HITACHI

VRF System IVX Standard

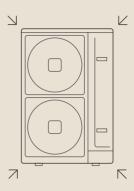






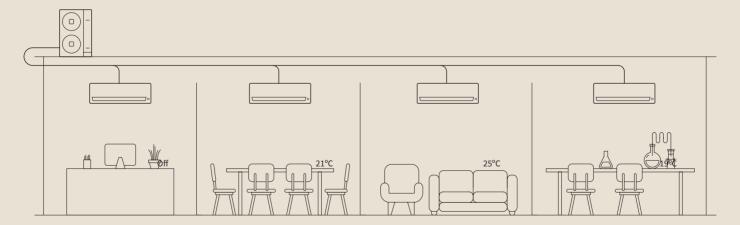
Applications for small commercial premises may present the same requirements of flexibility and comfort as those of large properties. The IVX series starts from 5 kW cooling capacity. Japanese technology, serving the most demanding customers.

Compact systems to adapt to small spaces



The IVX Standard series comprises compact units starting from cooling capacity of 5 kW (2HP), thanks to the use of a DC Inverter scroll compressor.

Independent temperature in each zone



Customers' climate control requirements vary widely in accordance with the intended use of the individual zones and also based on the preferences of the people who occupy them for many hours each day.

Requirements are also influenced by building construction features: windows, lighting, etc. In this context, Hitachi IVX systems guarantee customised control of each of the 8 connectable indoor units.

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Reduction in refrigerant piping, easier installation and lower cost

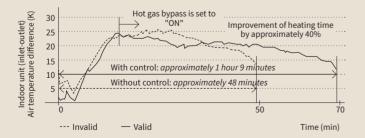
Installation of IVX units offers many benefits compared to a multi-split solution. Starting from the refrigerant pipes, which can follow a more rational and less invasive path since they allow very long connection distances.

Choose the ideal indoor unit in relation to your requirements in terms of aesthetics and comfort



The same installation site may be associated with different aesthetic and functional requirements. In a clothing store, for example, you need the ideal temperature not simply in the display area, but also in the fitting rooms, in the tills area, and so forth. Thanks to the choice of indoor units, with the IVX range you can select the most suitable unit and control it independently for tailored comfort.

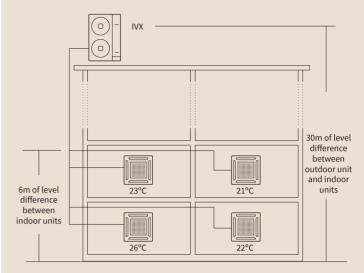
Continuous comfort during the heating season



The IVX series features two important functions that limit the defrost cycles and increase efficiency of the system, even with very low outside temperatures. The system performs a "smart" defrost cycle, adapting the defrost period in accordance with historic data and thereby extending the heating time to guarantee continuous comfort in the heated premises.

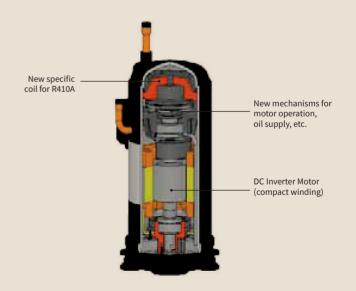
In addition to this function, injection of hot gas on the outdoor heat exchanger limits the formation of ice, thus further reducing the required defrost time.

Flexibility for rooftop installations



Standard IVX systems allow refrigerant pipes of up to 100m in length with level differences of up to 30 m. This allows easy positioning of the outdoor unit on the roof without requiring use of ground level spaces. With our technology, with a single outdoor unit you can install indoor units on a 4-storey building.

DC Inverter Scroll Compressor



The characteristics of the DC Inverter Scroll compressor of the latest generation make it possible to achieve excellent seasonal performance combined with quiet operation and low running costs. The DC Inverter Scroll compressor manufactured by Hitachi can operate at very low revs (20 Hz) while guaranteeing correct lubrication of its parts.

The flexibility introduced by this characteristic makes it possible to control performance also of just one indoor unit, preventing the system from wasting energy.

IVX Standard

VRF technology within reach of all for small commercial applications















Independent control of indoor units

Independent operation of up to 4 indoor units. Each indoor unit, of any type, has its own control that can be set up with independent functions and temperature. (Fig. 1)

Long extension of refrigerant pipes

The presence of an expansion valve in each indoor unit ensures efficient operation even with level differences of up to 30m between outdoor unit and indoor units. (Fig. 2)

High Efficiency

Operation at extreme temperatures. Excellent efficiency from outside temperatures of -20 $^{\circ}$ C in winter up to 46 $^{\circ}$ C in summer

Building automation integration at low cost

Multiple functions of use for integration with elementary type external building automation systems by means of the 7-segment display on the outdoor unit circuit board.

Up to 3 input ports and 2 output ports can be programmed from the 7-segment display, with up to 21 functions.

Flexibility

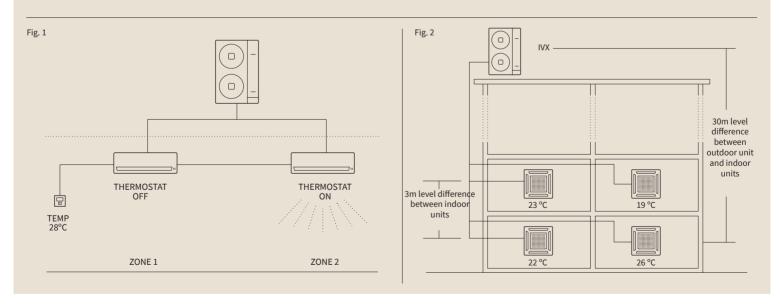
Compatible with all the indoor units of the System Free series and connectable via the H-Link protocol to all individual and centralised control systems.

Easy installation

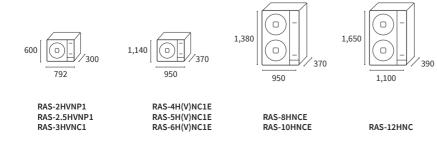
Installation is simplified by a single main refrigerant pipe with connections for the 4 indoor units.

Compact system

Up to 14 kW (6HP) with a single front Wdischarge fan.



