

# Catalogue PRO 2020

air

Johnson Controls Hitachi Air Conditioning  
Conditioning Europe SAS

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# HITACHI

Cooling & Heating

# HITACHI

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# Welcome to Hitachi Cooling & Heating Climate-control solutions

**Over 100  
years of  
history and  
culture**

**Japanese  
technology**

**15 factories  
around the  
world**

**Born in  
Japan, with  
a global  
presence**

Hitachi is the global brand for premium climate-control solutions, renowned for its ability to create unique spaces, understand installation requirements, and provide customer satisfaction.

By designing, engineering and manufacturing reliable, efficient, high-quality heating and cooling systems, we help people find their optimal air-conditioning solution, always meeting their expectations.

Our goal is to create a world where, thanks to our cutting-edge Japanese technology, people can live in harmony with themselves, their families, and the environment around them.

To ensure its global reach, Hitachi has 15 factories\* around the world, producing the various Hitachi climate-control ranges and components: residential, commercial, heating, VRF, chillers and compressors.

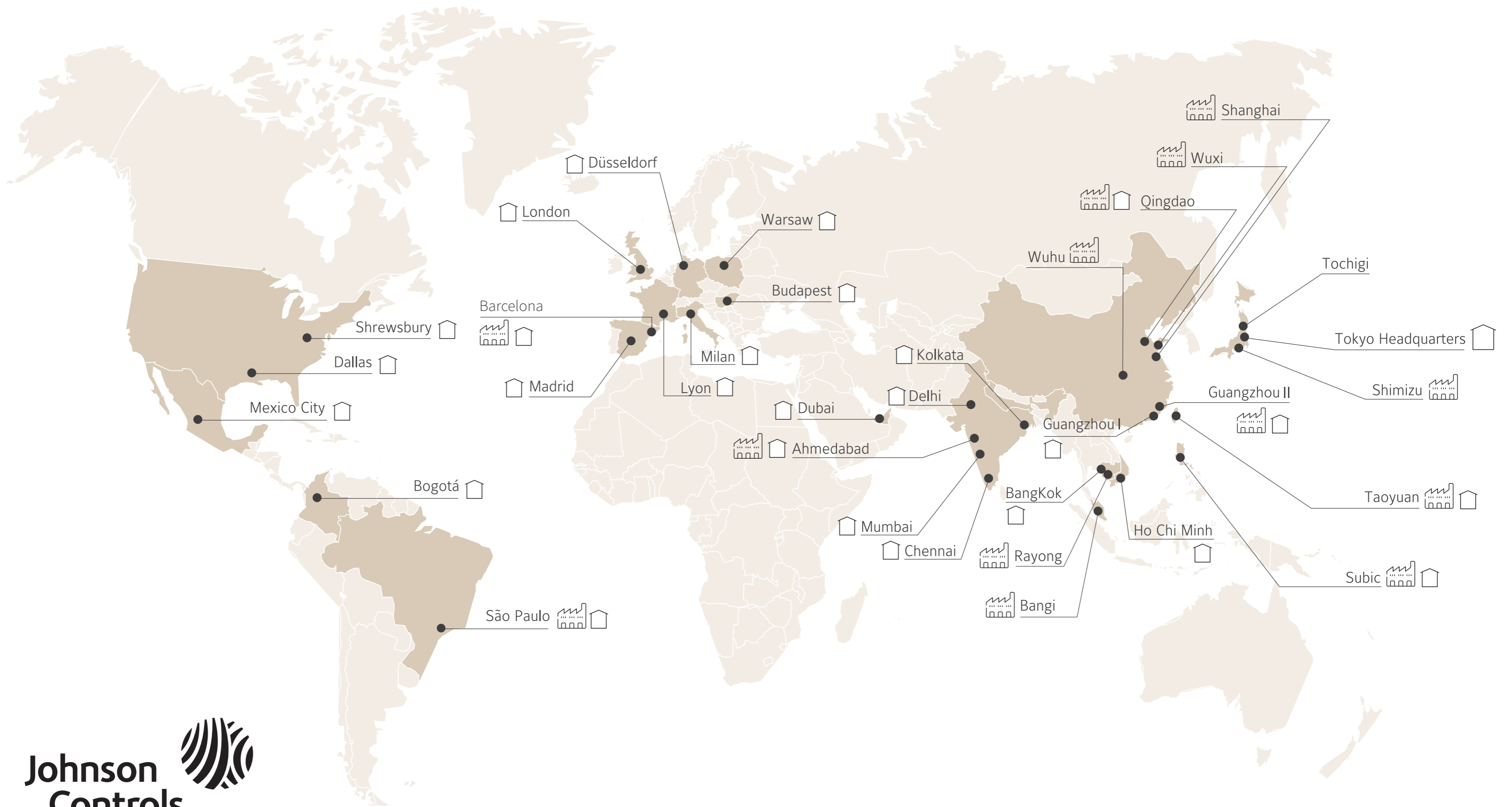
\* Including joint ventures.



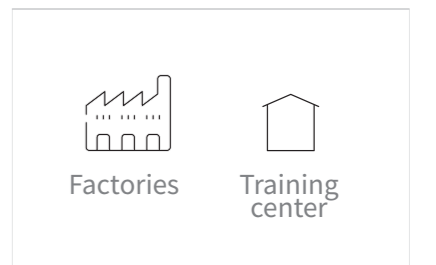
# Global climate-control solutions from Hitachi factories

Introduction

Introduction



**HITACHI**  
Air conditioning solutions



# Hitachi's European factory in Spain

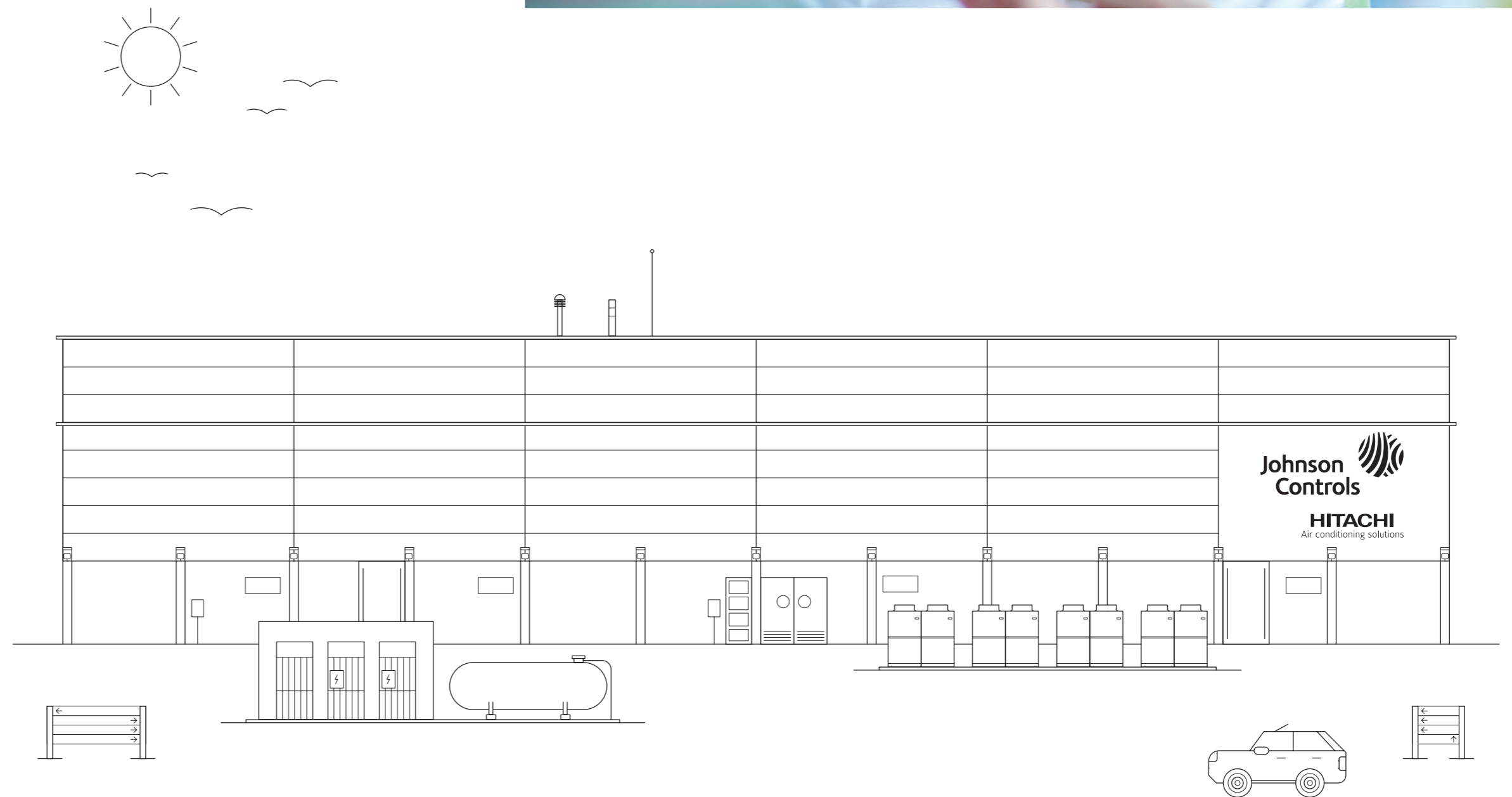
A look behind the scenes...



The Spanish factory in Vacarisses, Barcelona is responsible for designing, manufacturing and inspecting each climate-control unit. It also supplies equipment to Europe, Africa, Australasia and parts of South America.

Its location allows us to control the design and manufacturing process to ensure our units meet the highest quality, reliability and durability standards for our customers. We also offer fast delivery and high-availability of spare parts, and direct contact with the design area.

The factory currently produces the following product lines: Samurai L Chillers, VRF systems, Yutaki heat pumps, IVX commercial range and the System Free indoor units, representing almost the entire portfolio of Hitachi equipment.



We design cutting-edge technology to meet your needs and desires








Johnson Controls Hitachi Air Conditioning Europe offers the world's most complete range of climate-control, heating and air-conditioning products.


Always at the forefront of technology, Johnson Controls Hitachi Air Conditioning Europe develops high-technology products for an environment with maximum comfort in any situation. From professional or domestic environments to industrial climate control. From new constructions to renovation products. At Hitachi Cooling & Heating, you will always find a solution. In addition, respect for the environment is also one of our priorities, from the design of the product to its production, through installation and startup. Whatever your expectations are, the Hitachi network is there to support you and offer you the right solutions.



**15,000**  
employees worldwide



**2019**  
Double digit growth in Europe

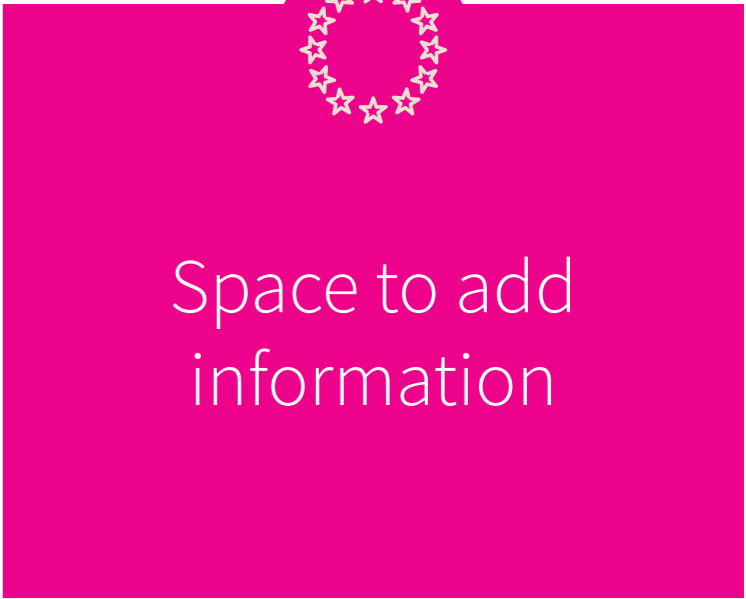



**15 factories\***  
owned by Johnson Controls Hitachi around the globe. Factory in Barcelona for the whole of Europe



More than **200**  
partners across Europe & Northern Africa

\* Including joint ventures.

More than **40 000m<sup>2</sup>**  
of manufacturing footprint in Europe

**KIWA**  
Certification to testing laboratory V for heating

**MSC**  
Certification to testing laboratory II for heating

**Eurovent Certification**  
(WC commercial test) to water chilled laboratory

**Zero Waste to Landfill**  
(Johnson Controls unique certification)




Over **1 200**  
employees across the region



Sales offices or partners in **44**  
countries across Europe and Northern Africa



**9**  
training centers in the region

# Over 130 years of innovation



- 1883**  
In 1883, Warren S. Johnson registered a patent for the first electric thermostat. His invention launched the Johnson Controls building-control sector.
- 1910**  
In 1910, Namihei Odaira founded an electrical repair shop at Kuhara Mining in Hitachi (Ibaraki, Japan). The company has been a technology leader ever since.
- 1936**  
First fully climate-controlled office building with air conditioning.
- 1952**  
First air conditioner in Japan.
- 1958**  
First monobloc centrifugal chiller with water-cooled condenser.
- 1962**  
First heat pump in Japan.
- 1978**  
First chiller with variable speed drive.
- 1983**  
First DC inverter air conditioner.
- 1999**  
First graphic user interface (GUI) panel on a refrigerator.
- 2005**  
With the acquisition of the York® brand, the Group becomes the leading one-stop supplier of heating, ventilation, air-conditioning and refrigeration solutions.
- 2006**  
- First multi-split on the market with 6 outlets.  
- First air-to-water heat pump.
- 2008**  
- First console designed for the heating market.  
- First UTOPIA IXV on the market.
- 2010**  
Johnson's headquarters earns LEED Platinum certification. This green building label, given to cutting-edge programs of energy and environmental design, is developed by the United States Green Building Council.
- 2011**  
- First thermal-energy reservoir on the market.  
- First 2-pipe / 3-pipe VRF on the market.
- 2013**  
First high-temperature air source heat pump.
- 2014**  
- First air source heat pump with DHW service and heating.  
- Eurovent certificate for VRF.
- 2015**  
On October 1, launch of the new company Johnson Controls Hitachi Air Conditioning.
- 2016**  
- New range of YUTAKI residential air-to-water air source heat pump range.  
- Hi Kumo app for PAC units.
- 2017**  
New Hydrofree solution: DHW production in VRF.
- 2018**  
- Multi T solution, the first solution with a thermal energy reservoir and direct expansion units.  
- New VRF SIGMA range.  
- Complete new range of Samurai chillers.
- 2019**  
- FrostWash: freezes and eliminates dust, mold and bacteria for fresh, clean air.  
- Side flow VRF, the only solution on the market with horizontal-discharge heat-recovery systems.  
- Yutaki R32, air source heat pump with R32 for a more sustainable world.

# Hitachi High technology



**FROST  
WASH**

**FrostWash**  
Automatic cleaning of  
wall-mounted exchanger

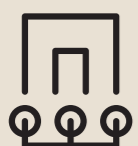
With this technology, the heat exchanger automatically freezes to eliminate all the impurities and maintain optimal performance.



**CONSTANT  
POWER**

**Constant Power**  
Maintaining output down to  
-15°C ambient

Thanks to "Constant Power" technology, the exclusive design of our outdoor units is able to maintain output capacity at up to -15°C on the outside and operate at up to -25°C outside.



**Yutaki Smart Cascade**  
Intelligent regulation for  
greater energy efficiency

Hitachi has an exclusive smart control, consisting of two refrigeration stages with R410A and R134A. Its functionality automatically changes, either to R410A only or to cascade (activating the second stage with R134A if necessary).



**Wizard**  
Intuitive configuration  
assistant

With the wizard you can quickly configure Yutaki installations to adapt them to any environment: pool, boiler combination, solar...



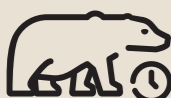
**4-Way Swing**  
Balanced horizontal  
and vertical

A technology that offers even more comfort in the Performance Wall-Mounted range.



**Vector Control**  
Patented Hitachi system

Optimizes the operation of compressors on outdoor units to achieve unbeatable performance.



**Hibernation**  
Intelligent regulation for  
outdoor units

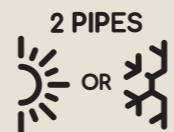
Able to achieve a 70% reduction when stopped.



**GENTLE  
COOL**

**Gentle Cool**  
No cold drafts

This function restricts the off-temperature air to prevent cold drafts and ensure greater comfort.



2 PIPES



3 PIPES

**2-pipe/3-pipe  
concept**  
Total flexibility

Outdoor units designed to work in applications in Heat-Pump or Heat-Recovery mode

**SYSTEM  
FREE**

**System Free**  
Flexibility

System Free indoor units come with a switch, as standard, that allows them to adjust as finely as possible when they start up.

**POWER  
SWITCH**

**Power Switch**  
Adaptability

All the outdoor units of our tertiary range (Mono-split and VRF) are compatible with the indoor units and all the tertiary-supply control systems.



**Smooth  
Drive Control**  
Comfort & Savings

This function is used to control the speed of the compressor down to 0.1 Hz, to guarantee the most constant possible comfort temperature.



**Self-adjusting  
evaporation  
temperature**  
Energy saving

The Sigma range is equipped with a regulation that optimizes cold-start energy consumption while guaranteeing optimal comfort.



**Smart defrosting**  
More comfort in heating  
mode

Thanks to new integrated electronics, in the Sigma outdoor units, the continuous heating periods are twice as long as they are in conventional systems (up to 250 mins). Defrosting time is reduced, ensuring optimal comfort.



**All-included  
Smart buildings**  
Tertiary solutions

The standard electronics integrated in all contacts (input/output) mean it can be integrated in all cases.



**Occupancy sensor**  
Savings

Detects human activity to keep energy costs down

# R32 refrigerant, the new-generation green refrigerant



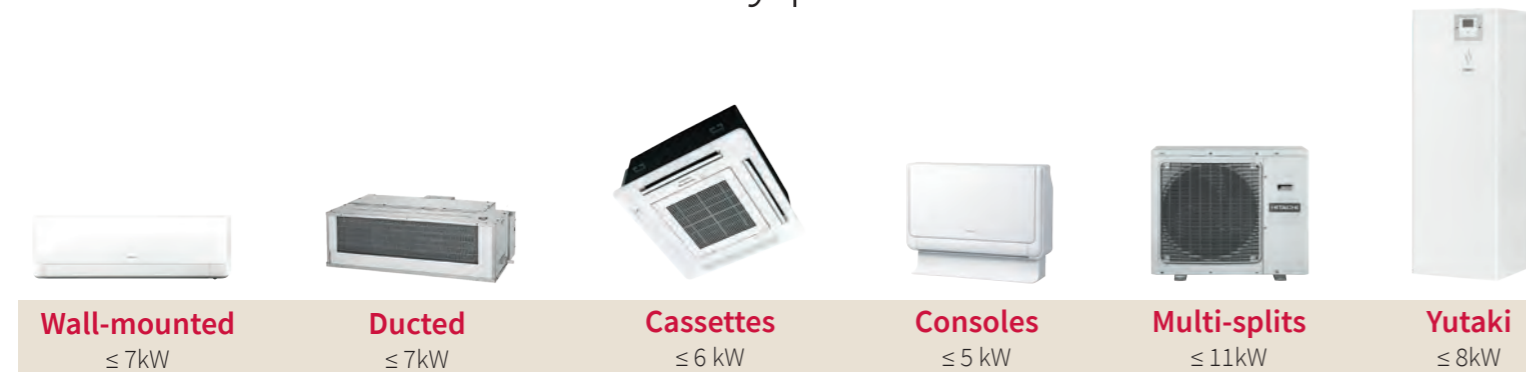
## R32 regulation and specifications.

The goal of the European Regulation on Refrigerants (F-Gas) and the European Directive on ErP (energy-related products) is to achieve a 20% reduction in global greenhouse-gas emissions by 2030 and to gradually restrict the quantities emitted in CO2 equivalent, which it is possible to put on the market. These new regulations therefore encourage the use of products containing fluids with a lower global warming potential (GWP). The inclusion of the R32 refrigerant in our Hitachi units coincides with F-Gas objectives, while at the same time

helping to contribute to a more sustainable world and allowing our customers to enjoy these same benefits. Since 2013, Hitachi Cooling & Heating has dominated this technology and has produced R32 units for more than 40 countries. **In 2019, Hitachi Cooling & Heating expanded its offer, including the refrigerant R32 in a larger selection of products to offer its customers more quality, performance, longevity and comfort.**

## Hitachi Cooling & Heating ranges with R32

Choose the most eco-friendly presentation



Hitachi Cooling & Heating units with R32 are compatible with all residential installations, as well as tertiary applications, and category-5 ERT and ERP.

## R32 ranges are...



### Those with the highest energy benefits

R32 has excellent thermal properties and greater energy efficiency compared to R410A, as it is 5 to 10% more efficient. R32 equipment performs better than equipment running R410A. Our R32 units earn an additional energy class.



### Greener solutions

On the one hand, R32 is a solution that is three times more ecological than R410A, with a GWP of 675 compared to a GWP of 2088 for R410A. Its carbon footprint is three times smaller than that of R410A, so its impact is three times as low on global warming.

On the other hand, this fluid also has zero impact on the ozone layer: ODP (ozone depletion potential) = 0.



### Use of a pure fluid

R32 is a pure fluid, so it is easy to recycle. It also means the gas is easier to handle when charging, as it can be charged in both liquid and gaseous state, unlike R410A (which must always be charged in liquid state).

In terms of R32 installation and maintenance methods, they are still relatively identical to those of R410A, as both these fluids have very similar pressure ranges. (Design pressure: R410A = 4.15 MPa / R32 = 4.29 MPa.)



### Safety approved

R32 belongs to the A2L safety class, which means it is non-toxic yet mildly inflammable, with a maximum combustion speed of under 7 cm/s, so it is safe to use in most air-conditioning and heating applications.

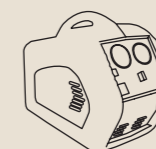
R32 is not explosive and the risks of combustion and fire spread are very low (as low as all gases in domestic appliances). In fact, R32 is inflammable if the following three elements are present: Concentration in air > 0.307 kg/m<sup>3</sup> + oxygen content + combustion source. However, only people with experience should handle gases under pressure and it is important to observe the safety standards for use. Handling and installation of units with R32 requires special precautions and adapted equipment:



Pressure gauge with scale adapted to R32



Fluid-recovery bottle adapted for refrigerant



Station adapted for fluid recovery.



Electronic leaks detector

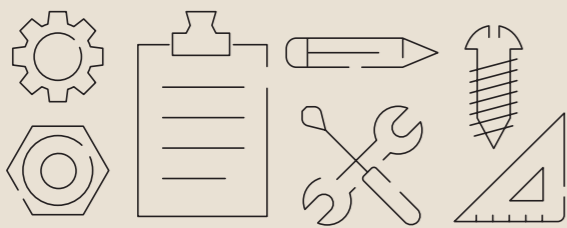
#### Precautions to keep in mind:

- Make sure there are no leaks so that no oxygen gets into the refrigerant.
- Ventilate the site of installation to reduce the concentration of gas in the room in case of problems.
- Regularly check for airtightness of the system and the quantity of refrigerant.

# Quality you can count on



How do you view that quality in our products?



The different parts of our units are manufactured with the highest-quality materials sourced from carefully chosen suppliers. This is how you obtain worry-free lifelong climate control.

## Quality control



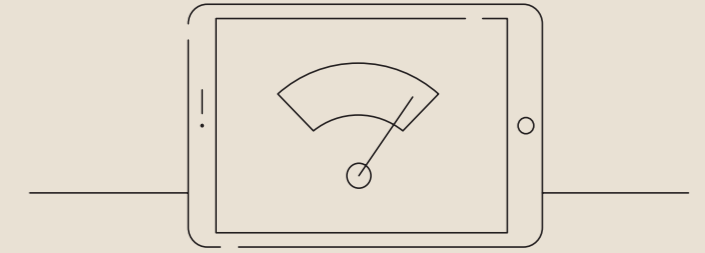
Just as you do in each installation, we test the climate-control units one by one, without sampling. This is how you obtain standards of quality and guaranteed reliability in all our equipment.

## No waste is sent to a landfill



100% of the waste generated at the factory is recycled or its value increased. That way, our factory makes the most of its waste, contributing to environmental sustainability.

## Certified performance



All our seasonal efficiency levels are certified by the Eurovent and Keymark certification programs.

We support your own commitment to sustainability



## Automatic centralized spare parts warehouse

Our new spare parts warehouse in our European factory delivers optimal access to spare parts and we have a policy in place to keep spares for 10 years after the discontinuation of the unit for most units.

## Refrigerant



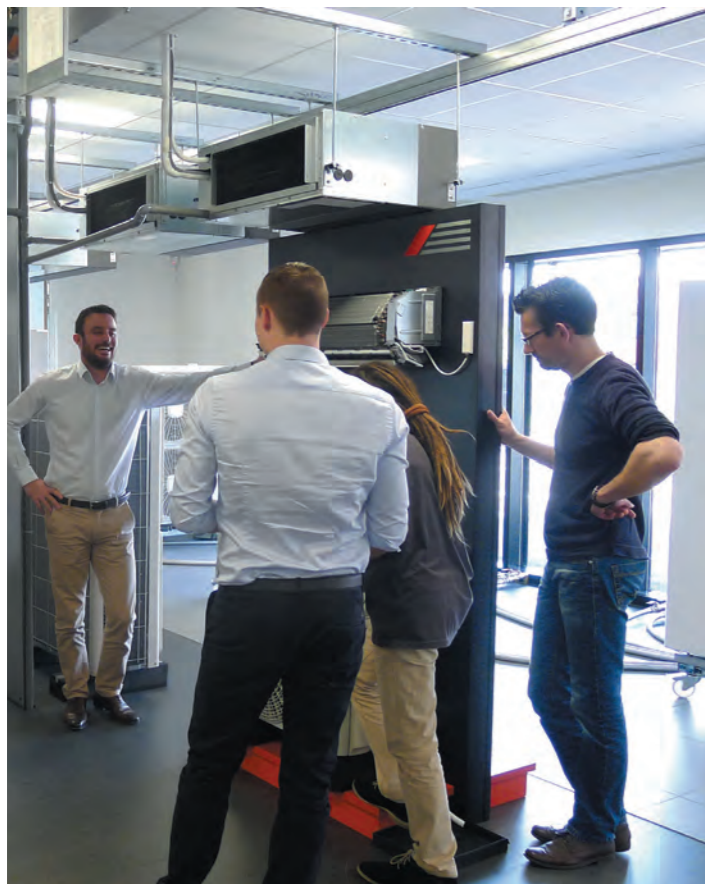
To help you with your commitment to the environment, a feature of many of our units is that they need less refrigerant to work, so they make a positive contribution to nature and society.

# Technical training at Hitachi



## Whatever your goals are, at our training centers we offer:

- In-depth knowledge of our products and the principles of their installation.
- Full mastery of the products
- Become an expert in the specific areas you need and be able to make accurate diagnoses of the products.



## Educators: quality pedagogy and equipment

With their experience, your trainer will combine theory with practice so that you will end up with specific know-how at the end of the course.

At the Hitachi training center, our units (mono-split, multi-split, VRF, SET FREE and air-to-water heat pumps) are installed in real conditions to enable you to handle the products that are actually in operation.

# BIM

**The digitalization of the construction sector** is increasing evidence of the proximity to design based on BIM (Building Information Modeling). To begin with, since December 17, 2018, all building construction projects with government financing in excess of two million euros are required by law to be executed in BIM.

Currently, as of July 26, 2019, all infrastructure construction projects with government financing must be executed in BIM.

The goal for 2020 is to have all public equipment and infrastructure of projects, new works and refurbishments presented in BIM.

## What exactly is BIM (Building Information Modeling)?

BIM is a model designed to optimize the design, execution and management of construction, including integration with specific electronic methods and instruments, in the scope of the design of the building and its structure. With BIM we can process all the relevant data of the construction and present the results available at each stage of the process in an open digital format.

The mandatory use of specific electronic methods and tools is aimed at rationalizing the planning and the related verification activities, improving and removing processes that up to now have affected the times and means of participating in tenders.

Important construction data are collected, combined and compiled digitally, in order to have a visualization with a three-dimensional geometric model.

BIM is not only used in the sector of design and construction (architecture, engineering, technical implementations), but also in resource management.



# The peace of mind you need with Hitachi support

## The official Hitachi technical service

Because we know you are looking for quick, efficient response, our Official Hitachi Technical Service is quick to tackle any type of incident. The professionals who receive constant training by Hitachi at the European factory in Barcelona know the entire Hitachi range from top to bottom, and are capable of responding to any query or incident that might arise.

**48 HOURS: Technical support's maximum response time**

Hitachi offers a technical support period of two business days, from the time we receive the technical support request at our service department, unless circumstances are beyond Hitachi's control.

### Ever-available stock of spare parts

Spare parts delivery, maximum two business days after receiving the order, unless circumstances are beyond Hitachi's control. These delivery times are possible thanks to an ever-available stock of spare parts. Hitachi guarantees the availability of functional spare parts for a period of ten years from the final manufacture date of each series.

### Include country contact detail

#### Call us on:

T: 900 844 480  
Hours: M-T 9:00-18:30; F 9:00-14:30

#### Or if you prefer, write to us at:

asistencia.tecnica@jci-hitachi.com  
administracion.spain@jci-hitachi.com

#### If you need spare parts, write to:

recambios@jci-hitachi.com

## Eurovent Certification. First Japanese manufacturer to certify its products at Eurovent

Hitachi's climate control systems are Eurovent certified for full reassurance in any type of application. Certification guarantees the performance of our systems under the most demanding conditions, as it complies with European legislation, giving consultants, fitters and end users the peace of mind that the systems they have selected will perform as specified.

Being in the directory of products certified by Eurovent means being a manufacturer that offers transparency and efficiency across the entire business chain.

Remember to ask for the Eurovent certificate for your equipment.

Recycling of electrical and electronic devices.

The Ecotic Foundation provides an integrated ECOinstallers management system for the service of collecting and handling air-conditioner waste.

Get rid of your electrical appliances at your nearest local waste facility for recycling

Call 900 103 281 or write to:  
soporte@ecotic.es



# HITACHI



# Residential Innovations



## Multi-split range with combinations of 2 to 5 indoor units and a power rating of up to 11 kW

A new range of high-performance indoor units with R32 that can be combined with multi-split and mono-split units.



## Lorai Wall-Mounted

New Lorai wall-mounted range with a unique design that incorporates the novel FrostWash function developed by Hitachi for evaporator self-cleaning.

P. 110



## RAI-RPE cassette from 2.5 to 6 kW

Innovative range of 600 x 600 R32 cassette units that incorporate individual control of the vent louvers. Compatible with multi-split and mono-split.

P. 95 - P. 144



## RAD-RPE duct from 2.5 to 6 kW

The new range of R32 ducts allows adjustment of the available static pressure up to 150 Pa. Compatible with multi-split and mono-split units.

P. 174



## RAF-RXE console from 2.5 to 5 kW

The Takai console also uses R32, but with a higher performance level.

P. 93 - P. 127



## Triple C

An innovative solution designed to combine air conditioning, heating and DHW production using the same outdoor unit.

P. 86



## Wall-Mounted R32 Light Commercial range from 5 to 7 kW

Wall-mounted units with the Human Sensor series occupancy detector in all power options, with multi-split and mono-split.

P. 118



## Yutaki R32 range, 2, 2.5 and 3 metric HP

We are expanding our Yutaki R32 range to include a new compact unit: the 2 metric horsepower Yutaki M. P. 46 - P. 52 - P. 72



## Hi Kumo PRO

Our app-based remote-control solution makes it possible to integrate our air-conditioning units with Yutaki units.

P. 108



# Innovations in VRF Systems



## Wall-Mounted RPK

A harmonious design with a range of power options from 0.4 to 4 metric HP and lower noise levels.

P. 276



## VRF Set Free Mini

A wide range of power options in horizontal discharge systems, from 4, 5 and 6 metric HP outdoor units with two-pipe systems, to 8, 10 and 12 metric HP outdoor units with three-pipe systems.

P. 244



## Wired controls

Now with more functions, including the new GENTLE COOL, which prevents cold drafts in the indoor unit, with an adjustable setpoint temperature at intervals of 0.5°C.

P. 336



## CSNet Manager centralized controls

Our CSNET centralized controls, revamped and expanded to control anything from small solutions to large buildings.

P. 340



## New BACNET & KNX & MODBUS gateways

Preset communication gateways, certified and more direct for easier integration.

P. 337



## Samurai Chillers

Our Samurai chillers with screw compressors and scroll inverter. Power ranges from 12 to 4000 kW.



P. 358

Compliant with F-Gas regulations, our new R32 Hitachi are part of our commitment to the environment. We have been getting ready for these changes since 2013 by developing R32 solutions in Japan.

A range designed for commercial applications is also available in R410A in order to meet the regulatory challenges facing ERP.



# Wall



Lorai Air Pur



Light Commercial Wall



Takai



Mokai



Dodai 2

NEW



Micro VRF IXV Comfort



# Quick selection guide

## Indoor units

		R32 REFRIGERANT	Performance	Hi-KUMO and Hi-KUMO Pro compatible:	Ultra compact	Weekly programming	4 Way Swing	Motion sensor	FROS WASH	CONSTANT POWER -15°C	Self-cleaning filter robot	SCOP	SEER
Wall Lorai Air Pur	Single (2.5 - 3.5 and 5.0 kW)	R32 REFRIGERANT	++++	•	-	•	•	•	•	•	•	5.10	9.00
Wall Takai	Single/Multi (2.5 - 3.5 and 5.0 kW)	R32 REFRIGERANT	++++	•	-	•	•	•	•	•	-	5.20	8.70
Wall Mokai	Single/Multi (2.5 - 3.5 - 4.2 and 5.0 kW)	R32 REFRIGERANT	+++	•	•	•	•	•	•	-	-	4.90	8.50
NEW Wall Dodai 2	Single/Multi (1.8 - 2.5 - 3.5 and 5.0 kW)	R32 REFRIGERANT	++	•	•	Option	-	-	•	-	-	4.30	6.10
Wall Light Commercial		R32 REFRIGERANT	+++	•	-	•	•	•	-	-	-	4.60	7.30
Wall Micro VRF IXV Comfort		R410A REFRIGERANT	-	-	-	Option	-	-	-	-	-	4.14	5.56

Wall

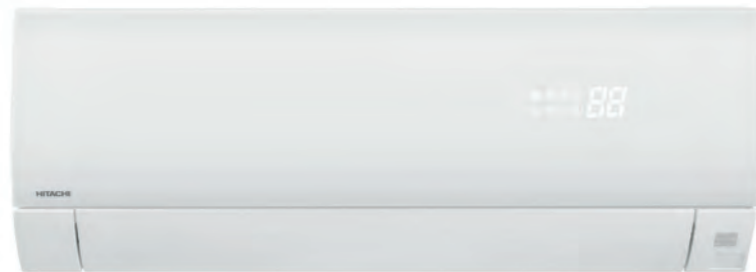
Wall

# Lorai Air Pur

For improved air quality all year round, combining a range of exclusive and innovative functions



Lorai Air Pur



RAK-PSEW



RAK-PSES

## FrostWash

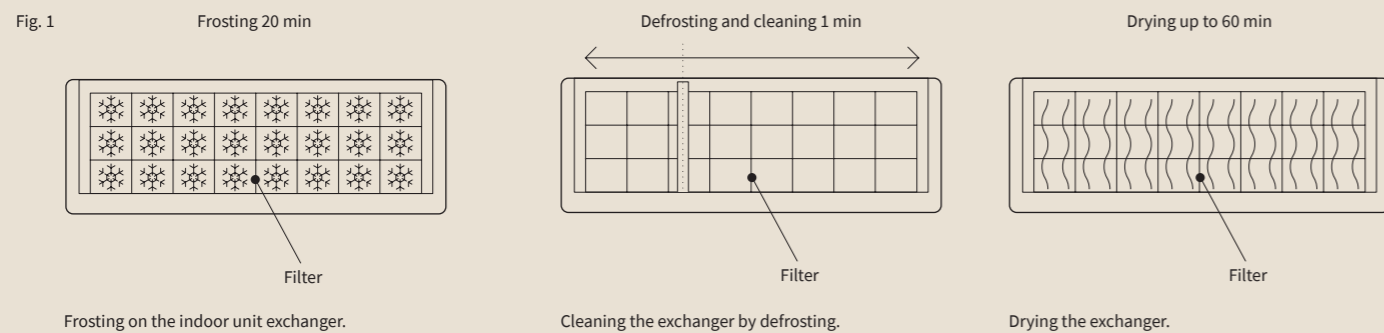
Automatically and regularly cleans the heat exchanger for the distribution of clean and pure air. (Fig.1)

## Stainless Clean

The interior of the Hitachi Premium range is made of stainless steel, with 51% less dust build up compared to units with plastic interiors.

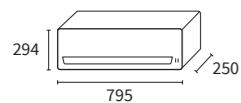
## Auto filter Clean

The filters capture and get rid of ultra-fine particles including allergens and pollutants.

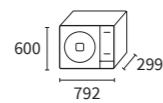


### Indoor units

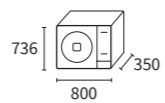
### Outdoor units



RAK-25PSEW RAK-35PSES  
RAK-25PSES RAK-50PSEW  
RAK-35PSEW RAK-50PSES



RAC-25WSE  
RAC-35WSE

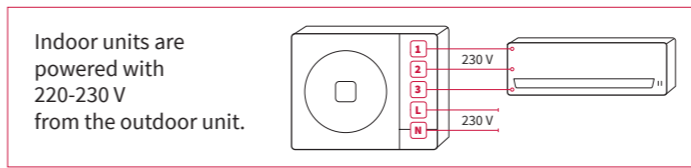


RAC-50WSE

# Lorai Air Pur

Cooling performances	Unit	2.5KW	3.5KW	5KW
Cooling Capacity (min-max)	kW	2.50 (0.50 - 3.40)	3.50 (0.50 - 4.10)	5.00 (1.90 - 5.20)
Absorbed capacity Cooling (min-max)	kW	0.490 (0.300 - 0.920)	0.778 (0.350 - 1.350)	1.389 (0.400 - 1.820)
EER		5.10	4.50	3.60
Energy class Cooling		A+++	A+++	A++
SEER (medium climate)		9.00	9.00	7.50
Guaranteed performances Cooling	°C	-10°C/+43°C	-10°C/+43°C	-10°C/+43°C
Heating performances	Unit	2.5KW	3.5KW	5KW
Heating Capacity (min-max)	kW	3.20 (0.60 - 5.80)	4.00 (0.60 - 6.60)	6.00 (2.20 - 7.00)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	3.20	3.90	5.40
Absorbed Heating Capacity (min-max)	kW	0.621 (0.440 - 1.500)	0.800 (0.500 - 2.000)	1.622 (0.600 - 2.650)
COP		5.15	5.00	3.70
Energy class Heating		A+++	A+++	A++
SCOP (medium climate)		5.10	5.10	4.70
Guaranteed performances Heating	°C	-20°C/+24°C	-20°C/+24°C	-20°C/+24°C
Indoor Units	Unit	RAK-25PSE(W/S)	RAK-35PSE(W/S)	RAK-50PSE(W/S)
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	22/28/34/41	22/29/36/43	25/31/38/46
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	22/28/34/42	22/29/36/44	25/31/38/48
Sound pressure Cooling	dB(A)	55	57	60
Air flow Cooling (Very low - Low - Medium - High)	m³/h	270/320/420/510	270/340/440/540	300/400/490/590
Dehumidification	l/h	1.4	1.6	2.0
Dimensions (H x W x D)	mm	294 x 795 x 250	294 x 795 x 250	294 x 795 x 250
Weight	kg	11	11	11
Controller		Infrared weekly (included)	Infrared weekly (included)	Infrared weekly (included)
Outdoor units	Unit	RAC-25WSE	RAC-35WSE	RAC-50WSE
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	47	48	51
Sound pressure Cooling	dB(A)	61	62	65
Air flow (Cooling/Heating)	m³/h	1860/1620	1920/1620	2160/2160
Dimensions (H x W x D)	mm	600 x 792 x 299	600 x 792 x 299	736 x 800 x 350
Weight	kg	37	37	51
Refrigeration specifications	Unit	RAC-25WSE	RAC-35WSE	RAC-50WSE
Pipe diameter (Liq/gas)	Inch	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Initial refrigerant charge	kg	0.98	0.98	1.3
Pre-charged for	m	20	20	30
Minimum length	m	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	30/-
Maximum height difference (highest OU/lowest OU)	m	20/10	20/10	30/10
Refrigerant		R32	R32	R32
Electrical specifications	Unit	RAC-25WSE	RAC-35WSE	RAC-50WSE
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Current during operation (Cooling/Heating)	A	2.26/2.85	3.56/3.65	6.33/7.38
Cable diameter (EN 60 335-1)	mm²	1.50x 2+T	1.50x 2+T	2.50x 2+T
Indoor/outdoor wiring section (shielded)	mm²	1.50x 3+T	1.50x 3+T	2.50x 3+T
Compressor		Rotary	Rotary	Rotary 2 cylinders
Price	Ref.	XRAK-25PSEW / XRAK-25PSES	XRAK-35PSEW / XRAK-35PSES	XRAK-50PSEW / XRAK-50PSES
Environmental contribution	Ref.			

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).



## Compatible controls and accessories

**Infrared controller**  
RAR-6NE1  
Included

**Simplified wired control**  
SPX-RCDB  
Pre-tax price:

**Programmable wired control**  
SPX-WKT3  
Pre-tax price:

**H-Link box**  
PSC-6RAD  
Pre-tax price:

### Others\*:

- Multi-indoor units control box SPX-DST1 + SPX-WDST8M
- Hi-Kumo Wifi gateway SPX-WFG01:
- Hi-Box AHP-SMB-01 :
- Hi-Kumo gateway for Hi-Box SPX-TAG01:
- Dry contact kit only SPX-WDC3:
- Fault report kit only SPX-WDC7 + HA-S100TSA

\* All prices are pre-tax

# Takai

Power and comfort in complete harmony



Takai



## Motion sensor

Technology saving you money thanks to the motion sensor which continuously analyses if anybody is in the room. If nobody is detected after 20 min, the temperature setting is moved by one degree and by a further degree after 40 min. (Fig. 1)

## 4 Way Swing

Thanks to the vertical and horizontal flap movement, air distribution is more regular, making the room more comfortable. (Fig. 2)

## Constant Power Technology

CONSTANT POWER technology was specially developed by HITACHI. It improves the performance of your heat pump and can maintain its heating capacity up to an outside temperature of -15°C and ensure heating up to -20°C. (Fig. 3)

## Double ventilation blade

In order to ensure a pleasant and more regular air flow in the room, the Takai features a double ventilation blade. This double blade ensures discrete comfortable air flows, preventing the unpleasant 'oscillating ventilator' effect.

## FrostWash Technology

The Takai was designed to provide effective air purification throughout the year with its exclusive and innovative function: FrostWash. It automatically and regularly cleans the heat exchanger for the distribution of clean and pure air.

## Low sound level

The Takai's indoor units were designed with a sound level from 20dB(A) for very discrete operation.

Fig. 1

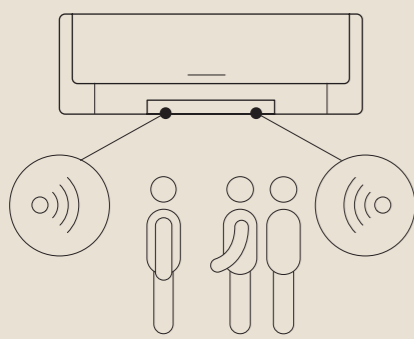


Fig. 2

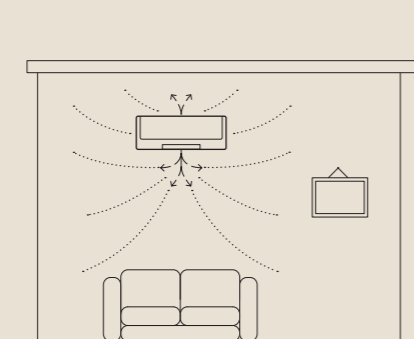
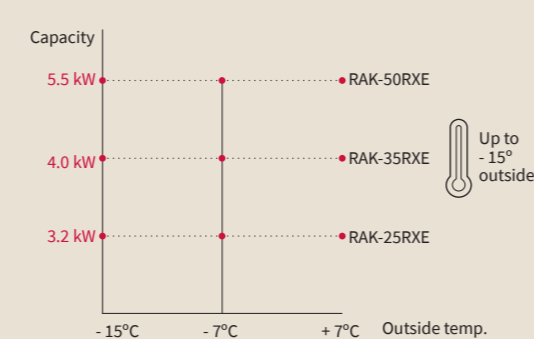
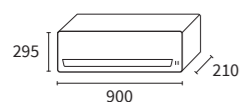


Fig. 3

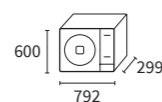


### Indoor units

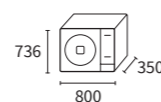


RAK-25RXE  
RAK-35RXE  
RAK-50RXE

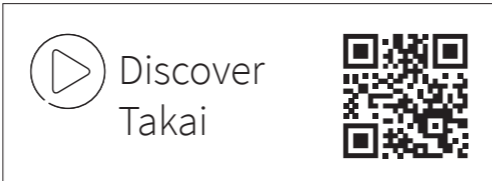
### Outdoor units



RAC-25WXE  
RAC-35WXE



RAC-50WXE



# Takai

Cooling performances	Unit	2.5KW	3.5KW	5KW
Cooling Capacity (min-max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Absorbed capacity Cooling (min-max)	kW	<b>0.481 (0.25 - 1.00)</b>	<b>0.814 (0.25 - 1.40)</b>	<b>1.397 (0.50 - 2.10)</b>
EER		5.20	4.30	3.58
Energy class Cooling		A+++	A+++	A++
SEER (medium climate)		8.50	8.70	7.50
Guaranteed performances Cooling	°C	-10°C/+ 43°C	-10°C/+ 43°C	-10°C/+ 43°C

Heating performances	Unit	2.5KW	3.5KW	5KW
Heating Capacity (min-max)	kW	3.20 (0.90 - 4.20)	4.00 (0.90 - 4.80)	5.80 (2.2 - 7.00)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	3.20	4.00	5.50
Absorbed Heating Capacity (min-max)	kW	0.593 (0.25 - 1.20)	0.800 (0.25 - 1.60)	1.415 (0.50 - 2.70)
COP		5.40	5.00	4.10
Energy class Heating		A+++	A+++	A++
SCOP (medium climate)		5.20	5.20	4.70
Guaranteed performances Heating	°C	-20°C/+ 21°C	-20°C/+ 21°C	-20°C/+ 21°C

Indoor Units	Unit	RAK-25RXE	RAK-35RXE	RAK-50RXE
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	20/27/35/43	22/29/37/45	25/31/39/47
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	20/28/36/43	22/30/37/45	25/31/39/48
Sound pressure Cooling	dB(A)	58	60	60
Air flow Cooling (Very low - Low - Medium - High)	m³/h	300/330/510/600	320/340/520/660	350/400/580/720
Dehumidification	l/h	1.4	1.6	2
Dimensions (H x W x D)	mm	295 x 900 x 210	295 x 900 x 210	295 x 900 x 210
Weight	kg	11	11	11
Controller		Infrared weekly (included)	Infrared weekly (included)	Infrared weekly (included)

Outdoor units	Unit	RAC-25WXE	RAC-35WXE	RAC-50WXE
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	47	48	51
Sound pressure Cooling	dB(A)	61	62	65
Air flow (Cooling/Heating)	m³/h	1860/1620	1920/1620	2160/2160
Dimensions (H x W x D)	mm	600 x 792 x 299	600 x 792 x 299	736 x 800 x 350
Weight	kg	37.5	37.5	51
Compressor		Rotary	Rotary	Rotary 2 cylinders

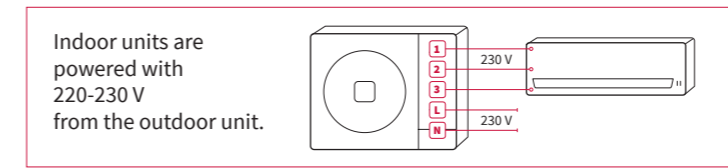
Refrigeration specifications	Unit	RAC-25WXE	RAC-35WXE	RAC-50WXE
Pipe diameter (Liq/gas)	Inch	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Initial refrigerant charge	kg	0.98	0.98	1.3
Pre-charged for	m	20	20	30
Minimum length	m	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	30
Maximum height difference (highest OU/lowest OU)	m	10	10	10
Refrigerant		R32	R32	R32

Electrical specifications	Unit	RAC-25WXE	RAC-35WXE	RAC-50WXE
Electrical power	V/Ph/Hz	230V/1Ph/50Hz ge	230V/1Ph/50Hz ge	230V/1Ph/50Hz ge
Current during operation (Cooling/Heating)	A	1.09 - 4.35/1.09 - 5.22	1.09 - 6.09/1.09 - 6.96 2.17 - 9.13/2.17 - 11.74	1.30 - 8.70/2.17 - 11.96
Cable diameter (EN 60 335-1)	mm²	1.50 x 2+T	1.50 x 2+T	2.50 x 2+T
Indoor/outdoor wiring section (shielded)	mm²	1.50 x 3+T	1.50 x 3+T	2.50 x 3+T

Price	Ref.	XRAK-25RXE	XRAK-35RXE	XRAK-50RXE

Environmental contribution	Ref.

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).



## Compatible controls and accessories

**Infrared remote control**  
RAR-6NE1  
Included

**Simplified wired control**  
SPX-RCDB  
Pre-tax price:

**Programmable wired control**  
SPX-WKT3  
Pre-tax price:

**H-Link box**  
PSC-6RAD  
Pre-tax price:

**Others\*:**  
- Multi-indoor units control box SPX-DST1 + SPX-WDST8M  
- Hi-Kumo Wifi gateway SPX-WFG01:  
- Hi-Box AHP-SMB-01 :  
- Hi-Kumo gateway for Hi-Box SPX-TAG01:  
- Dry contact kit only SPX-WDC3:  
- Fault report kit only SPX-WDC7 + HA-S100TSA

# Mokai

A concentrate of technology



Mokai

Wall

## Ultra compact

With an overall width of only 78 cm, it is the most compact unit on the market. It will blend in perfectly with your interior and can simply be installed above a door. (Fig.3)

## 4 Way Swing

Thanks to the vertical and horizontal flap movement, air distribution is more regular, making the room more comfortable. (Fig.1)

## Motion sensor

Technology saving you money thanks to the motion sensor which continuously analyses if anybody is in the room. If nobody is detected after 20 min, the temperature setting is moved by one degree and by a further degree after 40 min. (Fig.2)

## Compatible with the Hi Kumo remote control

This application allows you to turn the unit on or off, raise or lower the temperature or set the timer from wherever you may be around the world. All you need is a smartphone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

## FrostWash Technology

The Mokai was designed to provide effective air purification throughout the year with its exclusive and innovative function: FrostWash. It automatically and regularly cleans the heat exchanger for the distribution of clean and pure air.

## Silent operation

Enjoy complete comfort without even noticing that the indoor unit is on, thanks to its low sound level of only 20 dB(A)\*.

\*For RAK-25RPE in very low speed ventilation

Fig. 1

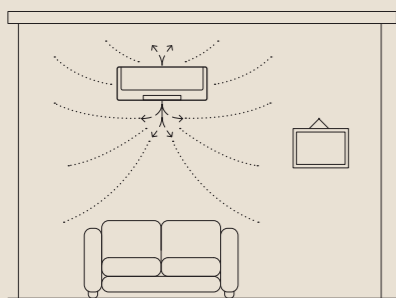


Fig. 2

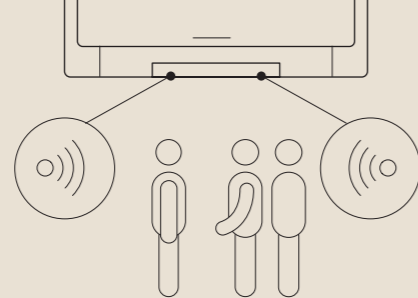
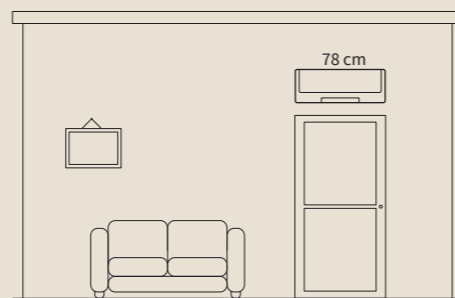
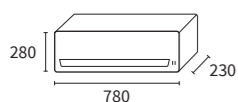


Fig. 3

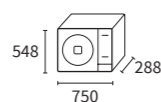


### Indoor units

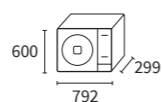


RAK-18RPE  
RAK-25RPE  
RAK-35RPE  
RAK-42RPE  
RAK-50RPE

### Outdoor units



RAC-18WPE  
RAC-25WPE  
RAC-35WPE



RAC-42WPE  
RAC-50WPE

Discover Mokai



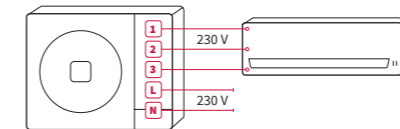
\*20 dB(A) acoustic pressure at low air delivery speed.

# Mokai

Cooling performances	Unit	1.8KW	2.5KW	3.5KW	4.2KW	5KW
Cooling Capacity (min-max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)
Absorbed capacity Cooling (min-max)	kW	<b>0.419 (0.25 - 1.01)</b>	<b>0.549 (0.25 - 1.29)</b>	<b>0.941 (0.25 - 1.46)</b>	<b>1.120 (0.30 - 1.70)</b>	<b>1.471 (0.30 - 2.10)</b>
EER		4.77	4.55	3.72	3.75	3.40
Energy class Cooling		A+++	A+++	A+++	A++	A++
SEER (medium climate)		8.50	8.50	7.80	7.50	7.35
Guaranteed performances Cooling	°C	-10°C/+ 43°C	-10°C/+ 43°C	-10°C/+ 43°C	-10°C/+ 43°C	-10°C/+ 43°C
Heating performances	Unit	1.8KW	2.5KW	3.5KW	4.2KW	5KW
Heating Capacity (min-max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.7 - 6.00)	6.00 (2.2 - 7.30)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	2.30	3.00	3.40	3.80	4.10
Absorbed Heating Capacity (min-max)	kW	0.519 (0.25 - 0.97)	0.733 (0.25 - 1.50)	1.000 (0.25 - 1.70)	1.317 (0.50 - 2.10)	1.558 (0.50 - 2.75)
COP		4.82	4.64	4.20	4.10	3.85
Energy class Heating		A+++	A+++	A+++	A++	A++
SCOP (medium climate)		4.90	4.90	4.90	4.60	4.60
Guaranteed performances Heating	°C	-15°C/+ 21°C	-15°C/+ 21°C	-15°C/+ 21°C	-15°C/+ 21°C	-15°C/+ 21°C
Indoor Units	Unit	RAK-18RPE	RAK-25RPE	RAK-35RPE	RAK-42RPE	RAK-50RPE
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	21/24/33/37	22/24/33/40	25/26/36/43	25/28/39/46	25/28/39/46
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	19/22/33/38	20/23/34/41	26/27/36/44	27/31/39/46	25/28/39/46
Sound pressure Cooling	dB(A)	51	54	57	60	60
Air flow Cooling (Very low - Low - Medium - High)	m³/h	312/350/400/440	333/370/430/510	353/420/485/680	353/410/540/720	353/410/540/720
Dehumidification	l/h	1.2	1.4	1.6	1.8	2
Dimensions (H x W x D)	mm	280 x 780 x 230	280 x 780 x 230	280 x 780 x 230	280 x 780 x 230	280 x 780 x 230
Weight	kg	8.5	8.5	8.5	8.5	8.5
Controller		Infrared weekly (included)	Infrared weekly (included)	Infrared weekly (included)	Infrared weekly (included)	Infrared weekly (included)
Outdoor units	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	44	46	48	49	49
Sound pressure Cooling	dB(A)	58	60	61	63	63
Air flow (Cooling/Heating)	m³/h	1860/1620	1860/1620	1920/1620	2160/2160	2160 / 2160
Dimensions (H x W x D)	mm	548 x 750 x 288	548 x 750 x 288	548 x 750 x 288	600 x 792 x 299	600 x 792 x 299
Weight	kg	32.5	32.5	32.5	39	39
Compressor		Rotary	Rotary	Rotary	Rotary	Rotary
Refrigeration specifications	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Pipe diameter (Liq/gas)	Inch	1/4"/3/8"	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"
Initial refrigerant charge	kg	0.870	0.870	0.870	1.050	1.050
Pre-charged for	m	20	20	20	20	20
Minimum length	m	3	3	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	20/-	20/-	20/-
Maximum height difference (highest OU/lowest OU)	m	20/10	20/10	20/10	20/10	20/10
Refrigerant		R32	R32	R32	R32	R32
Electrical specifications	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Electrical power	V	220 - 230V	220 - 230V	220 - 230V	220 - 230V	220 - 230V
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Current during operation (Cooling/Heating)	A	1.09 - 4.39/1.09 - 4.22	1.09 - 5.61/1.09 - 6.52	1.09 - 6.35/1.09 - 7.39	1.30 - 7.39/2.17 - 8.70	1.30 - 8.70/2.17 - 11.96
Cable diameter (EN 60 335-1)	mm²	1.50 x 2+T	1.50 x 2+T	1.50 x 2+T	2.50 x 2+T	2.50 x 2+T
Indoor/outdoor wiring section (shielded)	mm²	1.50 x 3+T	1.50 x 3+T	1.50 x 3+T	2.50 x 3+T	2.50 x 3+T
	Ref.	XRAK-18RPE	XRAK-25RPE	XRAK-35RPE	XRAK-42RPE	XRAK-50RPE
Price						
Environmental contribution	Ref.					

