

TOSHIBA

Leading Innovation >>>

Better air

Leading the new era in air conditioning



TOSHIBA

Leading Innovation >>>

「Stylish New Designs」 New

Toshiba's modern and stylish look complements any interior, while the moon-white finish reflects sophistication and taste.



「Clearin

As human activities accelerate, the impact on the environment is increasing. Sustainable solutions require a low environmental impact?

Toshiba is making a positive contribution to the government to think big.

「Toshiba Air



Our products comply with the RoHS Regulation, which prohibits the use of certain hazardous substances in electrical and electronic components.



ng the air for generations to come

Accelerate climatic change, scientists foresee limits to how much damage the ecology can take. We require stronger commitment to global priorities. How far and fast are people willing to have less

positive difference to the ecology in a big way. We lead initiatives with innovators in academia, industry and together, act bolder and move faster towards more environmentally sustainable solutions.

Airconditioning, we care about Better Air...

Products comply with regulations, ensuring a reduction of restricted substances in every material component.



With the fast increasing waste stream, we aim to minimize the impact of electronic goods on the environment. Such inspiration leads us to limit the quantity of waste going to final disposal by **applying plastic that can be recycled.**



Our commitment is to save the earth and increase savings with digital technology that provides superior control and cost efficiency with the DC inverter compressor. Super-accurate rotation of an environmentally sustainable compressor results in power **savings of up to 50%*** (compared to AC Fixed Speed compressors) and quieter operation.

*13k Btu Inverter vs. 13k Btu Fixed Speed product

TOSHIBA

Leading Innovation >>>



INVERTER



When technology meets comfort

No Ozone Depletion

Quiet

Comfort

Powerful

Energy Saving



Toshiba was the first company to incorporate inverter technology into air conditioning systems in 1981 and since then it has always maintained a technological advantage over its competitors.

The development of the new and exclusive **DC Hybrid Inverter** system has reaffirmed this ability to innovate and maintain technological leadership in a fast-growing market. But for Toshiba, innovation also means a strong commitment to international institutions that carefully evaluate the impact of new technologies on our environment.

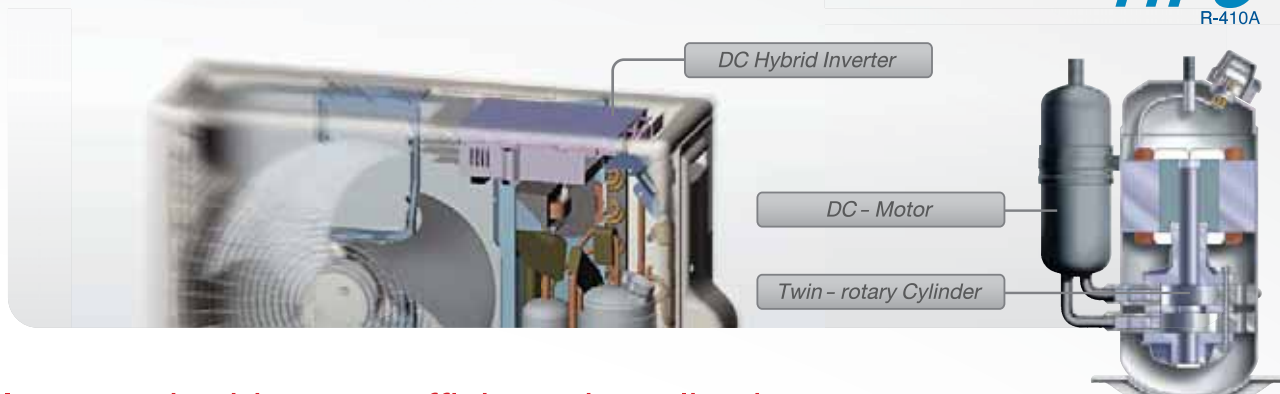
Toshiba combines technological development with care for future generations, the result is a range of extremely **energy-efficient air conditioners**, reducing greenhouse gas emissions from the source.

Toshiba continuous research developed **PWM** technology, which is used together with the traditional **PAM** control. The application of these two distinct technologies allows total control of performance and energy use.

Inverter Technology & Energy Saving



DC Twin-Rotary Compressor



Increased, wide range efficiency is realized.

This compressor enables the adoption of a high-pressure refrigerant. High efficiency is evident in low speed operation ranges. It can reduce energy consumption when operated in a long stable conditions.

High Efficiency

Rotation with two rollers at the same time, makes accurate compressor rotation possible with less energy loss. As a result, it offers a great reduction in energy consumption yet with very powerful operation

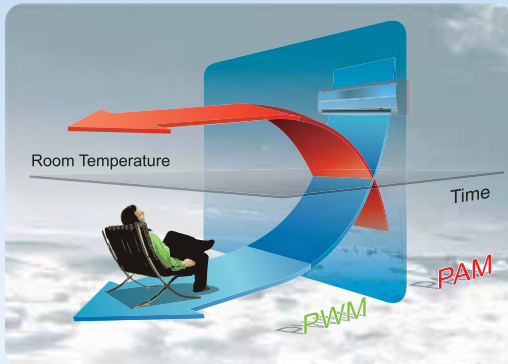
High reliability & Low Noise

The enhanced DC Twin-rotary compressor delivers stable performance with minimum friction. Ideal for noise-sensitive applications. The sound of the outdoor unit is almost imperceptible.

Toshiba DC Hybrid Inverter Technology

A New Dimension in Efficient Performance

Unique Hybrid Design



High power

PAM works like a turbo engine in a car. It will set the compressor at the maximum power, providing fast cooling in order to achieve the desired room temperature when the air conditioner is switched on.



High efficient

PWM helps to balance the compressor speed revolution either high speed when providing fast cooling or slow speed when maintaining room temperature. So, like Cruise control in a car, it results in significantly less energy consumption.

The former provides the highest levels of power while the latter ensures the desired room temperature and energy efficiency. As a hybrid, the Toshiba Inverter System features the best of both.

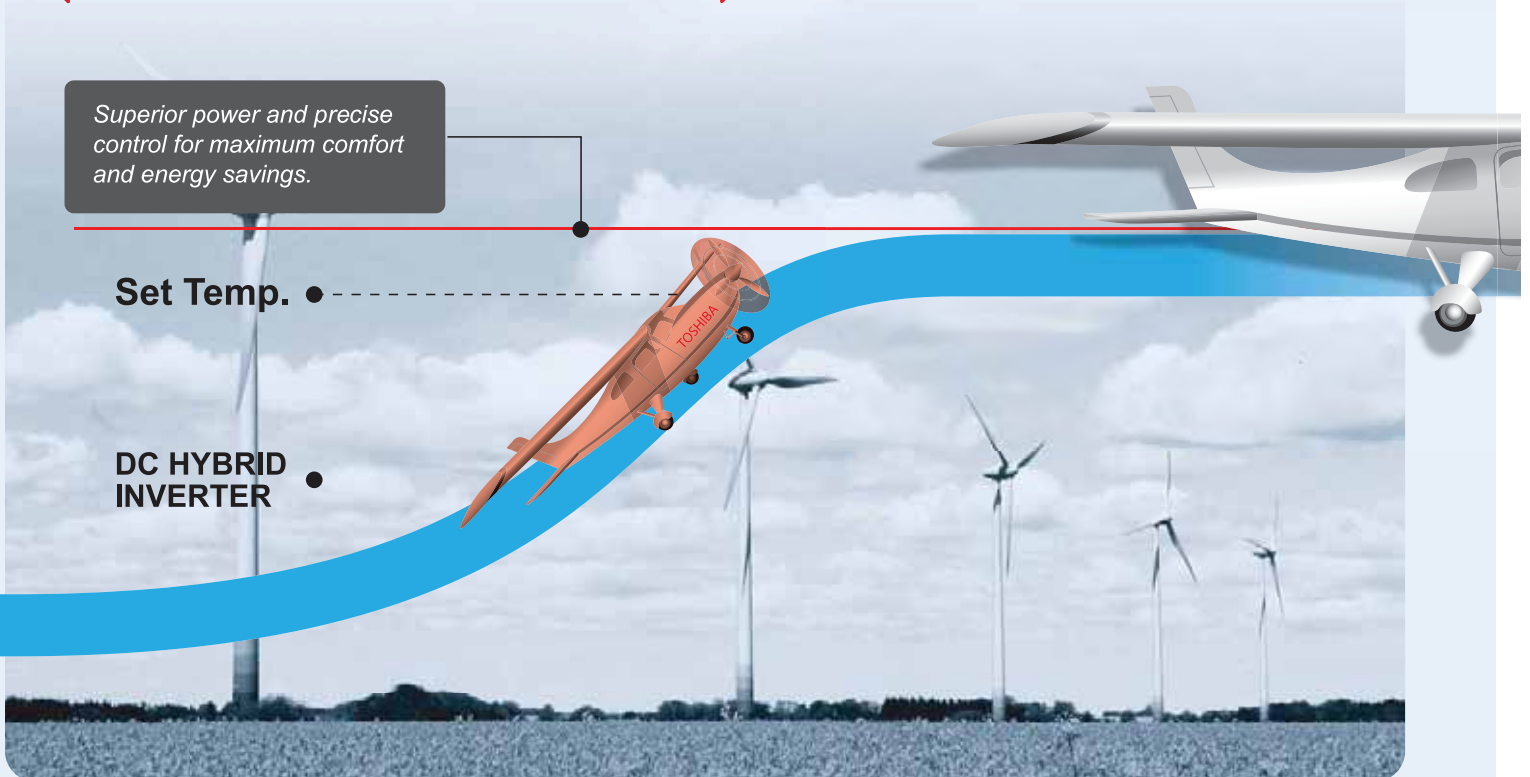
Toshiba DC Hybrid Inverter system



Superior power and precise control for maximum comfort and energy savings.

Set Temp. ●

DC HYBRID INVERTER ●



Benefits of the Toshiba DC Hybrid Inverter system

Energy saving

Digital technology provides superior control and cost efficiency with the DC Inverter compressor when compared to AC Fixed Speed compressors. Super-accurate rotation of an environmentally sustainable compressor results in power savings of up to 50%* and quieter operation.

Comparison of energy consumption

Fixed Speed



Inverter



Testing Condition

Indoor temperature : Starting from 35°C until it reaches a set-point temperature 25°C.
 Ambient temperature : Vary between 28 and 30°C by every 2 hours period.
 Testing period : More than 8 hours.



Comfort



High power



No ozone Depletion

Comfort

Toshiba's DC Hybrid Inverter uses a Twin Rotary compressor**, which ensures a steadier rotation therefore reducing the unwanted vibration sound.

High power

PAM drives high power to ensure the fastest achievement of the set temperature.