Outdoor units



| Outdoor unit | | | RAS-2HVNP1 | RAS-2.5HVNP1 | RAS-3HVNC1 | RAS-4H(V)NC1E | RAS-5H(V)NC1E | RAS-6H(V)NC1E | RAS-8HNCE | RAS-10HNCE | RAS-12HNC |
|-------------------------------------------------------------|--------------------------|--------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Maximum number of connectable indoor units | | | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
| Capacity ratio * | | % | 90-110 | 90-110 | 90-110 | 90-115 | 90-115 | 90-115 | 90-115 | 90-115 | 90-115 |
| Capacity | Cooling (min-nom-max) | kW | 2.20-5.00-5.60 | 2.20-5.60-6.30 | 3.20-7.10-8 | 4.50-10.00-11.2 | 5.70-12.50-14 | 6.00-14.00-16 | 8.00-20.00-22.4 | 10.00-25.00-28 | 11.20-30.00- 33.5 |
| | Heating (min-nom-max) | kW | 2.20-5.60-7.1 | 2.20-6.30-8.00 | 3.50-8.00-10.6 | 5.00-11.20-14 | 5.00-14.00-18 | 5.00-16.00-20 | 6.30-22.40-28 | 8.00-28.00-35 | 9.00-33.50-37.5 |
| Consumption | Cooling (nom) | kW | 1.24 | 1.34 | 2.26 | 2.7 | 3.71 | 4.29 | 5.95 | 8.28 | 11.67 |
| | Heating (nom) | kW | 1.2 | 1.28 | 2 | 2.45 | 3.6 | 4.49 | 5.88 | 7.71 | 13.04 |
| EER | | | 4.03 | 4.18 | 3.14 | 3.7 | 3.37 | 3.26 | 3.36 | 3.02 | 2.57 |
| COP | | | 4.68 | 4.92 | 4.00 | 4.57 | 3.89 | 3.56 | 3.81 | 3.63 | 3.54 |
| SEER | Single-phase | | 6.49 | 6.05 | 6.00 | 6.57 | 6.1 | 5.88 | - | - | - |
| | Three-phase | | - | - | - | 6.41 | 6.06 | 5.85 | 6.79 | 6.61 | 5.3 |
| SCOP | Single-phase | | 4.67 | 4.77 | 4.21 | 4.47 | 4 | 4.05 | - | - | - |
| | Three-phase | | - | - | - | 4.47 | 4 | 4.05 | 4.19 | 3.79 | 3.66 |
| Energy class (medium climate) | Cooling/ Heating | | A++/A++ | A+/A++ | A+/A+ | A++/A+ | - | - | - | - | - |
| Electrical power | Single-phase | | 1~230V 50Hz | - | - | - |
| | Three-phase | | - | - | - | 3N~400V 50Hz |
| Maximum consumption | Single-phase | Α | 13.8 | 15.8 | 17.8 | 28.5 | 28.5 | 28.5 | - | - | - |
| | Three-phase | Α | - | - | - | 15.5 | 15.5 | 15.5 | 24 | 24 | 24.3 |
| Shielded bus cable section | | mm² | 2x0.75 |
| Working range | Cooling (DB) | °C | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 |
| | Heating (WB) | °C | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 |
| Air flow rate | | m³/h | 2,436 | 2,436 | 2,682 | 3,720 | 4,080 | 4,800 | 7,620 | 8,040 | 9,780 |
| Sound pressure | Cooling | dB(A) | 44 | 45 | 48 | 52 | 52 | 55 | 57 | 58 | 59 |
| | Heating | dB(A) | 46 | 47 | 50 | 54 | 54 | 57 | 59 | 60 | 61 |
| Sound power | | dB(A) | 62 | 63 | 66 | 68 | 69 | 71 | 76 | 76 | 77 |
| No. of fans | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Refrigerant piping diameter (external Φ) | Liquid-gas | inches | 1/4-1/2 | 1/4-1/2 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-1 | 1/2-1 | 1/2-1 |
| Minimum piping length | | m | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Maximum piping length | | m | 50 | 50 | 50 | 70 | 75 | 75 | 100 | 100 | 100 |
| Maximum level difference (highest OU/lowest OU) | | m | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 |
| Compressor | | | DC Inverter Scroll |
| Refrigerant | | | R410A |
| Initial refrigerant charge (length without additional ch | narge) | kg (m) | 1.6 (30) | 1.6 (30) | 1.9 (20) | 3.2 (30) | 3.2 (30) | 3.2 (30) | 5.7 (30) | 6.2 (30) | 6.7 (30) |
| Additional refrigerant charge | | g/m | 30 | 30 | 40 | 40 | 60 | 60 | to be calculated | to be calculated | to be calculated |
| Dimensions (H x W x D) | | mm | 600x792x300 | 600x792x300 | 600x792x300 | 1.140x950x370 | 1.140x950x370 | 1.140x950x370 | 1.380x950x370 | 1.380x950x370 | 1.650x1.100x390 |
| Weight | | kg | 43 | 43 | 44 | 79 | 89 | 89 | 136 | 138 | 168 |
| Bonus | Ecobonus | J | ✓ | √ | - | ✓ | √ | √ | √ | - | - |
| | Thermal Balance | 4 | √ | ✓ | ✓ | ✓ | ✓ | ✓ | √ | | - |

Compatible controls and accessories:



Drain pipe connection



DBS-12L Compatible with RAS-2/2.5HVNP1 RAS-3HVNC1



Drain pipe connection



DBS-26 Compatible with RAS-4-12H(V)NC(1)(E)



Optional discharge grille



Compatible with RAS-3HVNC1



Optional discharge grille

AG-335A

Compatible with RAS-4-12H(V)NC(1)(E)

^{*}Consult restrictions affecting compatibility of certain outdoor units.

Parameters EER and COP are defined in mono combination with indoor unit of identical capacity series RCI FSN4.

IVX Standard with wall-mounted unit













A flexible VRF system for all commercial applications



High efficiency with extreme temperatures

The system can operate at outside air temperatures of up to -20 $^{\circ}$ C in heating mode and 46 $^{\circ}$ C in cooling mode.

Expansion valve built into the indoor unit

The expansion valve incorporated in the indoor unit assures greater efficiency, elimination of pressure drops and more accurate temperature control.

Intelligent programming of defrost cycles

The system retains a record of previous defrost cycles to minimise the number of cycles while guaranteeing absolute comfort of indoor temperature conditions. The hot gas bypass on the outdoor unit heat exchanger further reduces the need for defrost cycles. (Fig. 1)

Compact system

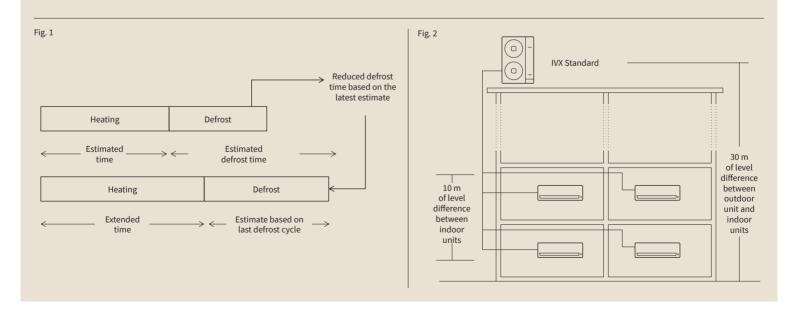
A single fan up to the 6HP size (14 kW): $0.35 \, \text{m}^2$ footprint.

Exceptional installation flexibility

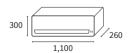
The 3 and 4 HP systems allow refrigerant pipes of up to 70 equivalent linear metres and level differences of up to 30 m. (Fig. 2)

Installation of up to 4 indoor units

Up to 4 indoor units can be connected to provide climate control in 4 different zones with independent temperature control.



