

Room Air Conditioners

HITACHI
Inspire the Next



Contents



Air conditioning systems from Hitachi: quality, efficiency and durability

Freely translated Hitachi means "A man sees the sunrise as a sign of the start of a better future". Namihei Odaira founded the Japanese company HITACHI Ltd. in Tokyo in 1910. His vision was to develop products, which would provide people with a more comfortable and productive environment. With over 100 years of company history we look with pride on our product range of over 20,000 products, which impress in all areas of life with high quality and a long service life. The corporate statement "Inspire the Next" shows our forward-looking perspective, which enables us to recognise and satisfy people's requirements at an early stage.

An important factor in the development and production of our various devices takes centre stage in the process: responsible handling of resources and the associated environmental protection.

The company is one of the top-five most environmentally conscious companies in Japan and, naturally, this approach is conveyed to all 934 subsidiaries and to the approx. 359,000 employees worldwide. Therefore, planners and users can be sure that the price-performance ratio is right and that environmental protection is a priority. See for yourself!

We, the Air Conditioning & Refrigerating Business Group (ARG for short), are convinced of the outstanding performance and quality of our products. They represent a long-term investment. We offer air conditioning systems for every need. Our products range from industrial air conditioning systems, air conditioning for offices or diverse commercial operations, to room air conditioners and heat pumps for the private sector to water chillers and compressors. We have these made at our own factory in Barcelona. This lowers production costs, reduces delivery times and facilitates optimum, top-class service. In addition to our top-quality products, the service idea is a priority. This means consultation just as much as installation and later servicing. We achieve this through cooperation with well-trained authorised specialists, who are closely linked to us thanks to a strong bond of trust.

Today, saving on energy costs is a decisive criterion when choosing an air conditioning unit. We have recognised our clients' needs in relation to the climate change debate. Our products stand out today thanks to their high energy efficiency grades.

All our devices work with the DC Inverter technology developed by Hitachi. The system can quickly achieve the desired room temperature setting thanks to the inverter's variable speed. This means up to 30 percent of the energy consumption can be saved without sacrificing on comfort. At the same time, performance is improved by a good 10 percent thanks to a DC-operated motor. This is kind to the environment and your wallet.

Be inspired and impressed by our products. You will find extensive information on our devices on the following pages. Discover us!

Company Profile	2
Contents	3
Features and Benefits	4

Single Split 10	
- Premium Series	
SX Premium Wall-Mounted	12
- Cut Out Wall and Floor-Mounted	13
- Standard Series	
Wall-Mounted Summit Frame Flat	14
- Standard Series Wall-Mounted Summit	15
- Fixspeed Series Big Flow Series	16
- Fixspeed Series Big Flow Series (only cooling)	17
- NX2 Floor-Mounted	18
- 4-Way Euro-Grid Cassette	19
- In the Ceiling	20
- Duct Inverter	21

Multi-Split	22
- Cut Out Wall-Mounted	24
- Cut Out Floor-Mounted	25
- Wall-Mounted Units Frame Flat	26
- 4-Way Euro-Grid Cassette	27
- In the Ceiling	28
- NX2 Floor-Mounted	29
- Outdoor Units	30
- Accessories	31

Features and Benefits

Design and efficiency

We offer our customers a broad range of different unit designs, which means we can always meet your needs. We are particularly proud of our Cut Out and SX Premium design units, which have high efficiency values as well as a beautiful design. So you can create a pleasant indoor climate combined with beautiful design.



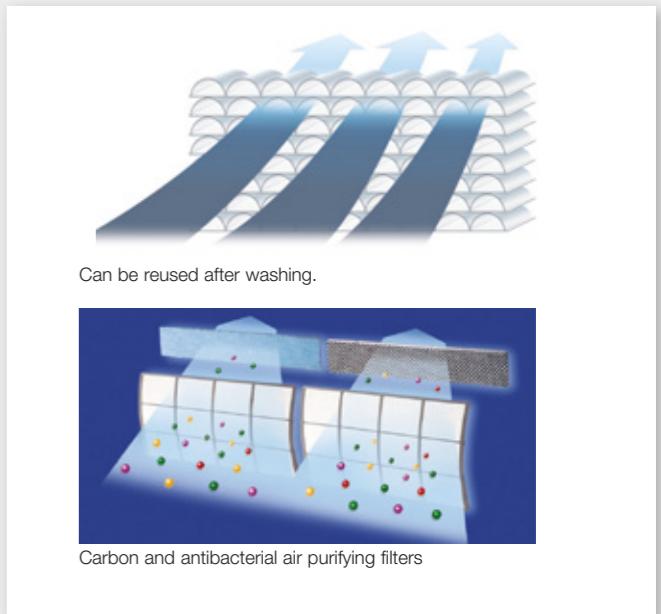
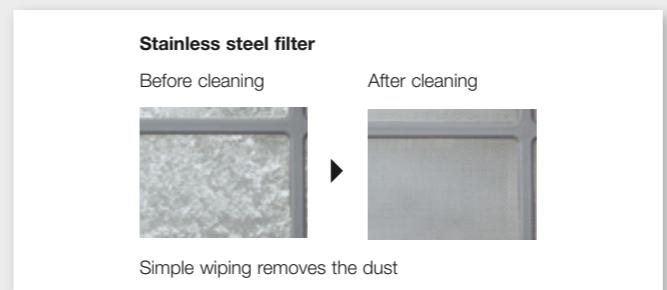
User-friendly remote control

All units come with user-friendly remote control with 24hr timer as standard. All commands are shown on the LCD display. Functions required frequently (sleep mode timer, fan speeds and louver control) can be accessed easily at a touch of a button. You can store all the last operational settings for the units with a memory function in the remote control. There is no need to reset.



High air quality

Either washable carbon and antibacterial air purifying filters are included in all of Hitachi's room air conditioning products. This ensures that the micro dust, pollen particles and odours that can collect on filters can be easily removed. The filters can be washed and reused many times. Our stainless steel coated machine filters, which are used in our Cut Out and SX Premium design units and our new floor-mounted NX2, are easy to clean, which means they last much longer than conventional acrylic filters.



Nano-titanium filters

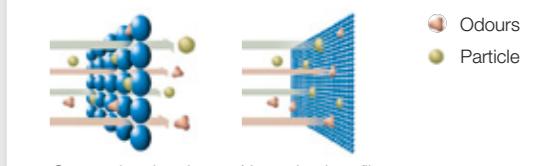
We have introduced the cutting edge Hitachi nano-titanium filters in some of our models, which improve the functions of odour elimination, particle removal and antibacterial measures decisively. Titanium oxide has been used as a photocatalyst for many years but Hitachi has now enhanced it by reducing its size to a nanometer – over 1,000 times smaller than ordinary bacterial agent.

This ultrafine catalyst can, therefore, catch smaller microbes or bacteria which may escape from other filters leading to higher air quality circulating around the room.