No ozone Depletion

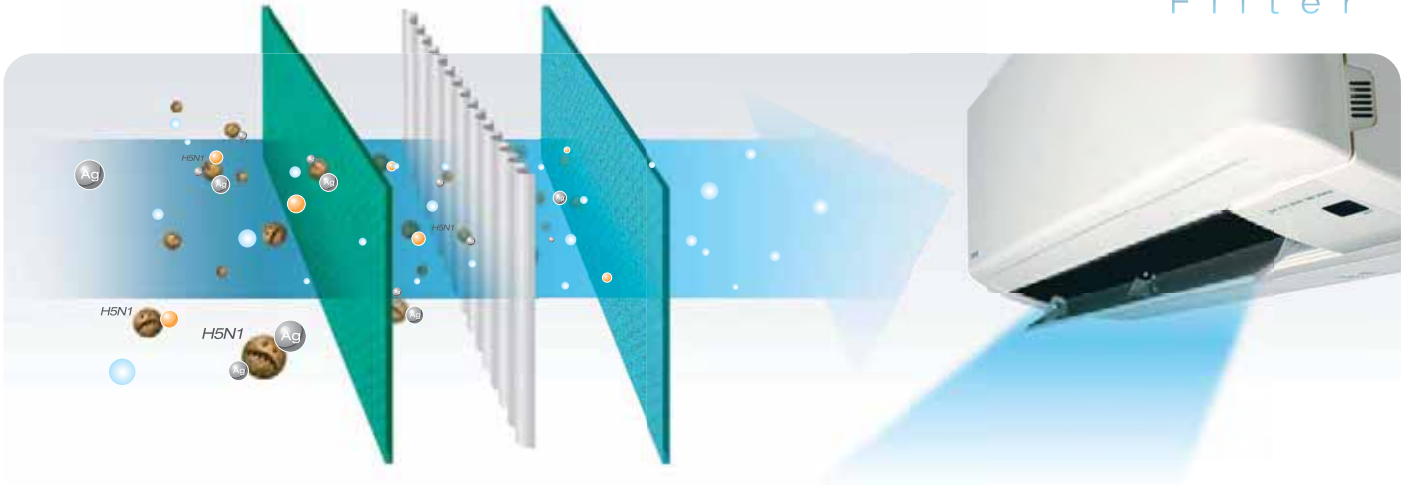
At Toshiba, our concerns for the environment have led us to use the R-410a refrigerant, which is confirmed to be non-ozone depleting, non-flammable and non-toxic.

*13k Btu Inverter vs. 13k Btu Fixed Speed product

**Applicable to RAS-10,13,18,22,24N3KCV/N3ACV Series



Technology for health through



Toshiba IAQ* filter

Toshiba IAQ's technology is able to seriously inhibit the reproductive ability of **harmful bacteria and viruses such as H5N1 Avian Influenza**. With Toshiba IAQ, your family can breathe easy and your house will look like as if it has been spring cleaned.

Anti Bacteria and Anti Virus



- Anti bacteria* : destroys up to 99.9% of bacteria
- Deodorizing power : Absorbs and decomposes smoke, ammonia, volatile organics, food smells and bad odors
- Prevent mould formation : Inhibits the formation of mould and fungi



- Anti virus** : Avian Influenza virus (H5N1)



* Improve air hygiene by reducing the amount of bacteria and viruses. However, does not guarantee a sterilized room or protection against infection after using the filter.

* Korea Apparel Testing & Research Institute, BS05-00001771
**Betagro Science Center Co., Ltd., 900017366

Your health is our main concern

Today, we spend more time in the air conditioned room, either in the office or at home, "Clean airflow" means you can breathe with greater confidence.

Self Cleaning Function

This function is designed to reduce the humidity that causes mould to form inside an air-conditioning unit.



It simply refreshes you in a natural way.

When you turn off your air conditioner, an internal fan automatically activates to dry out the coil. This removes the moisture, which causes mould to form.

5 **10** **15** **20**

Normal Operation *Mould Reduction*
Moisture stays trapped inside during operation.

COOL AIR-FLOW

Self-Cleaning Function
20 minutes of fan operation after shut down dries the moist air and helps reduce mould formation.

NATURAL AIR-FLOW

Natural Air-Flow

Comfort & Health

Hi Power

Hi Power mode makes your room cool faster yet quiet when operating

When you come home on the hot day, just press on the "Hi-Power" button, Toshiba's extra airflow rapidly deliver extra cooling throughout the room without making undesired noise



Comfort & Health

Toshiba Research Center understands your needs



One Touch My Comfort

Toshiba has assessed user preferences in your region of the world to ensure that our need can be fully catered for. The One touch My Comfort features customized temperature and airflow settings, which will deliver you ultimate comfort with one simple touch of the button.

Comfort Sleep

Awake in the middle of the night because you felt the room is too cold? Do you feel too cold during sleeping at night?

With Toshiba's convenience feature, when you activate the Comfort Sleep button, your air-conditioning system will compensate for naturally lower night air temperatures so you can sleep in complete comfort

Real time on-off

We design Real time on-off feature, which can set on and off times or program a setting to repeat every 24 hours.

Comfort & Health

Your health is our main concern

Today, more and more, we spend time in the air conditioned room, either in the office or at home, "clean airflow" means you can breathe with greater confidence.

Self Cleaning Function

Same contents, but create more illustrations to explain the feeling

- Uncomfortable (smelly) if there is no self-cleaning function.
- Comfortable if having self-cleaning function.

**SELF
CLEANING**



It simply refreshes you in a natural way.



20 minutes of fan operation after shut down, dries the moist air and helps reduce mould formation.



When you turn off your air conditioner an internal fan automatically activates to dry out the coil. This removes the moisture which causes mould to form.

Easy Maintenance from Stylish Front Grille

Regularly cleaning the air conditioner and filter, we can have a positive influence on healthy indoor environment - cleaner airflow, better capacity, and more money saving on electricity bill.



- The smooth grille makes for easy cleaning just sponge, rinse and leave to dry in the shade.



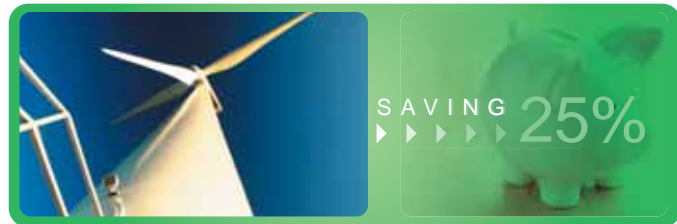
Comfort & Health

Eco-Logic

Achieve energy-savings of up to 25% compared with standard setting without sacrificing comfort.



Only push "ECO" button



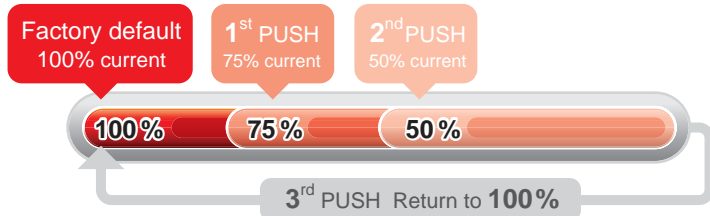
Cooling only The temperature is raised by 1°C after 1 hour and another degree after 2 hours, which will be maintained until switching off.

Power Select mode

Easy steps to activate.



Only push "POWER SEL" button



The latest feature helps make today's lifestyle more comfortable as it offers the benefit of saving electricity. POWER SEL* button, gives you the freedom to control power consumption of the air conditioner from a remote control by preventing high power operation. It helps you when you would like to avoid electricity black out, and need electricity for other appliances etc.

*Applicable to selected single split models only

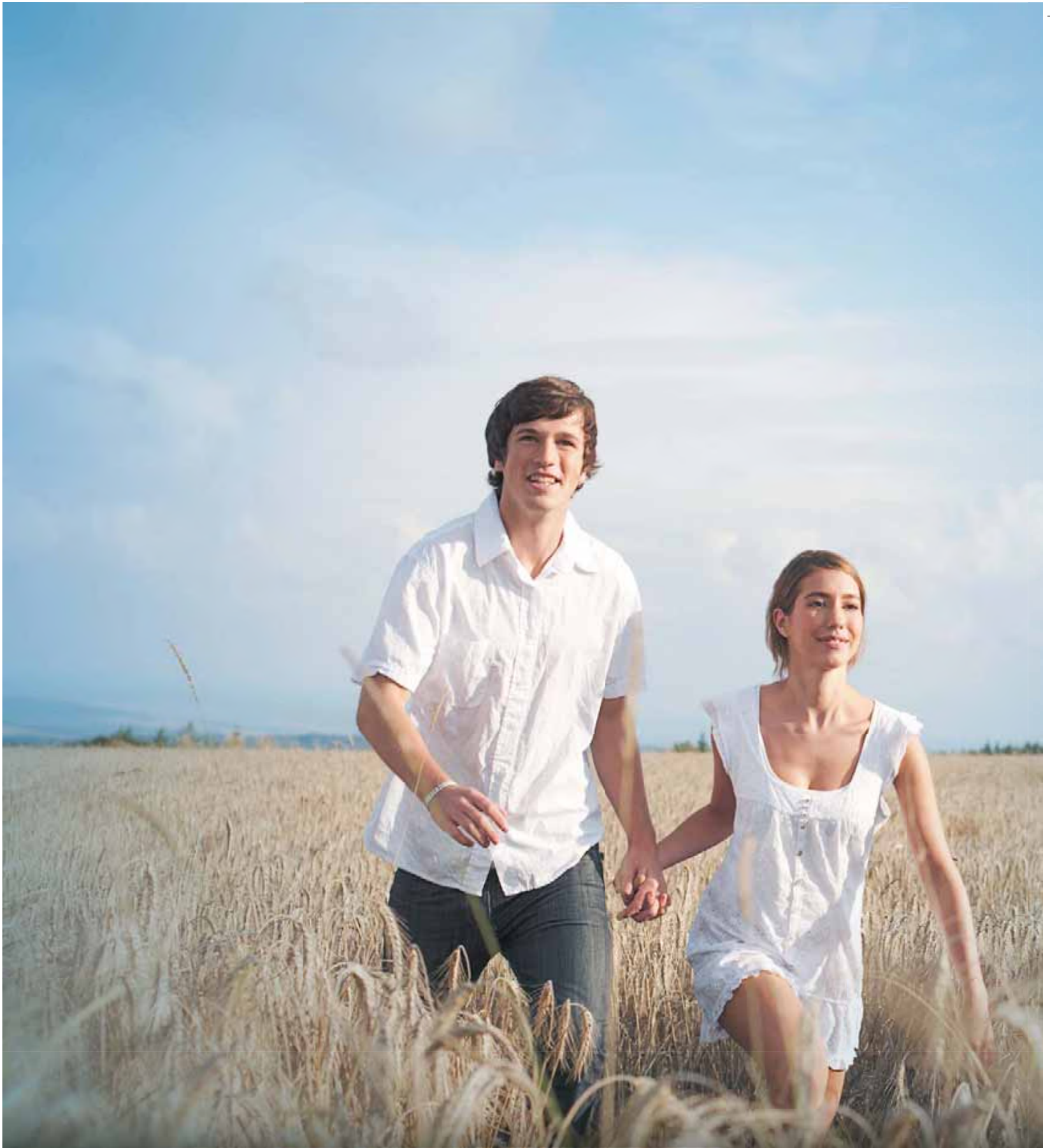


- In the previous design, dust collects on the grille which is difficult to clean. The collection of dust increases the suction resistance, which results in capacity reduction and higher noise level.

