

Think GAIA
For Life and the Earth

SANYO

Room Air Conditioners 2007/08



SANYO Air Conditioners. The natural choice.



SANYO participates in the Eurovent certification programme

Eurovent/Cecomaf is an independent organisation of major air conditioning manufacturers who have agreed, on a voluntary basis, to adhere to performance certification programmes.

The presence of the Eurovent logo confirms that a manufacturer's performance data has been verified by independent laboratories. It is also a guarantee that information such as capacity, current draw and noise levels meet consumer requirements.



SANYO

Think GAIA - the environmental philosophy of SANYO



Think GAIA For Life and the Earth

Environmental sustainability and "Think GAIA"

In the latter part of the last century, mankind's pursuit of convenience and material comfort left indelible stains such as global warming and environmental destruction. SANYO has always had a strong environmental focus, however in 2005 we took that a stage further and based our whole corporate philosophy on the concept of "Think GAIA". Under this vision SANYO has committed to using its global resources and skills to develop solutions for a sustainable coexistence on earth.

What is "Think GAIA"?

"GAIA", originally the mythological goddess of the earth, is a concept rapidly gaining momentum today. Based around the belief that living organisms on the earth affect the nature of their environments, the concept of "GAIA" was first proposed by the English scientist James Lovelock. Lovelock proposed the idea of earth as a living, green organism where mankind and all living things live in harmony.

The Natural Choice

We all like the idea of creating a clean, natural environment in our homes like that found in nature. The advanced features of SANYO's air conditioners aim to make this a reality. If you are concerned about comfort, efficiency and the environment then SANYO Air Conditioners are the natural choice.

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Class A Energy Efficiency

Energy		Air conditioning	Product Type
Manufacturer	SANYO		
External Unit	SAP -****		Reference
Internal Unit	SAP -****		
More Efficient	A		Energy Class There are seven classes, from "A" to "G"
A	B		
B	C		
C	D		
D	E		
E	F		
F	G		
Less Efficient			
Annual energy consumption in cooling mode KW/h/year <small>(Annual consumption depends on climate and how the unit is used)</small>	***		Annual energy consumption The annual energy consumption is calculated by multiplying the consumption at full cooling capacity by an average of 500 hours of operation.
Cooling output Energy efficiency ratio <small>Full load (the higher the better)</small>	KW ***		Energy efficiency ratio The higher the numerical value of this ratio, the more efficient is the air conditioning unit.
Type	Cooling Only —		Climate
	Cooling + Heating — ←		
	Air Cooled — ←		
	Water Cooled —		
Heat Output	KW ***		
Heating Performance <small>A: higher G: lower</small>	A B C D E F G		
Noise <small>(dB(A) re 1 pW)</small>	** **		Product noise Inside Outside
Further information is contained in product brochures. Norm EN 814 Air-Conditioner Energy Label Directive 2002/31/EC			

Complete range within class A

All of the air conditioners offered by SANYO in this catalogue are in class A for both cooling and heating functions. This is the highest class defined by European standards.

There are seven classes of energy efficiency, defined by the letters A-G. Products marked with class 'A' are the most energy efficient, while those marked with the letter 'G' are the least efficient.

SANYO Air Conditioners provide comfort cooling and heating



Reliability and comfort

Product quality not only implies high performance but, above all, high product reliability - our products are capable of guaranteeing durable function for a long period of time. However, when dealing with air conditioners, comfort is a priority and the multiple special functions that SANYO air conditioners are equipped with demonstrate an extraordinary attention to care for the environment in which we live. Furthermore, all Split type units include a heat pump function, guaranteeing the right internal temperature both in summer and in winter.

Unique solutions

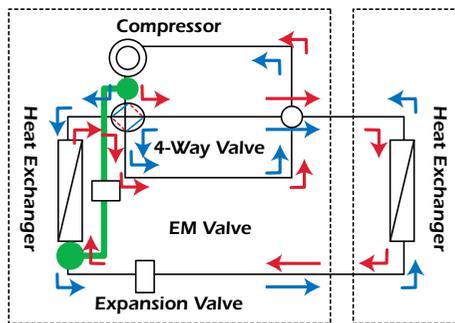
SANYO utilises innovative and exclusive solutions for its air conditioners. One such innovation is the defrosting system without cycle-inversion: the hot gas bypass maintains a comfortable internal temperature, even in very cold external conditions.

Furthermore, the temperature sensor integrated within the remote control continuously monitors the temperature at the desired location.

Non-stop heating function

In traditional air conditioners, when the external temperature becomes extremely cold it is necessary to invert the refrigeration cycle in order to defrost the external heat exchanger and attain correct functional efficiency of the external unit. During this defrosting cycle, the air conditioner does not provide heat.

With SANYO's exclusive system, the inversion of the cycle is unnecessary, avoiding interruption of the heating function. A sophisticated bypass system, operated by means of an electrically actuated valve, delivers hot refrigerant from the compressor directly to the external heat exchanger. This means that the inversion of the refrigeration cycle is no longer necessary and the heating function is always efficient.



Cleans air of bacteria, germs and allergens

Units equipped with photocatalytic sterilisation contain a special anti-bacterial function, which is equipped with a UV lamp. The lamp, coupled with a regenerative filter, enables the elimination of bacteria, germs and allergens in the air. The function can be activated by pushing the LED CLEAN key. This activates the UV antibacterial unit for approximately one hour, holding bacteria within the filter and eliminating all bacteria in the treated airflow.

Quiet key

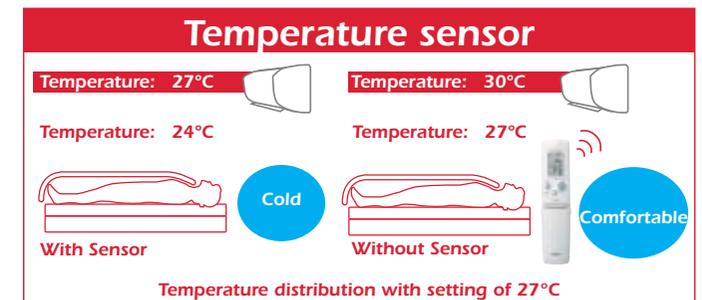
By pushing this key, you can enable the fan of the air conditioning unit to operate at an ultra-low speed. Consequently, the quantity of airflow is also reduced, providing the benefit of quiet operation. This function is particularly useful at night.



Temperature sensor function

Modern architecture calls for installation of air conditioning systems in spaces that are not ideal for comfortable cooling and heating of the local environment. SANYO's infrared remote controls are equipped with an ambient temperature sensor. This sensor can be activated instead of the one mounted on the internal unit by pressing the Sensor key on the remote control. In this manner, the required temperature is guaranteed exactly where it is requested, regardless of the position of the unit within the room.

Temperature sensor



The guarantee of a renowned brand

SANYO is a multinational group of 83 plants, 40 commercial divisions and 37 service organisations worldwide. SANYO's strategic business is focused in the sectors of digital appliances, energy and ecology. Aware of the problems caused by lack of respect for the ecosystem, SANYO has developed technologies that minimise environmental impact - and has set this objective as an absolute priority for the company.