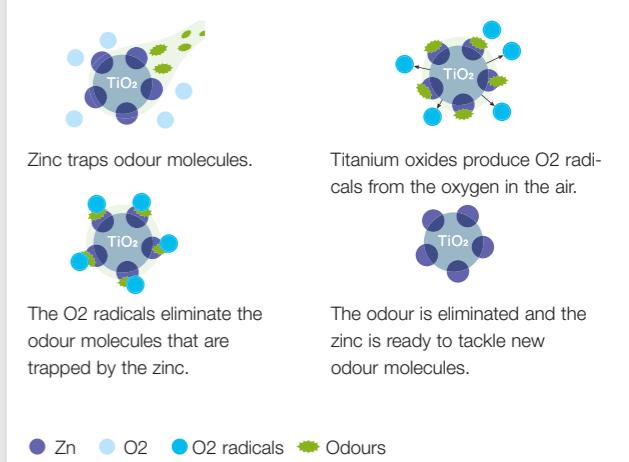
The comparison table easily shows the size of the nano-titanium catalyst in relation to other ordinary antibacterial agents and also details the size of some common bacteria in relation to the size of the filter and showing what does get through.

The nano-titanium does not deteriorate or run out, because particles and dead fungi do not accumulate on the surface, meaning it can be used semi-permanently.

Heavily concentrated nano-titanium particles prevent impurities and odours from passing through and eliminate these reliably.



The catalytic principle of nano-titanium particles



Features and Benefits

DC Inverter operation

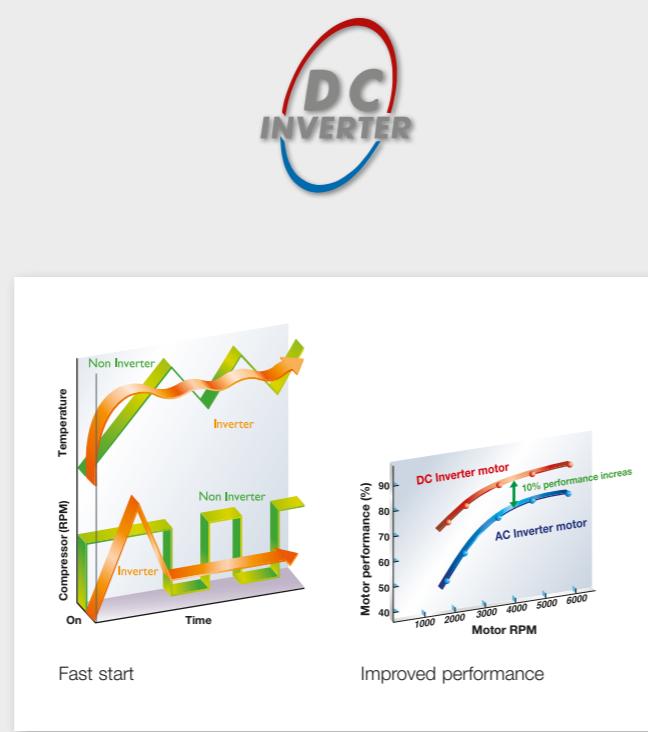
As you would expect from a leading company like Hitachi, we are always at the cutting-edge when it comes to technical development and progress. As pioneers of air conditioning systems operated with DC Inverters, our products offer the advantage of compressors and fans wholly operated by DC Inverters. The performance of the inverter and the system is increased by installing a DC drive.

Rapid start-up

The variable speed compressor (inverter) enables the system to rapidly reach the desired room temperature setting. Once the desired room temperature has been achieved the compressor rotation speed is reduced, saving up to 30% in energy usage (when compared to conventional systems) without compromising comfort levels.

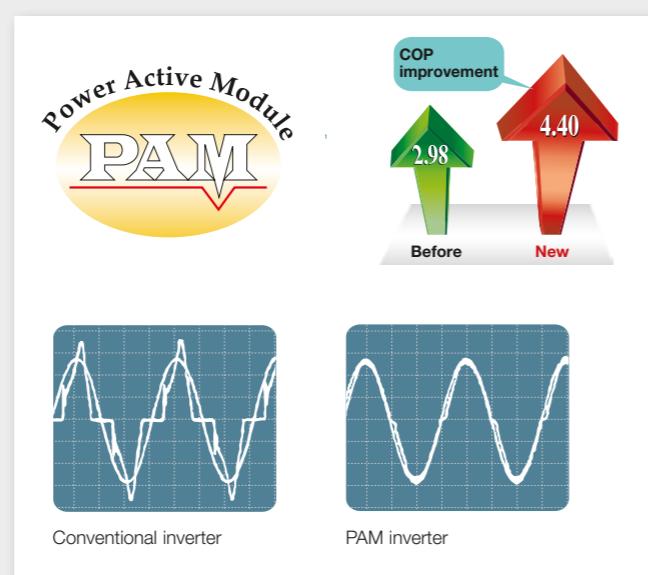
Improved performance

Installation of a DC-driven motor achieves better performance than with standard systems that are driven by an AC motor. The increase in performance is up to 10 %.



PAM – minimised loss of performance

Hitachi's PAM (Power Active Module) control system mirrors the current pulse waveform to avoid distortion and therefore achieve almost 100% power factor to enhance power efficiency. This cutting-edge device is employed in all Hitachi Mono/MultiZone products for your comfort and energy saving for our environment. It ensures the efficient use of input power and minimises loss to less than 1%.



Compressor technology

Digital DC Scroll Compressor (MultiZone)

The motor uses digital control to maximise PAM control performance.

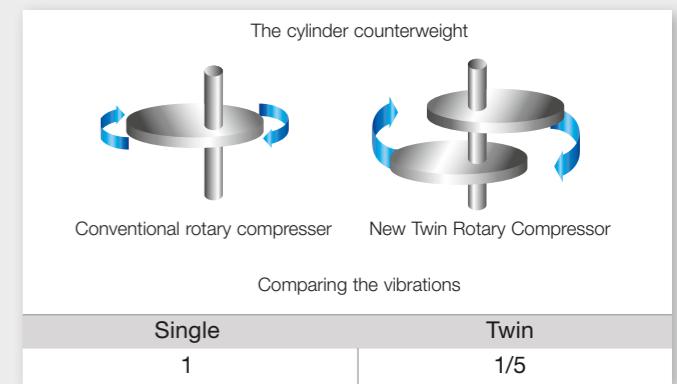
- Loss during high-speed revolution is reduced thanks to digital control of the motor.
- Shaft runout during high-speed revolution is lessened by three balancers mounted on the crank shaft.
- Efficient operation with drastically reduced refrigerant leakage is ensured by the automatic compression system, in which the tip of the slewing scroll is kept in absolute contact with the fixed scroll, in addition to special processing of the scroll surface.



DC Twin Rotary Compressor (MonoZone and MultiZone)

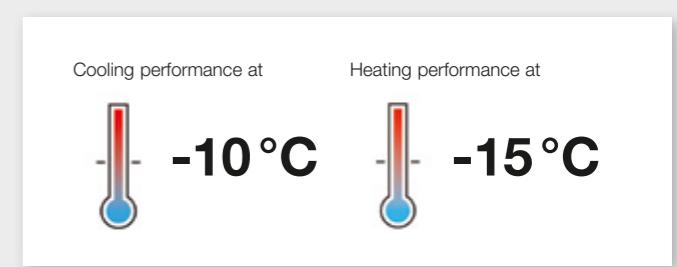
Today, all MonoZone and two MultiZone room air conditioning units have Hitachi's new twin rotary compressor, which has even less vibration and even higher performance efficiency than conventional rotary compressors.

- Two rotating cylinders ensure well balanced rotation unlike the conventional single-rotary type, thus, greatly reducing any vibration noise.
- The compressor's operation is magnificently improved by the independent operation of the cylinders leading to greater efficiency and lower vibration.