With the new design, dust collection on the pre-filter, which is easily to take off and wash in luke warm water.



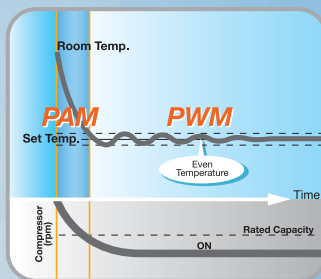
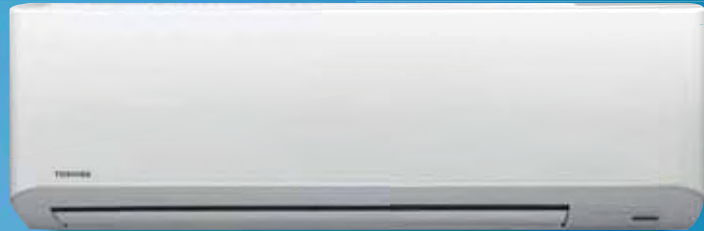
- The vertical louver can be taken off to wash and clean the inside cross flow fan.



Single Split Type

Single Inverter

Toshiba DC Hybrid Inverter



Toshiba DC (Direct Current) Hybrid Inverter, the advanced digital technology in air conditioning system, is easily implied as a perfect control of power. It operates to reach maximum power rapidly and also maintains the desired temperature constantly by intelligently varying the electrical current frequency to modulate the rotation of the compressor. As a result, it is the solution that eliminates highly fluctuated temperature that you used to be uncomfortable with.

Superior power and precise control for maximum comfort and energy savings.

Energy saving • Powerful & Precise • Environmentally Friendly

Product Line Up

Cool, clean comfort can grace every room in your home thanks to Toshiba technology. Breathtaking advances in air-conditioning features mean you can breathe with greater confidence. New stylish, compact and cost-efficient models are enhanced by Toshiba technology and advanced Total Quality System.

Single Inverter



COOL ONLY

RAS-10N3KCV
10,000 BTU / 2.50 (1.10 - 3.00) kW



RAS-10N3ACV



COOL ONLY

RAS-13N3KCV
13,000 BTU / 3.50 (1.10 - 4.00) kW
RAS-18N3KCV
18,000 BTU / 5.00 (1.10 - 6.00) kW
RAS-22N3KCV
22,000 BTU / 5.80 (1.20 - 6.50) kW



RAS-13N3ACV
RAS-18N3ACV
RAS-22N3ACV



COOL ONLY

RAS-24N3KCV
24,000 BTU / 6.50 (1.50 - 7.70) kW



RAS-24N3ACV



Inverter Advanced Features



One Touch Preset



Quiet



Swing & Fix Louver



Comfort Sleep



One Touch My Comfort



Timer



Fan Speed



IR Selectable remote



Toshiba New IAQ



Auto Diagnosis



Eco-Logic

Single Inverter

Specifications

Inverter Hiwall Single Split Type

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

System	Cool Only (R-410)				
Model (Indoor Unit)	RAS-10N3KCV	RAS-13N3KCV	RAS-18N3KCV	RAS-22N3KCV	RAS-24N3KCV
(Outdoor Unit)	RAS-10N3ACV	RAS-13N3ACV	RAS-18N3ACV	RAS-22N3ACV	RAS-24N3ACV
Power Supply (V/ph/Hz)	220-240/1/50				
Cooling Capacity (kW)	2.50(1.10-3.00)	3.50(1.10-4.00)	5.00(1.10-6.00)	5.80(1.20-6.50)	6.50(1.50-7.70)
COP	3.33(4.31-3.11)	3.27(4.40-3.01)	3.52(6.11-3.00)	3.33(6.00-2.95)	3.42(5.00-2.66)
Power Consumption (Cooling) (kW)	0.75(0.255-0.965)	1.07(0.25-1.33)	1.42(0.18-2.00)	1.74(0.20-2.20)	1.90(0.30-2.90)
Operating Current (Cooling) (A)	3.45(1.58-4.42)	4.85(1.36-5.90)	6.39(1.06-8.92)	7.81(1.18-9.81)	8.69(1.78-12.85)
Indoor Unit	RAS-10N3KCV	RAS-13N3KCV	RAS-18N3KCV	RAS-22N3KCV	RAS-24N3KCV
Dimension (HxWxD) (mm)	250x740x195	275x790x225	320x1050x243	320x1050x243	320x1050x243
Net weight (kg)	8	10	14	13	13
Airflow volume (m ³ /h)	522	564	858	1188	1098
Fan Motor Output (W)	20	20	30	30	30
Operating Noise (H/M/L), (H/M+/M/L+/L) (dB)	38/35/33/31/29	39/36/33/30/26	44/41/38/35/32	49/45/42/39/35	47/45/42/39/36
Outdoor Unit	RAS-10N3ACV	RAS-13N3ACV	RAS-18N3ACV	RAS-22N3ACV	RAS-24N3ACV
Dimension (HxWxD) (mm)	530x660x240	550x780x290	550x780x290	550x780x290	890x900x320
Net weight (kg)	26	33	36	36	65
Compressor Output (W)	750	750	1100	1100	2000
Fan Motor Output (W)	20	43	43	43	60
Operating Noise (dB)	48	48	49	52	52
Pipe Size					
Liquide Size (mm/inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	9.52(3/8")
Gas Size (mm/inch)	9.52(3/8")	9.52(3/8")	12.70(1/2")	12.70(1/2")	15.88(5/8")
Coupler Style	Flare	Flare	Flare	Flare	Flare
Drain (Inside Dia. mm)	16.3	16.3	16.3	16.3	16.3
Max. Piping Length (m)	10	20	20	20	30
Chargeless Length (m)	10	15	15	15	20
Max. Piping Height (m)	8	10	10	10	20
Usable Outdoor Temp (Cooling, °C)	15-43	10-46	10-46	10-46	10-46



Hi-Power



Auto restart



Add-Chargeless



Automatic Changeover (Cool/Dry)



Dry (Dehumidifying) Function



Automatic 3 mins Delay Safety Control



Washable front panel



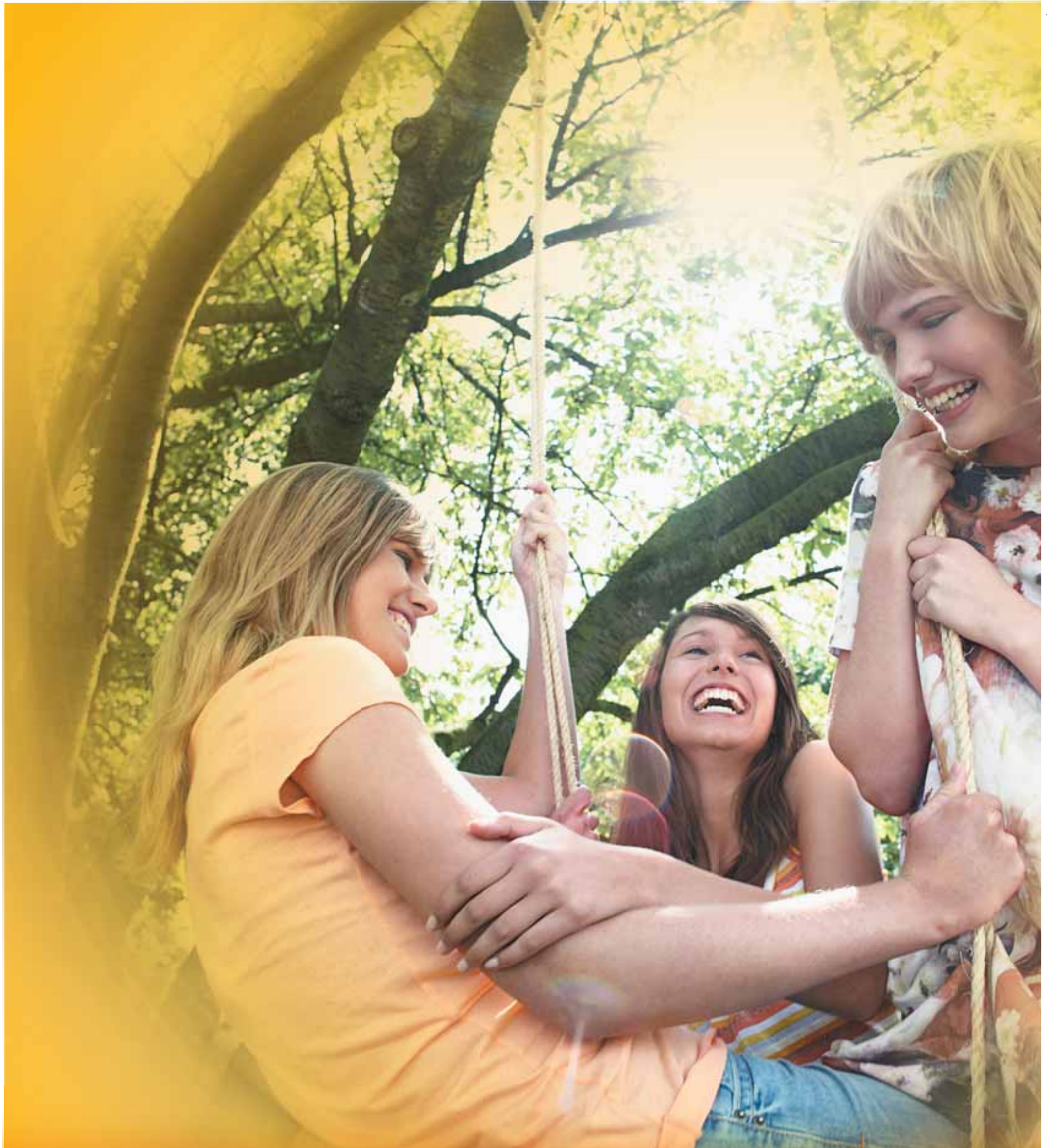
Self Cleaning



Sleep Timer



Power-SEL



Multi System

Multi - System

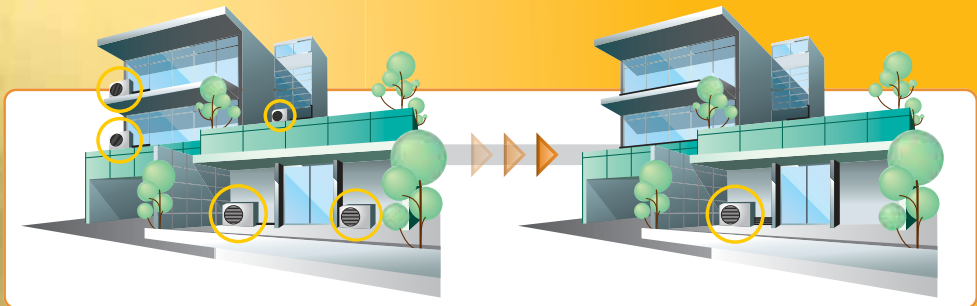
With even more sophisticated filters, Toshiba fights impurities and maximises comfort. One external compressor can serve up to five units for exceptional flexibility, economy and reliability under Toshiba's Total Quality System

Flexibility

The Toshiba Multi-System gives you a wide range of choices to create your desired comfort level. Choose from a flexible and efficient selection of interior units for up to five rooms.