Indoor units



Outdoor units



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

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

RAS-4H(V)NC1E

IVX Standard with wall-mounted unit

| System | | | 2HP | 2.5HP | 3НР | 4HP |
|--------------------------------------------------------------|--------------------------|-------------------|--------------------|--------------------|---------------------|-----------------------|
| Capacity | Cooling (min-nom-max) | kW | 2.20-5.00-5.60 | 2.20-5.60-6.30 | 3.20-7.10-8.00 | 4.50-10.00-11.20 |
| | Heating (min-nom-max) | kW | 2.20-5.60-7.10 | 2.20-6.30-8.00 | 3.50-8.00-10.60 | 5.00-11.20-14.00 |
| Consumption | Cooling (nom) | kW | 1.55 | 1.69 | 2.64 | 4.65 |
| | Heating (nom) | kW | 1.51 | 1.68 | 2.73 | 3.56 |
| Electrical power | Single-phase | | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz |
| | Three-phase | | - | - | - | 3N~400V 50Hz |
| Shielded bus cable section | | mm² | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 |
| EER | | | 3.23 | 3.31 | 2.69 | 2.15 |
| COP | | | 3.7 | 3.75 | 2.93 | 3.15 |
| SEER | Single-phase | | 5.47 | 5.24 | 5.35 | 5.56 |
| | Three-phase | | - | - | - | 5.45 |
| SCOP | Single-phase | | 4.01 | 4.14 | 3.8 | 3.83 |
| | Three-phase | | _ | - | - | 3.83 |
| Energy class (medium climate) | Cooling/Heating | | A/A+ | A/A+ | A/A | A/A |
| Working range | Cooling (DB) | °C | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 |
| 0 - 0- | Heating (WB) | °C | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 |
| Refrigerant piping diameter | Liquid-gas | inches | 1/4-1/2 | 1/4-1/2 | 3/8-5/8 | 3/8-5/8 |
| | 4 8 | | | | | |
| Indoor unit | | 2 | RPK-2.0FSN4M | RPK-2.5FSN4M | RPK-3.0FSN4M | RPK-4.0FSN4M |
| Air flow rate (low-medium-high-extra high) | | m ³ /h | 570-660-780-870 | 720-840-990-1,110 | 750-930-1,050-1,200 | 870-1,050-1,200-1,380 |
| Sound pressure (low-medium-high-extra high) | | dB(A) | 31-34-37-40 | 35-38-42-45 | 35-40-44-47 | 39-44-48-51 |
| Sound power (low-medium-high-extra high) | | dB(A) | 47-50-53-55 | 51-54-58-60 | 51-56-60-63 | 54-60-64-65 |
| Dimensions (H x W x D) | | mm | 300x1.100x260 | 300x1.100x260 | 300x1.100x260 | 300x1.100x260 |
| Weight | | kg | 14.5 | 15 | 15 | 15 |
| Condensate drain connection (exte | ernal Φ) | mm | 20 | 20 | 20 | 20 |
| Outdoor unit | | | RAS-2HVNP1 | RAS-2,5HVNP1 | RAS-3HVNC1 | RAS-4H(V)NC1E |
| Air flow rate | | m³/h | 2,436 | 2,436 | 2,682 | 3,720 |
| Sound pressure | Cooling | dB(A) | 44 | 45 | 48 | 52 |
| | Heating | dB(A) | 46 | 47 | 50 | 54 |
| Sound power | | dB(A) | 62 | 63 | 66 | 68 |
| No. of fans | | | 1 | 1 | 1 | 1 |
| Maximum consumption | Single-phase | А | 13.8 | 15.8 | 17.8 | 28.5 |
| · | Three-phase | А | - | - | - | 15.1 |
| Minimum piping length | | m | 5 | 5 | 5 | 5 |
| Maximum piping length | | m | 50 | 50 | 50 | 70 |
| Maximum level difference (highest OU/lowest OU) | | m | 30/20 | 30/20 | 30/20 | 30/20 |
| Compressor | | | DC Inverter Scroll | DC Inverter Scroll | DC Inverter Scroll | DC Inverter Scroll |
| Refrigerant | | | R-410A | R-410A | R-410A | R-410A |
| nitial refrigerant charge (length without additional charge) | | kg (m) | 1.6 (30) | 1.6 (30) | 1.9 (20) | 3.2 (30) |
| Additional refrigerant charge | | g/m | 30 | 30 | 40 | 40 |
| | | mm | 600x792x300 | 600x792x300 | 600x792x300 | 1.140x950x370 |
| Dimensions (H x W x D) | | | | | 221 3230 | |
| Dimensions (H x W x D) | | kσ | 43 | 43 | 44 | 79 |
| Dimensions (H x W x D) Weight Bonus | Ecobonus | kg | 43 ✓ | 43 ✓ | 44 | 79 |

Compatible controls and accessories:







Accessories:

- PCC-1A connector for input/output ports (5 pcs.)

IVX Standard with duct units









A flexible VRF system for all commercial applications



Built-in condensate pump

The condensate collected in the internal drain pan is automatically expelled by the pump built into in the unit.

Compact system

A single fan up to the 6HP size (14kW). 0.35 m² footprint

Expansion valve built into the indoor unit

The expansion valve built into the indoor unit assures greater efficiency, elimination of pressure drops and more accurate temperature control.

Intelligent programming of defrost cycles

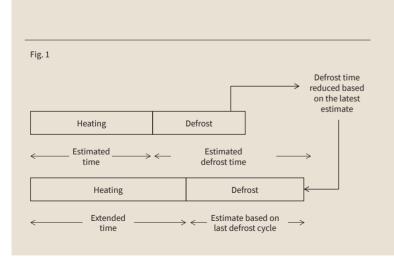
The system retains a record of previous defrost cycles to minimise the number of cycles while guaranteeing absolute comfort of indoor temperature conditions. The hot gas bypass on the outdoor unit heat exchanger further reduces the need for defrost cycles. (Fig. 1)

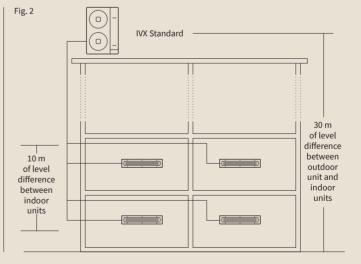
Exceptional installation flexibility

The 3 and 4 HP systems allow refrigerant pipes of up to 70 equivalent linear metres and level differences of up to 30 m. (Fig. 2)

Installation of up to 4 indoor units

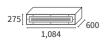
Up to 4 indoor units can be connected to provide climate control in 4 different zones with independent temperature control.