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

Indoor units are powered with 220-230 V from the outdoor unit.



## Compatible controls and accessories



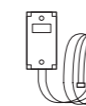
Infrared controller  
RAR-6NE1  
Included



Simplified wired control  
SPX-RCDB  
Pre-tax price:



Programmable wired control  
SPX-WKT3  
Pre-tax price:



H-Link box  
PSC-6RAD  
Pre-tax price:

### Others\*:

- Multi-indoor units control box SPX-DST1 + SPX-WDST8M
- Hi Kumo Wifi gateway SPX-WFG01:
- Hi-Box AHP-SMB-01 :
- Hi Kumo gateway for Hi-Box SPX-TAG01:
- Dry contact kit only SPX-WDC3:
- Fault report kit only SPX-WDC7 + HA-S100TSA

\* All prices are pre-tax

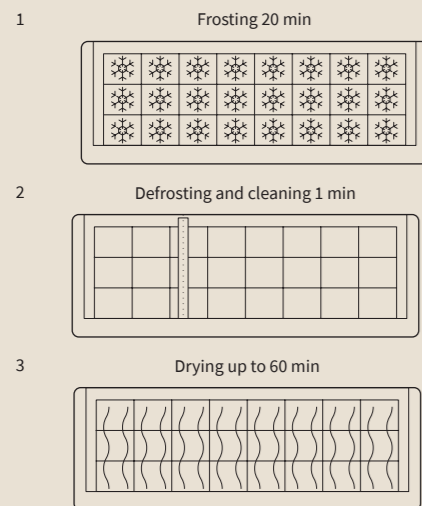
# Dodai 2

Efficiency and simplicity



## Exclusive and innovative technology: FrostWash\* for the distribution of clean air.

\*FrostWash steps



## Compatible with the Hi Kumo remote control

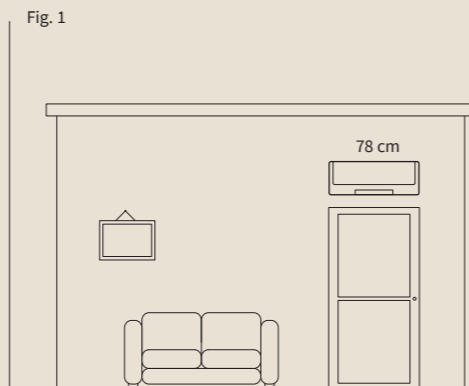
This application allows you to turn the unit on or off, raise or lower the temperature or set the timer from wherever you may be around the world. All you need is a smartphone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

## Maximum space savings

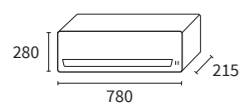
It's small enough for discrete installation. Above a door, for example, because it is only 780 mm wide. (Fig. 1)

## Silent operation

Enjoy complete comfort without even noticing that the indoor unit is on, thanks to its low sound level of only 19dB\*.

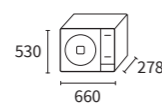


### Indoor units

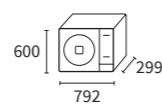


RAK-18REF  
RAK-25REF  
RAK-35REF  
RAK-50REF

### Outdoor units



RAC-18WEF  
RAC-25WEF  
RAC-35WEF



RAC-50WEF

Discover Dodai 2



\* See model.

# Dodai 2

Cooling performances	Unit	1.8KW	2.5KW	3.5KW	5KW
Cooling Capacity (min-max)	kW	2 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Absorbed capacity Cooling (min-max)	kW	<b>0.58 (0.25 - 1.01)</b>	<b>0.70 (0.25 - 1.29)</b>	<b>1.090 (0.25 - 1.46)</b>	<b>1.560 (0.50 - 2.10)</b>
EER		3.45	3.57	3.21	3.21
Energy class Cooling		A++	A++	A++	A++
SEER (medium climate)		6.10	6.10	6.10	6.10
Guaranteed performances Cooling	°C	-10°C/+ 43°C	-10°C/+ 43°C	-10°C/+ 43°C	-10°C/+ 43°C

Heating performances	Unit	1.8KW	2.5KW	3.5KW	5KW
Heating Capacity (min-max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	6.00 (2.2 - 7.30)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	2	2.5	3.00	4.00
Absorbed Heating Capacity (min-max)	kW	0.62 (0.25 - 0.97)	0.88 (0.25 - 1.25)	1.100 (0.25 - 1.70)	1.660 (0.50 - 2.75)
COP		4.03	3.86	3.82	3.61
Energy class Heating		A+	A+	A+	A+
SCOP (medium climate)		4.20	4.20	4.20	4.30
Guaranteed performances Heating	°C	-15°C/+ 21°C	-15°C/+ 21°C	-15°C/+ 21°C	-15°C/+ 21°C

Indoor Units	Unit	RAK-18REF	RAK-25REF	RAK-35REF	RAK-50REF
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	21/24/33/37	22/24/33/40	25/26/36/43	28/30/40/46
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	19/22/33/38	20/23/34/41	26/27/36/44	25/30/39/47
Sound pressure Cooling	dB(A)	51	54	57	60
Air flow Cooling (Very low - Low - Medium - High)	m³/h	312/350/400/440	333/370/430/510	333/400/485/600	333/450/600/700
Dehumidification	l/h	1.2	1.4	1.6	2
Dimensions (H x W x D)	mm	280 x 780 x 215	280 x 780 x 215	280 x 780 x 215	280 x 780 x 215
Weight	kg	7.7	7.7	7.7	8.2
Controller		Infrared (included)	Infrared (included)	Infrared (included)	Infrared (included)

Outdoor units	Unit	RAC-18WEF	RAC-25WEF	RAC-35WEF	RAC-50WEF
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	45	47	48	50
Sound pressure Cooling	dB(A)	59	61	62	64
Air flow (Cooling/Heating)	m³/h	1860/1620	1860/1620	1860/1620	2160/2160
Dimensions (H x W x D)	mm	530 x 660 x 278	530 x 660 x 278	530 x 660 x 278	600 x 792 x 299
Weight	kg	23.70	23.70	25.00	39.50
Compressor		Rotary	Rotary	Rotary	Rotary double twin

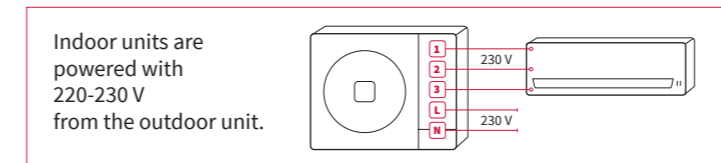
Refrigeration specifications	Unit	1.8KW	2.5KW	3.5KW	5KW
Pipe diameter (Liq/gas)	Inch	1/4"/3/8"	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Initial refrigerant charge	kg	0.53	0.53	0.70	0.93
Pre-charged for	m	20	20	20	20
Minimum length	m	3	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	20/-	20/-
Maximum height difference (highest OU/lowest OU)	m	20/10	20/10	20/10	20/10
Refrigerant		R32	R32	R32	R32

Electrical specifications	Unit	1.8KW	2.5KW	3.5KW	5KW
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Current during operation (Cooling/Heating)	A	1.09 - 4.39/1.09 - 4.22	1.09 - 5.61/1.09 - 5.43	1.09 - 6.35/1.09 - 7.39	2.17 - 9.13/2.17 - 11.96
Cable diameter (EN 60 335-1)	mm²	1.50x 2+T	1.50x 2+T	1.50x 2+T	2.50x 2+T
Indoor/outdoor wiring section (shielded)	mm²	1.50x 3+T	1.50x 3+T	1.50x 3+T	2.50x 3+T

Price	Ref.	XRAK-18REF	XRAK-25REF	XRAK-35REF	XRAK-50REF

Environmental contribution	Ref.

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).



## Compatible controls and accessories

Infrared controller  
RAR-7PE1  
Included

Simplified wired control  
SPX-RCDB  
Pre-tax price:

Programmable wired control  
SPX-WKT3  
Pre-tax price:

H-Link box  
PSC-6RAD  
Pre-tax price:

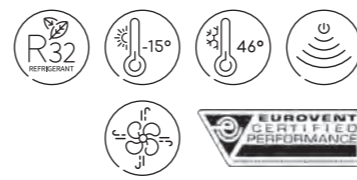
### Others\*:

- Multi-indoor units control box SPX-DST1 + SPX-WDST8M
- Hi Kumo Wifi gateway SPX-WFG01:
- Hi-Box AHP-SMB-01 :
- Hi Kumo gateway for Hi-Box SPX-TAG01:
- Dry contact kit only SPX-WDC3:
- Fault report kit only SPX-WDC7 + HA-S100TSA

\* All prices are pre-tax

# Light Commercial Wall

A range of functions to adapt to all configurations



## 4 Way Swing

Thanks to the vertical and horizontal flap movement, air distribution is more regular, making the room more comfortable. (Fig. 1)

## Motion sensor

Technology saving you money thanks to the motion sensor which continuously analyses if anybody is in the room. If nobody is detected after 20 min, the temperature setting is moved by one degree and by a further degree after 40 min. (Fig. 2)

## Improved comfort

The SPX-WKT3 wired controller can be used to select the location where the temperature setting should be measured (on the controller, the recirculation or with the average of both values). This feature will improve the comfort in your room.

## Flexible installation

The indoor unit can be installed in any location within the building because refrigerant pipe lengths go up to 30 m between the indoor unit and the outdoor unit. The height difference between the two can also go up to 20 m.

## Compatible with the Hi Kumo remote control

This application allows you to turn the unit on or off, raise or lower the temperature or set the timer from wherever you may be around the world. All you need is a smartphone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

## Compact indoor unit

The indoor unit is only 900 mm wide so it can be installed anywhere without interfering with other elements.

Fig. 1

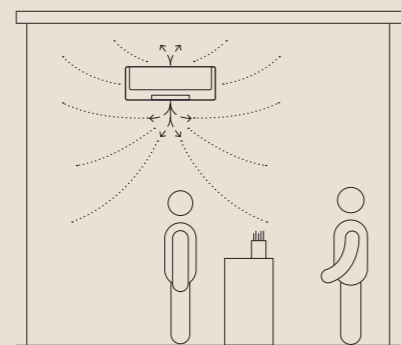
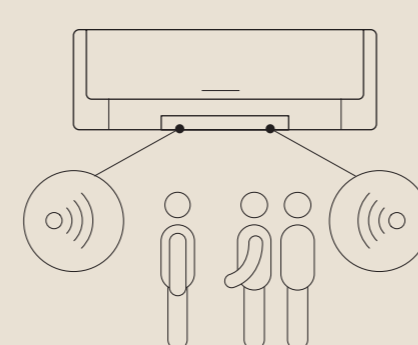
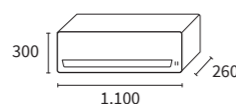
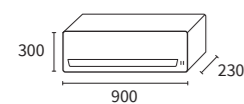


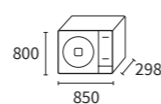
Fig. 2



### Indoor units



### Outdoor units



RAK-50RPE1  
RAK-60RPE

RAK-70PPD

RAC-50NPE  
RAC-60NPE

RAC-70NPD

# Light Commercial Wall

Cooling performances	Unit	5KW	6KW	7KW
Cooling Capacity (min-max)	kW	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)	7.00 (1.50 - 8.00)
Absorbed capacity Cooling (min-max)	kW	1.42 (0.30 - 2.500)	1.71 (0.30 - 2.65)	2.00 (0.50 - 2.70)
EER		3.52	3.51	3.50
Energy class Cooling		A++	A++	A++
SEER (medium climate)		7.30	6.50	7.00
Guaranteed performances Cooling	°C	-15°C/+46°C	-15°C/+46°C	-15°C/+46°C
Heating performances	Unit	5KW	6KW	7KW
Heating Capacity (min-max)	kW	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)	8.00 (1.50 - 8.50)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	4.20	4.80	5.80
Absorbed Heating Capacity (min-max)	kW	1.50 (0.30 - 2.650)	1.84 (0.30 - 2.65)	2.10 (0.50 - 2.80)
COP		4.00	3.80	3.81
Energy class Heating		A++	A+	A++
SCOP (medium climate)		4.60	4.20	4.60
Guaranteed performances Heating	°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C
Indoor Units	Unit	RAK-50RPE1	RAK-60RPE	RAK-70PPD
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	26/33/39/47	30/33/42/48	30/35/42/47
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	26/33/39/47	33/34/42/49	30/36/42/47
Sound pressure Cooling	dB(A)	60	60	60
Air flow Cooling (Very low - Low - Medium - High)	m³/h	310/410/570/720	310/410/570/720	510/630/870/1020
Dehumidification	l/h	2.8	2.8	4.8
Dimensions (H x W x D)	mm	300 x 900 x 230	300 x 900 x 230	300 x 1100 x 260
Weight	kg	11.5	11.5	15.0
Controller		Not included	Not included	Not included
Outdoor units	Unit	RAC-50NPE	RAC-60NPE	RAC-70NPD
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	50	50	52
Sound pressure Cooling	dB(A)	65	65	67
Air flow (Cooling/Heating)	m³/h	2160/2160	2160/2160	2700/2700
Dimensions (H x W x D)	mm	750 x 850 x 298	750 x 850 x 298	800 x 850 x 298
Weight	kg	50	50	52
Compressor		Rotary	Rotary	Rotary
Refrigeration specifications	Unit	RAC-50NPE	RAC-60NPE	RAC-70NPD
Pipe diameter (Liq/gas)	Inch	1/4"/1/2"	1/4"/1/2"	1/4"/5/8"
Initial refrigerant charge	kg	1.5	1.5	1.6
Pre-charged for	m	30	30	30
Minimum length	m	3	3	3
Maximum length/Additional refrigerant	m/g/m	30 / -	30/-	30/-
Maximum height difference (highest OU/lowest OU)	m	20/20	20/20	20/20
Refrigerant		R32	R32	R32
Electrical specifications	Unit	RAC-50NPE	RAC-60NPE	RAC-70NPD
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Current during operation (Cooling/Heating)	A	5.98-6.52/6.31-6.89	7.20-7.85/7.74-8.45	8.42-9.18 / 8.84-9.64
Cable diameter (EN 60 335-1)	mm²	2.50 x 2+T	2.50 x 2+T	2.50 x 2+T
Indoor/outdoor wiring section (shielded)	mm²	1.50 x 3+T	1.50 x 3+T	1.50 x 3+T

Delivered without controller

	Ref.	XRAK-50RPE1	XRAK-60RPE	XRAK-70PPD
Price				

Environmental contribution	Ref.

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

## Compatible controls and accessories

**Infrared controller**  
SPX-RCKA2  
Pre-tax price:

**Simplified wired control**  
SPX-RCDB  
Pre-tax price:

**Programmable wired control**  
SPX-WKT3  
Pre-tax price:

**H-Link box**  
PSC-6RAD  
Pre-tax price:

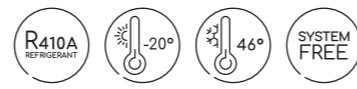
- Others\*:**
- Multi-indoor units control box SPX-DST1 + SPX-WDST8M
  - Hi Kumo Wifi gateway SPX-WFG01:
  - Hi-Box AHP-SMB-01:
  - Hi Kumo gateway for Hi-Box SPX-TAG01:
  - Dry contact kit only SPX-WDC3:

\* All prices are pre-tax



# Micro VRF IVX Comfort

A compact VRF solution to meet larger technical constraints



## Optimum air distribution

The 4 ventilation speeds adapt the air flow for greater comfort in each room.

## Easy and discreet integration

Compact and lightweight, our units can be installed discreetly above a door. Their new design brings improvements including replacing the turbine without removing the exchanger and easier access to the filters.

## Simplify control

Our wall units are compatible with all types of controllers and come with an infrared receiver as standard.

## Wide operating ranges

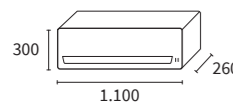
This equipment can operate in heating mode up to -20°C and up to 46°C in cooling mode. A heating-only mode is also available.

## Compact

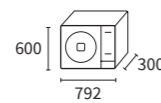
The outdoor units are exceptionally compact, taking up just 0.23 m<sup>3</sup> of floorspace.

### Indoor units

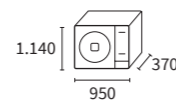
### Outdoor units



RPK-2.0 FSN4M  
RPK-2.5 FSN4M  
RPK-3.0 FSN4M  
RPK-4.0 FSN4M



RAS-2HVNP1  
RAS-2.5HVNP1  
RAS-3HVNC1



RAS-4H(V)NC1E

## Wall Comfort

Indoor units	Unit	RPK-2.0FSN4M	RPK-2.5FSN4M	RPK-3.0FSN4M	RPK-4.0FSN4M
Cooling Capacity (min-max)	kW	5.00 (2.20 - 5.60)	5.60 (2.20 - 6.30)	7.10 (3.20 - 8.00)	10.00 (4.50 - 11.20)
Heating Capacity (min-max)	kW	5.60 (2.20 - 7.10)	6.30 (2.20 - 8.00)	8.00 (3.50 - 10.60)	11.20 (5.00 - 14.00)
Capacity at -7°C <sup>(1)</sup>	kW	4.90	5.80	6.30	10.10
Cooling capacity SET FREE	kW	5.60	7.10	8.00	11.20
Heating capacity SET FREE	kW	6.30	8.50	9.00	12.50
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	31/34/37/40	35/38/42/45	35/40/44/47	39/44/48/51
Sound power	dB(A)	47 - 50 - 53 - 55	51 - 54 - 58 - 60	51 - 56 - 60 - 63	54 - 60 - 64 - 65
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	570/660/780/870	720/840/990/1110	750/930/1050/1200	870/1050/1200/1380
Condensate pump included				No	
Diameter of refriger. pipes (Liq/Gas)	inch	1/4 / 1/2		3/8 / 5/8	
Condensate pipe diameter (out)	mm			20	
Dimensions (H x W x D)	mm		300 x 1100 x 260		
Weight	kg	14.5		15	
Electrical power			230V/1Ph/50Hz		
Cable diameter (EN 60 335-1) <sup>(3)</sup>	mm <sup>2</sup>		3 x 1.5		
Controller				Infrared (included)	

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs.  
<sup>(2)</sup> The sound pressure measurements were taken according to the applicable standards used as part of the Eurovent program.  
<sup>(3)</sup> Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.

Outdoor units	Unit	RAS-2HVNP1	RAS-2.5HVNP1	RAS-3HVNC1	RAS-4H(V)NC1E
Absorbed capacity Cooling	kW	1.55	1.69	2.64	4.65
Absorbed Heating Capacity	kW	1.51	1.68	2.73	3.56
EER/COP		3.23/3.70	3.31/3.75	2.69/2.93	2.15/3.15
Energy class (Cooling/Heating)		A+/A++	A/A	D/D	E/D
SEER/SCOP (medium climate)		5.47/4.01	5.24/4.14	5.35/3.80	5.56/3.83
Seasonal energy class (Cooling/Heating)			A/A+		A/A
Sound pressure Cooling (night mode) <sup>(2)</sup>	dB(A)	44 (42)	45 (43)	48 (46)	52 (50)
Sound power	dB(A)	62	63	66	68
Weight	kg		43	44	79
Dimensions (H x W x D)	mm		600 x 792 x 300		1140 x 950 x 370
Electrical power			1~ 230V 50Hz		3N~ 400V 50Hz (1~ 230V 50Hz)
Maximum current	A	13.8	15.8	17.8	15.5 (28.5)
Cable diameter (EN 60 335-1) <sup>(1)</sup>	mm <sup>2</sup>	3 x 2.50		3 x 4.00	5 x 4.00 (3 x 6.00)
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>			2 x 0.75	
Pipe diameter (Liq/gas)	inch		1/4 - 1/2*		3/8 - 5/8
Maximum length/Additional refrigerant	m/g/m		50/30	50/40	70/40
Initial refrigerant charge	kg		1.6	1.9	3.2
Pre-charged for	m		30	20	30
Air flow (Cooling/Heating)	m <sup>3</sup> /h		2436	2682	3720
Maximum height difference (highest OU/lowest OU)	m			30/20	
Guaranteed performance Cooling*/Heating	°C			(OPT) -15°C/+46°C (DB)//-20°C/+15°C (WB)	
Refrigerant				R410A	
Compressor				SCROLL	

<sup>(1)</sup> Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).  
 \*The option must be enabled to ensure the cold mode at -15°C.

	Ref.	X-RPK-2.0HVNP1	X-RPK-2.5HVNP1	X-RPK-3.0HVNC1	X-RPK-4.0H(V)NC1E
Price for the Single-phase/Three-phase kit					
	Ref.				

The kit includes: the wall unit, the infrared receiver, PC-AWR infrared controller, the outdoor unit.

## Compatible controls and accessories (see DRV Controls tab)

<p><b>Simplified wired control</b> PC-ARH1E</p>	<p><b>Infrared controller</b> Included PC-AWR</p>	<p><b>User-friendly multifunction wired control</b> PC-ARFP1E</p>
<p><b>Remote sensor</b> THM-R2AE</p>	<p><b>Input/output configurable contact connectors</b> PCC-1A</p>	<p><b>Condensate removal kit</b> DBS-26 (IVX Comfort 4HP models) DBS-12L (IVX Comfort 2/2.5/3HP models)</p>

Ideal for residential applications, the Shirokuma console is able to reach comfortable heating and cooling temperatures in a few minutes. Its elegant and simple design means it fits in with all interiors.



# Console

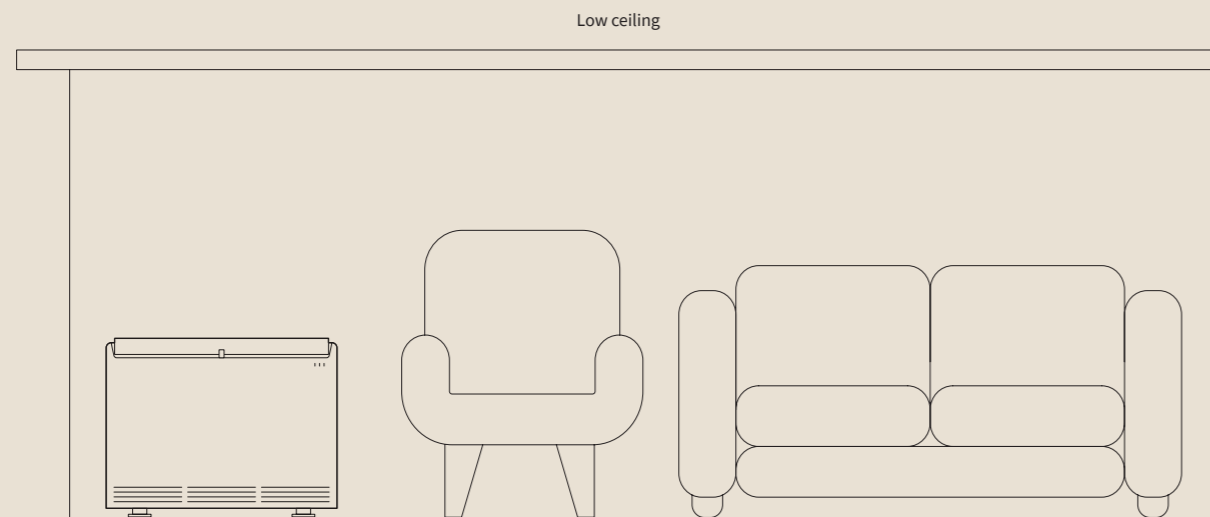


# 1 A unique design to fit in with all types of interiors



Its design means the unit is as unobtrusive as possible and can even be installed in the wall.

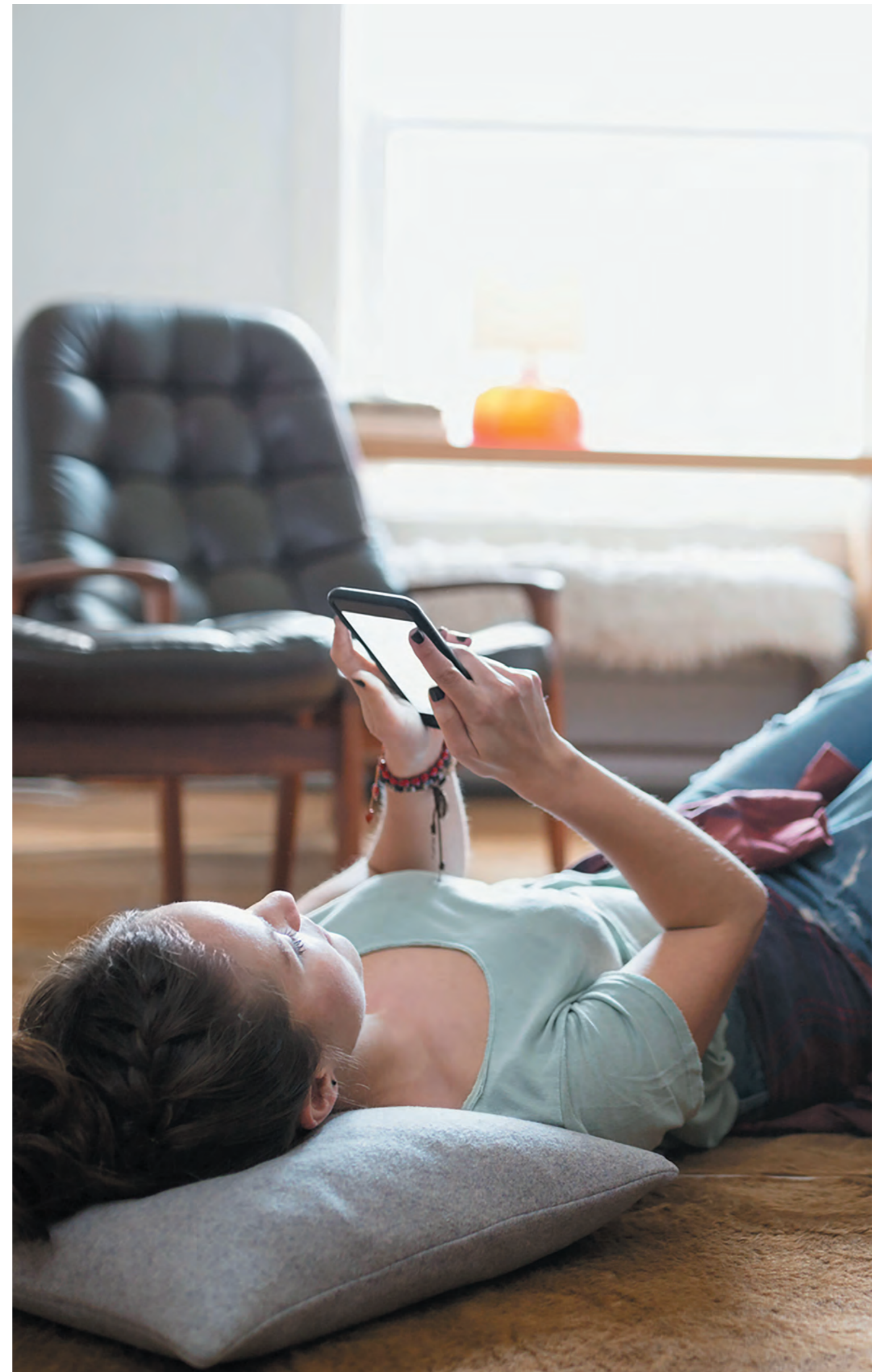
# 2 The ideal unit for smaller spaces



With their compact design, consoles are particularly suited for installation in smaller rooms.

# 3 Greater heating comfort

The distribution of hot air towards the lower part of the room means the temperature setting is reached quickly and constantly.



# Shirokuma console

High-performance equipment with unique design



### Extended air flow

Thanks to a larger **dynamic air flow**, air can reach all parts of the room. The room is air-conditioned (heating or cool air) at the touch of a button on the controller. (Fig. 1)

### Flexibility with the Multizone range

The Shirokuma console indoor unit is compatible with all Multi-split outdoor units. This means that several indoor units can be installed in different rooms with the same outdoor unit.

### High performance

The console's energy class is A+++.  
Energy savings - guaranteed!

### Control options

The console comes with a wireless controller as standard. It is also compatible with the wired controller SPX-WKT3 with hourly programming.

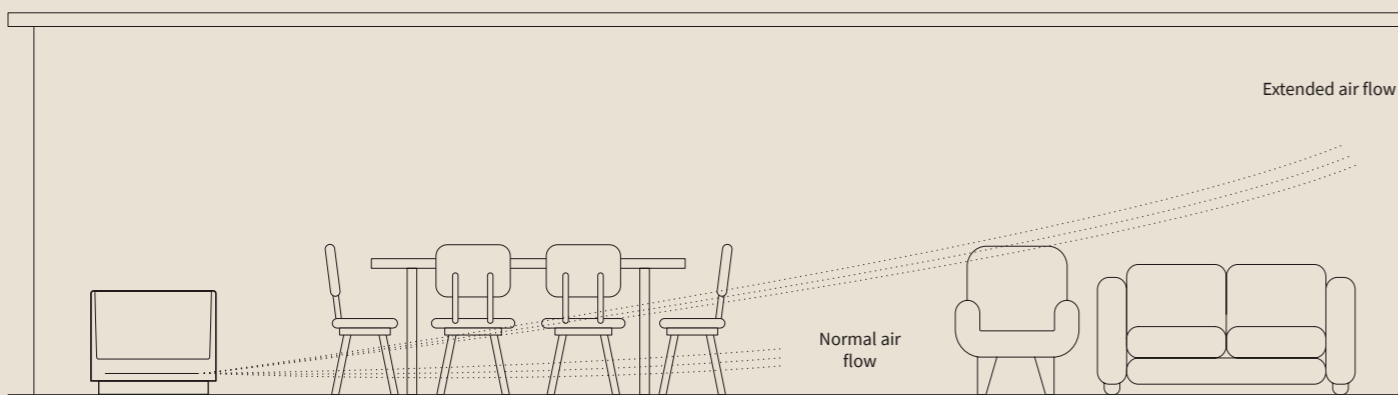
### Flexible installation

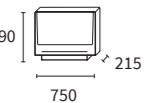

Wall-mounted or floor standing on base (supplied)

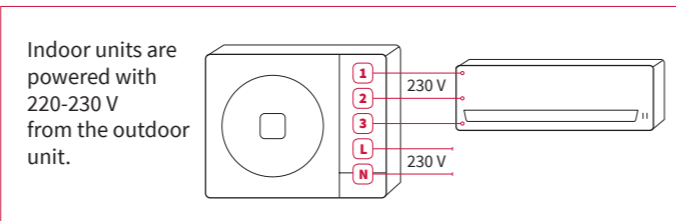
### Compatible with Hi Kumo

The entire Hitachi residential range is compatible with the Hi Kumo system which can control equipment **from any mobile device** which acts as a controller.

Fig. 1



Indoor units	Outdoor units
 RAF-25RXE RAF-35RXE RAF-50RXE	 RAC-25FXE RAC-35FXE RAC-50FXE



# Shirokuma console

Cooling performances	Unit	2.5KW	3.5KW	5KW
Capacity Cooling (min-max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (0.90 - 5.20)
Absorbed capacity Cooling (min-max)	kW	<b>0.54 (0.25 - 1.00)</b>	<b>0.93 (0.25 - 1.38)</b>	<b>1.39 (0.5 - 2.10)</b>
EER		4.65	3.75	3.6
Energy class Cooling		A+++	A++	A++
SEER (medium climate)		8.50	8.20	6.80
Guaranteed performances Cooling	°C	-10°C/+46°C	-10°C/+46°C	-10°C/+46°C

Heating performances	Unit	2.5KW	3.5KW	5KW
Capacity Heating (min-max)	kW	3.40 (0.90 - 4.40)	4.50 (0.90 - 5.00)	6.00 (0.90 - 8.10)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	3.40	4.20	5.50
Absorbed capacity Heating (min-max)	kW	0.76 (0.25 - 1.20)	1.15 (0.25 - 1.5)	1.58 (0.5 - 2.70)
COP		4.50	3.90	3.80
Energy class Heating		A++	A++	A+
SCOP (medium climate)		4.60	4.60	4.30
Guaranteed performances Heating	°C	-20°C/+24°C	-20°C/+24°C	-20°C/+24°C

Indoor Units	Unit	RAF-25RXE	RAF-35RXE	RAF-50RXE
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	20/26/31/38	20/26/31/39	22/29/36/43
Sound pressure Cooling	dB(A)	52	52	56
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	270/390/510/630	270/390/510/630	300/450/540/700
Dehumidification	l/h	1.4	1.9	2
Dimensions (H x W x D)	mm	590 x 750 x 215	590 x 750 x 215	590 x 750 x 215
Weight	kg	15	15	15
Controller		Weekly wireless controller (included)	Weekly wireless controller (included)	Weekly wireless controller (included)

Outdoor units	Unit	RAC-25FXE	RAC-35FXE	RAC-50FXE
Sound pressure Cooling (night mode) <sup>(2)</sup>	dB(A)	45	39	43
Sound pressure Cooling	dB(A)	59	61	65
Air flow (Cooling/Heating)	m <sup>3</sup> /h	1860/1620	1920/1620	2160/2160
Dimensions (H x W x D)	mm	600 x 792 x 299	600 x 792 x 299	736 x 800 x 350
Weight	kg	37	37	51
Compressor		Scroll	Scroll	Rotary


Refrigeration specifications	Unit	RAC-25FXE	RAC-35FXE	RAC-50FXE
Pipe diameter (Liq/gas)	Inch	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Condensate pipe diameter (out)	mm	16	16	16
Initial refrigerant charge	kg	0.98	0.98	1.2
Pre-charged for	m	20	20	30
Minimum length	m	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	30/-
Maximum height difference (highest OU/lowest OU)	m	10/10	10/10	10/10
Refrigerant		R32	R32	R32


Electrical specifications	Unit	RAC-25FXE	RAC-35FXE	RAC-50FXE
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Maximum current	A	5	7	12
Cable diameter (EN 60 335-1)	mm <sup>2</sup>	2 x 1.50+T	2 x 1.50+T	2 x 2.50+T
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>	3 x 1.50+T	3 x 1.50+T	3 x 2.50+T
	Ref.	<b>XRAF-25RXE</b>	<b>XRAF-35RXE</b>	<b>XRAF-50RXE</b>
Kit price	(pre-tax)			


Ref.	Unit	RAC-25FXE	RAC-35FXE	RAC-50FXE
	(pre-tax)			

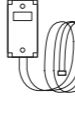
<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

## Compatible controls and accessories

 **Wireless controller**  
 RAR-6NE4  
 Included

 **Simplified wired controller**  
 SPX-RCDB  
**Pre-tax price:**

 **Programmable wired controller**  
 SPX-WKT3  
**Pre-tax price:**

 **H-Link box**  
 PSC-6RAD  
**Pre-tax price:**

- Others\*:**
- Multi-indoor units control box SPX-DST1 (€ 36) + SPX-WDST8M (€ 21)
  - Hi Kumo Wifi gateway SPX-WFG01:
  - Hi-Box AHP-SMB-01 :
  - Hi Kumo gateway for Hi-Box SPX-TAG01:
  - Dry contact kit only SPX-WDC3:
  - Leak sensor SPX-RAFGLS :

A ducted unit combines comfort and design. With this type of installation, the grills are the only elements visible in the room, allowing for harmonious integration with all types of designs.

Combined with a "zoning solution", the ducted unit can provide heating and cooling for different rooms from a single indoor unit.

This solution is ideally suited for commercial buildings, but also residential applications, wherever discretion is important. Our large range available in both R410A and R32 means there is something for every project.



# Ducted



# Quick selection table

Light commercial ducted



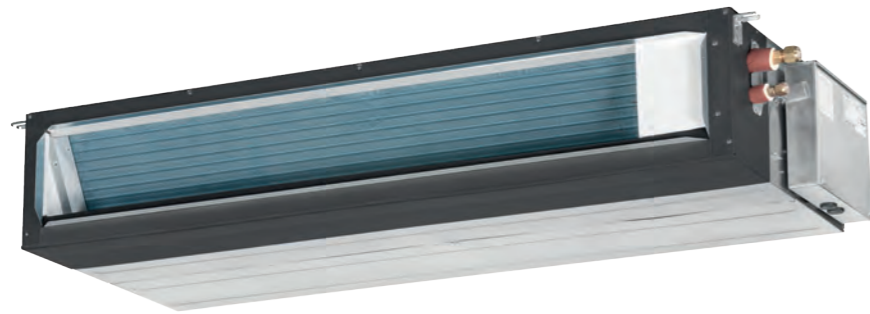
Primary R32



Primary R410A



Micro VRF IVX Comfort



Ducted

Ducted

	Residential and small commercial applications	Medium commercial applications		Residential and medium commercial applications
		Generic applications		Technical applications
	Light commercial ducted	Primary R32	Primary R410A	Micro VRF IVX Comfort
Refrigerant	R32	R32	R410A	R410A
Type of Heat pump	Monosplits	Monosplits	Monosplits	Monosplits
Capacity cooling (kW)	2.5 3.5 5.0 6.0 7.0	7.1 8.8 10.5 12.5 14.0 17.0	6.8 10.1 12.0 13.4 15.7	5.0 5.6 7.1 10.0 12.5 14.0 20.0 25.0
Power supply	Single-phase	Single-phase (3/3.5/4/5/6HP) Three-phase (5/6/6.5 HP)	Single-phase (3/4 HP) Three-phase (5/6/6.5 HP)	Single-phase (up to 6 HP) Three-phase (4 to 10 HP)
COP up to	4.0	3.46	3.46	4.03
Heating/Cooling	A+/A++	A+/A++	A+/A++	A+/A++
Heating down to	-15 °C	-15 °C	-15 °C	-20 °C
Cooling up to	+46 °C	+48 °C	+48 °C	+46 °C
Maximum static pressure up to	150 Pa	120 Pa	120 Pa	220 Pa
Length/Height difference max. (m) OU-IU up to	30/20	50/30	50/30	100/30

# Light commercial ducted

The high-performance and discreet luxury solution

Light commercial ducted



## Installation in new builds with a VMC HYGRO B

Hitachi were validated with the CSTB and obtained the ducted ATEC so this solution can now be installed in new builds with a VMC HYGRO B ventilation system.

## Condensate pump included

The ducted unit has its own condensate pump for automatic condensate removal, so you don't have to worry about adding additional units to the installation. (Fig. 1)

## High static pressure

The ducted unit has a pressure of 150 Pa so that you can install it in the location of your choice. This way, users don't have to worry about a sufficient quantity of air arriving in the room which is furthest away.

## Flexible installation

The indoor unit can be installed in any location within the building because refrigerant pipe lengths go up to 30 m between the indoor unit and the outdoor unit. The height difference between the two can also go up to 20 m.

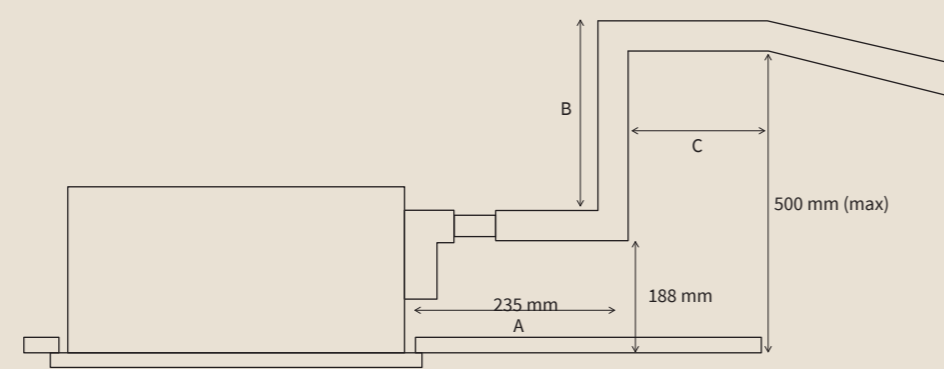
## Compatible with the Hi Kumo wireless controller

This application allows you to turn the unit on or off, raise or lower the temperature or set the timer from wherever you may be around the world. All you need is a smartphone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

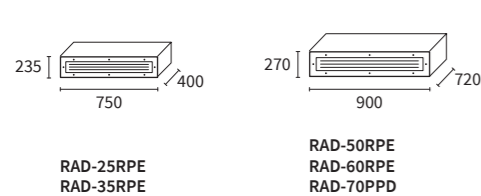
## Airzone compatibility

With a single ducted unit, users can control up to 6 rooms individually using Airzone's motorized plenums which fit directly to the Hitachi units. This compatibility means you can use the full Airzone ambient control range. (See P. 140).

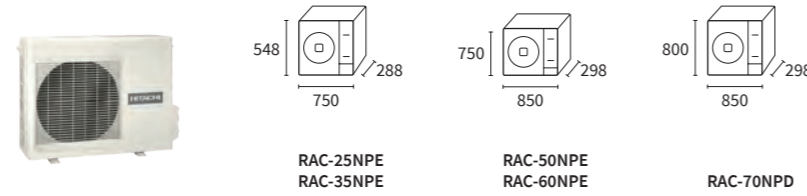
Fig. 1



### Indoor units



### Outdoor units



# Light commercial ducted

Ducted

Cooling performances	Unit	2.5KW	3.5KW	5KW	6KW	7KW
Capacity Cooling (min-max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)	7.00 (1.50 - 8.00)
Absorbed capacity Cooling (min-max)	kW	0.595 (0.25 - 1.29)	0.945 (0.25 - 1.46)	1.42 (0.30 - 2.50)	1.71 (0.30 - 2.60)	2.11 (0.50 - 2.70)
EER		4.20	3.70	3.52	3.51	3.32
Energy class Cooling		A++	A++	A++	A++	A++
SEER (medium climate)		6.20	6.50	6.20	6.20	6.10
Guaranteed performances Cooling	°C	-10°C/+43°C	-15°C/+46°C	-15°C/+46°C	-15°C/+46°C	-15°C/+46°C
Heating performances						
Capacity Heating (min-max)	kW	3.50 (0.90 - 5.50)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)	8.00 (1.50 - 8.50)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	2.50	3.20	4.20	5.00	5.50
Absorbed capacity Heating (min-max)	kW	0.875 (0.25 - 1.50)	1.260 (0.25 - 1.92)	1.57 (0.30 - 2.65)	1.84 (0.30 - 2.65)	2.20 (0.50 - 2.80)
COP		4.00	3.81	3.82	3.80	3.64
Energy class Heating		A+	A+	A+	A+	A+
SCOP (medium climate)		4.30	4.30	4.00	4.00	4.00
Guaranteed performances Heating	°C	-15°C/+21°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C
Indoor Units						
		<b>RAD-25RPE</b>	<b>RAD-35RPE</b>	<b>RAD-50RPE</b>	<b>RAD-60RPE</b>	<b>RAD-70PPD</b>
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	30/33/37/41	30/33/37/41	29/32/35/39	29/32/35/39	29/32/35/39
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	30/34/38/42	30/34/38/42	29/32/35/40	29/32/35/40	29/32/35/40
Sound pressure Cooling	dB(A)	57	57	53	53	53
Static pressure (Low - Medium - High)	Pa	*/*/70	*/*/70	50/100/150	50/100/150	50/100/150
Air flow Cooling (Very low - Low - Medium - High)	m³/h	330/390/450/510	330/390/450/510	350/540/800/1140	350/540/800/1140	350/540/800/1140
Dehumidification	l/h	1.4	1.6	2.8	2.8	4.8
Dimensions (H x W x D)	mm	235 x 750 x 400	235 x 750 x 400	270 x 900 x 720	270 x 900 x 720	270 x 900 x 720
Weight	kg	16	16	35	35	35
Condensate pump		Included	Included	Included	Included	Included
Controller		Not included	Not included	Not included	Not included	Not included
Outdoor units						
	Unit	<b>RAC-25NPE</b>	<b>RAC-35NPE</b>	<b>RAC-50NPE</b>	<b>RAC-60NPE</b>	<b>RAC-70NPD</b>
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	48	48	50	50	50
Sound pressure Cooling	dB(A)	61	61	65	65	65
Air flow (Cooling/Heating)	m³/h	1920/1620	1920/1620	2160/2160	2160/2160	2700/2700
Dimensions (H x W x D)	mm	548 x 750 x 288	548 x 750 x 288	750 x 850 x 298	750 x 850 x 298	800 x 850 x 298
Weight	kg	32.5	32.5	50	50	52
Compressor		Rotary	Rotary	Rotary	Rotary	Rotary
Refrigeration specifications						
Pipe diameter (Liq/gas)	inch	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"	1/4"/5/8"
Initial refrigerant charge	kg	0.86	0.86	1.50	1.50	1.60
Pre-charged for	m	20	20	30	30	30
Minimum length	m	3	3	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	30/-	30/-	30/-
Maximum height difference (highest OU/lowest OU)	m	10/10	10/10	20/20	20/20	20/20
Refrigerant		R32	R32	R32	R32	R32
Electrical specifications						
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Maximum current	A	15	15	10	10	10
Cable diameter (EN 60 335-1)	mm²	2 x 1.50+T	2 x 1.50+T	2 x 2.50+T	2 x 2.50+T	2 x 2.50+T
Indoor/outdoor wiring section (shielded)	mm²	3 x 1.50+T	3 x 1.50+T	3 x 1.50+T	3 x 1.50+T	3 x 1.50+T

Delivered without controller

Single zone wired	XRAD-25RPE	XRAD-35RPE	XRAD-50RPE	XRAD-60RPE	XRAD-70PPD
Price (pre-tax)					

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hi-ToolKit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).  
 \* Information pending.

Reference	Description	Length	Height	Depth	Compatibility	Number of connections	Pre-tax price
PIM1SOURADNH	PLENUM ISOLATED M1 2XD200 AIR DELIVERY	720	200	300+ 50	RAD-18QPE*/RAD 25-35RPE	2 x 200	
PIM1REPRADNH	PLENUM ISOLATED M1 2XD200 RETURN	655	205	200+ 50	RAD-18QPE/RAD 25-35RPE	2 x 200	
PIM1REPRADNHF	PLENUM ISOLATED M1 FilterHolder 2XD200 RETURN	655	205	200+ 50	RAD-18QPE/RAD 25-35RPE	2 x 200	
PIM1SOURADDH	PLENUM ISOLATED M1 3XD200 AIR DELIVERY	810	225	250+ 50	RAD-50-60RPE/RAD-70PPD	3 x 200	
PIM1REPRADDH	PLENUM ISOLATED M1 2XD200 RETURN	820	225	200+ 50	RAD-50-60RPE/RAD-70PPD	2 x 200	

\* Available in multi only

## Compatible controls and accessories

**Programmable wired control**  
SPX-WKT3  
Pre-tax price:

**Wireless controller**  
SPX-RCKA1  
Pre-tax price:

**Simplified wired controller**  
SPX-RCDA  
Pre-tax price:

**Others\*\*:**  
- Hi-Link box - PSC-6RAD:  
- Multi-indoor units control box SPX-DST1 + SPX-WDST8M  
- Hi Kumo Wifi gateway SPX-WFG01:  
- Hi-Box AHP-SMB-01 :

- Hi Kumo gateway for Hi-Box SPX-TAG01:  
- Dry contact kit only SPX-WDC2:  
- Remote sensor SPX-RTH1 :

\*\* All prices are pre-tax

# Primary R32

R32 ecofriendly option for your commercial applications



Sizes 5 and 6 HP Single-phase available from October 2020.



Primary R32

## Integrated condensate pump

With a discharge head of 700 mm, these ducted units are easily integrated in most projects.

## Flexible air circulation from below or behind

This solution offers genuine installation flexibility depending on the type of configuration. Equipment air circulation can be modified from below or behind. This does not require a change of equipment, simply an adjustment of the static pressure. (Fig. 1)

## Wide static pressure adjustment range

Wide static pressure range (up to 120 Pa) for long ducts and multizone applications means more practical and more flexible installation.

## Long refrigerant links and large height differences

With up to 50 m of ducts for an installation up to 30 m high, the Primary range offers great flexibility when it comes to installation configuration. (Fig.2)

## Efficiency guaranteed

The Primary ducted range performances are guaranteed in cooling and heating until an outside temperature of -15°C. The DC Inverter technology precisely adjusts the capacity required to heat residential or commercial premises and ensures the installation's comfort and durability.

## Automatic reboot after a power outage

When power returns after an outage, all pre-configurations are maintained and air-conditioning operates based on previous configuration.

Fig. 1

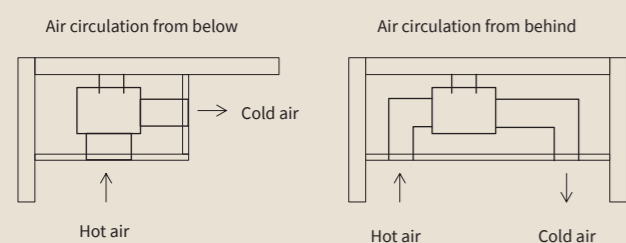
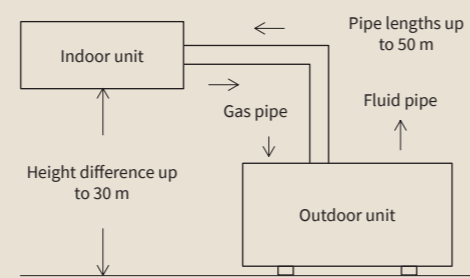
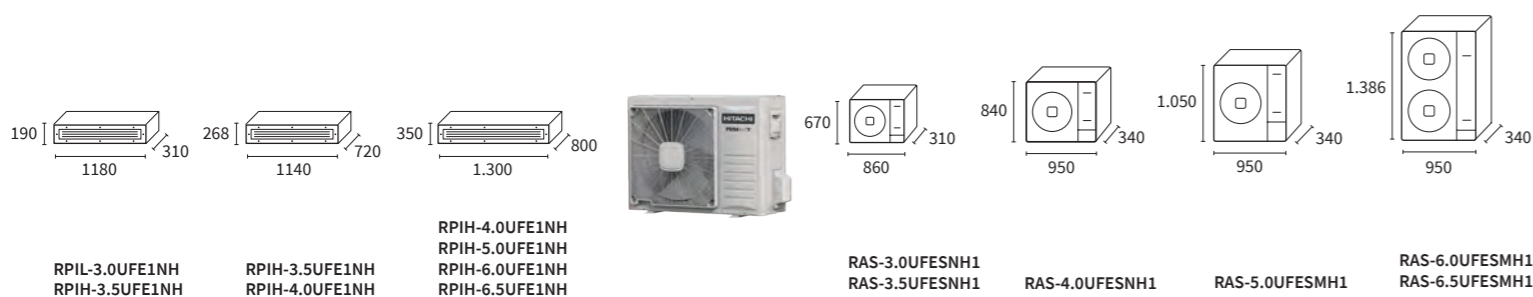


Fig. 2



Indoor units

Outdoor units



# Primary R32

Cooling performances	Unit	6.90KW 3 HP	8.5KW 3.5 HP	10.10KW 4 HP	12.10KW 5 HP	14.19KW 6 HP	17.10KW 6.5 HP
Capacity Cooling (min-max)	kW	6.9 (2.45 - 7.85)	8.50 (4.00 - 9.50)	10.10 (1.20 - 5.80)	12.10 (3.30 - 13.20)	14.19 (3.20 - 16.00)	17.10 (3.30 - 18.50)
Absorbed power Cooling (min-max)	kW	2.16	2.67	3.8	4.22	4.78	6.6
EER		3.19	3.18	2.66	2.87	2.97	2.59
Energy class Cooling		A++	A++	A++			
SEER (medium climate)		6.29	6.20	6.10	6.28/248%	5.94/235%	5.81/229.4%
Annual energy consumption	kWh/year	395.00	499.00	577.00	761.00	849.00	943.00
Guaranteed performances Cooling	°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C
<b>Heating performances</b>							
Capacity Heating (min-max)	kW	8.3 (2.20 - 8.70)	9.00 (3.50 - 9.40)	10.50 (3.50 - 11.00)	13.4 (3.00 - 14.60)	13.4 (3.00 - 14.60)	18 (3.00 - 19.50)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	4	5.6	6.5	8.4	9.9	11.1
Absorbed power Heating (min-max)	kW	2.22	2.4	3.5	4.07	4.65	6.1
COP		3.74	3.75	3	3.29	3.47	2.95
Energy class Heating		A+	A+	A			
SCOP (medium climate)		4.05	4.00	3.92	3.7/145%	3.7/145%	3.72/146%
Pdesignh	kW	6.00	6.50	8.20	9.50	12.40	12.40
Annual energy consumption	kWh/year	2007.00	2313.00	2926.00	3674.00	4694.00	4205.00
Guaranteed performances Heating	°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C
<b>Indoor Units</b>		<b>RPIL-3.0UFE1NH</b>	<b>RPIH-3.5UFE1NH</b>	<b>RPIH-4.0UFE1NH</b>	<b>RPIH-5.0UFE1NH</b>	<b>RPIH-6.0UFE1NH</b>	<b>RPIH-6.5UFE1NH</b>
Sound pressure Cooling (Low - Medium - High)	dB(A)	31/34/38	41/38/33	38/40/42	37/40/43	42/45/47	43/45/48
Sound power Cooling	dB(A)	61	63	65	69	77	77
Air flow Cooling (Low - Medium - High)	m³/h	490/700/1000	900/1120/1450	1400/1600/1800	1300/1500/1750	1900/2200/2400	1900/2200/2400
Nom. available pressure (min-max)	Pa	25.0 (0 - 40)	37.0 (0 - 120)	37.0 (0 - 120)	50.0 (0 - 120)	50.0 (0 - 120)	50.0 (0 - 120)
Dimensions (H x W x D)	mm	190x1180x445	268x1140x720	268x1140x720	350x1300x800	350x1300x800	350x1300x800
Case weight	kg	24.0	37.5	37.5	51	51	51
Condensate pump		Included	Included	Included	Included	Included	Included
Condensate pipe diameter (out)	mm	32	32	32	32	32	32
Air filter		included	included	included	included	included	included
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Controller		Wired included (HCWA21NEWH)	Wired included (HCWA21NEWH)	Wired included (HCWA21NEWH)	Wired included (HCWA21NEWH)	Wired included (HCWA21NEWH)	Wired included (HCWA21NEWH)
<b>Outdoor units</b>		<b>RAS-3.0UFESNH1</b>	<b>RAS-3.5UFESNH1</b>	<b>RAS-4.0UFESNH1</b>	<b>RAS-5.0UFESMH1</b>	<b>RAS-6.0UFESMH1</b>	<b>RAS-6.5UFESMH1</b>
Sound Pressure Cooling	dB(A)	54	54	58	62	62	67
Sound pressure Heating	dB(A)	69	70	70	76	76	80
Air flow (Cooling)	m³/h	3150	3150	3800	5800	6300	6300
Dimensions (H x W x D)	mm	670x860x310	670x860x310	840 x 950 x 340	1050x950x340	1386x950x340	1386x950x340
Weight	kg	49.0	49.0	70.0	85.0	101.5	109.0
<b>Refrigeration specifications</b>							
Pipe diameter (Liq/gas)	inch	3/8"/5/8"	3/8"/5/8"	3/8"/3/4"	3/8"/3/4"	3/8"/3/4"	3/8"/3/4"
Initial refrigerant charge	kg/ TeqCO2	1.4/0.95	1.45/0.98	2.00/1.35	2.50/1.69	2.50/1.69	2.50/1.69
Pre-charged for	m	5	5	5	5	5	5
Max pipe length	m	30	50	50	50	50	50
Additional refrigerant	g/m	28	28	28	28	28	28
Maximum height difference (highest OU/lowest OU)	m	15/15	30/30	30/30	30/30	30/30	30/30
Refrigerant		R32	R32	R32	R32	R32	R32
<b>OU Electrical specifications</b>							
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz
Maximum current	A	18.1	18	22.5	11.6	11.6	11.6
Cable diameter (EN 60 335-1)	mm²	3 x 2.5	3 x 2.5	3 x 4	3 x 4	3 x 4	3 x 4
Indoor/outdoor wiring section (shielded)	mm²	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5
Compressor type Inverter		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary

	Ref.	3 HP	3.5 HP	4 HP	5 HP	6 HP	6.5 HP
Outdoor unit price:	(pre-tax)						
Wired controller included:							
Wireless controller price	Ref.	X-RPIM-3.0UNE1NH1	X-RPIM-3.5UNE1NH1	X-RPIM-4.0UNE1NH1	X-RPIH-5.0UNE1NH1	X-RPIH-6.0UNE1NH1	X-RPIH-6.5UNE1NH1
Kit price	(pre-tax)						
Kit	(pre-tax)						

The kit includes: the ducted unit, the wired or wireless controller with receiver, the outdoor unit.

## Compatible controls and accessories (see DRV Controls tab)

Wired controller  
HCWA21NEWH  
Pre-tax price:

Wireless controller  
HRBA31NEGH  
Pre-tax price:

Discover Primary



Ducted



# Primary R410A

Perfect fit for your commercial applications



Primary R410A



### Integrated condensate pump

With a discharge head of 700 mm, these ducted units are easily integrated in most projects.

### Flexible air circulation from below or behind

This solution offers genuine installation flexibility depending on the type of configuration. Equipment air circulation can be modified from below or behind. This does not require a change of equipment, simply an adjustment of the static pressure. (Fig. 1)

### Wide static pressure adjustment range

Wide static pressure range (up to 120 Pa) for long ducts and multizone applications means more practical and more flexible installation.

### Long refrigerant links and large height differences

With up to 50 m of ducts for an installation up to 30 m high, the Primary range offers great flexibility when it comes to installation configuration. (Fig.2)

### Efficiency guaranteed

The Primary ducted range performances are guaranteed in cooling and heating until an outside temperature of -15°C. The DC Inverter technology precisely adjusts the capacity required to heat residential or commercial premises and ensures the installation's comfort and durability.

### Automatic reboot after a power outage

When power returns after an outage, all pre-configurations are maintained and air-conditioning operates based on previous configuration.

Fig. 1

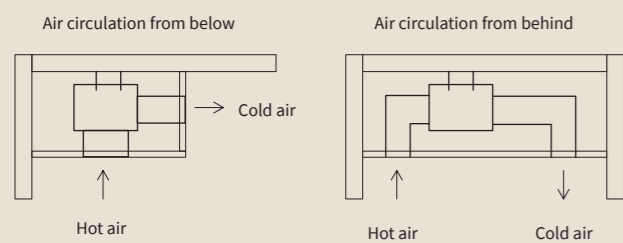
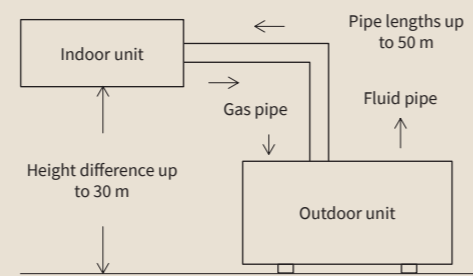
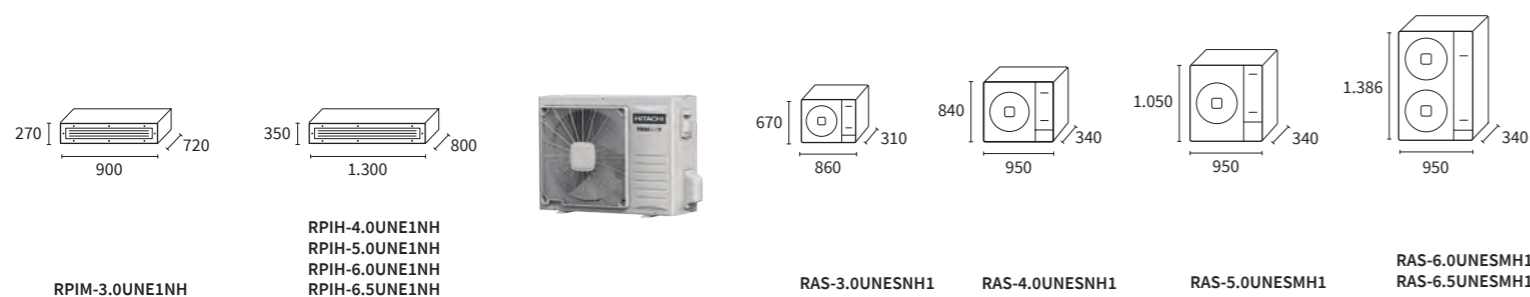


Fig. 2



Indoor units

Outdoor units



## Primary R410A

Indoor units	Unit	RPIM-3.0UNE1NH	RPIH-4.0UNE1NH	RPIH-5.0UNE1NH	RPIH-6.0UNE1NH	RPIH-6.5UNE1NH
Capacity Cooling (min-max)	kW	6.80 (2.70 - 7.85)	10.10 (2.93 - 12.00)	12.03 (3.30 - 13.20)	13.48 (3.20 - 16.00)	15.76 (4.98 - 18.00)
Capacity Heating (min-max)	kW	7.94 (2.77 - 8.70)	11.45 (3.32 - 13.00)	14.00 (3.00 - 14.60)	16.99 (3.40 - 18.50)	18.46 (5.20 - 20.50)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	5.9	8.48	10.36	12.6	15.52
Sound pressure Cooling (Low - Medium - High) <sup>(2)</sup>	dB(A)	34/36/38	35/36/39	35/39/41	40/43/46	40/43/46
Sound power	dB(A)	60	62	68	72	73
Air flow Cooling (Low - Medium - High)	m³/h	852/976/1100	1050/1250/1450	1300/1500/1750	1900/2200/2400	
Nom. static pressure (min/max)	Pa	25 (0-80)	37 (0-120)	50 (0-120)		
Dehumidification	l/h	1.8	2.5	3.2	4.0	4.5
Condensate pump		Yes				
Maximum discharge head	mm	700				
Dimensions (H x W x D)	mm	270 x 900 x 720	350 x 1300 x 800			
Weight	kg	32	51			
Electrical power	V/Ph/Hz	230V/1 Ph/50 Hz				
Pipe diameter (Liq/gas)	Inch	3/8 - 5/8		3/8 - 3/4		
Condensate pipe diameter (out)	mm	32				
Controller		Wired or wireless				

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

Outdoor units	Unit	RAS-3.0UNESNH1	RAS-4.0UNESNH1	RAS-5.0UNESMH1	RAS-6.0UNESMH1	RAS-6.5UNESMH1
Absorbed power in Cooling	kW	2.23	3.31	4.30	4.46	6.06
Absorbed power in Heating	kW	2.37	3.40	4.10	4.90	5.60
EER/COP		3.05/3.46	3.05/3.38	2.80/3.41	3.02/3.42	2.60/3.23
Seasonal energy class (Cooling/Heating)		A++/A			A+/A	
SEER/SCOP (medium climate)		6.17/3.85	6.23/3.80	5.71/3.77	6.08/3.78	5.99/3.68
Sound Pressure Cooling	dB(A)	53	55	58	53	58
Sound power	dB(A)	69	70	75		76
Pipe diameter (Liq/gas)	inch	3/8 - 5/8		3/8 - 3/4		
Air flow (Cooling/Heating)	m³/h	3000	3500	5800	6200	
Initial refrigerant charge	kg	1.7	2.8	3.2	3.78	3.95
Pre-charged for	m	5				
Minimum length	m	5				
Maximum length/Additional refrigerant	m/g/m	50/35				
Maximum height difference	m	30				
Dimensions (H x W x D)	mm	670 x 860 x 310	840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	
Weight	kg	51	70	85	113	117
Electrical power	V/Ph/Hz	230V/1 Ph/50 Hz				
Maximum current	A	18.1	22.5	11.6	400V/3 Ph/50 Hz	
Cable diameter (EN 60 335-1)	mm²	3 x 2.5		3 x 4.0		
Indoor/outdoor wiring section (shielded)	mm²	4 x 1.5				
Guaranteed performances Cooling	°C	-15-48				
Guaranteed performances Heating	°C	-15-24				
Refrigerant		R410A				
Compressor Inverter	Type	ROTARY				

Single zone wired control	Ref.	X-RPIM-3.0UNE1NH	X-RPIH-4.0UNE1NH	X-RPIH-5.0UNE1NH	X-RPIH-6.0UNE1NH	X-RPIH-6.5UNE1NH
Public Price 2019 for the kit	(pre-tax)					

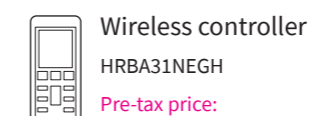
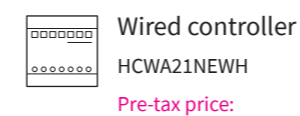
Kit	Ref.					
	(pre-tax)					

Single zone wireless controller	Ref.	X-RPIM-3.0UNE1NH	X-RPIH-4.0UNE1NH	X-RPIH-5.0UNE1NH	X-RPIH-6.0UNE1NH	X-RPIH-6.5UNE1NH
Kit price	(pre-tax)					

Kit	Ref.					
	(pre-tax)					

The kit includes: the ducted unit, the wired or wireless controller with receiver, the outdoor unit.

### Compatible controls and accessories (see DRV Controls tab)



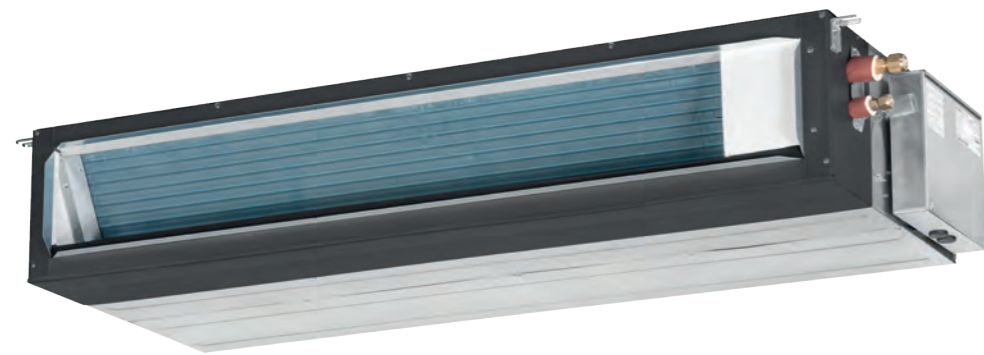
Discover Primary



# Micro VRF IVX Comfort

A compact VRF solution to meet projects with larger technical constraints

Micro VRF IVX Comfort



## Integrated condensate pump

Hitachi ducted units are fitted as standard with a condensate pump up to 850 mm, offering greater flexibility during installation (models up to 6 HP).

## Flexible air circulation from below or behind

This solution offers genuine installation flexibility depending on the type of configuration. Equipment air circulation can be modified from below or behind on sizes 2 to 6 HP by role switching. (Fig. 1)

## New air

In order to improve indoor air quality, an Econofresh kit can be combined with the ducted unit to ensure new air management (see Econofresh P. <DB>).

## Wide static pressure adjustment range

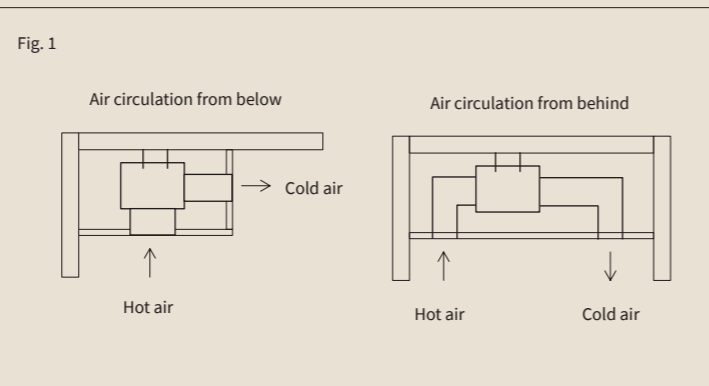
Static pressure available up to 120 Pa, with 3 level options, including zero pressure for air delivery on the grill.

## Airzone compatibility

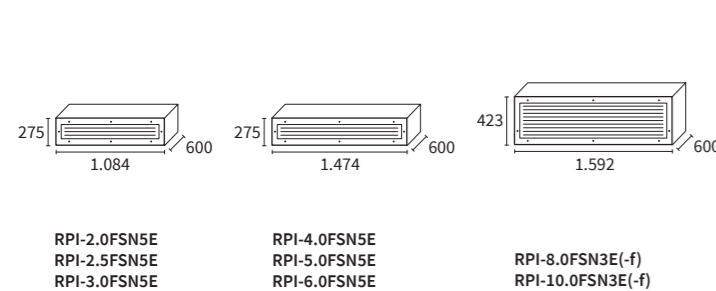
A single ducted indoor unit can handle up to 6 zones individually thanks to the Airzone motorized plenums and their control solutions (see P. 140).

## Compact

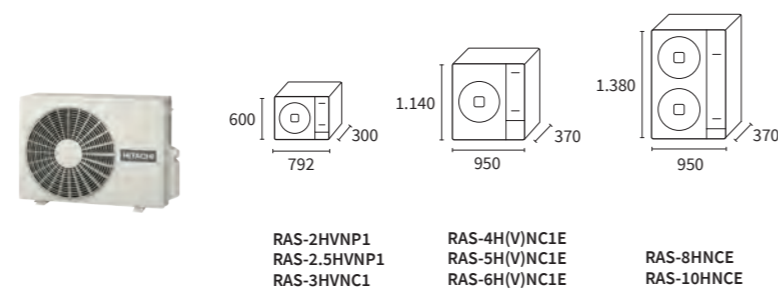
The outdoor units are exceptionally compact, taking up just 0.23m<sup>3</sup> of floorspace.



### Indoor units



### Outdoor units



# Ducted Comfort

Indoor units	Unit	RPI-2.0FSN5E	RPI-2.5FSN5E	RPI-3.0FSN5E	RPI-4.0FSN5E	RPI-5.0FSN5E	RPI-6.0FSN5E	RPI-8.0FSN3E(-F)	RPI-10.0FSN3E(-F)
Capacity Cooling (min-max)	kW	5.00 (2.20 - 5.60)	5.60 (2.20 - 6.30)	7.10 (3.20 - 8.00)	10.00 (4.50 - 11.20)	12.50 (5.70 - 14.00)	14.00 (6.00 - 16.00)	20.00 (8.00 - 22.40)	25.00 (10.00 - 28.00)
Capacity Heating (min-max)	kW	5.60 (2.20 - 7.10)	6.30 (2.20 - 8.00)	8.00 (3.50 - 10.60)	11.20 (5.00 - 14.00)	14.00 (5.00 - 18.00)	16.00 (5.00 - 20.00)	22.40 (6.30 - 28.00)	28.00 (8.00 - 35.00)
Max. capacity Heating at -7°C <sup>(1)</sup>	kW	5.00	5.80	6.40	10.20	11.90	13.30	18.00	23.00
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	27/29/29	28/30/30	29/31/31	32/35/37	33/35/38	33/36/39	51/54/54	52/55/55
Sound power	dB(A)	55	56	57	62	65	66	77	78
Air flow Cooling (Low - Medium - High)	m <sup>3</sup> /h	600/750/960	780/960/1140	960/1140/1320	1500/1680/1800	1740/1920/2100	1800/1980/2160	4056/4500/4500	
Static pressure (min/max)	Pa	30 (0-120)	30 (0-125)		45 (0-120)	50 (0-140)		180-220	
Dehumidification	l/h	2	2.4	3	4.5	5.9	6.6	7.7	8
Condensate pump		yes							no
Maximum removal height	mm	850							-
Dimensions (H x W x D)	mm	275 x 1084 x 600			275 x 1474 x 600			423 x 1592 x 600	
Weight	kg	35	36		48		85	87	
Electrical power		1~ 230V 50Hz							
Cable diameter (EN 60 335-1) <sup>(3)</sup>	mm <sup>2</sup>				3 x 0.75			3 x 2.5	
Pipe diameter (Liq/gas)	inch	1/4 - 5/8		3/8 - 5/8			3/8 - 3/4		3/8 - 7/8
Condensate pipe diameter (out)	mm				32			25	
Controller		PC-ARFP1E (simplified possibility, wireless with option)							

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hi-ToolKit software.  
<sup>(2)</sup> Sound pressure measurements were taken under the following conditions: 1.5 meters under the unit.  
<sup>(3)</sup> Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.  
 \* The version (-F) corresponds to the fire safety compliant model M0/M.

Outdoor units	Unit	RAS-2HVN1P1	RAS-2.5HVN1P1	RAS-3HVNC1	RAS-4H(V)NC1E	RAS-5H(V)NC1E	RAS-6H(V)NC1E	RAS-8HNCE	RAS-10HNCE
Absorbed power in Cooling	kW	1.41	1.60	2.53	3.10	3.93	4.55	5.95	8.27
Absorbed power in Heating	kW	1.50	1.65	2.26	2.78	3.95	4.40	5.88	7.71
EER/COP		3.54/3.73	3.49/3.81	2.81/3.54	3.23/4.03	3.18/3.54	3.08/3.64	3.36/3.81	3.02/3.63
Energy class (Cooling/Heating)		A/A		C/B		B/A			
SEER/SCOP (medium climate)		5.60/4.01	5.51/4.33	4.97/3.80	5.38(V) - 5.27/4.01	5.88(V) - 5.84/3.91	5.67(V) - 5.64/3.96		
Seasonal energy class (Cooling/Heating)		A+/A+		B/A		A/A+			
Sound pressure Cooling (night mode) <sup>(2)</sup>	dB(A)	44 (42)	45 (43)	48 (46)	52 (50)		55 (53)	57 (55)	58 (56)
Sound power	dB(A)	62	63	66	68		71	76	
Weight	kg	43		44	79	89		133	138
Dimensions (H x W x D)	mm	600 x 792 x 300			1140 x 950 x 370			1380 x 950 x 370	
Electrical power		1~ 230V 50Hz			3N~ 400V 50Hz (1~ 230V 50Hz)			3N~ 400V 50Hz	
Maximum current	A	13.8	15.8	17.8	15.5 (28.5)			24	
Cable diameter (EN 60 335-1) <sup>(3)</sup>	mm <sup>2</sup>	3 X 2.50		3 x 4.00		5x 4.00 (3 x 6.00)			5 x 6.00
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>				2 x 0.75				
Pipe diameter (Liq/gas)	inch	1/4 - 1/2*			3/8 - 5/8			3/8(1*) - 1	1/2 - 1
Maximum length/Additional refrigerant	m/g/m	50/30		50/40	70/40	75/60		100/to be calculated according to technical documentation	
Initial refrigerant charge	kg	1.6		1.9	3.2	2.9	3.2	5.3	6
Pre-charged for	m	30		20	30				
Air flow (Cooling/Heating)	m <sup>3</sup> /h	2436		2682	3720	4080	4800	7620	8040
Maximum height difference (highest OU/lowest OU)	m	30/20							
Guaranteed performance Cooling*/Heating	°C	(OPT) -15°C/+46°C (DB)//-20°C/+15°C (WB)							
Refrigerant		R410A							
Compressor		SCROLL							

<sup>(1)</sup> When the length exceeds 70 m, the diameter of the liquid tube must be 1/2".

Kit price	Ref	X-RPI-2.0HVN1P1	X-RPI-2.5HVN1P1	X-RPI-3.0HVNC1	X-RPI-4.0H(V)NC1E	X-RPI-5.0H(V)NC1E	X-RPI-6.0H(V)NC1E	X-RPI-8.0HNCE(-F)	X-RPI-10.0HNCE(-F)
Single-phase kit price	(pre-tax)								
Three-phase kit price	(pre-tax)								
Three-phase kit price M0 (-f)	(pre-tax)								

The kit includes the indoor unit, wired control and the outdoor unit.

Kit	(pre-tax)								
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The kit includes the ducted unit, wired controller PC-ARFP1E and the outdoor unit.

**Version M0**  
 Models RPI-8.0FSN3E(-f) and RPI-10.0FSN3E(-f) recommended for a ducted installation in a 1<sup>st</sup> group ERP (category 1 to 4):  
 - Either in a room larger than 300 m<sup>2</sup>;  
 - Or in a system supplying several rooms smaller than 300 m<sup>2</sup>.

## Compatible controls and accessories (see DRV Controls tab)

- Simplified wired control**  
PC-ARH1E
- Wireless controller**  
PC-AWR
- Others:**
  - Remote sensor THM-R2AE
  - Input/output configurable contact connectors PCC-1A
  - Condensate removal kit DBS-26 (models IVX Comfort 4HP) DBS-12L (models IVX Comfort 2/2.5/3HP)
  - Air circulation below (RPI-0.6~1.5FSN5E) D-ICA15/(RPI-0.4FSN5E) D-ICA04
  - Motion sensor for Ducted Low Height SOR-MSK
- User-friendly multifunction wired control**  
PC-ARFP1E

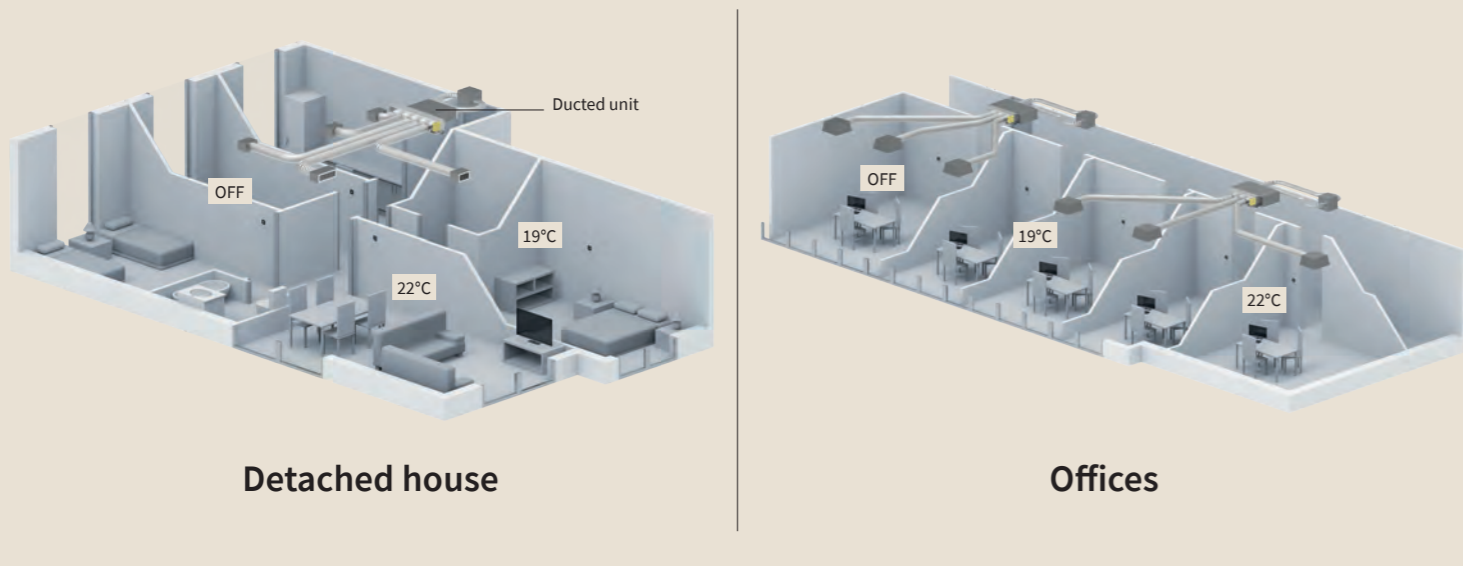
# Zoning solution

## Precise temperature control in each room from a single ducted unit!

A single ducted unit allows you to control up to 6 rooms individually thanks to the motorized plenums which fit directly to the Hitachi units.



## Ideal for residential and commercial applications



## A range of benefits with the zoning solution!

### Simplified installation

- Plug & Play solution.
- Pre-cabled motorized plenums.
- Fewer indoor units to install.

### Improved comfort

- Up to 6 rooms can be controlled individually.
- Temperature adjustment by 0.5°C increments.
- Temperature maintained at 0.3°C for both heating and cooling.
- New air intake possible on the standard model.

### Ideal for new builds and renovation

- RT2012: certified eu.bac with CA certified 0.3K.
- Heating version only for applications RT2012.
- Reversible version for comfort all year round.
- Eligible for tax deduction\*: 30% CITE/reduced French sales tax 5.5%.

\* Please go to [impots.gouv.fr](http://impots.gouv.fr) for more details

## Connected and user-friendly interfaces



### Airzone Blueface thermostat

Wired connection/3.5" touchscreen: Configurable as Main or zone thermostat. Numerous functions and settings, ideal for maximum control of your entire system: more efficient and responsible heating. Complete and user-friendly interface. Eco-adapt function and standby function for real energy savings. Control the temperature, operating mode and ventilation speed. Timer. Access forecasts (via the Webserver Airzone Cloud connection) to anticipate weather changes.



### Airzone Think thermostat

Wired or wireless connection/2.7" screen: Configurable as Main or zone thermostat. Low consumption device: the easy way to cut energy costs. Attractive and user-friendly interface. Control the temperature, operating mode and ventilation speed. Access forecasts (via the Webserver Airzone Cloud connection) to anticipate weather changes.



### Airzone Lite thermostat

Wired or wireless connection: Within an installation with the Blueface interface, this is the ideal solution for rapid access to main functions. Its modern and fun interface uses colors to indicate the mode and zone temperature. Zone start/stop function. Control the temperature setting by 1°C increments with amplitudes of ±3°C.



### Airzone Cloud webserver

The Airzone Cloud application for smartphone, tablet and PC offers full remote control of the installation anywhere, anytime! Several servers and up to 32 systems can be controlled simultaneously with a single webserver. All your thermostat functions are located in the Cloud: Temperature control, timer, Weather forecasts, access rights...

Control	Airzone Blueface	Airzone Think	Airzone Lite	Airzone Cloud webserver
Reference	AZCE6BLUEFACEB	AZCE6THINKCB	AZCE6LITECB	AZX6WSCLOUDDINC
Wireless Connection	-	AZCE6THINKRB	AZCE6LITERB	AZX6WSCLOUDDINR
10M cable	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10

Ducted References	Capacity	Plenum version	Motorized air delivery plenums					Return plenum
			2 outputs	3 outputs	4 outputs	5 outputs	6 outputs	
Commercial application	RPI-FSN5E	0.8HP Standard	-	-	-	-	-	AZCEZHPR05S 999.2 x 129.3 (1x D250)
		1HP Medium	-	-	AZEZ6HITBS05S4 1140 x 250 x 454	-	-	
	2.0HP Standard	-	-	-	-	-	AZCEZHPR05M 999.2 x 200.2 (2x D250)	
		3.0HP Medium	-	-	AZEZ6HITBS05M4 1140 x 250 x 454	AZEZ6HITBS05M5 1425 x 250 x 454	AZEZ6HITBS05M6 1638 x 250 x 454	
	4.0HP Standard	-	-	-	-	-	AZEZ6HITBS05L 1389.2 x 200.2 (4x D250)	
		5.0HP Medium	-	-	-	AZEZ6HITBS05L5 1425 x 250 x 454	AZEZ6HITBS05L6 1638 x 250 x 454	
Residential Application	RPIM-FSN4E	0.8HP Standard	AZEZ6HITST02S2 930 x 300 x 454	AZEZ6HITST02S3 930 x 300 x 454	AZEZ6HITST02S4 1140 x 300 x 454	-	-	AZCEZHPR02S 527.6 x 195 (1x D250)
		1.0HP Medium	AZEZ6HITBS02S2 930 x 250 x 454	AZEZ6HITBS02S3 930 x 250 x 454	-	-	-	
	5.0kW Standard	6.0kW Medium	AZEZ6HITST03M2 930 x 250 x 454	AZEZ6HITST03M3 930 x 250 x 454	AZEZ6HITST03M4 1140 x 250 x 454	AZEZ6HITST03M5 1425 x 250 x 454	AZEZ6HITST03M6 1638 x 250 x 454	AZCEZHPR03M 818 x 223.8 (2x D250)
		7.0kW Medium	AZEZ6HITBS03M2 930 x 250 x 454	AZEZ6HITBS03M3 930 x 250 x 454	AZEZ6HITBS03M4 1140 x 250 x 454	AZEZ6HITBS03M5 1425 x 250 x 454	AZEZ6HITBS03M6 1638 x 250 x 454	
	RAD-RPE	2.5kW Standard	AZEZ6HITST04S2 930 x 300 x 454	AZEZ6HITST04S3 930 x 300 x 454	AZEZ6HITST04S4 1140 x 300 x 454	-	-	AZCEZHPR04S 647.2 x 208.1 (1x D250)
		3.5kW Medium	AZEZ6HITBS04S2 930 x 250 x 454	AZEZ6HITBS04S3 930 x 250 x 454	AZEZ6HITBS04S4 1140 x 250 x 454	-	-	

There are two versions of plenums available: standard version (300 mm) and medium version with new air supply (250 mm). Plenum dimensions are indicated under the reference.

Simple and quick to install, the cassette is the ideal solution for offices and small shops. Available in 600 x 600 or 800 x 800 versions, their independent 4-way air delivery provide optimum comfort levels. Pre-charged with R32 or R410A, our ranges provide you with a solution regardless of the regulatory constraints facing your projects.



# Cassette



# Quick selection table

Cassette

Light Commercial Cassette R32



Primary R32



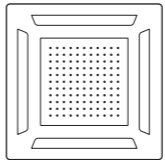
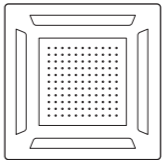
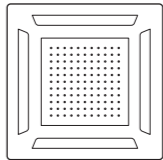
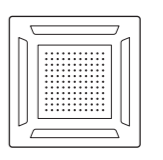
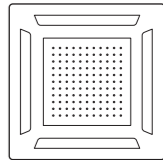
Primary R410A



Micro VRF IVX Comfort



Cassette

	Small commercial applications	Medium commercial applications			
		Generic applications		Technical applications	
	Light Commercial Cassette R32	Primary R32	Primary R410A	Micro VRF IVX Comfort	
					
Refrigerant	R32	R32	R410A	R410A	
Type	Monosplits 600 x 600	Monosplits 800 x 800		Monosplits 600 x 600	Monosplits 800 x 800
Cooling Capacity (kW)	2.5 3.5 5.0 6.0	7.1 8.8 10.5 12.5 14.0 17.0	7.0 10.3 12.0 13.4 14.5	5.0 5.6	5.0 5.6 7.1 10.0 12.5 14.0
Power supply	Single-phase	Single-phase (3/3.5/4/5/6CV)  Three-phase (5/6/6,5CV)	Single-phase (3/4CV)  Three-phase (5/6/6,5CV)	Single-phase	Single-phase 2/2.5/3CV  Three-phase 4/5/6CV
COP	4.00	3.59		4.02	4.92
Energy rating Heating/Cooling	A+/A++	A+/A++		A+/A+	A+/A++
Cooling until	+46 °C	+48 °C		+46 °C	
Heating until	-15 °C	-15 °C		-20 °C	
Discretion	++	+		++	+
Motion sensor	•	-	-	Option	

# Light Commercial Cassette R32

Design and comfort



## Condensate pump included

The Small Commercial Cassette includes its own condensate pump for immediate elimination. This means no other elements need to be added to the installation. (Fig. 1)

## Motion sensor

Air-conditioning with no wasted consumption thanks to the motion sensor which gradually reduces equipment energy consumption when the room is empty and switches on again when movement of people is detected.

## Improved comfort

This equipment can be used to select the location where the temperature setting should be measured (on the controller, the recirculation or with the average of both values). This feature ensures superior comfort levels in the room.

## Flexible installation

The equipment can be installed in any location within the building because refrigerant pipe lengths go up to 30 m between the indoor unit and the outdoor unit. The height difference between the two can also go up to 20 m. Measuring 600 x 600 mm, they can be integrated in standard ceiling tiles.

## Compatible with the Hi Kumo remote control

This application allows you to turn the unit on or off, raise or lower the temperature or set the timer from wherever you may be around the world. All you need is a smartphone, an Internet connection and Wi-Fi equipment (optional) to connect to the indoor unit.

## Individual louver control

The cassette's 4 louvers can be configured separately with the SPX-WKT3 so that each one operates in a certain way: by delivering air directly towards the user, directing it to the ceiling, floor etc. This means comfort is guaranteed. (Fig. 2)

Fig. 1

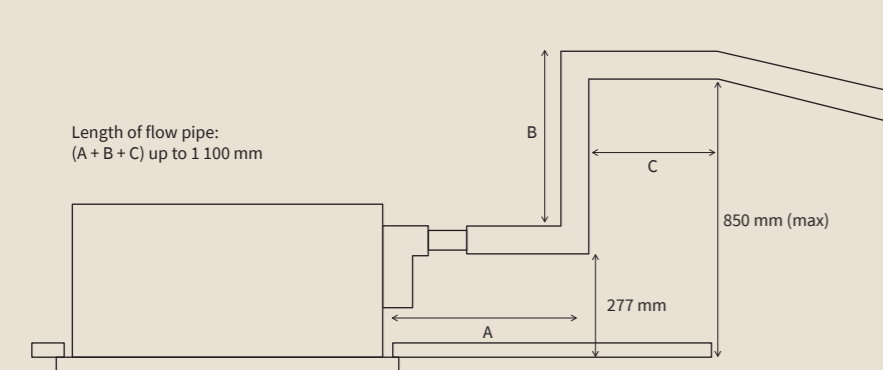
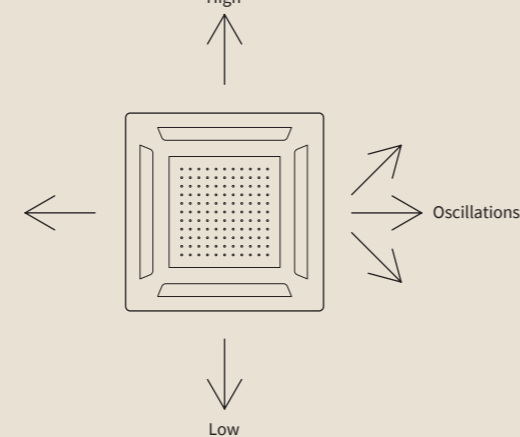
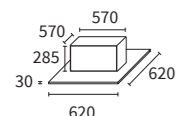


Fig. 2

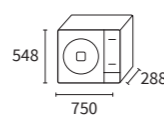


### Indoor units

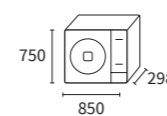
### Outdoor units



RAI-25RPE RAI-50RPE  
RAI-35RPE RAI-60RPE



RAC-25NPE  
RAC-35NPE



RAC-50NPE  
RAC-60NPE

# Light Small Commercial Cassette R32

Cooling performances	Unit	2.5KW	3.5KW	5KW	6KW
Cooling Capacity (min-max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
Absorbed capacity Cooling (min-max)	kW	0.595 (0.25 - 1.29)	0.875 (0.25 - 1.46)	1.42 (0.30 - 2.50)	1.71 (0.30 - 2.60)
EER		4.20	4.00	3.52	3.51
Energy class Cooling		A++	A++	A++	A++
SEER (medium climate)		6.20	6.50	6.20	6.20
Guaranteed Cooling performance	°C	-10°C/+43°C	-10°C/+43°C	-15°C/+46°C	-15°C/+46°C

Heating performances	Unit	2.5KW	3.5KW	5KW	6KW
Heating Capacity (min-max)	kW	3.50 (0.90 - 5.00)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	2.70	3.20	4.20	4.80
Absorbed capacity Heating (min-max)	kW	0.875 (0.25 - 1.50)	1.230 (0.25 - 1.92)	1.57 (0.30 - 2.65)	1.84 (0.30 - 2.65)
COP		4	3.9	3.82	3.8
Energy class Heating		A+	A+	A+	A+
SCOP (medium climate)		4.30	4.30	4.40	4.40
Guaranteed Heating performances	°C	-15°C/+21°C	-15°C/+21°C	-15°C/+24°C	-15°C/+24°C

Indoor Units	Unit	RAI-25RPE	RAI-35RPE	RAI-50RPE	RAI-60RPE
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	27/31/35/38	27/33/37/40	29/35/39/43	29/35/39/43
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	28/32/36/39	28/34/38/41	30/36/40/44	30/36/40/44
Sound pressure Cooling	dB(A)	54	56	56	56
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	360/505/590/660	360/505/590/660	390/540/630/720	390/540/630/720
Dehumidification	l/h	1.4	1.8	2.8	3.8
Dimensions (H x W x D)	mm	285 x 570 x 570	285 x 570 x 570	285 x 570 x 570	285 x 570 x 570
Panel dimensions (H x W x D)	mm	30 x 620 x 620	30 x 620 x 620	30 x 620 x 620	30 x 620 x 620
Case weight	kg	17	17	17	17
Panel weight	kg	2.8	2.8	2.8	2.8
Panel reference		P-AP56NAMS	P-AP56NAMS	P-AP56NAMS	P-AP56NAMS
Controller		Not included	Not included	Not included	Not included

Outdoor units	Unit	RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE
Sound Pressure Cooling <sup>(2)</sup>	dB(A)	48	48	50	50
Sound pressure Cooling	dB(A)	61	61	65	65
Air flow (Cooling/Heating)	m <sup>3</sup> /h	1920/1620	1920/1620	2160/2160	2160/2160
Dimensions (H x W x D)	mm	548 x 750 x 288	548 x 750 x 288	750 x 850 x 298	750 x 850 x 298
Weight	kg	32.5	32.5	50	50
Compressor		Rotary	Rotary	Rotary	Rotary

Refrigeration specifications	Unit	RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE
Pipe diameter (Liq/gas)	Inch	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"
Condensate pipe diameter (out)	mm	32	32	32	32
Condensate pump		Included	Included	Included	Included
Initial refrigerant charge	kg	0.86	0.86	1.50	1.50
Pre-charged for	m	20	20	30	30
Minimum length	m	3	3	3	3
Maximum length/Additional refrigerant	m/g/m	20/-	20/-	30/-	30/-
Maximum height difference (highest OU/lowest OU)	m	10/10	10/10	20/20	20/20
Refrigerant		R32	R32	R32	R32

Electrical specifications	Unit	RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Maximum current	A	15	15	10	10
Cable diameter (EN 60 335-1)	mm <sup>2</sup>	2 x 1.50+T	2 x 1.50+T	2 x 2.50+T	2 x 2.50+T
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>	3 x 1.50+T	3 x 1.50+T	3 x 1.50+T	3 x 1.50+T

Delivered without controller					
	Ref.	XRAI-25RPE	XRAI-35RPE	XRAI-50RPE	XRAI-60RPE
Price	(pre-tax)				
Price of the panel P-AP56NAMS	(pre-tax)				
	Ref.				
	(pre-tax)				
	(pre-tax)				
	(pre-tax)				

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hitoolkit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

## Compatible controls and accessories

Infrared controller  
SPX-RCKA3  
Pre-tax price:

Simplified wired controller  
SPX-RCDB  
Pre-tax price:

- Others\*\*:
- Multi-indoor units control box SPX-DST1 + SPX-WDST8M
  - Hi Kumo Wifi gateway SPX-WFG01:
  - Hi-Box AHP-SMB-01:
  - Hi Kumo gateway for Hi-Box SPX-TAG01:
  - Dry contact kit only SPX-WDC3:

Programmable wired control  
SPX-WKT3  
Pre-tax price:

H-Link box  
PSC-6RAD  
Pre-tax price:

\*\* All prices are pre-tax

# Primary R32

R32 ecofriendly option for your commercial applications



Primary R32



## Temperature compensation

On the cassette model, heat compensation is an option via a wired controller. This function can compensate air stratification to ensure a level of comfort in the entire room, regardless of the height of the ceiling. (Fig. 1)

## Efficiency guaranteed

The Primary cassette range performances are guaranteed in cooling and heating until an outside temperature of -15°C. The DC Inverter technology precisely adjusts the required heating capacity and ensures the installation's comfort and durability.

## Wireless controller supplied

Wireless controller supplied, compatible with wired remote. (Fig. 2)

## New air intake

New air intake is available, improving air quality indoors.

## Compatible with technical room applications

The unit is fitted as standard with free inputs / outputs for a fault report or for remote start/stop control. Ideal for installation in a service room.

Fig. 1

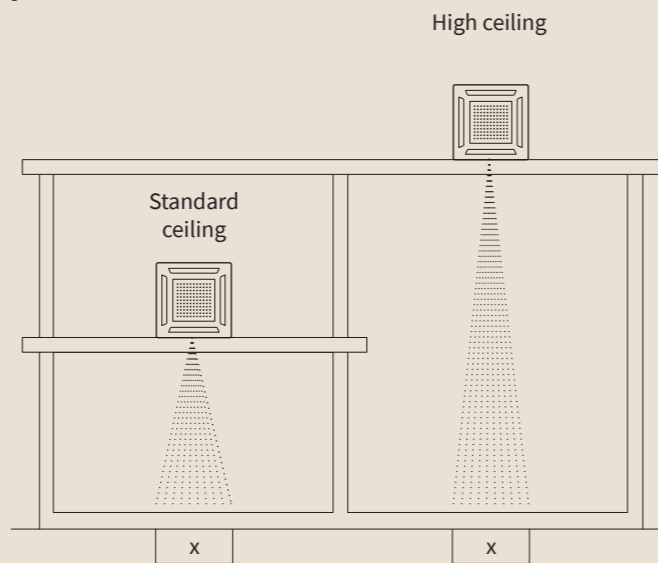
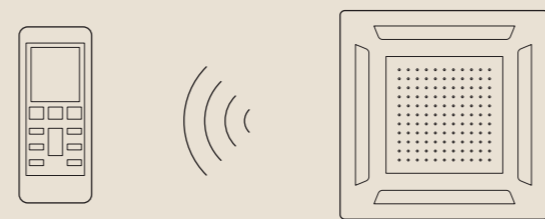


Fig. 2



# Primary R32

Cooling performances	Unit	6.90KW	8.5KW	10.10KW	12.10KW	14.19KW	17.10KW
		3 HP	3.5 HP	4 HP	5 HP	6 HP	6.5 HP
Cooling Capacity (min-max)	kW	6,9 (2.45 - 7.85)	8,50 (4.00 - 9.50)	10,10 (1.20 - 5.80)	12,10 (3.30 - 13.20)	14,19 (3.20 - 16.00)	17,10 (3.30 - 18.50)
Absorbed power in Cooling (min-max)	kW	2.16	2.67	3.8	4.22	4.78	6.6
EER		3.19	3.18	2.66	2.87	2.97	2.59
Energy class Cooling		A++	A++	A++			
SEER (medium climate)/ηs,c		6.29	6.20	6.10	6.28/248%	5.94/235%	5.81/229.4%
Annual energy consumption	kWh/year	395.00	499.00	577.00	761.00	849.00	943.00

Heating performances	Unit	-15°C / +48°C					
		3 HP	3.5 HP	4 HP	5 HP	6 HP	6.5 HP
Heating Capacity (min-max)	kW	8,3 (2.20 - 8.70)	9,00 (3.50 - 9.40)	10,50 (3.50 - 11.00)	13,4 (3.00 - 14.60)	13,4 (3.00 - 14.60)	18 (3.00 - 19.50)
Capacity at full charge at -7°C	kW	4,50	5,55	6,50	8,70	10,50	11,50
Absorbed power in Heating (min-max)	kW	2.22	2,4	3,5	4,07	4,65	6,1
COP		3,74	3,75	3	3,29	3,47	2,95
Energy class Heating		A+	A+	A			
SCOP (medium climate)/ηs,h		4,05	4,00	3,92	3,7/145%	3,7/145%	3,72/146%
Pdesighn	kW	6,00	6,50	8,20	9,50	12,40	12,40
Annual energy consumption	kWh/year	2007.00	2313.00	2926.00	3674.00	4694.00	4205.00
Guaranteed performances Heating	°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C

Indoor Units	Unit	RCI-3.0UFE1NH	RCI-3.5UFE1NH	RCI-4.0UFE1NH	RCI-5.0UFE1NH	RCI-6.0UFE1NH	RCI-6.5UFE1NH
		Sound pressure Cooling (Low - Medium - High)	dB(A)	37/42/45	42/46/48	42/45/50	47/49/51
Sound power Cooling	dB(A)	59	62	65	64	65	68
Air flow Cooling (Low - Medium - High)	m³/h	720/980/1180	900/1120/1400	1000/1300/1600	1550/1700/1850	1400/1700/2100	1400/1700/2100
Dimensions (H x W x D)	mm	248x840x840	248x840x840	248x840x840	298x840x840	298x840x840	298x840x840
Panel Dimensions (H x W x D):	mm	37x950x950	37x950x950	37x950x950	37x950x950	37x950x950	37x950x950
Case weight	kg	25.0	27.0	27.0	32.0	32.0	32.0
Condensate pump		Included					
Condensate pipe diameter (out)	mm	32					
Air filter		Included					
Electrical power	V/Ph/Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Panel Reference		PHKF160SAH1	PHKF160SAH1	PHKF160SAH1	PHKF160SAH1	PHKF160SAH1	PHKF160SAH1
Controller		Infrared included (HRBA31NEGH)					

Outdoor units	Unit	RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1
		Sound pressure Cooling	dB(A)	54	54	58	62
Sound power Cooling	dB(A)	69	70	70	76	76	80
Air flow (Cooling)	m³/h	3150	3150	3800	5800	6300	6300
Dimensions (H x W x D)	mm	670x860x310	670x860x310	840 x 950 x 340	1050x950x340	1386x950x340	1386x950x340
Weight	kg	49.0	49.0	70.0	85.0	101.5	109.0

Refrigeration specifications	Unit	RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1
		Pipe diameter (Liq/gas)	(inch)	3/8"/5/8"	3/8"/5/8"	3/8"/3/4"	3/8"/3/4"
Initial refrigerant charge	kg/TeqCO2	1.4/0.95	1.45/0.98	2.00/1.35	2.50/1.69	2.50/1.69	2.50/1.69
Pre-charged for	m	5	5	5	5	5	5
Max pipe length	m	30	50	50	50	50	50
Additional refrigerant	g/m	28	28	28	28	28	28
Maximum height difference (highest OU/lowest OU)	m	15/15	30/30	30/30	30/30	30/30	30/30
Refrigerant		R32	R32	R32	R32	R32	R32

OU Electrical specifications	Unit	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz
		Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	400V/3Ph/50Hz
Maximum current	A	18.1	18	22.5	11.6	11.6	11.6
Cable diameter (EN 60 335-1)	mm²	3 x 2.5	3 x 2.5	3 x 4	3 x 4	3 x 4	3 x 4
Indoor/outdoor wiring section (shielded)	mm²	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5
Compressor type Inverter		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary

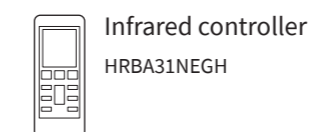
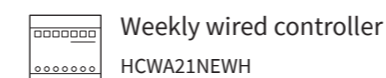
Single zone wired control	Ref.	X-RCI-3.0UNE1NH	X-RCI-3.5UNE1NH	X-RCI-4.0UNE1NH	X-RCI-5.0UNE1NH	X-RCI-6.0UNE1NH	X-RCI-6.5UNE1NH
		Kit price	(pre-tax)				

Environmental contribution							
Kit	(pre-tax)						

Single zone infrared control	Ref.	X-RCI-3.0UNE1NH	X-RCI-3.5UNE1NH	X-RCI-4.0UNE1NH	X-RCI-5.0UNE1NH	X-RCI-6.0UNE1NH	X-RCI-6.5UNE1NH
		Kit price	(pre-tax)				

The kit includes: the cassette and its panel, the wired or infrared remote control with receiver, the outdoor unit.

## Compatible controls and accessories (see DRV Controls tab)

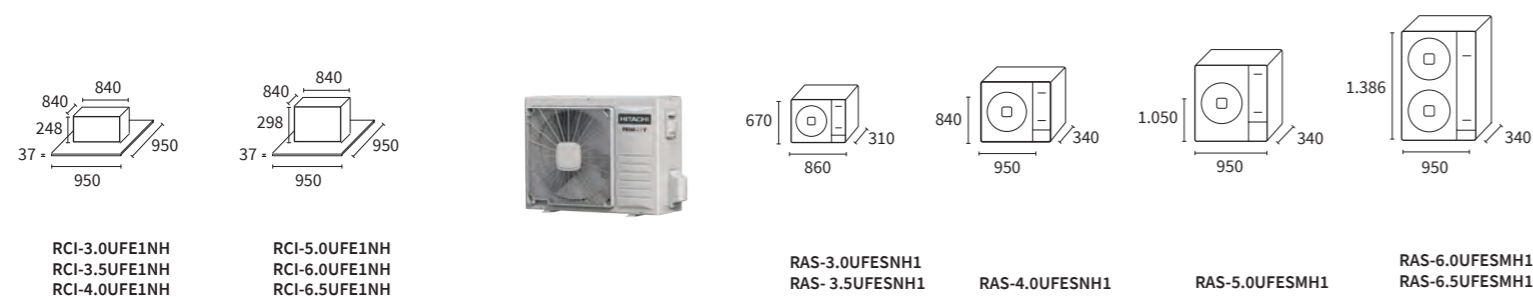


Discover Primary



Indoor units

Outdoor units



# Primary R410A

Perfect fit for your commercial applications



Primary R410A



## Temperature compensation

On the cassette model, heat compensation is an option via a wired controller. This function can compensate air stratification to ensure a level of comfort in the entire room, regardless of the height of the ceiling. (Fig. 1)

## Efficiency guaranteed

The Primary cassette range performances are guaranteed in cooling and heating until an outside temperature of -15°C. The DC Inverter technology precisely adjusts the required heating capacity and ensures the installation's comfort and durability.

## Wireless controller supplied

Wireless controller supplied, compatible with wired remote (Fig. 2)

## New air intake

New air intake is available, improving air quality indoors.

## Compatible with technical room applications

The unit is fitted as standard with free inputs / outputs for a fault report or for remote start/stop control. Ideal for installation in a service room.

Fig. 1

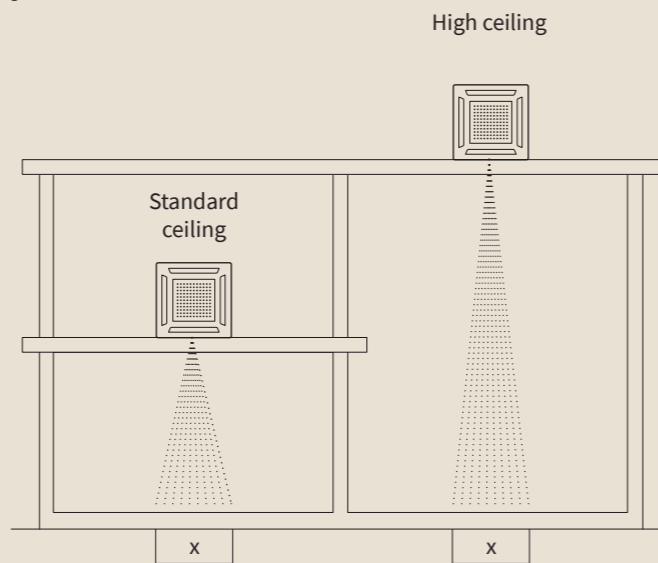
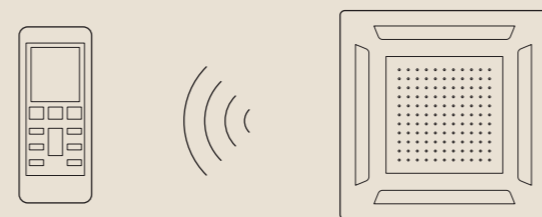


Fig. 2



# Primary R410A

Indoor units	Unit	RCI-3.0UNE1NH	RCI-4.0UNE1NH	RCI-5.0UNE1NH	RCI-6.0UNE1NH	RCI-6.5UNE1NH
Cooling Capacity (min-max)	kW	7.07 (2.70 - 7.85)	10.30 (2.93 - 12.00)	12.07 (3.30 - 13.20)	13.40 (3.40 - 16.20)	14.50 (4.98 - 18.00)
Heating capacity (min-max)	kW	8.21 (2.77 - 8.80)	11.50 (3.32 - 13.00)	14.00 (3.00 - 14.60)	16.44 (3.30 - 18.00)	17.59 (5.00 - 21.00)
Heating capacity at full charge at -7°C <sup>(1)</sup>	kW	6.1	8.48	10.36	12.18	13
Sound pressure Cooling (Low - Medium - High) <sup>(2)</sup>	dB(A)	36/38/41	37/40/45	41/43/46	46/48/50	46/48/50
Sound power	dB(A)	58	62	63	66	66
Air flow Cooling (Low - Medium - High)	m³/h	1100/976/852	1600/1300/1000	1850/1700/1550	2000/1900/1700	2000/1900/1700
Dehumidification	l/h	1.8	2.5	3.2	4	4.5
Condensate pump				Yes		
Maximum lift height	mm			800		
Pipe diameter (Liq/gas)	inch	3/8 - 5/8			3/8 - 3/4	
Condensate pipe diameter (out)	mm			32		
Dimensions case (H x W x D)	mm	248 x 840 x 840		298 x 840 x 840		
Dimensions panel (H x W x D)					37 x 950 x 950	
Weight	kg	25	27	32		
Electrical power	V/Ph/Hz				230V/1 Ph/50 Hz	
Reference of panel					PHKF160SAH1	
Controller					Infrared included	

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

Outdoor units	Unit	RAS-3.0UNESNH1	RAS-4.0UNESNH1	RAS-5.0UNESMH1	RAS-6.0UNESMH1	RAS-6.5UNESMH1
Absorbed power in Cooling	kW	2.21	3.43	4.19	4.62	5.49
Absorbed power in Heating	kW	2.37	3.61	3.90	4.85	5.71
EER/COP		3.2/3.46	3/3.19	2.88/3.59	2.9/3.39	2.64/3.08
Seasonal energy class (Cooling/Heating)		A++/A+	A+/A	A+/A	A+/A	A+/A
SEER/SCOP (medium climate)		6.46/4.08	6.13/3.90	5.72/3.80	6.01/3.87	5.87/3.80
Sound Pressure Cooling	dB(A)	53	55	58	53	58
Sound power	dB(A)	69	70	75		76
Pipe diameter (Liq/gas)	(inch)	3/8 - 5/8		3/8 - 3/4		
Air flow (Cooling/Heating)	m³/h	3000	3500	5800	6200	
Initial refrigerant charge	kg	1.70	2.80	3.20	3.78	3.95
Pre-charged for	m	5				
Minimum length	m	5				
Maximum length	m/g/m	50				
Maximum height difference	m	30				
Dimensions (H x W x D)	mm	670 x 860 x 310	840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	
Weight	kg	51	70	85	113	117
Electrical power	V/Ph/Hz	230 V/1 Ph/50 Hz			400 V/3 Ph/50 Hz	
Maximum current	A	18.1	22.5	11.6	11.0	13.1
Cable diameter (EN 60 335-1)	mm²	3 x 2.5	3 x 4.0	4 x 1.5		5 x 2.5
Indoor/outdoor wiring section (shielded)	mm²				4 x 1.5	
Guaranteed Cooling performances	°C				-15-48	
Guaranteed Heating performances	°C				-15-24	
Refrigerant					R410A	
Compressor	Type				ROTARY	

Single zone wired control	Ref.	X-RCI-3.0UNE1NH	X-RCI-4.0UNE1NH	X-RCI-5.0UNE1NH	X-RCI-6.0UNE1NH	X-RCI-6.5UNE1NH
Kit price	(pre-tax)					

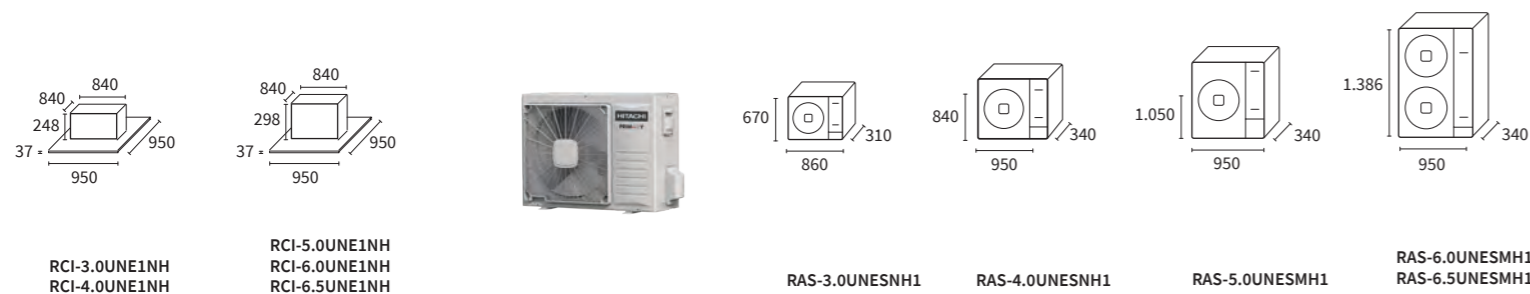
Single zone infrared control	Ref.	X-RCI-3.0UNE1NH	X-RCI-4.0UNE1NH	X-RCI-5.0UNE1NH	X-RCI-6.0UNE1NH	X-RCI-6.5UNE1NH
Kit price	(pre-tax)					

The kit includes: the cassette and its panel, the wired or infrared remote control with receiver, the outdoor unit.

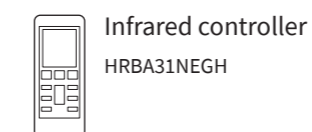
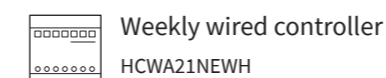
Cassette

Indoor units

Outdoor units



## Compatible controls and accessories (see DRV Controls tab)



## Discover Primary





# Micro VRF IVX Comfort 600 x 600

A compact VRF solution to meet larger technical constraints



## Low sound level

Thanks to its 4 ventilation speeds, the 600 x 600 cassette is one of the quietest on the market.

## Customizable individual comfort

The GENTLE COOL function can be accessed with the new wired controllers for customized comfort. In summer, cold drafts are avoided thanks to adjustable minimal delivery temperature programming.

## Unmatched comfort

Independent control of air delivery louvers and COANDA effect air distribution to completely remove any sensation of discomfort.

## Energy savings

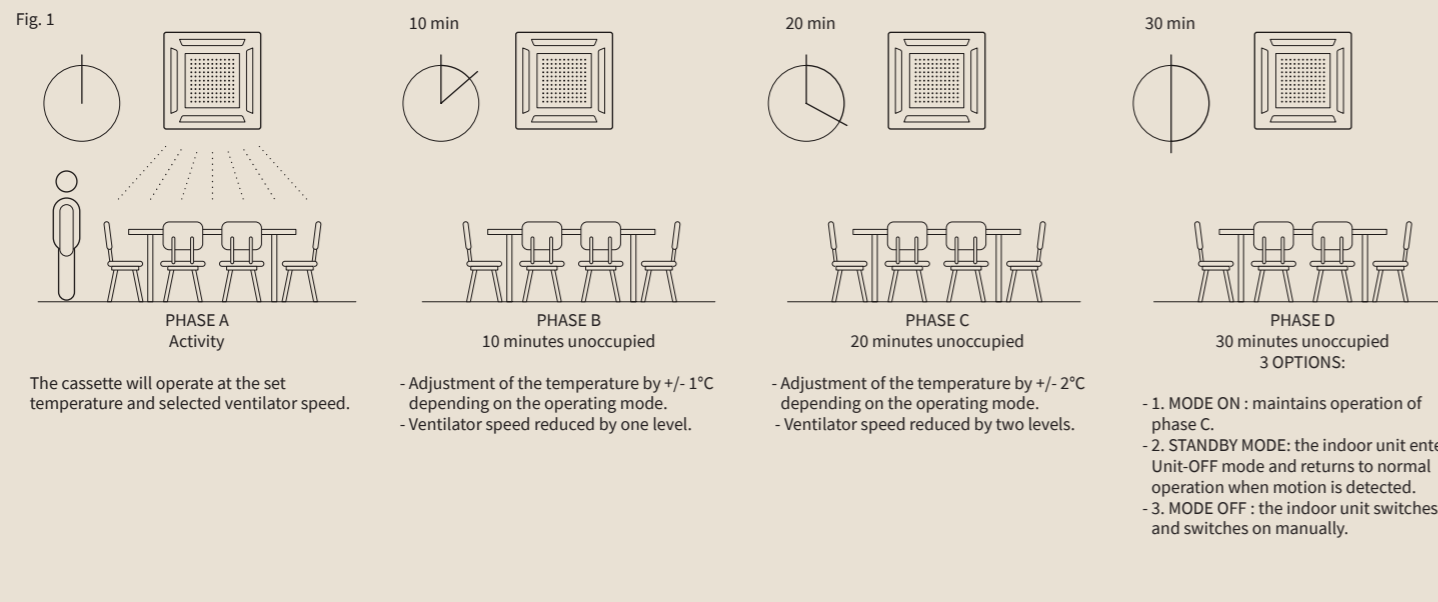
The motion sensor (optional) optimizes comfort automatically while at the same time limiting energy consumption in areas which are not permanently occupied. It continuously analyses differences in heat and the presence of people in the room and adjusts its temperature setting (drop up to 2°C), ventilation speed and air flow direction. (Fig. 1)

## Easy installation

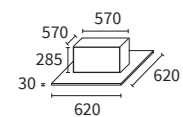
The 600 x 600 integrates perfectly in suspended ceilings thanks to its compact design (570 x 570mm recess) and its non-overlapping panel. All cassettes also come with a pump for removing condensate up to 850 mm.

## Compact

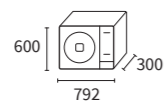
The outdoor units are exceptionally compact, taking up just 0.23m<sup>2</sup> of floorspace.



Indoor units Outdoor units



RCIM-2.0FSN4E  
RCIM-2.5FSN4E



RAS-2HVNP1  
RAS-2.5HVNP1

# Comfort 600 x 600 cassette

Indoor units	Unit	RCIM-2.0FSN4E	RCIM-2.5FSN4E
Cooling Capacity (min-max)	kW	5.00	5.60
Heating Capacity (min-max)	kW	5.60	6.30
Capacity at -7°C <sup>(1)</sup>	kW	5.15	5.75
Sound pressure Cooling (Very low - Low - Medium - High) (2)	dB(A)	31/35/39/45	35/39/43/47
Sound power	dB(A)	56	60
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	480/600/720/900	600/720/840/960
Condensate pump			yes
Maximum removal height	mm		850
Pipe diameter (Liq/gas)	inch	1/4 - 1/2	3/8 - 5/8
Condensate pipe diameter (out)	mm		32
Dimensions case (H x W x D)	mm	285 x 570 x 570	
Dimensions panel (H x W x D)	mm	30 x 620 x 620	
Case and panel weight	kg	17+ 2.5	
Electrical power		1~ 230V 50Hz	
Cable diameter (EN 60 335-1) (3)	mm <sup>2</sup>	3 x 1.5	
Reference of facade		P-AP56NAM	
Controller		PC-ARFP1E (infrared, optional simplified wired control)	

(1) Data excluded defrosting. For the data corresponding to your project, use our technical catalogs.  
(2) Sound pressure measurements were taken under the following conditions: 1.5 meters under the unit.

Outdoor units	Unit	RAS-2HVNP1	RAS-2.5HVNP1
Absorbed power Cooling	kW	1.45	1.72
Absorbed power Heating	kW	1.47	1.57
EER/COP		3.45/3.80	3.25/4.02
Energy class (Cooling/Heating)		A/A	A/A
SEER/SCOP (medium climate)		5.67/4.00	5.61/4.41
Seasonal energy class (Cooling/Heating)		A+/A+	A+/A+
Sound pressure Cooling (night mode)	dB(A)	44 (42)	45 (43)
Sound power	dB(A)	62	63
Weight	kg		43
Dimensions (H x W x D)	mm	600 x 792 x 300	
Electrical power		1~ 230V 50Hz	
Maximum current	A	13.8	15.8
Cable diameter (EN 60 335-1) (3)	mm <sup>2</sup>	3 x 2.50	
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>	2 x 0.75	
Pipe diameter (Liq/gas)	inch	1/4 - 1/2*	
Maximum length/Additional refrigerant	m/g/m	50/30	
Initial refrigerant charge	kg	1.6	
Pre-charged for	m	30	
Air flow (Cooling)	m <sup>3</sup> /h	2436	
Maximum height difference (highest OU/lowest OU)	m	30/20	
Guaranteed performances Cooling (4)/Heating	°C	(OPT) -15°C/+46°C (DB)/-20°C/+15°C (WB)	
Refrigerant		R410A	
Compressor		SCROLL	

(3) Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.  
(4) The option must be enabled to ensure a cold mode at -15 °C.  
\* Pipes leaving the indoor unit same diameter as the outdoor unit. Adapt as required.

Price	Ref.	X-RCIM-2.0HVNP1	X-RCIM-2.5HVNP1
Single-phase kit price	(pre-tax)		

The kit includes: the cassette and its panel, the wired controller PC-ARFP1E, the outdoor unit.

## Compatible controls and accessories (see DRV Controls tab)

<p><b>Simplified wired control</b> PC-ARH1E - Option</p>	<p><b>Infrared controller</b> PC-AWR - Option</p>	<p><b>User-friendly multifunction wired control</b> PC-ARFP1E</p>
<p><b>Remote sensor</b> THM-R2AE</p>	<p><b>Infrared receiver</b> PC-ALHC1 - Option</p>	<p><b>New air intake kit</b> PD-75C</p>
<p><b>Motion sensor</b> SOR-NEC</p>	<p><b>Input/output configurable contact connectors</b> PCC-1A</p>	<p><b>Condensate removal kit</b> DBS-26 (models IVX Comfort 4CV) DBS-12L (models IVX Comfort 2/2.5/3CV)</p>

# Micro VRF IVX Comfort 800 x 800

A compact VRF solution to meet larger technical constraints



## Unmatched comfort

Independent control of air delivery louvers and COANDA effect air distribution to completely remove any sensation of discomfort.

## Energy savings

The motion sensor (optional) optimizes comfort automatically while at the same time limiting energy consumption in areas which are not permanently occupied. It continuously analyses differences in heat and the presence of people in the room and adjusts its temperature setting (drop up to 2°C), ventilation speed and air flow direction. (Fig. 1)

## Compact

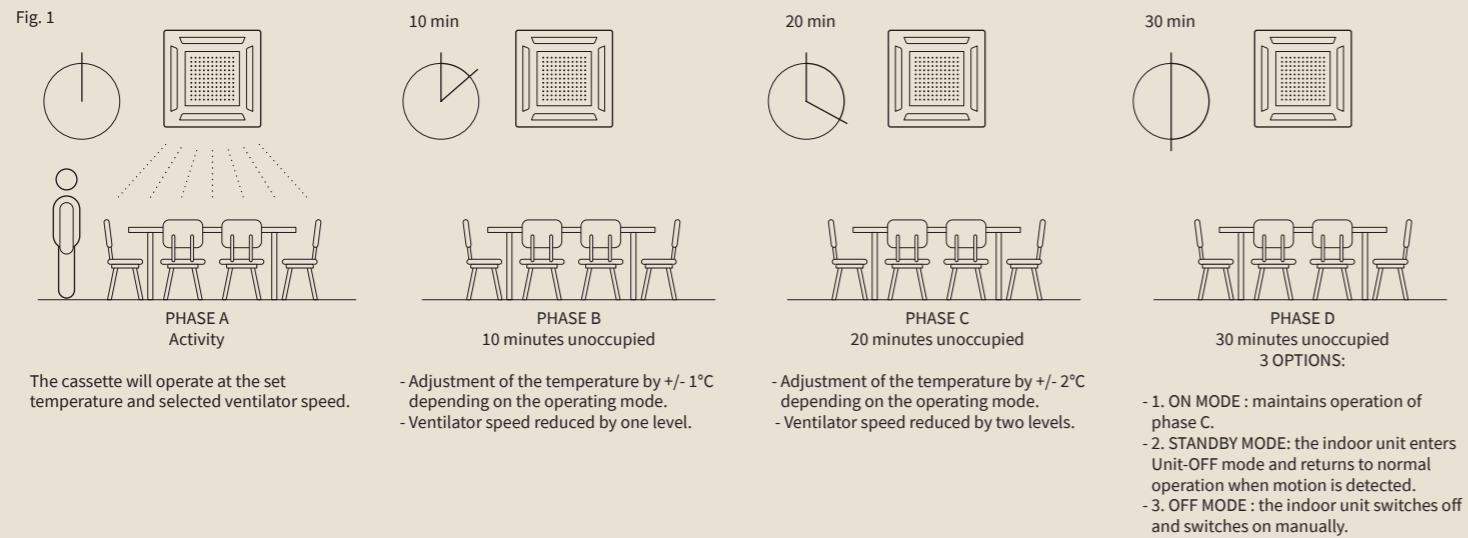
The outdoor units are exceptionally compact, taking up just 0.23m<sup>2</sup> of floorspace.

## Easy installation

The 800 x 800 cassette integrates perfectly in suspended ceilings thanks to its low recess height (248 mm) and in high ceilings with installation possible up to 4.20 m, depending on the model. All cassettes also come with a pump for removing condensate up to 850 mm.

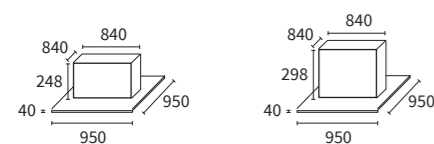
## Customizable individual comfort

The GENTLE COOL function can be accessed with the new wired controllers for customized comfort. In summer, cold drafts are avoided thanks to adjustable minimal delivery temperature programming.

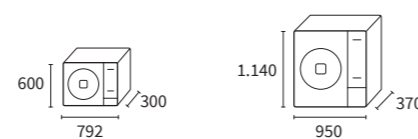


Indoor units

Outdoor units



RCI-2.0FSN4  
RCI-3.0FSN4  
RCI-4.0FSN4  
RCI-5.0FSN4  
RCI-6.0FSN4



RAS-2.5HVNP1  
RAS-3.0HVNC1  
RAS-4H(V)NC1  
RAS-5H(V)NC1  
RAS-6H(V)NC1

## Comfort 800 x 800 cassette

Indoor units	Unit	RCI-2.0FSN4	RCI-2.5FSN4	RCI-3.0FSN4	RCI-4.0FSN4	RCI-5.0FSN4	RCI-6.0FSN4
Capacity (adjustable)	HP	1.8 ~ 2.0	2.3 ~ 2.5	3.0	4.0	5.0	6.0
Nominal capacity Cooling	kW	5.00	5.60	7.10	10.00	12.50	14.00
Nominal capacity Heating	kW	5.60	6.30	8.00	11.20	14.00	16.00
Heating Capacity at -7°C <sup>(1)</sup>	kW	5.15	5.75	6.07	10.34	12.13	13.15
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	27/30/32/37	28/32/36/42		33/39/43/48	35/40/45/48	37/41/46/48
Sound power	dB(A)	55	56	57	64		65
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	660/840/1020/1320	840/1080/1380/1620		1200/1440/1860/2220	1260/1560/1980/2220	1320/1680/2100/2220
Condensate pump					Yes		
Maximum removal height	mm				850		
Pipe diameter (Liq/gas)	inch	1/4 - 1/2			3/8 - 5/8		
Condensate pipe diameter (out)	mm				25		
Dimensions case (H x W x D)	mm	248 x 840 x 840			298 x 840 x 840		
Dimensions panel (H x W x D)	mm				40 x 950 x 950		
Case and panel weight	kg	21+ 6.5	22+ 6.5		26+ 6.5		
Electrical power					1~ 230V 50Hz		
Cable diameter (EN 60 335-1) <sup>(3)</sup>	mm <sup>2</sup>				3 x 1.5		
Reference of panel					P-N23NA2		
Controller		PC-ARFP1E (infrared, optional simplified wired control)					

<sup>(1)</sup> Data excluded defrosting. For the data corresponding to your project, use our technical catalogs.  
<sup>(2)</sup> Sound pressure measurements were taken under the following conditions: 1.5 meters under the unit.

Outdoor units	Unit	RAS-2.5HVNP1	RAS-2.5HVNP1	RAS-3.0HVNC1	RAS-4H(V)NC1E	RAS-5H(V)NC1E	RAS-6H(V)NC1E
Absorbed power Cooling	kW	1.24	1.34	2.26	2.70	3.71	4.29
Absorbed power Heating	kW	1.20	1.28	2.00	2.45	3.60	3.78
EER/COP		4.03/4.68	4.18/4.92	3.14/4.00	3.70/4.57	3.37/3.89	3.26/4.23
Energy class (Cooling/Heating)		A/A	A/A	B/A	A/A		
SEER/SCOP (medium climate)		6.49/4.67	6.05/4.77	6.00/4.21	6.57(V) - 6.41/4.47	6.1(V) - 6.06/4.0	5.88(V) - 5.85/4.05
Seasonal energy class (Cooling/Heating)		A++/A++	A+/A++	A+/A+	A++/A+		
Sound pressure Cooling (night mode)	dB(A)	44 (42)	45 (43)	48 (46)	52 (50)		55 (53)
Sound power	dB(A)	62	63	66	68	69	71
Weight	kg		43	44	79		89
Dimensions (H x W x D)	mm		600 x 792 x 300		1140 x 950 x 370		
Electrical power			1~ 230V 50Hz		3N~ 400V 50Hz (1~ 230V 50Hz)		
Maximum current	A	13.8	15.8	17.8	15.5 (28.5)		
Cable diameter (EN 60 335-1) <sup>(3)</sup>	mm <sup>2</sup>	3 x 2.50		3 x 4.00		5 x 4.00 (3 x 6.00)	
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>			2 x 0.75			
Pipe diameter (Liq/gas)	inch	1/4 - 1/2*			3/8 - 5/8		
Maximum length/Additional refrigerant	m/g/m	50/30		50/40	70/40	75/60	
Initial refrigerant charge	kg	1.6		1.9	3.2	2.9	3.2
Pre-charged for	m	30		20	30		
Air flow (Cooling/Heating)	m <sup>3</sup> /h	2436		2682/-	3720/-	4080/-	4800/-
Maximum height difference (highest OU/lowest OU)	m			30/20			
Guaranteed performance Cooling <sup>(4)</sup> /Heating	°C			(OPT) -15°C/+46°C (DB)//-20°C/+15°C (WB)			
Refrigerant		R410A					
Compressor		SCROLL					

<sup>(3)</sup> Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.  
<sup>(4)</sup> The option must be enabled to ensure a cold mode at -15 °C.  
\* Pipes leaving the indoor unit same diameter as the outdoor unit. Adapt as required.

Price	Ref.	X-RCI-2.0HVNP1	X-RCI-2.5HVNP1	X-RCI-3.0HVNC1	X-RCI-4.0H(V)NC1E	X-RCI-5.0H(V)NC1E	X-RCI-6.0H(V)NC1E
Single-phase kit price	(pre-tax)						
Three-phase kit price							

Ref.

The environmental contribution is a fixed pre-tax net unit amount. It is in addition to the net price.  
The kit includes: the cassette and its panel, the wired controller PC-ARFP1E, the outdoor unit.

## Compatible controls and accessories (see DRV Controls tab)

Simplified wired control PC-ARH1E - Option	Infrared controller PC-AWR - Option	User-friendly multifunction wired control PC-ARFP1E
Remote sensor THM-R2AE	Infrared receiver PC-ALHC3	New air intake kit PD-75C
Motion sensor PS-MSK2	Input/output configurable contact connectors PCC-1A	Condensate removal kit DBS-26 (models IVX Comfort 4CV) DBS-12L (models IVX Comfort 2/2.5/3CV)

With its extended air delivery range, the Ceiling-mounted system is an ideal solution for long office spaces and commercial premises. Fitted to the ceiling means floorspace can be saved.

With guaranteed heating until  $-15^{\circ}\text{C}$  for the Primary range and  $-20^{\circ}\text{C}$  for the IVX Comfort range, this solution ensures genuine occupant comfort.



# — Ceiling-mounted system



# Quick selection table

Ceiling-mounted system

Primary R32  
(Floor-Ceiling)



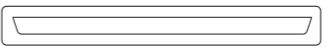
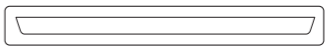
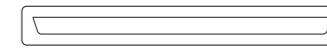
Primary R410A  
(Floor-Ceiling)



Micro VRF IVX Comfort  
(Ceiling-mounted system)



Ceiling-mounted system

	Small commercial applications	Medium commercial applications	
		Generic applications	Technical applications
	Primary R32 (Floor-Ceiling)	Primary R410A (Floor-Ceiling)	Micro VRF IVX Comfort (Ceiling-mounted system)
			
Refrigerant	R32	R410A	R410A
HP capacity	7.1 8.8 10.5 12.5 14.0 17.0	3 4 5 6 6.5	2 2.5 3 4 5 6
Power supply	Single-phase (3/4 CV) Three-phase (5/6/6.5 CV)	Single-phase (3/4 CV) Three-phase (5/6/6.5 CV)	Single-phase (full power) Three-phase (4/5/6 CV)
COP	3.43	3.43	4.12
Energy rating	SCOP A SEERA+	SCOP A SEER A+	SCOP A SEER A+
Cooling until	-15 °C	-15 °C	-15 °C
Heating until	-15 °C	-15 °C	-20 °C
Max length/height difference (m) OU-IU	50/30	50/30	75/30



# Primary R32 (Floor-Ceiling)

R32 ecofriendly option for your commercial applications



### Flexible positioning

The unit can be installed on the floor or on the ceiling. The Hitachi Primary range console can be installed both on the floor and on the ceiling, allowing the user to choose the most optimal room location for maximum comfort. (Fig. 1)

### Efficiency guaranteed

The Primary ceiling range performances are guaranteed in cooling and heating until an outside temperature of -15°C. The DC Inverter technology precisely adjusts the capacity required to heat commercial premises and ensures the installation's comfort and durability.

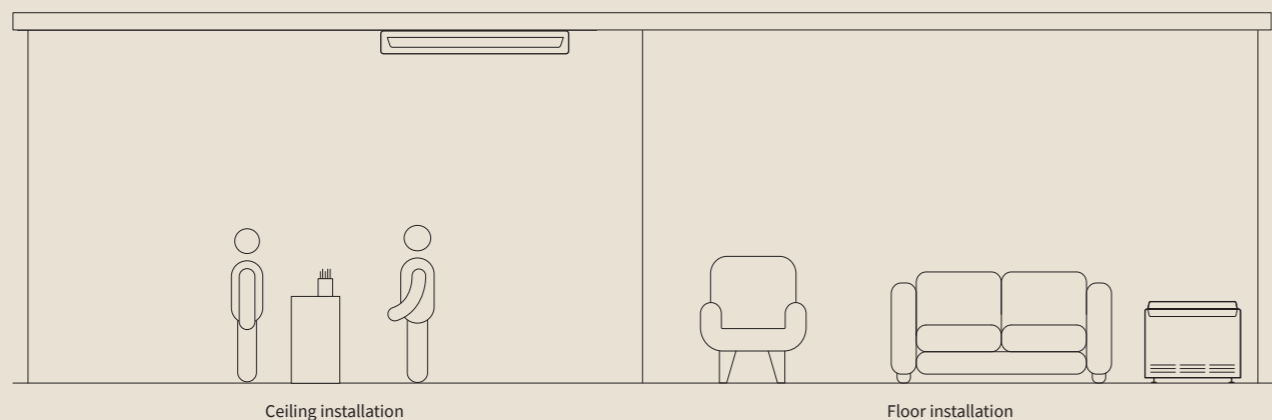
### Compatible with technical room applications

The unit is fitted as standard with free inputs / outputs for a fault report or for remote start/stop control. Ideal for installation in a service room.

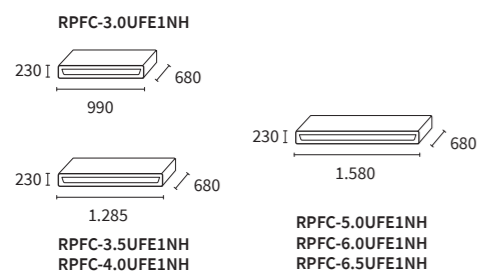
### New air intake

New air intake improves air quality indoors.

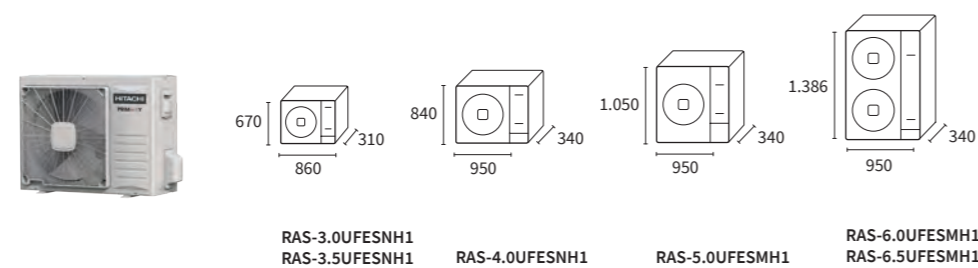
Fig. 1



#### Indoor units



#### Outdoor units



## Primary R32 (Floor-Ceiling)

Cooling performances	Unit	7.00KW	8.70KW	10.10KW	12.10KW	13.89KW	16.90KW
		3 HP	3.5 HP	4 HP	5 HP	6 HP	6.5 HP
Capacity Cooling (min-max)	kW	6.5 (2.45 - 7.85)	8.70 (4.00 - 9.20)	10.10 (3.50 - 11.00)	12.10 (3.30 - 13.20)	13.89 (3.40 - 16.20)	16.9 (3.30 - 18.00)
Absorbed power Cooling (min-max)	kW	1.94	2.71	3.8	4.24	4.81	6.72
EER		3.35	3.21	2.72	2.85	2.89	2.51
Energy class Cooling		A++	A++	A++			
SEER (medium climate)/ηs,c		5.81	6.20	6.10	6.28/248%	5.64/223%	5.60/221.0%
Annual energy consumption	kWh/year	391.00	499.00	580.00	761.00	894.00	883.00

Guaranteed performances Cooling							
Heating performances							
Capacity Heating (min-max)	kW	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C	-15°C/+48°C
		7.35 (2.20 - 8.70)	9.00 (3.50 - 9.50)	11.2 (3.32 - 12.00)	13.50 (3.00 - 14.60)	16.53 (3.70 - 18.00)	19.49 (3.00 - 21.00)
Capacity at full charge at -7°C	kW	4.80	5.80	6.30	10.10	10.50	12
Absorbed power Heating (min-max)	kW	2.07	2.25	3.5	3.7	4.65	6.1
COP		3.55	4	3	3.65	3.47	2.95
Energy class Heating		A+	A+	A			
SCOP (medium climate)/ηs,h		4.33	4.20	3.92	3.98/156%	3.81/149.4%	3.87/152.2%
Pdesighn	kW	6.00	6.50	8.20	9.50	13.50	13.50
Annual energy consumption	kWh/year	2168.00	2423.00	2926.00	3674.00	5086.00	4037.00
Guaranteed performances Heating	°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C	-15°C/+24°C

Indoor Units							
		RPFC-3.0UFE1NH	RPFC-3.5UFE1NH	RPFC-4.0UFE1NH	RPFC-5.0UFE1NH	RPFC-6.0UFE1NH	RPFC-6.5UFE1NH
Sound pressure Cooling (Low - Medium - High)	dB(A)	44/48/51	43/48/54	51/52/54	48/51/54	46/52/58	48/53/56
Sound pressure Cooling	dB(A)	65	65	65	68	75	74
Air flow Cooling (Low - Medium - High)	m³/h	800/950/1100	900/1120/1450	1300/1500/1700	1600/1800/2000	1200/1600/2000	1500/1700/2000
Dimensions (H x W x D)	mm	230x990x680	230x1285x680	230x1285x680	230x1580x680	230x1580x680	230x1580x680
Case weight	kg	30.0	37.0	37.0	48.0	48.0	48.0
Condensate pump		Optional	Optional	Optional	Optional	Optional	Optional
Condensate pipe diameter (out)	mm	32	32	32	32	32	32
Air filter		included	included	included	included	included	included
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Remote control	Standard	Infrared included (HRBA31NEGH)	Infrared included (HRBA31NEGH)	Infrared included (HRBA31NEGH)	Infrared included (HRBA31NEGH)	Infrared included (HRBA31NEGH)	Infrared included (HRBA31NEGH)

Outdoor units							
	Unit	RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1
Sound Pressure Cooling	dB(A)	54	54	58	62	62	67
Sound pressure Cooling	dB(A)	69	70	70	76	76	80
Air flow (Cooling)	m³/h	3150	3150	3800	5800	6300	6300
Dimensions (H x W x D)	mm	670x860x310	670x860x310	840 x 950 x 340	1050x950x340	1386x950x340	1386x950x340
Weight	kg	49.0	49.0	70.0	85.0	101.5	109.0

Refrigeration specifications							
Pipe diameter (Liq/gas)	inch	3/8"/5/8"	3/8"/5/8"	3/8"/3/4"	3/8"/3/4"	3/8"/3/4"	3/8"/3/4"
Initial refrigerant charge	kg/ TeqCO2	1.4/0.95	1.45/0.98	2.00/1.35	2.50/1.69	2.50/1.69	2.50/1.69
Pre-charged for	m	5	5	5	5	5	5
Max pipe length	m	30	50	50	50	50	50
Additional refrigerant	g/m	28	28	28	28	28	28
Maximum height difference (highest OU/lowest OU)	m	15/15	30/30	30/30	30/30	30/30	30/30
Refrigerant		R32	R32	R32	R32	R32	R32

OU Electrical specifications							
Electrical power	V/Ph/Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz	400V/3Ph/50Hz
Maximum current	A	18.1	18	22.5	11.6	11.6	11.6
Cable diameter (EN 60 335-1)	mm²	3 x 2.5	3 x 2.5	3 x 4	3 x 4	3 x 4	3 x 4
Indoor/outdoor wiring section (shielded)	mm²	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5
Compressor type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary

Single zone wired control	Ref.	X-RPFC-3.0UNE1NH	X-RPFC-3.5UNE1NH	X-RPFC-4.0UNE1NH	X-RPFC-5.0UNE1NH	X-RPFC-6.0UNE1NH	X-RPFC-5.0UNE1NH	X-RPFC-6.0UNE1NH	X-RPFC-6.5UNE1NH
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Public Price 2019 for the kit	(pre-tax)								
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Kit	(pre-tax)								
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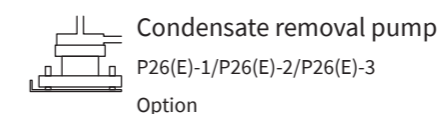
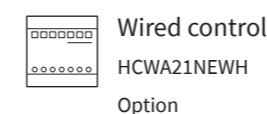
Single zone infrared control	Ref.	X-RPFC-3.0UNE1NH	X-RPFC-3.5UNE1NH	X-RPFC-4.0UNE1NH	X-RPFC-5.0UNE1NH	X-RPFC-6.0UNE1NH	X-RPFC-5.0UNE1NH	X-RPFC-6.0UNE1NH	X-RPFC-6.5UNE1NH
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Kit price	(pre-tax)								
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Kit	(pre-tax)								
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The kit includes: the cassette and its panel, the wired or infrared remote control with receiver, the outdoor unit.

## Compatible controls and accessories

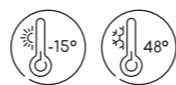


Discover Primary



# Primary R410A (Floor-Ceiling)

Perfect fit for your commercial applications



**Flexible positioning:**  
The unit can be installed on the floor or on the ceiling

The Hitachi Primary range console can be installed both on the floor and on the ceiling, allowing the user to choose the most optimal room location for maximum comfort. (Fig. 1)

**Efficiency guaranteed**

The Primary ceiling range performances are guaranteed in cooling and heating until an outside temperature of -15°C. The DC Inverter technology precisely adjusts the capacity required to heat commercial premises and ensures the installation's comfort and durability.

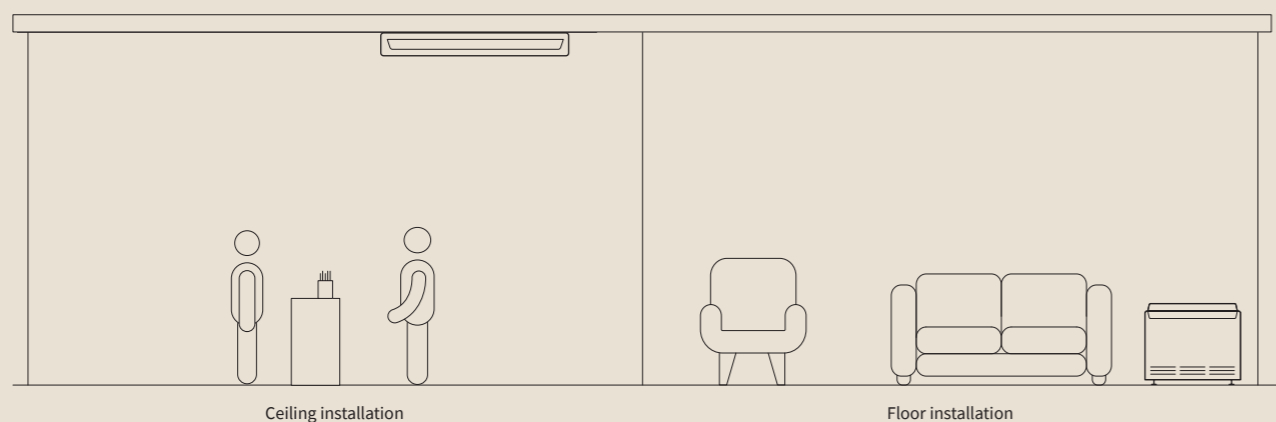
**Compatible with technical room applications**

The unit is fitted as standard with free inputs / outputs for a fault report or for remote start/stop control. Ideal for installation in a service room.

**New air intake**

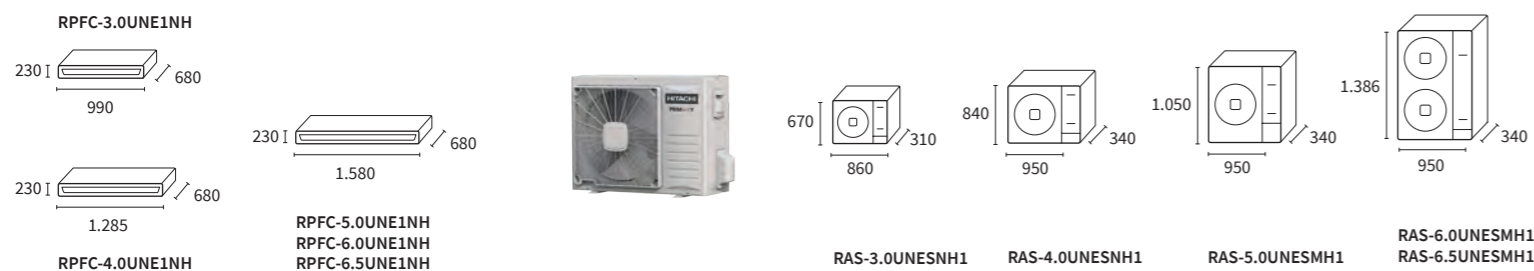
New air intake improves air quality indoors.

Fig. 1



**Indoor units**

**Outdoor units**



## Primary R410A (Floor-Ceiling)

Indoor units	Unit	RPF3-3.0UNE1NH	RPF3-4.0UNE1NH	RPF3-5.0UNE1NH	RPF3-6.0UNE1NH	RPF3-6.5UNE1NH
Capacity Cooling (min-max)	kW	6.75 (2.70 - 7.85)	10.23 (2.80 - 11.00)	12.05 (3.30 - 13.20)	12.89 (3.10 - 16.10)	14.42 (4.98 - 18.00)
Capacity Heating (min-max)	kW	8.21 (2.70 - 9.20)	11.25 (3.32 - 12.00)	14.00 (3.00 - 14.60)	16.12 (3.30 - 18.00)	17.59 (3.30 - 18.00)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	6.1	8.38	10.36	11.94	13
Sound pressure Cooling (Low - Medium - High) <sup>(2)</sup>	dB(A)	48/46/42	50/49/48	50/48/45	51/45/41	51/46/43
Sound power	dB(A)	64	65	67	68	68
Air flow Cooling (Low - Medium - High)	m³/h	1100/950/800	1700/1500/1300	2000/1800/1600	2000/1600/1200	2000/1700/1500
Dehumidification	l/h	1.8	2.5	3.2	4.0	4.5
Condensate pump				Yes (optional)		
Maximum lift height	mm			550		
Pipe diameter (Liq/gas)	Inch	3/8 - 5/8		3/8 - 3/4		
Condensate pipe diameter (out)	mm			25		
Dimensions (H x W x D)	mm	230 x 990 x 680	230 x 1285 x 680		230 x 1580 x 680	
Weight	kg	30	37	48		50
Electrical power	V/Ph/Hz			230 V/1 Ph/50 Hz		
Remote control				Infrared or wired		

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hi-ToolKit software.  
<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

Outdoor units	Unit	RAS-3.0UNESNH1	RAS-4.0UNESNH1	RAS-5.0UNESMH1	RAS-6.0UNESMH1	RAS-6.5UNESMH1
Absorbed power Cooling	kW	2.16	3.68	4.87	4.25	5.38
Absorbed power Heating	kW	2.39	3.75	4.50	5.15	6.40
EER/COP		3.12/3.43	2.78/3.00	2.48/3.11	3.03/3.13	2.68/2.75
Seasonal energy class (Cooling/Heating)		A+/A	A+/A	A/A	A+/A	A+/A
SEER/SCOP (medium climate)		5.79/3.92	6.07/3.97	5.41/3.79	5.99/3.80	5.90/3.80
Sound Pressure Cooling	dB(A)	53	54	58	53	58
Sound power	dB(A)	69	70		75	76
Pipe diameter (Liq/gas)	inch	3/8 - 5/8		3/8 - 3/4		
Air flow (Cooling/Heating)	m³/h	3000	3500	5800		6200
Initial refrigerant charge	kg	1.70	2.80	3.20	3.78	3.95
Pre-charged for	m			5		
Minimum length	m			5		
Maximum length	m/g/m			50		
Maximum height difference	m			30		
Dimensions (H x W x D)	mm	670 x 860 x 310	840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	
Weight	kg	51	70	85	113	117
Electrical power	V/Ph/Hz	230 V/1 Ph/50 Hz			400 V/3 Ph/50 Hz	
Maximum current	A	18.1	22.5	11.6	11.0	13.1
Cable diameter (EN 60 335-1)	mm²	3 x 2.5		3 x 4.0		
Indoor/outdoor wiring section (shielded)	mm²				4 x 1.5	
Guaranteed performances Cooling	°C				-15-48	
Guaranteed performances Heating	°C				-15-24	
Refrigerant					R410A	
Compressor	Type				ROTARY	

Single zone wired control	Ref.	X-RPFC-3.0UNE1NH	X-RPFC-4.0UNE1NH	X-RPFC-5.0UNE1NH	X-RPFC-6.0UNE1NH	X-RPFC-6.5UNE1NH
Kit Price	(pre-tax)					

Kit	Ref.					
Kit Price	(pre-tax)					

Single zone infrared control	Ref.	X-RPFC-3.0UNE1NH	X-RPFC-4.0UNE1NH	X-RPFC-5.0UNE1NH	X-RPFC-6.0UNE1NH	X-RPFC-6.5UNE1NH
Kit Price	(pre-tax)					

Éco-participation	Ref.					
Kit Price	(pre-tax)					

The kit includes: the ceiling system, the wired or infrared remote control with receiver, the outdoor unit.

## Compatible controls and accessories

**Wired control**  
HCWA21NEWH  
Option

**Condensate removal pump**  
P26(E)-1/P26(E)-2/P26(E)-3  
Option

Discover Primary



# Micro VRF IVX Comfort

A compact VRF solution to meet larger technical constraints



## Compact

The outdoor units are exceptionally compact, taking up just 0.23m<sup>2</sup> of floorspace.

## Easy installation

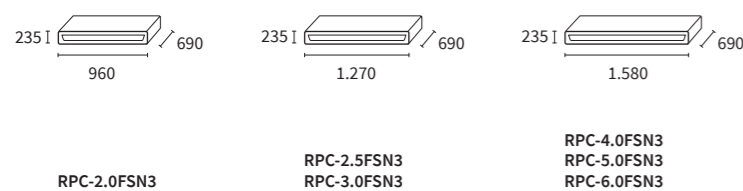
There are a range of options available to facilitate your installation:

- different types of electrical power supply
- wide operating range
- long pipe length
- on/off switches and fault report available
- compatible with all System Free control systems

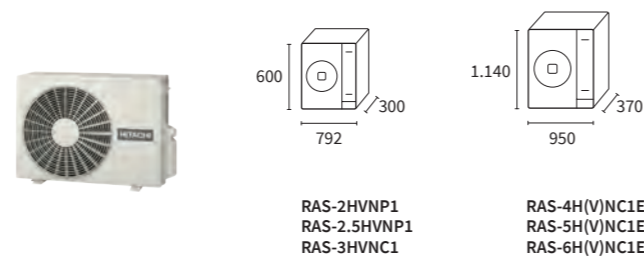
## Energy savings

The presence sensor (optional) optimizes comfort automatically while at the same time limiting energy consumption in areas which are not permanently occupied. It continuously analyses differences in heat and the presence of people in the room and adjusts its temperature setting (drop up to 2°C), ventilation speed and air flow direction.

### Indoor units



### Outdoor units



# Comfort Ceiling-mounted system

Indoor units	Unit	RPC-2.0FSN3	RPC-2.5FSN3	RPC-3.0FSN3	RPC-4.0FSN3	RPC-5.0FSN3	RPC-6.0FSN3
Capacity Cooling (min-max)	kW	5.00 (2.20 - 5.60)	5.60 (2.20 - 6.30)	7.10 (3.20 - 8.00)	10.00 (4.50 - 11.20)	12.50 (5.70 - 14.00)	14.00 (6.00 - 16.00)
Capacity Heating (min-max)	kW	5.60 (2.20 - 7.10)	6.30 (2.20 - 8.00)	8.00 (3.50 - 10.60)	11.20 (5.00 - 14.00)	14.00 (5.00 - 18.00)	16.00 (5.00 - 20.00)
Capacity at -7°C <sup>(1)</sup>	kW	4.80	5.80	6.30	10.10	10.50	12.00
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	28/31/35/38		29/33/37/40	32/37/42/44	35/41/45/48	36/42/47/49
Sound pressure	dB(A)	54		56	60	64	65
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	450/660/580/900	690/840/990/1140	750/930/1110/1260	1020/1320/1590/1800	1200/1530/1860/2100	1260/1620/1950/2220
Condensate pump		No					
Pipe diameter (Liq/gas):	inch	1/4 - 5/8		3/8 - 5/8			
Condensate pipe diameter (out)	mm	25					
Dimensions (H x W x D)	mm	235 x 960 x 690		235 x 1270 x 690		235 x 1580 x 690	
Weight	kg	27		35		41	
Electrical power		1~ 230V 50Hz					
Cable diameter (EN 60 335-1) <sup>(3)</sup>	mm <sup>2</sup>	3 x 1.5					
Remote control		PC-ARFP1E (infrared, optional simplified wired control)					

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs.  
<sup>(2)</sup> Sound pressure measurements were taken under the following conditions: 1 meter under the unit and 1 meter from the air louver.  
<sup>(3)</sup> Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.

Outdoor units	Unit	RAS-2HVNP1	RAS-2.5HVNP1	RAS-3HVNC1	RAS-4H(V)NC1E	RAS-5H(V)NC1E	RAS-6H(V)NC1E
Absorbed power in Cooling	kW	1.34	1.40	2.29	3.25	4.60	5.49
Absorbed power in Heating	kW	1.38	1.53	2.33	2.91	3.94	4.40
EER/COP		3.72/4.06	4.00/4.12	3.10/3.43	3.08/3.85	2.72/3.55	2.55/3.64
Energy class (Cooling/Heating)		A/A		B/B	B/A	D/B	E/B
SEER/SCOP (medium climate)		5.63/4.44	5.49/4.49	5.29/4.13	5.02(V) - 4.93/3.90	5.74(V) - 5.71/4.00	5.56(V) - 5.53/4.04
Seasonal energy class (Cooling/Heating)		A+/A+	A/A+	A/A+	B/A	-	-
Sound pressure Cooling (night mode) <sup>(2)</sup>	dB(A)	44 (42)	45 (43)	48 (46)	52 (50)		55 (53)
Sound pressure	dB(A)	62	63	66	68	69	71
Weight	kg	43		44	79	89	
Dimensions (H x W x D)	mm	600 x 792 x 300				1140 x 950 x 370	
Electrical power		1~ 230V 50Hz			3N~ 400V 50Hz (1~ 230V 50Hz)		
Maximum current	A	13.8	15.8	17.8	15.5 (28.5)		
Cable diameter (EN 60 335-1) <sup>(1)</sup>	mm <sup>2</sup>	3 x 2.50		3 x 4.00		5 x 4.00 (3 x 6.00)	
Indoor/outdoor wiring section (shielded)	mm <sup>2</sup>					2 x 0.75	
Pipe diameter (Liq/gas)	inch	1/4 - 1/2*					3/8 - 5/8
Maximum length/Additional refrigerant	m/g/m	50/30		50/40	70/40	75/60	75/60
Initial refrigerant charge	kg	1.6		1.9	3.2	2.9	3.2
Pre-charged for	m	30		20	30		
Air flow (Cooling/Heating)	m <sup>3</sup> /h	2436		2682	3720	4080	4800
Maximum height difference (highest OU/lowest OU)	m	30/20					
Guaranteed performance Cooling <sup>(2)</sup> /Heating	°C	(OPT) -15°C/+46°C (DB)//-20°C/+15°C (WB)					
Refrigerant		R410A					
Compressor		SCROLL					

<sup>(1)</sup> Information provided for informational purposes only. The person fitting the equipment is responsible for checking that these cable diameters meet installation requirements and correspond to applicable standards.  
<sup>(2)</sup> The option must be enabled to ensure a cold mode at -15°C.  
 \* Pipes leaving the indoor unit same diameter as the outdoor unit. Adapt as required.

Price	Ref.	X-RPC-2.0HVNP1	X-RPC-2.5HVNP1	X-RPC-3.0HVNC1	X-RPC-4.0H(V)NC1E	X-RPC-5.0H(V)NC1E	X-RPC-6.0H(V)NC1E
Single-phase kit price	(pre-tax)						
Three-phase kit price	(pre-tax)		-				
<b>Environmental contribution</b>							
Kit	(pre-tax)						

It is in addition to the net price.  
 The kit includes the indoor unit, wired control PC-ARFP1E and the outdoor unit.

## Compatible controls and accessories (see DRV Controls tab)

Simplified wired control PC-ARH1E	Infrared control PC-AWR	User-friendly wfunction wired control PC-ARFP1E
Remote sensor THM-R2AE	Infrared receiver PC-ALHC1 (integrated)/PC-ALHZ1 (external)	Condensate removal kit DBS-26 (IVX Comfort 4HP models) DBS-12L (IVX Comfort 2/2.5/3HP models)
Presence sensor SOR-NEP	Connectors PCC-1A	

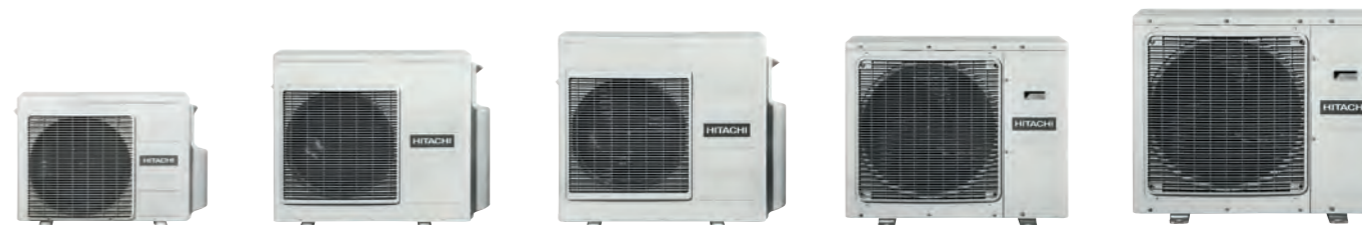
The standard multi-splits range comprises 5 outdoor units capable of air conditioning up to five different areas with the same unit. The capacity of its units and its wide-ranging combinations mean it can be adapted to suit all installation configurations

The new Dodai 2 multi-splits range features 2 and 3 outputs to connect up to 3 Dodai 2 indoor wall units



# Multi-splits

Standard multi-split outdoor units



Indoor units



Dodai 2 multi-split outdoor units



Indoor units



\* JOHNSON CONTROLS - HITACHI AIR CONDITIONING EUROPE SAS participate in the Eurovent Certification Program for the AC/RF/LCP-HP categories. Information on certified models can be found in the Eurovent Directory ([www.eurovent-certification.com](http://www.eurovent-certification.com)).



# Quick selection guide

RAM- NPE standard multi-split outdoor units		Nom. capacity Cooling (kW)	3.3	4.0	5.3	6.8/7.0	8.5	10.0	
Capacity at full charge at -7°C Heating (kW)		Up to 3.5	Up to 4.0	Up to 5.5	Up to 6.5	Up to 7.8	Up to 8.0		
	 (3.3 and 4.0 kW)	2 outputs	SEER A+++ 8.50 SCOP A++ 4.60	SEER A+++ 8.50 SCOP A++ 4.60	SEER A+++ 8.50 SCOP A++ 4.60				HYBERNATE Putting electronic components into standby mode
	 (5.3 and 6.8 kW)	3 outputs			SEER A+++ 8.50 SCOP A++ 4.60	SEER A++ 8.10 SCOP A++ 4.60			HIGH CAPACITY at -7°C
	 (7.0 kW)	4 outputs				SEER A++ 8.10 SCOP A++ 4.60			VECTOR CONTROL Compressor control at very low frequency Reduced sound level Energy savings
	 (8.5 and 10.0 kW)	5 outputs				SEER A++ 7.90 SCOP A++ 4.30	SEER A++ 6.52 SCOP A++ 4.22		

Compatible indoor units

Mono/Multi-Splits indoor units

<b>Takai wall</b> RAK-18QXE 25-50 RXE	<b>Mokai wall</b> RAK-15QPE RAK-18-50RPE	<b>Light commercial wall</b> RAK-60RPE	<b>Cassette 600x600 R32</b> RAI-25~60RPE	<b>Shirokuma console</b> RAF-25-50RXE	<b>R32 Ducted</b> RAD-18QPE RAD-25-60RPE

RAM-NEF Dodai 2 multi-split outdoor units

RAM-NEF Dodai 2 multi-split outdoor units		Nom. capacity Cooling (kW)	4.0	5.3
Capacity at full charge at -7°C Heating (kW)		Up to 3,5	Up to 4,3	
	 (4 and 5.3 kW)	2 outputs	SEER A++ 8.25 SCOP A+ 4.30	SEER A+++ 8.10 SCOP A+ 4.10
	 (5.3 kW)	3 outputs		SEER A+++ 8.10 SCOP A+ 4.10

Compatible indoor units



Mono/Multi-Splits indoor units

<b>Dodai 2</b> RAK-15QEF RAK-18-50REF

# Benefits Multi-splits

## 1 Discrete and harmonious design



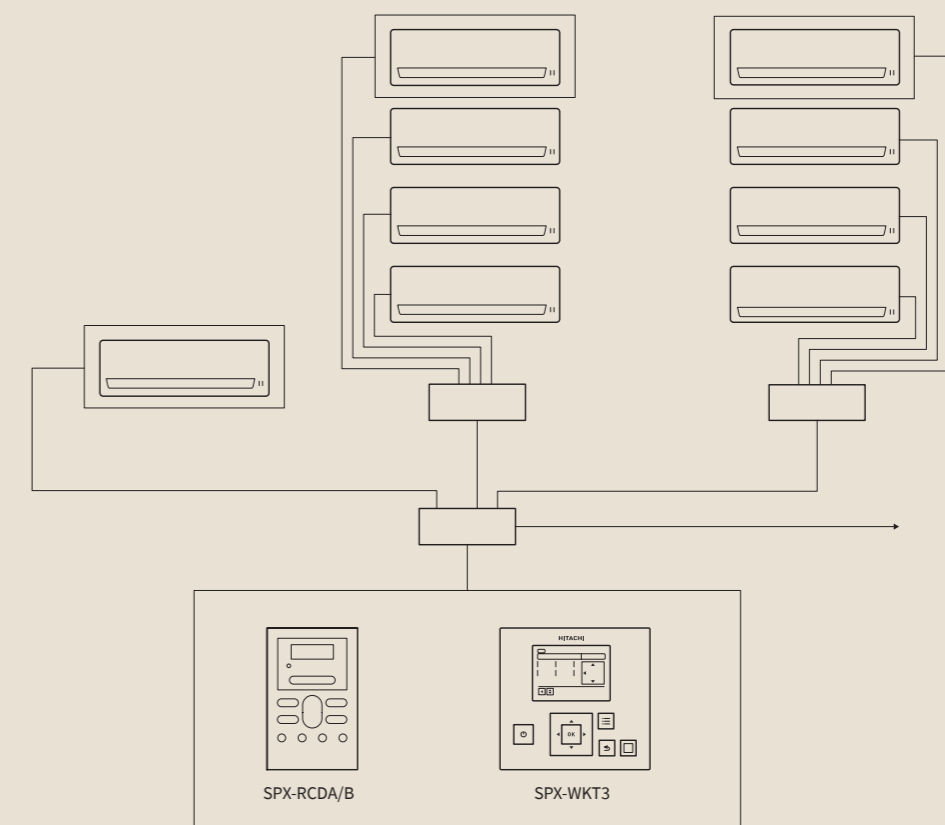
Thanks to their harmonized design, the Shirokuma and Takai consoles are perfectly suited to all interiors.

## 2 Simplified maintenance and installation



- The ducted type units adapt the static pressure according to the requirements of individual installations.
- The bi-split outdoor units are delivered pre-charged with R32 refrigerant. No additional refrigerant is required. This means savings on installation costs and times.
- Alarm codes are indicated on the remote control, saving troubleshooting time.

## 3 Regulation solutions for centralized installation control



- Centralized control of up to 13 indoor units with the SPX-WTK3 wired control unit and SPX-DST1 + SPX-WDST8M box

# Multi-splits

R32 standard outdoor units



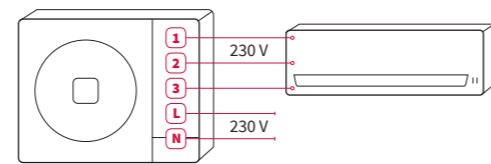
Ref.	RAM-33NP2E	RAM-40NP2E	RAM-53NP2E	RAM-53NP3E	RAM-68NP3E	RAM-70NP4E	RAM-90NP5E	RAM-110NP5E
Number of connectible units (min-max)	2		2/3		2/4		2/5	
Capacity Cooling (min-max)	3.3 (1.50 - 3.80)		5.30 (1.50 - 6.60)		7.00 (2.40 - 8.80)		10.00 (1.50 - 12.50)	
Capacity Heating (min-max)	4.00 (1.50 - 4.60)		6.80 (1.50 - 7.20)		8.50 (2.40 - 9.50)		12.00 (1.50 - 12.70)	
Capacity at full charge at -7°C <sup>(1)</sup>	3.20		4.50		6.50		8.00	
Absorbed nom. capacity Cooling (min-max)	0.73 (0.20 - 1.05)		1.26 (0.20 - 1.66)		1.89 (0.46 - 3.20)		3.096 (0.50 - 4.50)	
Absorbed nom. capacity Heating (min-max)	0.90 (0.20 - 1.50)		1.61 (0.20 - 2.01)		2.02 (0.48 - 3.12)		3.158 (0.50 - 5.00)	
EER/COP	4.50/4.40		4.20/4.20		3.70/4.00		3.23/3.8	
SEER/SCOP (medium climate)	8.50/4.60		8.10/4.60		7.90/4.30		6.52/4.22	
Seasonal energy class (Cooling/Heating)	A+++ / A++		A++ / A++		A++ / A++		A++ / A+	
Sound Pressure Cooling	48		50		53		54	
Sound pressure	47/60		50/61		57/63		57/66	
Air flow (Cooling/Heating)	1620/1620		2160/2160		2700/2700		3900/3900	
Dimensions (HxWxD)	570 x 750 x 280		750 x 850 x 298		800 x 850 x 298		800 x 950 x 370	
Weight	38		53		58		76	
Electrical power	220 - 230V							
Maximum current	6		8		10		12	
Cable diameter (EN 60 335-1)	2.50 x 2+T							
Indoor/outdoor wiring section	1.50 x 3+T							
Pipe diameter (Liq/gas)	(1/4 x 2 / 3/8 x 2)		(1/4 x 3 / 3/8 x 3)		(1/4 x 4 / 3/8 x 3 + 1/2 x 1)		1/4 x 5 / (3/8 x 3) + (1/2 x 2)	
Initial refrigerant charge	1.02		1.80		2.05		2.40	
Pre-charged for	35		30		35		30	
Minimum length	3							
Maximum length/Additional refrigerant	35 / -		60/20		75/15		75/13	
Maximum height difference	15		20		20		20	
Operating range Cooling	-10°C/+46°C							
Operating range Heating	-15°C/+24°C							
Refrigerant	R32							
Compressor	ROTARY		TWIN ROTARY					
Outdoor unit price (pre-tax)								
Outdoor unit price (pre-tax)								

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hi-ToolKit for business software.

## Please note

The returned capacity of each indoor unit depends on the outdoor unit, the selected combination, pipe length and outdoor temperature. The pipe length used to determine the values above is 10m. Total capacity cannot exceed the unit capacity; please refer to the combination table. For more information on selecting, please refer to our technical documentation or use the Hi-ToolKit software.

Indoor units are powered with 220-230 V from the outdoor unit.



## Compatible controls and accessories

Programmable wired control  
SPX-WKT3  
Pre-tax price: P. <?>

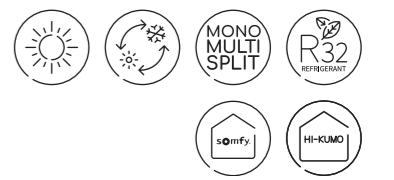
Infrared remote control  
SPX-RCKA1 for ducted  
SPX-RCKA2 for RAK-60RPE  
SPX-RCKA3 for cassette  
Pre-tax price: P. <?>

Simplified wired control  
SPX-RCDA  
Pre-tax price: P. <?>

Simplified wired control  
SPX-RCDB  
Pre-tax price: P. <?>

# Multi-splits

Indoor units



Takai wall



## Takai wall range

Perfectly suited to all installation types, with special models available for smaller surface areas. The size 18 model can be switched to reduce capacity (1.8 kW > 1.2 kW\* cooling and 2.5 kW > 1.8 kW\* heating).

## Presence sensor

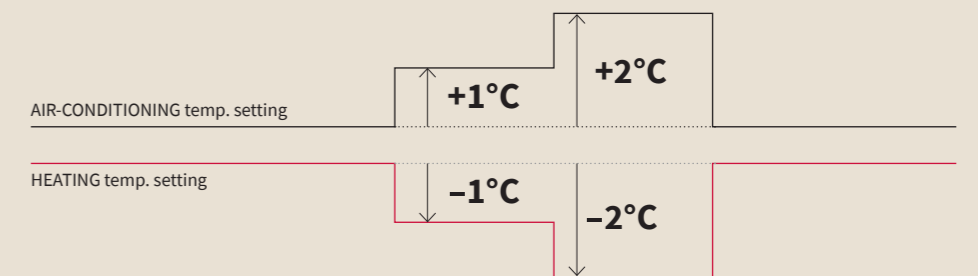
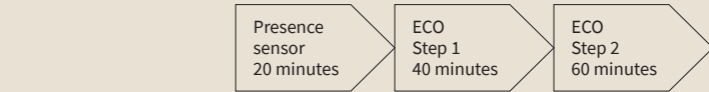
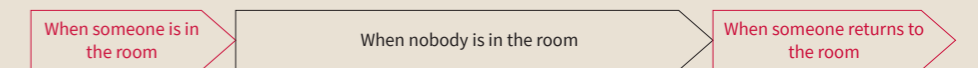
It adjusts indoor unit operation depending on whether anyone is in the room. See Eco Sensor illustration opposite.

## Ultra-efficient filtration

STAINLESS pre-filters and Active Carbon filters as standard.

## Extra quiet units

20 dB(A) for size 25.



Ref.	RAK-18QXE	RAK-25RXE	RAK-35RXE	RAK-50RXE
Capacity Cooling (min-max)	kW 1.80 (1.00 - 2.50) 2.50 (0.90 - 3.10) 3.50 (0.90 - 4.00) 5.00 (1.90 - 5.20)			
Capacity Heating (min-max)	kW 2.50 (1.10 - 3.20) 3.20 (0.90 - 4.20) 4.00 (0.90 - 4.80) 5.80 (2.20 - 7.00)			
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A) 20/25/30/36 20/27/35/43 22/29/37/45 25/31/39/47			
Sound pressure	dB(A) 49 58 60			
Air flow Cooling (Very low - Low - Medium - High)	m³/h 300/330/430/500 300/330/510/600 320/340/520/660 350/400/580/720			
Dehumidification	l/h 1.2 1.4 1.6 2.0			
Dimensions (H x W x D)	mm 295 x 900 x 210			
Pipe diameter (Liq/gas)	inch 1/4 - 3/8			
Weight	kg 11.0			
Electrical power	V 220 - 230V			
Cable diameter (EN 60 335 - 1)	mm² 3 x 1.50+T 3 x 2.50+T			
Remote control	infrared weekly RAR-6NE1 (included)			
Indoor unit price (pre-tax)				
Indoor unit price (pre-tax)				

# Multi-splits

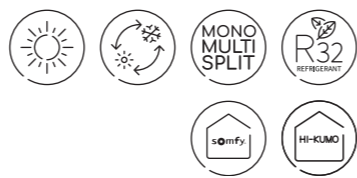
## Indoor units

Multi-splits indoor units

### Mokai Wall and Small Commercial



**The Mokai Wall range**  
 Perfectly suited to all installation types, with special models available for smaller surface areas.  
 The size 15 model can be switched to reduce the capacity (1.5 kW > 1 kW\* cooling and 2 kW > 1.5 kW\* heating).



	Unit	RAK-15QPE	RAK-18RPE	RAK-25RPE	RAK-35RPE	RAK-42RPE	RAK-50RPE	RAK-60RPE
Capacity Cooling (min-max)	kW	1.50 (0.90 - 2.00)	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)	6.00 (1.20 - 6.50)
Capacity Heating (min-max)	kW	2.00 (1.00 - 2.50)	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.70 - 6.00)	6.00 (2.20 - 7.30)	7.00 (1.20 - 8.00)
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(1)</sup>	dB(A)	20/24/30/34	21/24/33/37	22/24/33/40	25/26/36/43	25/28/39/46	25/28/39/46	30/33/42/48
Air flow Cooling (Very low - Low - Medium - High)	m³/h	312/350/400/420	312/350/400/440	333/370/430/510	353/420/485/680	353/410/540/720	353/410/540/750	310 / 410 / 570 / 720
Dehumidification	l/h	1.20	1.20	1.40	1.60	1.80	2.00	2.8
Dimensions (H x W x D)	mm	280 x 780 x 230						300 x 900 x 230
Pipe diameter (Liq/gas)	inch	1/4 - 3/8			1/4 - 1/2			
Weight	kg	8.5						11.5
Electrical power	V	220 - 230V						
Cable diameter (EN 60 335 - 1)	mm²	3 x 1.50+T			3 x 2.50+T			3 x 1.50+T
Remote control		infrared weekly RAR-6NE1 (included)						Not supplied (SPX-RCKA2 / SPX-RCDB / SPX-WKT3)
Indoor unit price	(pre-tax)							
	(pre-tax)							

<sup>(1)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

### Cassette 600 × 600



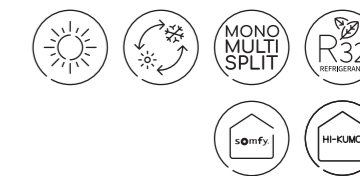
Indoor units	Unit	RAI-25RPE	RAI-35RPE	RAI-50RPE	RAI-60RPE
Capacity Cooling (min-max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
Capacity Heating (min-max)	kW	3.50 (0.90 - 5.00)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Capacity at full charge at -7°C with defrosting <sup>(1)</sup>	kW	2.70	3.20	4.20	4.80
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	27/31/35/38	27/33/37/40	29/35/39/43	
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	28/32/36/39	28/34/38/41	30/36/40/44	
Sound pressure	dB(A)	54	56	56	
Air flow Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	m³/h	360/505/590/660		390/540/630/720	
Dehumidification	l/h	1.4	1.8	2.8	3.8
Dimensions (H x W x D)	mm	285 x 570 x 570			
Dimensions facade (H x W x D)	mm	30 x 620 x 620			
Condensate pipe diameter (out)	mm	32			
Condensate pump		yes			
Pipe diameter (Liq/gas)	inch	1/4 - 3/8		1/4 - 1/2	1/4 - 1/2
Case weight	kg	17			
Facade weight	kg	2.8			
Reference of facade		P-AP56NAM5			
Electrical power	V	220 - 230V			
Cable diameter (EN 60 335-1)	mm²	1.5 x 3+T			
Remote control		Not supplied (SPX-RCKA3 / SPX-RCDB / SPX-WKT3)			
Indoor unit price	(pre-tax)				
	(pre-tax)				
	(pre-tax)				

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hi-ToolKit software.

<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

\* Information pending.

## Shirokuma console



Multi-splits

### Extended air flow

Thanks to a larger **dynamic air flow**, air can reach all parts of the room. The room is air-conditioned (heating or cool air) at the touch of a button on the remote control. (Fig. 1)

### High performance

The console's energy class is A+++.  
 Energy savings - guaranteed!

### Compatible with Hi Kumo

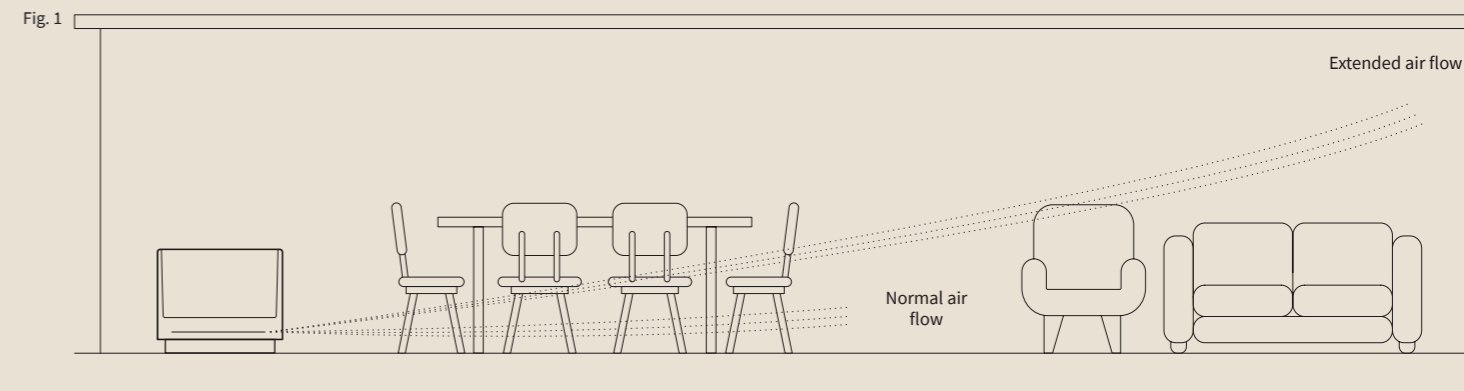
The entire Hitachi residential range is compatible with the Hi Kumo system which can control equipment from **any mobile device** which acts as a remote control.

### Control options

The console comes with an infrared remote control as standard. It is also compatible with the SPX-WKT3 wired control with timer.

### Flexibility with the Multi-splits range

The Shirokuma console indoor unit is compatible with all outdoor units multi-splits. This means that several indoor units can be installed in different rooms with the same outdoor unit.



Indoor units	Unit	RAF-25RXE	RAF-35RXE	RAF-50RXE
Capacity Cooling (min-max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (0.90 - 5.20)
Capacity Heating (min-max)	kW	3.40 (0.90 - 4.40)	4.50 (0.90 - 5.00)	6.00 (0.90 - 8.10)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	3.10	3.80	5.00
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	20/26/31/38	20/26/31/39	22/29/36/43
Sound pressure	dB(A)	52		56
Air flow Cooling (Very low - Low - Medium - High)	m³/h	270/390/510/630	270/390/510/660	300/450/540/720
Dehumidification	l/h	1.4	1.9	2.8
Dimensions (H x W x D)	mm	590 x 750 x 215		
Condensate pipe diameter (out)	mm	16		
Pipe diameter (Liq/gas)	inch	1/4 - 3/8		1/4 - 1/2
Weight	kg	15		
Electrical power	V	220 - 230 V		
Cable diameter (EN 60 335-1)	mm²	3 x 1.50+T		3 x 2.50+T
Remote control		infrared weekly RAR-6NE1 (included)		
Indoor unit price	(pre-tax)			
	(pre-tax)			

<sup>(1)</sup> Data includes defrosting. For the data corresponding to your project, use our technical catalogs or the Hi-ToolKit software.

<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).

## Compatible controls and accessories

### Leak detector

SPX-RAFGLS

Pre-tax price:



### Programmable wired control

SPX-WKT3

Pre-tax price:



### Infrared remote control

SPX-RCKA1 for ducted  
 SPX-RCKA2 for RAK-60RPE  
 SPX-RCKA3 for cassette

Pre-tax price:



### Simplified wired control

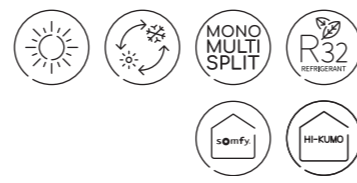
SPX-RCDB

Pre-tax price:

# Multi-splits

Indoor units

Ducted



### Ducted indoor units

They now feature static pressure control: from 40 to 150 Pa.

### Plenums (optional)

- Air delivery plenum 2 x D200.  
- Return plenum 2 x D200 (with or without filter holder).

### Remote sensor (optional)

For maximum residential comfort  
- Reference: SPX-RTH1  
- Price (pre-tax):

Indoor units	Unit	RAD - 18QPE	RAD-25RPE	RAD-35RPE	RAD-50RPE	RAD-60RPE
Capacity Cooling (min-max)	kW	1.80 (0.90 - 2.50)	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
Capacity Heating (min-max)	kW	2.50 (0.90 - 3.20)	3.50 (0.90 - 5.50)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Capacity at full charge at -7°C <sup>(1)</sup>	kW	*	2.50	3.20	4.20	5.00
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	30/33/37/41		29/32/35/39		
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	330/390/450/510	30/34/38/42		29/32/35/40	
Sound pressure <sup>(2)</sup>	dB(A)	57		53		
Air flow Cooling (Very low - Low - Medium - High)	m³/h	330/390/450/510		350/540/800/1140		
Static pressure (Low - Medium - High)	Pa	* / * / 70		50/100/150		
Dehumidification	l/h	1.4	1.6		2.8	2.8
Dimensions (H x W x D)	mm	235 x 750 x 400				270 x 900 x 720
Condensate pipe diameter (out)	mm					16
Condensate pump						YES
Pipe diameter (Liq/gas)	Inch	1/4 - 3/8		1/4 - 1/2		
Weight	kg	16		35		
Electrical power	V					220 - 230V
Cable diameter (EN 60 335-1)	mm²	1.50 x 3+T		2.50 x 3+T		
Remote control						Not supplied (SPX-RCKA1 / SPX-RCDB / SPX-WKT3)
* Information pending.						
Indoor unit price	(pre-tax)					
	(pre-tax)					

\* Information pending.

Reference	Description	Length	Height	Depth	Compatibility	Number of connections
PIM1SOURADNH	PLENUM ISOLATED M1 2XD200 AIR DELIVERY	720	200	300+ 50	RAD-18QPE* / RAD 25-35RPE	2 x 200
PIM1REPRADNH	PLENUM ISOLATED M1 2XD200 RETURN	655	205	200+ 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1REPRADNH	PLENUM ISOLATED M1 FilterHolder 2XD200 RETURN	655	205	200+ 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1SOURADDH	PLENUM ISOLATED M1 3XD200 AIR DELIVERY	810	225	250+ 50	RAD-50-60RPE / RAD-70PPD	3 x 200
PIM1REPRADDH	PLENUM ISOLATED M1 2XD200 RETURN	820	225	200+ 50	RAD-50-60RPE / RAD-70PPD	2 x 200

\* Available in multi only

# Connected and user-friendly interfaces



### Airzone Blueface thermostat

Wired connection/3.5" touchscreen: Configurable as Main or zone thermostat. Numerous functions and settings, ideal for maximum control of your entire system: more efficient and responsible heating. Complete and user-friendly interface. Eco-adapt function and standby function for real energy savings. Control the temperature, operating mode and ventilation speed. Timer. Access forecasts (via the Webserver Airzone Cloud connection) to anticipate weather changes.



### Airzone Think thermostat

Wired or remote connection/2.7" screen: Configurable as Main or zone thermostat. Low consumption device: the easy way to cut energy costs. Attractive and user-friendly interface. Control the temperature, operating mode and ventilation speed. Access forecasts (via the Webserver Airzone Cloud connection) to anticipate weather changes.



### Airzone Lite thermostat

Wired or remote connection: Within an installation with the Blueface interface, this is the ideal solution for rapid access to main functions. Its modern and fun interface uses colors to indicate the mode and zone temperature. Zone start/stop function. Control the temperature setting by 1°C increments with amplitudes of ±3°C.



### Airzone Cloud webserver

The Airzone Cloud application for smartphone, tablet and PC offers full remote control of the installation anywhere, anytime! Several servers and up to 32 systems can be controlled simultaneously with a single webserver. All your thermostat functions are located in the Cloud: Temperature control, timer, Weather forecasts, access rights...

Interface	Airzone Blueface	Airzone Think	Airzone Lite	Airzone Cloud webserver
Reference	AZCE6BLUEFACEB	AZCE6THINKCB	AZCE6LITECB	AZX6WSCLOUDDINC
Remote Connection	-	AZCE6THINKRB	AZCE6LITERB	AZX6WSCLOUDDINR
10M cable	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10

Residential Application	Ducted Ref-erences	Capacity	Plenum ver-sion	Motorized air delivery plenums					Return plenum
				2 outputs	3 outputs	4 outputs	5 outputs	6 outputs	
RAD-RPE	5.0kW 6.0kW 7.0kW	Standard	AZEZ6HITST03M2 930 x 300 x 454	AZEZ6HITST03M3 930 x 300 x 454	AZEZ6HITST03M4 1140 x 300 x 454	AZEZ6HITST03M5 1425 x 300 x 454	AZEZ6HITST03M6 1638 x 300 x 454	AZCEZHIPR03M 818 x 223.8 (2xD250)	
		Public price pre-tax	AZEZ6HITBS03M2 930 x 250 x 454	AZEZ6HITBS03M3 930 x 250 x 454	AZEZ6HITBS03M4 1140 x 250 x 454	AZEZ6HITBS03M5 1425 x 250 x 454	AZEZ6HITBS03M6 1638 x 250 x 454		
		Medium	AZEZ6HITST04S2 930 x 300 x 454	AZEZ6HITST04S3 930 x 300 x 454	AZEZ6HITST04S4 1140 x 300 x 454			AZCEZHIPR04S 647.2 x 208.1 (1x D250)	
		Public price pre-tax	AZEZ6HITBS04S2 930 x 250 x 454	AZEZ6HITBS04S3 930 x 250 x 454	AZEZ6HITBS04S4 1140 x 250 x 454				

There are two versions of plenums available: standard version (300 mm) and medium version with new air supply (250 mm). Plenum dimensions are indicated under the reference.

## Compatible controls and accessories

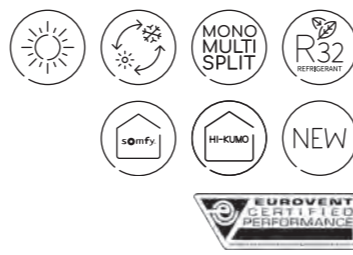
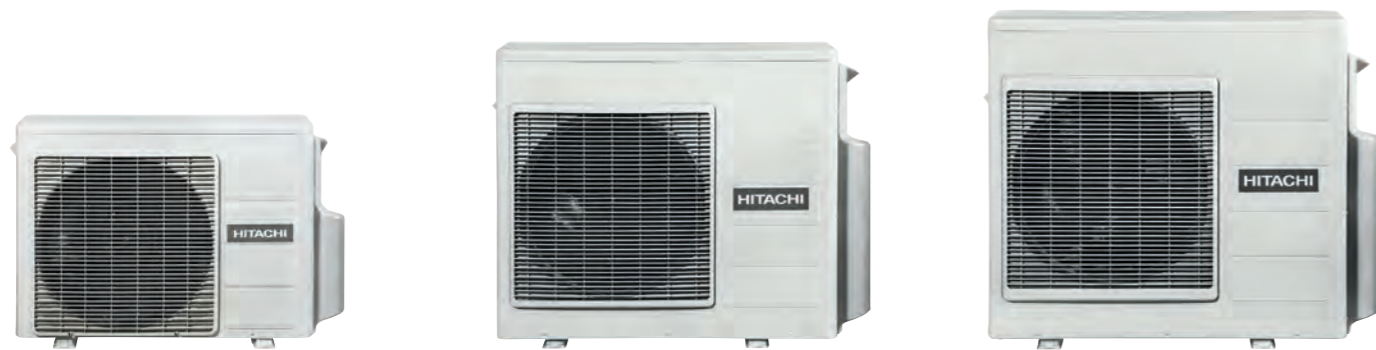
Programmable wired control  
SPX-WKT3  
Pre-tax price:

Infrared remote control  
SPX-RCKA1 for ducted  
SPX-RCKA2 for RAK-60RPE  
SPX-RCKA3 for cassette  
Pre-tax price:

Simplified wired control  
SPX-RCDA  
Pre-tax price:

# Multi-splits

Dodai 2 outdoor units



Outdoor units	Unit	RAM-40NE2F	RAM-53NE2F	RAM-53NE3F
Number of connectible units (min-max)		2 / 2		2 / 3
Capacity Cooling (min-max)	kW	4,0 (1,5-4,4)		5,3 (1,5-6,0)
Capacity Heating (min-max)	kW	5,1 (1,5-5,5)		6,3 (1,5-6,6)
Absorbed nom. capacity Cooling (min-max)	kW	1,026 (0,25-1,27)	1,293 (0,35-1,71)	1,293 (0,35-2,16)
Absorbed nom. capacity Heating (min-max)	kW	1,243 (0,25-1,70)		1,615 (0,35-2,25)
EER/COP		3,90 / 4,10		4,10 / 3,90
SEER/SCOP (medium climate)		8,25 / 4,30		8,10 / 4,10
Seasonal energy class (Cooling/Heating)			A++/A+	
Sound Pressure Cooling	dB(A)	49		50
Sound pressure	dB(A)	60		61
Air flow (Cooling/Heating)	m <sup>3</sup> /h	1620 / 1620		2160 / 2160
Dimensions (HxWxD)	mm	570 x 750 x 280		750 x 850 x 298
Weight	kg	41	51	52
Electrical power			220 - 230V	
Maximum current	A	6		8
Cable diameter (EN 60 335-1)	mm <sup>2</sup>		2 x 2,5 +T	
Indoor/outdoor wiring section	mm <sup>2</sup>		3 x 1,5 +T	
Pipe diameter (Liq/gas)	inch		(1/4" x 2 / 3/8" x 2)	
Initial refrigerant charge	kg	0,93		1,59
Pre-charged for	m		35	
Minimum length	m		3	
Maximum length/Additional refrigerant	m/g/m		35/-	45/20
Maximum height difference	m	10		20
Operating range Cooling	°C		-10°C / 46°C	
Operating range Heating	°C		-15°C / 24°C	
Refrigerant			R32	
Compressor			Rotatif	

# Multi-splits

Indoor units

Dodai 2 wall



## Compatible with the Hi Kumo remote control

This application allows you to turn the unit on or off, raise or lower the temperature or set the timer from wherever you may be around the world. All you need is a smartphone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

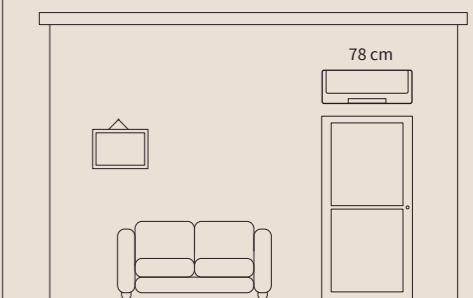
## Maximum space savings

It's small enough for discrete installation. Above a door, for example, because it is only 780 mm wide. (Fig. 1)

## Silent operation

Enjoy complete comfort without even noticing that the indoor unit is on, thanks to its low sound level of only 19dB\*.

Fig. 1





Indoor units	Unit	RAK-15QEF*	RAK-18REF	RAK-25REF	RAK-35REF	RAK-50REF
Capacity Cooling (min-max)	kW	1.50 (0.90 - 2.00)	1.8 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Capacity Heating (min-max)	kW	2.00 (1.00 - 2.50)	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	6.00 (2.2 - 7.30)
Sound pressure Cooling (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	21/24/33/37	21/24/33/37	22/24/33/40	25/26/36/43	28/30/40/46
Sound pressure Heating (Very low - Low - Medium - High) <sup>(2)</sup>	dB(A)	19/22/33/38	19/22/33/38	20/23/34/41	26/27/36/44	25/30/39/47
Sound pressure	dB(A)	52	51	54	57	60
Air flow Cooling (Very low - Low - Medium - High)	m <sup>3</sup> /h	312/350/400/440	312/350/400/440	333/370/430/510	333/400/485/600	333/450/600/700
Dehumidification	l/h	1.2	1.2	1.4	1.6	2.0
Dimensions (H x W x D)	mm	280 x 780 x 215				
Pipe diameter (Liq/gas)	Inch	1/4 - 3/8				1/4 - 1/2
Weight	kg	7.5				8
Electrical power	V	220 - 230V				
Cable diameter (EN 60 335-1)	mm <sup>2</sup>	1.50 x 2+T				2.50 x 2+T
Remote control		infrared RAR-7PE1 (included)				


<sup>(2)</sup> Sound pressure measurements were taken at 1 meter from the unit free field (refer to the technical catalog).


\* Available in multi only

## Compatible controls and accessories

 **Infrared remote control**  
Included  
RAR-7PE1

 **Simplified wired control**  
SPX-RCDB  
Pre-tax price:

 **Programmable wired control**  
SPX-WKT3  
Pre-tax price:

 **H-Link box**  
PSC-6RAD  
Pre-tax price:

### Others\*:

- Multi-indoor units control box SPX-DST1 + SPX-WDST8M
- Hi Kumo Wifi gateway SPX-WFG01:
- Hi-Box AHP-SMB-01 :
- Hi Kumo gateway for Hi-Box SPX-TAG01:
- Dry contact kit only SPX-WDC3:
- Fault report kit only SPX-WDC7 + HA-S100TSA



# Indoor unit combinations

## Dodai 2 multi-splits

RAM - 33NP2E	COOLING MODE				HEATING MODE				
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP	
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (250 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77
	18	1.80	1.80 (1.00 - 2.50)	455 (250 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62
	25	2.50	2.50 (1.00 - 3.10)	650 (250 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54
	35	3.50	3.50 (1.00 - 3.80)	780 (250 - 1300)	4.49	4.00	4.60 (1.10 - 4.60)	1200 (250 - 1300)	3.33

2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 2.80)	730 (250 - 780)	4.11	2.00 + 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	730 (250 - 1050)	4.52	1.78 + 2.22	4.00 (1.50 - 4.60)	900 (250 - 1020)	4.44
	15 + 25	1.24 + 2.06	3.30 (1.50 - 3.80)	950 (250 - 1050)	3.47	1.45 + 2.55	4.00 (1.50 - 4.60)	1080 (250 - 1500)	3.70
	15 + 35	0.99 + 2.31	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.18 + 2.82	4.00 (1.50 - 4.60)	1230 (250 - 1500)	3.25
	18 + 18	1.65 + 1.65	3.30 (1.50 - 3.80)	1050 (250 - 1050)	3.14	2.00 + 2.00	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	18 + 25	1.38 + 1.92	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.67 + 2.33	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	18 + 35	1.12 + 2.18	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.37 + 2.63	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	25 + 25	1.65 + 1.65	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	2.00 + 2.00	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20

\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
 \*\*RAM-40NE2F+ RAK-18RPE + RAK-18RPE

RAM - 40NP2E	COOLING MODE				HEATING MODE				
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP	
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (200 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77 A
	18	1.80	1.80 (1.00 - 2.50)	455 (200 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62 A
	25	2.50	2.50 (1.00 - 3.10)	650 (200 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54 B
	35	3.50	3.50 (1.00 - 4.00)	780 (200 - 1150)	4.49	4.80	4.80 (1.10 - 5.00)	1200 (250 - 1300)	4.00 A

2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 2.80)	700 (200 - 780)	4.29	2.00 + 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49 A
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	730 (200 - 930)	4.52	2.00 + 2.50	4.50 (1.50 - 5.00)	940 (250 - 1020)	4.79 A
	15 + 25	1.50 + 2.50	4.00 (1.50 - 4.00)	950 (200 - 1150)	4.21	1.89 + 3.31	5.20 (1.50 - 5.50)	1080 (250 - 1500)	4.81 A
	15 + 35	1.20 + 2.80	4.00 (1.50 - 4.20)	1100 (200 - 1150)	3.64	1.53 + 3.67	5.20 (1.50 - 5.50)	1230 (250 - 1500)	4.23 A
	18 + 18	1.80 + 1.80	3.60 (1.50 - 4.00)	1050 (200 - 1050)	3.43	2.50 + 2.50	5.00 (1.50 - 5.00)	1250 (250 - 1500)	4.00 A
	18 + 25	1.67 + 2.33	4.00 (1.50 - 4.20)	1090 (200 - 1150)	3.67	2.17 + 3.03	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A
	18 + 35	1.36 + 2.64	4.00 (1.50 - 4.20)	1130 (200 - 1150)	3.54	1.78 + 3.42	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A
	25 + 25	2.00 + 2.00	4.00 (1.50 - 4.20)	1150 (200 - 1150)	3.48	2.60 + 2.60	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A

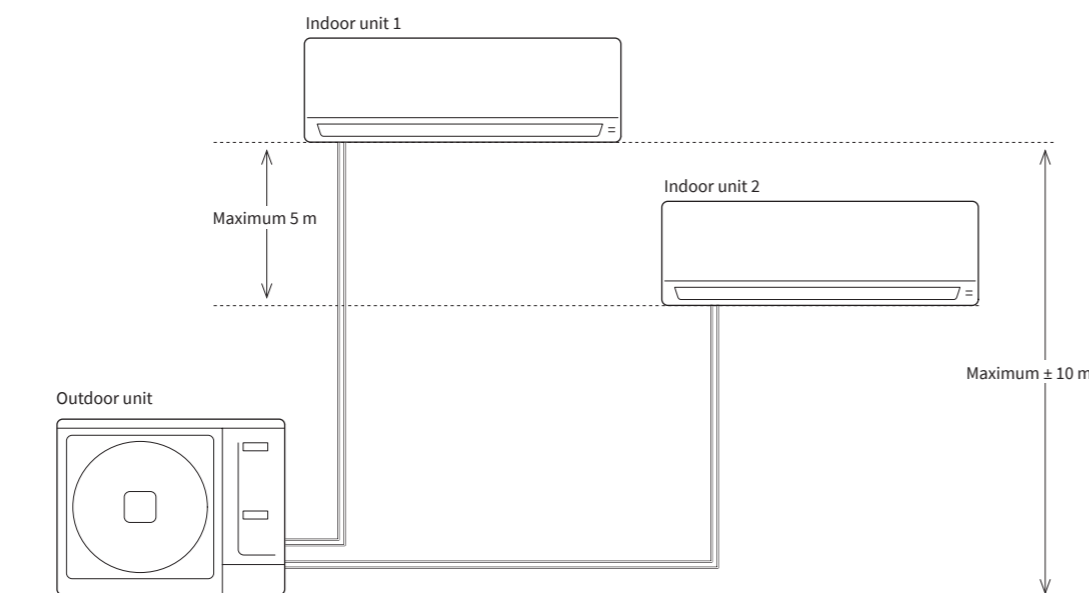
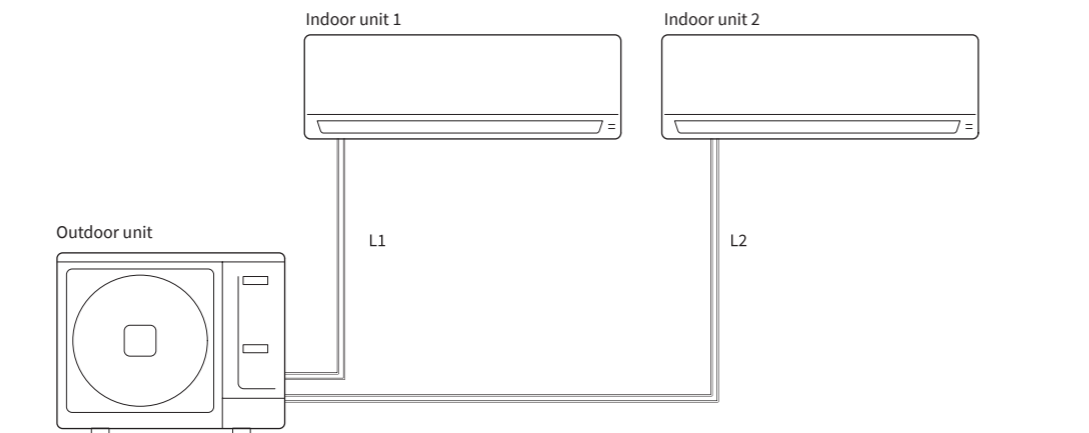
\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
 (1) For each output corresponding to units 42, 50 and 60, a refrigerant adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM-53NE2F+ RAK-18QXE + RAK-35RXE.

### Refrigerant lengths

#### RAM - 40NE2F

L1 + L2 < 35 m  
 L1 < 25 m ; L2 < 25 m

Always connect the most powerful indoor unit to the lowest connector.  
 No additional charge required.

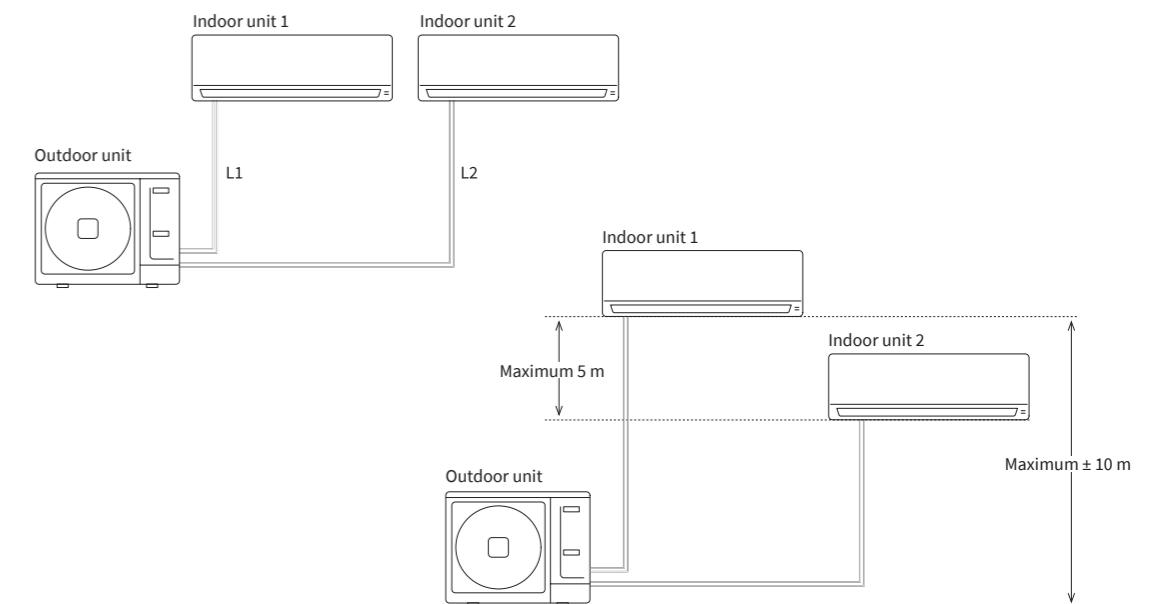


### Refrigerant lengths

#### RAM-53NE2F

L1 + L2 < 35 m  
 L1 < 25 m ; L2 < 25 m

Always connect the most powerful indoor unit to the lowest connector.  
 No additional charge required.





# Indoor unit combinations

## Dodai 2 multi-splits

Multi-splits indoor units

RAM - 53NP2E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
1 unit*	15	1.50 (1.00 - 2.20)	430 (350 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	610 (350 - 650)	3.28	
	18	1.80 (1.00 - 2.00)	495 (350 - 750)	3.64	2.50	2.50 (1.10 - 3.20)	690 (350 - 1050)	3.62	
	25	2.50 (1.00 - 2.80)	700 (350 - 980)	3.57	3.90	3.90 (1.10 - 4.70)	1060 (350 - 1380)	3.68	
	35	3.50 (1.00 - 3.90)	1030 (350 - 1280)	3.40	4.80	4.80 (1.10 - 5.80)	1320 (350 - 1870)	3.64	
	42	4.20 (1.00 - 5.50)	1500 (350 - 1660)	2.80	6.50	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87	
	50	5.00 (1.00 - 5.50)	1510 (350 - 1660)	3.31	6.80	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87	
	60	6.00 (1.00 - 5.50)	1510 (350 - 1660)	3.51	7.00	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87	
2 units	15 + 15	1.50 + 1.50 (1.50 - 3.90)	920 (350 - 1000)	3.26	2.00 + 2.00	4.00 (1.50 - 4.70)	1060 (350 - 1380)	3.77	
	15 + 18	1.50 + 1.80 (1.50 - 3.90)	1020 (350 - 1300)	3.24	2.00 + 2.50	4.50 (1.50 - 5.20)	1250 (350 - 1870)	3.6	
	15 + 25	1.50 + 2.50 (1.50 - 4.50)	1180 (350 - 1250)	3.39	2.00 + 3.90	5.90 (1.50 - 6.50)	1550 (350 - 2010)	3.81	
	15 + 35	1.50 + 3.50 (1.50 - 5.90)	1480 (350 - 1660)	3.38	2.00 + 4.80	6.80 (1.50 - 7.20)	1590 (350 - 2010)	4.28	
	15 + 42 <sup>(1)</sup>	1.39 + 3.91 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.60 + 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	15 + 50 <sup>(1)</sup>	1.22 + 4.08 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.60 + 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	15 + 60 <sup>(1)</sup>	1.06 + 4.24 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.60 + 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	18 + 18	1.80 + 1.80 (1.50 - 4.00)	1080 (350 - 1300)	3.33	2.50 + 2.50	5.00 (1.50 - 5.20)	1290 (350 - 1550)	3.88	
	18 + 25	1.80 + 2.50 (1.50 - 4.60)	1220 (350 - 1450)	3.52	2.50 + 3.90	6.40 (1.50 - 6.30)	1530 (350 - 1920)	4.18	
	18 + 35	1.80 + 3.50 (1.50 - 5.60)	1260 (350 - 1660)	4.21	2.31 + 4.49	6.80 (1.50 - 7.20)	1610 (350 - 2010)	4.22	
	18 + 42 <sup>(1)</sup>	1.59 + 3.71 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.80 + 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	18 + 50 <sup>(1)</sup>	1.40 + 3.90 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.80 + 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	18 + 60 <sup>(1)</sup>	1.22 + 4.08 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.80 + 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	25 + 25	2.50 + 2.50 (1.50 - 5.60)	1470 (350 - 1660)	3.40	3.40 + 3.40	6.80 (1.50 - 7.20)	1780 (350 - 2010)	3.82	
	25 + 35	2.21 + 3.09 (1.50 - 5.70)	1550 (350 - 1660)	3.42	2.83 + 3.97	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	25 + 42 <sup>(1)</sup>	1.98 + 3.32 (1.50 - 5.90)	1550 (350 - 1660)	3.42	2.27 + 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	25 + 50 <sup>(1)</sup>	1.77 + 3.53 (1.50 - 5.90)	1660 (350 - 1660)	3.19	2.27 + 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	25 + 60 <sup>(1)</sup>	1.56 + 3.74 (1.50 - 5.90)	1660 (350 - 1660)	3.19	2.27 + 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	35 + 35	2.65 + 2.65 (1.50 - 5.90)	1660 (350 - 1660)	3.19	3.40 + 3.40	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	35 + 42 <sup>(1)</sup>	2.41 + 2.89 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80 + 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	35 + 50 <sup>(1)</sup>	2.18 + 3.12 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80 + 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	
	42 + 42 <sup>(1)</sup>	2.65 + 2.65 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80 + 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	

\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
<sup>(1)</sup> For each output corresponding to units 42, 50 and 60, a refrigerant adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM-53NP3E + RAK-18QXE + RAK-35RPE

Multi-splits

RAM - 53NP3E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
1 unit*	15	1.50 (1.00 - 1.60)	430 (200 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	560 (320 - 850)	3.57	
	18	1.80 (1.50 - 2.00)	495 (280 - 500)	3.64	2.50	2.50 (1.80 - 3.50)	720 (320 - 1130)	3.47	
	25	2.50 (1.50 - 2.80)	700 (280 - 720)	3.57	3.40	3.40 (1.80 - 4.70)	980 (320 - 1480)	3.47	
	35	3.50 (1.50 - 3.90)	1030 (280 - 1130)	3.40	4.30	4.30 (1.80 - 5.80)	1150 (320 - 1950)	3.74	
	42	4.20 (1.50 - 5.60)	1450 (280 - 1800)	2.90	6.50	6.50 (1.80 - 7.20)	1800 (320 - 2010)	3.61	
	50	5.00 (1.50 - 5.60)	1480 (280 - 1800)	3.38	6.50	6.50 (1.80 - 7.20)	1880 (320 - 2530)	3.46	
	60	6.00 (1.50 - 6.60)	1481 (280 - 1930)	3.58	7.30	6.80 (1.80 - 7.80)	1880 (320 - 2530)	3.62	
2 units	15 + 15	1.50 + 1.50 (1.50 - 3.50)	870 (380 - 980)	3.45	2.00 + 2.00	4.00 (2.20 - 4.70)	1080 (200 - 1100)	3.70	
	15 + 18	1.50 + 1.80 (1.50 - 3.50)	950 (380 - 1000)	3.47	2.00 + 2.50	4.50 (2.20 - 5.20)	1200 (200 - 1300)	3.75	
	15 + 25	1.50 + 2.50 (1.50 - 4.00)	1300 (380 - 1300)	3.08	2.00 + 3.40	5.40 (2.20 - 6.40)	1450 (200 - 1780)	3.72	
	15 + 35	1.50 + 3.50 (1.50 - 5.20)	1450 (380 - 1450)	3.45	2.00 + 4.30	6.30 (2.20 - 7.20)	1660 (200 - 2010)	3.80	
	15 + 42 <sup>(1)</sup>	1.39 + 3.91 (1.50 - 5.90)	1580 (380 - 2380)	3.35	1.60 + 5.20	6.80 (2.20 - 7.20)	1680 (320 - 2010)	4.05	
	15 + 50 <sup>(1)</sup>	1.22 + 4.08 (1.50 - 6.30)	1700 (380 - 2380)	3.12	1.60 + 5.20	6.80 (2.20 - 7.20)	1770 (320 - 2010)	3.84	
	15 + 60 <sup>(1)</sup>	1.06 + 4.24 (1.50 - 6.30)	1700 (380 - 2380)	3.12	1.51 + 5.29	6.80 (2.20 - 7.20)	1950 (320 - 2010)	3.49	
	18 + 18	1.80 + 1.80 (1.50 - 5.90)	1020 (380 - 1020)	3.53	2.50 + 2.50	5.00 (2.20 - 6.40)	1380 (320 - 2010)	3.62	
	18 + 25	1.80 + 2.50 (1.50 - 5.90)	1200 (380 - 1360)	3.58	2.50 + 3.40	5.90 (2.20 - 7.20)	1580 (320 - 2010)	3.73	
	18 + 35	1.80 + 3.50 (1.50 - 5.90)	1290 (380 - 1950)	4.11	2.50 + 4.30	6.80 (2.20 - 7.20)	1650 (320 - 2010)	4.12	
	18 + 42 <sup>(1)</sup>	1.80 + 5.00 (1.50 - 5.90)	1620 (380 - 2820)	3.27	1.89 + 4.91	6.80 (2.20 - 9.50)	1700 (430 - 2600)	4.00	
	18 + 50 <sup>(1)</sup>	1.80 + 5.00 (1.50 - 5.90)	1800 (380 - 2820)	2.94	1.89 + 4.91	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24	
	18 + 60 <sup>(1)</sup>	1.80 + 6.00 (1.50 - 5.90)	1800 (380 - 2820)	2.94	1.79 + 5.01	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24	
	25 + 25	2.50 + 2.50 (2.00 - 5.50)	1480 (380 - 1720)	3.38	3.40 + 3.40	6.80 (2.20 - 9.50)	1770 (430 - 2010)	3.84	
	25 + 35	2.50 + 3.50 (2.00 - 6.60)	1640 (380 - 2380)	3.23	3.00 + 3.80	6.80 (2.20 - 9.50)	1880 (430 - 2010)	3.62	
	25 + 42 <sup>(1)</sup>	1.98 + 3.32 (2.00 - 7.20)	1640 (380 - 2820)	3.23	2.34 + 4.46	6.80 (2.20 - 9.50)	2000 (430 - 2600)	3.40	
	25 + 50 <sup>(1)</sup>	1.77 + 3.53 (2.00 - 7.20)	1610 (380 - 2820)	3.29	2.34 + 4.46	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24	
	25 + 60 <sup>(1)</sup>	1.56 + 3.74 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.22 + 4.58	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	35 + 35	2.65 + 2.65 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40 + 3.40	6.80 (2.20 - 9.50)	1880 (430 - 3120)	3.62	
	35 + 42 <sup>(1)</sup>	2.41 + 2.89 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.71 + 4.09	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	35 + 50 <sup>(1)</sup>	2.18 + 3.12 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.71 + 4.09	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	35 + 60 <sup>(1)</sup>	1.95 + 3.35 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.59 + 4.21	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	42 + 42 <sup>(1)</sup>	2.65 + 2.65 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40 + 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	42 + 50 <sup>(1)</sup>	2.42 + 2.88 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40 + 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	42 + 60 <sup>(1)</sup>	2.18 + 3.12 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.27 + 3.53	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	
	50 + 50 <sup>(1)</sup>	2.65 + 2.65 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40 + 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62	

<sup>(1)</sup> For each output corresponding to units 42, 50 and 60, a refrigerant adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM-53NP3E + RAK-18QXE + RAK-35RPE

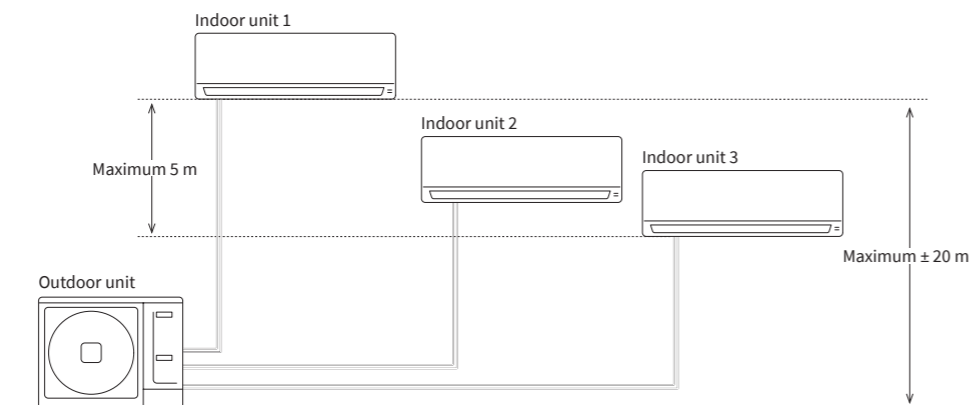
### Refrigerant lengths

#### RAM-53NE3F

L1 + L2 + L3 < 45 m  
 L1 < 25 m ; L2 < 25 m ; L3 < 25 m

Pre-charged for 35 m.  
 Additional 20g/m required beyond 35 m.

Always connect the most powerful indoor unit to the lowest connector.



# Indoor unit combinations



## Standard multi-splits

	RAM - 33NP2E	COOLING MODE				HEATING MODE			
		Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (250 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77
	18	1.80	1.80 (1.00 - 2.50)	455 (250 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62
	25	2.50	2.50 (1.00 - 3.10)	650 (250 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54
	35	3.50	3.50 (1.00 - 3.80)	780 (250 - 1300)	4.49	4.00	4.60 (1.10 - 4.60)	1200 (250 - 1300)	3.33

2 units	15+ 15	1.50+ 1.50	3.00 (1.50 - 2.80)	730 (250 - 780)	4.11	2.00+ 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49
	15+ 18	1.50+ 1.80	3.30 (1.50 - 3.50)	730 (250 - 1050)	4.52	1.78+ 2.22	4.00 (1.50 - 4.60)	900 (250 - 1020)	4.44
	15+ 25	1.24+ 2.06	3.30 (1.50 - 3.80)	950 (250 - 1050)	3.47	1.45+ 2.55	4.00 (1.50 - 4.60)	1080 (250 - 1500)	3.70
	15+ 35	0.99+ 2.31	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.18+ 2.82	4.00 (1.50 - 4.60)	1230 (250 - 1500)	3.25
	18+ 18	1.65+ 1.65	3.30 (1.50 - 3.80)	1050 (250 - 1050)	3.14	2.00+ 2.00	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	18+ 25	1.38+ 1.92	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.67+ 2.33	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	18+ 35	1.12+ 2.18	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.37+ 2.63	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	25+ 25	1.65+ 1.65	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	2.00+ 2.00	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20

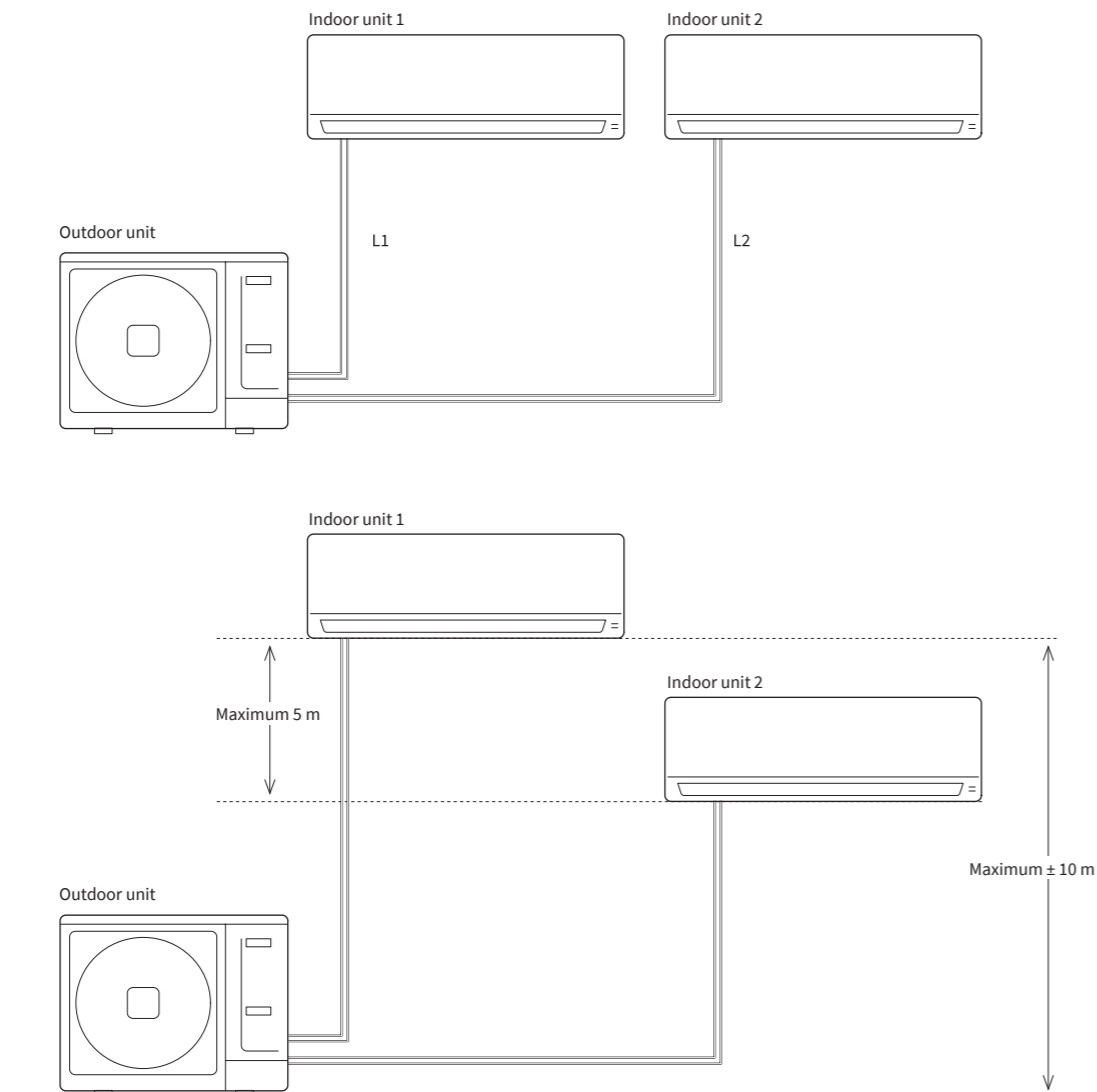
\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
 \*\* RAM - 33NP2E + RAK - 15QPE + RAK - 18RPE

## Refrigerant lengths

### RAM-33NP2E

L1 + L2 < 20 m  
 L1 < 15 m ; L2 < 15 m

Always connect the most powerful indoor unit to the lowest connector.  
 No additional charge required.



	RAM - 40NP2E	COOLING MODE				HEATING MODE			
		Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (200 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77 A
	18	1.80	1.80 (1.00 - 2.50)	455 (200 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62 A
	25	2.50	2.50 (1.00 - 3.10)	650 (200 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54 B
	35	3.50	3.50 (1.00 - 4.00)	780 (200 - 1150)	4.49	4.80	4.80 (1.10 - 5.00)	1200 (250 - 1300)	4.00 A

2 units	15+ 15	1.50+ 1.50	3.00 (1.50 - 2.80)	700 (200 - 780)	4.29	2.00+ 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49 A
	15+ 18	1.50+ 1.80	3.30 (1.50 - 3.50)	730 (200 - 930)	4.52	2.00+ 2.50	4.50 (1.50 - 5.00)	940 (250 - 1020)	4.79 A
	15+ 25	1.50+ 2.50	4.00 (1.50 - 4.00)	950 (200 - 1150)	4.21	1.89+ 3.31	5.20 (1.50 - 5.50)	1080 (250 - 1500)	4.81 A
	15+ 35	1.20+ 2.80	4.00 (1.50 - 4.20)	1100 (200 - 1150)	3.64	1.53+ 3.67	5.20 (1.50 - 5.50)	1230 (250 - 1500)	4.23 A
	18+ 18	1.80+ 1.80	3.60 (1.50 - 4.00)	1050 (200 - 1050)	3.43	2.50+ 2.50	5.00 (1.50 - 5.00)	1250 (250 - 1500)	4.00 A
	18+ 25	1.67+ 2.33	4.00 (1.50 - 4.20)	1090 (200 - 1150)	3.67	2.17+ 3.03	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A
	18+ 35	1.36+ 2.64	4.00 (1.50 - 4.20)	1130 (200 - 1150)	3.54	1.78+ 3.42	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A
	25+ 25	2.00+ 2.00	4.00 (1.50 - 4.20)	1150 (200 - 1150)	3.48	2.60+ 2.60	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A

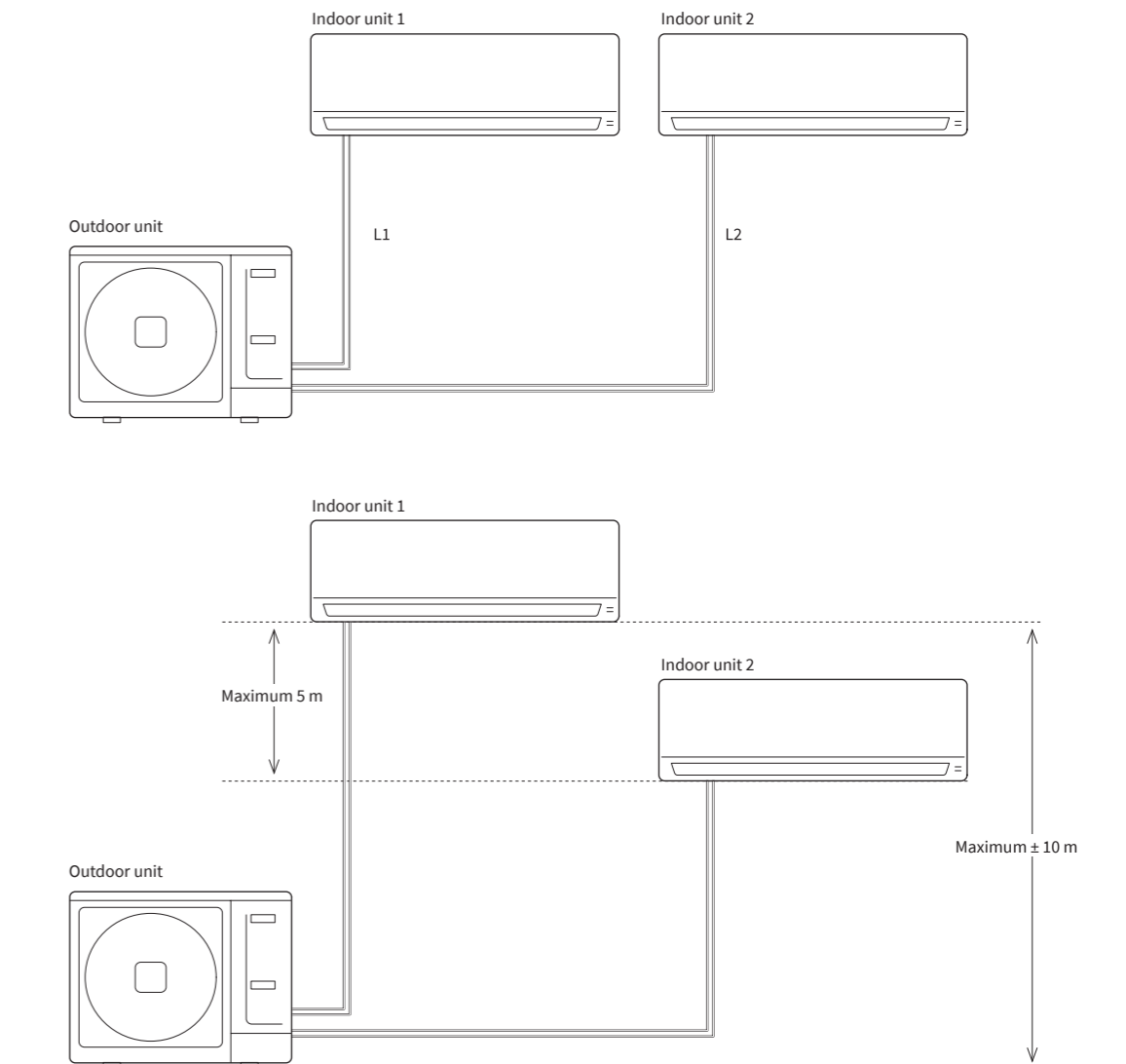
\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
 \*\* RAM - 40NP2E + RAK - 18 RPE + RAK - 18RPE

## Refrigerant lengths

### RAM-40NP2E

L1 + L2 < 35 m  
 L1 < 25 m ; L2 < 25 m

Always connect the most powerful indoor unit to the lowest connector.  
 No additional charge required.





# Indoor unit combinations



Multi-splits indoor units

## Standard multi-splits

RAM - 53NP2E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
1 unit*	15	1.50	1.50 (1.00 - 2.20)	430 (350 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	610 (350 - 650)	3.28
	18	1.80	1.80 (1.00 - 2.00)	495 (350 - 750)	3.64	2.50	2.50 (1.10 - 3.20)	690 (350 - 1050)	3.62
	25	2.50	2.50 (1.00 - 2.80)	700 (350 - 980)	3.57	3.90	3.90 (1.10 - 4.70)	1060 (350 - 1380)	3.68
	35	3.50	3.50 (1.00 - 3.90)	1030 (350 - 1280)	3.40	4.80	4.80 (1.10 - 5.80)	1320 (350 - 1870)	3.64
	42	4.20	4.20 (1.00 - 5.50)	1500 (350 - 1660)	2.80	6.50	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87
	50	5.00	5.00 (1.00 - 5.50)	1510 (350 - 1660)	3.31	6.80	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87
	60	6.00	5.30 (1.00 - 5.50)	1510 (350 - 1660)	3.51	7.00	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87
2 units	15+ 15	1.50+ 1.50	3.00 (1.50 - 3.90)	920 (350 - 1000)	3.26	2.00+ 2.00	4.00 (1.50 - 4.70)	1060 (350 - 1380)	3.77
	15+ 18	1.50+ 1.80	3.30 (1.50 - 3.90)	1020 (350 - 1300)	3.24	2.00+ 2.50	4.50 (1.50 - 5.20)	1250 (350 - 1870)	3.6
	15+ 25	1.50+ 2.50	4.00 (1.50 - 4.50)	1180 (350 - 1250)	3.39	2.00+ 3.90	5.90 (1.50 - 6.50)	1550 (350 - 2010)	3.81
	15+ 35	1.50+ 3.50	5.00 (1.50 - 5.90)	1480 (350 - 1660)	3.38	2.00+ 4.80	6.80 (1.50 - 7.20)	1590 (350 - 2010)	4.28
	15 + 42 <sup>(1)</sup>	1.39+ 3.91	5.30 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.60+ 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	15 + 50 <sup>(1)</sup>	1.22+ 4.08	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.60+ 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	15 + 60 <sup>(1)</sup>	1.06+ 4.24	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.60+ 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	18+ 18	1.80+ 1.80	3.60 (1.50 - 4.00)	1080 (350 - 1300)	3.33	2.50+ 2.50	5.00 (1.50 - 5.20)	1290 (350 - 1550)	3.88
	18 + 25	1.80+ 2.50	4.30 (1.50 - 4.60)	1220 (350 - 1450)	3.52	2.50+ 3.90	6.40 (1.50 - 6.30)	1530 (350 - 1920)	4.18
	18 + 35	1.80+ 3.50	5.30 (1.50 - 5.60)	1260 (350 - 1660)	4.21	2.31+ 4.49	6.80 (1.50 - 7.20)	1610 (350 - 2010)	4.22
	18 + 42 <sup>(1)</sup>	1.59+ 3.71	5.30 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.80+ 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	18 + 50 <sup>(1)</sup>	1.40+ 3.90	5.30 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.80+ 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	18 + 60 <sup>(1)</sup>	1.22+ 4.08	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.80+ 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	25 + 25	2.50+ 2.50	5.00 (1.50 - 5.60)	1470 (350 - 1660)	3.40	3.40+ 3.40	6.80 (1.50 - 7.20)	1780 (350 - 2010)	3.82
	25 + 35	2.21+ 3.09	5.30 (1.50 - 5.70)	1550 (350 - 1660)	3.42	2.83+ 3.97	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	25 + 42 <sup>(1)</sup>	1.98+ 3.32	5.30 (1.50 - 5.90)	1550 (350 - 1660)	3.42	2.27+ 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	25 + 50 <sup>(1)</sup>	1.77+ 3.53	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	2.27+ 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	25 + 60 <sup>(1)</sup>	1.56+ 3.74	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	2.27+ 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	35 + 35	2.65+ 2.65	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	3.40+ 3.40	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	35 + 42 <sup>(1)</sup>	2.41+ 2.89	5.30 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80+ 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	35 + 50 <sup>(1)</sup>	2.18+ 3.12	5.30 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80+ 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	42 + 42 <sup>(1)</sup>	2.65+ 2.65	5.30 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80+ 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74

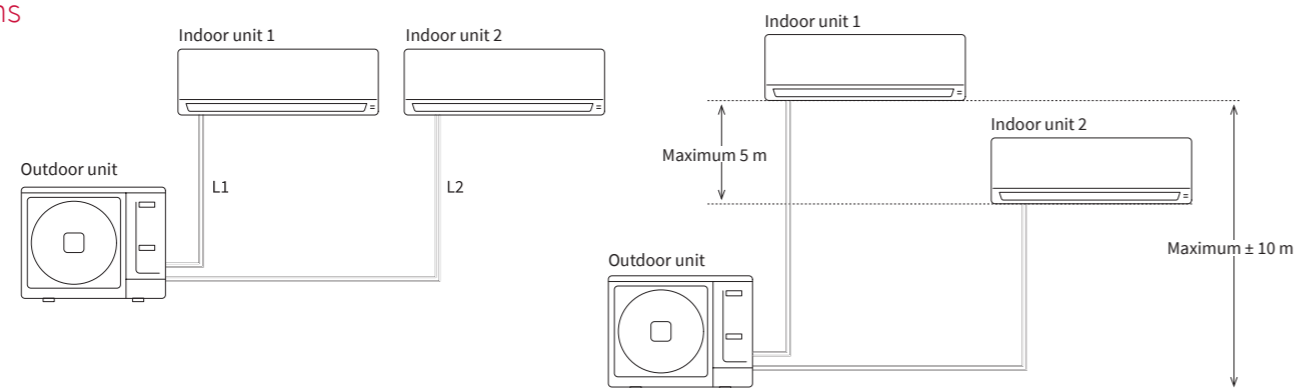
\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
<sup>(1)</sup> For each output corresponding to units 42, 50 and 60, a refrigerant adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM - 53NP2E + RAK - 18QXE + RAK - 35RXE.

## Refrigerant lengths

RAM-53NP2E

L1 + L2 < 35 m  
 L1 < 25 m ; L2 < 25 m

Always connect the most powerful indoor unit to the lowest connector. No additional charge required.



RAM - 53NP3E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
1 unit*	15	1.50	1.50 (1.00 - 1.60)	430 (200 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	560 (320 - 850)	3.57
	18	1.80	1.80 (1.50 - 2.00)	495 (280 - 500)	3.64	2.50	2.50 (1.80 - 3.50)	720 (320 - 1130)	3.47
	25	2.50	2.50 (1.50 - 2.80)	700 (280 - 720)	3.57	3.40	3.40 (1.80 - 4.70)	980 (320 - 1480)	3.47
	35	3.50	3.50 (1.50 - 3.90)	1030 (280 - 1130)	3.40	4.30	4.30 (1.80 - 5.80)	1150 (320 - 1950)	3.74
	42	4.20	4.20 (1.50 - 5.60)	1450 (280 - 1800)	2.90	6.50	6.50 (1.80 - 7.20)	1800 (320 - 2010)	3.61
	50	5.00	5.00 (1.50 - 5.60)	1480 (280 - 1800)	3.38	6.50	6.50 (1.80 - 7.20)	1880 (320 - 2530)	3.46
	60	6.00	5.30 (1.50 - 6.60)	1481 (280 - 1930)	3.58	7.30	6.80 (1.80 - 7.80)	1880 (320 - 2530)	3.62
2 units	15+ 15	1.50+ 1.50	3.00 (1.50 - 3.50)	870 (380 - 980)	3.45	2.00+ 2.00	4.00 (2.20 - 4.70)	1080 (200 - 1100)	3.70
	15+ 18	1.50+ 1.80	3.30 (1.50 - 3.50)	950 (380 - 1000)	3.47	2.00+ 2.50	4.50 (2.20 - 5.20)	1200 (200 - 1300)	3.75
	15+ 25	1.50+ 2.50	4.00 (1.50 - 4.00)	1300 (380 - 1300)	3.08	2.00+ 3.40	5.40 (2.20 - 6.40)	1450 (200 - 1780)	3.72
	15+ 35	1.50+ 3.50	5.00 (1.50 - 5.20)	1450 (380 - 1450)	3.45	2.00+ 4.30	6.30 (2.20 - 7.20)	1660 (200 - 2010)	3.80
	15 + 42 <sup>(1)</sup>	1.39+ 3.91	5.30 (1.50 - 5.90)	1580 (380 - 2380)	3.35	1.60+ 5.20	6.80 (2.20 - 7.20)	1680 (320 - 2010)	4.05
	15 + 50 <sup>(1)</sup>	1.22+ 4.08	5.30 (1.50 - 6.30)	1700 (380 - 2380)	3.12	1.60+ 5.20	6.80 (2.20 - 7.20)	1770 (320 - 2010)	3.84
	15 + 60 <sup>(1)</sup>	1.06+ 4.24	5.30 (1.50 - 6.30)	1700 (380 - 2380)	3.12	1.51+ 5.29	6.80 (2.20 - 7.20)	1950 (320 - 2010)	3.49
	18+ 18	1.80+ 1.80	3.60 (1.50 - 5.90)	1020 (380 - 1020)	3.53	2.50+ 2.50	5.00 (2.20 - 6.40)	1380 (320 - 2010)	3.62
	18 + 25	1.80+ 2.50	4.30 (1.50 - 5.90)	1200 (380 - 1360)	3.58	2.50+ 3.40	5.90 (2.20 - 7.20)	1580 (320 - 2010)	3.73
	18 + 35	1.80+ 3.50	5.30 (1.50 - 5.90)	1290 (380 - 1950)	4.11	2.50+ 4.30	6.80 (2.20 - 7.20)	1650 (320 - 2010)	4.12
	18 + 42 <sup>(1)</sup>	1.80+ 5.00	5.30 (1.50 - 5.90)	1620 (380 - 2820)	3.27	1.89+ 4.91	6.80 (2.20 - 9.50)	1700 (430 - 2600)	4.00
	18 + 50 <sup>(1)</sup>	1.80+ 5.00	5.30 (1.50 - 5.90)	1800 (380 - 2820)	2.94	1.89+ 4.91	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24
	18 + 60 <sup>(1)</sup>	1.80+ 6.00	5.30 (1.50 - 5.90)	1800 (380 - 2820)	2.94	1.79+ 5.01	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24
	25 + 25	2.50+ 2.50	5.00 (2.00 - 5.50)	1480 (380 - 1720)	3.38	3.40+ 3.40	6.80 (2.20 - 9.50)	1770 (430 - 2010)	3.84
	25 + 35	2.50+ 3.50	5.30 (2.00 - 6.60)	1640 (380 - 2380)	3.23	3.00+ 3.80	6.80 (2.20 - 9.50)	1880 (430 - 2010)	3.62
	25 + 42 <sup>(1)</sup>	1.98+ 3.32	5.30 (2.00 - 7.20)	1640 (380 - 2820)	3.23	2.34+ 4.46	6.80 (2.20 - 9.50)	2000 (430 - 2600)	3.40
	25 + 50 <sup>(1)</sup>	1.77+ 3.53	5.30 (2.00 - 7.20)	1610 (380 - 2820)	3.29	2.34+ 4.46	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24
	25 + 60 <sup>(1)</sup>	1.56+ 3.74	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.22+ 4.58	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	35 + 35	2.65+ 2.65	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40+ 3.40	6.80 (2.20 - 9.50)	1880 (430 - 3120)	3.62
	35 + 42 <sup>(1)</sup>	2.41+ 2.89	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.71+ 4.09	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	35 + 50 <sup>(1)</sup>	2.18+ 3.12	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.71+ 4.09	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	35 + 60 <sup>(1)</sup>	1.95+ 3.35	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.59+ 4.21	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	42 + 42 <sup>(1)</sup>	2.65+ 2.65	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40+ 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	42 + 50 <sup>(1)</sup>	2.42+ 2.88	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40+ 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	42 + 60 <sup>(1)</sup>	2.18+ 3.12	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.27+ 3.53	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	50 + 50 <sup>(1)</sup>	2.65+ 2.65	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40+ 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62

\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
<sup>(1)</sup> For each output corresponding to units 42, 50 and 60, a refrigerant adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM - 53NP3E + RAK - 18QXE + RAK - 35RPE

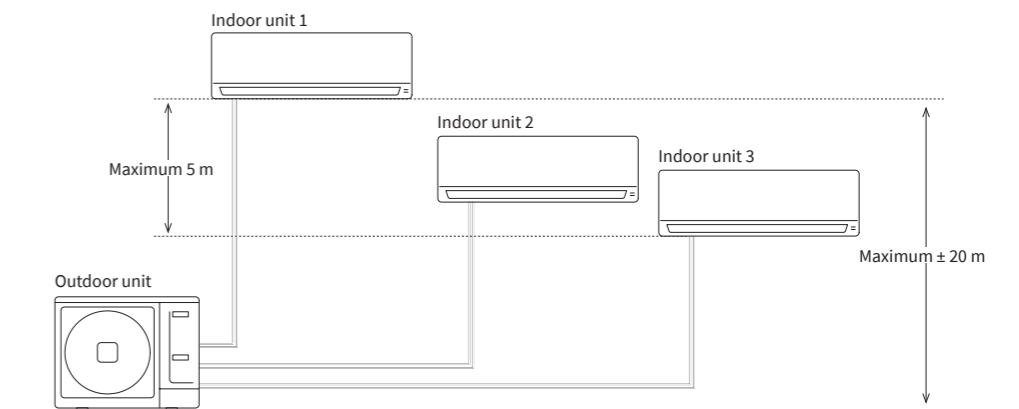
## Refrigerant lengths

RAM-53NP3E

L1 + L2 + L3 < 45 m  
 L1 < 25 m ; L2 < 25 m ; L3 < 25 m

Pre-charged for 35 m. Additional 20g/m required beyond 35 m.

Always connect the most powerful indoor unit to the lowest connector.





# Indoor unit combinations

Multi-splits indoor units

## Standard multi-splits

RAM - 53NP3E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15 + 15 + 15	1.50 + 1.50 + 1.50	4.50 (2.20 - 5.00)	1400 (420 - 1680)	3.21	2.00 + 2.00 + 2.00	6.00 (2.40 - 6.50)	1650 (430 - 1800)	3.64	
15 + 15 + 18	1.50 + 1.50 + 1.80	4.80 (2.20 - 5.50)	1480 (240 - 1880)	3.24	2.00 + 2.00 + 2.50	6.50 (2.40 - 7.00)	1750 (430 - 2100)	3.71	
15 + 15 + 25	1.45 + 1.45 + 2.41	5.30 (2.20 - 6.00)	1680 (420 - 2280)	3.15	1.84 + 1.84 + 3.12	6.80 (2.20 - 9.30)	1850 (430 - 2200)	3.68	
15 + 15 + 35	1.22 + 1.22 + 2.85	5.30 (2.20 - 7.00)	1800 (420 - 2480)	2.94	1.64 + 1.64 + 3.52	6.80 (2.40 - 9.50)	1850 (430 - 2500)	3.68	
15 + 15 + 42 <sup>(1)</sup>	1.10 + 1.10 + 3.09	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.30 + 1.30 + 4.21	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68	
15 + 15 + 50 <sup>(1)</sup>	0.99 + 0.99 + 3.31	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.30 + 1.30 + 4.21	6.80 (2.40 - 9.50)	2000 (430 - 2600)	3.40	
15 + 15 + 60 <sup>(1)</sup>	0.88 + 0.88 + 3.53	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.24 + 1.24 + 4.33	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
15 + 18 + 18	1.50 + 1.80 + 1.80	5.10 (2.20 - 5.60)	1500 (420 - 2280)	3.40	1.94 + 2.43 + 2.43	6.80 (2.20 - 9.30)	1850 (430 - 2400)	3.68	
15 + 18 + 25	1.37 + 1.64 + 2.28	5.30 (2.20 - 6.30)	1590 (420 - 2480)	3.33	1.72 + 2.15 + 2.93	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68	
15 + 18 + 35	1.17 + 1.40 + 2.73	5.30 (2.20 - 7.50)	1680 (420 - 2480)	3.15	1.55 + 1.93 + 3.32	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68	
15 + 18 + 42 <sup>(1)</sup>	1.06 + 1.27 + 2.97	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.24 + 1.55 + 4.02	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68	
15 + 18 + 50 <sup>(1)</sup>	0.96 + 1.15 + 3.19	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.24 + 1.55 + 4.02	6.80 (2.40 - 9.50)	2050 (430 - 2600)	3.32	
15 + 25 + 25	1.22 + 2.04 + 2.04	5.30 (1.50 - 7.00)	1710 (420 - 2480)	3.10	1.55 + 2.63 + 2.63	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68	
15 + 25 + 35	1.06 + 1.77 + 2.47	5.30 (2.20 - 7.80)	1800 (420 - 2890)	2.94	1.40 + 2.38 + 3.01	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68	
15 + 25 + 42 <sup>(1)</sup>	0.97 + 1.62 + 2.71	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.14 + 1.94 + 3.71	6.80 (2.40 - 9.50)	1930 (430 - 2600)	3.52	
15 + 25 + 50 <sup>(1)</sup>	0.88 + 1.47 + 2.94	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.14 + 1.94 + 3.71	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
15 + 35 + 35	0.94 + 2.18 + 2.18	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.28 + 2.76 + 2.76	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
15 + 35 + 42 <sup>(1)</sup>	0.86 + 2.02 + 2.42	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.06 + 2.28 + 3.45	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
15 + 35 + 50 <sup>(1)</sup>	0.80 + 1.86 + 2.65	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.06 + 2.28 + 3.45	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
15 + 42 + 42 <sup>(1)</sup>	0.80 + 2.25 + 2.25	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	0.83 + 2.99 + 2.99	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
15 + 42 + 50 <sup>(1)</sup>	0.74 + 2.08 + 2.48	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	0.83 + 2.99 + 2.99	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
18 + 18 + 18	1.77 + 1.77 + 1.77	5.30 (2.20 - 5.90)	1500 (420 - 2190)	3.53	2.27 + 2.27 + 2.27	6.80 (2.40 - 9.50)	1860 (430 - 2600)	3.66	
18 + 18 + 25	1.56 + 1.56 + 2.17	5.30 (2.20 - 6.70)	1610 (420 - 2480)	3.29	2.02 + 2.02 + 2.75	6.80 (2.40 - 9.50)	1740 (430 - 2600)	3.91	
18 + 18 + 35	1.34 + 1.34 + 2.61	5.30 (2.20 - 7.80)	1800 (420 - 2890)	2.94	1.83 + 1.83 + 3.14	6.80 (2.40 - 9.50)	1820 (430 - 2600)	3.74	
18 + 18 + 42 <sup>(1)</sup>	1.22 + 1.22 + 2.85	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.48 + 1.48 + 3.84	6.80 (2.40 - 9.50)	1950 (430 - 2600)	3.49	
18 + 18 + 50 <sup>(1)</sup>	1.11 + 1.11 + 3.08	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.48 + 1.48 + 3.84	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
18 + 25 + 25	1.40 + 1.95 + 1.95	5.30 (2.20 - 7.50)	1730 (420 - 2780)	3.06	1.83 + 2.49 + 2.49	6.80 (2.40 - 9.50)	1760 (430 - 2600)	3.86	
18 + 25 + 35	1.22 + 1.70 + 2.38	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.67 + 2.27 + 2.87	6.80 (2.40 - 9.50)	1820 (430 - 2600)	3.74	
18 + 25 + 42 <sup>(1)</sup>	1.12 + 1.56 + 2.62	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.37 + 1.86 + 3.56	6.80 (2.40 - 9.50)	1970 (430 - 2600)	3.45	
18 + 25 + 50 <sup>(1)</sup>	1.03 + 1.42 + 2.85	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.37 + 1.86 + 3.56	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
18 + 35 + 35	1.08 + 2.11 + 2.11	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.53 + 2.63 + 2.63	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
18 + 35 + 42 <sup>(1)</sup>	1.00 + 1.95 + 2.34	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.28 + 2.20 + 3.32	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
18 + 35 + 50 <sup>(1)</sup>	0.93 + 1.80 + 2.57	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.28 + 2.20 + 3.32	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
25 + 25 + 25	1.77 + 1.77 + 1.77	5.30 (2.20 - 7.80)	1800 (420 - 2890)	2.94	2.27 + 2.27 + 2.27	6.80 (2.40 - 9.50)	1870 (430 - 2600)	3.64	
25 + 25 + 35	1.56 + 1.56 + 2.18	5.30 (2.20 - 8.00)	1800 (420 - 2960)	2.94	2.08 + 2.08 + 2.63	6.80 (2.40 - 9.50)	1930 (430 - 2600)	3.52	
25 + 25 + 42 <sup>(1)</sup>	1.44 + 1.44 + 2.42	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.74 + 1.74 + 3.32	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
25 + 25 + 50 <sup>(1)</sup>	1.33 + 1.33 + 2.65	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.74 + 1.74 + 3.32	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
25 + 35 + 35	1.39 + 1.95 + 1.95	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.93 + 2.44 + 2.44	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
25 + 35 + 42 <sup>(1)</sup>	1.30 + 1.82 + 2.18	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.63 + 2.06 + 3.11	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
25 + 35 + 50 <sup>(1)</sup>	1.20 + 1.69 + 2.41	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.63 + 2.06 + 3.11	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
25 + 42 + 42 <sup>(1)</sup>	1.22 + 2.04 + 2.04	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.63 + 2.06 + 3.11	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	
35 + 35 + 35	1.77 + 1.77 + 1.77	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	2.27 + 2.27 + 2.27	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	

<sup>(1)</sup> For each output corresponding to units 42, 50 and 60, an adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM - 53NP3E + RAK - 18QXE + RAK - 35RPE

RAM - 68NP3E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15	1.50	1.50 (1.00 - 1.60)	430 (200 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	560 (320 - 850)	3.57	
18	1.80	1.80 (1.50 - 2.00)	495 (280 - 500)	3.64	2.50	2.50 (1.80 - 3.50)	720 (320 - 1130)	3.47	
25	2.50	2.50 (1.50 - 2.80)	700 (280 - 720)	3.57	3.40	3.40 (1.80 - 4.70)	980 (320 - 1480)	3.47	
35	3.50	3.50 (1.50 - 3.90)	1030 (280 - 1130)	3.40	4.30	4.30 (1.80 - 5.80)	1150 (320 - 1950)	3.74	
42	4.20	4.20 (1.50 - 5.60)	1450 (280 - 1800)	2.90	6.50	6.50 (1.80 - 7.20)	2030 (320 - 2530)	3.20	
50	5.00	5.00 (1.50 - 5.60)	1480 (280 - 1800)	3.38	6.50	6.50 (1.80 - 7.20)	2030 (320 - 2530)	3.20	
60	6.00	6.00 (1.50 - 6.60)	1480 (280 - 2290)	4.05	7.30	7.30 (1.80 - 8.50)	2590 (320 - 2860)	2.82	
15+ 15	1.50+ 1.50	3.00 (1.50 - 2.80)	870 (380 - 980)	3.45	2.00+ 2.00	4.00 (2.20 - 4.70)	1080 (200 - 1100)	3.70	
15+ 18	1.50+ 1.80	3.30 (1.50 - 3.50)	950 (380 - 1000)	3.47	2.00+ 2.50	4.50 (2.20 - 5.20)	1200 (200 - 1300)	3.75	
15+ 25	1.50+ 2.50	4.00 (1.50 - 4.00)	1300 (380 - 1300)	3.08	2.00+ 3.40	5.40 (2.20 - 6.40)	1450 (200 - 1780)	3.72	
15+ 35	1.50+ 3.50	5.00 (1.50 - 5.20)	1450 (380 - 1450)	3.45	2.00+ 4.30	6.30 (2.20 - 7.20)	1660 (200 - 2010)	3.80	
15 + 42 <sup>(1)</sup>	1.50+ 4.20	5.70 (1.50 - 5.90)	1700 (380 - 2380)	3.35	2.00+ 6.50	8.50 (2.20 - 7.20)	2200 (390 - 3120)	3.86	
15 + 50 <sup>(1)</sup>	1.50+ 5.00	6.50 (1.50 - 5.90)	1830 (380 - 2380)	3.55	2.00+ 6.50	8.50 (2.20 - 7.20)	2200 (390 - 3120)	3.86	
15 + 60 <sup>(1)</sup>	1.36+ 5.44	6.80 (1.50 - 6.50)	2120 (380 - 2580)	3.58	1.83+ 6.67	8.50 (2.20 - 8.60)	2200 (390 - 3120)	3.86	
18+ 18	1.80+ 1.80	3.60 (2.00 - 4.00)	1020 (380 - 1020)	3.53	2.50+ 2.50	5.00 (2.20 - 6.40)	1380 (390 - 2750)	3.62	
18 + 25	1.80 + 2.50	4.30 (2.00 - 4.70)	1380 (380 - 1360)	3.12	2.50 + 3.40	5.90 (2.20 - 7.20)	1580 (390 - 3000)	3.73	
18 + 35	1.80 + 3.50	5.30 (2.00 - 5.80)	1750 (380 - 1950)	3.03	2.50 + 4.30	6.80 (2.20 - 7.20)	1610 (390 - 3120)	4.22	
18 + 42 <sup>(1)</sup>	1.80 + 5.00	6.00 (2.00 - 7.10)	1830 (380 - 2820)	3.28	2.36 + 6.14	8.50 (2.20 - 9.50)	2120 (390 - 3120)	4.01	
18 + 50 <sup>(1)</sup>	1.80 + 5.00	6.80 (2.00 - 7.10)	1830 (380 - 2820)	3.72	2.36 + 6.14	8.50 (2.20 - 9.50)	2120 (390 - 3120)	4.01	
18 + 60 <sup>(1)</sup>	1.70 + 5.40	6.80 (2.00 - 7.50)	1900 (380 - 2980)	3.58	2.17 + 6.33	8.50 (2.20 - 9.50)	2200 (390 - 3120)	3.86	
25 + 25	2.50 + 2.50	5.00 (2.00 - 5.50)	1480 (380 - 1720)	3.38	3.40 + 3.40	6.80 (2.20 - 9.50)	2000 (390 - 3120)	3.40	
25 + 35	2.50 + 3.50	6.00 (2.00 - 6.60)	1850 (380 - 2380)	3.24	3.40 + 4.30	7.70 (2.20 - 9.50)	2120 (390 - 3120)	3.63	
25 + 42 <sup>(1)</sup>	2.50 + 4.20	6.70 (2.00 - 7.50)	2060 (380 - 2980)	3.25	2.92 + 5.58	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
25 + 50 <sup>(1)</sup>	2.27 + 4.53	6.80 (2.00 - 7.50)	2060 (380 - 2980)	3.30	2.92 + 5.58	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
25 + 60 <sup>(1)</sup>	2.10 + 5.00	6.80 (2.00 - 7.50)	2060 (380 - 2980)	3.30	2.70 + 5.80	8.50 (2.20 - 9.50)	2450 (390 - 3120)	3.47	
35 + 35	3.40 + 3.40	6.80 (2.00 - 7.40)	2060 (380 - 2940)	3.30	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35 + 42 <sup>(1)</sup>	3.09 + 3.71	6.80 (2.00 - 7.50)	2060 (380 - 2890)	3.30	3.38 + 5.12	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35 + 50 <sup>(1)</sup>	2.80 + 4.00	6.80 (2.00 - 7.50)	2060 (380 - 2890)	3.30	3.38 + 5.12	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35 + 60 <sup>(1)</sup>	2.60 + 4.50	6.80 (2.00 - 7.80)	2060 (380 - 3100)	2.78	3.15 + 5.35	8.50 (2.20 - 9.50)	2450 (390 - 3120)	3.47	
42 + 42 <sup>(1)</sup>	3.40 + 3.40	6.80 (2.00 - 8.00)	2060 (380 - 3170)	3.30	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
42 + 50 <sup>(1)</sup>	3.10 + 3.70	6.80 (2.00 - 8.00)	2060 (380 - 3170)	3.30	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
42 + 60 <sup>(1)</sup>	2.80 + 4.00	6.80 (2.00 - 8.00)	2060 (380 - 3170)	3.30	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
50 + 50 <sup>(1)</sup>	3.40 + 3.40	6.80 (2.00 - 8.00)	2060 (380 - 3170)	3.30	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
50 + 60 <sup>(1)</sup>	3.20 + 3.90	6.80 (2.00 - 8.00)	2360 (380 - 3170)	2.88	4.00 + 4.50	8.50 (2.20 - 9.50)	2450 (390 - 3120)	3.47	

\* For information: these are performances when



# Indoor unit combinations

Multi-splits indoor units

## Standard multi-splits

RAM - 68NP3E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15 + 15 + 15	1.50 + 1.50 + 1.50	4.50 (2.20 - 5.00)	1400 (420 - 1680)	3.21	2.00 + 2.00 + 2.00	6.00 (2.40 - 6.50)	1650 (430 - 1800)	3.64	
15 + 15 + 18	1.50 + 1.50 + 1.80	4.80 (2.20 - 5.50)	1480 (240 - 1880)	3.24	2.00 + 2.00 + 2.50	6.50 (2.40 - 7.00)	1750 (430 - 2100)	3.71	
15 + 15 + 25	1.50 + 1.50 + 2.50	5.50 (2.20 - 6.00)	1680 (420 - 2280)	3.27	2.00 + 2.00 + 3.40	7.40 (2.20 - 9.30)	2010 (430 - 2200)	3.68	
15 + 15 + 35	1.50 + 1.50 + 3.50	6.50 (2.20 - 7.00)	2010 (420 - 2480)	3.23	2.00 + 2.00 + 4.30	8.30 (2.40 - 9.50)	2260 (430 - 2500)	3.67	
15 + 15 + 42 <sup>(1)</sup>	1.42 + 1.42 + 3.97	6.80 (2.20 - 7.50)	2100(420 - 2890)	3.24	1.62 + 1.62 + 5.26	8.50 (2.40 - 9.50)	2300 (430 - 2600)	3.7	
15 + 15 + 50 <sup>(1)</sup>	1.28 + 1.28 + 4.25	6.80 (2.20 - 7.50)	2100(420 - 2890)	3.24	1.62 + 1.62 + 5.26	8.50 (2.40 - 9.50)	2300 (430 - 2600)	3.7	
15 + 15 + 60 <sup>(1)</sup>	1.13 + 1.13 + 4.53	6.80 (2.20 - 8.00)	2180(420 - 2960)	3.12	1.53 + 1.38 + 5.59	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 18 + 18	1.50 + 1.80 + 1.80	5.10 (2.20 - 5.60)	1550(420 - 2280)	3.29	2.00 + 2.50 + 2.50	7.00 (2.20 - 9.30)	1900 (430 - 2400)	3.68	
15 + 18 + 25	1.50 + 1.80 + 2.50	5.80 (2.20 - 6.30)	1800(420 - 2480)	3.22	2.00 + 2.50 + 3.40	7.90 (2.40 - 9.50)	2150 (430 - 2600)	3.67	
15 + 18 + 35	1.50 + 1.80 + 3.50	6.80 (2.20 - 7.50)	2100(420 - 2480)	3.24	1.93 + 2.41 + 4.15	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 18 + 42 <sup>(1)</sup>	1.36 + 1.63 + 3.81	6.80 (2.20 - 7.50)	2100(420 - 2890)	3.24	1.55 + 1.93 + 5.02	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 18 + 50 <sup>(1)</sup>	1.23 + 1.47 + 4.10	6.80 (2.20 - 7.50)	2100(420 - 2890)	3.24	1.55 + 1.93 + 5.02	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 18 + 60 <sup>(1)</sup>	1.10 + 1.32 + 4.39	6.80 (2.20 - 8.00)	2180(420 - 2960)	3.12	1.44 + 1.80 + 5.26	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 25 + 25	1.50 + 2.50 + 2.50	6.50 (1.50 - 7.00)	2020(420 - 2480)	3.22	1.93 + 3.28 + 3.28	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 25 + 35	1.36 + 2.27 + 3.17	6.80 (2.20 - 7.80)	2100(420 - 2890)	3.24	1.75 + 2.98 + 3.77	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 25 + 42 <sup>(1)</sup>	1.24 + 2.07 + 3.48	6.80 (2.20 - 8.00)	2100(420 - 2960)	3.24	1.43 + 2.43 + 4.64	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 25 + 50 <sup>(1)</sup>	1.13 + 1.89 + 3.78	6.80 (2.20 - 8.00)	2100(420 - 2960)	3.24	1.43 + 2.43 + 4.64	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 25 + 60 <sup>(1)</sup>	1.02 + 1.70 + 4.08	6.80 (2.20 - 8.00)	2180(420 - 2960)	3.12	1.34 + 2.28 + 4.89	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 35 + 35	1.20 + 2.80 + 2.80	6.80 (2.20 - 8.00)	2100(420 - 2890)	3.24	1.60 + 3.45 + 3.45	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 35 + 42 <sup>(1)</sup>	1.11 + 2.59 + 3.10	6.80 (2.20 - 8.00)	2100(420 - 2960)	3.24	1.33 + 2.86 + 4.32	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 35 + 50 <sup>(1)</sup>	1.02 + 2.38 + 3.40	6.80 (2.20 - 8.00)	2100(420 - 2960)	3.24	1.33 + 2.86 + 4.32	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 35 + 60 <sup>(1)</sup>	0.93 + 2.16 + 3.71	6.80 (2.20 - 8.00)	2180(420 - 2960)	3.12	1.14 + 2.73 + 4.63	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 42 + 42 <sup>(1)</sup>	1.03 + 2.88 + 2.88	6.80 (2.20 - 8.00)	2180(420 - 2960)	3.12	1.03 + 3.73 + 3.73	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 42 + 50 <sup>(1)</sup>	0.95 + 2.67 + 3.18	6.80 (2.20 - 8.00)	2180(420 - 2960)	3.12	1.03 + 3.73 + 3.73	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
18 + 18 + 18	1.80 + 1.80 + 1.80	5.40 (2.20 - 5.90)	1450(420 - 2190)	3.72	2.50 + 2.50 + 2.50	7.50 (2.40 - 9.50)	2050 (430 - 2600)	3.66	
18 + 18 + 25	1.80 + 1.80 + 2.50	6.10 (2.20 - 6.70)	1720(420 - 2480)	3.55	2.50 + 2.50 + 3.40	8.40 (2.40 - 9.50)	2150 (430 - 2600)	3.91	
18 + 18 + 35	1.72 + 1.72 + 3.35	6.80 (2.20 - 7.80)	2080(420 - 2890)	3.27	2.28 + 2.28 + 3.93	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 18 + 42 <sup>(1)</sup>	1.57 + 1.57 + 3.66	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	1.85 + 1.85 + 4.80	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 18 + 50 <sup>(1)</sup>	1.42 + 1.42 + 3.95	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	1.85 + 1.85 + 4.80	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 18 + 60 <sup>(1)</sup>	1.28 + 1.28 + 4.25	6.80 (2.20 - 8.00)	2160(420 - 2960)	3.15	1.73 + 1.73 + 5.04	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 25 + 25	1.80 + 2.50 + 2.50	6.80 (2.20 - 7.50)	2080(420 - 2780)	3.27	2.28 + 3.11 + 3.11	8.50 (2.40 - 9.50)	2200 (430 - 2600)	3.86	
18 + 25 + 35	1.57 + 2.18 + 3.05	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.08 + 2.83 + 3.58	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 25 + 42 <sup>(1)</sup>	1.44 + 2.00 + 3.36	6.80 (2.20 - 8.00)	2080(440 - 2770)	3.27	1.71 + 2.33 + 4.46	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 25 + 50 <sup>(1)</sup>	1.32 + 1.83 + 3.66	6.80 (2.20 - 8.00)	2080(440 - 2770)	3.27	1.71 + 2.33 + 4.46	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 25 + 60 <sup>(1)</sup>	1.19 + 1.65 + 3.96	6.80 (2.20 - 8.00)	2160(420 - 2960)	3.15	1.61 + 2.19 + 4.70	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
18 + 35 + 35	1.39 + 2.70 + 2.70	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	1.91 + 3.29 + 3.29	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 35 + 42 <sup>(1)</sup>	1.29 + 2.51 + 3.01	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	1.60 + 2.75 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 35 + 50 <sup>(1)</sup>	1.19 + 2.31 + 3.30	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	1.60 + 2.75 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 25 + 25	2.27 + 2.27 + 2.27	6.80 (2.20 - 7.80)	2080(420 - 2890)	3.27	2.83 + 2.83 + 2.83	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
25 + 25 + 35	2.00 + 2.00 + 2.80	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.60 + 2.60 + 3.29	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
25 + 25 + 42 <sup>(1)</sup>	1.85 + 1.85 + 3.10	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.17 + 2.17 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 25 + 50 <sup>(1)</sup>	1.70 + 1.70 + 3.40	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.17 + 2.17 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 25 + 60 <sup>(1)</sup>	1.55 + 1.55 + 3.71	6.80 (2.20 - 8.00)	2160(420 - 2960)	3.15	2.05 + 2.05 + 4.40	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
25 + 35 + 35	1.79 + 2.51 + 2.51	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.41 + 3.05 + 3.05	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
25 + 35 + 42 <sup>(1)</sup>	1.67 + 2.33 + 2.80	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.04 + 2.57 + 3.89	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 35 + 50 <sup>(1)</sup>	1.55 + 2.16 + 3.09	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.04 + 2.57 + 3.89	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 42 + 42 <sup>(1)</sup>	1.56 + 2.62 + 2.62	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.04 + 2.57 + 3.89	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
35 + 35 + 35	2.27 + 2.27 + 2.27	6.80 (2.20 - 8.00)	2080(420 - 2960)	3.27	2.83 + 2.83 + 2.83	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	

<sup>(1)</sup> For each output corresponding to units 42, 50 and 60, a refrigerant adapter to switch from 3/8 to 1/2 is required.  
 \*\* RAM - 68NP3E + RAK - 18RPE + RAK - 25RPE + RAK - 25RPE.

RAM - 70NP4E	COOLING MODE				HEATING MODE				COP Class
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15	1.50	1.50 (1.00 - 1.60)	400 (200 - 480)	3.75	2.00	2.00 (1.10 - 2.20)	560 (320 - 850)	3.57	
18	1.80	1.80 (1.50 - 2.00)	450 (280 - 500)	4.00	2.50	2.50 (1.80 - 3.50)	720 (320 - 1130)	3.47	
25	2.50	2.50 (1.50 - 2.80)	650 (280 - 720)	3.85	3.40	3.40 (1.80 - 4.70)	980 (320 - 1480)	3.47	
35	3.50	3.50 (1.50 - 3.90)	1030 (280 - 1130)	3.40	4.30	4.30 (1.80 - 5.80)	1150 (320 - 1950)	3.74	
42	4.20	4.20 (1.50 - 5.60)	1450 (280 - 1800)	2.90	6.50	6.50 (1.80 - 7.20)	2030 (320 - 2530)	3.20	
50	5.00	5.00 (1.50 - 5.60)	1450 (280 - 1800)	3.45	6.50	6.50 (1.80 - 7.20)	2030 (320 - 2530)	3.20	
60	6.00	6.00 (1.50 - 6.60)	1450 (280 - 2290)	4.14	7.30	7.30 (1.80 - 8.50)	2100 (320 - 2860)	3.48	
15+ 15	1.50+ 1.50	3.00 (1.50 - 2.80)	870 (380 - 980)	3.45	2.00+ 2.00	4.00 (2.20 - 4.70)	1080 (200 - 1100)	3.70	
15+ 18	1.50+ 1.80	3.30 (1.50 - 3.50)	950 (380 - 1000)	3.47	2.00+ 2.50	4.50 (2.20 - 5.20)	1200 (200 - 1300)	3.75	
15+ 25	1.50+ 2.50	4.00 (1.50 - 4.00)	1150 (380 - 1300)	3.48	2.00+ 3.40	5.40 (2.20 - 6.40)	1450 (200 - 1780)	3.72	
15+ 35	1.50+ 3.50	5.00 (1.50 - 5.20)	1450 (380 - 1450)	3.45	2.00+ 4.30	6.30 (2.20 - 7.20)	1660 (200 - 2010)	3.80	
15+ 42	1.50+ 4.20	5.70 (1.50 - 5.90)	1950 (380 - 2380)	2.92	2.00+ 6.50	8.50 (2.20 - 7.20)	2200 (390 - 3120)	3.86	
15+ 50	1.50+ 5.00	6.50 (1.50 - 5.90)	2000 (380 - 2380)	3.25	2.00+ 6.50	8.50 (2.20 - 7.20)	2200 (390 - 3120)	3.86	
15+ 60	1.40+ 5.60	7.00 (1.50 - 6.50)	2000 (380 - 2580)	3.50	1.83+ 6.67	8.50 (2.20 - 8.60)	2200 (390 - 3120)	3.86	
18+ 18	1.80+ 1.80	3.60 (2.00 - 4.00)	1020 (380 - 1020)	3.53	2.50+ 2.50	5.00 (2.20 - 6.40)	1380 (390 - 2750)	3.62	
18+ 25	1.80+ 2.50	4.30 (2.00 - 4.70)	1120 (380 - 1360)	3.84	2.50+ 3.40	5.90 (2.20 - 7.20)	1610 (390 - 3000)	3.66	
18+ 35	1.80+ 3.50	5.30 (2.00 - 5.80)	1600 (380 - 1950)	3.31	2.50+ 4.30	6.80 (2.20 - 7.20)	1850 (390 - 3120)	3.68	
18+ 42	1.80+ 4.20	6.00 (2.00 - 7.10)	1800 (380 - 2820)	3.33	2.36+ 6.14	8.50 (2.20 - 9.50)	2110 (390 - 3120)	4.03	
18+ 50	1.80+ 5.00	6.80 (2.00 - 7.10)	1830 (380 - 2820)	3.72	2.36+ 6.14	8.50 (2.20 - 9.50)	2120 (390 - 3120)	4.01	
18+ 60	1.70+ 5.40	7.00 (2.00 - 7.50)	2100 (380 - 2980)	3.33	2.17+ 6.33	8.50 (2.20 - 9.50)	2150 (390 - 3120)	3.95	
25+ 25	2.50+ 2.50	5.00 (2.00 - 5.50)	1410 (380 - 1720)	3.55	3.40+ 3.40	6.80 (2.20 - 9.50)	1850 (390 - 3120)	3.68	
25+ 35	2.50+ 3.50	6.00 (2.00 - 6.60)	1850 (380 - 2380)	3.24	3.60+ 4.30	7.70 (2.20 - 9.50)	2120 (390 - 3120)	3.63	
25+ 42	2.50+ 4.20	6.70 (2.00 - 7.50)	2100 (380 - 2980)	3.19	2.92+ 5.58	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
25+ 50	2.33+ 4.67	7.00 (2.00 - 7.50)	2100 (380 - 2980)	3.33	2.92+ 5.58	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
25+ 60	2.06+ 4.94	7.00 (2.00 - 7.50)	2100 (380 - 2980)	3.33	2.70+ 5.80	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35+ 35	3.50+ 3.50	7.00 (2.00 - 7.40)	1890 (380 - 2940)	3.70	4.25+ 4.25	8.50 (2.20 - 9.50)	2020 (390 - 3120)	4.21	
35+ 42	3.18+ 3.82	7.00 (2.00 - 7.50)	2100 (380 - 2890)	3.33	3.38+ 5.12	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35+ 50	2.88+ 4.12	7.00 (2.00 - 7.50)	2100 (380 - 2890)	3.33	3.38+ 5.12	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35+ 60									

# Indoor unit combinations



Multi-splits indoor units

## Standard multi-splits

RAM - 70NP4E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15 + 15 + 15	1.50 + 1.50 + 1.50	4.50 (2.20 - 5.00)	1400 (420 - 1680)	3.21	2.00 + 2.00 + 2.00	6.00 (2.40 - 6.50)	1650 (430 - 1800)	3.64	
15 + 15 + 18	1.50 + 1.50 + 1.80	4.80 (2.20 - 5.50)	1480 (240 - 1880)	3.24	2.00 + 2.00 + 2.50	6.50 (2.40 - 7.00)	1750 (430 - 2100)	3.71	
15 + 15 + 25	1.50 + 1.50 + 2.50	5.50 (2.20 - 6.00)	1680 (420 - 2280)	3.27	2.00 + 2.00 + 3.40	7.40 (2.20 - 9.30)	2010 (430 - 2200)	3.68	
15 + 15 + 35	1.50 + 1.50 + 3.50	6.50 (2.20 - 7.00)	2010 (420 - 2480)	3.23	2.00 + 2.00 + 4.30	8.30 (2.40 - 9.50)	2260 (430 - 2500)	3.67	
15 + 15 + 42	1.46 + 1.46 + 4.08	7.00 (2.20 - 7.50)	2100 (420 - 2890)	3.33	1.62 + 1.62 + 5.26	8.50 (2.40 - 9.50)	2300 (430 - 2600)	3.70	
15 + 15 + 50	1.31 + 1.31 + 4.38	7.00 (2.20 - 7.50)	2100 (420 - 2890)	3.33	1.62 + 1.62 + 5.26	8.50 (2.40 - 9.50)	2300 (430 - 2600)	3.70	
15 + 15 + 60	1.17 + 1.17 + 4.67	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.53 + 1.38 + 5.59	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 18 + 18	1.50 + 1.80 + 1.80	5.10 (2.20 - 5.60)	1550 (420 - 2280)	3.29	2.00 + 2.50 + 2.50	7.00 (2.20 - 9.30)	1900 (430 - 2400)	3.68	
15 + 18 + 25	1.50 + 1.80 + 2.50	5.80 (2.20 - 6.30)	1800 (420 - 2480)	3.22	2.00 + 2.50 + 3.40	7.90 (2.40 - 9.50)	2150 (430 - 2600)	3.67	
15 + 18 + 35	1.50 + 1.80 + 3.50	6.80 (2.20 - 7.50)	2100 (420 - 2480)	3.24	1.93 + 2.41 + 4.15	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 18 + 42	1.40 + 1.68 + 3.92	7.00 (2.20 - 7.50)	2100 (420 - 2890)	3.33	1.55 + 1.93 + 5.02	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 18 + 50	1.27 + 1.52 + 4.22	7.00 (2.20 - 7.50)	2100 (420 - 2890)	3.33	1.55 + 1.93 + 5.02	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 18 + 60	1.13 + 1.35 + 4.52	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.44 + 1.80 + 5.26	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 25 + 25	1.50 + 2.50 + 2.50	6.50 (2.20 - 7.00)	2020 (420 - 2480)	3.22	1.93 + 3.28 + 3.28	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 25 + 35	1.40 + 2.33 + 3.27	7.00 (2.20 - 7.80)	2100 (420 - 2890)	3.33	1.75 + 2.98 + 3.77	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
15 + 25 + 42	1.28 + 2.13 + 3.59	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.43 + 2.43 + 4.64	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 25 + 50	1.17 + 1.94 + 3.89	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.43 + 2.43 + 4.64	8.50 (2.40 - 9.50)	2310 (430 - 2600)	3.68	
15 + 25 + 60	1.05 + 1.75 + 4.20	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.34 + 2.28 + 4.89	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 35 + 35	1.24 + 2.88 + 2.88	7.00 (2.20 - 8.00)	2100 (420 - 2890)	3.33	1.60 + 3.45 + 3.45	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 35 + 42	1.14 + 2.66 + 3.20	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.33 + 2.86 + 4.32	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 35 + 50	1.05 + 2.45 + 3.50	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.33 + 2.86 + 4.32	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 35 + 60	0.95 + 2.23 + 3.82	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.25 + 2.69 + 4.56	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 42 + 42	1.06 + 2.97 + 2.97	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.13 + 3.68 + 3.68	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 42 + 50	0.98 + 2.75 + 3.27	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.13 + 3.68 + 3.68	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
15 + 50 + 50	0.91 + 3.04 + 3.04	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.13 + 3.68 + 3.68	8.50 (2.40 - 9.50)	2260 (430 - 2600)	3.76	
18 + 18 + 18	1.80 + 1.80 + 1.80	5.40 (2.20 - 5.90)	1450 (420 - 2190)	3.72	2.50 + 2.50 + 2.50	7.50 (2.40 - 9.50)	2050 (430 - 2600)	3.66	
18 + 18 + 25	1.80 + 1.80 + 2.50	6.10 (2.20 - 6.70)	1720 (420 - 2480)	3.55	2.50 + 2.50 + 3.40	8.40 (2.40 - 9.50)	2290 (430 - 2600)	3.67	
18 + 18 + 35	1.77 + 1.77 + 3.45	7.00 (2.20 - 7.80)	2080 (420 - 2890)	3.37	2.28 + 2.28 + 3.93	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
18 + 18 + 42	1.62 + 1.62 + 3.77	7.00 (2.20 - 8.00)	2080 (420 - 2890)	3.37	1.85 + 1.85 + 4.80	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 18 + 50	1.47 + 1.47 + 4.07	7.00 (2.20 - 8.00)	2080 (420 - 2890)	3.37	1.85 + 1.85 + 4.80	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 18 + 60	1.35 + 1.35 + 4.40	7.00 (2.20 - 8.00)	2100 (420 - 2960)	3.33	1.73 + 1.73 + 5.04	8.50 (2.40 - 9.50)	2320 (430 - 2600)	3.66	
18 + 25 + 25	1.80 + 2.50 + 2.50	6.8 (2.20 - 7.50)	2080 (420 - 2780)	3.27	2.28 + 3.11 + 3.11	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
18 + 25 + 35	1.62 + 2.24 + 3.14	7.00 (2.20 - 8.00)	2080 (420 - 2890)	3.37	2.08 + 2.83 + 3.58	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
18 + 25 + 42	1.48 + 2.06 + 3.46	7.00 (2.20 - 8.00)	2080 (420 - 2770)	3.37	1.71 + 2.33 + 4.46	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 25 + 50	1.35 + 1.88 + 3.76	7.00 (2.20 - 8.00)	2080 (420 - 2770)	3.37	1.71 + 2.33 + 4.46	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 25 + 60	1.25 + 1.70 + 4.15	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	1.61 + 2.19 + 4.70	8.50 (2.40 - 9.50)	2320 (430 - 2600)	3.66	
18 + 35 + 35	1.43 + 2.78 + 2.78	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	1.91 + 3.29 + 3.29	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
18 + 35 + 42	1.33 + 2.58 + 3.09	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	1.60 + 2.75 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 35 + 50	1.22 + 2.38 + 3.40	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	1.60 + 2.75 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 42 + 42	1.24 + 2.88 + 2.88	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	1.60 + 2.75 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
18 + 42 + 50	1.15 + 2.67 + 3.18	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	1.60 + 2.75 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 25 + 25	2.33 + 2.33 + 2.33	7.00 (2.20 - 7.80)	2080 (420 - 2890)	3.37	2.83 + 2.83 + 2.83	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
25 + 25 + 35	2.06 + 2.06 + 2.88	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.60 + 2.60 + 3.29	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
25 + 25 + 42	1.90 + 1.90 + 3.20	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.17 + 2.17 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 25 + 50	1.75 + 1.75 + 3.50	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.17 + 2.17 + 4.15	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 25 + 60	1.60 + 1.60 + 3.90	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.05 + 2.05 + 4.40	8.50 (2.40 - 9.50)	2320 (430 - 2600)	3.66	
25 + 35 + 35	1.84 + 2.58 + 2.58	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.41 + 3.05 + 3.05	8.50 (2.40 - 9.50)	2290 (430 - 2600)	3.71	
25 + 35 + 42	1.72 + 2.40 + 2.88	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.04 + 2.57 + 3.89	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
25 + 35 + 50	1.59 + 2.23 + 3.18	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.04 + 2.57 + 3.89	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	
35 + 35 + 35	2.33 + 2.33 + 2.33	7.00 (2.20 - 8.00)	2080 (420 - 2960)	3.37	2.83 + 2.83 + 2.83	8.50 (2.40 - 9.50)	2280 (430 - 2600)	3.73	

\*\* RAM - 70NP4E + RAK - 35RPE + RAK - 35RPE.

RAM - 70NP4E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15 + 15 + 15 + 15	1.50 + 1.50 + 1.50 + 1.50	6.00 (2.20 - 6.50)	1600 (200 - 1660)	3.75	2.00 + 2.00 + 2.00 + 2.00	8.00 (2.60 - 9.00)	2150 (460 - 2420)	3.72	
15 + 15 + 15 + 18	1.50 + 1.50 + 1.50 + 1.80	6.30 (2.20 - 6.70)	1650 (420 - 2010)	3.82	2.00 + 2.00 + 2.00 + 2.50	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 15 + 15 + 25	1.50 + 1.50 + 1.50 + 2.50	7.00 (2.20 - 7.50)	1890 (420 - 2010)	3.70	1.81 + 1.81 + 1.81 + 3.07	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 15 + 35	1.31 + 1.31 + 1.31 + 3.06	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.65 + 1.65 + 1.65 + 3.55	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 15 + 42	1.21 + 1.21 + 1.21 + 3.38	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.36 + 1.36 + 1.36 + 4.42	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 15 + 50	1.11 + 1.11 + 1.11 + 3.68	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.36 + 1.36 + 1.36 + 4.42	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 15 + 60	1.00 + 1.00 + 1.00 + 4.00	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.28 + 1.28 + 1.28 + 4.67	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 18 + 18	1.50 + 1.50 + 1.80 + 1.80	6.60 (2.20 - 7.00)	1850 (420 - 2010)	3.57	1.89 + 1.89 + 2.36 + 2.36	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 18 + 25	1.44 + 1.44 + 1.73 + 2.40	7.00 (2.40 - 7.50)	2010 (420 - 2310)	3.48	1.72 + 1.72 + 2.15 + 2.92	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 18 + 35	1.27 + 1.27 + 1.52 + 2.95	7.00 (2.40 - 7.70)	2100 (450 - 2650)	3.33	1.57 + 1.57 + 1.97 + 3.38	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 18 + 42	1.17 + 1.17 + 1.40 + 3.27	7.00 (2.40 - 7.70)	2100 (450 - 2650)	3.33	1.31 + 1.31 + 1.63 + 4.25	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 18 + 50	1.07 + 1.07 + 1.29 + 3.57	7.00 (2.40 - 7.70)	2100 (450 - 2650)	3.33	1.31 + 1.31 + 1.63 + 4.25	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 18 + 60	0.97 + 0.97 + 1.17 + 3.89	7.00 (2.40 - 7.70)	2100 (450 - 3020)	3.33	1.23 + 1.23 + 1.54 + 4.50	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 15 + 25 + 25	1.31 + 1.31 + 2.19 + 2.19	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.57 + 1.57 + 2.68 + 2.68	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 25 + 35	1.17 + 1.17 + 1.94 + 2.72	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.45 + 1.45 + 2.47 + 3.12	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 25 + 42	1.08 + 1.08 + 1.80 + 3.03	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.22 + 1.22 + 2.08 + 3.97	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 15 + 25 + 50	1.00 + 1.00 + 1.67 + 3.33	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.22 + 1.22 + 2.08 + 3.97	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 15 + 25 + 60	0.91 + 0.91 + 1.52 + 3.65	7.00 (2.40 - 8.80)	2100 (450 - 3020)	3.33	1.16 + 1.16 + 1.97 + 4.22	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 15 + 35 + 35	1.05 + 1.05 + 2.45 + 2.45	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.35 + 1.35 + 2.90 + 2.90	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86	
15 + 15 + 35 + 42	0.98 + 0.98 + 2.29 + 2.75	7.00 (2.40 - 8.80)	2100 (450 - 3020)	3.33	1.15 + 1.15 + 2.47 + 3.73	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 15 + 35 + 50	0.91 + 0.91 + 2.13 + 3.04	7.00 (2.40 - 8.80)	2100 (450 - 3020)	3.33	1.15 + 1.15 + 2.47 + 3.73	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90	
15 + 18 + 18 + 18	1.50 + 1.80 + 1.80 + 1.80	6.90 (2.40 - 7.50)	2010 (420 - 2310)	3.43	1.79 + 2.24 + 2.24				

# Indoor unit combinations



Multi-splits indoor units

## Standard multi-splits

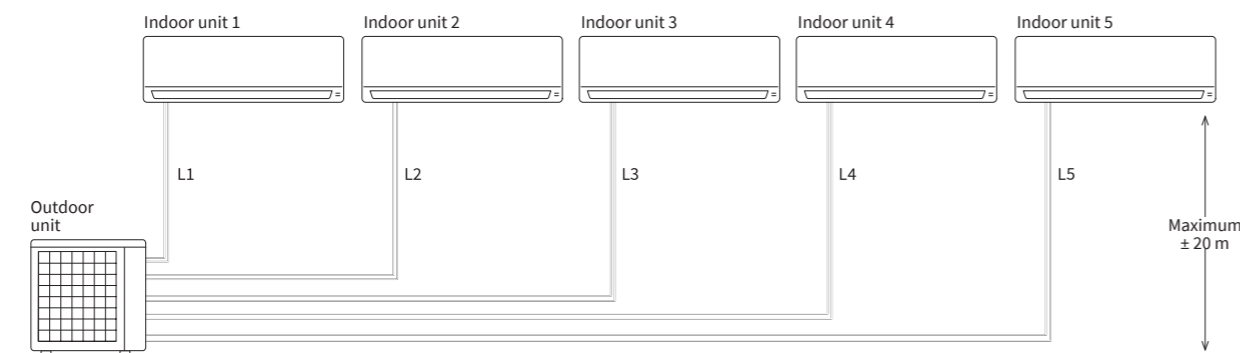
RAM - 90NP5E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
1 unit*	15	1.50	1.50 (1.00 - 1.60)	420 (320 - 480)	3.59	2.00	2.00 (1.50 - 2.20)	620 (360 - 850)	3.23
	18	2.00	1.80 (1.70 - 2.00)	500 (320 - 610)	3.60	2.50	2.50 (2.00 - 3.00)	780 (360 - 920)	3.21
	25	2.50	2.50 (1.70 - 2.80)	700 (320 - 860)	3.57	3.40	3.40 (2.00 - 4.00)	1140 (360 - 1340)	2.98
	35	3.50	3.50 (1.70 - 3.90)	1040 (320 - 1270)	3.37	4.30	4.30 (2.00 - 5.20)	1420 (360 - 1720)	3.03
	42	4.20	4.20 (1.70 - 4.20)	1250 (320 - 1270)	3.36	5.20	4.30 (2.00 - 6.50)	1420 (360 - 1720)	3.03
	50	5.00	5.00 (1.70 - 5.50)	1540 (320 - 1860)	3.25	6.50	6.50 (2.00 - 7.30)	2300 (360 - 2580)	2.83
	60	6.00	6.00 (1.70 - 6.60)	1630 (320 - 1860)	3.68	7.50	6.50 (2.00 - 8.20)	2300 (360 - 2950)	2.83
2 units	15+15	1.50+1.50	3.00 (2.40 - 3.50)	850 (500 - 1020)	3.53	2.00+2.00	4.00 (2.70 - 4.50)	950 (500 - 1140)	4.21
	15+18	1.50+1.80	3.30 (2.40 - 3.80)	950 (500 - 1140)	3.47	2.00+2.50	4.50 (2.70 - 5.00)	1180 (500 - 1416)	3.81
	15+25	1.50+2.50	4.00 (2.40 - 4.50)	1250 (500 - 1500)	3.20	2.00+3.40	5.40 (2.70 - 5.90)	1320 (500 - 1584)	4.09
	15+35	1.50+3.50	5.00 (2.40 - 5.50)	1550 (500 - 1860)	3.23	2.00+4.30	6.30 (2.70 - 6.80)	1550 (500 - 1860)	4.06
	15+42	1.50+4.20	5.70 (2.40 - 7.00)	1600 (500 - 1860)	3.56	2.00+5.20	7.20 (2.70 - 8.00)	1850 (500 - 2560)	3.89
	15+50	1.50+5.00	6.50 (2.40 - 7.00)	2100 (500 - 2520)	3.10	2.00+6.50	8.50 (2.70 - 9.00)	2300 (500 - 2760)	3.70
	15+60	1.50+6.00	7.50 (2.40 - 7.00)	2100 (500 - 2520)	3.57	2.00+7.50	9.50 (2.70 - 10.0)	2300 (500 - 2760)	4.13
	18+18	1.80+1.80	3.60 (2.40 - 4.00)	820 (500 - 860)	4.39	2.50+2.50	5.00 (2.70 - 6.90)	1240 (500 - 1710)	4.03
	18+25	1.80+2.50	4.30 (2.40 - 4.70)	1000 (500 - 1190)	4.30	2.50+3.40	5.90 (2.70 - 7.70)	1530 (500 - 1990)	3.86
	18+35	1.80+3.50	5.30 (2.40 - 5.80)	1590 (500 - 1900)	3.33	2.50+4.30	6.80 (2.70 - 8.50)	1870 (500 - 2320)	3.64
	18+42	1.59+3.71	5.30 (2.40 - 5.80)	1590 (500 - 1900)	3.33	2.50+5.20	7.70 (2.70 - 10.00)	2200 (500 - 2880)	3.50
	18+50	1.80+5.00	6.80 (2.40 - 7.50)	2370 (450 - 2970)	2.87	2.50+6.50	9.00 (2.70 - 10.00)	2470 (500 - 2880)	3.64
	18+60	1.57+5.23	6.80 (2.40 - 8.50)	2370 (450 - 3120)	2.87	2.50+7.50	10.00 (2.70 - 10.00)	2470 (500 - 2880)	4.05
	25+25	2.50+2.50	5.00 (2.40 - 5.50)	1370 (500 - 1640)	3.65	3.40+3.40	6.80 (2.70 - 8.50)	1920 (500 - 2250)	3.54
	25+35	2.50+3.50	6.00 (2.40 - 6.60)	2000 (500 - 2400)	3.00	3.40+4.30	7.70 (2.70 - 9.20)	2280 (500 - 2590)	3.38
	25+42	2.24+3.76	6.00 (2.40 - 6.60)	2000 (500 - 3470)	3.00	3.40+5.20	8.60 (2.70 - 9.20)	2400 (500 - 3110)	3.58
	25+50	2.50+5.00	7.50 (2.40 - 7.00)	2580 (500 - 3470)	2.91	3.40+6.50	9.90 (2.70 - 10.50)	2720 (500 - 3110)	3.64
	25+60	2.21+5.29	8.50 (2.40 - 8.80)	2580 (500 - 3470)	2.91	3.12+6.88	10.00 (2.70 - 11.00)	2720 (500 - 3110)	3.68
	35+35	3.50+3.50	7.00 (2.40 - 7.70)	2490 (450 - 2990)	2.81	4.30+4.30	8.60 (2.70 - 10.00)	2460 (500 - 2860)	3.50
	35+42	3.18+3.82	7.00 (2.40 - 7.70)	2490 (500 - 2990)	2.81	4.30+5.20	9.50 (2.70 - 11.00)	2680 (500 - 3320)	3.54
	35+50	3.50+5.00	8.50 (2.40 - 8.80)	2500 (500 - 3270)	3.40	3.98+6.02	10.00 (2.70 - 11.00)	2560 (500 - 3320)	3.90
	35+60	3.13+5.37	8.50 (2.40 - 9.10)	2700 (500 - 3270)	3.14	3.64+6.36	10.00 (2.70 - 11.40)	2790 (500 - 3320)	3.58
	42+42	3.50+3.50	7.00 (2.40 - 8.80)	2490 (450 - 3270)	2.81	4.30+4.30	8.60 (2.70 - 11.00)	2460 (500 - 3200)	3.50
	42+50	3.88+4.62	8.50 (2.40 - 8.80)	2900 (450 - 3270)	2.93	4.30+5.20	9.50 (2.70 - 11.00)	2940 (500 - 3200)	3.23
	42+60	3.50+5.00	8.50 (2.40 - 9.10)	2900 (450 - 3420)	2.93	3.98+6.02	10.00 (2.70 - 11.40)	2940 (500 - 3200)	3.40
	50+50	4.25+4.25	8.5 (2.40 - 9.20)	2900 (450 - 3460)	2.93	5.00+5.00	10.00 (2.70 - 11.40)	2940 (500 - 3200)	3.40
	50+60	3.86+4.64	8.5 (2.40 - 9.60)	2900 (450 - 3570)	2.93	4.44+5.56	10.00 (2.70 - 11.60)	2940 (500 - 3200)	3.40
	60+60	4.25+4.25	8.50 (2.40 - 9.90)	2900 (450 - 3870)	2.93	5.00+5.00	10.00 (2.70 - 12.10)	2940 (500 - 3200)	3.40

\* For information: these are performances when a single unit is in operation. However, a minimum of 2 units must be connected to the outdoor unit.  
 \*\* RAM - 90NP5E + RAK - 25RPE + RAK - 25RPE + RAK - 35RPE.

## Refrigerant lengths

### RAM-90NP5E

L1 + L2 + L3 + L4 + L5 = Maximum 75 m ; L1 < 25 m ; L2 < 25 m ; L3 < 25 m ; L4 < 25 m ; L5 < 25 m  
 Maximum height between the highest indoor unit and the lowest indoor unit: 5 m. Pre-charged for 30 m.  
 Additional 15 g/m required beyond 30 m. Always connect the most powerful indoor unit to the lowest connector  
 Connector 3 is designed for indoor units 18, 25 or 35. Otherwise, a 3/8 to 1/2 adapter is required.



RAM - 90NP5E	COOLING MODE				HEATING MODE				
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP	
3 units	15 + 15 + 15	1.50 + 1.50 + 1.50	4.50 (2.70 - 5.00)	1250 (510 - 1500)	3.60	2.00 + 2.00 + 2.00	6.00 (2.90 - 6.50)	1540 (520 - 1848)	3.90
	15 + 15 + 18	1.50 + 1.50 + 1.80	4.80 (2.70 - 5.30)	1350 (510 - 1620)	3.56	2.00 + 2.00 + 2.50	6.50 (2.90 - 7.00)	1800 (520 - 2160)	3.61
	15 + 15 + 25	1.50 + 1.50 + 2.50	5.50 (2.70 - 6.00)	1490 (510 - 1788)	3.69	2.00 + 2.00 + 3.40	7.40 (2.90 - 7.90)	2010 (520 - 2412)	3.68
	15 + 15 + 35	1.50 + 1.50 + 3.50	6.50 (2.70 - 7.00)	2100 (510 - 2678)	3.10	2.00 + 2.00 + 4.30	8.30 (2.90 - 8.80)	2420 (520 - 2904)	3.43
	15 + 15 + 42	1.50 + 1.50 + 4.20	7.20 (2.70 - 8.50)	2150 (510 - 2676)	3.35	2.00 + 2.00 + 5.20	9.20 (2.90 - 11.00)	2180 (520 - 1848)	4.22
	15 + 15 + 50	1.50 + 1.50 + 5.00	8.00 (2.70 - 8.50)	2230 (510 - 2676)	3.59	1.90 + 1.90 + 6.19	10.00 (2.90 - 11.00)	2730 (520 - 1848)	3.66
	15 + 15 + 60	1.50 + 1.50 + 6.00	9.00 (2.70 - 8.50)	2230 (510 - 2676)	4.04	1.74 + 1.74 + 6.52	10.00 (2.90 - 11.50)	2730 (520 - 1848)	3.66
	15 + 18 + 18	1.50 + 1.80 + 1.80	5.10 (2.70 - 5.60)	1350 (510 - 1620)	3.78	2.00 + 2.50 + 2.50	7.00 (2.90 - 7.50)	1880 (520 - 2280)	3.72
	15 + 18 + 25	1.50 + 1.80 + 2.50	5.80 (2.70 - 6.30)	1350 (510 - 1620)	4.30	2.00 + 2.50 + 3.40	7.90 (2.90 - 8.40)	2130 (520 - 2616)	3.71
	15 + 18 + 35	1.50 + 1.80 + 3.50	6.80 (2.70 - 7.30)	1850 (510 - 2844)	3.68	2.00 + 2.50 + 4.30	8.80 (2.90 - 9.30)	2350 (520 - 1848)	3.74
	15 + 18 + 42	1.50 + 1.80 + 4.20	7.50 (2.40 - 7.00)	1950 (510 - 2844)	3.85	2.00 + 2.50 + 5.20	9.70 (2.90 - 11.00)	2350 (520 - 3360)	4.13
	15 + 18 + 50	1.50 + 1.80 + 5.00	8.30 (2.70 - 8.80)	2230 (510 - 2844)	3.72	1.82 + 2.27 + 5.91	10.00 (2.90 - 11.50)	2850 (520 - 3360)	3.51
	15 + 18 + 60	1.50 + 1.80 + 6.00	9.30 (2.70 - 8.80)	2230 (510 - 2844)	4.17	1.67 + 2.08 + 6.25	10.00 (2.90 - 11.50)	2850 (520 - 3360)	3.51
	15 + 25 + 25	1.50 + 2.50 + 2.50	6.50 (2.70 - 7.00)	1800 (510 - 2520)	3.61	2.00 + 3.40 + 3.40	8.80 (2.90 - 9.30)	2350 (520 - 1848)	3.74
	15 + 25 + 35	1.50 + 2.50 + 3.50	7.50 (2.40 - 7.00)	2100 (510 - 3096)	3.57	2.00 + 3.40 + 4.30	9.70 (2.90 - 10.20)	2620 (520 - 1848)	3.70
	15 + 25 + 42	1.50 + 2.50 + 4.20	8.20 (2.70 - 9.50)	2200 (510 - 3360)	3.73	1.89 + 3.21 + 4.91	10.00 (2.70 - 11.00)	2620 (520 - 1848)	3.82
	15 + 25 + 50	1.50 + 2.50 + 5.00	9.00 (2.70 - 9.50)	2680 (510 - 3360)	3.36	1.68 + 2.86 + 5.46	10.00 (2.70 - 11.50)	2890 (520 - 3360)	3.46
	15 + 25 + 60	1.50 + 2.50 + 6.00	10.00 (2.70 - 9.50)	2680 (510 - 3360)	3.73	1.55 + 2.64 + 5.81	10.00 (2.70 - 11.50)	2890 (520 - 3360)	3.46
	15 + 35 + 35	1.50 + 3.50 + 3.50	8.50 (2.70 - 9.00)	2560 (510 - 3360)	3.32	1.89 + 4.06 + 4.06	10.00 (2.90 - 11.10)	2990 (520 - 3360)	3.34
	15 + 35 + 42	1.47 + 3.42 + 4.11	9.00 (2.70 - 9.50)	2560 (510 - 3216)	3.52	1.74 + 3.74 + 4.52	10.00 (2.90 - 11.10)	2990 (520 - 3360)	3.34
	15 + 35 + 50	1.35 + 3.15 + 4.50	9.00 (2.70 - 9.50)	2740 (510 - 3216)	3.28	1.56 + 3.36 + 5.08	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 35 + 60	1.23 + 2.86 + 4.91	9.00 (2.70 - 9.50)	2740 (510 - 3216)	3.28	1.45 + 3.12 + 5.43	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 42 + 42	1.36 + 3.82 + 3.82	9.00 (2.70 - 9.50)	2560 (510 - 3216)	3.52	1.61 + 4.19 + 4.19	10.00 (2.90 - 11.10)	2990 (520 - 3360)	3.34
	15 + 42 + 50	1.26 + 3.53 + 4.21	9.00 (2.70 - 9.50)	2740 (510 - 3216)	3.28	1.46 + 3.80 + 4.74	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 42 + 60	1.15 + 3.23 + 4.62	9.00 (2.70 - 9.50)	2740 (510 - 3216)	3.28	1.36 + 3.54 + 5.10	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 50 + 50	1.17 + 3.91 + 3.91	9.00 (2.70 - 9.50)	2740 (510 - 3216)	3.28	1.33 + 4.33 + 4.33	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 50 + 60	1.08 + 3.60 + 4.32	9.00 (2.70 - 9.50)	2740 (510 - 3216)	3.28	1.25 + 4.06 + 4.69	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 60 + 60	1.00 + 4.00 + 4.00	9.00 (2.70 - 9.50)	2740 (510 - 3288)	3.28	1.18 + 4.41 + 4.41	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	18 + 18 + 18	1.80 + 1.80 + 1.80	5.40 (2.70 - 5.90)	1480 (510 - 1780)	3.65	2.50 + 2.50 + 2.50	7.50 (2.90 - 9.10)	2020 (520 - 2440)	3.71
	18 + 18 + 25	1.80 + 1.80 + 2.50	6.10 (2.70 - 6.70)	1780 (510 - 2150)	3.43	2.50 + 2.50 + 3.40	8.40 (2.90 - 9.50)	2210 (520 - 2620)	3.80
18 + 18 + 35	1.80 + 1.80 + 3.50	7.10 (2.70 - 7.80)	1910 (510 - 2310)	3.72	2.50 + 2.50 + 4.29	10.00 (2.90 - 10.20)	2370 (520 - 2740)	3.92	
18 + 18 + 42	1.80 + 1.80 + 4.20	7.80 (2.70 - 7.80)	1910 (510 - 3260)	4.08	2.45 + 2.45 + 5.09	10.00 (2.90 - 10.20)	2370 (520 - 3060)	4.22	
18 + 18 + 50	1.78 + 1.78 + 4.94	8.50 (2.70 - 9.50)	2650 (510 - 3260)	3.21	2.17 + 2.17 + 5.64	10.00 (2.90 - 11.30)	2730 (520 - 3060)	3.66	
18 + 18 + 60	1.59 + 1.59 + 5.31	8.50 (2.70 - 9.90)	2650 (510 - 3270)	3.21	2.00 + 2.00 + 5.99	10.00 (2.90 - 11.60)	2730 (520 - 3060)	3.66	
18 + 25 + 25	1.80 + 2.50 + 2.50	6.80 (2.70 - 7.50)	1860 (510 - 2260)	3.66	2.49 + 3.41 + 3.41	9.30 (2.90 - 10.00)	2370 (520 - 2760)	3.92	
18 + 25 + 35	1.80 + 2.50 + 3.50	7.80 (2.70 - 8.60)	2190 (510 - 2660)	3.56	2.45				

# Indoor unit combinations



Multi-splits indoor units

## Standard multi-splits

RAM - 90NP5E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15 + 15 + 15 + 15	1.50 + 1.50 + 1.50 + 1.50	6.00 (2.90 - 6.50)	1580 (550 - 1620)	3.80	2.00 + 2.00 + 2.00 + 2.00	8.00 (3.00 - 8.50)	2000 (540 - 2652)	4.00	
15 + 15 + 15 + 18	1.50 + 1.50 + 1.50 + 1.80	6.30 (2.90 - 6.50)	1630 (550 - 1776)	3.87	2.00 + 2.00 + 2.00 + 2.50	8.50 (3.00 - 9.00)	2200 (540 - 2760)	3.86	
15 + 15 + 15 + 25	1.50 + 1.50 + 1.50 + 2.50	7.00 (2.90 - 7.50)	1780 (550 - 2136)	3.93	2.00 + 2.00 + 2.00 + 3.40	9.40 (3.00 - 9.90)	2390 (540 - 3036)	3.93	
15 + 15 + 15 + 35	1.50 + 1.50 + 1.50 + 3.50	8.00 (2.90 - 8.50)	2500 (550 - 3180)	3.20	1.94 + 1.94 + 1.94 + 4.17	10.00 (3.00 - 10.8)	2550 (540 - 3468)	3.92	
15 + 15 + 15 + 42	1.47 + 1.47 + 1.47 + 4.10	8.50 (2.90 - 8.50)	2600 (550 - 3180)	3.27	1.79 + 1.79 + 1.79 + 4.64	10.00 (3.00 - 11.50)	2550 (540 - 3360)	3.92	
15 + 15 + 15 + 50	1.34 + 1.34 + 1.34 + 4.47	8.50 (2.90 - 8.50)	2650 (550 - 3180)	3.21	1.60 + 1.60 + 1.60 + 5.20	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 15 + 60	1.21 + 1.21 + 1.21 + 4.86	8.50 (2.90 - 8.50)	2650 (550 - 3180)	3.21	1.48 + 1.48 + 1.48 + 5.56	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 18 + 18	1.50 + 1.50 + 1.80 + 1.80	6.60 (2.90 - 7.10)	1750 (550 - 2100)	3.77	2.00 + 2.00 + 2.50 + 2.50	9.00 (3.00 - 9.50)	2380 (540 - 3048)	3.78	
15 + 15 + 18 + 25	1.50 + 1.50 + 1.80 + 2.50	7.30 (2.90 - 7.80)	1850 (550 - 2220)	3.95	2.00 + 2.00 + 2.50 + 3.40	9.90 (3.00 - 10.40)	2530 (540 - 3144)	3.91	
15 + 15 + 18 + 35	1.50 + 1.50 + 1.80 + 3.50	8.30 (2.90 - 8.80)	2180 (550 - 2616)	3.81	1.85 + 1.85 + 2.31 + 3.98	10.00 (3.00 - 11.30)	2480 (540 - 3468)	4.03	
15 + 15 + 18 + 42	1.42 + 1.42 + 1.70 + 3.97	8.50 (2.90 - 8.50)	2350 (550 - 3120)	3.62	1.71 + 1.71 + 2.14 + 4.44	10.00 (3.00 - 11.30)	2480 (540 - 3360)	4.03	
15 + 15 + 18 + 50	1.30 + 1.30 + 1.50 + 4.34	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.54 + 1.54 + 1.92 + 5.00	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 18 + 60	1.18 + 1.18 + 1.42 + 4.72	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.43 + 1.43 + 1.79 + 5.36	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 25 + 25	1.50 + 1.50 + 2.50 + 2.50	8.00 (2.90 - 8.50)	2150 (550 - 2580)	3.72	1.85 + 1.85 + 3.15 + 3.15	10.00 (3.00 - 11.30)	2480 (540 - 3420)	4.03	
15 + 15 + 25 + 35	1.42 + 1.42 + 2.36 + 3.31	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.71 + 1.71 + 2.91 + 3.68	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 25 + 42	1.31 + 1.31 + 2.19 + 3.68	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.59 + 1.59 + 2.70 + 4.13	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 25 + 50	1.21 + 1.21 + 2.02 + 4.05	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.44 + 1.44 + 2.45 + 4.68	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 25 + 60	1.11 + 1.11 + 1.85 + 4.43	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.34 + 1.34 + 2.28 + 5.03	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 35 + 35	1.28 + 1.28 + 2.98 + 2.98	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.59 + 1.59 + 3.41 + 3.41	10.00 (3.00 - 11.30)	2890 (540 - 3480)	3.46	
15 + 15 + 35 + 42	1.19 + 1.19 + 2.78 + 3.34	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.48 + 1.48 + 3.19 + 3.85	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 15 + 35 + 50	1.11 + 1.11 + 2.59 + 3.70	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.35 + 1.35 + 2.91 + 4.39	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 15 + 35 + 60	1.02 + 1.02 + 2.38 + 4.08	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.27 + 1.27 + 2.72 + 4.75	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 15 + 42 + 42	1.12 + 1.12 + 3.13 + 3.13	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.59 + 1.59 + 3.41 + 3.41	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 15 + 42 + 50	1.05 + 1.05 + 2.93 + 3.48	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.48 + 1.48 + 3.19 + 3.85	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 15 + 42 + 60	0.97 + 0.97 + 2.70 + 3.86	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.35 + 1.35 + 2.91 + 4.39	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 15 + 50 + 50	0.98 + 0.98 + 3.27 + 3.27	8.50 (2.50 - 8.50)	2600 (550 - 3210)	3.27	1.39 + 1.39 + 3.61 + 3.61	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 15 + 50 + 60	0.91 + 0.91 + 3.04 + 3.64	8.50 (2.50 - 8.50)	2600 (550 - 3210)	3.27	1.27 + 1.27 + 3.31 + 4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 18 + 18	1.50 + 1.80 + 1.80 + 1.80	6.90 (2.50 - 7.40)	2140 (550 - 2244)	3.22	2.00 + 2.50 + 2.50 + 2.50	9.50 (3.00 - 10.00)	2750 (540 - 3144)	3.45	
15 + 18 + 18 + 25	1.50 + 1.80 + 1.80 + 2.50	7.60 (2.50 - 8.10)	2140 (550 - 2568)	3.55	1.92 + 2.40 + 2.40 + 3.27	10.00 (3.00 - 10.90)	2750 (540 - 3468)	3.64	
15 + 18 + 18 + 35	1.48 + 1.78 + 1.78 + 3.46	8.50 (2.50 - 8.50)	2140 (550 - 3060)	3.97	1.77 + 2.21 + 2.21 + 3.81	10.00 (3.00 - 11.50)	2750 (540 - 3360)	3.64	
15 + 18 + 18 + 42	1.37 + 1.65 + 1.65 + 3.84	8.50 (2.50 - 8.50)	2550 (550 - 3120)	3.33	1.64 + 2.05 + 2.05 + 4.26	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 18 + 50	1.26 + 1.51 + 1.51 + 4.21	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.48 + 1.85 + 1.85 + 4.81	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 18 + 60	1.15 + 1.38 + 1.38 + 4.59	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.38 + 1.72 + 1.72 + 5.17	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 25 + 25	1.50 + 1.80 + 2.50 + 2.50	8.30 (2.50 - 8.30)	2740 (550 - 3288)	3.03	1.77 + 2.21 + 3.01 + 3.01	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 25 + 35	1.37 + 1.65 + 2.28 + 3.52	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.64 + 2.05 + 2.79 + 3.52	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 25 + 42	1.28 + 1.53 + 2.13 + 3.57	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53 + 1.91 + 2.60 + 3.97	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 25 + 50	1.18 + 1.42 + 1.97 + 3.94	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.39 + 1.74 + 2.36 + 4.51	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 25 + 60	1.08 + 1.30 + 1.80 + 4.32	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.30 + 1.62 + 2.21 + 4.87	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 35 + 35	1.24 + 1.49 + 2.89 + 2.89	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53 + 1.91 + 3.28 + 3.28	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 35 + 42	1.16 + 1.39 + 2.70 + 3.25	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43 + 1.79 + 3.07 + 3.71	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 35 + 50	1.08 + 1.30 + 2.52 + 3.60	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.31 + 1.63 + 2.81 + 4.25	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 18 + 35 + 60	1.00 + 1.20 + 2.32 + 3.98	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23 + 1.53 + 2.64 + 4.60	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46	
15 + 18 + 42 + 42	1.09 + 1.31 + 3.05 + 3.05	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53 + 1.91 + 3.28 + 3.28	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57	
15 + 18 + 42 + 50	1.02 + 1.22 + 2.86 + 3.40	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43 + 1.79 + 3.07 + 3.71	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57	
15 + 18 + 42 + 60	0.94 + 1.13 + 2.64 + 3.78	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.31 + 1.63 + 2.81 + 4.25	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57	
15 + 18 + 50 + 50	0.96 + 1.15 + 3.20 + 3.20	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.34 + 1.68 + 3.49 + 3.49	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57	
15 + 18 + 50 + 60	0.89 + 1.07 + 2.97 + 3.57	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23 + 1.54 + 3.21 + 4.01	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57	
15 + 18 + 60 + 60	0.83 + 1.00 + 3.33 + 3.33	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.14 + 1.43 + 3.71 + 3.71	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57	
15 + 25 + 25 + 25	1.42 + 2.36 + 2.36 + 2.36	8.50 (2.50 - 8.50)	2600 (550 - 3132)	3.27	1.64 + 2.79 + 2.79 + 2.79	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 25 + 35	1.28 + 2.13 + 2.13 + 2.98	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53 + 2.60 + 2.60 + 3.28	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 25 + 42	1.19 + 1.99 + 1.99 + 3.34	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43 + 2.43 + 2.43 + 3.71	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 25 + 50	1.11 + 1.85 + 1.85 + 3.70	8.50 <sup>(2)</sup>	2600 (550 - 3120)	3.27	1.31 + 2.22 + 2.22 + 4.25	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 25 + 60	1.02 + 1.70 + 1.70 + 4.08	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23 + 2.09 + 2.09 + 4.60	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 35 + 35	1.16 + 1.93 + 2.70 + 2.70	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43 + 2.43 + 3.07 + 3.07	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 35 + 42	1.09 + 1.82 + 2.54 + 3.05	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.34 + 2.28 + 2.89 + 3.49	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 35 + 50	1.02 + 1.70 + 2.38 + 3.40	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23 + 2.10 + 2.65 + 4.01	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 35 + 60	0.94 + 1.57 + 2.20 + 3.78	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.16 + 1.98 + 2.50 + 4.36	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 42 + 42	1.03 + 1.71 + 2.88 + 2.88	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.27 + 2.15 + 3.29 + 3.29	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 42 + 50	0.97 + 1.61 + 2.70 + 3.22	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.17 + 1.99 + 3.04 + 3.80	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 42 + 60	0.90 + 1.50 + 2.51 + 3.59	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.10 + 1.88 + 2.87 + 4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 50 + 50	0.91 + 1.52 + 3.04 + 3.04	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.09 + 1.85 + 3.53 + 3.53	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 25 + 50 + 60	0.85 + 1.42 + 2.83 + 3.40	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.03 + 1.75 + 3.35 + 3.87	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 35 + 35 + 35	1.06 + 2.48 + 2.48 + 2.48	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.34 + 2.89 + 2.89 + 2.89	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 35 + 35 + 42	1.00 + 2.34 + 2.34 + 2.81	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.27 + 2.72 + 2.72 + 3.29	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 35 + 35 + 50	0.94 + 2.20 + 2.20 + 3.15	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.17 + 2.51 + 2.51 + 3.80	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 35 + 35 + 60	0.88 + 2.05 + 2.05 + 3.52	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.10 + 2.38 + 2.38 + 4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 35 + 42 + 42	0.95 + 2.22 + 2.66 + 2.66	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.20 + 2.57 + 3.11 + 3.11	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 + 35 + 42 + 50	0.90 + 2.10 + 2.51 + 2.99	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.11 + 2.39 + 2.89 + 3.61	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46	
15 +									



# Indoor unit combinations

## Standard multi-splits

Multi-splits indoor units

RAM - 90NP5E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15+15+15+15+15	1.50+1.50+1.50+1.50+1.50	7.50 (2.40 - 7.00)	2200 (550 - 2800)	3.41	2.00+2.00+2.00+2.00+2.00	10.00 (3.40 - 10.50)	2350 (610 - 2820)	4.26	
15+15+15+15+18	1.50+1.50+1.50+1.50+1.80	7.80 (2.70 - 8.60)	2280 (550 - 2800)	3.42	1.90+1.90+1.90+1.90+2.38	10.00 (3.40 - 11.00)	2360 (610 - 2832)	4.24	
15+15+15+15+25	1.50+1.50+1.50+1.50+2.50	8.50 (2.90 - 9.90)	2330 (550 - 2800)	3.65	1.75+1.75+1.75+1.75+2.98	10.00 (3.40 - 11.50)	2400 (610 - 2880)	4.17	
15+15+15+15+35	1.34+1.34+1.34+1.34+3.13	8.50 (2.90 - 9.90)	2590 (550 - 3260)	3.28	1.63+1.63+1.63+1.63+3.50	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+15+42	1.25+1.25+1.25+1.25+3.50	8.50 (2.90 - 9.90)	2590 (550 - 3260)	3.28	1.52+1.52+1.52+1.52+3.94	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+15+50	1.16+1.16+1.16+1.16+3.86	8.50 (2.90 - 9.90)	2590 (550 - 3260)	3.28	1.38+1.38+1.38+1.38+4.48	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+15+60	1.06+1.06+1.06+1.06+4.25	8.50 (2.90 - 9.90)	2590 (550 - 3260)	3.28	1.29+1.29+1.29+1.29+4.84	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+18+18	1.50+1.50+1.50+1.80+1.80	8.10 <sup>(2)</sup>	2150 (550 - 2292)	3.77	1.82+1.82+1.82+2.27+2.27	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+18+25	1.45+1.45+1.45+1.74+2.41	8.50 (2.90 - 9.90)	2200 (550 - 2292)	3.86	1.68+1.68+1.68+2.10+2.86	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+18+35	1.30+1.30+1.30+1.56+3.04	8.50 (2.90 - 9.90)	2620 (550 - 3260)	3.24	1.56+1.56+1.56+1.95+3.36	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+18+42	1.21+1.21+1.21+1.46+3.40	8.50 (2.90 - 9.90)	2620 (550 - 3260)	3.24	1.46+1.46+1.46+1.82+3.80	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+18+50	1.13+1.13+1.13+1.35+3.76	8.50 (2.90 - 9.90)	2620 (550 - 3260)	3.24	1.33+1.33+1.33+1.67+4.33	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+18+60	1.04+1.04+1.04+1.24+4.15	8.50 (2.90 - 9.90)	2680 (550 - 3260)	3.17	1.25+1.25+1.25+1.56+4.69	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+25+25	1.34+1.34+1.34+2.24+2.24	8.50 (2.90 - 9.90)	2480 (550 - 3260)	3.43	1.56+1.56+1.56+2.66+2.66	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+25+35	1.21+1.21+1.21+2.02+2.83	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.46+1.46+1.46+2.48+3.14	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+25+42	1.14+1.14+1.14+1.90+3.19	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.37+1.37+1.37+2.33+3.56	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+25+50	1.06+1.06+1.06+1.77+3.54	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.26+1.26+1.26+2.14+4.09	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+25+60	0.98+0.98+0.98+1.63+3.92	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18+1.18+1.18+2.01+4.44	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+35+35	1.11+1.11+1.11+2.59+2.59	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.37+1.37+1.37+2.95+2.95	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+35+42	1.05+1.05+1.05+2.44+2.93	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.29+1.29+1.29+2.77+3.35	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+35+50	0.98+0.98+0.98+2.29+3.27	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.19+1.19+1.19+2.56+3.87	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+35+60	0.91+0.91+0.91+2.13+3.64	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12+1.12+1.12+2.42+4.21	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+42+42	0.99+0.99+0.99+2.77+2.77	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.22+1.22+1.22+3.17+3.17	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+42+50	0.93+0.93+0.93+2.61+3.10	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.13+1.13+1.13+2.94+3.67	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+42+60	0.87+0.87+0.87+2.43+3.47	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.07+1.07+1.07+2.78+4.01	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+50+50	0.88+0.88+0.88+2.93+2.93	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.05+1.05+1.05+3.42+3.42	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+15+50+60	0.82+0.82+0.82+2.74+3.29	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.00+1.00+1.00+3.25+3.75	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+18+18	1.50+1.50+1.80+1.80+1.80	8.40 (2.90 - 9.90)	2180 (550 - 2292)	3.85	1.74+1.74+2.17+2.17+2.17	10.00 (3.40 - 11.50)	2460 <sup>(2)</sup>	4.07	
15+15+18+18+25	1.40+1.40+1.68+1.68+2.34	8.50 (2.90 - 9.90)	2490 (550 - 3260)	3.41	1.61+1.61+2.02+2.02+2.74	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+18+35	1.26+1.26+1.51+1.51+2.95	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.50+1.50+1.88+1.88+3.23	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+18+42	1.18+1.18+1.42+1.42+3.31	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.41+1.41+1.76+1.76+3.66	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+18+50	1.10+1.10+1.32+1.32+3.66	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.29+1.29+1.61+1.61+4.19	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+18+60	1.01+1.01+1.21+1.21+4.05	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.21+1.21+1.52+1.52+4.55	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+25+25	1.30+1.30+1.56+2.17+2.17	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.50+1.50+1.88+2.56+2.56	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+25+35	1.18+1.18+1.42+1.97+2.75	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.41+1.41+1.76+2.39+3.03	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+25+42	1.11+1.11+1.33+1.85+3.10	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.32+1.32+1.66+2.25+3.44	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+25+50	1.04+1.04+1.24+1.73+3.46	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.22+1.22+1.52+2.07+3.96	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+25+60	0.96+0.96+1.15+1.60+3.83	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15+1.15+1.44+1.95+4.31	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+35+35	1.08+1.08+1.30+2.52+2.52	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.32+1.32+1.66+2.85+2.85	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+35+42	1.02+1.02+1.22+2.38+2.86	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.25+1.25+1.56+2.69+3.25	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+35+50	0.96+0.96+1.15+2.24+3.20	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.16+1.16+1.45+2.49+3.76	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+35+60	0.89+0.89+1.07+2.08+3.57	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.09+1.09+1.37+2.35+4.10	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+42+42	0.97+0.97+1.16+2.70+2.70	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18+1.18+1.48+3.08+3.08	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+42+50	0.91+0.91+1.09+2.55+3.04	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.10+1.10+1.37+2.86+3.57	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+42+60	0.85+0.85+1.02+2.38+3.40	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.04+1.04+1.30+2.71+3.91	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+18+50+50	0.86+0.86+1.03+2.87+2.87	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.03+1.03+1.28+3.33+3.33	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+25+25	1.21+1.21+2.02+2.02+2.02	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.41+1.41+2.39+2.39+2.39	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+25+35	1.11+1.11+1.85+1.85+2.59	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.32+1.32+2.25+2.25+2.85	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+25+42	1.05+1.05+1.74+1.74+2.93	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.25+1.25+2.13+2.13+3.25	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+25+50	0.98+0.98+1.63+1.63+3.27	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.16+1.16+1.97+1.97+3.76	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+25+60	0.91+0.91+1.52+1.52+3.64	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.09+1.09+1.86+1.86+4.10	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+35+35	1.02+1.02+1.70+2.38+2.38	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.25+1.25+2.13+2.69+2.69	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+35+42	0.97+0.97+1.61+2.25+2.70	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18+1.18+2.01+2.54+3.08	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+35+50	0.91+0.91+1.52+2.13+3.04	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.10+1.10+1.87+2.36+3.57	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+35+60	0.85+0.85+1.42+1.98+3.40	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.04+1.04+1.77+2.24+3.91	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+42+42	0.92+0.92+1.53+2.57+2.57	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12+1.12+1.91+2.92+2.92	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+42+50	0.87+0.87+1.45+2.43+2.89	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.05+1.05+1.78+2.72+3.40	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+25+42+60	0.82+0.82+1.37+2.74+2.74	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	0.98+0.98+1.67+3.19+3.19	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+35+35+35	0.94+0.94+2.20+2.20+2.20	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18+1.18+2.54+2.54+2.54	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+35+35+42	0.90+0.90+2.10+2.10+2.51	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12+1.12+2.42+2.42+2.92	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+15+35+35+50	0.85+0.85+1.98+1.98+2.83	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.05+1.05+2.25+2.25+3.40	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+18+18+18+18	1.47+1.76+1.76+1.76+1.76	8.50 (2.90 - 9.90)	2530 (550 - 3260)	3.36	1.67+2.08+2.08+2.08+2.08	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+18+18+18+25	1.36+1.63+1.63+1.63+2.26	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.55+1.94+1.94+1.94+2.64	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+18+18+18+35	1.23+1.47+1.47+1.47+2.86	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.45+1.81+1.81+1.81+3.12	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+18+18+18+42	1.15+1.38+1.38+1.38+3.22	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.36+1.70+1.70+1.70+3.54	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+18+18+18+50	1.07+1.29+1.29+1.29+3.57	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.25+1.56+1.56+1.56+4.06	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15+18+18+18+60	0.99+1.19+1.19+1.19+3.95	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18+1.47+1.47+1.47+4.41				



# Indoor unit combinations

## Standard multi-splits

Multi-splits indoor units

RAM-110NP5E		COOLING MODE				HEATING MODE			
		Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP
1 unit	15	1.50	1.50 (1.00 - 1.60)	420 (320 - 480)	3.57	2.00	2.00 (1.50 - 2.20)	620 (360 - 850)	3.23
	18	1.80	1.80 (1.70 - 2.00)	500 (320 - 610)	3.60	2.50	2.50 (2.00 - 3.00)	780 (360 - 920)	3.21
	25	2.50	2.50 (1.70 - 2.80)	700 (320 - 860)	3.57	3.40	3.40 (2.00 - 4.00)	1140 (360 - 1340)	2.98
	35	3.50	3.50 (1.70 - 3.90)	1040 (320 - 1270)	3.37	4.30	4.30 (2.00 - 5.20)	1420 (360 - 1720)	3.03
	42	4.20	4.20 (1.70 - 4.20)	1250 (320 - 1270)	3.36	5.20	4.30 (2.00 - 6.50)	1420 (360 - 1720)	3.03
	50	5.00	5.00 (1.70 - 5.50)	1540 (320 - 1860)	3.25	6.50	6.50 (2.00 - 7.30)	2300 (360 - 2580)	2.83
	60	6.00	6.00 (1.70 - 6.60)	1630 (320 - 1860)	3.68	7.50	7.50 (2.00 - 8.20)	2300 (360 - 2950)	3.26
2 units	15+15	1.50 + 1.50	3.00 (2.40 - 3.50)	850 (500 - 1020)	3.53	2.00+2.00	4.00 (2.70 - 4.70)	950 (500 - 1140)	4.21
	15+18	1.50+1.80	3.30 (2.40 - 3.80)	950 (500 - 1140)	3.47	2.00+2.50	4.50 (2.70 - 5.20)	1180 (500 - 1416)	3.81
	15+25	1.50+2.50	4.00 (2.40 - 4.50)	1150 (500 - 1500)	3.48	2.00+3.40	5.40 (2.70 - 6.10)	1320 (500 - 1584)	4.09
	15+35	1.50+3.50	5.00 (2.40 - 5.50)	1550 (500 - 1860)	3.23	2.00+4.30	6.30 (2.70 - 7.00)	1550 (500 - 1860)	4.06
	15+42	1.50+4.20	5.70 (2.40 - 6.20)	1700 (500 - 1860)	3.35	2.00+5.20	7.20 (2.70 - 7.90)	1850 (500 - 2560)	3.89
	15+50	1.50+5.00	6.50 (2.40 - 7.00)	2100 (500 - 2520)	3.10	2.00+6.50	8.50 (2.70 - 9.20)	2800 (500 - 3000)	3.04
	15+60	1.50+6.00	7.50 (2.40 - 8.00)	2100 (500 - 2520)	3.57	2.00+7.50	9.50 (2.70 - 10.20)	2800 (500 - 3000)	3.39
	18+18	1.80+1.80	3.60 (2.40 - 4.00)	1000 (500 - 1160)	3.60	2.50+2.50	5.00 (2.70 - 5.70)	1240 (500 - 1710)	4.03
	18+25	1.80+2.50	4.30 (2.40 - 4.70)	1200 (500 - 1590)	3.58	2.50+3.40	5.90 (2.70 - 6.60)	1530 (500 - 1990)	3.86
	18+35	1.80+3.50	5.30 (2.40 - 5.80)	1590 (500 - 1900)	3.33	2.50+4.30	6.80 (2.70 - 7.50)	1870 (500 - 2320)	3.64
	18+42	1.59+3.71	6.00 (2.40 - 5.80)	1760 (500 - 1900)	3.41	2.50+5.20	7.70 (2.70 - 8.40)	2200 (500 - 2880)	3.50
	18+50	1.80+5.00	6.80 (2.40 - 7.50)	2370 (500 - 2970)	2.87	2.50+6.50	9.00 (2.70 - 9.70)	2970 (500 - 3400)	3.03
	18+60	1.80+6.00	7.80 (2.40 - 8.20)	2370 (500 - 3120)	3.29	2.50+7.50	10.00 (2.70 - 10.70)	2970 (500 - 3400)	3.37
	25+25	2.50+2.50	5.00 (2.40 - 5.50)	1370 (500 - 1640)	3.65	3.40+3.40	6.80 (2.70 - 7.50)	1920 (500 - 2250)	3.54
	25+35	2.50+3.50	6.00 (2.40 - 6.60)	2000 (500 - 2400)	3.00	3.40+4.30	7.70 (2.70 - 8.40)	2280 (500 - 2590)	3.38
	25+42	2.50+4.20	6.70 (2.40 - 7.00)	2000 (500 - 2400)	3.35	3.40+5.20	8.60 (2.70 - 9.30)	2400 (500 - 3110)	3.58
	25+50	2.50+5.00	7.50 (2.40 - 8.00)	2580 (500 - 3270)	2.91	3.40+6.50	9.90 (2.70 - 10.60)	3220 (500 - 3400)	3.07
	25+60	2.50+6.00	8.50 (2.40 - 9.00)	2580 (500 - 3270)	3.29	3.40+7.50	10.90 (2.70 - 11.60)	3220 (500 - 3400)	3.39
	35+35	3.50+3.50	7.00 (2.40 - 7.80)	2490 (450 - 2990)	2.81	4.30+4.30	8.60 (2.70 - 9.30)	2460 (500 - 2860)	3.50
	35+42	3.50+4.20	7.70 (2.40 - 8.10)	2490 (500 - 2990)	3.09	4.30+5.20	9.50 (2.70 - 10.20)	2680 (500 - 3320)	3.54
	35+50	3.50+5.00	8.50 (2.40 - 8.80)	2700 (500 - 3270)	3.15	4.30+6.50	10.80 (2.70 - 11.50)	3290 (500 - 3600)	3.28
	35+60	3.50+6.00	9.50 (2.40 - 10.10)	2700 (500 - 3270)	3.52	4.30+7.50	11.80 (2.70 - 12.50)	3290 (500 - 3600)	3.59
	42+42	4.20+4.20	8.40 (2.40 - 8.80)	2700 (500 - 3270)	3.11	5.20+5.20	10.40 (2.70 - 11.10)	2460 (500 - 2860)	4.23
	42+50	4.20+5.00	9.20 (2.40 - 9.70)	2900 (500 - 3470)	3.17	5.20+6.50	11.70 (2.70 - 12.40)	3440 (500 - 3800)	3.40
	42+60	3.99+5.70	10.00 (2.40 - 10.59)	2900 (500 - 3470)	3.45	4.91+7.09	12.00 (2.70 - 12.70)	3440 (500 - 3800)	3.49
	50+50	5.00+5.00	10.00 (2.40 - 11.00)	3100 (500 - 3670)	3.23	6.00+6.00	12.00 (2.70 - 12.70)	3440 (500 - 3800)	3.49
	50+60	4.55+5.45	10.00 (2.40 - 11.00)	3200 (500 - 3780)	3.13	5.57+6.43	12.00 (2.70 - 12.70)	3440 (500 - 3800)	3.49
60+60	5.00+5.00	10.00 (2.40 - 11.00)	3300 (500 - 3870)	3.03	6.00+6.00	12.00 (2.70 - 12.70)	3440 (500 - 3800)	3.49	
3 units	15+15+15	1.50+1.50+1.50	4.50 (2.70 - 5.00)	1250 (510 - 1500)	3.60	2.00+2.00+2.00	6.00 (2.90 - 6.70)	1540 (520 - 1848)	3.90
	15+15+18	1.50+1.50+1.80	4.80 (2.70 - 5.30)	1350 (510 - 1620)	3.56	2.00+2.00+2.50	6.50 (2.90 - 7.20)	1800 (520 - 2160)	3.61
	15+15+25	1.50+1.50+2.50	5.50 (2.70 - 6.00)	1550 (510 - 1988)	3.55	2.00+2.00+3.40	7.40 (2.90 - 8.10)	2010 (520 - 2412)	3.68
	15+15+35	1.50+1.50+3.50	6.50 (2.70 - 7.00)	2100 (510 - 2676)	3.10	2.00+2.00+4.30	8.30 (2.90 - 9.00)	2420 (520 - 2904)	3.43
	15+15+42	1.50+1.50+4.20	7.20 (2.70 - 7.80)	2150 (510 - 2676)	3.35	2.00+2.00+5.20	9.20 (2.90 - 9.90)	2580 (520 - 2904)	3.57
	15+15+50	1.50+1.50+5.00	8.00 (2.70 - 8.50)	2400 (510 - 2876)	3.33	2.00+2.00+6.50	10.50 (2.90 - 11.20)	3030 (520 - 3448)	3.47
	15+15+60	1.50+1.50+6.00	9.00 (2.70 - 9.50)	2470 (510 - 2876)	3.64	2.00+2.00+7.50	11.50 (2.90 - 12.20)	3030 (520 - 3448)	3.80
	15+18+18	1.50+1.80+1.80	5.10 (2.70 - 5.60)	1450 (510 - 1620)	3.52	2.00+2.50+2.50	7.00 (2.90 - 7.70)	1880 (520 - 2280)	3.72
	15+18+25	1.50+1.80+2.50	5.80 (2.70 - 6.30)	1650 (510 - 1820)	3.52	2.00+2.50+3.40	7.90 (2.90 - 8.60)	2130 (520 - 2616)	3.71
	15+18+35	1.50+1.80+3.50	6.80 (2.70 - 7.30)	1850 (510 - 2844)	3.68	2.00+2.50+4.30	8.80 (2.90 - 9.50)	2580 (520 - 3030)	3.41
	15+18+42	1.50+1.80+4.20	7.50 (2.70 - 8.00)	2200 (510 - 2844)	3.41	2.00+2.50+5.20	9.70 (2.90 - 10.40)	2630 (520 - 3030)	3.69
	15+18+50	1.50+1.80+5.00	8.30 (2.70 - 9.10)	2400 (510 - 2844)	3.46	2.00+2.50+6.50	11.00 (2.90 - 11.70)	3150 (520 - 3690)	3.49
	15+18+60	1.50+1.80+6.00	9.30 (2.70 - 10.20)	2550 (510 - 2844)	3.65	2.00+2.50+7.50	12.00 (2.90 - 12.70)	3150 (520 - 3690)	3.81
	15+25+25	1.50+2.50+2.50	6.50 (2.70 - 7.00)	1800 (510 - 2520)	3.61	2.00+3.40+3.40	8.80 (2.90 - 9.50)	2350 (520 - 3030)	3.74
	15+25+35	1.50+2.50+3.50	7.50 (2.70 - 8.30)	2100 (510 - 3096)	3.57	2.00+3.40+4.30	9.70 (2.90 - 10.40)	2620 (520 - 3030)	3.70
	15+25+42	1.50+2.50+4.20	8.20 (2.70 - 8.70)	2200 (510 - 3360)	3.73	2.00+3.40+5.20	10.60 (2.90 - 11.30)	2750 (520 - 3030)	3.85
	15+25+50	1.50+2.50+5.00	9.00 (2.70 - 9.90)	2680 (510 - 3360)	3.36	2.00+3.40+6.50	11.90 (2.90 - 12.60)	3290 (520 - 3690)	3.62
	15+25+60	1.50+2.50+6.00	10.00 (2.70 - 10.60)	2780 (510 - 3360)	3.60	1.86+3.16+6.98	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	15+35+35	1.50+3.50+3.50	8.50 (2.70 - 9.40)	2560 (510 - 3360)	3.32	2.00+4.30+4.30	10.60 (2.90 - 11.30)	2990 (520 - 3360)	3.55
	15+35+42	1.50+3.50+4.20	9.20 (2.70 - 9.70)	2700 (510 - 3460)	3.41	2.00+4.30+5.20	11.50 (2.90 - 12.20)	2990 (520 - 3360)	3.85
	15+35+50	1.50+3.50+5.00	10.00 (2.70 - 10.70)	3000 (510 - 3460)	3.33	1.88+4.03+6.09	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	15+35+60	1.36+3.18+5.46	10.00 (2.70 - 11.00)	3100 (510 - 3460)	3.23	1.74+3.74+6.52	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	15+42+42	1.50+4.20+4.20	9.90 (2.70 - 10.50)	3000 (510 - 3460)	3.30	1.94+5.03+5.03	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	15+42+50	1.40+3.93+4.67	10.00 (2.70 - 10.56)	3210 (510 - 3460)	3.12	1.75+4.55+5.69	12.00 (2.90 - 12.70)	3390 (520 - 3690)	3.54
	15+42+60	1.28+3.59+5.13	10.00 (2.70 - 10.60)	3300 (510 - 3800)	3.03	1.63+4.24+6.12	12.00 (2.90 - 12.70)	3390 (520 - 3690)	3.54
	15+50+50	1.30+4.35+4.35	10.00 (2.70 - 10.70)	3500 (510 - 3800)	2.86	1.60+5.20+5.20	12.00 (2.90 - 12.70)	3490 (520 - 3890)	3.44
	15+50+60	1.20+4.00+4.80	10.00 (2.70 - 10.80)	3600 (510 - 3800)	2.78	1.50+4.88+5.63	12.00 (2.90 - 12.70)	3490 (520 - 3890)	3.44
	15+60+60	1.11+4.44+4.44	10.00 (2.70 - 10.96)	3680 (510 - 3800)	2.72	1.41+5.29+5.29	12.00 (2.90 - 12.70)	3490 (520 - 3890)	3.44
	18+18+18	1.80+1.80+1.80	5.40 (2.70 - 6.00)	1480 (510 - 1780)	3.65	2.50+2.50+2.50	7.50 (2.90 - 8.20)	2420 (520 - 2860)	3.10
	18+18+25	1.80+1.80+2.50	6.10 (2.70 - 6.80)	1780 (510 - 2150)	3.43	2.50+2.50+3.40	8.40 (2.90 - 9.10)	2420 (520 - 3060)	3.47
	18+18+35	1.80+1.80+3.50	7.10 (2.70 - 7.90)	2050 (510 - 2310)	3.46	2.50+2.50+4.30	9.30 (2.90 - 10.00)	2630 (520 - 3060)	3.54
	18+18+42	1.80+1.80+4.20	7.80 (2.70 - 8.20)	2250 (510 - 3460)	3.47	2.50+2.50+5.20	10.20 (2.90 - 10.90)	2670 (520 - 3060)	3.82
	18+18+50	1.80+1.80+5.00	8.60 (2.70 - 9.50)	2650 (510 - 3460)	3.25	2.50+2.50+6.50	11.50 (2.90 - 12.20)	3230 (520 - 3690)	3.56
	18+18+60	1.80+1.80+6.00	9.60 (2.70 - 10.60)	2650 (510 - 3460)	3.62	2.40+2.40+7.20	12.00 (2.90 - 12.70)	3230 (520 - 3690)	3.72
	18+25+25	1.80+2.50+2.50	6.80 (2.70 - 7.60)	1860 (510 - 2260)	3.66	2.50+3.40+3.40	9.30 (2.90 - 10.00)	2450 (520 - 2760)	3.80
	18+25+35	1.80+2.50+3.50	7.80 (2.70 - 8.70)	2250 (510 - 3270)	3.47	2.50+3.40+4.30	10.20 (2.90 - 10.90)	2530 (520 - 2880)	4.03
	18+25+42	1.80+2.50+4.20	8.50 (2.70 - 9.00)	2450 (510 - 3270)	3.47	2.50+3.40+5.20	11.10 (2.90 - 11.80)	2830 (520 - 3220)	3.92
	18+25+50	1.80+2.50+5.00	9.30 (2.70 - 10.30)	2750 (510 - 3270)	3.38	2.42+3.29+6.29	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65

RAM-110NP5E	COOLING MODE				HEATING MODE				
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	COP	
3 units	18+25+60	1.75+2.43+5.83	10.00 (2.70 - 10.80)	2850 (510 - 3320)	3.51	2.24+3.04+6.72	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	18+35+35	1.80+3.50+3.50	8.80 (2.70 - 9.80)	2600 (510 - 3460)	3.38	2.50+4.30+4.30	11.10 (2.90 - 11.80)	3050 (520 - 3330)	3.64
	18+35+42	1.80+3.50+4.20	9.50 (2.70 - 10.10)	2800 (510 - 3460)	3.39	2.50+4.30+5.20	12.00 (2.90 - 12.70)	3050 (520 - 3330)	3.93
	18+35+50	1.75+3.40+4.85	10.00 (2.70 - 10.80)	3080 (510 - 3580)	3.25	2.26+3.88+5.86	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	18+35+60	1.59+3.10+5.31	10.00 (2.70 - 10.50)	4000 (510 - 3580)	2.50	2.10+3.61+6.29	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	18+42+42	1.76+4.12+4.12	10.00 (2.70 - 10.50)	3000 (510 - 3580)	3.33	2.33+4.84+4.84	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	18+42+50	1.64+3.82+4.55	10.00 (2.70 - 10.64)	3290 (510 - 3580)	3.04	2.11+4.39+5.49	12.00 (2.90 - 12.70)	3290 (520 - 3690)	3.65
	18+								





# Indoor unit combinations

## Standard multi-splits

Multi-splits indoor units

RAM-110NP5E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
15 + 18 + 25 + 35	1.50 + 1.80 + 2.50 + 3.50	9.30 (2.90 - 10.30)	2550 (550 - 3120)	3.65	1.97 + 2.46 + 3.34 + 4.23	12.00 (3.00 - 12.70)	2990 (540 - 4000)	4.01	
15 + 18 + 25 + 42	1.50 + 1.80 + 2.50 + 4.20	10.00 (2.90 - 10.60)	2800 (550 - 3120)	3.57	1.83 + 2.29 + 3.11 + 4.76	12.00 (3.00 - 12.70)	3190 (540 - 4000)	3.76	
15 + 18 + 25 + 50	1.39 + 1.67 + 2.31 + 4.63	10.00 (2.90 - 10.56)	2800 (550 - 3120)	3.57	1.67 + 2.08 + 2.83 + 5.42	12.00 (3.00 - 12.70)	3490 (540 - 4000)	3.44	
15 + 18 + 25 + 60	1.27 + 1.53 + 2.12 + 5.08	10.00 (2.90 - 10.80)	3150 (550 - 3700)	3.17	1.56 + 1.95 + 2.65 + 5.84	12.00 (3.00 - 12.70)	3490 (540 - 4500)	3.44	
15 + 18 + 35 + 35	1.46 + 1.75 + 3.40 + 3.40	10.00 (2.90 - 10.60)	3150 (550 - 3700)	3.17	1.83 + 2.29 + 3.94 + 3.94	12.00 (3.00 - 12.70)	3190 (540 - 4000)	3.76	
15 + 18 + 35 + 42	1.36 + 1.64 + 3.18 + 3.82	10.00 (2.90 - 10.64)	3150 (550 - 3700)	3.17	1.71 + 2.14 + 3.69 + 4.46	12.00 (3.00 - 12.70)	3290 (540 - 4000)	3.65	
15 + 18 + 35 + 50	1.27 + 1.53 + 2.97 + 4.24	10.00 (2.90 - 10.90)	3400 (550 - 4000)	2.94	1.57 + 1.96 + 3.37 + 5.10	12.00 (3.00 - 12.70)	3560 (540 - 4500)	3.37	
15 + 18 + 35 + 60	1.17 + 1.41 + 2.73 + 4.69	10.00 (2.90 - 11.00)	3400 (550 - 4000)	2.94	1.47 + 1.84 + 3.17 + 5.52	12.00 (3.00 - 12.70)	3560 (540 - 4500)	3.37	
15 + 18 + 42 + 42	1.28 + 1.54 + 3.59 + 3.59	10.00 (2.90 - 10.90)	3400 (550 - 4000)	2.94	1.61 + 2.01 + 4.19 + 4.19	12.00 (3.00 - 12.70)	3490 (540 - 4500)	3.44	
15 + 18 + 42 + 50	1.20 + 1.44 + 3.36 + 4.00	10.00 (2.90 - 11.30)	3500 (550 - 4000)	2.86	1.48 + 1.85 + 3.85 + 4.81	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 18 + 42 + 60	1.11 + 1.33 + 3.11 + 4.44	10.00 (2.90 - 11.50)	3500 (550 - 4000)	2.86	1.40 + 1.74 + 3.63 + 5.23	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 18 + 50 + 50	1.13 + 1.35 + 3.76 + 3.76	10.00 (2.90 - 11.30)	3650 (550 - 4000)	2.74	1.37 + 1.71 + 4.46 + 4.46	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 18 + 50 + 60	1.05 + 1.26 + 3.50 + 4.20	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.30 + 1.62 + 4.22 + 4.86	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 18 + 60 + 60	0.98 + 1.18 + 3.92 + 3.92	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.23 + 1.54 + 4.62 + 4.62	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 25 + 25 + 25	1.50 + 2.50 + 2.50 + 2.50	9.00 (2.90 - 10.00)	2600 (550 - 3132)	3.46	1.97 + 3.34 + 3.34 + 3.34	12.00 (3.00 - 12.70)	2990 (540 - 4000)	4.01	
15 + 25 + 25 + 35	1.50 + 2.50 + 2.50 + 3.50	10.00 (2.90 - 11.10)	2800 (550 - 3500)	3.57	1.83 + 3.11 + 3.11 + 3.94	12.00 (3.00 - 12.70)	3190 (540 - 4000)	3.76	
15 + 25 + 25 + 42	1.40 + 2.34 + 2.34 + 3.93	10.00 (2.90 - 10.65)	3000 (550 - 3500)	3.33	1.71 + 2.91 + 2.91 + 4.46	12.00 (3.00 - 12.70)	3390 (540 - 4500)	3.54	
15 + 25 + 25 + 50	1.30 + 2.17 + 2.17 + 4.35	10.00 (2.90 - 10.80)	3160 (550 - 3500)	3.16	1.57 + 2.67 + 2.67 + 5.10	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 25 + 25 + 60	1.20 + 2.00 + 2.00 + 4.8	10.00 (2.90 - 10.90)	3160 (550 - 3500)	3.16	1.47 + 2.50 + 2.50 + 5.52	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 25 + 35 + 35	1.36 + 2.27 + 3.18 + 3.18	10.00 (2.90 - 10.50)	3000 (550 - 3500)	3.33	1.71 + 2.91 + 3.69 + 3.69	12.00 (3.00 - 12.70)	3090 (540 - 4000)	3.88	
15 + 25 + 35 + 42	1.28 + 2.14 + 2.99 + 3.59	10.00 (2.90 - 10.68)	3210 (550 - 3700)	3.12	1.61 + 2.74 + 3.46 + 4.19	12.00 (3.00 - 12.70)	3190 (540 - 4000)	3.76	
15 + 25 + 35 + 50	1.20 + 2.00 + 2.80 + 4.00	10.00 (2.90 - 10.80)	3400 (550 - 3700)	2.94	1.48 + 2.52 + 3.19 + 4.81	12.00 (3.00 - 12.70)	3650 (540 - 4500)	3.29	
15 + 25 + 35 + 60	1.11 + 1.85 + 2.59 + 4.44	10.00 (2.90 - 10.90)	3400 (550 - 3700)	2.94	1.40 + 2.37 + 3.00 + 5.23	12.00 (3.00 - 12.70)	3650 (540 - 4500)	3.29	
15 + 25 + 42 + 42	1.21 + 2.02 + 3.39 + 3.39	10.00 (2.90 - 10.63)	3200 (550 - 3700)	3.13	1.52 + 2.58 + 3.95 + 3.95	12.00 (3.00 - 12.70)	3590 (540 - 4500)	3.34	
15 + 25 + 42 + 50	1.14 + 1.89 + 3.18 + 3.79	10.00 (2.90 - 10.90)	3610 (550 - 4500)	2.77	1.40 + 2.39 + 3.65 + 4.56	12.00 (3.00 - 12.70)	3650 (540 - 4500)	3.29	
15 + 25 + 42 + 60	1.06 + 1.76 + 2.96 + 4.23	10.00 (2.90 - 11.20)	3720 (550 - 4500)	2.69	1.33 + 2.25 + 3.45 + 4.97	12.00 (3.00 - 12.70)	3650 (540 - 4500)	3.29	
15 + 25 + 50 + 50	1.07 + 1.79 + 3.57 + 3.57	10.00 (2.90 - 11.50)	3800 (550 - 4500)	2.63	1.30 + 2.22 + 4.24 + 4.24	12.00 (3.00 - 12.70)	3650 (540 - 4500)	3.29	
15 + 25 + 50 + 60	1.00 + 1.67 + 3.33 + 4.00	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.24 + 2.10 + 4.02 + 4.64	12.00 (3.00 - 12.70)	3650 (540 - 4500)	3.29	
15 + 35 + 35 + 35	1.25 + 2.92 + 2.92 + 2.92	10.00 (2.90 - 12.50)	3350 (550 - 3700)	2.99	1.61 + 3.46 + 3.46 + 3.46	12.00 (3.00 - 12.70)	3190 (540 - 4000)	3.76	
15 + 35 + 35 + 42	1.18 + 2.76 + 2.76 + 3.31	10.00 (2.90 - 12.50)	3350 (550 - 3700)	2.99	1.52 + 3.27 + 3.27 + 3.95	12.00 (3.00 - 12.70)	3290 (540 - 4000)	3.65	
15 + 35 + 35 + 50	1.11 + 2.59 + 2.59 + 3.70	10.00 (2.90 - 12.50)	3800 (550 - 4500)	2.63	1.40 + 3.02 + 3.02 + 4.56	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
15 + 35 + 35 + 60	1.03 + 2.41 + 2.41 + 4.14	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.33 + 2.85 + 2.85 + 4.97	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
15 + 35 + 42 + 42	1.12 + 2.61 + 3.13 + 3.13	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.44 + 3.09 + 3.74 + 3.74	12.00 (3.00 - 12.70)	3490 (540 - 4500)	3.44	
15 + 35 + 42 + 50	1.06 + 2.46 + 2.96 + 3.52	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.33 + 2.87 + 3.47 + 4.33	12.00 (3.00 - 12.70)	3790 (540 - 4500)	3.17	
15 + 35 + 42 + 60	0.99 + 2.3 + 2.76 + 3.95	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.26 + 2.72 + 3.28 + 4.74	12.00 (3.00 - 12.70)	3790 (540 - 4500)	3.17	
15 + 35 + 50 + 50	1.00 + 2.33 + 3.33 + 3.33	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.24 + 2.67 + 4.04 + 4.04	12.00 (3.00 - 12.70)	3890 (540 - 4500)	3.08	
15 + 35 + 50 + 60	0.94 + 2.19 + 3.13 + 3.75	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.18 + 2.54 + 3.84 + 4.43	12.00 (3.00 - 12.70)	3890 (540 - 4500)	3.08	
15 + 42 + 42 + 42	1.06 + 2.98 + 2.98 + 2.98	10.00 (2.90 - 12.50)	3800 (550 - 4500)	2.63	1.36 + 3.55 + 3.55 + 3.55	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
15 + 42 + 42 + 50	1.01 + 2.82 + 2.82 + 3.36	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.27 + 3.30 + 3.30 + 4.13	12.00 (3.00 - 12.70)	3890 (540 - 4500)	3.08	
15 + 42 + 42 + 60	0.94 + 2.64 + 2.64 + 3.77	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.21 + 3.14 + 3.14 + 4.52	12.00 (3.00 - 12.70)	3890 (540 - 4500)	3.08	
15 + 42 + 50 + 50	0.96 + 2.68 + 3.18 + 3.18	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.19 + 3.09 + 3.86 + 3.86	12.00 (3.00 - 12.70)	3990 (540 - 4000)	3.01	
18 + 18 + 18 + 18	1.80 + 1.80 + 1.80 + 1.80	7.20 (2.90 - 8.00)	2330 (550 - 3120)	3.09	2.50 + 2.50 + 2.50 + 2.50	10.00 (3.00 - 10.70)	2850 (540 - 4000)	3.51	
18 + 18 + 18 + 25	1.80 + 1.80 + 1.80 + 2.50	7.90 (2.90 - 8.80)	2380 (550 - 3120)	3.32	2.50 + 2.50 + 2.50 + 3.40	10.90 (3.00 - 11.60)	2950 (540 - 4000)	3.69	
18 + 18 + 18 + 35	1.80 + 1.80 + 1.80 + 3.50	8.90 (2.90 - 9.90)	2630 (550 - 3120)	3.38	2.50 + 2.50 + 2.50 + 4.30	11.80 (3.00 - 12.50)	2950 (540 - 4000)	4.00	
18 + 18 + 18 + 42	1.80 + 1.80 + 1.80 + 4.20	9.60 (2.90 - 10.20)	2640 (550 - 3460)	3.64	2.36 + 2.36 + 2.36 + 4.91	12.00 (3.00 - 12.70)	3050 (540 - 4000)	3.93	
18 + 18 + 18 + 50	1.73 + 1.73 + 1.73 + 4.81	10.00 (2.90 - 11.06)	2900 (550 - 3460)	3.45	2.14 + 2.14 + 2.14 + 5.57	12.00 (3.00 - 12.70)	3430 (540 - 4000)	3.50	
18 + 18 + 18 + 60	1.58 + 1.58 + 1.58 + 5.26	10.00 (2.90 - 12.50)	3000 (550 - 3460)	3.33	2.00 + 2.00 + 2.00 + 6.00	12.00 (3.00 - 12.70)	3430 (540 - 4000)	3.50	
18 + 18 + 25 + 25	1.80 + 1.80 + 2.50 + 2.50	8.60 (2.90 - 9.60)	2690 (550 - 3040)	3.20	2.50 + 2.50 + 3.40 + 3.40	12.00 (3.00 - 12.70)	2950 (540 - 4000)	4.00	
18 + 18 + 25 + 35	1.80 + 1.80 + 2.50 + 3.50	9.60 (2.90 - 10.10)	2690 (550 - 3460)	3.57	2.36 + 2.36 + 3.21 + 4.06	12.00 (3.00 - 12.70)	3050 (540 - 4000)	3.93	
18 + 18 + 25 + 42	1.75 + 1.75 + 2.43 + 4.08	10.00 (2.90 - 10.68)	2850 (550 - 3460)	3.51	2.21 + 2.21 + 3.03 + 4.59	12.00 (3.00 - 12.70)	3150 (540 - 4000)	3.81	
18 + 18 + 25 + 50	1.62 + 1.62 + 2.25 + 4.5	10.00 (2.90 - 11.15)	3000 (550 - 3460)	3.33	2.01 + 2.01 + 2.74 + 5.23	12.00 (3.00 - 12.70)	3490 (540 - 4000)	3.44	
18 + 18 + 25 + 60	1.49 + 1.49 + 2.07 + 4.96	10.00 (2.90 - 11.60)	3000 (550 - 3460)	3.33	1.89 + 1.89 + 2.57 + 5.66	12.00 (3.00 - 12.70)	3490 (540 - 4000)	3.44	
18 + 18 + 35 + 35	1.70 + 1.70 + 3.30 + 3.30	10.00 (2.90 - 10.60)	2900 (550 - 3460)	3.45	2.21 + 2.21 + 3.79 + 3.79	12.00 (3.00 - 12.70)	3130 (540 - 4000)	3.83	
18 + 18 + 35 + 42	1.59 + 1.59 + 3.10 + 3.72	10.00 (2.90 - 10.99)	3000 (550 - 3460)	3.33	2.07 + 2.07 + 3.56 + 4.30	12.00 (3.00 - 12.70)	3180 (540 - 4000)	3.77	
18 + 18 + 35 + 50	1.49 + 1.49 + 2.89 + 4.13	10.00 (2.90 - 11.50)	3200 (550 - 3700)	3.13	1.90 + 1.90 + 3.27 + 4.94	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
18 + 18 + 35 + 60	1.37 + 1.37 + 2.67 + 4.58	10.00 (2.90 - 12.00)	3200 (550 - 3700)	3.13	1.79 + 1.79 + 3.07 + 5.36	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
18 + 18 + 42 + 42	1.50 + 1.50 + 3.50 + 3.50	10.00 (2.90 - 10.33)	3200 (550 - 3700)	3.13	1.95 + 1.95 + 4.05 + 4.05	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
18 + 18 + 42 + 50	1.41 + 1.41 + 3.28 + 3.91	10.00 (2.90 - 10.80)	3500 (550 - 4000)	2.86	1.80 + 1.80 + 3.74 + 4.67	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
18 + 18 + 42 + 60	1.30 + 1.30 + 3.04 + 4.35	10.00 (2.90 - 11.30)	3500 (550 - 4000)	2.86	1.69 + 1.69 + 3.53 + 5.08	12.00 (3.00 - 12.70)	3690 (540 - 4500)	3.25	
18 + 18 + 50 + 50	1.32 + 1.32 + 3.68 + 3.68	10.00 (2.90 - 11.20)	3680 (550 - 4000)	2.72	1.67 + 1.67 + 4.33 + 4.33	12.00 (3.00 - 12.70)	3790 (540 - 4500)	3.17	
18 + 18 + 50 + 60	1.23 + 1.23 + 3.42 + 4.11	10.00 (2.90 - 11.60)	3680 (550 - 4000)	2.72	1.58 + 1.58 + 4.11 + 4.74	12.00 (3.00 - 12.70)	3790 (540 - 4500)	3.17	
18 + 18 + 60 + 60	1.23 + 1.23 + 4.11 + 4.11	10.00 (2.90 - 12.00)	3780 (550 - 4000)	2.65	1.50 + 1.50 + 4.50 + 4.50	12.00 (3.00 - 12.70)	3790 (540 - 4500)	3.17	
18 + 25 + 25 + 25	1.80 + 2.50 + 2.50 + 2.50	9.30 (2.90 - 10.40)	2600 (550 - 3460)	3.58	2.36 + 3.21 + 3.21 + 3.21	12.00 (3.00 - 12.70)	3050 (540 - 4000)	3.93	
18 + 25 + 25 + 35	1.75 + 2.43 + 2.43 + 3.40	10.00 (2.90 - 10.99)	2740 (550 - 3460)	3.65	2.21 + 3.00 + 3.00 + 3.79	12.00 (3.00 - 12.70)	3150 (540 - 4000)	3.81	
18 + 25 + 25 + 42	1.64 + 2.27 + 2.27 + 3.82	10.00 (2.90 - 11.30)	2900 (550 - 3460)	3.45	2.07 + 2.81 + 2.81 + 4.30	12.00 (3.00 - 12.70)	3290 (540 - 4000)	3.65	
18 + 25 + 25 + 50	1.53 + 2.12 + 2.12 + 4.24	10.00 (2.90 - 11.80)	3000 (550 - 3460)	3.33	1.90 + 2.58 + 2.58 + 4.94	12.00 (3.00 - 12.70)	3530 (540 - 4000)	3.40	
18 + 25 + 25 + 60	1.41 + 1.95 + 1.95 + 4.69	10.00 (2.90 - 12.30)	3100 (550 - 3460)	3.23	1.79 + 2.43 + 2.43 + 5.36	12.00 (3.00 - 12.70)	3530 (540 - 4000)	3.40	
18 + 25 + 35 + 35	1.59 + 2.21 + 3.10 + 3.10	10.							



# Indoor unit combinations

## Standard multi-splits

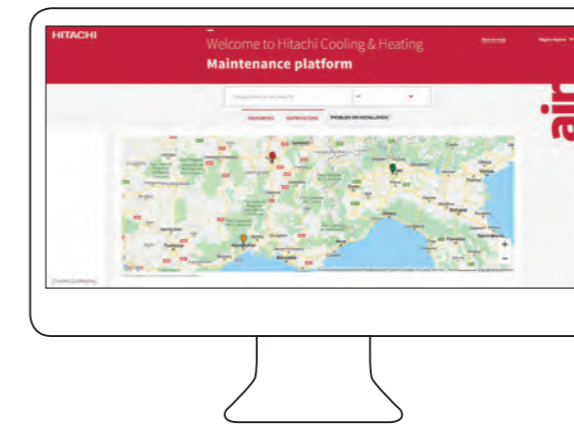
Multi-splits indoor units

RAM-110NP5E	COOLING MODE				HEATING MODE				COP
	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)	EER	Unit capacity (kW)	Total capacity (kW)	Total abs. capacity (W)		
	RAM-110NP5E								
15+15+18+25+35	1.39+1.39+1.67+2.31+3.24	10.00 (2.90-10.80)	2690 (550-3460)	3.72	1.69+1.69+2.11+2.87+3.63	12.00 (3.40-12.70)	3030 (610-4000)	3.96	
15+15+18+25+42	1.30+1.30+1.57+2.17+3.65	10.00 (2.90-11.10)	3000 (550-3660)	3.33	1.59+1.59+1.99+2.70+4.13	12.00 (3.40-12.70)	3030 (610-4000)	3.96	
15+15+18+25+50	1.22+1.22+1.46+2.03+4.07	10.00 (2.90-11.60)	3380 (550-4000)	2.96	1.46+1.46+1.83+2.49+4.76	12.00 (3.40-12.70)	3650 (610-4000)	3.29	
15+15+18+25+60	1.13+1.13+1.35+1.88+4.51	10.00 (2.90-12.10)	3380 (550-4000)	2.96	1.38+1.38+1.72+2.34+5.17	12.00 (3.40-12.70)	3650 (610-4000)	3.29	
15+15+18+35+35	1.27+1.27+1.53+2.97+2.97	10.00 (2.90-12.50)	3380 (550-4000)	2.96	1.59+1.59+1.99+3.42+3.42	12.00 (3.40-12.70)	3190 (610-4000)	3.76	
15+15+18+35+42	1.20+1.20+1.44+2.80+3.36	10.00 (2.90-12.50)	3380 (550-4000)	2.96	1.50+1.50+1.88+3.23+3.90	12.00 (3.40-12.70)	3290 (610-4000)	3.65	
15+15+18+35+50	1.13+1.13+1.35+2.63+3.76	10.00 (2.90-12.50)	3820 (550-4500)	2.62	1.39+1.39+1.73+2.98+4.51	12.00 (3.40-12.70)	3780 (610-4500)	3.17	
15+15+18+35+60	1.05+1.05+1.26+2.45+4.20	10.00 (2.90-12.50)	3820 (550-4500)	2.62	1.31+1.31+1.64+2.82+4.92	12.00 (3.40-12.70)	3780 (610-4500)	3.17	
15+15+18+42+42	1.14+1.14+1.36+3.18+3.18	10.00 (2.90-11.60)	3820 (550-4500)	2.62	1.42+1.42+1.78+3.69+3.69	12.00 (3.40-12.70)	3780 (610-4500)	3.17	
15+15+18+42+50	1.07+1.07+1.29+3.00+3.57	10.00 (2.90-12.10)	4000 (550-4500)	2.50	1.32+1.32+1.65+3.43+4.29	12.00 (3.40-12.70)	3780 (610-4500)	3.17	
15+15+18+42+60	1.00+1.00+1.20+2.80+4.00	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.25+1.25+1.56+3.25+4.69	12.00 (3.40-12.70)	3780 (610-4500)	3.17	
15+15+18+50+50	1.01+1.01+1.22+3.38+3.38	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.23+1.23+1.54+4.00+4.00	12.00 (3.40-12.70)	3890 (610-4500)	3.08	
15+15+18+50+60	0.95+0.95+1.14+3.16+3.80	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.17+1.17+1.46+3.80+4.39	12.00 (3.40-12.70)	3890 (610-4500)	3.08	
15+15+25+25+25	1.43+1.43+2.38+2.38+2.38	10.00 (2.90-11.05)	2690 (550-3460)	3.72	1.69+1.69+2.87+2.87+2.87	12.00 (3.40-12.70)	2890 (610-4000)	4.15	
15+15+25+25+35	1.30+1.30+2.17+2.17+3.04	10.00 (2.90-11.50)	3000 (550-3460)	3.33	1.59+1.59+2.70+2.70+3.42	12.00 (3.40-12.70)	3130 (610-4000)	3.83	
15+15+25+25+42	1.23+1.23+2.05+2.05+3.44	10.00 (2.90-11.80)	3280 (550-3800)	3.05	1.50+1.50+2.55+2.55+3.90	12.00 (3.40-12.70)	3130 (610-4000)	3.83	
15+15+25+25+50	1.15+1.15+1.92+1.92+3.85	10.00 (2.90-12.10)	3480 (550-4000)	2.87	1.39+1.39+2.36+2.36+4.51	12.00 (3.40-12.70)	3780 (610-4000)	3.17	
15+15+25+25+60	1.07+1.07+1.79+1.79+4.29	10.00 (2.90-12.50)	3480 (550-4000)	2.87	1.31+1.31+2.23+2.23+4.92	12.00 (3.40-12.70)	3780 (610-4000)	3.17	
15+15+25+35+35	1.20+1.20+2.00+2.80+2.80	10.00 (2.90-12.00)	3280 (550-3800)	3.05	1.50+1.50+2.55+3.23+3.23	12.00 (3.40-12.70)	3250 (610-4000)	3.69	
15+15+25+35+42	1.14+1.14+1.89+2.63+3.18	10.00 (2.90-12.50)	3480 (550-4000)	2.87	1.42+1.42+2.41+3.05+3.69	12.00 (3.40-12.70)	3350 (610-4000)	3.58	
15+15+25+35+50	1.07+1.07+1.79+2.50+3.57	10.00 (2.90-12.50)	3620 (550-4000)	2.76	1.32+1.32+2.24+2.84+4.29	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+15+25+35+60	1.00+1.00+1.67+2.33+4.00	10.00 (2.90-12.50)	3620 (550-4000)	2.76	1.25+1.25+2.13+2.69+4.69	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+15+25+42+42	1.08+1.08+1.80+3.02+3.02	10.00 (2.90-12.50)	3620 (550-4000)	2.76	1.35+1.35+2.29+3.51+3.51	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+15+25+42+50	1.02+1.02+1.70+2.86+3.40	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.26+1.26+2.14+3.27+4.08	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+15+25+42+60	0.97+0.97+1.61+2.33+3.23	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.18+1.18+2.00+3.82+3.82	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+15+25+50+60	0.91+0.91+1.52+3.03+3.64	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.12+1.12+1.91+3.64+4.21	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+15+35+35+35	1.11+1.11+2.59+2.59+2.59	10.00 (2.90-12.50)	3620 (550-4000)	2.76	1.42+1.42+3.05+3.05+3.05	12.00 (3.40-12.70)	3360 (610-4000)	3.57	
15+15+35+35+42	1.06+1.06+2.46+2.46+2.96	10.00 (2.90-12.50)	3620 (550-4000)	2.76	1.35+1.35+2.90+2.90+3.51	12.00 (3.40-12.70)	3360 (610-4000)	3.57	
15+15+35+35+50	1.00+1.00+2.33+2.33+3.33	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.26+1.26+2.70+2.70+4.08	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+15+35+35+60	0.94+0.94+2.19+2.19+3.75	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.19+1.19+2.57+2.57+4.48	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+18+18+18	1.50+1.80+1.80+1.80+1.80	8.70 (2.90-9.60)	2530 (550-3460)	3.44	2.00+2.50+2.50+2.50+2.50	12.00 (3.40-12.70)	2630 (610-4000)	4.56	
15+18+18+18+25	1.50+1.80+1.80+1.80+2.50	9.40 (2.90-10.10)	2690 (550-3460)	3.49	1.86+2.33+2.33+2.33+3.16	12.00 (3.40-12.70)	2730 (610-4000)	4.40	
15+18+18+18+35	1.44+1.73+1.73+1.73+3.37	10.00 (2.90-10.60)	2690 (550-3460)	3.72	1.74+2.17+2.17+2.17+3.74	12.00 (3.40-12.70)	2830 (610-4000)	4.24	
15+18+18+18+42	1.35+1.62+1.62+1.62+3.78	10.00 (2.90-10.90)	3000 (550-3460)	3.33	1.63+2.04+2.04+2.04+4.24	12.00 (3.40-12.70)	3030 (610-4000)	3.96	
15+18+18+18+50	1.26+1.51+1.51+1.51+4.20	10.00 (2.90-11.40)	3260 (550-3460)	3.07	1.50+1.88+1.88+1.88+4.88	12.00 (3.40-12.70)	3690 (610-4000)	3.25	
15+18+18+18+60	1.16+1.40+1.40+1.40+4.65	10.00 (2.90-12.00)	3260 (550-3460)	3.07	1.41+1.76+1.76+1.76+5.29	12.00 (3.40-12.70)	3690 (610-4000)	3.25	
15+18+18+25+25	1.49+1.78+1.78+2.48+2.48	10.00 (2.90-10.60)	2690 (550-3460)	3.72	1.74+2.17+2.17+2.96+2.96	12.00 (3.40-12.70)	2890 (610-4000)	4.15	
15+18+18+25+35	1.35+1.62+1.62+2.25+3.15	10.00 (2.90-11.08)	2690 (550-3460)	3.72	1.63+2.04+2.04+2.78+3.51	12.00 (3.40-12.70)	2980 (610-4000)	4.03	
15+18+18+25+42	1.27+1.53+1.53+2.12+3.56	10.00 (2.90-11.40)	3270 (550-3800)	3.07	1.54+1.92+1.92+2.62+4.00	12.00 (3.40-12.70)	3130 (610-4000)	3.83	
15+18+18+25+50	1.19+1.43+1.43+1.98+3.97	10.00 (2.90-11.70)	3260 (550-3800)	3.07	1.42+1.78+1.78+2.41+4.62	12.00 (3.40-12.70)	3790 (610-4500)	3.17	
15+18+18+25+60	1.10+1.32+1.32+1.84+4.41	10.00 (2.90-12.20)	3550 (550-4000)	2.82	1.34+1.68+1.68+2.28+5.03	12.00 (3.40-12.70)	3790 (610-4500)	3.17	
15+18+18+35+35	1.24+1.49+1.49+2.89+2.89	10.00 (2.90-12.50)	3260 (550-4000)	3.07	1.54+1.92+1.92+3.31+3.31	12.00 (3.40-12.70)	3030 (610-4000)	3.96	
15+18+18+35+42	1.17+1.41+1.41+2.73+3.28	10.00 (2.90-12.50)	3550 (550-4000)	2.82	1.45+1.82+1.82+3.13+3.78	12.00 (3.40-12.70)	3250 (610-4000)	3.69	
15+18+18+35+50	1.10+1.32+1.32+2.57+3.68	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.35+1.69+1.69+2.9+4.38	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+18+35+60	1.03+1.23+1.23+2.40+4.11	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.28+1.60+1.60+2.74+4.79	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+18+42+42	1.11+1.33+1.33+3.11+3.11	10.00 (2.90-12.50)	3680 (550-4500)	2.72	1.38+1.72+1.72+3.59+3.59	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+18+42+50	1.05+1.26+1.26+2.94+3.50	10.00 (2.90-12.50)	3680 (550-4500)	2.72	1.28+1.60+1.60+3.34+4.17	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+18+42+60	0.98+1.18+1.18+2.75+3.92	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.22+1.52+1.52+3.17+4.57	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+18+50+50	0.99+1.19+1.19+3.31+3.31	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.20+1.50+1.50+3.90+3.90	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+18+18+50+60	0.93+1.12+1.12+3.11+3.73	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.14+1.43+1.43+3.71+4.29	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+18+25+25+25	1.39+1.67+2.31+2.31+2.31	10.00 (2.90-11.11)	3000 (550-3460)	3.33	1.63+2.04+2.78+2.78+2.78	12.00 (3.40-12.70)	2980 (610-4000)	4.03	
15+18+25+25+35	1.27+1.53+2.12+2.12+2.97	10.00 (2.90-12.50)	3000 (550-3460)	3.33	1.54+1.92+2.62+2.62+3.31	12.00 (3.40-12.70)	3030 (610-4000)	3.96	
15+18+25+25+42	1.20+1.44+2.00+2.00+3.36	10.00 (2.90-12.50)	3260 (550-3800)	3.07	1.45+1.82+2.47+2.47+3.78	12.00 (3.40-12.70)	3250 (610-4000)	3.69	
15+18+25+25+50	1.13+1.35+1.88+1.88+3.76	10.00 (2.90-12.50)	3680 (550-4000)	2.72	1.35+1.69+2.29+2.29+4.38	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+25+25+60	1.05+1.26+1.75+1.75+4.20	10.00 (2.90-12.50)	3680 (550-4000)	2.72	1.28+1.60+2.17+2.17+4.79	12.00 (3.40-12.70)	3890 (610-5000)	3.08	
15+18+25+35+35	1.17+1.41+1.95+2.73+2.73	10.00 (2.90-12.50)	3680 (550-4000)	2.72	1.45+1.82+2.47+3.13+3.13	12.00 (3.40-12.70)	3130 (610-4000)	3.83	
15+18+25+35+42	1.11+1.33+1.85+2.59+3.11	10.00 (2.90-12.50)	3680 (550-4000)	2.72	1.38+1.72+2.34+2.97+3.59	12.00 (3.40-12.70)	3290 (610-4000)	3.65	
15+18+25+35+50	1.05+1.26+1.75+2.45+3.50	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.28+1.60+2.18+2.76+4.17	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+18+25+35+60	0.98+1.18+1.63+2.29+3.92	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.22+1.52+2.07+2.62+4.57	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+18+25+42+42	1.06+1.27+1.76+2.96+2.96	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.31+1.64+2.23+3.41+3.41	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+18+25+42+50	1.00+1.20+1.67+2.80+3.33	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.22+1.53+2.08+3.18+3.98	12.00 (3.40-12.70)	4200 (610-5000)	2.86	
15+18+25+42+60	0.94+1.13+1.56+2.63+3.75	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.17+1.46+1.98+3.03+4.37	12.00 (3.40-12.70)	4200 (610-5000)	2.86	
15+18+35+35+35	1.09+1.30+2.54+2.54+2.54	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.38+1.72+2.97+2.97+2.97	12.00 (3.40-12.70)	3280 (610-4000)	3.66	
15+18+35+35+42	1.03+1.24+2.41+2.41+2.90	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.31+1.64+2.82+2.82+3.41	12.00 (3.40-12.70)	3390 (610-4000)	3.54	
15+18+35+35+50	0.98+1.18+2.29+2.29+3.27	10.00 (2.90-12.50)	4000 (550-4500)	2.50	1.22+1.53+2.63+2.63+3.98	12.00 (3.40-12.70)	4000 (610-5000)	3.00	
15+25+25+25+25	1.30+2.17+2.17+2.17+2.17	10.00 (2.90-12.50)	3000 (550-3460)	3.33	1.54+2.62+2.62+2.62+2.62	12.00 (3.40-12.70)	3090 (610-4000)	3.88	
15+25+25+25+35	1.20+2.00+2.00+2.00+2.80	10.00 (2.90-12.50)	3000 (550-3460)	3.33	1.45+2.47+2.47+2.47+3.13	12.00 (3.40-12.70)	3190 (610-4000)	3.76	
15+25+25+25+4									

Hitachi heating and air-conditioning systems feature a range of control solutions adapted to all applications. Many options are available in both residential and small commercial: wired or wireless controllers, control from a smartphone, remote maintenance, fault report kits and dry contacts.



# Air to Air Heat Pumps : Controls and Accessories



\* JOHNSON CONTROLS - HITACHI AIR CONDITIONING EUROPE SAS participate in the Eurovent Certification Program for the AC/VRF/LCP-HP categories. Information on certified models can be found in the Eurovent Directory ([www.eurovent-certification.com](http://www.eurovent-certification.com)).

# Air to Air control range

## Wired controllers optional

### Weekly wired controller

- The wired controller with weekly programming was designed to offer the maximum number of functions while ensuring ease of use.
- Clear display of all settings in different languages (5 including French).
- Simplified navigation via menus and navigation button.
- Alarm code: Alarm on the indoor unit or outdoor unit. Type of alarm
- Alarm history.
- Controller blocking option.
- Option for limiting the setpoint ranges and blocking the mode.
- Weekly programming: 5 ranges per day with different set points. Simple programming copying option.
- Away from home function: Up to 99 days of absence. Set point can be adjusted from 10 to 16 °C.
- Consumption indication.

References	<b>SPX -WKT3</b>
Compatibility	All Air to Air R32 and Triple-C ranges
Price	

### Simplified wired controller

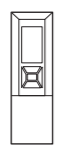

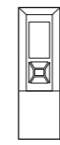

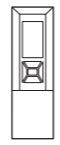
- The simplified wired controller was developed for hotel, retirement home, office applications etc. where the user needs simple and restricted access to the main functions.
- On/Off.
- Mode changing (summer/winter/auto/ventilation/dehumidification).
- Setpoint modification.
- Changing ventilation speeds.
- 12 hour timer or sleep function.
- Centralized control option (see SPX-DST1).

References	<b>SPX-RCDA</b>	<b>SPX-RCDB</b>
Compatibility	All Ducted R32 and Triple-C ranges	All Air to Air R32 and Triple-C ranges except Ducted
Price		

### Wired controller extensions

References	<b>SPX-WKT5M</b>	<b>SPX-WDST8M</b>
Max length authorized		15m
Additional cable	5m	8m
Pre-tax price		

## Controllers delivered as standard

Wireless controllers (Monosplit)	Wall				Console
	Lorai Air Pur	Takai	Mokai	Dodai 2	Shirokuma
	RAK-25-50PSE(S/W)	RAK-18QXE RAK-25-50RXE	RAK-15QPE RAK-18-50RPE	RAK-18-50REF	RAF-25-50RXE
Weekly programming	x	x	x	-	x
ECO (without motion sensor)	x	x	x	x	x
LEAVE HOME, Absence (number of days)	x (1-99)	x (1-99) *	x (1-99) *	x	x (1-99)
POWERFUL, Capacity	x	x	x	x	x
INFO, Fault codes	x	x	x	-	x
INFO, Energy consumption	x	x	x	-	x
INFO, Ambient temperature	x	x	x	-	x
SILENT, Silence	x	x	x	-	x
CLEAN, Automatic cleaning	x	x	x	-	x
FrostWash**	x	x	x	x	-
Controller reference	RAR-6NE1 	RAR-6NE1 	RAR-6NE1 	RAR-7PE1 	RAR-6NE4 

## Wireless weekly controller option

- Weekly programming
- Consumption readings, fault code readings, ambient temperature readings.
- Multi-function: ECO, Absence, Capacity, Silence, Automatic cleaning...
- Supplied with wireless receiver.

Reference	<b>SPX-RCKA1</b>	<b>SPX-RCKA2</b>	<b>SPX-RCKA3</b>
Compatibility	RAD-18QPE RAD-25-60RPE RAD-70PPD	RAK-50RPE1 RAK-60RPE RAK-70PPD	RAI-RPE
Price			

\* Temperature setting adjustment option (10 - 16 °C).

## Probes and contacts

### DRY contact kit only

For remote on/off function.

Reference	<b>SPX-WDC2</b>	<b>SPX-WDC3</b>
Compatibility	RAI-RPE RAD-QPE/RPE RAD-PPD	RAK-QPE/ RAK-RPE/RAK-RXE RAF-RXE/RAK-PSE(W/S) RAK-QXE/RAK-REF
Price (all models)		

### Fault report kit only

This accessory can send a 5 V signal in the event of a fault on the indoor unit. This kit includes a cable (SPX-WDC7) and box (HA-S100TSA to connect).

Reference	<b>SPX-WDC7 + HA-S100TSA</b>	
Compatibility	RAK-QXE/RAK-RXE/RAK-QPE/RAK-RPE RAF-RXE/RAK-REF/RAI-RPE/RAD-RPE	
Price	SPX-WDC7:	HA-S100TSA:

### Fault report kit + dry contact

This accessory can send a 5 V signal in the event of a fault on the indoor unit and offers a remote on/off function. This kit includes a cable (SPX-WDC5 or SPX-WDC6) and box (HA-S100TSA to connect).

Reference	<b>SPX-WDC5 + HA-S100TSA</b>	<b>SPX-WDC6 + HA-S100TSA</b>
Compatibility	RAK-PSE/RAK-QXE/RAK-RXE RAK-QPE/RAK-RPE RAF-RXE/RAK-REF	RAI-QPE/RAD-QPE
Price (all models)	SPX-WDC5 or SPX-WDC6: HA-S100TSA:	

### Fault report kit + operating information

This accessory features 2 outputs. The 1st can send a 220V signal in the event of a fault on the indoor unit. The 2nd can send a 220V signal when the indoor unit is operating.

Reference	<b>SPX-WDC8</b>
Compatibility	RAK-RXE/RAK-RPE/RAI-RPE/RAD-RPE/RAK-QXE RAK-QPE/RAK-REF/RAK-PPD/RAD-PPD
Price	

### Remote sensor for ducted multi-splits

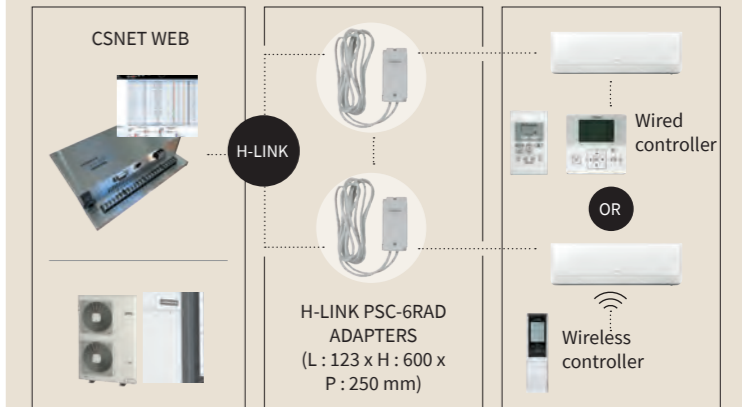
Featuring a remote sensor, the indoor unit is controlled based on ambient temperature.

Reference	<b>SPX-RTH1</b>
Compatibility	RAD-RPE
Price	

## GTC control

### H-LINK box

For connecting indoor units on the Lorai Air Pur, Takai, Mokai, Dodai 2 ranges to a H-Link network.

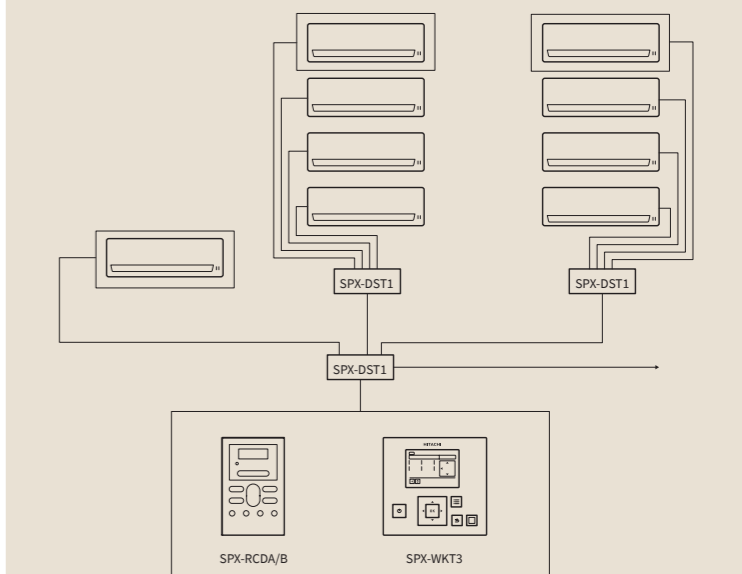


Reference	<b>PSC-6RAD</b>
Compatibility	RAK-PSE/RAK-RXE/RAK-RPE/RAK-QXE/RAK-PPD RAK-QPE/RAF-RXE/RAD-QPE/RAI-RPE
Price (all models)	

## Centralized control

### Multi-indoor unit box

- Combined with a weekly wired controller (SPX-WKT3) or simplified wired controller (SPX-RCDA/B), it can control up to 4 indoor units.
- These indoor units all operate in the same mode and with the same setpoint.
- Up to 4 SPX-DST1 can be connected to control up to 13 indoor units.
- To connect the SPX-DST1 box to the indoor unit, the following cable needs to be ordered: SPX-WDST8M (length: 8 m - 1 cable per indoor unit).



Reference	<b>SPX-DST1 + SPX-WDST8M</b>
Compatibility	RAK-RXE/RAK-PPD/RAF-RXE/RAF-RXE/RAK -RPE/RAK-RXE RAK-PSE(W/S)/RAI-RPE/RAD-RPE/RAD-QPE/RAI-QPE
Price (all models)	<b>SPX-DST1:</b> <b>SPX-WDST8M:</b>

\* Only a HA-S100TSA box required for these references. The SPX-WDC7 is not required.



# Hi Kumo PRO

The remote maintenance solution for the entire residential and small commercial range.

## Why choose Hi Kumo PRO?

Based on the Hi Kumo solution, Hi Kumo PRO goes even further. It enables your installation engineer or maintenance company to offer your client a service with high added value: remote maintenance. Access to operating data is just a few clicks away on an online platform in the event of a breakdown or malfunction. No more lost time and repeated call outs. The problem can be sorted out remotely, very quickly and perhaps even before your client is affected. This means productivity gains for you and satisfied customers!

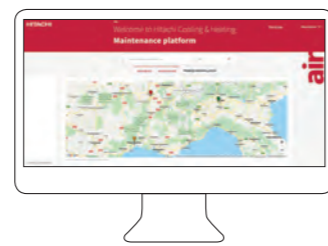
## Functions

Quick troubleshooting to optimize interventions thanks to an easy user-friendly interface.



### Real-time access to machine operating data\*

- Operating status/mode
- Current temperature setting
- Gas/backflow/evaporation temperatures
- Compressor current/frequency
- Water flow and temperatures
- Pump speed
- V3V position



### Access to the entire installation fleet:

- Card or listing display
- Favorite installations option



### Access a 3 month history, simultaneous display of 6 settings from a selection of over 80 including:

- Operating statuses
- Alarms
- Compressor frequency
- Flows/Temperatures...



### Alarm information and troubleshooting assistance:

- Automatic email notification
- Online access to its description and troubleshooting assistance
- Download the troubleshooting guide and send it live to the technician on site



Gateway status, restart and update.



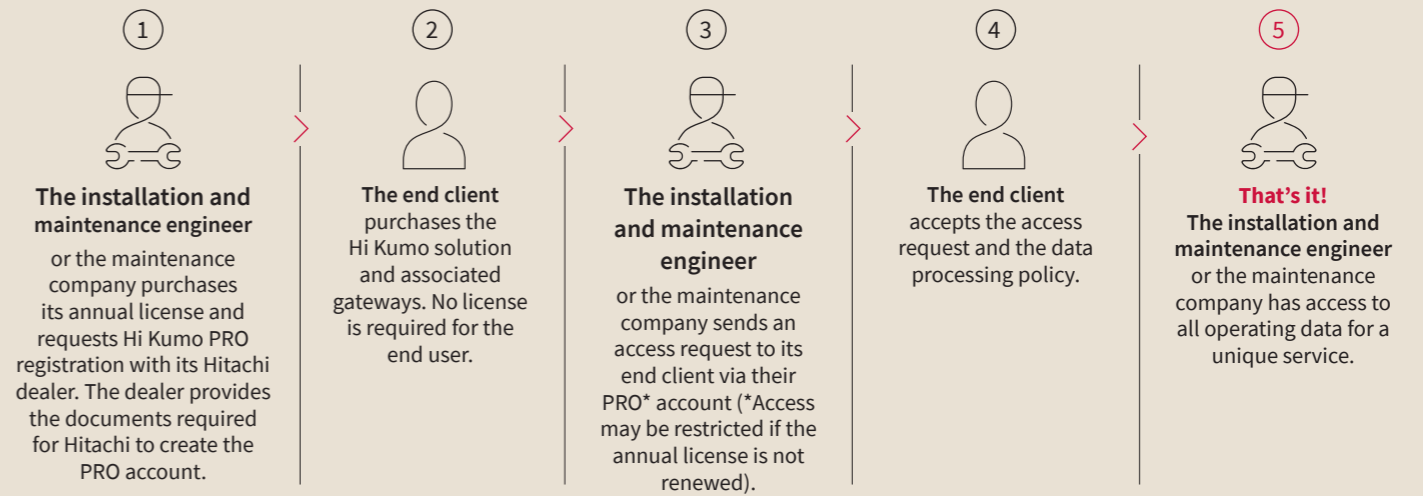
### Remote control:

- Access the same control functions as the Hi Kumo solution except weekly programming.

<https://hi-kumopro.com/#/login>

\* For the Air - Air products, access to indoor unit data only

## How do I benefit from the Hi Kumo PRO service?



### AIR - AIR Heat pump communication gateways

SPX-WFG01 Wifi direct gateway\* or SPX-TAG01 + AHP-SMB-01 Wireless gateway + Hi-Box\* + Annual license (for the maintenance company). Ask their Hitachi dealer

\*10 max/account and 20 wireless gateways/Hi-Box

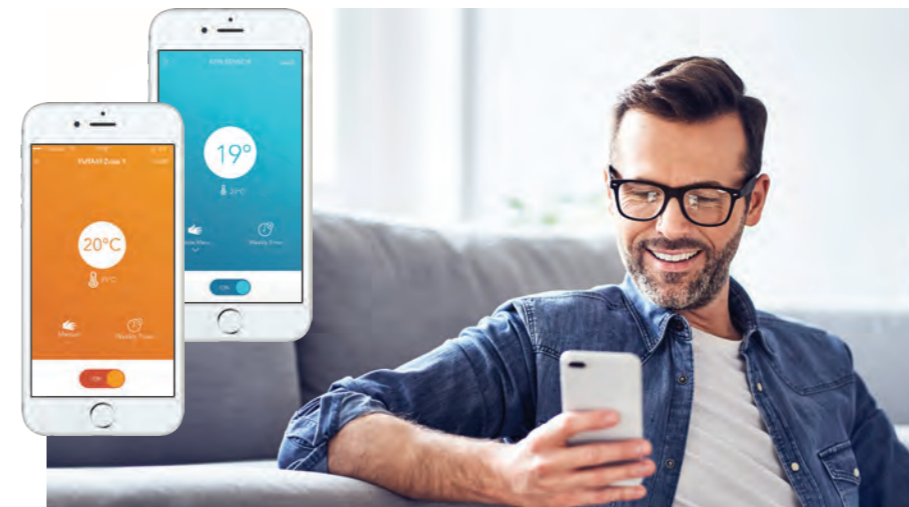


## Hi Kumo

IOS and Android application

## Even more services for the end client with

Control all your new Hitachi residential equipment remotely with a single application.



## Functions

### AIR to AIR Heat pump



- On/Off
- Temperature management
- Ventilation speed
- Swing direction selection
- Weekly programming
- Fault code display...

The Hi Kumo allows you to control the entire Hitachi heat pump range remotely, including Air - Air or Air - Water or Thermodynamic Tank. It provides the end user with genuine comfort through a simple and user-friendly application. Do you think you might have forgotten to switch off the air-conditioning before going out? Do you want to cool down or warm up the place before coming home? It couldn't be easier with the Hi Kumo application!



## Tahoma® by Somfy

The entire Hitachi residential range is now compatible with Tahoma® by Somfy.



Somfy® home automation box

1811527  
Pre-tax price:



Communication interface for AIR to AIR heat pump Monosplits and Multi-splits

SPX-TAG-01  
Pre-tax price:

# List of accessories

Residential and small commercial air-conditioning

	Description	RAK-PSEW/PSES	RAK-QXE	RAK-RXE	RAK-QPE	RAK-RPE	RAK-50RPE1	RAK-60RPE	RAK-70PPD	RAK-REF	RAD-QPE	RAD-RPE	RAD-70PPD	RAF-RXE	RAI-RPE	RAM-NPE	RAM-NEF	Price
<b>SPX-CFH25</b>	Active carbon filter									•	•	•						
<b>SPX-SPF8</b>	Stainless steel prefilter					•												
<b>SPX-SPF9</b>	Stainless steel prefilter	•																
<b>SPX-WDC2</b>	Dry contact kit										•	•	•		•			
<b>SPX-WDC3</b>	Dry contact kit	•	•	•	•	•	•	•	•	•				•				
<b>SPX-WDC5 + HA-S100TSA</b>	Fault report kit + dry contact	•	•	•	•	•				•				•				
<b>SPX-WDC6</b>	Fault report kit cable										•	•			•			
<b>SPX-WDC7 + HA-S100TSA</b>	Fault report kit only	•	•	•	•	•				•								
<b>SPX-WDC8</b>	Fault report kit and operating information			•	•	•	•	•	•	•	•	•	•		•			
<b>SPX-RCDA</b>	Ducted wired controller										•	•	•					
<b>SPX-RCDB</b>	Non-ducted wired controller	•	•	•	•	•	•	•	•	•				•	•			
<b>SPX-RCKA1</b>	Weekly wireless controller										•	•	•					

	Description	RAK-PSEW/PSES	RAK-QXE	RAK-RXE	RAK-QPE	RAK-RPE	RAK-50RPE1	RAK-60RPE	RAK-70PPD	RAK-REF	RAD-QPE	RAD-RPE	RAD-70PPD	RAF-RXE	RAI-RPE	RAM-NPE	RAM-NEF	Price
<b>SPX-RCKA2</b>	Wireless weekly controller						•	•	•									
<b>SPX-RCKA3</b>	Wireless weekly controller														•			
<b>SPX-WKT3</b>	Weekly wired controller	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
<b>SPX-WKT5M</b>	Additional cable 5m		•	•	•	•								•	•			
<b>SPX-DST1</b>	Distribution box	•	•	•	•	•								•	•			
<b>SPX-WDST8M</b>	Additional cable 8m	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
<b>SPX-RTH1</b>	Remote sensor Ducted RAD-RPE											•						
<b>SPX-RAMHLK</b>	Multi OU adapter															•		
<b>PSC-6RAD</b>	H-Link box	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>SPX-WFG01</b>	Gateway-Hi-Kumo-HP-A/A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>SPX-TAG01</b>	Gateway Somfy/Hi-Kumo HP-A/A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>AHP-SMB-01</b>	Hi-Kumo box	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>SPX-RAFGLS</b>	Leak detector													•				