High-performance cooling at -10 °C and heating at -15 °C

The cooling and heating performance is even more impressive than previously. The units have been designed for cooling operation under low temperatures down to -10°C. At outdoor temperatures as low as -15°C, the PAM controlled range of inverter split systems continue to provide high capacity heating performance.



Features and Benefits

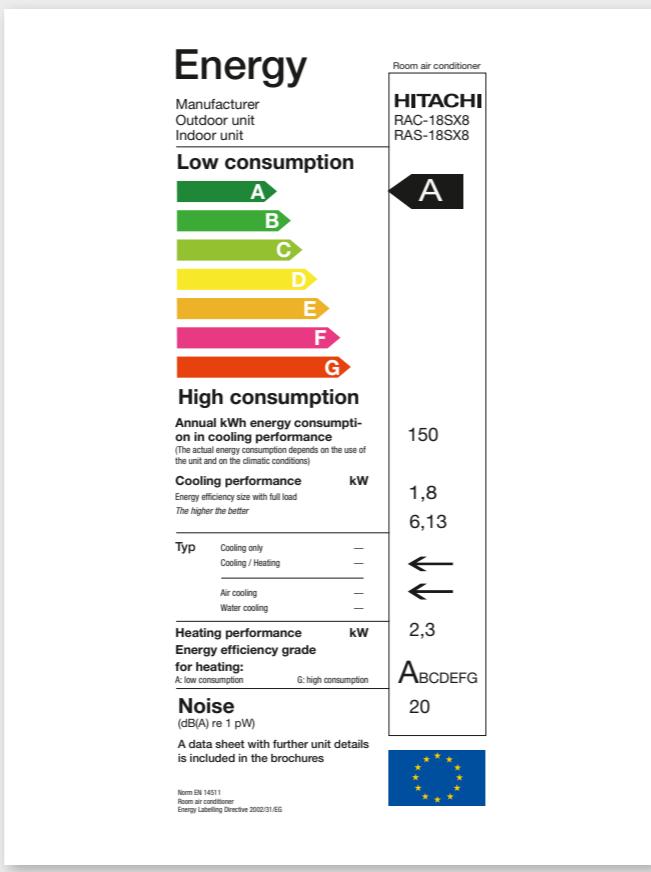
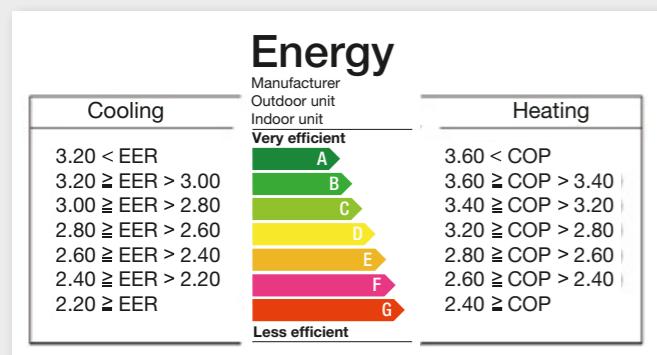
R410A Refrigerant

Hitachi is using the new R410A refrigerant in all of its room air conditioning products to ensure its continual environmentally friendly approach as well as the on-going development of techniques for saving energy and reducing power consumption.



High energy efficiency grade

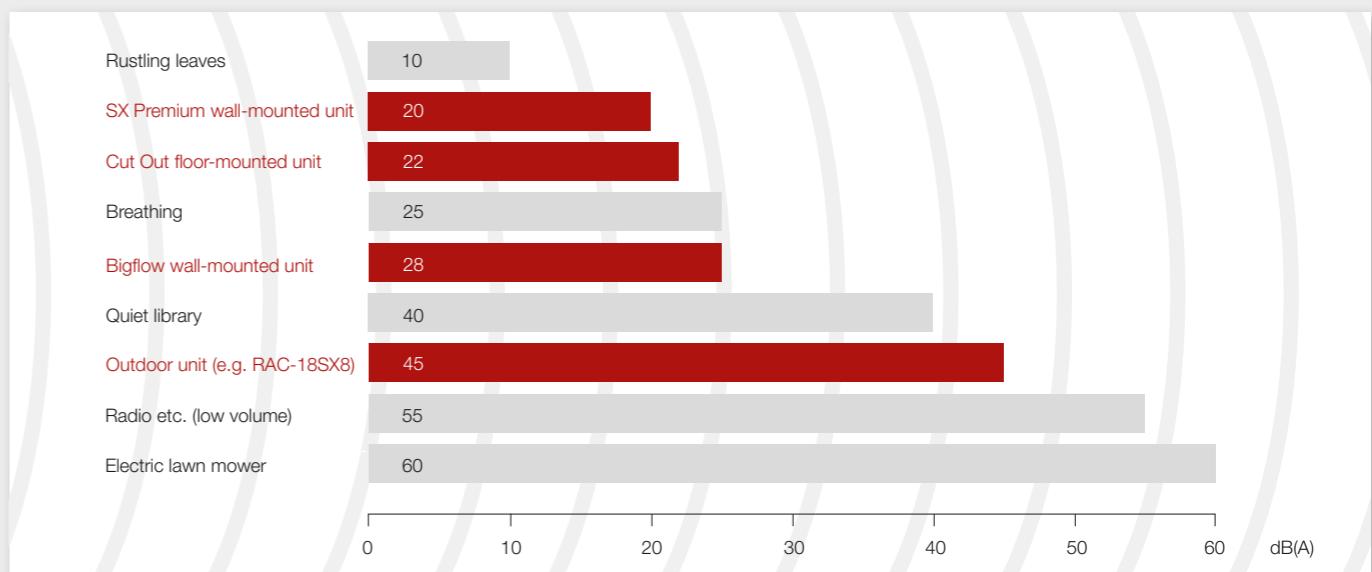
Hitachi conforms to the 2002/31/EC Directive - 92/75/EEC "Energy labelling Directive (ELD)", which is applicable from June 2004 on all air conditioning products up to 12Kw cooling capacity. The DC inverter PAM technology helps us to achieve the 'A' class, the highest level of energy efficiency, which is clearly indicated on the standard labelling system.



Enjoy the silence

In addition to ecological functioning, our room air conditioners stand out due to their extremely low noise levels. In cooling performance we even achieve a minimum run noise of 20 dB(A). Even breathing is louder than a working air conditioning unit. Thus, Hitachi room air conditioners are ideal for bedrooms. The four fan speeds on many of

our room air conditioners combine whisper-quiet operation with high comfort.



Single Split



Single Split room air conditioners

Hitachi's new range of Room Air Conditioning systems has developed significantly in recent years following a great deal of investment in research and development and testing facilities at various Hitachi factories and laboratories around the world.

Hitachi has continuously developed sophisticated, energy-saving air conditioning systems, which reduce CO₂ emissions and help to protect the global environment.



The single split room air conditioners each consist of an associated indoor and outdoor unit. This means you will always find an efficient solution for your personal comfort climate.

Air conditioning systems from Hitachi have a wide range of important features, which have been developed with genuine advantages for users.