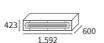


Indoor units

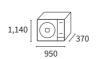
Outdoor units

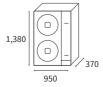












RPI-2.0FSN5E RPI-2.5FSN5E RPI-3.0FSN5E

RPI-4.0FSN5E RPI-5.0FSN5E RPI-6.0FSN5E

RPI-8.0FSN3F RPI-10.0FSN3E RAS-2HVNP1 RAS-2.5HVNP1 RAS-3HVNC1

RAS-4H(V)NC1E RAS-5H(V)NC1E RAS-6H(V)NC1E

RAS-8HNCE RAS-10HNCE

IVX Standard with duct units

| System | | | 2HP | 2.5HP | ЗНР | 4HP | 5HP | 6HP | 8HP | 10HP |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Capacity | Cooling (min-nom-max) | kW | 2.20-5.00-5.60 | 2.20-5.60-6.30 | 3.20-7.10-8.00 | 4.50-10.00-11.20 | 5.70-12.50-14.00 | 6.00-14.00-16.00 | 8.00-20.00-22.40 | 10.00-25.00-28.0 |
| | Heating (min-nom-max) | kW | 2.20-5.60-7.10 | 2.20-6.30-8.00 | 3.50-8.00-10.60 | 5.00-11.20-14.00 | 5.00-14.00-18.00 | 5.00-16.00-20.00 | 6.30-22.40-28.00 | 8.00-28.00-35.00 |
| Consumption | Cooling (nom) | kW | 1.41 | 1.6 | 2.53 | 3.1 | 3.93 | 4.55 | 5.95 | 8.28 |
| | Heating (nom) | kW | 1.5 | 1.65 | 2.26 | 2.78 | 3.95 | 4.4 | 5.88 | 7.71 |
| Electrical power | Single-phase | | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | - | - |
| | Three-phase | | - | - | - | 3N~400V 50Hz | 3N~400V 50Hz | 3N~400V 50Hz | 3N~400V 50Hz | 3N~400V 50Hz |
| Shielded bus cable section | | mm² | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 |
| EER | | | 3.54 | 3.49 | 2.81 | 3.23 | 3.18 | 3.08 | 3.36 | 3.02 |
| COP | | | 3.73 | 3.81 | 3.54 | 4.03 | 3.54 | 3.64 | 3.81 | 3.63 |
| SEER | Single-phase | | 5.6 | 5.51 | 4.97 | 5.38 | 5.88 | 5.67 | - | - |
| | Three-phase | | - | - | - | 5.27 | 5.84 | 5.64 | 6.79 | 6.61 |
| SCOP | Single-phase | | 4.01 | 4.33 | 3.8 | 4.01 | 3.91 | 3.96 | - | - |
| | Three-phase | | - | - | - | 4.01 | 3.9 | 3.96 | 4.19 | 3.79 |
| Energy class (medium climate) | Cooling/ Heating | | A+/A+ | A/A+ | B/A | A/A+ | - | - | - | - |
| Working range | Cooling (DB) | °C | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 |
| | Heating (WB) | °C | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 |
| Refrigerant piping diameter | Liquid-gas | inches | 1/4-1/2 | 1/4-1/2 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-1 | 1/2-1 |
| Indoor unit | | | RPI-2.0FSN5E | RPI-2.5FSN5E | RPI-3.0FSN5E | RPI-4.0FSN5E | RPI-5.0FSN5E | RPI-6.0FSN5E | RPI-8.0FSN3E | RPI-10.0FSN3E |
| Air flow rate (low - medium - | high) | m³/h | 600-750-960 | 780-960-1,140 | | 1,500-1,680-1,800 | | | | |
| Static pressure (range) | | Pa | 30 (0-120) | 30 (0-125) | 30 (0-125) | 45 (0-120) | 50 (0-140) | 50 (0-140) | 180 (140-220) | 180 (140-220) |
| Sound pressure (low-medium | m-high) | 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 (high) | | dB(A) | 55 | 56 | 57 | 62 | 65 | 66 | 77 | 78 |
| Dimensions (H x W x D) | | mm | 275x1.084x600 | 275x1.084x600 | 275x1.084x600 | 275x1.474x600 | 275x1.474x600 | 275x1.474x600 | 423x1.592x600 | 423x1.592x600 |
| Weight | | kg | 35 | 36 | 36 | 48 | 48 | 48 | 85 | 87 |
| Condensate drain connectio (external Φ) | n | mm | 32 | 32 | 32 | 32 | 32 | 32 | 25 | 25 |
| Condensate pump | | | Included | Included | Included | Included | Included | Included | Included | Included |
| Max head | | mm | 850 | 850 | 850 | 850 | 850 | 850 | - | - |
| | | | | RAS-2,5HVNP1 | | | | | DAG OUNGE | DAC TOUNCE |
| Outdoor unit | | | RAS-2HVNP1 | RAS-2.5HVNP1 | | | RAS-5H(V)NC.1F | RAS-6H(V)NC1E | | RAS-10HNCE |
| Air flow rate | | 2 /1 | 2.426 | , | RAS-3HVNC1 | | | | RAS-8HNCE | 0.040 |
| Sound pressure | CI: | m³/h | 2,436 | 2,436 | 2,682 | 3,720 | 4,080 | 4,800 | 7,620 | 8,040 |
| | Cooling | dB(A) | 44 | 2,436 45 | 2,682 48 | 3,720 52 | 4,080 52 | 4,800 55 | 7,620 57 | 58 |
| Canadaanna | Cooling Heating | dB(A) | 44 46 | 2,436 45 47 | 2,682 48 50 | 3,720 52 54 | 4,080 52 54 | 4,800 55 57 | 7,620 57 59 | 58 60 |
| Sound power | _ | dB(A) | 44 46 62 | 2,436 45 47 63 | 2,682 48 50 66 | 3,720 52 54 68 | 4,080 52 54 69 | 4,800 55 57 71 | 7,620 57 59 76 | 58 60 76 |
| No. of fans | Heating | dB(A) dB(A) dB(A) | 44 46 62 1 | 2,436 45 47 63 1 | 2,682 48 50 66 1 | 3,720 52 54 68 1 | 4,080 52 54 69 1 | 4,800 55 57 71 1 | 7,620 57 59 | 58 60 |
| · | Heating Single-phase | dB(A) dB(A) dB(A) | 44 46 62 | 2,436 45 47 63 | 2,682 48 50 66 | 3,720 52 54 68 1 28.5 | 4,080 52 54 69 1 28.5 | 4,800 55 57 71 1 28.5 | 7,620 57 59 76 2 | 58 60 76 2 |
| No. of fans Maximum consumption | Heating | dB(A) dB(A) dB(A) | 44 46 62 1 13.8 | 2,436 45 47 63 1 15.8 | 2,682 48 50 66 1 17.8 | 3,720 52 54 68 1 28.5 | 4,080 52 54 69 1 28.5 | 4,800 55 57 71 1 28.5 15.5 | 7,620 57 59 76 2 - | 58 60 76 2 - |
| No. of fans Maximum consumption Minimum piping length | Heating Single-phase | dB(A) dB(A) dB(A) | 44 46 62 1 13.8 - | 2,436 45 47 63 1 15.8 | 2,682 48 50 66 1 17.8 | 3,720 52 54 68 1 28.5 15.5 | 4,080 52 54 69 1 28.5 15 | 4,800 55 57 71 1 28.5 15.5 | 7,620 57 59 76 2 - 24 5 | 58 60 76 2 - 24 5 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference | Heating Single-phase | dB(A) dB(A) dB(A) | 44 46 62 1 13.8 | 2,436 45 47 63 1 15.8 | 2,682 48 50 66 1 17.8 | 3,720 52 54 68 1 28.5 | 4,080 52 54 69 1 28.5 | 4,800 55 57 71 1 28.5 15.5 | 7,620 57 59 76 2 - | 58 60 76 2 - |
| No. of fans Maximum consumption Minimum piping length Maximum piping length | Heating Single-phase | dB(A) dB(A) dB(A) A A m | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC | 2,436 45 47 63 1 15.8 - 5 | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC | 4,080 52 54 69 1 28.5 15 5 | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC | 58 60 76 2 - 24 5 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor | Heating Single-phase | dB(A) dB(A) dB(A) A A m | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC Inverter | 2,436 45 47 63 1 15.8 - 5 50 30/20 Scroll DC Inverter | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC Inverter | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC Inverter | 4,080 52 54 69 1 28.5 15 5 75 30/20 Scroll DC Inverter | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC Inverter | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC Inverter | 58 60 76 2 - 24 5 100 30/20 Scroll DC Inverte |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge | Heating Single-phase Three-phase | dB(A) dB(A) dB(A) A A m | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC | 2,436 45 47 63 1 15.8 - 5 50 30/20 | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC | 4,080 52 54 69 1 28.5 15 5 75 30/20 | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC | 58 60 76 2 - 24 5 100 30/20 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional cl | Heating Single-phase Three-phase | dB(A) dB(A) dB(A) A A m m | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) | 2,436 45 47 63 1 15.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC Inverter R410A 1.9 (20) | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC Inverter R410A 3.2 (30) | 4,080 52 54 69 1 28.5 15 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC Inverter R410A 5.7 (30) | 58 60 76 2 - 24 5 100 30/20 Scroll DC Inverte R410A 6.2 (30) |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional cl | Heating Single-phase Three-phase | dB(A) dB(A) dB(A) A A m m | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) | 2,436 45 47 63 1 15.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC Inverter R410A 1.9 (20) | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC Inverter R410A 3.2 (30) 40 | 4,080 52 54 69 1 28.5 15 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) 60 | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) 60 | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC Inverter R410A 5.7 (30) to be calculated | 58 60 76 2 - 24 5 100 30/20 Scroll DC Inverte R410A 6.2 (30) |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional cl Additional refrigerant charge Dimensions (H x W x D) | Heating Single-phase Three-phase | dB(A) dB(A) A A m m g/m mm | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) 30 600x792x300 | 2,436 45 47 63 1 15.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) 30 600x792x300 | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC Inverter R410A 1.9 (20) 40 600x792x300 | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC Inverter R410A 3.2 (30) 40 1.140x950x370 | 4,080 52 54 69 1 28.5 15 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) 60 1.140x950x370 | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) 60 1.140x950x370 | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC Inverter R410A 5.7 (30) to be calculated 1.380x950x370 | 58 60 76 2 - 24 5 100 30/20 Scroll DC Inverte R410A 6.2 (30) to be calculated |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) | Heating Single-phase Three-phase | dB(A) dB(A) dB(A) A A m m | 44 46 62 1 13.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) | 2,436 45 47 63 1 15.8 - 5 50 30/20 Scroll DC Inverter R-410A 1.6 (30) | 2,682 48 50 66 1 17.8 - 5 50 30/20 Scroll DC Inverter R410A 1.9 (20) | 3,720 52 54 68 1 28.5 15.5 5 70 30/20 Scroll DC Inverter R410A 3.2 (30) 40 | 4,080 52 54 69 1 28.5 15 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) 60 | 4,800 55 57 71 1 28.5 15.5 5 75 30/20 Scroll DC Inverter R410A 3.2 (30) 60 | 7,620 57 59 76 2 - 24 5 100 30/20 Scroll DC Inverter R410A 5.7 (30) to be calculated | 58 60 76 2 - 24 5 100 30/20 Scroll DC Inverte R410A 6.2 (30) |

Compatible controls and accessories:





Remote control PC-AWR



Compact wired control PC-ARH1E

Accessories:

- Presence sensor SOR-MSK.Compatible with RPI-(0.4-3.0)FSN5E
- Connector for input/output ports (5 pcs.) PCC- 1A

IVX Standard with 4-way mini cassette unit



















Smart control of defrost cycles

The system saves previous defrost cycles to minimise the need to for defrosting thus guaranteeing a comfortable indoor temperature. The hot gas bypass on the outdoor unit heat exchanger further reduces the need for defrost cycles. (Fig. 1)

Optional presence sensor

The sensor is designed to identify the presence of human occupants and adapt performance accordingly.

The most compact VRF technology system

The perfect option for climate control of medium-small spaces, including stores, showrooms and offices.

Extended refrigerant pipes

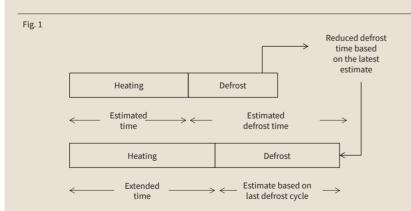
Up to 50m in length and with 3m level difference between indoor units. (Fig. 2)

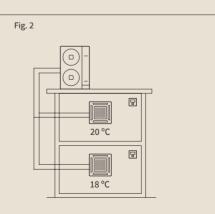
New design of louvers

The newly designed independently controlled air diffusion louvers promote the Coanda effect for optimal air distribution.

Individual control and simultaneous control

Simultaneous control of the 2 indoor units can be achieved by connecting the wired control only to one indoor unit, thus avoiding electrical wiring costs.





Indoor units

Outdoor units





| System | | | 2 HP | 2.5 HP |
|---------------------------------------------------------|--------------------------|-------------------|--------------------|--------------------|
| Capacity | Cooling (min-nom-max) | kW | 2.20-5.00-5.60 | 2.20-5.60-6.30 |
| | Heating (min-nom-max) | kW | 2.20-5.60-7.10 | 2.20-6.30-8.00 |
| Consumption | Cooling (nom) | kW | 1.45 | 1.72 |
| | Heating (nom) | kW | 1.47 | 1.57 |
| Electrical power | | | 1~230V 50Hz | 1~230V 50Hz |
| Internal / external connection cross section (shielded) | | mm² | 2 x 0.75 | 2 x 0.75 |
| EER | | | 3.45 | 3.25 |
| COP | | | 3.80 | 4.02 |
| SEER | Single-phase | | 5.67 | 5.61 |
| | Three-phase | | - | - |
| SCOP | Single-phase | | 4.00 | 4.41 |
| | Three-phase | | - | - |
| Energy class (medium climate) | Cooling/Heating | | A+/A+ | A+/A+ |
| Working range | Cooling | °C | -5 ÷ 46 | -5 ÷ 46 |
| (Outdoor air temperature) | Heating | °C | -20 ÷ 15 | -20 ÷ 15 |
| Refrigerant piping diameter | Liquid-gas | inches | 1/4-1/2 | 3/8-5/8 |
| Indoor unit | | | RCIM-2.0FSN4E | RCIM-2.5FSN4E |
| Air flow rate | | m³/h | 480-600-720-900 | 600-720-840-960 |
| (low-medium-high-extra high) Sound pressure | | dB(A) | 31-35-39-45 | 35-39-43-47 |
| (low-medium-high-extra high) | | . , | | |
| Sound power | | dB(A) | 56 | 60 |
| Dimensions (H x W x D) | | mm | 285-570-570 | 285-570-570 |
| Weight | | kg | 17.0 | 17.0 |
| Panel dimensions (H x W x D) | | mm | 30x620x620 | 30x620x620 |
| Panel weight | | kg | 2.5 | 2.5 |
| Condensate drain connection (external Φ) | | mm | 32 | 32 |
| Condensate pump | | | Included | Included |
| Max head | | mm | 850 | 850 |
| Outdoor unit | | | RAS-2HVNP1 | RAS-2,5HVNP1 |
| Air flow rate | | m ³ /h | 2,436 | 2,436 |
| Sound pressure | Cooling | dB(A) | 44 | 45 |
| | Heating | dB(A) | 46 | 47 |
| Sound power | | dB(A) | 62 | 63 |
| No. of fans | | | 1 | 1 |
| Maximum consumption | Single-phase | A | 13.8 | 15.8 |
| | Three-phase | A | - | = |
| Minimum piping length | | m | 5 | 5 |
| Maximum piping length | | m | 50 | 50 |
| Maximum level difference (highest OU/lowest OU) | | m | 30/20 | 30/20 |
| Compressor | | | DC Inverter Scroll | DC Inverter Scroll |
| Refrigerant | | | R-410A | R-410A |
| Initial refrigerant charge (length without add | litional charge) | kg (m) | 1.6 (30) | 1.6 (30) |
| Additional refrigerant charge | - | g/m | 30 | 30 |
| Dimensions (H x W x D) | | mm | 600x792x300 | 600x792x300 |
| Weight | | kg | 43.0 | 43.0 |
| Bonus | Ecobonus | | ✓ | ✓ |
| | Thermal Balance | | ✓ | ✓ |

Compatible controls and accessories:



Wired control with display
PC-ARFP1E



Remote control PC-AWR



Compact wired control PC-ARH1E

Accessories:

SOR-NEC presence sensor.
 Compatible with RCIM-FSN4E

IVX Standard with 4-way cassette unit

















A flexible VRF system for all commercial applications



Built-in condensate pump

The condensate collected in the internal drain pan is automatically expelled by the pump built into in the unit.

Presence sensor

Allows a presence sensor to be mounted in the panel to optimise energy consumption. (Fig. 1)

Expansion valve built into the indoor unit

The expansion valve incorporated in the indoor unit assures greater efficiency, elimination of pressure drops and more accurate temperature control.

Intelligent programming of defrost cycles

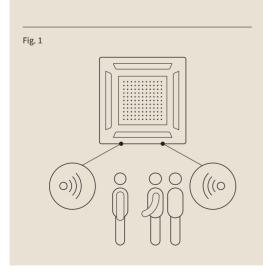
The system retains a record of previous defrost cycles to minimise the number of cycles while guaranteeing absolute comfort of indoor temperature conditions. The hot gas bypass on the outdoor unit heat exchanger further reduces the need for defrost cycles. (Fig. 1)

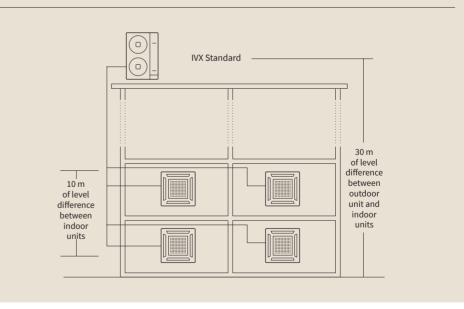
Exceptional installation flexibility

The 3 and 4 HP systems allow refrigerant pipes of up to 70 equivalent linear metres and level differences of up to 30 m. (Fig. 2)

Installation of up to 4 indoor units

Up to 4 indoor units can be connected to provide climate control in 4 different zones with independent temperature control.





Indoor units

Outdoor units







Fig. 2

RCI-2.0FSN4 RCI-2.5FSN4 RCI-3.0FSN4 RCI-4.0FSN4 RCI-5.0FSN4 RCI-6.0FSN4

RAS-2HVNP1 RAS-2.5HVNP1 RAS-3HVNC1 RAS-4H(V)NC1E RAS-5H(V)NC1E RAS-6H(V)NC1E

Standard IVX with 4-way cassette type unit

| System | | | 2HP | 2.5HP | ЗНР | 4HP | 5HP | 6HP |
|------------------------------------------------------------------|--------------------------|-------------------|---------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| Capacity | Cooling (min-nom-max) | kW | 2.20-5.00-5.60 | 2.20-5.60-6.30 | 3.20-7.10-8.00 | 4.50-10.00-11.20 | 5.70-12.50-14.00 | 6.00-14.00-16.00 |
| | Heating (min-nom-max) | kW | 2.20-5.60-7.10 | 2.20-6.30-8.00 | 3.50-8.00-10.60 | 5.00-11.20-14.00 | 5.00-14.00-18.00 | 5.00-16.00-20.00 |
| Consumption | Cooling (nom) | kW | 1.24 | 1.34 | 2.26 | 2.7 | 3.71 | 4.29 |
| | Heating (nom) | kW | 1.2 | 1.28 | 2 | 2.45 | 3.6 | 4.49 |
| Electrical power | Single-phase | | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz |
| | Three-phase | | - | - | - | 3N~400V 50Hz | 3N~400V 50Hz | 3N~400V 50Hz |
| Shielded bus cable section | | mm² | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 |
| EER | | | 4.03 | 4.18 | 3.14 | 3.7 | 3.37 | 3.26 |
| COP | | | 4.68 | 4.92 | 4 | 4.57 | 3.89 | 3.56 |
| SEER | Single-phase | | 6.49 | 6.05 | 6 | 6.57 | 6.1 | 5.88 |
| | Three-phase | | - | - | - | 6.41 | 6.06 | 5.85 |
| SCOP | Single-phase | | 4.67 | 4.77 | 4.21 | 4.47 | 4 | 4.05 |
| | Three-phase | | - | - | - | 4.47 | 4 | 4.05 |
| Energy class (medium climate) | Cooling/Heating | | A++/A++ | A+/A++ | A+/A+ | A++/A+ | - | - |
| Working range | Cooling (DB) | °C | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 |
| | Heating (WB) | °C | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 |
| Refrigerant piping diameter | Liquid-gas | inches | 1/4-1/2 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 |
| Indoor unit | | | RCI-2.0FSN4 | RCI-2.5FSN4 | RCI-3.0FSN4 | RCI-4.0FSN4 | RCI-5.0FSN4 | RCI-6.0FSN4 |
| Air flow rate (low-medium-high-extra high) | | m ³ /h | 660-840-1,020-1,320 | 840-1,080-1,380- 1,620 | 840-1,080-1,380- 1,620 | 1,200-1,440-1,860- 2,220 | 1,260-1,560-1,980- 2,220 | 1,320-1,680-2,100- 2,220 |
| Sound pressure (low-medium-high-extra high) | | dB(A) | 27-30-32-37 | 28-32-36-42 | 28-32-36-42 | 33-39-43-48 | 35-40-45-48 | 37-41-46-48 |
| Sound power (low-medium-high-ext | ra high) | dB(A) | 55 | 56 | 57 | 64 | 64 | 65 |
| Dimensions (H x W x D) | | mm | 248x840x840 | 248x840x840 | 298x840x840 | 298x840x840 | 298x840x840 | 298x840x840 |
| Weight | | kg | 21 | 22 | 26 | 26 | 26 | 26 |
| Panel dimensions (H x W x D) | | mm | 40x950x950 | 40x950x950 | 40x950x950 | 40x950x950 | 40x950x950 | 40x950x950 |
| Panel weight | | kg | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| Condensate pipe diameter (external) | | mm | 32 | 32 | 32 | 32 | 32 | 32 |
| Condensate pump | | | Included | Included | Included | Included | Included | Included |
| Max head | | mm | 850 | 850 | 850 | 850 | 850 | 850 |
| Outdoor unit | | | RAS-2HVNP1 | RAS-2,5HVNP1 | RAS-3HVNC1 | RAS-4H(V)NC1E | RAS-5H(V)NC1E | RAS-6H(V)NC1E |
| Air flow rate | | m ³ /h | 2,436 | 2,436 | 2,682 | 3,720 | 4,080 | 4,800 |
| Sound pressure | Cooling | dB(A) | 44 | 45 | 48 | 52 | 52 | 55 |
| | Heating | dB(A) | 46 | 47 | 50 | 54 | 54 | 57 |
| Sound power | | dB(A) | 62 | 63 | 66 | 68 | 69 | 71 |
| No. of fans | | | 1 | 1 | 1 | 1 | 1 | 1 |
| Maximum consumption | Single-phase | Α | 13.8 | 15.8 | 17.8 | 28.5 | 28.5 | 28.5 |
| | Three-phase | Α | - | - | - | 15.5 | 15.5 | 15.5 |
| Minimum piping length | | m | 5 | 5 | 5 | 5 | 5 | 5 |
| Maximum piping length | | m | 50 | 50 | 50 | 70 | 75 | 75 |
| Maximum level difference (highest OU/lowest OU) | | m | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 | 30/20 |
| Compressor | | | DC Inverter Scroll | DC Inverter Scroll | DC Inverter Scroll | DC Inverter Scroll | DC Inverter Scroll | DC Inverter Scroll |
| Refrigerant | | | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A |
| Initial refrigerant charge (length without additional charge) | | kg (m) | 1.6 (30) | 1.6 (30) | 1.9 (30) | 3.2 (30) | 3.2 (30) | 3.2 (30) |
| Additional refrigerant charge | | g/m | 30 | 30 | 40 | 40 | 60 | 60 |
| 00- | | <u></u> | | | | | 1.140x950x370 | 1.140x950x370 |
| Dimensions (H x W x D) | | mm | 600x792x300 | 600x792x300 | 600x792x300 | 1.140x950x370 | 1.140X950X370 | 1.14089308370 |
| Dimensions (H x W x D) Weight | | | 600x792x300 43 | 600x792x300 43 | 600x792x300 44 | 79 | 89 | 89 |
| Dimensions (H x W x D) Weight Bonus | Ecobonus | mm kg | | | | | | |

Compatible controls and accessories:





Remote control PC-AWR



Compact wired control PC-ARH1E

Accessories:

- Presence sensor PS-MSK2.
 Compatible with RCI-FSN4
- Connector for input/output ports (5 pcs.) PCC- 1A

IVX Standard with ceiling unit



A+







A flexible VRF system for all commercial applications



High efficiency with extreme temperatures

The system operates at outside air temperatures of up to -20 °C in heating mode and 46 °C in cooling mode.

Comfortable temperature

The new design of the automatic louvre prevents the creation of cold draughts and aids correct air distribution

Suitable for rooms with very high ceilings

A very high fan speed can be selected on the system to guarantee optimal air distribution.

Presence sensor

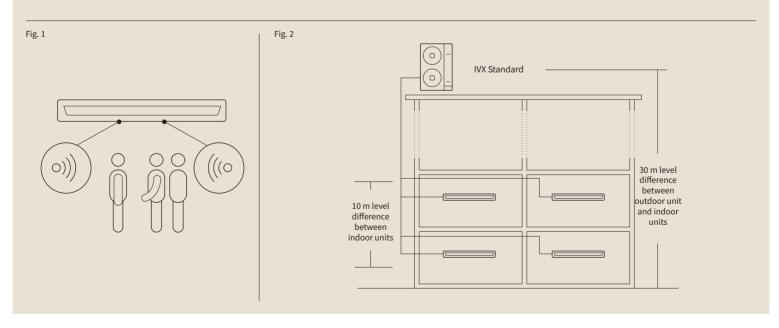
The system can be equipped with a presence sensor to optimise energy consumption. (Fig. 1)

Exceptional installation flexibility

Installation of the 3 and 4 HP models offers the facility to install units with refrigerant pipes of up to 70 m in length and with a level difference of 30

Installation of up to 4 indoor units

Up to 4 indoor units can be connected to provide climate control in 4 different zones with independent temperature control.







RPC-2.0FSN3

RPC-3.0FSN3

RPC-4.0FSN3 RPC-5.0FSN3 RPC-6.0FSN3

RAS-2HVNP1 RAS-2.5HVNP1 RAS-3HVNC1 RAS-4H(V)NC1E RAS-5H(V)NC1E RAS-6H(V)NC1E

Standard IVX with ceiling unit

| System | | | 2 HP | 2.5 HP | ЗНР | 4HP | 5HP | 6HP |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Capacity | Cooling (min-nom-max) | kW | 2.20-5.00-5.60 | 2.20-5.60-6.30 | 3.20-7.10-8.00 | 4.50-10.00-11.20 | 5.70-12.50-14.00 | 6.00-14.00-16.00 |
| | Heating (min-nom-max) | kW | 2.20-5.60-7.10 | 2.20-6.30-8.00 | 3.50-8.00-10.60 | 5.00-11.20-14.00 | 5.00-14.00-18.00 | 5.00-16.00-20.00 |
| Consumption | Cooling (nom) | kW | 1.34 | 1.4 | 2.29 | 3.25 | 4.6 | 5.49 |
| | Heating (nom) | kW | 1.38 | 1.53 | 2.33 | 2.91 | 3.94 | 4.4 |
| Electrical power | Single-phase | | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz | 1~230V 50Hz |
| | Three-phase | | - | - | - | 3N~400V 50Hz | 3N~400V 50Hz | 3N~400V 50Hz |
| Shielded bus cable section | | mm² | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 | 2 x 0.75 |
| EER | | | 3.72 | 4.00 | 3.1 | 3.08 | 2.72 | 2.55 |
| COP | | | 4.06 | 4.12 | 3.43 | 3.85 | 3.55 | 3.64 |
| SEER | Single-phase | | 5.63 | 5.49 | 5.29 | 5.02 | 5.74 | 5.56 |
| | Three-phase | | - | - | - | 4.93 | 5.71 | 5.53 |
| SCOP | Single-phase | | 4.44 | 4.49 | 4.13 | 3.9 | 4 | 4.04 |
| | Three-phase | | - | - | - | 3.9 | 4 | 4.04 |
| Energy class (medium climate) | Cooling/Heating | | A+/A+ | A/A+ | A/A+ | B/A | - | - |
| Working range | Cooling (DB) | °C | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 | -5 ÷ 46 |
| | Heating (WB) | °C | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 | -20 ÷ 15 |
| Refrigerant piping diameter | Liquid-gas | inches | 1/4-1/2 | 3/8 - 5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 | 3/8-5/8 |
| Indoor unit | | | RPC-2.0FSN3 | RPC-2.5FSN3 | RPC-3.0FSN3 | RPC-4.0FSN3 | RPC-5.0FSN3 | RPC-6.0FSN3 |
| Air flow rate (low-medium-high-extra high) | | m ³ /h | 540-660-780-900 | 690-840-990-1,140 | 750-930-1,110-1,260 | 1,020-1,320-1,590- 1,800 | 1,200-1,530-1,860- 2,100 | 1,260-1,620-1,950- 2,220 |
| Sound pressure (low-medium-high-extra high) | | dB(A) | 28-31-35-38 | 28-31-35-38 | 29-33-37-40 | 32-37-42-44 | 35-41-45-48 | 36-42-47-49 |
| Sound power (low-medium-high-ext | ra high) | dB(A) | 43/46/50/54 | 44/47/50/54 | 44/48/52/56 | 47/52/57/60 | 50/56/60/64 | 51/57/62/65 |
| Dimensions (H x W x D) | | mm | 235x960x690 | 235x1.270x690 | 235x1.270x690 | 235x1.580x690 | 235x1.580x690 | 235x1.580x690 |
| Weight | | kg | 27 | 35 | 35 | 41 | 41 | 41 |
| Condensate drain connection (extern | nal Φ) | mm | 25 | 25 | 25 | 25 | 25 | 25 |
| Outdoor unit | | | RAS-2HVNP1 | RAS-2.5HVNP1 | RAS-3HVNC1 | RAS-4H(V)NC1E | RAS-5H(V)NC1E | RAS-6H(V)NC1E |
| Air flow rate | | m ³ /h | 2,436 | 2,436 | 2,682 | 3,720 | 4,080 | 4,800 |
| Sound pressure | Cooling | dB(A) | 44 | 45 | 48 | 52 | 52 | 55 |
| oodiid pressure | Heating | | | | | | | |
| | | aB(A) | 46 | 47 | 50 | 54 | 54 | 57 |
| Sound power | | dB(A) | 46 62 | 47 63 | 50 66 | 54 68 | 54 69 | 57 71 |
| · | | dB(A) | 46 62 1 | 47 63 1 | 50 66 1 | 54 68 1 | 54 69 1 | 57 71 1 |
| No. of fans | Single-phase | dB(A) | 62 1 | 63 1 | 66 1 | 68 1 | 69 1 | 71 1 |
| · | Single-phase | dB(A) | 62 | 63 | 66 | 68 1 28.5 | 69 1 28.5 | 71 1 28.5 |
| No. of fans Maximum consumption | Single-phase Three-phase | dB(A) A | 62 1 13.8 | 63 1 15.8 | 66 1 17.8 | 68 1 28.5 15.5 | 69 1 28.5 15.5 | 71 1 28.5 15.5 |
| No. of fans Maximum consumption Minimum piping length | | A A m | 62 1 13.8 - 5 | 63 1 15.8 - 5 | 66 1 17.8 - 5 | 68 1 28.5 15.5 5 | 69 1 28.5 15.5 5 | 71 1 28.5 15.5 5 |
| Maximum consumption Minimum piping length Maximum piping length Maximum level difference | | dB(A) A | 62 1 13.8 | 63 1 15.8 | 66 1 17.8 | 68 1 28.5 15.5 | 69 1 28.5 15.5 | 71 1 28.5 15.5 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) | | A A m m | 62 1 13.8 - 5 50 30/20 | 63 1 15.8 - 5 50 30/20 | 66 1 17.8 - 5 50 30/20 | 68 1 28.5 15.5 5 70 30/20 | 69 1 28.5 15.5 5 75 30/20 | 71 1 28.5 15.5 5 75 30/20 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor | | A A m m | 62 1 13.8 - 5 50 30/20 | 63 1 15.8 - 5 50 30/20 DC Inverter Scroll | 66 1 17.8 - 5 50 30/20 DC Inverter Scroll | 68 1 28.5 15.5 5 70 30/20 | 69 1 28.5 15.5 5 75 30/20 DC Inverter Scroll | 71 1 28.5 15.5 5 75 30/20 DC Inverter Scroll |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge | | A A m m | 62 1 13.8 - 5 50 30/20 | 63 1 15.8 - 5 50 30/20 | 66 1 17.8 - 5 50 30/20 | 68 1 28.5 15.5 5 70 30/20 | 69 1 28.5 15.5 5 75 30/20 | 71 1 28.5 15.5 5 75 30/20 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional charge) | | A A M M M M M M M M M M M M M M M M M M | 62 1 13.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.6 (30) | 63 1 15.8 - 5 50 30/20 DC Inverter Scroll R-410A | 66 1 17.8 - 5 50 30/20 DC Inverter Scroll R-410A | 68 1 28.5 15.5 5 70 30/20 DC Inverter Scroll R-410A | 69 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A | 71 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional charge) Additional refrigerant charge | | A A M m | 62 1 13.8 - 5 50 30/20 DC Inverter Scroll R-410A | 63 1 15.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.6 (30) | 66 1 17.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.9 (20) | 68 1 28.5 15.5 5 70 30/20 DC Inverter Scroll R-410A 3.2 (30) | 69 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A 3.2 (30) | 71 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A 3.2 (30) |
| No. of fans Maximum consumption Minimum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional charge) Additional refrigerant charge Dimensions (H x W x D) | | A A M M M M M M M M M M M M M M M M M M | 62 1 13.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.6 (30) 30 600x792x300 | 63 1 15.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.6 (30) 30 600x792x300 | 66 1 17.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.9 (20) 40 600x792x300 | 68 1 28.5 15.5 5 70 30/20 DC Inverter Scroll R-410A 3.2 (30) 40 1.140x950x370 | 69 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A 3.2 (30) 60 1.140x950x370 | 71 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A 3.2 (30) 60 1.140x950x370 |
| No. of fans Maximum consumption Minimum piping length Maximum piping length Maximum level difference (highest OU/lowest OU) Compressor Refrigerant Initial refrigerant charge (length without additional charge) Additional refrigerant charge | | A A M M M M M M M M M M M M M M M M M M | 62 1 13.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.6 (30) | 63 1 15.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.6 (30) | 66 1 17.8 - 5 50 30/20 DC Inverter Scroll R-410A 1.9 (20) | 68 1 28.5 15.5 5 70 30/20 DC Inverter Scroll R-410A 3.2 (30) | 69 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A 3.2 (30) | 71 1 28.5 15.5 5 75 30/20 DC Inverter Scroll R-410A 3.2 (30) |

Compatible controls and accessories:





Remote control PC-AWR



Compact wired control

Accessories:

- Connector for input/output ports (5 pcs.) PCC- 1A
- Condensate pump:
 DUPC-63K1 compatible with RPC-1.5FSN3.
 DUPC-71K1 compatible with RPC-2.0FSN3.
 DUPC-160K1 compatible with RPC-2.5-6FSN3





Johnson Controls Hitachi Air Conditioning Conditioning Europe SAS

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