ROOM AIR CONDITIONERS

Mini Shiki Sai Kan



Following the success and popularity of the Shiki Sai Kan, SANYO have developed a smaller version. Not only stylish, it offers exceptional energy-saving performance.

See page 27 for product specifications



Simple elegant design with panels available in 5 different colours.



- Cooling and heating down to -15°C
- The LED photocatalytic sterilisation function ensures excellent performance to combat odours, germs and bacteria
- Automatic sweep control
- Apatite ceramic filter for additional filtration of odours, germs and bacteria
- Multi-functional remote control with built-in temperature sensor
- Clock with ON/OFF program timer
- Washable front panel
- Low noise levels: 22 dBA (Quiet mode)
- Night Set Back/Economy mode function ensures quiet and energy-saving cooling and heating

Shiki Sai Kan

Available in 7 different colours



See page 28 for product specifications



Shiki Sai Kan

Record-level performance

With a power consumption of only 530W, it consumes the least energy in its category.

Non-stop heating function

With SANYO's exclusive system, the cycle inversion is unnecessary, avoiding interruption of the heating function.

Negative ion generator

Releases a powerful stream of healthy negative ions to revitalise the air, similar to the freshness of an uncontaminated forest or waterfall.

Ultra-quiet operation

At a noise level of only 22 dB(A), just louder than the noise of rustling leaves, the Shiki Sai Kan air conditioning unit will provide you with superior quality comfort.

Photocatalytic ceramic apatite filter

Constructed from a triple filtering layer to eliminate odours, particles and bacteria, it provides an effective air purification system that can easily be regenerated with running water.

Photocatalytic sterilisation

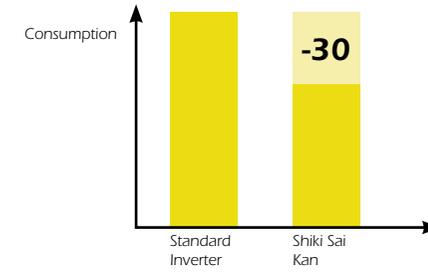
The light-activated sterilising filter captures bacteria, germs and allergens and neutralises them with radiation from the LED lamp. This LED lamp also provides the regeneration function for the filtering system, guaranteeing constant and durable performance.

Good design award 2005

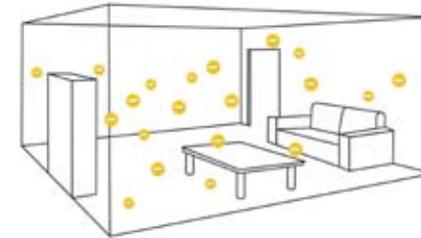
The unit-designed symmetrically in the horizontal and vertical directions, with diagonally chamfered upper and lower corners - creates a perfect equilibrium between the purity and brilliance of the product families. It can therefore complement any interior design. Instead of being merely "an appliance hanging on the wall" it is seen as "an accessory that improves interior design".



Prized performance



Negative ion generator

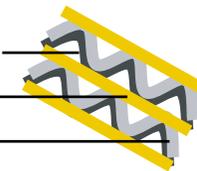


Photocatalytic ceramic apatite filter

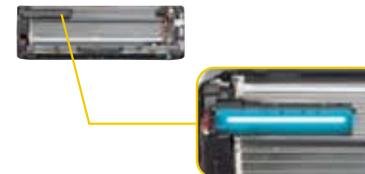
Odour-absorbing layer

Antibacterial layer

Anti dust filter



Photocatalytic sterilisation



Shiki Sai Kan

External unit



The external unit is also quiet



Versatile and elegant design

The smooth silver panel is also available in six other colours, so you can adapt the air conditioning unit to suit your home's interior furnishing.

3D airflow

The flow of air can be delivered in any desired direction by means of four different motors to guarantee optimal distribution within the surrounding environment.

Twin-rotor compressor

SANYO's double compressor rotor not only offers quiet and efficient operation, but also guarantees reliability.

Retractable panel

During operation, the front panel of the air conditioning unit opens to guarantee the optimal distribution of air across the entire surface of the heat exchanger. This improves the uniformity of the airflow, as well as functional efficiency and operational noise levels. When the air conditioner is shut off, the panel automatically returns to the closed position, protecting the unit from dust.

Multi-function remote control

The remote control's large display provides a complete overview of the air conditioner's functions while the integrated temperature sensor ensures operation at optimal temperature, according to your specified preference. The

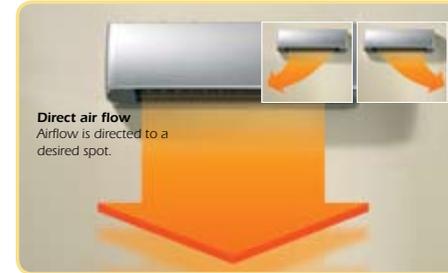
main functions of the air conditioner are immediately available and you can access advanced functions by opening a small window.

Multi-use timer

The useful clock/timer allows several programmes to be configured within a 24-hour period - with or without daily repetition. An additional timer provides a 'sleep' function, which can be used to delay the unit's shut-off function by 1, 2, 3 or 5 hours. This is particularly useful at night.



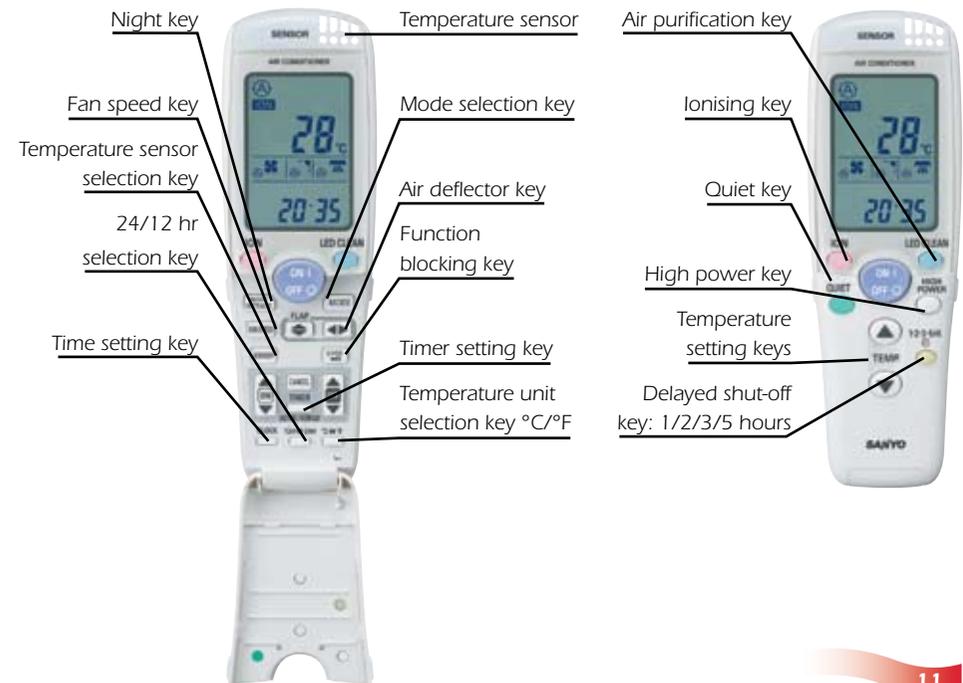
3-D Air Vent



Retractable Panel



Multi-function Remote Control



LED-clean inverter range

See page 29 for product specifications



Double class A

Guarantees maximum energy saving throughout the entire year.