- PAM-control with DC Inverter (except Big Flow series)
- High performance with low energy consumption
- Low ambient working range -10°C for cooling, -15 °C for heating (except Big Flow-Series)
- Remarkably low noise level
- Good heating performance with low ambient temperatures
- Highest air quality
- Simple installation and servicing
- Elegant design

- Extremely efficient
- Stylish design
- Antibacterial
- Automatic filter cleaning
- Steam ionizer



RAS-18~35SX8



SX Premium Wall-Mounted



The SX Premium includes innovations that improve the room air even further, such as a steam ionizer. The SX Premium also has above-average energy-saving potential. Combined with a compact, perfectly formed, award-winning design, this means the SX Premium facilitates comfort on the highest level.

- Highest COP on the market (RAS-18SX8) at 6.13
- Plasma and stainless steel filter
- Adjusting the air humidity
- Many features for cleaning the room air

Model calculation: RAS-18SX and RAC-18SX8

Set indoor/outdoor unit	Cooling	Heating
Nominal power consumption	0.3	0.375
Working hours per year *	500	720
Electricity tariff in € **	0.21	0.21
Cost per year in €	31.50	56.70

* based on the energy label

** assumed/average electricity tariff

RAS-25~50WX8
Also available in brownRAF-25~50FX8
Also available in brown

- Stylish design
- High efficiency
- Cooling up to -10 °C

Cut Out Wall & Floor-Mounted



The Cut Out series offers an array of usage options. Whether wall or floor-mounted, all have typical Hitachi features, e.g. the environmentally-friendly R410A Refrigerant. The highly efficient DC Inverter technology ensures the highest performance and greater energy efficiency.

- Nano-titanium filters
- Stainless steel filter
- Self-cleaning function (wall-mounted unit)
- Detachable stand (floor-mounted unit)

Model calculation: RAS-25WX8 and RAC-25WX8

Set indoor/outdoor unit	Cooling	Heating
Nominal power consumption	0.58	0.79
Working hours per year *	500	720
Electricity tariff in € **	0.21	0.21
Cost per year in €	60.90	119.44

* based on the energy label

** assumed/average electricity tariff

Indoor unit	RAS-18SX8	RAS-25SX8	RAS-35SX8
Cooling capacity ¹ (control range)	kW	1.8 (0.5-3.0)	2.5 (0.5-3.4)
Heating capacity ² (control range)	kW	2.3 (0.6-4.8)	3.2 (0.6-5.8)
Efficiency EER/COP	W/W	6.0/6.13	5.38/5.47
Energy efficiency grade	A/A	A/A	A/A
Inner dimensions (h × w × d)	mm	295 × 798 × 233	295 × 798 × 233
Sound pressure level ³	Cooling	dB(A)	20-28-35-40
Super Low-Low-Medium-High ³	Heating	dB(A)	20-30-35-41

Outdoor unit	RAC-18SX8	RAC-25SX8	RAC-35SX8
Nominal power consumption (cooling/heating)	kW	0.300/0.375	0.465/0.585
Outer dimensions (h × w × d)	mm	570 × 750 × 288	570 × 750 × 288
Sound pressure level outside (cooling/heating) ³	dB(A)	45/45	45/45
Working range outdoor unit (max.)	°C	Cooling: +22 °C ~ +43 °C; Heating: -20 °C ~ +21 °C	46/46

Indoor unit	Wall-mounted units			Floor-mounted units		
	RAS-25WX8	RAS-35WX8	RAS-50WX8	RAF-25FX8	RAF-35FX8	RAF-50FX8
Cooling capacity ¹ (control range)	kW	2.5 (0.9-3.1)	3.5 (0.9-4.0)	5.0 (0.9-5.2)	2.5 (0.9-3.1)	3.5 (0.9-4.0)
Heating capacity ² (control range)	kW	3.4 (0.9-4.4)	4.2 (0.9-5.0)	6.3 (0.9-7.5)	3.4 (0.9-4.4)	4.5 (0.9-5.0)
Efficiency EER/COP	W/W	4.31/4.30	3.57/4.16	3.22/3.61	4.31/4.30	3.43/3.69
Energy efficiency grade	A/A	A/A	A/A	A/A	A/A	A/A
Inner dimensions (h × w × d)	mm	295 × 795 × 198	295 × 795 × 198	295 × 795 × 198	590 × 750 × 215	590 × 750 × 215
Sound pressure level ³	Cooling	dB(A)	20-26-32-38	22-29-35-41	25-31-39-47	20-26-31-38
Super Low-Low-Medium-High ³	Heating	dB(A)	20-27-33-39	22-30-35-41	25-31-39-48	20-26-31-38

Outdoor unit	RAC-25WX8	RAC-35WX8	RAC-50WX8	RAC-25FX8	RAC-35FX8	RAC-50FX8
Nominal power consumption (cooling/heating)	kW	0.580/0.790	0.980/1.010	1.555/1.745	0.580/0.790	1.020/1.220
Outer dimensions (h × w × d)	mm	548 × 750 × 288	548 × 750 × 288	600 × 792 × 299	548 × 750 × 288	548 × 750 × 288
Sound pressure level outside (cooling/heating) ³	dB(A)	45/46	46/47	50/52	45/47	46/48
Working range outdoor unit (max.)	°C	Cooling: -10 °C ~ +43 °C; Heating: -15 °C ~ +21 °C			Cooling: -10 °C ~ +43 °C; Heating: -15 °C ~ +21 °C	

Measuring conditions see page 31

Measuring conditions see page 31



- Flat panel design
- Outstanding price-performance ratio
- 4 fan speeds
- Cooling up to -10 °C



Indoor unit: RAS-18~50FH6/7



Summit Frame Flat Wall-Mounted



The Summit Frame Flat is particularly appealing thanks to its flat front and, thus, compact design.

- DC Inverter PAM control
- All models: class A (except 50s)
- Low noise (only 20 dB(A); sizes 18 and 25)
- Heating performance up to -15 °C ambient temperature
- Auto restart with last mode and auto changeover
- Washable carbon and antibacterial air purifying filter
- Wireless remote control switch with 24hr timer

High performance and the highest efficiency grade are features of the SUMMIT Split units that are fully operated by DC Inverter and PAM control. These offer heating and cooling capacities of 6.1 kW to 9.3 kW and have a Hitachi DC Scroll or DC Twin Rotary Compressor.

- Heating performance up to -15 °C ambient temperature
- Auto restart with last mode and auto changeover
- Washable carbon and antibacterial air purifying filter
- Wireless remote control switch with 24hr timer

Indoor unit	RAS-18FH6	RAS-25FH6	RAS-35FH6	RAS-50FH7
Cooling capacity ¹ (control range)	kW	2.0 (0.9~2.5)	2.5 (0.9~3.1)	3.5 (0.9~4.0)
Heating capacity ² (control range)	kW	2.5 (0.9~3.2)	3.4 (0.9~4.4)	4.2 (0.9~5.0)
Efficiency EER/COP	W/W	3.64/4.31	3.57/3.86	3.21/3.78
Energy efficiency grade		A/A	A/A	A/A
Inner dimensions (h × w × d)	mm	280 × 780 × 220	280 × 780 × 220	280 × 780 × 220
Sound pressure level ³	Cooling	dB(A)	20-26-32-35	20-26-32-38
Super Low-Low-Medium-High ³	Heating	dB(A)	23-27-33-36	23-27-33-39

