ 46° CDB

CONTROLS

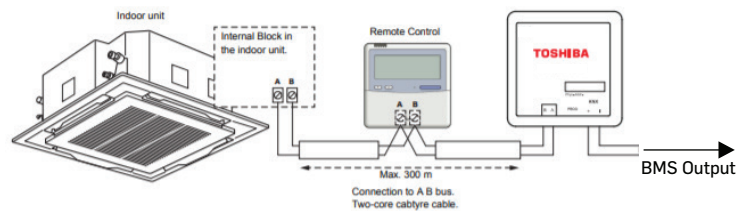
Optional Accessories

Connector No	Picture	Pin No	Specification	Application	RAV-SH***BP RAV-SH***BTP	RAV-SH***UP RAV-SH***UTP
TCB-KBCN32VEE		1	DC12 V	External Ventilation Fan Controls	YES	YES
		2	Output			
TCB-KBCN61HAE		1	Start / stop input	1. Hotel Key Card 2. Fire Panel Interlock 3. BMS/DDC/PLC Interlock - ON-OFF Command (Dry Contact) - RUN Output (12VDC) - Alarm Output (12VDC)	YES	YES
		2	0V(COM)			
		3	Prohibition Input			
		4	Operation output			
		5	DC12 V (COM)			
		6	Alarm output			
TCB-KBCN60OPE		1	DC12 V (COM)	BMS/DDC/PLC Interlock 1. Defrosting output (12VDC) 2. Thermostat ON output (12VDC) 3. Cooling output (12VDC) 4. Heating Output (12VDC) 5. Fan Output (12VDC)	YES	NO
		2	Defrosting output			
		3	Thermostat ON output			
		4	Cooling output			
		5	Heating output			
		6	Fan output			
TCB-PCUC2E		IN1	External Error Input	BMS/DDC/PLC Interlock	NO	YES
		IN1	Prohibition Input resistance			
		AI1	Operation Input resistance			
		AI2	Setpoint input resistance			
		AI3	Fan speed Input resistance			
		K1	Configurable Output 1			
		K2	Configurable Output 2			
		K3	Configurable Output 3			
TCB-PCNT30TLE2			TCC-Link	TCB-PCNT30TLE TCC-Link network adaptor enables RAV systems to interface with central controllers and BMS systems.	YES	YES

Optional BMS Interface

LC Indoor units can be integrated with Building Management System using Optional BMS Interface.

1. BMS-IFMB0TLR-E - Modbus RTU (1:1) BMS Interface
2. BMS-IFKX0TLR-E KNX TP (1:1) BMS Interface



Compatibility

Model Number	RBC-AMT32E	RBC-AMS41E	RBC-ASC11E	RBC-AMS55E-EN
BMS-IFKX0TLR-E	Yes	Yes	No	No
BMS-IFMB0TLR-E	Yes	Yes	No	No

TOSHIBA



Better Air Solutions