Avant-garde design

The sleek and discrete design fits perfectly in any interior, be it modern or classic.

DC inverter technology

Permits accurate and efficient temperature control - at minimum speed, the power consumption is a mere 250W. The exceptional performance of the SANYO Inverter is achieved via a double control (PWM and PAM), optimising operation at both low and high capacities.

Photocatalytic sterilisation

The light-activated sterilising filter captures bacteria, germs and allergens and neutralises them with radiation from the LED lamp. This LED lamp also provides the regeneration function for the filtering system, guaranteeing constant and durable performance.

High power key

Enables a comfortable temperature to be reached rapidly by setting the fan to operate at maximum speed for 30 consecutive minutes.

Ultra-quiet

Emitting only 22 dB(A) - model 9,000 BTU/h - at the lowest fan speed, SANYO's Inverter Air Conditioners are among the quietest units on the market.

Comfort remote control

The temperature sensor located within the remote control guarantees the best conditions for comfort at the desired location.

Night key

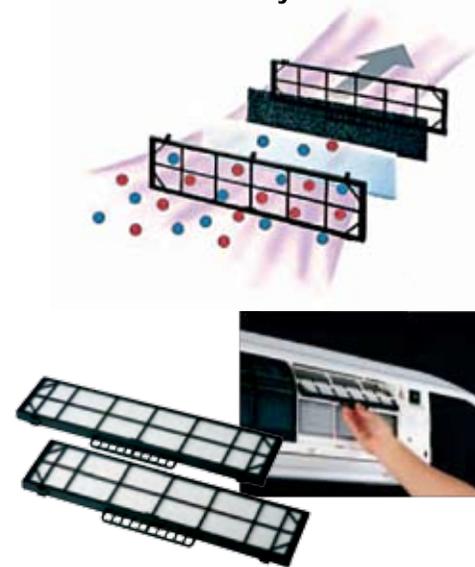
This special function enables you to specify a pleasant ambient temperature, quiet operation and low current consumption during the night.



Double A Class

A Maximum energy saving

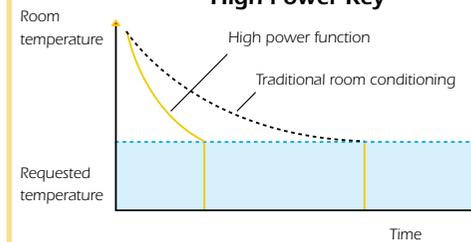
Double Layer Filter



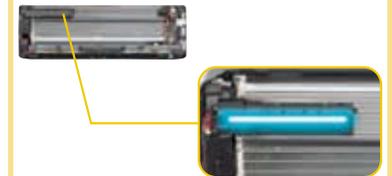
Comfort Remote Control



High Power Key



Photocatalytic sterilisation



Ion Inverter Range

See page 30 for product specifications



Double class A

Guarantees maximum energy saving throughout the entire year.

Avant-garde design

The sleek and discrete frontal design, embellished with the silver 'Ion Inverter' logo, fits perfectly in any interior, be it modern or classic.

DC inverter technology

Permits accurate and efficient temperature control - at minimum speed, the power consumption is a mere 250W. The exceptional performance of the SANYO Inverter is achieved via a double control (PWM and PAM), optimising operation at both low and high capacities.

Ionising filter

Enriches the airflow with negative ions to create the same pleasant sensation and freshness as an uncontaminated forest or waterfall.

Double-layer filter

Consists of a special antibacterial pre-filter and odour filters that can easily be regenerated with running water.

High power key

Enables a comfortable temperature to be reached rapidly by setting the fan to operate at maximum speed for 30 consecutive minutes.

Ultra-quiet

Emitting only 22 dB(A) - model 9,000 BTU/h - at the lowest fan speed, SANYO's Inverter Air Conditioners are among the quietest units on the market.

Comfort remote control

The temperature sensor located within the remote control guarantees the best conditions for comfort at the desired location.

Night key

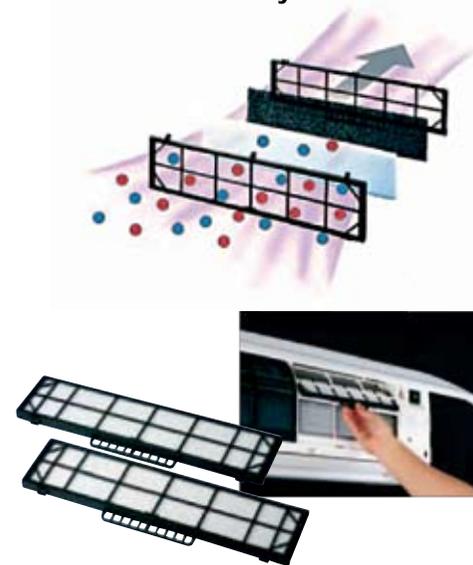
This special function enables you to specify a pleasant ambient temperature, quiet operation and low current consumption during the night.