Small Unit - Big Advantages

Toshiba Multi-System exterior units are lightweight and compact. With only one outdoor unit, the noise is significantly lower than 1:1 systems, it takes up much less space on your walls and keeps your environment neat and peaceful.



Luxury Through Flexible Technology



Advanced **Cleaning**

Ultimate **Comfort**

Design **Compact**

Cost **Saving**

Product Line Up

With even more sophisticated filters, Toshiba fights impurities and maximises comfort. One external compressor can serve up to five units for exceptional flexibility, economy and reliability under Toshiba's Total Quality System

Multi-System Inverter (High Efficiency)



2/3 Rooms

COOLING

RAS-M10SKCV
RAS-M13SKCV
RAS-M16SKCV



RAS-3M24S3ACV-SG

3/4 Rooms

COOLING

RAS-M10SKCV
RAS-M13SKCV
RAS-M16SKCV
RAS-M22SKCV



RAS-4M26S3ACV-SG

4/5 Rooms

COOLING

RAS-M10SKCV
RAS-M13SKCV
RAS-M16SKCV
RAS-M22SKCV
RAS-M24SKCV



RAS-5M28S3ACV-SG

DUCT TYPE IS AVAILABLE :



RAS-M10SDCV
RAS-M13SDCV
RAS-M16SDCV
RAS-M22SDCV

Specifications

RAS-3M24S3ACV-SG
RAS-4M26S3ACV-SG
RAS-5M28S3ACV-SG

High Efficiency Multi Inverter

Indoor Unit : Hiwall type

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

System	Cooling Only (R-410)				
Model	RAS-M10SKCV	RAS-M13SKCV	RAS-M16SKCV	RAS-M22SKCV	RAS-M24SKCV
Power Supply (V/ph/Hz)	230/1/50				
Cooling Capacity (kW)	2.7 (1.4 ~ 3.2)	3.7 (1.4 ~ 4.4)	4.5 (1.4 ~ 5.0)	6.0 (2.4 ~ 6.8)	7.1(2.4-7.2)
Indoor Unit					
Dimension (HxWxD) (mm)	275x790x205	275x790x205	275x790x205	320x1050x228	320x1050x228
Net weight (kg)	9	9	9	14	13
Airflow volume (m ³ /h)	516	564	690	1080	1134
Operating Noise (H-L) (dB)	38 - 26	39 - 26	45 - 30	47 - 35	49 - 37
Pipe Size					
Liquide Size (mm/inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")
Gas Size (mm/inch)	9.52(3/8")	9.52(3/8")	12.70(1/2")	12.70(1/2")	12.70(1/2")

Indoor Unit : Duct type

System	Cooling Only (R-410)			
Model (Indoor Unit)	RAS-M10SDCV	RAS-M13SDCV	RAS-M16SDCV	RAS-M22SDCV
Power Supply (V/ph/Hz)	230/1/50			
Cooling Capacity (kW)	2.7 (1.4 ~ 3.2)	3.7 (1.4 ~ 4.4)	4.5 (1.4 ~ 5.0)	6.0 (2.4 ~ 6.8)
Indoor Unit				
Dimension (HxWxD) (mm)	230x750x440	230x750x440	230x750x440	230x900x440
Net weight (kg)	19	19	19	21
Airflow volume (m ³ /h)	720	780	780	900
Operating Noise (H-L) (dB)	31 - 23	32 - 24	33 - 25	35 - 27
Static pressure				
Upper limit (Pa)	54.9	63.7	63.7	68.6
Standard (Pa)	35.3	41.2	41.2	35.3
Pipe Size				
Liquide Size (mm/inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")
Gas Size (mm/inch)	9.52(3/8")	9.52(3/8")	12.7(1/2")	12.7(1/2")
Length of Signal receiver code (mm)	2000			

Outdoor Unit

Number of Indoor units	3 Rooms Multi	4 Rooms Multi	5 Rooms Multi
Outdoor Unit	RAS-3M24S3ACV-SG	RAS-4M26S3ACV-SG	RAS-5M28S3ACV-SG
Dimension (HxWxD) (mm)	630x800x300	890x900x320	890x900x320
Net weight (kg)	45	74	75
Max. Piping Length (Per unit) (m)	25	25	25
Max. Piping Length (Total) (m)	50	70	80
Max. Chargeless Length (m)	50	40	40
Max. Piping Height (m)	10	15	15
Refrigerant Type	R 410A		
Usable Outdoor Temp (Cooling, °C)	10-43 (Maximum Intake Temperature 46)		
Operating noise dB(A) sound pressure level	50	52	52

*The specifications may be subjected to change without prior notice for purpose of improvement

Product Line Up

With even more sophisticated filters, Toshiba fights impurities and maximises comfort. One external compressor can serve up to five units for exceptional flexibility, economy and reliability under Toshiba's Total Quality System

Multi-System Inverter



2/3 Rooms

COOLING

RAS-M10SKCV
RAS-M13SKCV
RAS-M16SKCV



RAS-3M20SACV



3/4 Rooms

COOLING

RAS-M10SKCV
RAS-M13SKCV
RAS-M16SKCV
RAS-M22SKCV



RAS-4M26SACV



4/5 Rooms

COOLING

RAS-M10SKCV
RAS-M13SKCV
RAS-M16SKCV
RAS-M22SKCV
RAS-M24SKCV



RAS-5M41UACV-SG



DUCT TYPE IS AVAILABLE :



RAS-M10SDCV
RAS-M13SDCV
RAS-M16SDCV
RAS-M22SDCV

Specifications

RAS-3M20SACV
RAS-4M26SACV
RAS-5M41UACV-SG

Multi Inverter

Indoor Unit : Hiwall type

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

System	Cooling Only (R-410)				
Model	RAS-M10SKCV	RAS-M13SKCV	RAS-M16SKCV	RAS-M22SKCV	RAS-M24SKCV
Power Supply (V/ph/Hz)	230/1/50				
Cooling Capacity (kW)	2.7 (1.4 ~ 3.2)	3.7 (1.4 ~ 4.4)	4.5 (1.4 ~ 5.0)	6.0 (2.4 ~ 6.8)	7.1(2.4-7.2)kw
Indoor Unit					
Dimension (HxWxD) (mm)	275x790x205	275x790x205	275x790x205	320x1050x228	320x1050x228
Net weight (kg)	9	9	9	14	13
Airflow volume (m ³ /h)	516	564	690	1080	1134
Operating Noise (H-L) (dB)	38 - 26	39 - 26	45 - 30	47 - 35	49 - 37
Pipe Size					
Liquide Size (mm/inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")
Gas Size (mm/inch)	9.52(3/8")	9.52(3/8")	12.70(1/2")	12.70(1/2")	12.70(1/2")

Indoor Unit : Duct type

System	Cooling Only (R-410)			
Model (Indoor Unit)	RAS-M10SDCV	RAS-M13SDCV	RAS-M16SDCV	RAS-M22SDCV
Power Supply (V/ph/Hz)	230/1/50			
Cooling Capacity (kW)	2.7 (1.4 ~ 3.2)	3.7 (1.4 ~ 4.4)	4.5 (1.4 ~ 5.0)	6.0 (2.4 ~ 6.8)
Indoor Unit				
Dimension (HxWxD) (mm)	230x750x440	230x750x440	230x750x440	230x900x440
Net weight (kg)	19	19	19	21
Airflow volume (m ³ /h)	720	780	780	900
Operating Noise (H-L) (dB)	31 - 23	32 - 24	33 - 25	35 - 27
Static pressure				
Upper limit (Pa)	54.9	63.7	63.7	68.6
Standard (Pa)	35.3	41.2	41.2	35.3
Pipe Size				
Liquide Size (mm/inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")
Gas Size (mm/inch)	9.52(3/8")	9.52(3/8")	12.7(1/2")	12.7(1/2")
Length of Signal receiver code (mm)	2000			

Outdoor Unit

Number of Indoor units	3 Rooms Multi	4 Rooms Multi	5 Rooms Multi
Outdoor Unit	RAS 3M20SACV	RAS-4M26SACV	RAS-5M41UACV-SG
Dimension (HxWxD) (mm)	695x780x270	795x900x320	890x900x320
Net weight (kg)	43	61	73
Max. Piping Length (Per unit) (m)	20	25	25
Max. Piping Length (Total) (m)	40	70	80
Max. Chargeless Length (m)	40	70	40
Max. Piping Height (m)	10	15	15
Refrigerant Type	R 410A		
Usable Outdoor Temp (Cooling, °C)	10-43 (Maximum Intake Temperature 46)		
Operating noise dB(A)	48	48	54

*The specifications may be subjected to change without prior notice for purpose of improvement

Specifications

RAS-3M20SACV

Multi Inverter

3-room multisplit (Cooling, 230V Max 7.0kw)

Indoor units : RAS-M10SKCV, RAS-M13SKCV, RAS-M16SKCV,
RAS-M10SDCV, RAS-M13SDCV, RAS-M16SDCV
Outdoor unit : RAS-3M20SACV

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

No current release control												
Operating status	Combination			Unit capacity			Cooling capacity			Operating current		
				kW			kW			A		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.
1-unit operation	10			2.70			1.4	2.7	3.2	1.91	4.41	5.36
	13			3.70			1.4	3.7	4.4	1.91	6.69	6.95
	16			4.50			1.4	4.5	4.9	1.91	7.56	8.18
2-unit operation	10	10		2.70	2.70		1.8	5.4	6.0	2.12	7.54	9.19
	13	10		3.35	2.45		1.8	5.8	6.3	2.12	9.19	10.34
	16	10		3.62	2.18		1.8	5.8	6.4	2.12	8.50	9.65
	13	13		2.90	2.90		1.8	5.8	6.4	2.12	9.19	10.48
	16	13		3.18	2.62		1.8	5.8	6.4	2.12	8.50	9.65
	16	16		2.90	2.90		1.8	5.8	6.5	2.12	8.50	9.65
3-unit operation	10	10	10	1.93	1.93	1.93	2.2	5.8	7.0	2.43	8.18	10.57
	13	10	10	2.36	1.72	1.72	2.2	5.8	7.0	2.43	8.18	10.57
	16	10	10	2.64	1.58	1.58	2.2	5.8	7.0	2.43	7.81	10.57
	13	13	10	2.12	2.12	1.56	2.2	5.8	7.0	2.43	8.18	10.57