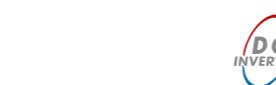
Outdoor unit	RAC-18YH6	RAC-25YH6	RAC-35YH6	RAC-50YH7
Nominal power consumption (cooling/heating)	kW	0.550/0.580	0.700/0.880	1.090/1.110
Outer dimensions (h × w × d)	mm	505 × 700 × 258	505 × 700 × 258	548 × 750 × 288
Sound pressure level outside (cooling/heating) ³	dB(A)	44/46	46/48	46/49
Working range outdoor unit (max.)	°C	Cooling: -10 °C ~ +43 °C; Heating: -15 °C ~ +21 °C		

Measuring conditions see page 31

Indoor unit	RAS-60YH7	RAS-70YH7	RAS-80YH5A
Cooling capacity ¹ (control range)	kW	6.0 (0.9~6.5)	7.0 (1.5~8.0)
Heating capacity ² (control range)	kW	6.8 (0.9~7.3)	8.0 (1.5~9.2)
Efficiency EER/COP	W/W	3.24/3.62	3.23/3.64
Energy efficiency grade		A/A	A/A
Inner dimensions (h × w × d)	mm	295 × 1,030 × 207	333 × 1,150 × 245
Sound pressure level ³	Cooling	dB(A)	30-33-42-48
Super Low-Low-Medium-High ³	Heating	dB(A)	30-33-42-47

Outdoor unit	RAC-60YH7	RAC-70YH7	RAC-80YH5
Nominal power consumption (cooling/heating)	kW	1.850/1.880	2.170/2.200
Outer dimensions (h × w × d)	mm	650 × 850 × 298	800 × 850 × 298
Sound pressure level outside (cooling/heating) ³	dB(A)	50/53	52/54
Working range outdoor unit (max.)	°C	Cooling: -10 °C ~ +43 °C; Heating: -15 °C ~ +21 °C	

Measuring conditions see page 31

Indoor units: RAS-60~70YH7
RAS-80YH5A

- High performance
- Cooling up to -10 °C

- Simple design
- Compact



RAS-10~14GH5



RAS-14~18G5



- Simple design
- Compact

Big Flow Series



Big Flow Series (cooling only)



The Hitachi R410A Mono-Split System offers a cost-effective and powerful solution for air conditioning in one zone. Thanks to its compact design, reliability and top performance capacity, this is the right model series for many different applications.

- Energy grade A COP (sizes 10/14)
- Low noise (only 24 dB(A) in sleep mode; size 10)
- Heating performance up to -10 °C ambient temperature
- Washable carbon and antibacterial air purifying filter

The "Big Flow Series cooling only" is the right choice if you just want cooling in your living area. The flat design will fit inobtrusively into your living environment.

- Flat design
- Auto restart with last mode and auto changeover
- Wireless remote control switch with 24hr timer
- Washable carbon and antibacterial air purifying filter

Indoor unit	RAS-10GH5	RAS-14GH5	RAS-18GH5
Cooling capacity ¹	kW	2.5	3.5
Heating capacity ²	kW	2.8	4.0
Efficiency EER/COP	W/W	3.21 / 3.64	3.21 / 3.64
Energy efficiency grade		A / A	A / A
Inner dimensions (h × w × d)	mm	280 × 780 × 221	280 × 780 × 221
Sound pressure level ³	Cooling dB(A)	28-35-38 (24)	31-36-41 (27)
Super Low-Low-Medium-High ³	Heating dB(A)	31-34-39 (31)	34-37-42 (34)

Indoor unit	RAS-10G5	RAS-14G5	RAS-18G5
Cooling capacity ¹ (control range)	kW	2.9	3.7
Efficiency EER/COP	W/W	3.22	3.01
Energy efficiency grade		A	B
Inner dimensions (h × w × d)	mm	280 × 780 × 220	280 × 780 × 220
Sound pressure level ⁴	dB(A)	31-36-45 (25)	37-43-47 (29)
Super Low-Low-Medium-High ⁴			33-42-48 (30)

Indoor unit	RAS-10G5	RAS-14G5	RAS-18G5
Nominal power consumption (cooling/heating)	kW	0.900 / 0.770	1.090 / 1.000
Outer dimensions (h × w × d)	mm	505 × 700 × 258	548 × 750 × 288
Sound pressure level outside (cooling/heating) ⁵	dB(A)	50	50
Working range outdoor unit (max.)	°C	Cooling: +21 °C ~ +43°C (with optional fan speed controller -15 °C); heating: -10 °C ~ +21 °C	

Measuring conditions see page 31

Measuring conditions see page 31



- Top air outlet
- Stainless steel filter
- No wall mounting
- Cooling up to -10 °C
- Curved design



RAF-25~50NX2



RAI-25~50NH5A (mit Blende RAI-ECPM)



- Euro-grid
- Condensation pump
- 4 fan speeds
- Cooling up to -10 °C

NX2 Floor-Mounted **NEW**



The new floor-mounted units, which have a smooth design, can be installed in a variety of places. For example, they can replace radiators in heating recesses.

- Low noise (only 20 dB(A) in sleep mode)
- With wireless remote control switch (optional: LCD remote control switch with weekly timer; simple remote control switch)
- Stainless steel pre-filter is standard
- Heating performance up to -15 °C ambient temperature
- Auto restart with last mode and auto changeover

4-Way Cassette



The 4-way cassette unit fits completely into a suspended ceiling leaving only its cover visible. The unit enables individual air conditioning for one zone thanks to its four ventilation ducts.

- With wireless remote control switch (optional: LCD remote control switch with weekly timer; simple remote control switch)
- Heating performance possible up to -10 °C ambient temperature
- Auto restart with last mode and auto changeover
- Built-in drain pump

Indoor unit	RAF-25NX2	RAF-35NX2	RAF-50NX2		
Cooling capacity ¹ (control range)	kW	2.5 (0.9~3.1)	3.5 (0.9~4.0)	5.0 (1.9~5.2)	
Heating capacity ² (control range)	kW	3.4 (0.9~4.4)	4.2 (0.9~5.0)	6.0 (2.2~7.3)	
Efficiency EER/COP	W/W	3,57 / 3,86	3,21 / 3,78	3,21 / 3,61	
Energy efficiency grade		A / A	A / A	A / A	
Inner dimensions (h × w × d)	mm	600 × 760 × 235	600 × 760 × 235	600 × 760 × 235	
Sound pressure level ⁴	Cooling	dB(A)	20-26-32-38	24-27-32-40	26-29-37-44
Super Low-Low-Medium-High ⁴	Heating	dB(A)	20-26-32-38	23-26-32-39	25-29-37-44
Outdoor unit	RAC-25NX2	RAC-35NX2	RAC-50NX2		
Nominal power consumption (cooling/heating)	kW	0.700 / 0.880	1.090 / 1.110	1.560 / 1.660	
Outer dimensions (h × w × d)	mm	505 × 700 × 258	548 × 750 × 288	600 × 792 × 299	
Sound pressure level outside (cooling/heating) ³	dB(A)	46 / 48	47 / 49	52 / 52	
Working range outdoor unit (max.)	°C	Cooling: -10°C ~ +43°C; Heating: -15°C ~ +21°C			