Double A Class

A Maximum energy saving

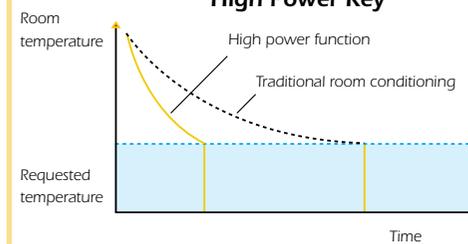
Double Layer Filter



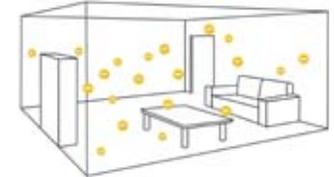
Comfort Remote Control



High Power Key

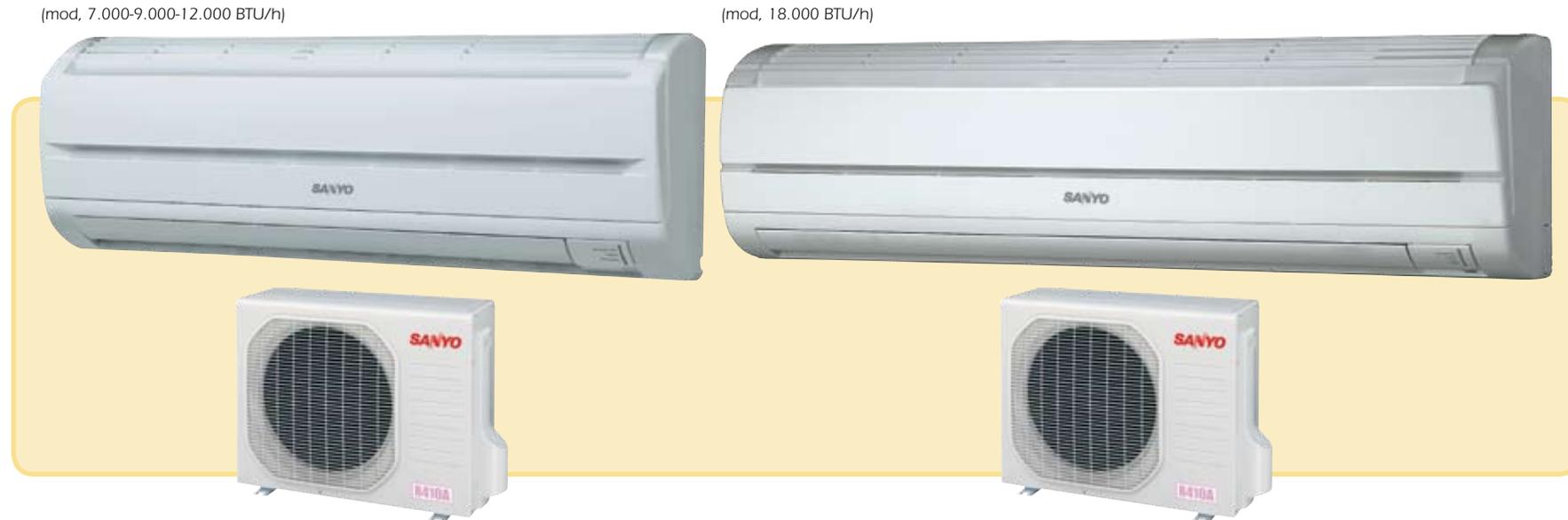


Negative ion generator



Classic On-Off Systems

See page 31 for product specifications



Compact and harmonious design

The sleek and discrete frontal design fits perfectly in any interior, be it modern or classic.

Double class A

Guarantees maximum energy saving throughout the entire year.

Double-layer filter

Consists of a special antibacterial pre-filter and odour filters that can easily be regenerated with running water.

Comfort remote control

The temperature sensor located within the remote control guarantees the best conditions for comfort at the desired location.

Multi-use timer

The useful clock/timer allows several programmes to be configured within a 24-hour period - with or without daily repetition. An additional timer provides a 'sleep' function, which can be used to delay the unit's shut-off function by 1 hour.

High power key

Enables a comfortable temperature to be reached rapidly by setting the fan to operate at maximum speed for 30 consecutive minutes.

Quiet key

Guarantees a quiet operation at only 25 dB(A) for models 7,000, 9,000 and 12,000 BTU/h.

Pre-heating function

Avoids a cold airflow when starting the system in heating mode, by providing an immediate flow of warm air.

Night key

This special function enables you to specify a pleasant ambient temperature, quiet operation and low current consumption during the night.

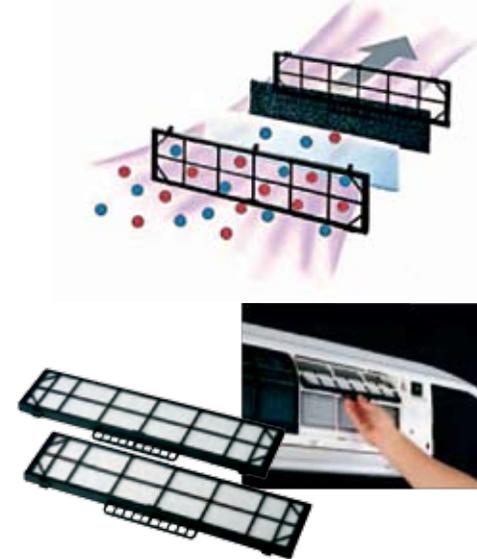
Classic On-Off Systems



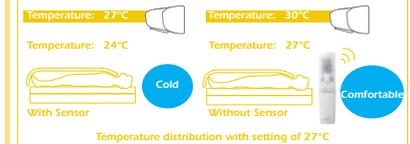
Double A Class

A Maximum energy saving

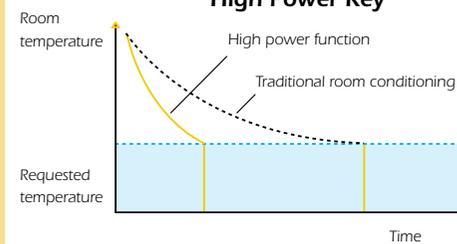
Double Layer Filter



Comfort Remote Control



High Power Key



Multi-split DC Inverter

See page 32 for product specifications



Ultra-compact dimensions

The two-room contemporary air conditioning unit can be delivered with an external unit that is only 19% larger than the mono-split version (14,000 BTU/h multi model).

Twin-rotor compressor

SANYO's double compressor rotor not only offers quiet and efficient operation, but also guarantees reliability.

DC inverter technology

Guarantees precise and efficient control of the power as a function of the requirement in every single room, allowing a significant energy saving with respect to on/off systems. The exceptional performance of the SANYO Inverter is achieved via a double control (PWM and PAM), optimising operation at both low and high capacities.

Double class A

Guarantees maximum energy saving throughout the entire year.

Negative ion generator

Releases a powerful stream of healthy negative ions to revitalise the air similar to the freshness of an uncontaminated forest or waterfall.

Comfort remote control

The temperature sensor located within the remote control guarantees the best conditions for comfort at the desired location.

Night key

This special function enables you to specify a pleasant ambient temperature, quiet operation and low current consumption during the night.

Non-stop heating function

With SANYO's exclusive system, the cycle inversion for defrosting is unnecessary, avoiding interruption of the heating function.

Photocatalytic ceramic apatite filter

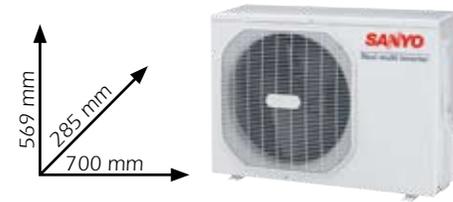
Constructed from a triple filtering layer to eliminate odours, particles and bacteria, it provides an effective air purification system that can easily be regenerated with running water.



Double A Class

A Maximum energy saving

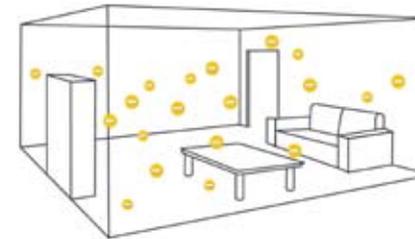
Ultra-compact dimensions



Comfort Remote Control



Negative ion generator

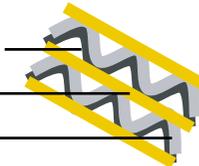


Photocatalytic ceramic apatite filter

Odour-absorbing layer

Antibacterial layer

Anti-dust filter





VIRUS WASHER

For rooms up to 40 m²

It is commonly stated that the average adult inhales 15,000 litres of air every day. Given that air is so important to our existence, it is fundamental that we treat this invisible substance that surrounds us with care.

That is why SANYO has developed the Virus Washer, which is able to inactivate viruses that are present in the air by electrolysing the water. With this innovative system, the air is literally 'washed', rendering it fresh and clean.

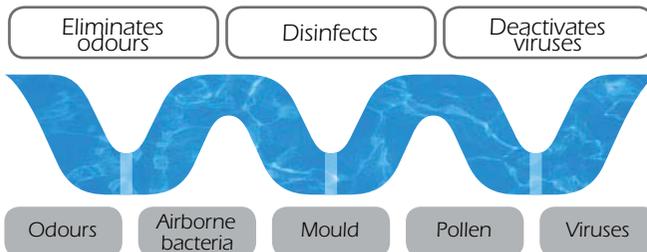
SANYO's virus washer has already set new benchmarks for air purification.



See page 34 for product specifications



The power of water as an air purifier



Virus Washer

Destroys viruses, pollen and allergens in the air

The combination of hydroxyl radicals and hypochloric acid that is contained in the electrolysed water acts to destroy points on the surface of a virus. This enables any substance dispersed in the air - such as viruses, bacteria, fungi and pollen, acari (mites, ticks) and odour molecules - to be encapsulated, rendered inactive and deodorised.

Effective on all contaminating agents

Virus deactivation

Reduction of 99.5% of viruses present in the air

Allergen control

Reduction of pollen by 95%

Reduction of acari (ticks and mites) by 99%

Reduction of flakes from cats and dogs by 97%

Disinfecting effect

Reduces mould by 99%

Eliminates 99% of airborne bacteria

Deodorising effect

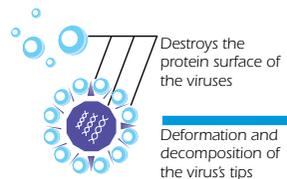
Rapid removal of odours from cigarette smoke and pets



Combined action of electrolytic water

Deactivates viruses

Destroys the protein surface of the viruses.



Destroys pollen

Wraps around pollen destroying the surfaces.



Eliminates odours

Water vapour encapsulates the molecules and eliminates odours.



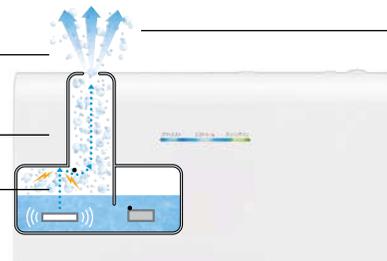
Disinfecting effect of electrolysed water

Vapour generating method

3 Vapour dispersion

2 Generation of electrolysed water

1 Ultrasonic vibrating element



Extensive disinfecting effect

Disinfecting, electrolytic vapour is generated by ultrasonic vibration. Since electrolytic vapour is effective on minute particles in the range of 10 nanometres to 10 micrometres in diameter, a wide range of contaminants can be removed, from relatively large pollens to microscopic viruses.

1 nanometre = 10^{-9} m
1 micrometre = 10^{-6} m

Virus Washer

A lasting disinfecting effect that purifies the air in every corner of the room

Several objects in a room, such as tables and sofas, can obstruct airflow from an air conditioner. To resolve this problem, SANYO uses a system that disperses vapour in three directions: upwards, to the left and to the right. These jets of air effectively disinfect the room, reaching every corner - even in and around furniture.

360° protection of the environment in which we live germs embed themselves in spaces like these:



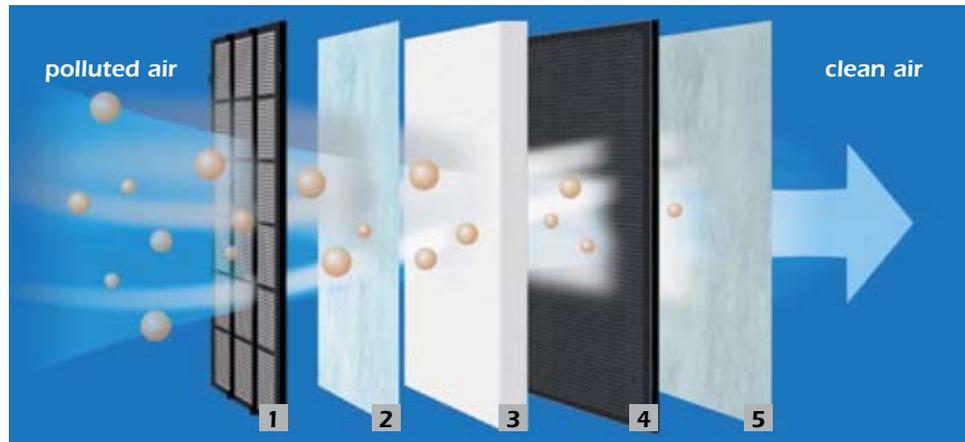
Virus Washer

Particles and odours are captured by a high performance, five layer filter

The large and multi-directional air inlets capture even the finest particles. Even microscopic odours and contaminants that are trapped are removed by a high performance, five layer filter. This includes a layer that is effective against allergens and an HEPA disinfecting filter.



5-layered filter air purification



Functions of the five filtering layers:

1. Pre-filter

Removes large particles. Can be cleaned by washing under running water or using a vacuum cleaner.

Reduction of odours

2. Allergen disinfecting filter

Renders trapped bacteria and mites from dust and pollen inactive.

Reduction of 99% of fungi and bacteria

Reduction of 98% of mites from dust
Reduction of 99% of pollen

3. HEPA filter

Removes 99.97% of fine particles down to 0.3 micrometers.

Bacteria; fungi and spores; dust mites; pollens; domestic dust; dust

4. Nanotech carbon odour filter

Captures and eliminates odours from smoke, tobacco, domestic animals and formaldehyde.

5. Catechin disinfecting filter

Produced with an antibacterial substance containing catechin, it renders the trapped viruses and bacteria inactive.

Reduction of 99% of fungi and bacteria

Air Purifier Ioniser

Triple-layer filter

SANYO's filtering system comprises three different filters that guarantee effective air treatment and simple maintenance.

Anti-pollen function

An automatic fan speed function guarantees the effective removal of pollen and spores.

Timer

The purifier's shut-off may be delayed by 1, 2 or 8 hours, enabling you to enjoy purified and ionised air throughout the night.

HEPA filter

Removes and renders inactive 99% of bacteria, spores and contaminants by means of an antibacterial coating on the filter's surface.

Activated charcoal filter

By exploiting the properties of activated charcoal, this filter can effectively absorb and retain odours.

Adjustable inclination

The device may be inclined to promote optimal purifying effectiveness.

Negative ion generator

Releases a powerful stream of healthy negative ions to revitalise the air, similar to the freshness of an uncontaminated forest or waterfall.

Large air inlets

Placed on all sides, the large air inlets effectively reach all corners within the environment.

Powerful and quiet airflow

Using the three-speed fan selector, it is possible to select an optimal airflow for your environment and needs.

Low power consumption

At minimum speed, power consumption is below 20W - less than that of a table lamp

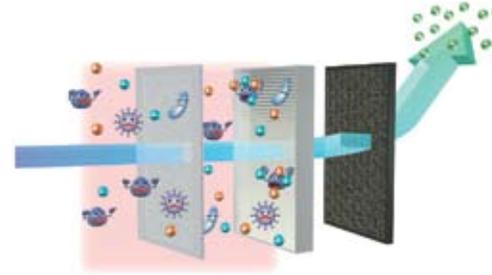
See page 34 for product specifications



Air Purifier Ioniser



Triple Layer Filtering



Adjustable inclination



Negative ion generator



Large air inlets



Product Specifications

ROOM AIR CONDITIONERS: DC INVERTER SYSTEMS

MINI SHIKI SAI KAN (see page 7)					
		Model 96		Model 126	
Performance		Cooling	Heating	Cooling	Heating
Capacity	kW	0.9-2.65-3.6	0.9-3.6-4.9	0.9-3.5-3.6	0.9-4.8-5.4
Power input	W	250-650-1040	250-650-1400	250-1025-1200	250-1165-1600
EER/COP		4.21	4.31	3.41	3.81
Energy class		A	A	A	A
Running amperes	A	1.3-3.3-5.4	1.2-4.0-6.8	1.2-4.8-5.6	1.1-5.8-7.3
Annual energy consumption (cooling)	kW	315	-	512.5	-
Power supply	V,Ph,Hz	230, 1+N, 50 outdoor unit			
Indoor Unit		SAP-KRV96EHDS		SAP-KRV126EHDS	
Air circulation	(H) m³/h	480	480	500	500
Moisture removal	Litres/h	1.6	-	2.0	-
Sound power level	(H) dB(A)	56	56	57	57
Sound pressure level	(Quiet/L/M/H) dB(A)	22/28/35/41	22/28/35/41	22/28/35/42	22/29/36/42
Dimensions	(HxWxD) mm	265x789x180		265x789x180	
Net weight	kg	9.5		9.5	
Outdoor Unit		SAP-CRV96EHDS		SAP-CRV126EHDS	
Sound power level	(H) dB(A)	63	64	65	66
Sound pressure level	(H) dB(A)	45	46	47	48
Dimensions	(HxWxD) mm	565x790x265		565x790x265	
Net weight	kg	36		36	
Installation Data		Model 96		Model 126	
Pipe size function/discharge	Inches	1/4, 3/8		1/4, 3/8	
Max piping length	m	15		15	
Max elevation diff. - O.U. - I.U.	m	7		7	
Chargeless piping length	m	7.5		7.5	
Amount of additional refrigerant	AMP	15		15	



Product Specifications



ROOM AIR CONDITIONERS: DC INVERTER SYSTEMS cont

SHIKI SAI KAN (see page 8)					
		SAP-KCRV94EHDX		SAP-KCRV124EHDX	
Performance		Cooling	Heating	Cooling	Heating
Capacity min-nom-max	kW	0,9-2,65-3,8	0,9-3,6-5,5	0,9-3,5-4,2	0,9-4,8-6,0
	BTU/h	3.100-9.000-13.000	3.100-12.300-18.800	3.100-11.900-14.300	3.100-16.400-20.500
Power consumption min-nom-max	W	250-530-1350	250-720-1450	250-875-1435	250-1140-2150
	A	1,6-2,4-6,9	1,6-3,3-9,9	1,6-4,0-7,8	1,6-5,2-9,9
Efficiency EER/COP	W/W	5,00	5,00	4,00	4,21
Energy class	-	A	A	A	A
Annual power consumption (cooling)	kWh	265	-	437,5	-
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50	
Internal Unit		SAP-KRV94EHDX		SAP-KRV124EHDX	
Maximum air flow	m ³ /h	600	600	630	630
Dehumidifying capacity	Litres/h	1,8	-	2	-
Sound pressure level (Quiet/B/M/A)	dB(A)	22/30/38/39	22/30/38/40	22/30/38/40	22/30/38/41
Sound power level (A)	dB(A)	54	55	55	56
Dimensions (HxLxD)	mm	300x898x200		300x898x200	
Net weight	kg	12,5		12,5	
External Unit		SAP-CRV94EHDX		SAP-CRV124EHDX	
Sound pressure level (A)	dB(A)	49	50	50	51
Sound power level (A)	dB(A)	67	68	68	69
Dimensions (HxLxD)	mm	569x790x285		569x790x285	
Net weight	kg	40		40	
Installation Data		model 94		model 124	
Refrigerant pipe diameter discharge/suction	mm(in)	6,35 (1/4)/9,52 (3/8)		6,35 (1/4)/9,52 (3/8)	
Maximum pipe length	m	15		15	
Maximum elevation difference ext. unit - int. unit	m	10		10	
Maximum precharged pipe length	m	7,5		7,5	
Additional refrigerant (in excess of 7,5m)	g/m	15		15	

Note: Shiki-Sai-Kan internal units can also be supplied without the silver coloured front panel by ordering models SAP-KRV94EHX and SAP-KRV124EHX.

ROOM AIR CONDITIONERS: DC INVERTER SYSTEMS cont

LED-clean inverter range (see page 12)					
		SAP-KCRV96EHE		SAP-KCRV126EHE	
Performance		Cooling	Heating	Cooling	Heating
Capacity min-nom-max	kW	0,9-2,5-3,2	0,9-3,3-4,3	0,9-3,3-3,8	0,9-4,0-5,0
	BTU/h	3.100-8.500-10.900	3.100-11.300-14.700	3.100-11.300-13.000	3.100-13.600-17.100
Power consumption min-nom-max	W	250-775-1150	250-915-1360	250-1025-1300	250-1105-1470
	A	1,3-3,9-5,8	1,2-4,4-6,6	1,1-4,7-6,0	1,1-5,1-6,7
Efficiency EER/COP	W/W	3,23	3,61	3,22	3,62
Energy class	-	A	A	A	A
Annual power consumption (cooling)	kWh	387,5	-	512,5	-
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50	
Internal Unit		SAP-KRV96EHE		SAP-KRV126EHE	
Maximum air flow	m ³ /h	350	430	520	570
Dehumidifying capacity	Litres/h	1,4	1,8	-	-
Sound pressure level	(Quiet/B/M/A) dB(A)	22/30/36/39	22/30/36/39	25/30/36/40	25/30/36/40
Sound power level	(A) dB(A)	56	56	57	57
Dimensions	(HxLxD) mm	285x825x219		285x825x219	
Net weight	kg	9		9	
External Unit		SAP-CRV96EHE		SAP-CRV126EHE	
Sound pressure level	(A) dB(A)	47	47	48	48
Sound power level	(A) dB(A)	63	63	64	64
Dimensions	(HxLxD) mm	548x720x265		548x720x265	
Net weight	kg	30		32	
Installation Data		model 96		model 126	
Refrigerant pipe diameter discharge/suction	mm(in)	6,35 (1/4)/9,52 (3/8)		6,35 (1/4)/9,52 (3/8)	
Maximum pipe length	m	15		15	
Maximum elevation difference ext. unit - int. unit	m	10		10	
Maximum precharged pipe length	m	7,5		7,5	
Additional refrigerant	(in excess of 7,5m) g/m	15		15	



Product Specifications



ROOM AIR CONDITIONERS: DC INVERTER SYSTEMS cont

		ION INVERTER (see page 14)			
		SAP-KCRV93EHE		SAP-KCRV123EHE	
Performance		Cooling	Heating	Cooling	Heating
Capacity min-nom-max	kW	0,9-2,65-3,2	0,9-3,6-5,0	0,9-3,5-3,8	0,9-4,2-5,8
	BTU/h	3.100-9.000-10.900	3.100-12.300-17.100	3.100-11.900-13.000	3.100-14.300-19.800
Power consumption min-nom-max	W	250-775-1150	250-995-1340	250-1090-1300	250-1165-1500
	A	1,3-3,9-5,9	1,2-4,8-6,5	1,2-5,2-6,2	1,2-5,5-7,1
Efficiency EER/COP	W/W	3,51	3,62	3,21	3,61
Energy class	-	A	A	A	A
Annual power consumption (cooling)	kWh	377,5	-	545	-
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50	
Internal Unit		SAP-KRV93EHE		SAP-KRV123EHE	
Maximum air flow	m ³ /h	480	530	500	530
Dehumidifying capacity	Litres/h	1,6	-	2,0	-
Sound pressure level	(Quiet/B/M/A) dB(A)	23/28/31/34	23/28/31/34	25/29/33/36	25/29/31/34
Sound power level	(A) dB(A)	55	55	57	55
Dimensions	(HxLxD) mm	285x825x204		285x825x204	
Net weight	kg	9		9	
External Unit		SAP-CRV93EHE		SAP-CRV123EHE	
Sound pressure level	(A) dB(A)	46	47	47	49
Sound power level	(A) dB(A)	62	63	63	65
Dimensions	(HxLxD) mm	548x720x265		548x720x265	
Net weight	kg	34		35	
Installation Data		model 93		model 123	
Refrigerant pipe diameter discharge/suction	mm(in)	6,35 (1/4)/9,52 (3/8)		6,35 (1/4)/9,52 (3/8)	
Maximum pipe length	m	15		15	
Maximum elevation difference ext. unit - int. unit	m	7		7	
Maximum precharged pipe length	m	7,5		7,5	
Additional refrigerant (in excess of 7,5m)	g/m	15		15	

ROOM AIR CONDITIONERS: CLASSIC ON/OFF SYSTEMS

CLASSIC ON/OFF SYSTEMS (see page 17)									
		INVERTER HEAT PUMP (page 17)							
		SAP-KCR74EHE		SAP-KCR94EHE		SAP-KCR124EHE		SAP-KCR184EHE	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity min-nom-max	kW	2,09	2,37	2,51	2,85	3,32	3,80	5,15	5,7
	BTU/h	7.100	8.100	8.600	9.700	11.300	13.000	17.600	19.400
Power consumption min-nom-max	W	651	654	781	789	1.034	1.050	1.600	1.580
	A	3,0	3,0	3,6	3,6	4,7	4,8	7,1	7,0
Efficiency EER/COP	W/W	3,21	3,62	3,21	3,61	3,21	3,62	3,22	3,61
Energy class	-	A	A	A	A	A	A	A	A
Annual power consumption (cooling)	kWh	325,5	-	390,5	-	517,0	-	800	-
Internal Unit		SAP-KR74EHEA		SAP-KR94EHEA		SAP-KR124EHEA		SAP-KR184EHEA	
Maximum air flow	m³/h	420	440	470	490	490	520	890	890
Dehumidifying capacity	Litres/h	1,25	-	1,75	-	1,9	-	2,3	-
Sound pressure level	(Quiet/B/M/A) dB(A)	28/30/32/36	27/29/31/35	28/30/33/38	27/29/32/37	28/30/34/41	27/29/33/40	32/35/39/42	32/34/38/4
Sound power level	(A) dB(A)	49	48	51	50	54	53	55	54
Dimensions	(HxLxD) mm	285x825x202		285x825x202		285x825x202		298x1.065x231	
Net weight	kg	10		10		10		12	
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50		230, 1+N, 50		230, 1+N, 50	
External Unit		SAP-CR74EHEA		SAP-CR94EHEA		SAP-CR124EHEA		SAP-CR184EHEA	
Sound pressure level	(A) dB(A)	47	48	48	49	50	50	55	56
Sound power level	(A) dB(A)	59	60	60	61	62	62	67	68
Dimensions	(HxLxD) mm	548x720x265		548x720x265		565x790x285		670x880x285	
Net weight	kg	29		35		37		48	
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50		230, 1+N, 50		230, 1+N, 50	
Installation Data		model 74		model 94		model 124		model 184	
Refrigerant pipe diameter discharge/suction	mm(in)	6,35 (1/4)/9,52 (3/8)		6,35 (1/4)/9,52 (3/8)		6,35 (1/4)/9,52 (3/8)		6,35 (1/4)/12,7 (1/2)	
Maximum pipe length	m	15		15		15		15	
Maximum elevation difference ext. unit - int. unit	m	7		7		7		7	
Maximum precharged pipe length	m	7,5		7,5		7,5		7,5	
Additional refrigerant (in excess of 7,5m)	g/m	15		15		15		15	



Product Specifications



OTHER PRODUCTS: MULTI DC INVERTER AIR CONDITIONERS cont

MULTI SPLIT DC INVERTER EXTERNAL UNIT (see page 18)					
		SAP-CMRV1424EHE		SAP-CMRV1934EHE	
Performance		Cooling	Heating	Cooling	Heating
Capacity min-nom-max	kW	2,0-4,0-5,0	2,2-4,5-5,5	2,9-5,6-6,8	3,4-7,3-8,4
	BTU/h	6.800-13.600-17.000	7.500-15.300-18.700	9.900-19.100-23.200	11.600-24.900-28.600
Nominal power consumption	W	925	925	1550	1735
	A	4,1	4,1	6,88	7,7
Efficiency EER/COP		4,32	4,86	3,61	4,21
Energy class	A	A	A	A	-
Annual power consumption (cooling)	kWh	462,5	-	775	-
External Unit					
Maximum number of internal units		2		3	
Sound pressure level	(A) dB(A)	47	48	50	52
Sound power level	(A) dB(A)	62	63	62	64
Dimensions	(HxLxD) mm	569x700x285		740x900x320	
Net weight	kg	42		65	
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50	
Installation data					
		model 1424		model 1934	
Pipe diameter - suction/discharge	mm (in)	2x 6,4(1/4)/9,5(3/8)		3x 6,4(1/4)/9,5(3/8)	
Maximum total pipe length	m	30		45	
Maximum pipe length per unit	m	20		25	
Maximum elevation difference external unit-Internal unit	m	15		15	
Precharged pipe length	m	up to the maximum tube length			

OTHER PRODUCTS: MULTI DC INVERTER AIR CONDITIONERS cont

MULTI SPLIT DC INVERTER INTERNAL (see page 18)							
		SAP-KMRV74EHE		SAP-KMRV94EHE		SAP-KMRV124EHE	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2,2	2,5	2,65	3,6	3,5	4,2
	BTU/h	7.5	8.5	9	12.3	11.9	14.3
Maximum air flow	m ³ /h	440	460	440	480	480	500
Dehumidification	litres/h	1,3	-	1,6	-	2,0	-
Sound pressure level	(Quiet/B/M/A) dB-A	23/27/30/33	23/27/30/33	23/28/31/34	23/28/31/34	25/29/33/36	25/29/31/34
Sound power level	(A) dB-A	54	54	55	55	57	55
Refrigerant pipe diameter discharge/suction	mm	6,4(1/4)/9,5	(3/8)	6,4(1/4)/9,5(3/8)		6,4(1/4)/9,5(3/8)	
Dimensions	(HxLxD) mm	285x825x202		285x825x202		285x825x202	
Net weight	kg	10		10		10	
Power supply	V,Ph,Hz	230, 1+N, 50		230, 1+N, 50		230, 1+N, 50	

OTHER PRODUCTS: MULTI DC INVERTER AIR CONDITIONERS cont

COMBINATIONS																	
External Unit models		Cooling								Heating							
		Room A		Room B		Room C		Total Power				Room A		Room B		Room C	
		Nominal Power		Nominal Power		Nominal Power		Power Min-Nom-Max				Nominal Power		Nominal Power		Nominal Power	
		kW	BTU/h	kW	BTU/h	kW	BTU/h	kW	BTU/h	kW	BTU/h	kW	BTU/h	kW	BTU/h	kW	BTU/h
SAP-CMRV1424EHE	1 Room	74*	2,2	7.5	-	-	-	-	1,2-2,2-2,6	4.100-7.500-8.900	2,5	8.5	-	-	-	-	-
		94*	2,65	9	-	-	-	-	1,2-2,65-3,2	4.100-9.000-10.900	3,6	12.3	-	-	-	-	-
		124*	3,5	11.9	-	-	-	-	1,3-3,5-3,6	4.400-11.900-12.300	4,2	14.3	-	-	-	-	-
	2 Rooms	74 + 74	1,8	6.1	1,8	6.1	-	-	2,0-3,6-4,5	6.800-12.200-15.300	2,5	8.5	2,5	8.5	-	-	-
		74 + 94	1,68	5.7	2,02	6.9	-	-	2,0-3,7-4,8	6.800-12.600-16.400	2,5	8.5	3,6	12.3	-	-	-
		74 + 124	1,51	5.1	2,39	8.1	-	-	2,0-3,9-4,9	6.800-13.200-16.700	2,4	8.2	3,9	13.3	-	-	-
SAP-CMRV1934EHE	1 Room	74*	2,2	7.5	-	-	-	-	1,4-2,2-2,6	4.800-7.500-8.900	2,5	8.5	-	-	-	-	-
		94*	2,65	9	-	-	-	-	1,4-2,65-3,2	4.800-9.000-10.900	3,6	12.3	-	-	-	-	-
124*		3,5	11.9	-	-	-	-	-	5.100-11.900-12.300	4,2	14.3	-	-	-	-	-	
SAP-CMRV1934EHE	2 Rooms	94 + 94	2,5	8.5	2,5	8.5	-	-	2,0-5,0-6,3	6.800-17.000-21.500	3,2	10.9	3,2	10.9	-	-	-
		94 + 124	2,24	7.6	2,96	10.1	-	-	2,1-5,2-6,8	7.200-17.700-23.200	3,07	10.5	3,58	12.2	-	-	-
	124 + 124	2,7	9.2	2,7	9.2	-	-	2,0-5,4-6,8	6.800-18.400-23.200	3,45	11.8	3,45	11.8	-	-	-	
	3 Rooms	74 + 74 + 74	1,77	6	1,77	6	1,77	6	2,5-5,3-6,8	8.500-18.000-23.200	2,18	7.4	2,18	7.4	2,18	7.4	2,18
		74 + 74 + 94	1,69	5.8	1,69	5.8	2,03	6.9	2,9-5,4-6,8	9.900-18.500-23.200	2,02	6.9	2,02	6.9	2,91	9.9	2,91
74 + 94 + 94		1,63	5.6	1,96	6.7	1,96	6.7	2,9-5,55-6,8	9.900-18.900-23.200	1,88	6.4	2,71	9.2	2,71	9.2	2,71	
SAP-CMRV1934EHE	3 Rooms	74 + 74 + 124	1,56	5.3	1,56	5.3	2,48	8.5	2,9-5,6-6,8	9.900-19.100-23.200	1,94	6.6	1,94	6.6	3,26	11.1	3,26
		74 + 94 + 124	1,48	5	1,78	6.1	2,35	8	2,9-5,6-6,8	9.900-19.100-23.200	1,77	6	2,55	8.7	2,98	10.2	2,98

Note: A minimum of two internal units must be connected to a Multi external unit
 *Performance refers to an internal unit



Product Specifications



OTHER PRODUCTS: VIRUS WASHER

VIRUS WASHER (see page 21)			
WITH ELECTROLYTIC TECHNOLOGY ABC-VW24			
Advised surface area		m ²	40
Power consumption (B/M/A)		W	8-16-57
Fan speed			3
Air flowrate (B/M/A)		m ³ /h	72-168-306
Sound pressure level (B/M/A)		dB(A)	18-37-52
Particle filter			HEPA disinfectant
Odour filter			Nanotech carbon
Antibacterial treatment			Catechin
Timer			1/2/8 hours
Dimensions (HxLxD)		mm	600x340x180
Net weight		kg	7,1
Power supply		V,Ph,Hz	230, 1+N, 50

OTHER PRODUCTS: AIR PURIFIER IONISER

AIR PURIFIER IONISER (see page 25)			
Advised surface area		m ²	25
Power consumption min-max		W	19-56
Fan speed			3
Air flowrate (B/M/A)		m ³ /h	36/110/180
Sound pressure level (B/M/A)		dB-A	14/25/33
Particle filter			HEPA disinfectant
Odour filter			Active charcoal
Antibacterial treatment			-
Timer			1 hour/2 hours/8 hours
Dimensions (HxLxD)		mm	430x405x132
Net weight		kg	4,1
Power supply		V,Ph,Hz	230, 1+N, 50

	PERFORMANCE VARIATIONS											
	Cooling				Dehumidifying				Heating			
	External Dry BulbTemperature		Internal Dry Bulb Temperature		External Dry BulbTemperature		Internal Dry Bulb Temperature		External Wet BulbTemperature		Internal Dry Bulb Temperature	
	Min.	Max	Min.	Max	Min.	Max	Min.	Max	Min.	Max	Min.	Max
Shiki Sai Kan	-15°C	+43°C	+19°C	+32°C	-15°C	+43°C	+15°C	+32°C	-15°C	+18°C	+16°C	+27°C
Led-clean inverter	+19°C	+43°C	+19°C	+32°C	+19°C	+43°C	+15°C	+32°C	-9°C	+18°C	+16°C	+27°C
Ion Inverter	+19°C	+43°C	+19°C	+32°C	+19°C	+43°C	+15°C	+32°C	-15°C	+18°C	+16°C	+27°C
Classic On/Off	+19°C	+43°C	+19°C	+32°C	+19°C	+43°C	+15°C	+32°C	-9°C	+18°C	+16°C	+27°C
Multi DC Inverter	+19°C	+43°C	+19°C	+32°C	+19°C	+43°C	+15°C	+32°C	-15°C	+18°C	+16°C	+27°C
Portable Power-8	-	-	+15°C	+35°C	-	-	+10°C	+35°C	-	-	-	-

The data in this catalogue are indicative. SANYO reserves the right to modify the models at any point in time for technical or commercial reasons. The performance of SANYO Air Conditioners is based on the following conditions: Cooling: Indoor temperature 27°C DB (Dry bulb)/19°C WB (Wet bulb), Outdoor temperature 35°C DB/24°C WB. Heating: Indoor temperature 20°C DB, Outdoor temperature 7°C DB/6°C WB. Functional limits may vary as follows, depending on the model.







SANYO



Indicates conformation
with EC Directives



ISO 9001: 2001
Certificate Number: JQ116B



ISO 14001: 2001
Certificate Number: ECOOJ0303-33



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Rating Conditions

The cooling and heating capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB, Outdoor temperature 35°C DB/24° C WB.

Heating: Indoor temperature 20°C DB, Outdoor Temperature 7°C DB 6°C WB.