3-room multisplit (Cooling, 230V)

Indoor units : RAS-M10SKCV, RAS-M13SKCV, RAS-M16SKCV,
RAS-M10SDCV, RAS-M13SDCV, RAS-M16SDCV
Outdoor unit : RAS-3M20SACV

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

Operation with 8.5A current release control												
Operating status	Combination			Unit capacity			Cooling capacity			Operating current		
				kW			kW			A		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.
1-unit operation	10			2.70			1.4	2.7	3.2	1.91	4.41	5.36
	13			3.70			1.4	3.7	4.4	1.91	6.69	6.95
	16			4.50			1.4	4.5	4.9	1.91	7.56	8.18
2-unit operation	10	10		2.70	2.70		1.8	5.4	5.7	2.12	7.54	8.50
	13	10		3.30	2.40		1.8	5.7	5.7	2.12	8.50	8.50
	16	10		3.62	2.18		1.8	5.8	5.8	2.12	8.50	8.50
	13	13		2.85	2.85		1.8	5.7	5.7	2.12	8.50	8.50
	16	13		3.18	2.62		1.8	5.8	5.8	2.12	8.50	8.50
	16	16		2.90	2.90		1.8	5.8	5.8	2.12	8.50	8.50
3-unit operation	10	10	10	1.93	1.93	1.93	2.2	5.8	6.3	2.43	8.18	8.50
	13	10	10	2.36	1.72	1.72	2.2	5.8	6.3	2.43	8.18	8.50
	16	10	10	2.64	1.58	1.58	2.2	5.8	6.3	2.43	7.81	8.50
	13	13	10	2.12	2.12	1.56	2.2	5.8	6.3	2.43	8.18	8.50

Specifications (Multi Inverter)

4-room multisplit (Cooling, 230V Max 10.0kw)

Indoor units : RAS-M10SKCV, RAS-M13SKCV, RAS-M16SKCV, RAS-M22SKCV,
RAS-M10SDCV, RAS-M13SDCV, RAS-M16SDCV, RAS-M22SDCV
Outdoor unit : RAS-4M26SACV

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

No current release control															
Operating status	Combination				Unit capacity				Cooling capacity			Operating current			
	Unit A	Unit B	Unit C	Unit D	kW				kW			A			
					Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	
1-unit operation	10				2.70					1.4	2.7	3.2	3.71	4.29	5.36
	13				3.70					1.4	3.7	4.4	3.71	5.80	7.18
	16				4.50					1.4	4.5	5.0	3.71	7.80	9.25
	22				6.00					2.4	6.0	6.8	3.83	9.44	11.45
2-unit operation	10	10			2.70	2.70				2.5	5.4	6.3	3.71	7.37	9.54
	13	10			3.41	2.49				2.7	5.9	6.6	3.83	8.65	10.17
	16	10			3.94	2.36				2.9	6.3	6.9	3.88	9.44	11.00
	13	13			3.15	3.15				2.9	6.3	6.9	3.88	9.81	11.00
	16	13			3.73	3.07				3.0	6.8	7.2	3.88	10.49	11.77
	16	16			3.60	3.60				3.2	7.2	7.5	3.88	11.68	12.60
	22	10			4.97	2.23				3.3	7.2	8.0	3.88	10.31	12.32
	22	13			4.64	2.86				3.4	7.5	8.3	4.06	11.68	13.06
3-unit operation	10	10	10		2.50	2.50	2.50			3.4	7.5	9.0	4.06	11.13	13.52
	13	10	10		3.04	2.23	2.23			3.5	7.5	8.4	4.23	11.00	12.74
	16	10	10		3.40	2.05	2.05			3.5	7.5	8.6	4.23	11.00	13.01
	13	13	10		2.75	2.75	2.00			3.5	7.5	8.6	4.23	11.00	13.01
	16	13	10		3.10	2.55	1.85			3.5	7.5	8.8	4.23	11.00	13.29
	13	13	13		2.50	2.50	2.50			3.5	7.5	8.8	4.23	11.00	13.29
	16	16	10		2.88	2.88	1.74			3.5	7.5	8.9	4.23	11.00	13.42
	16	13	13		2.84	2.33	2.33			3.5	7.5	8.9	4.23	11.00	13.42
	16	16	13		2.66	2.66	2.18			3.5	7.5	9.1	4.23	11.00	13.70
	16	16	16		2.50	2.50	2.50			3.5	7.5	9.3	4.23	11.00	13.97
	22	10	10		3.94	1.78	1.78			3.5	7.5	9.0	4.23	11.00	13.52
	22	13	10		3.63	2.24	1.63			3.5	7.5	9.1	4.23	11.00	13.56
	22	13	13		3.36	2.07	2.07			3.5	7.5	9.1	4.23	11.00	13.56
	22	16	10		3.41	2.56	1.53			3.5	7.5	9.1	4.23	11.00	13.56
	22	16	13		3.17	2.38	1.95			3.5	7.5	9.2	4.23	11.00	13.61
	4-unit operation	10	10	10	10	1.88	1.88	1.88	1.88		3.7	7.5	9.5	4.52	10.08
13		10	10	10	2.34	1.72	1.72	1.72		3.7	7.5	9.6	4.52	10.08	14.66
16		10	10	10	2.67	1.61	1.61	1.61		3.7	7.5	9.8	4.52	10.08	14.98
13		13	10	10	2.17	2.17	1.58	1.58		3.7	7.5	9.8	4.52	10.08	14.98
16		13	10	10	2.48	2.04	1.49	1.49		3.7	7.5	9.9	4.52	10.08	15.12
13		13	13	10	2.01	2.01	2.01	1.47		3.7	7.5	9.9	4.52	10.08	15.12
16		13	13	10	2.31	1.90	1.90	1.39		3.7	7.5	10.0	4.52	10.08	15.26
13		13	13	13	1.88	1.88	1.88	1.88		3.7	7.5	10.0	4.52	10.08	15.26
16		16	10	10	2.34	2.34	1.41	1.41		3.7	7.5	10.0	4.52	10.08	15.26
22		10	10	10	3.18	1.44	1.44	1.44		3.7	7.5	10.0	4.52	10.08	15.12

4-room multisplit (Cooling, 230V)

Indoor units : RAS-M10SKCV, RAS-M13SKCV, RAS-M16SKCV, RAS-M22SKCV,
RAS-M10SDCV, RAS-M13SDCV, RAS-M16SDCV, RAS-M22SDCV
Outdoor unit : RAS-4M26SACV

Condition (Cool) : Indoor Air Temperature 27°C DB, 19°C WB
Outdoor Air Temperature 35°C DB, 24°C WB

Operation with 11A current release control															
Operating status	Combination				Unit capacity				Cooling capacity			Operating current			
	Unit A	Unit B	Unit C	Unit D	kW				kW			A			
					Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	
1-unit operation	10				2.70					1.4	2.7	3.2	3.71	4.29	5.36
	13				3.70					1.4	3.7	4.4	3.71	5.80	7.18
	16				4.50					1.4	4.5	5.0	3.71	7.80	9.25
	22				6.00					2.4	6.0	6.5	3.83	9.44	11.00
2-unit operation	10	10			2.70	2.70				2.5	5.4	6.3	3.71	7.37	9.54
	13	10			3.41	2.49				2.7	5.9	6.6	3.83	8.65	10.17
	16	10			3.94	2.36				2.9	6.3	6.9	3.88	9.44	11.00
	13	13			3.15	3.15				2.9	6.3	6.9	3.88	9.81	11.00
	16	13			3.73	3.07				3.0	6.8	7.1	3.88	10.49	11.00
	16	16			3.55	3.55				3.2	7.1	7.1	3.88	11.00	11.00
	22	10			4.97	2.23				3.3	7.2	7.3	3.88	10.31	11.00
	22	13			4.52	2.78				3.4	7.3	7.3	4.06	11.00	11.00
3-unit operation	10	10	10		2.50	2.50	2.50			3.5	7.5	7.5	4.23	11.00	11.00
	13	10	10		3.04	2.23	2.23			3.5	7.5	7.5	4.23	11.00	11.00
	16	10	10		3.40	2.05	2.05			3.5	7.5	7.5	4.23	11.00	11.00
	13	13	10		2.75	2.75	2.00			3.5	7.5	7.5	4.23	11.00	11.00
	16	13	10		3.10	2.55	1.85			3.5	7.5	7.5	4.23	11.00	11.00
	13	13	13		2.50	2.50	2.50			3.5	7.5	7.5	4.23	11.00	11.00
	16	16	10		2.88	2.88	1.74			3.5	7.5	7.5	4.23	11.00	11.00
	16	13	13		2.84	2.33	2.33			3.5	7.5	7.5	4.23	11.00	11.00
	16	16	13		2.66	2.66	2.18			3.5	7.5	7.5	4.23	11.00	11.00
	16	16	16		2.50	2.50	2.50			3.5	7.5	7.5	4.23	11.00	11.00
	22	10	10		3.94	1.78	1.78			3.5	7.5	7.5	4.23	11.00	11.00
	22	13	10		3.63	2.24	1.63			3.5	7.5	7.5	4.23	11.00	11.00
	22	13	13		3.36	2.07	2.07			3.5	7.5	7.5	4.23	11.00	11.00
	22	16	10		3.41	2.56	1.53			3.5	7.5	7.5	4.23	11.00	11.00
	22	16	13		3.17	2.38	1.95			3.5	7.5	7.5	4.23	11.00	11.00
	4-unit operation	10	10	10	10	1.88	1.88	1.88	1.88		3.7	7.5	7.7	4.52	10.08
13		10	10	10	2.34	1.72	1.72	1.72		3.7	7.5	7.7	4.52	10.08	11.00
16		10	10	10	2.67	1.61	1.61	1.61		3.7	7.5	7.7	4.52	10.08	11.00
13		13	10	10	2.17	2.17	1.58	1.58		3.7	7.5	7.7	4.52	10.08	11.00
16		13	10	10	2.48	2.04	1.49	1.49		3.7	7.5	7.7	4.52	10.08	11.00
13		13	13	10	2.01	2.01	2.01	1.47		3.7	7.5	7.7	4.52	10.08	11.00
16		13	13	10	2.31	1.90	1.90	1.39		3.7	7.5	7.7	4.52	10.08	11.00
13		13	13	13	1.88	1.88	1.88	1.88		3.7	7.5	7.7	4.52	10.08	11.00
16		16	10	10	2.34	2.34	1.41	1.41		3.7	7.5	7.7	4.52	10.08	11.00
22		10	10	10	3.18	1.44	1.44	1.44		3.7	7.5	7.7	4.52	10.08	11.00

Specifications

Multi Inverter

Combination with RAS-5M41UACV-SG (1/2) No limit, cooling under 230V

Operating Status	Combination					Unit capacity					Cooling capacity			Operating current		
	Unit A	Unit B	Unit C	Unit D	Unit E	kW					kW			A		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated.	Max.	Min.	Rated.	Max.
1-unit operation	10					2.7					1.4	2.7	3.2	3.66	4.23	4.44
	13					3.7					1.4	3.7	4.4	3.52	5.93	6.88
	16					4.5					1.4	4.5	5.0	3.52	7.63	8.87
	22					6.0					2.4	6.0	6.8	3.52	9.15	11.09
	24					7.1					2.4	7.1	7.2	3.63	10.82	13.13
2-unit operation	10	10				2.70	2.70				2.5	5.4	6.3	3.48	7.00	9.67
	13	10				3.70	2.70				2.7	6.4	7.1	3.59	8.92	10.51
	16	10				4.33	2.60				2.9	6.9	7.6	3.64	9.89	11.36
	13	13				3.47	3.47				2.9	6.9	7.6	3.64	9.89	11.36
	16	13				4.10	3.38				3.0	7.5	7.9	3.75	10.62	11.54
	22	10				5.16	2.32				3.0	7.5	7.9	3.75	10.62	11.54
	16	16				3.96	3.96				3.2	7.9	8.3	3.80	10.85	11.54
	24	10				5.74	2.18				3.2	7.9	8.3	3.80	10.85	11.54
	22	13				4.90	3.02				3.2	7.9	8.3	3.80	10.85	11.54
	24	13				5.21	2.71				3.2	7.9	8.3	3.80	10.85	11.54
	22	16				4.59	3.44				3.2	8.0	8.3	3.80	10.89	11.54
	24	16				4.91	3.12				3.2	8.0	8.3	3.80	10.89	11.54
	22	22				4.40	4.40				3.2	8.8	9.1	3.80	10.82	11.54
	24	22				4.77	4.03				3.2	8.8	9.1	3.80	10.82	11.54
	24	24				4.46	4.46				3.2	8.9	9.2	3.80	10.87	11.54
3-unit operation	10	10	10			2.70	2.70	2.70			3.8	8.1	9.1	4.59	10.98	12.64
	13	10	10			3.44	2.51	2.51			3.9	8.5	9.1	4.64	11.58	12.73
	16	10	10			3.85	2.31	2.31			4.0	8.5	9.4	4.64	11.58	12.95
	13	13	10			3.10	3.10	2.26			4.0	8.5	9.4	4.64	11.58	12.95
	16	13	10			3.54	2.91	2.13			4.1	8.6	9.5	4.69	11.67	13.09
	13	13	13			2.86	2.86	2.86			4.1	8.6	9.5	4.69	11.67	13.09
	22	10	10			4.57	2.06	2.06			4.1	8.7	9.6	4.69	11.72	13.18
	16	16	10			3.34	3.34	2.01			4.1	8.7	9.6	4.69	11.72	13.18
	16	13	13			3.29	2.70	2.70			4.1	8.7	9.6	4.69	11.72	13.18
	24	10	10			4.94	1.88	1.88			4.1	8.7	9.6	4.69	11.72	13.18
	22	13	10			4.20	2.59	1.89			4.1	8.7	9.6	4.69	11.72	13.18
	16	16	13			3.08	3.08	2.53			4.1	8.7	9.6	4.69	11.72	13.18
	24	13	10			4.57	2.38	1.74			4.1	8.7	9.6	4.69	11.72	13.18
	22	16	10			4.00	3.00	1.80			4.3	8.8	9.9	4.73	11.76	13.49
	22	13	13			3.94	2.43	2.43			4.3	8.8	9.9	4.73	11.76	13.49
	16	16	16			2.93	2.93	2.93			4.3	8.8	9.9	4.73	11.76	13.49
	24	16	10			4.37	2.77	1.66			4.3	8.8	9.9	4.73	11.76	13.49
	24	13	13			4.31	2.25	2.25			4.3	8.8	9.9	4.73	11.76	13.49
	22	16	13			3.72	2.79	2.29			4.3	8.8	9.9	4.73	11.76	13.49
	24	16	13			4.08	2.59	2.13			4.3	8.8	9.9	4.73	11.76	13.49
22	22	10			3.64	3.64	1.64			4.1	8.9	9.8	4.69	9.79	11.31	
24	22	10			4.05	3.43	1.54			4.1	9.0	9.9	4.69	9.89	11.40	
24	24	10			3.79	3.79	1.44			4.1	9.0	9.9	4.69	9.89	11.40	

Specifications

Multi Inverter

Combination with RAS-5M41UACV-SG (2/2) No limit, cooling under 230V

Operating Status	Combination					Unit capacity					Cooling capacity			Operating current		
	Unit A	Unit B	Unit C	Unit D	Unit E	kW					kW			A		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated.	Max.	Min.	Rated.	Max.
4-unit operation	10	10	10	10		2.39	2.39	2.39	2.39		4.1	9.6	10.0	4.54	12.86	13.00
	13	10	10	10		3.07	2.24	2.24	2.24		4.1	9.8	10.2	4.54	12.86	13.13
	16	10	10	10		3.54	2.12	2.12	2.12		4.2	9.9	10.3	4.59	12.95	13.22
	13	13	10	10		2.86	2.86	2.09	2.09		4.2	9.9	10.3	4.59	12.95	13.22
	16	13	10	10		3.28	2.69	1.97	1.97		4.2	9.9	10.3	4.59	12.95	13.22
	22	10	10	10		4.21	1.90	1.90	1.90		4.2	9.9	10.3	4.59	12.95	13.22
	13	13	13	10		2.65	2.65	2.65	1.94		4.2	9.9	10.3	4.59	12.95	13.22
	16	16	10	10		3.09	3.09	1.86	1.86		4.2	9.9	10.3	4.59	12.95	13.22
	24	10	10	10		4.62	1.76	1.76	1.76		4.2	9.9	10.3	4.59	12.95	13.22
	16	13	13	10		3.05	2.51	2.51	1.83		4.2	9.9	10.3	4.59	12.95	13.22
	22	13	10	10		3.93	2.43	1.77	1.77		4.2	9.9	10.3	4.59	12.95	13.22
	13	13	13	13		2.48	2.48	2.48	2.48		4.2	9.9	10.3	4.59	12.95	13.22
	16	16	13	10		2.89	2.89	2.38	1.74		4.2	9.9	10.3	4.59	12.95	13.22
	24	13	10	10		4.34	2.26	1.65	1.65		4.2	9.9	10.3	4.59	12.95	13.22
	22	16	10	10		3.74	2.80	1.68	1.68		4.2	9.9	10.3	4.59	12.95	13.22
	16	13	13	13		2.86	2.35	2.35	2.35		4.2	9.9	10.3	4.59	12.95	13.22
	22	13	13	10		3.69	2.28	2.28	1.66		4.2	9.9	10.3	4.59	12.95	13.22
	24	16	10	10		4.13	2.62	1.57	1.57		4.2	9.9	10.3	4.59	12.95	13.22
	16	16	13	13		2.72	2.72	2.23	2.23		4.2	9.9	10.3	4.59	12.95	13.22
	24	13	13	10		4.09	2.13	2.13	1.55		4.2	9.9	10.3	4.59	12.95	13.22
	22	16	13	10		3.51	2.64	2.17	1.58		4.2	9.9	10.3	4.59	12.95	13.22
	22	13	13	13		3.47	2.14	2.14	2.14		4.2	9.9	10.3	4.59	12.95	13.22
	24	16	13	10		3.91	2.48	2.04	1.49		4.2	9.9	10.3	4.59	12.95	13.22
	24	13	13	13		3.86	2.01	2.01	2.01		4.2	9.9	10.3	4.59	12.95	13.22
22	16	13	13		3.32	2.49	2.05	2.05		4.2	9.9	10.3	4.59	12.95	13.22	
24	16	13	13		3.70	2.34	1.93	1.93		4.2	9.9	10.3	4.59	12.95	13.22	
5-unit operation	10	10	10	10	10	2.18	2.18	2.18	2.18	2.18	3.7	10.9	12.0	4.59	14.65	15.75
	13	10	10	10	10	2.78	2.03	2.03	2.03	2.03	3.7	10.9	12.0	4.59	14.65	15.75
	16	10	10	10	10	3.20	1.92	1.92	1.92	1.92	3.7	10.9	12.0	4.59	14.65	15.75
	13	13	10	10	10	2.60	2.60	1.90	1.90	1.90	3.7	10.9	12.0	4.59	14.65	15.75
	16	13	10	10	10	3.01	2.47	1.80	1.80	1.80	3.7	10.9	12.0	4.59	14.65	15.75
	22	10	10	10	10	3.93	1.77	1.77	1.77	1.77	3.7	11.0	12.1	4.59	14.83	15.75
	13	13	13	10	10	2.44	2.44	2.44	1.78	1.78	3.7	10.9	12.0	4.59	14.65	15.75
	16	16	10	10	10	2.87	2.87	1.72	1.72	1.72	3.7	10.9	12.0	4.59	14.65	15.75
	24	10	10	10	10	4.36	1.66	1.66	1.66	1.66	3.7	11.0	12.1	4.59	14.83	15.75
	16	13	13	10	10	2.83	2.33	2.33	1.70	1.70	3.7	10.9	12.0	4.59	14.65	15.75
	22	13	10	10	10	3.71	2.29	1.67	1.67	1.67	3.7	11.0	12.1	4.59	14.83	15.75
	13	13	13	13	10	2.30	2.30	2.30	2.30	1.68	3.7	10.9	12.0	4.59	14.65	15.75
	16	16	13	10	10	2.73	2.73	2.25	1.64	1.64	3.7	11.0	12.1	4.59	14.83	15.75
	24	13	10	10	10	4.13	2.15	1.57	1.57	1.57	3.7	11.0	12.1	4.59	14.83	15.75
	16	13	13	13	10	2.70	2.22	2.22	2.22	1.62	3.7	11.0	12.1	4.59	14.83	15.75
	22	13	13	10	10	3.51	2.16	2.16	1.58	1.58	3.7	11.0	12.1	4.59	14.83	15.75
	13	13	13	13	13	2.20	2.20	2.20	2.20	2.20	3.7	11.0	12.1	4.59	14.83	15.75
	16	16	13	13	10	2.59	2.59	2.13	2.13	1.55	3.7	11.0	12.1	4.59	14.83	15.75
	16	13	13	13	13	2.56	2.11	2.11	2.11	2.11	3.7	11.0	12.1	4.59	14.83	15.75
	24	13	13	10	10	3.92	2.05	2.05	1.49	1.49	3.7	11.0	12.1	4.59	14.83	15.75
	22	13	13	13	10	3.33	2.06	2.06	2.06	1.50	3.7	11.0	12.1	4.59	14.83	15.75
	16	16	13	13	13	2.46	2.46	2.02	2.02	2.02	3.7	11.0	12.1	4.59	14.83	15.75

Specifications

Multi Inverter

Combination with RAS-5M41UACV-SG (1/2) Ampere limitation 11A, cooling under 230V

Operating Status	Combination					Unit capacity					Cooling capacity			Operating current		
	Unit A	Unit B	Unit C	Unit D	Unit E	kW					kW			A		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated.	Max.	Min.	Rated.	Max.
1-unit operation	10					2.7					1.4	2.7	3.2	3.66	4.23	4.44
	13					3.7					1.4	3.7	4.4	3.52	5.93	6.88
	16					4.5					1.4	4.5	5.0	3.52	7.63	8.87
	22					6.0					2.4	6.0	6.7	3.52	9.15	11.00
	24					7.1					2.4	7.1	7.2	3.63	10.82	11.00
2-unit operation	10	10				2.70	2.70				2.5	5.4	6.3	3.48	7.00	9.67
	13	10				3.70	2.70				2.7	6.4	7.1	3.59	8.92	10.51
	16	10				4.33	2.60				2.9	6.9	7.5	3.64	9.89	11.00
	13	13				3.47	3.47				2.9	6.9	7.5	3.64	9.89	11.00
	16	13				4.10	3.38				3.0	7.5	7.8	3.75	10.62	11.00
	22	10				5.16	2.32				3.0	7.5	7.8	3.75	10.62	11.00
	16	16				3.96	3.96				3.2	7.9	8.1	3.80	10.85	11.00
	24	10				5.74	2.18				3.2	7.9	8.1	3.80	10.85	11.00
	22	13				4.90	3.02				3.2	7.9	8.1	3.80	10.85	11.00
	24	13				5.21	2.71				3.2	7.9	8.1	3.80	10.85	11.00
	22	16				4.59	3.44				3.2	8.0	8.1	3.80	10.89	11.00
	24	16				4.91	3.12				3.2	8.0	8.1	3.80	10.89	11.00
	22	22				4.40	4.40				3.2	8.8	8.9	3.80	10.82	11.00
	24	22				4.77	4.03				3.2	8.9	9.0	3.80	10.82	11.00
	24	24				4.46	4.46				3.8	8.1	8.1	3.80	10.87	11.00
3unit operation	10	10	10			2.70	2.70	2.70			3.9	8.1	8.1	4.59	10.98	11.00
	13	10	10			3.29	2.40	2.40			3.9	8.1	8.1	4.64	11.00	11.00
	16	10	10			3.77	2.26	2.26			4.0	8.3	8.3	4.64	11.00	11.00
	13	13	10			3.04	3.04	2.22			4.1	8.3	8.3	4.64	11.00	11.00
	16	13	10			3.43	2.82	2.06			4.1	8.3	8.3	4.69	11.00	11.00
	13	13	13			2.77	2.77	2.77			4.1	8.3	8.3	4.69	11.00	11.00
	22	10	10			4.47	2.01	2.01			4.1	8.5	8.5	4.69	11.00	11.00
	16	16	10			3.27	3.27	1.96			4.1	8.5	8.5	4.69	11.00	11.00
	16	13	13			3.21	2.64	2.64			4.1	8.5	8.5	4.69	11.00	11.00
	24	10	10			4.83	1.84	1.84			4.1	8.5	8.5	4.69	11.00	11.00
	22	13	10			4.11	2.54	1.85			4.1	8.5	8.5	4.69	11.00	11.00
	16	16	13			3.01	3.01	2.48			4.1	8.5	8.5	4.69	11.00	11.00
	24	13	10			4.47	2.33	1.70			4.1	8.5	8.5	4.69	11.00	11.00
	22	16	10			3.95	2.97	1.78			4.3	8.7	8.7	4.73	11.00	11.00
	22	13	13			3.90	2.40	2.40			4.3	8.7	8.7	4.73	11.00	11.00
	16	16	16			2.90	2.90	2.90			4.3	8.7	8.7	4.73	11.00	11.00
	24	16	10			4.32	2.74	1.64			4.3	8.7	8.7	4.73	11.00	11.00
	24	13	13			4.26	2.22	2.22			4.3	8.7	8.7	4.73	11.00	11.00
	22	16	13			3.68	2.76	2.27			4.3	8.7	8.7	4.73	11.00	11.00
	24	16	13			4.04	2.56	2.10			4.3	8.7	8.7	4.73	11.00	11.00
22	22	10			3.64	3.64	1.64			4.1	8.9	9.3	4.69	9.79	11.00	
24	22	10			4.05	3.43	1.54			4.1	9.0	9.4	4.69	9.89	11.00	
24	24	10			3.79	3.79	1.44			4.1	9.0	9.4	4.69	9.89	11.00	

Specifications

Multi Inverter

Combination with RAS-5M41UACV-SG (2/2) Ampere limitation 11A, cooling under 230V																
Operating Status	Combination					Unit capacity					Cooling capacity			Operating current		
	Unit A	Unit B	Unit C	Unit D	Unit E	kW					kW			A		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated.	Max.	Min.	Rated.	Max.
4-unit operation	10	10	10	10		2.23	2.23	2.23	2.23		4.1	8.9	8.9	4.54	11.00	11.00
	13	10	10	10		2.85	2.08	2.08	2.08		4.1	9.1	9.1	4.54	11.00	11.00
	16	10	10	10		3.29	1.97	1.97	1.97		4.1	9.2	9.2	4.59	11.00	11.00
	13	13	10	10		2.66	2.66	1.94	1.94		4.1	9.2	9.2	4.59	11.00	11.00
	16	13	10	10		3.04	2.50	1.83	1.83		4.1	9.2	9.2	4.59	11.00	11.00
	22	10	10	10		3.91	1.76	1.76	1.76		4.1	9.2	9.2	4.59	11.00	11.00
	13	13	13	10		2.47	2.47	2.47	1.80		4.1	9.2	9.2	4.59	11.00	11.00
	16	16	10	10		2.88	2.88	1.73	1.73		4.1	9.2	9.2	4.59	11.00	11.00
	24	10	10	10		4.30	1.63	1.63	1.63		4.1	9.2	9.2	4.59	11.00	11.00
	16	13	13	10		2.84	2.33	2.33	1.70		4.1	9.2	9.2	4.59	11.00	11.00
	22	13	10	10		3.66	2.25	1.65	1.65		4.1	9.2	9.2	4.59	11.00	11.00
	13	13	13	13		2.30	2.30	2.30	2.30		4.1	9.2	9.2	4.59	11.00	11.00
	16	16	13	10		2.69	2.69	2.21	1.61		4.1	9.2	9.2	4.59	11.00	11.00
	24	13	10	10		4.03	2.10	1.53	1.53		4.1	9.2	9.2	4.59	11.00	11.00
	22	16	10	10		3.47	2.60	1.56	1.56		4.1	9.2	9.2	4.59	11.00	11.00
	16	13	13	13		2.65	2.18	2.18	2.18		4.1	9.2	9.2	4.59	11.00	11.00
	22	13	13	10		3.43	2.11	2.11	1.54		4.1	9.2	9.2	4.59	11.00	11.00
	24	16	10	10		3.84	2.44	1.46	1.46		4.1	9.2	9.2	4.59	11.00	11.00
	16	16	13	13		2.52	2.52	2.08	2.08		4.1	9.2	9.2	4.59	11.00	11.00
	24	13	13	10		3.80	1.98	1.98	1.44		4.1	9.2	9.2	4.59	11.00	11.00
22	16	13	10		3.27	2.45	2.01	1.47		4.1	9.2	9.2	4.59	11.00	11.00	
22	13	13	13		3.23	1.99	1.99	1.99		4.1	9.2	9.2	4.59	11.00	11.00	
24	16	13	10		3.63	2.30	1.89	1.38		4.1	9.2	9.2	4.59	11.00	11.00	
24	13	13	13		3.59	1.87	1.87	1.87		4.1	9.2	9.2	4.59	11.00	11.00	
22	16	13	13		3.08	2.31	1.90	1.90		4.1	9.2	9.2	4.59	11.00	11.00	
24	16	13	13		3.44	2.18	1.79	1.79		4.1	9.2	9.2	4.59	11.00	11.00	
5-Unit operation	10	10	10	10	10	1.84	1.84	1.84	1.84	1.84	3.7	9.2	9.2	4.59	11.00	11.00
	13	10	10	10	10	2.35	1.71	1.71	1.71	1.71	3.7	9.2	9.2	4.59	11.00	11.00
	16	10	10	10	10	2.71	1.62	1.62	1.62	1.62	3.7	9.2	9.2	4.59	11.00	11.00
	13	13	10	10	10	2.20	2.20	1.60	1.60	1.60	3.7	9.2	9.2	4.59	11.00	11.00
	16	13	10	10	10	2.54	2.09	1.52	1.52	1.52	3.7	9.2	9.2	4.59	11.00	11.00
	22	10	10	10	10	3.32	1.49	1.49	1.49	1.49	3.7	9.3	9.3	4.59	11.00	11.00
	13	13	13	10	10	2.06	2.06	2.06	1.51	1.51	3.7	9.2	9.2	4.59	11.00	11.00
	16	16	10	10	10	2.42	2.42	1.45	1.45	1.45	3.7	9.2	9.2	4.59	11.00	11.00
	24	10	10	10	10	3.69	1.40	1.40	1.40	1.40	3.7	9.3	9.3	4.59	11.00	11.00
	16	13	13	10	10	2.39	1.97	1.97	1.44	1.44	3.7	9.2	9.2	4.59	11.00	11.00
	22	13	10	10	10	3.13	1.93	1.41	1.41	1.41	3.7	9.3	9.3	4.59	11.00	11.00
	13	13	13	13	10	1.95	1.95	1.95	1.95	1.42	3.7	9.2	9.2	4.59	11.00	11.00
	16	16	13	10	10	2.31	2.31	1.90	1.39	1.39	3.7	9.3	9.3	4.59	11.00	11.00
	24	13	10	10	10	3.49	1.82	1.33	1.33	1.33	3.7	9.3	9.3	4.59	11.00	11.00
	16	13	13	13	10	2.29	1.88	1.88	1.88	1.37	3.7	9.3	9.3	4.59	11.00	11.00
	22	13	13	10	10	2.97	1.83	1.83	1.34	1.34	3.7	9.3	9.3	4.59	11.00	11.00
	13	13	13	13	13	1.86	1.86	1.86	1.86	1.86	3.7	9.3	9.3	4.59	11.00	11.00
	16	16	13	13	10	2.19	2.19	1.80	1.80	1.31	3.7	9.3	9.3	4.59	11.00	11.00
	16	13	13	13	13	2.17	1.78	1.78	1.78	1.78	3.7	9.3	9.3	4.59	11.00	11.00
	24	13	13	10	10	3.32	1.73	1.73	1.26	1.26	3.7	9.3	9.3	4.59	11.00	11.00
22	13	13	13	10	2.82	1.74	1.74	1.74	1.27	3.7	9.3	9.3	4.59	11.00	11.00	
16	16	13	13	13	2.08	2.08	1.71	1.71	1.71	3.7	9.3	9.3	4.59	11.00	11.00	

Specifications

Multi Inverter

Combination with RAS-5M41UACV-SG (1/2) Ampere limitation 8.5A, cooling under 230V																
Operating Status	Combination					Unit capacity					Cooling capacity			Operating current		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated.	Max.	Min.	Rated.	Max.
1-unit operation	10					2.7					1.4	2.7	3.2	3.66	4.23	4.44
	13					3.7					1.4	3.7	4.4	3.52	5.93	6.88
	16					4.5					1.4	4.5	4.9	3.52	7.63	8.50
	22					5.5					2.4	5.8	5.8	3.52	8.50	8.50
	24					6.0					2.4	6.0	6.0	3.63	8.50	8.50
2-unit operation	10	10				2.70	2.70				2.5	5.4	6.3	3.48	7.00	8.50
	13	10				3.64	2.66				2.7	6.3	6.3	3.59	8.50	8.50
	16	10				4.00	2.40				2.9	6.4	6.4	3.64	8.50	8.50
	13	13				3.20	3.20				2.9	6.4	6.4	3.64	8.50	8.50
	16	13				3.51	2.89				3.0	6.4	6.4	3.75	8.50	8.50
	22	10				4.48	2.02				3.0	6.5	6.5	3.75	8.50	8.50
	16	16				3.25	3.25				3.2	6.5	6.5	3.80	8.50	8.50
	24	10				4.71	1.79				3.2	6.5	6.5	3.80	8.50	8.50
	22	13				4.02	2.48				3.2	6.5	6.5	3.80	8.50	8.50
	24	13				4.27	2.23				3.2	6.5	6.5	3.80	8.50	8.50
	22	16				3.71	2.79				3.2	6.5	6.5	3.80	8.50	8.50
	24	16				3.98	2.52				3.2	6.5	6.5	3.80	8.50	8.50
	22	22				3.50	3.50				3.2	7.0	7.0	3.80	8.50	8.50
	24	22				3.79	3.21				3.2	7.0	7.0	3.80	8.50	8.50
	24	24				3.50	3.50				3.2	7.0	7.0	3.80	8.50	8.50
3-unit operation	10	10	10			2.27	2.27	2.27			3.8	6.8	6.8	4.59	8.50	8.50
	13	10	10			2.81	2.05	2.05			3.9	6.9	6.9	4.64	8.50	8.50
	16	10	10			3.14	1.88	1.88			4.0	6.9	6.9	4.64	8.50	8.50
	13	13	10			2.53	2.53	1.84			4.0	6.9	6.9	4.64	8.50	8.50
	16	13	10			2.89	2.38	1.73			4.1	7.0	7.0	4.69	8.50	8.50
	13	13	13			2.33	2.33	2.33			4.1	7.0	7.0	4.69	8.50	8.50
	22	10	10			3.74	1.68	1.68			4.1	7.1	7.1	4.69	8.50	8.50
	16	16	10			2.73	2.73	1.64			4.1	7.1	7.1	4.69	8.50	8.50
	16	13	13			2.68	2.21	2.21			4.1	7.1	7.1	4.69	8.50	8.50
	24	10	10			4.03	1.53	1.53			4.1	7.1	7.1	4.69	8.50	8.50
	22	13	10			3.44	2.12	1.55			4.1	7.1	7.1	4.69	8.50	8.50
	16	16	13			2.52	2.52	2.07			4.1	7.1	7.1	4.69	8.50	8.50
	24	13	10			3.73	1.95	1.42			4.1	7.1	7.1	4.69	8.50	8.50
	22	16	10			3.27	2.45	1.47			4.3	7.2	7.2	4.73	8.50	8.50
	22	13	13			3.22	1.99	1.99			4.3	7.2	7.2	4.73	8.50	8.50
	16	16	16			2.40	2.40	2.40			4.3	7.2	7.2	4.73	8.50	8.50
	24	16	10			3.57	2.27	1.36			4.3	7.2	7.2	4.73	8.50	8.50
	24	13	13			3.53	1.84	1.84			4.3	7.2	7.2	4.73	8.50	8.50
	22	16	13			3.04	2.28	1.88			4.3	7.2	7.2	4.73	8.50	8.50
	24	16	13			3.34	2.12	1.74			4.3	7.2	7.2	4.73	8.50	8.50
22	22	10			3.02	3.02	1.36			4.1	7.4	7.4	4.69	8.50	8.50	
24	22	10			3.37	2.85	1.28			4.1	7.5	7.5	4.69	8.50	8.50	
24	24	10			3.15	3.15	1.20			4.1	7.5	7.5	4.69	8.50	8.50	


Specifications

Multi Inverter

Combination with RAS-5M41UACV-SG (2/2) Ampere limitation 8.5A, cooling under 230V																
Operating Status	Combination					Unit capacity					Cooling capacity			Operating current		
	Unit A	Unit B	Unit C	Unit D	Unit E	kW					kW			A		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated.	Max.	Min.	Rated.	Max.
4-unit operation	10	10	10	10		1.80	1.80	1.80	1.80		4.1	7.2	7.2	4.54	8.50	8.50
	13	10	10	10		2.32	1.69	1.69	1.69		4.1	7.4	7.4	4.54	8.50	8.50
	16	10	10	10		2.68	1.61	1.61	1.61		4.2	7.5	7.5	4.59	8.50	8.50
	13	13	10	10		2.17	2.17	1.58	1.58		4.2	7.5	7.5	4.59	8.50	8.50
	16	13	10	10		2.48	2.04	1.49	1.49		4.2	7.5	7.5	4.59	8.50	8.50
	22	10	10	10		3.19	1.44	1.44	1.44		4.2	7.5	7.5	4.59	8.50	8.50
	13	13	13	10		2.01	2.01	2.01	1.47		4.2	7.5	7.5	4.59	8.50	8.50
	16	16	10	10		2.34	2.34	1.41	1.41		4.2	7.5	7.5	4.59	8.50	8.50
	24	10	10	10		3.50	1.33	1.33	1.33		4.2	7.5	7.5	4.59	8.50	8.50
	16	13	13	10		2.31	1.90	1.90	1.39		4.2	7.5	7.5	4.59	8.50	8.50
	22	13	10	10		2.98	1.84	1.34	1.34		4.2	7.5	7.5	4.59	8.50	8.50
	13	13	13	13		1.88	1.88	1.88	1.88		4.2	7.5	7.5	4.59	8.50	8.50
	16	16	13	10		2.19	2.19	1.80	1.31		4.2	7.5	7.5	4.59	8.50	8.50
	24	13	10	10		3.29	1.71	1.25	1.25		4.2	7.5	7.5	4.59	8.50	8.50
	22	16	10	10		2.83	2.12	1.27	1.27		4.2	7.5	7.5	4.59	8.50	8.50
	16	13	13	13		2.16	1.78	1.78	1.78		4.2	7.5	7.5	4.59	8.50	8.50
	22	13	13	10		2.80	1.72	1.72	1.26		4.2	7.5	7.5	4.59	8.50	8.50
	24	16	10	10		3.13	1.99	1.19	1.19		4.2	7.5	7.5	4.59	8.50	8.50
	16	16	13	13		2.06	2.06	1.69	1.69		4.2	7.5	7.5	4.59	8.50	8.50
	24	13	13	10		3.10	1.61	1.61	1.18		4.2	7.5	7.5	4.59	8.50	8.50
	22	16	13	10		2.66	2.00	1.64	1.20		4.2	7.5	7.5	4.59	8.50	8.50
	22	13	13	13		2.63	1.62	1.62	1.62		4.2	7.5	7.5	4.59	8.50	8.50
	24	16	13	10		2.96	1.88	1.54	1.13		4.2	7.5	7.5	4.59	8.50	8.50
	24	13	13	13		2.93	1.52	1.52	1.52		4.2	7.5	7.5	4.59	8.50	8.50
22	16	13	13		2.51	1.89	1.55	1.55		4.2	7.5	7.5	4.59	8.50	8.50	
24	16	13	13		2.80	1.78	1.46	1.46		4.2	7.5	7.5	4.59	8.50	8.50	
5-unit operation	10	10	10	10	10	1.50	1.50	1.50	1.50	1.50	3.7	7.5	7.5	4.59	8.50	8.50
	13	10	10	10	10	1.91	1.40	1.40	1.40	1.40	3.7	7.5	7.5	4.59	8.50	8.50
	16	10	10	10	10	2.21	1.32	1.32	1.32	1.32	3.7	7.5	7.5	4.59	8.50	8.50
	13	13	10	10	10	1.79	1.79	1.31	1.31	1.31	3.7	7.5	7.5	4.59	8.50	8.50
	16	13	10	10	10	2.07	1.70	1.24	1.24	1.24	3.7	7.5	7.5	4.59	8.50	8.50
	22	10	10	10	10	2.71	1.22	1.22	1.22	1.22	3.7	7.6	7.6	4.59	8.50	8.50
	13	13	13	10	10	1.68	1.68	1.68	1.23	1.23	3.7	7.5	7.5	4.59	8.50	8.50
	16	16	10	10	10	1.97	1.97	1.18	1.18	1.18	3.7	7.5	7.5	4.59	8.50	8.50
	24	10	10	10	10	3.01	1.15	1.15	1.15	1.15	3.7	7.6	7.6	4.59	8.50	8.50
	16	13	13	10	10	1.95	1.60	1.60	1.17	1.17	3.7	7.5	7.5	4.59	8.50	8.50
	22	13	10	10	10	2.56	1.58	1.15	1.15	1.15	3.7	7.6	7.6	4.59	8.50	8.50
	13	13	13	13	10	1.59	1.59	1.59	1.59	1.16	3.7	7.5	7.5	4.59	8.50	8.50
	16	16	13	10	10	1.89	1.89	1.55	1.13	1.13	3.7	7.6	7.6	4.59	8.50	8.50
	24	13	10	10	10	2.86	1.49	1.09	1.09	1.09	3.7	7.6	7.6	4.59	8.50	8.50
	16	13	13	13	10	1.87	1.54	1.54	1.54	1.12	3.7	7.6	7.6	4.59	8.50	8.50
	22	13	13	10	10	2.43	1.50	1.50	1.09	1.09	3.7	7.6	7.6	4.59	8.50	8.50
	13	13	13	13	13	1.52	1.52	1.52	1.52	1.52	3.7	7.6	7.6	4.59	8.50	8.50
	16	16	13	13	10	1.79	1.79	1.47	1.47	1.07	3.7	7.6	7.6	4.59	8.50	8.50
	16	13	13	13	13	1.77	1.46	1.46	1.46	1.46	3.7	7.6	7.6	4.59	8.50	8.50
	24	13	13	10	10	2.71	1.41	1.41	1.03	1.03	3.7	7.6	7.6	4.59	8.50	8.50
	22	13	13	13	10	2.30	1.42	1.42	1.42	1.04	3.7	7.6	7.6	4.59	8.50	8.50
	16	16	13	13	13	1.70	1.70	1.40	1.40	1.40	3.7	7.6	7.6	4.59	8.50	8.50

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