Measuring conditions see page 31

Indoor unit	RAI-25NH5A	RAI-35NH5A	RAI-50NH5A	
Panel	RAI-ECPM	RAI-ECPM	RAI-ECPM	
Cooling capacity ¹ (control range)	kW	2.5 (0.9~3.0)	3.5 (0.9~4.0)	5.0 (0.9~5.2)
Heating capacity ² (control range)	kW	3.5 (0.9~5.0)	4.8 (0.9~6.6)	6.5 (0.9~8.1)
Efficiency EER/COP	W/W	3.60 / 3.72	3.18 / 3.53	2.51 / 3.01
Energy efficiency grade		A / A	B / B	E / D
Inner dimensions (h × w × d)	mm	285 × 580 × 580	285 × 580 × 580	285 × 580 × 580
Sound pressure level ⁴	Cooling	dB(A)	25-29-32-35	26-29-34-39
Super Low-Low-Medium-High ⁴	Heating	dB(A)	27-30-33-36	29-32-36-40
Outdoor unit	RAC-25NH5	RAC-35NH5	RAC-50NH5	
Nominal power consumption (cooling/heating)	kW	0.695 / 0.940	1.100 / 1.360	1.990 / 2.160
Outer dimensions (h × w × d)	mm	570 × 750 × 280	570 × 750 × 280	650 × 850 × 298
Sound pressure level outside (cooling/heating) ³	dB(A)	46 / 46	47 / 49	50 / 52
Working range outdoor unit (max.)	°C	Cooling: -10°C ~ +43°C; Heating: -15°C ~ +21°C		

Measuring conditions see page 31

- 4 fan speeds
- Simplified remote control switch
- Cooling up to -10 °C



RAD-25~50NH7A



- Condensation pump
- 4 fan speeds
- Selectable air intake direction
- Remote control switch
- Cooling up to -10 °C



Indoor unit: RAD-50~70DH7A

In the Ceiling



The ceiling unit with its variable air intake gives you discreet air conditioning for your living and sleeping areas.

- Compact design
- With simple remote control switch (optional: LCD remote control switch with weekly timer, wireless remote control switch)
- Heating performance up to -10 °C ambient temperature
- Auto restart with last mode and auto changeover
- Filter
- Built-in drain pump

Duct Inverter



The Duct Inverter also gives you discreet air conditioning for your living and sleeping areas. The maximum height of 270 mm (7.0 kW-unit) facilitates easy installation. The higher pressure and the resulting more powerful units offer an upgrade for your air conditioning needs.

- Low noise (only 28 dB(A) in sleep mode)
- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)
- Higher static pressure
- Built-in drain pump
- Air filter included as standard
- Heating performance possible up to -15 °C ambient temperature
- Auto restart with last mode and auto changeover

Indoor unit	RAD-25NH7A	RAD-35NH7A	RAD-50NH7A
Cooling capacity ¹ (control range)	kW	2.5 (0.9~3.0)	3.5 (0.9~4.0)
Heating capacity ² (control range)	kW	3.5 (0.9~5.0)	4.8 (0.9~6.6)
Efficiency EER/COP	W/W	3.60 / 3.61	2.82 / 2.82
Energy efficiency grade		A / A	C / D
Inner dimensions (h × w × d)	mm	235 × 750 × 400	235 × 750 × 400
Sound pressure level ⁴	Cooling	dB(A)	29-31-34-36
Super Low-Low-Medium-High ⁴	Heating	dB(A)	27-30-33-37

Outdoor unit	RAC-25NH5	RAC-35NH5	RAC-50NH5
Nominal power consumption (cooling/heating)	kW	0.695 / 0.970	1.240 / 1.700
Outer dimensions (h × w × d)	mm	570 × 750 × 280	570 × 750 × 280
Sound pressure level outside (cooling/heating) ³	dB(A)	46 / 46	47 / 49

Measuring conditions see page 31

Indoor unit	RAD-50DH7A	RAD-60DH7A	RAD-70DH7A
Cooling capacity ¹ (control range)	kW	5.0 (0.9~6.0)	6.0 (0.9~7.0)
Heating capacity ² (control range)	kW	6.0 (0.9~7.0)	7.3 (0.9~8.0)
Efficiency EER/COP	W/W	3.57 / 3.77	3.21 / 3.43
Energy efficiency grade		A/A	A/B
Inner dimensions (h × w × d)	mm	270 × 900 × 720	270 × 900 × 720
Sound pressure level ⁴	Cooling	dB(A)	28-30-32-34
Super Low-Low-Medium-High ⁴	Heating	dB(A)	29-31-33-35

Outdoor unit	RAC-50DH7	RAC-60DH7	RAC-70DH7
Nominal power consumption (cooling/heating)	kW	1.400 / 1.590	1.870 / 2.130
Outer dimensions (h × w × d)	mm	800 × 850 × 298	800 × 850 × 298
Sound pressure level outside (cooling/heating) ³	dB(A)	47/50	48/51

Measuring conditions see page 31

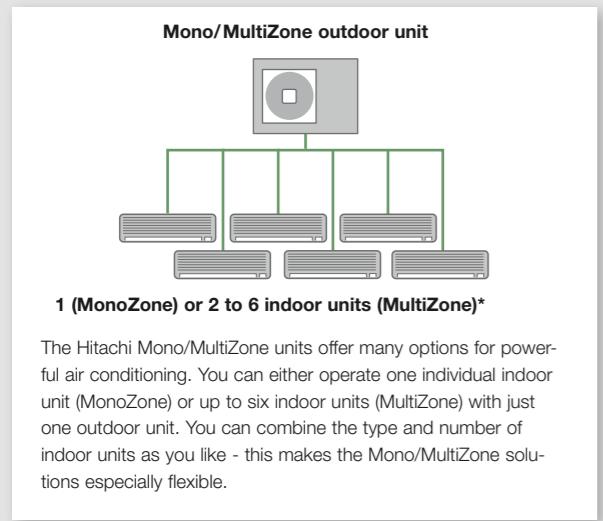
Multi-Split



Extensive range and full indoor / outdoor compatibility

The Hitachi MultiZone range was the worlds first all DC Inverter Multisplit system with zone by zone cooling or heating for up to six rooms.

The integration of MultiZone and MonoZone employing R410A refrigerant provides a comprehensive selection of DC inverter PAM mono and multi split systems, maintaining full compatibility of indoor unit throughout the range. Monozone/Multizone compatible indoor unit range caters for all requirements offering wall mounted, floor standing, euro grid cassettes, and in the ceiling duct units, designed to offer elegance and comfort to any application.



Comprehensive range – long piping and simple installation

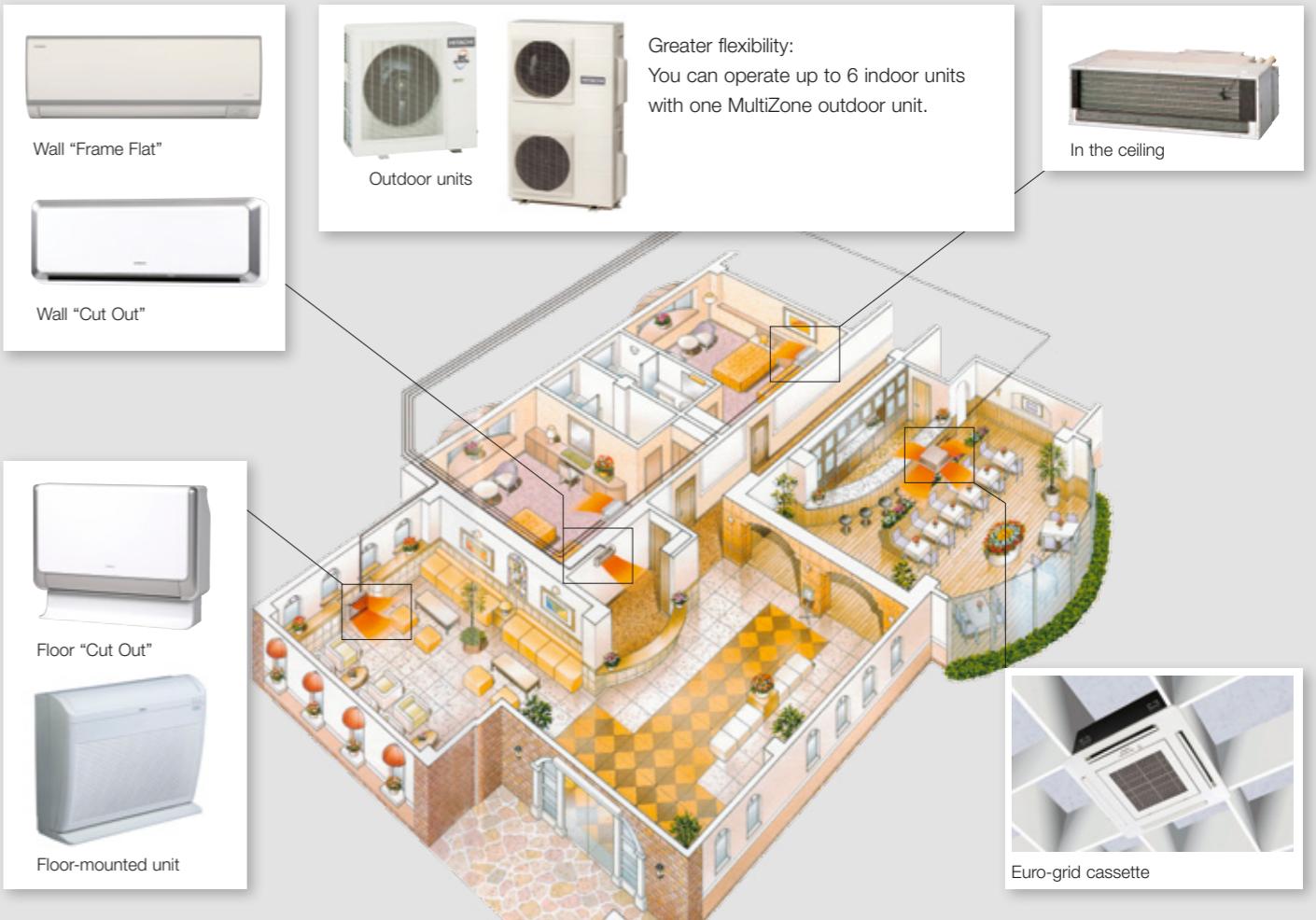
The MultiZone outdoor units are certified for a maximum total piping length of up to 90 metres, when one outdoor unit is operated with up to 6 indoor units at different points. You can choose between 6.0 kW and 17.6 kW of power with the maximum combination of indoor units.

Key benefits

- DC Inverter PAM control
- A wide selection of indoor units and services
- Compatibility between product lines of indoor and outdoor units
- High COP and low noise
- Cooling available under -10°C ambient temperature*
- Heating available under -15°C ambient temperature
- Auto restart by previous mode and Auto changeover**
- Washable carbon and antibacterial air purifying filter
- Wireless remote control switch with 24hr timer
- Highly efficient

* At least 2 indoor units (4 with RAM-130QH5) must be connected to the system. It is not possible for indoor units connected to the system to cool and heat simultaneously.

** Automatic change of operating mode only for the MonoZone series



- Stylish design
- 4 fan speeds
- Stainless steel filter
- Low noise
- Multi-split unit



RAK-18-50QH8
Also available in brown

Cut Out Wall-Mounted



The Cut Out wall-mounted unit has a blower coated with an antibacterial agent. There is also a self-cleaning function through drying. Along with a washable, multi-use air filter, the nano-titanium filter ensures there are less particles in the air and, thus, that you get the best air quality. A stainless steel filter is also used, which replaces the previous conventional air filter. It is able to filter far more particles from the air and makes subsequent cleaning much easier.

- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)
- Available in a range of colours: white and dark silver or beige and brown



RAF-25-50QH8
Also available in brown

Cut Out Floor-Mounted



The Cut Out floor mounted unit has the Hitachi state of the art Nano-Titanium filter which dramatically improves the functions of deodourisation, bacteria elimination and anti-bacterial measures. The washable multi-use air filter ensures there is less bacteria in the air and, thus, that you get the best air quality. The air is fed into the room from floor level and achieves better air turbulence. The unit can also be fitted to the wall as it has a detachable stand.

- Air flow control system keeps warm air at floor level (in heating mode)
- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)
- Available in a range of colours: white and dark silver or beige and brown

Indoor unit	RAK-18QH8	RAK-25QH8	RAK-35QH8	RAK-50QH8
Cooling capacity	kW	1.8	2.5	3.5
Heating capacity	kW	2.5	3.5	4.8
Inner dimensions (h x w x d)	mm	295 x 795 x 198	295 x 795 x 198	295 x 795 x 198
Sound pressure level ³	Cooling Super Low-Low-Medium-High ³	dB(A) 20-26-32-37	dB(A) 20-26-32-37	dB(A) 22-29-35-39
Heating	dB(A) 20-27-33-39	dB(A) 20-27-33-39	dB(A) 22-30-35-41	dB(A) 25-31-39-48

Measuring conditions see page 31

Indoor unit	RAF-25QH8	RAF-35QH8	RAF-50QH8
Cooling capacity	kW	2.5	3.5
Heating capacity	kW	3.5	4.8
Inner dimensions (h x w x d)	mm	590 x 750 x 215	590 x 750 x 215
Sound pressure level ³	Cooling Super Low-Low-Medium-High ³	dB(A) 20-26-31-38	dB(A) 20-26-31-40
Heating	dB(A) 20-26-32-38	dB(A) 20-26-32-39	dB(A) 22-30-36-45

Measuring conditions see page 31

- Stylish design
- 4 fan speeds
- Stainless steel filter
- Compact design
- Very quiet
- Detachable stand
- Multi-split unit

- Flat panel design
- 4 fan speeds



RAK-18~50NH6A

Wall-Mounted Frame Flat



Our classic. Thanks to its design this unit can be integrated almost anywhere.

- New, extra flat design
- Low noise (only 20 dB(A) with RAK-18/25NH6A)
- Cooling performance up to -10 °C ambient temperature
- Heating performance up to -15 °C ambient temperature
- Automatic restart
- Washable carbon and antibacterial air purifying filter
- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)



RAI-25~50NH5A (with panel RAI-ECPM)

4-Way Euro-Grid Cassette



Fits perfectly into a euro-grid ceiling: with its compact dimensions the 580-mm-x-580-mm cassette fits perfectly into a euro-grid ceiling, which simplifies installation work. The air flow routing is excellent, because the unit can be concealed in the ceiling with only the cover visible.

- Built-in drain pump
- The air discharge louvres can be adapted to the room configuration
- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)
- Auto restart with last mode and auto changeover
- Washable carbon and antibacterial air purifying filter

Indoor unit	RAK-18NH6A	RAK-25NH6A	RAK-35NH6A	RAK-50NH6A	RAK-65NH5A*
Cooling capacity	kW	1.8	2.5	3.5	5.0
Heating capacity	kW	2.5	3.4	4.2	6.5
Inner dimensions (h x w x d)	mm	280 x 780 x 220	280 x 780 x 220	280 x 780 x 220	295 x 1,030 x 191
Sound pressure level ³	Cooling Super Low-Low-Medium-High ³	dB(A) 20-26-30-35	dB(A) 20-26-32-38	dB(A) 25-29-35-41	dB(A) 27-31-39-47
					dB(A) 28-33-42-47
					dB(A) 33-34-42-47

Measuring conditions see page 31

Indoor unit	RAI-25NH5A	RAI-35NH5A	RAI-50NH5A
Cooling capacity	kW	2.5	3.5
Heating capacity	kW	3.5	4.8
Inner dimensions (h x w x d)	mm	285 x 580 x 580	285 x 580 x 580
Sound pressure level ⁵	Cooling Super Low-Low-Medium-High ⁵	dB(A) 25-29-32-35	dB(A) 26-29-34-39
			dB(A) 29-32-35-43
			dB(A) 27-30-33-36
			dB(A) 29-32-36-40
			dB(A) 30-32-36-43

Measuring conditions see page 31

- Euro-grid
- Condensation pump
- 4 fan speeds

- Condensation pump
- 4 fan speeds
- Simplified remote control



RAD-18-50NH7A

In the Ceiling



- Compact design – 750 mm wide and 235 mm high
- On/Off timer (12hr timer)
- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)
- Air filter included in delivery
- The air in-take direction can be horizontal or vertical by interchanging the bottom panel with the fan cover.
- Auto restart with last mode and auto changeover (only possible with MonoZone)
- Ready to connect to PCS-6RAD adapter
- Built-in drain pump

NX2 Floor-Mounted



Whether for living or sleeping areas, thanks to its 4-stage control the NX2 floor-mounted unit is able to adapt easily to your needs. The Multi-Split version can be combined with other Hitachi room air conditioning units.

- Stainless steel filter
- Auto restart with last mode and auto changeover
- With wireless remote control switch (optional: LCD remote control switch with week timer; simple remote control switch)
- Curved design

Indoor unit	RAD-18NH7A	RAD-25NH7A	RAD-35NH7A	RAD-50NH7A
Cooling capacity	kW	1.8	2.5	3.5
Heating capacity	kW	2.5	3.5	4.8
Inner dimensions (h x w x d)	mm	235 x 750 x 400	235 x 750 x 400	235 x 750 x 400
Sound pressure level ⁴	Cooling Super Low-Low-Medium-High ⁴	dB(A) 29-31-34-36 27-30-33-37	29-31-34-36 27-30-33-37	29-31-34-36 27-30-33-37
	Heating dB(A)			

Measuring conditions see page 31

Indoor unit	RAF-25NX2	RAF-35NX2	RAF-50NX2
Cooling capacity	kW	2.5	3.5
Heating capacity	kW	3.5	4.8
Inner dimensions (h x w x d)	mm	600 x 760 x 235	600 x 760 x 235
Sound pressure level ³	Cooling Super Low-Low-Medium-High ³	dB(A) 20-26-32-38 20-26-32-38	24-27-32-40 23-26-32-39
	Heating dB(A)		

Measuring conditions see page 31

- No wall mounting
- Stainless steel filter
- Curved design

- Variable choice of indoor units
- Single duct
- Cooling up to -10 °C



Outdoor Units



Multi-Split

Outdoor unit	RAM-35QH5	RAM-52QH5	RAM-53QH5	RAM-65QH5
Outer dimensions (h × w × d)	mm 570 × 750 × 280	650 × 850 × 298	650 × 850 × 298	650 × 850 × 298
Net weight outdoor unit	kg 40.0	50.0	50.0	50.0
Sound pressure level outside ³				
Cooling: (min.~max.)	dB(A) 43~49	45~52	45~52	45~52
Heating: (min.~max.)	dB(A) 44~51	45~53	45~53	45~53
Working range (max.)	°C Cooling: -10 °C ~ +43 °C; heating: -15 °C ~ +21 °C			
Max. indoor units	2	2	3	3

Outdoor unit	RAM-71QH5	RAM-90QH5	RAM-130QH5*
Outer dimensions (h × w × d)	mm 800 × 850 × 298	800 × 950 × 370	1,450 × 855 × 308
Net weight outdoor unit	kg 55.0	71.0	113.0
Sound pressure level outside ³			
Cooling: (min.~max.)	dB(A) 46~53	46~55	48~55
Heating: (min.~max.)	dB(A) 48~56	52~58	48~56
Working range (max.)	°C Cooling: -10 °C ~ +43 °C; heating: -15 °C ~ +21 °C		
Max. indoor units	4	5	6

Measuring conditions see page 31



Accessories

SPX-RCK3

Simple wired remote control switch with on/off function, choice of mode and temperature, fan speed adjustment and on/off timer (12 hours). (The air exit blade must not be blocked.)



SPX-RCK2

Optional wireless remote control kit
Remote controller that can be used instead of the wired remote control switch PM RAD 18 NH7 for units 25/35/50 NH7 and RAD 50/60/70 DH7.



SPX-WKT1

Wired remote control switch with timer function as with SPX-RCK3, but with week timer (5 time windows can be programmed and the days of the week can be assigned.)



PSC-GRD

RAC Adapter
The adapter enables connections to several selected room air conditioners to be connected to the H-Link communication system and enables control via CS Net Web.



The SPX-DST1 splitter must also be fitted for group controls (up to four indoor units).

Measuring conditions

¹ Cooling capacity at room temperature 27 °C (19 °C WB) and ambient air temperature 35 °C; refrigerant piping length 7.5 m; height difference 0 m

² Heating capacity at room temperature 20 °C and ambient air temperature 7 °C (6 °C WB); refrigerant piping length 7.5 m; height difference 0 m

³ Sound pressure level measured at a distance of 1 m (measured in an anechoic chamber)

⁴ Sound pressure level measured at a distance of 1.5 m (measured in an anechoic chamber)

⁵ Sound pressure level measured at a distance of 1.4m (measured in an anechoic chamber)

⁶ The power consumption/the efficiency level relates to the connection of 4-way cassette units euro-grid indoor units.

The values may change slightly with other designs.

* Model with 2 refrigeration cycles

This brochure was prepared carefully to the best of our knowledge and was created exclusively on the basis of the information in our possession.

We take no responsibility and/or give no explicit or implicit guarantee for the completeness and accuracy of the details given herein or for the reliability and usability of the products or services presented in this brochure for a specific purpose or application. Changes to technical details and/or equipment may be made at any time without notification. We hereby expressly refute any liability for direct or indirect damages of any kind, which arise from use or interpretation of this brochure. Hitachi Europe GmbH or a company of the Hitachi Group, retains the copyright for all texts and pictures, unless stated otherwise in this brochure. This brochure does not represent a binding offer from Hitachi Europe

Hitachi Europe GmbH
Am Seestern 18
40547 Düsseldorf

www.hitachiaircon.com

RACEN-01-2011

All rights reserved.

Your specialist partner:

