The Utopia Prime range in Twin, Triple, and Quad configurations, offers heating and air-conditioning solutions for large spaces such as stores, office floors, warehouses, and restaurants.

It allows you to manage several indoor units running on the same settings. You can connect up to 4 indoor units – different model types and different duties – to the same R32 or R410A outdoor unit. They come in the following models: 4-way cassette units, ducted units, wall units, and ceiling units.

—

Utopia Prime (Twin, Triple, Quad) R410A or R32

iF DESIGN AWARD 2020

GOOD DESIGN AWARD 2020

reddot design award

EXCLUSIVITY HITACHI

NEW

Benefits
Utopia Prime

Range overview

The R32 refrigerant has a number of advantages over the R410A refrigerant. Although both are "fluorinated greenhouse gases covered by the Kyoto Protocol," the R32 has a lower global warming potential (GWP = 675) compared to the R410A (GWP = 2088). In addition, the use of R32 reduces the refrigerant charge by 7% to 12% for the same installation with R410A. The R32 reduces its environmental impact by 75% compared to the R410a: low GWP and less charge on the system. This means it has a lower TeqCO2 equivalence, and a low load is needed to achieve better results because of its better thermodynamic characteristics. Another advantage of the R32 over the R410 is its greater ease of recovery and reuse, taking into account the fact that the installation and maintenance are very similar.

| Outdoor units	Rated cooling capacity (Hp)				Technology	Supply voltage	Connection rate range	Max. number of connected indoor units	Min. power of connected indoor units	Max. pipe length	Max. level difference between outdoor unit and indoor unit (outdoor unit above / below)	Max. level difference between indoor units	Operating ranges
	3	4	5	6									
Utopia Prime (R32 3-6 Hp) (R410A 4-6 Hp)	•	•	•	•	Mono-split TWIN TRIPLE QUAD	400V / 3 / 50Hz and 230V / 1 / 50Hz (depending on the model)	90 - 115% according to the usage	4	0.8 Hp (2 kW cooling)	From 50 to 75 m	30 m / 20 m	3 m	Heating -20° ~ 18°C WB cooling -5°C (-15°C: optional) ~46°C DB

UNIQUE! Infinite number of combinations available for R410A or R32

At 4Hp, up to 4 indoor units per outdoor unit: Option to mix unit types and their capacities on the same installation

Wall unit

Ducted units

From 2.0 to 16 kW

+ 100 models

Ceiling unit

Cassette units

Indoor units and remote controls common with the VRF outdoor systems*
(size 0.8Hp Mini-compatible; incompatible with console units)
*Refer to the section TWIN-VRF indoor units to discover the entire range
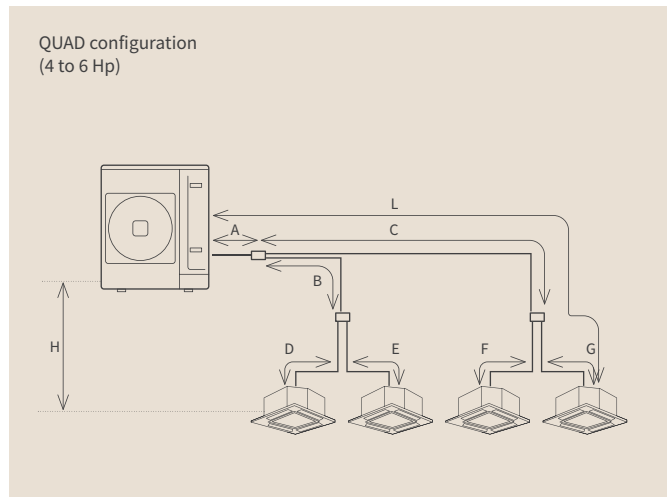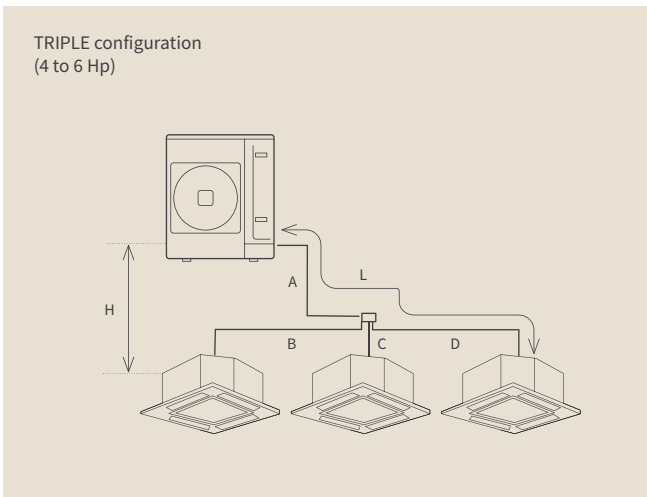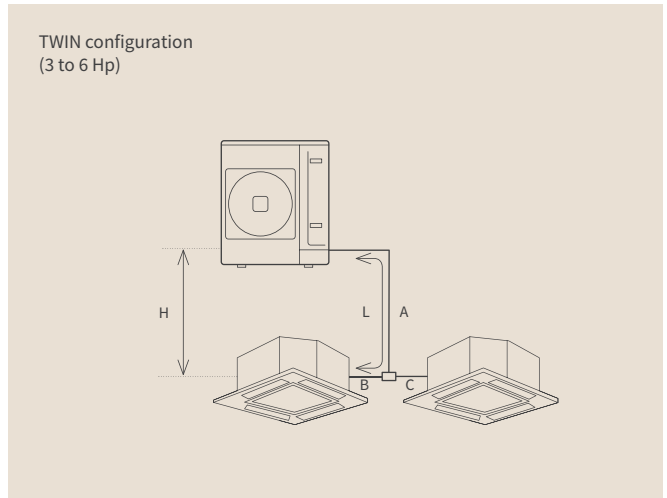
UNIQUE! Renewed master-slave control for more energy savings

Example installation

1 single Remote control

20°C

20°C

20°C

20°C

20°C
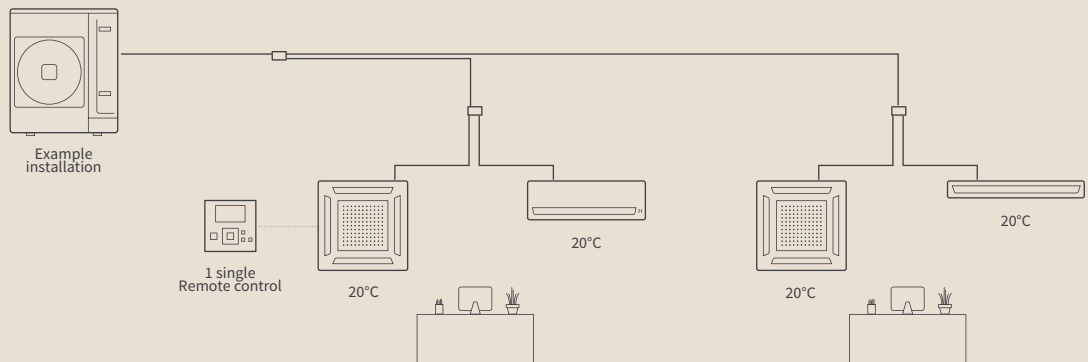
Outdoor unit Utopia Prime	Cassette unit	Wall unit	Cassette unit	Ceiling unit
Startup if All units are in Thermo ON mode	Thermo ON	Thermo ON	Thermo ON	Thermo ON
Stop if At least one unit is in Thermo OFF mode	Thermo ON	Thermo OFF	Thermo ON	Thermo ON

Installation Guide
Utopia Prime

Mono-split configuration
(3 to 6 Hp)

TWIN configuration
(3 to 6 Hp)

TRIPLE configuration
(4 to 6 Hp)

QUAD configuration
(4 to 6 Hp)
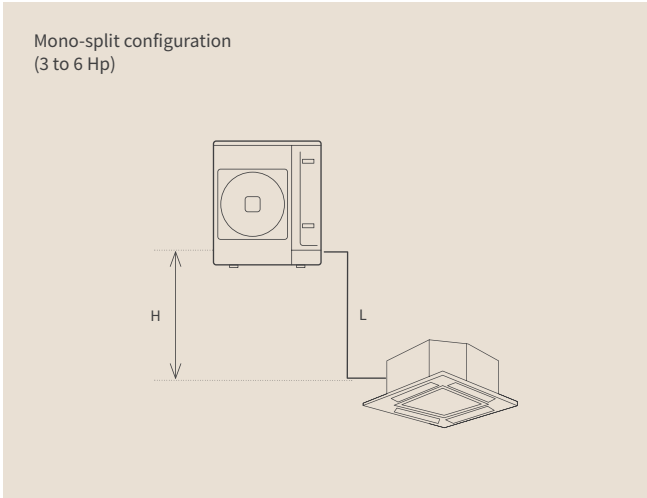
Outdoor units		3 Hp	4 Hp	5 Hp	6 Hp
Max. length between outdoor unit and the furthest indoor unit	Actual length (L)	50		75	
	Equivalent length (EL)	70		95	
Total length of the pipe	2 indoor units (A+B+C)	50		85	
	3 indoor units (A+B+C+D)	-		85	
	4 indoor units (A+B+C+D+E+F+G)	-		85	
Max. length after first branch	2 indoor units (B, C)	15		15	
	2 and 3 indoor units (B, C, D)	-		15	
	4 indoor units (B+D, B+E, C+F, C+G)	-		15	
Max. level difference of outdoor unit to indoor units (H) (outdoor unit above/below)			30 / 20		
Max. level difference of indoor units to indoor units			3		
Max. level difference of multikit to indoor units / Multikit-Multikit			3		
Max. imbalance between branches (B-C) (2 and 3 indoor units) (B-D) (3 indoor units)(C-D) (3 indoor units) (C+G)-(C+F) (4 indoor units) (B+E)-(B+D) (4 indoor units) (C+G)-(B+E) (4 indoor units) (C+G)-(B+D) (4 indoor units) (C+F)-(B+E) (4 indoor units) (C+F)-(B+D) (4 indoor units)	Example: 	< 8		< 10	

Utopia Prime

A TWIN to QUAD solution with a choice of R410A or R32
to provide heating solutions and air-conditioning for
large spaces.
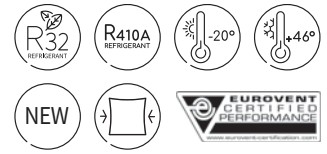
EXCLUSIVITY
HITACHI

NEW

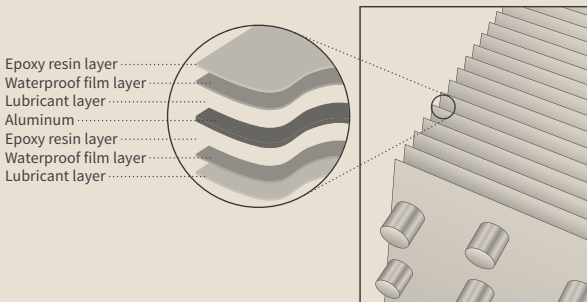## Twin and VRF shared indoor unit groups

The UTOPIA PRIME range comes with all the advantages of VRF indoor units,
so you can make use of a wide range of combinations.
Different types of indoor units can be mixed on the same installation.

Flexible installation

UNIQUE! The new range of 4 to 6Hp can come in TWIN, TRIPLE, or QUAD
configurations for R32 and R410A and has a static pressure of 30Pa. This
allows the air to be recirculated. Connect up to 4 indoor units in the Set free
range (size 0.8Hp Mini compatible; console units not compatible).

Advanced anti-corrosion treatment

With its triple coating, Utopia Prime offers the best protection on the market
for use in tough environments.

Epoxy resin layer
Waterproof film layer
Lubricant layer
Aluminum
Epoxy resin layer
Waterproof film layer
Lubricant layer

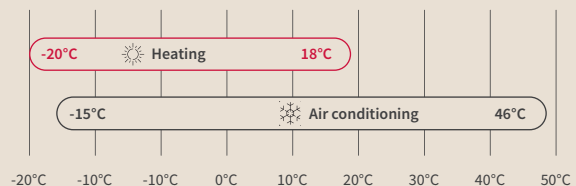## Reinvented master-slave control for more energy savings

The outdoor unit will start up only if all 4 indoor units need cooling or
heating. The shutdown of the group is triggered as soon as one of the indoor
units no longer requires heat/cooling, which promises real energy savings.

Example
installation

1 single
Remote control   20°C

20°C

20°C

20°C

20°C
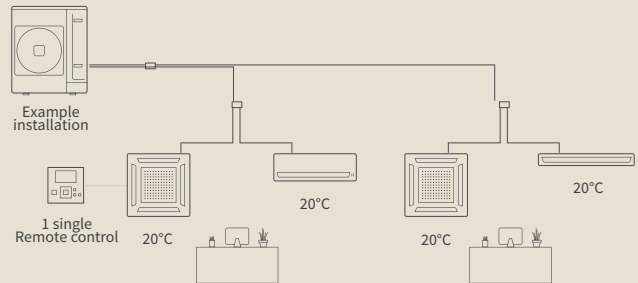
Large operating ranges

Utopia Prime will keep working in extreme temperatures: down to -20°C for
heating and -15°C to 46°C for cooling (-5°C to 46°C at 4 to 6Hp). Features that
make this a product for perfect year-round comfort.

Outside temperature operating range

-20°C   ☀ Heating   18°C

-15°C   ❄ Air conditioning   46°C

-20°C   -10°C   -10°C   0°C   10°C   20°C   30°C   40°C   50°C

Outdoor units

629
300
898
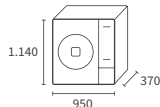
RAS-3HVRC2

1.140
950
370

RAS-4H(V)RC2E
RAS-5H(V)RC2E
RAS-6H(V)RC2E
RAS-4H(V)NC2E
RAS-5H(V)NC2E
RAS-6H(V)NC2E

Utopia Prime

			R32 REFRIGERANT				R410A REFRIGERANT	
		RAS-3HVRC2	RAS-4H(V)RC2E	RAS-5H(V)RC2E	RAS-6H(V)RC2E	RAS-4H(V)NC2E	RAS-5H(V)NC2E	RAS-6H(V)NC2E
Performance, cooling	Unit	3Hp	4Hp	5Hp	6Hp	4Hp	5Hp	6Hp
Nominal cooling capacity	kW	7.1	10.00	11.90	14.00	10.00	11.90	14.00
UK total cooling capacity	kW	7.41	10.30	12.70	13.60	10.30	12.70	13.60
Rated power input cooling	kW	1.67	2.56	3.38	4.32	2.86	3.78	4.91
EER	-	3.93	3.90	3.52	3.24	3.50	3.15	2.85
SEER (average climate)	-	7.33	6.93(V) - 6.62	6.60(V) - 6.37	7.35(V) - 7.25	6.69(V) - 6.42	6.35(V) - 6.13	7.01(V) - 6.92
Energy class (cooling)	-		A++		-	A++		-
Working range in Cooling	-		-15°C / +46°C (DB)			-15°C / +46°C (DB)		
Performance, heating								
Nominal heating capacity	kW	8.00	11.20	14.00	16.00	11.20	14.00	16.00
Rated power input heating	kW	1.94	2.65	3.52	3.64	2.60	3.52	3.64
COP	-	4.11	4.23	3.98	4.40	4.30	3.98	4.40
SCOP (average climate)	-	4.20	4.36(V) - 4.36	4.26(V) - 4.25	4.73(V) - 4.73	4.40(V) - 4.40	4.24(V) - 4.23	4.71(V) - 4.73
Energy class (heating)	-		A+		-	A+		-
Working range in Heating	-		-20°C / 18°C (WB)			-20°C / 18°C (WB)		
Technical features								
Airflow (cooling)	m³/h	2700	4800	4800	4800	4800	4800	4800
Sound pressure in cooling mode (nightmode) [1]	dB(A)	54 (48)	54 (51)	54 (51)	56 (51)	52 (50)	54 (53)	55 (53)
Sound power	dB(A)	69	70	70	72	68	69	71
Net weight	kg	48		84			84	
Dimensions (H x L x D)	mm	629 x 799 x 300		1140 x 950 x 370			1140 x 950 x 370	
Min. power of indoor unit	Hp	0.8		0.8			0.8	
Number of connectible units (min - max)	-	1 - 2		1 - 4			1 - 4	
Capacity ratio (min - max)	%	90% - 100%		90% - 115%			90% - 115%	
Compressor	-		Inverter DC rotary unit			Inverter DC rotary unit		
Refrigeration characteristics								
Max. length / Additional charge	m/g/m	50 / 45		75 / 45			75 / 60	
Initial refrigerant charge	kg	1.7		3.0			3.2	
Pre-charged for	m	20		30			30	
Min. length	m	5		5			5	
Max. level difference (outdoor unit above / below)	m	30 / 20		30 / 20			30 / 20	
Diameter of pipes (Liq / Gas)	mm inches		9.52 (3/8) - 15.88 (5/8)			9.52 (3/8) - 15.88 (5/8)		
Refrigerant	-		R32			R410A		
Electrical features								
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz			1~ 230V 50Hz or 3N~ 400V 50Hz		
Max. current	A	15.8	22.5 or 15			22.5 or 15		
Recommended fuse size	A	20	25 or 20			25 or 20		
Cable width (EN 60 335-1)*	mm²	3 x 4.00	3 x 6.00 or 5 x 4.00			3 x 6.00 or 5 x 4.00		
Indoor/outdoor connection (shielded)*	mm²	2 x 0.75	2 x 0.75			2 x 0.75		

(V) Single-phase version.
* Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.
[1] Sound levels (pressure) are measured in an anechoic chamber at 1.50 m from the floor level and 1 m from, unit's front surface.

Controls (see the tab VRF TWIN controls)

Individual controls

PC-ARFP1E (full wired)
PC-ARH1E (simple wired)
PC-AWR (Infrared)

Central controls

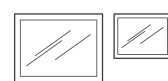PSC-A32MN (touch)
PSC-A64GT (touch)
Aircloud Pro
CSNET Lite (web)
CSNET Screenless (web)
CSNET Manager 2T10 (web and touch)
CSNET Manager 2T15 (web and touch)

Communication protocol

MODBUS
BACNET
KNX
LONWORKS

Compatible accessories

Condensation drainage kit
DDB-26 (models 4 / 5 / 6 Hp)
DDB-12L (model 3 Hp)

Remote sensor THM-R2AE

PCC-1A connectors

Exclusive to Hitachi: all our System Free indoor units are compatible with the outdoor units Sigma, Set Free Mini, VRF Centrifugal, Utopia Prime, Micro VRF IVX Prime and IVX Comfort, in VRF or Split versions. They can be operated by a wide range of remote controls, from the simplest to the most sophisticated, to meet any requirement. The option to adjust the power of these indoor units brings a unique flexibility to the market, responding to the scalability of buildings at a lower cost.

SYSTEM FREE
indoor units

SYSTEM FREE indoor units

A new range of indoor units compatible with refrigerants R32 and R410A.
FSR: R410A/R32

All our Set Free indoor units will be updated, with the exception of consoles RPF/RPFI and > 6Hp ducted units, which will remain compatible with R410A only.

4-way cassette unit

R410A REFRIGERANT · R32 REFRIGERANT · NEW · GENTLE COOL

600 X 600
RCIM-...FSRE

800 X 800
RCI-...FSR

- Available from 1.1 to 16 kW.
- 600 x 600 flush cassette unit.
- Save energy with the motion sensor (optional).
- Control each fan louvre separately.
- Up to 850 mm lift for condensate.

2-way cassette unit

R410A REFRIGERANT · R32 REFRIGERANT · NEW · GENTLE COOL

RCD-...FSR

- Available from 2.2 to 16 kW.
- Save energy with the optional motion sensor.
- Up to 850 mm lift for condensate.
- Control each louvre separately.

Ducted unit

R410A REFRIGERANT · R32 REFRIGERANT · NEW · AIR ZONE · GENTLE COOL

RPIL/RPI/RPIH-0.4~6FSRE
RPI-8~20FSN

- Available from 1.1 to 56 kW.
- Up to 850 mm lift for condensate.
- Up to 220 Pa available static pressure.

Wall unit

RPK-...FSRM

(R410A REFRIGERANT) (R32 REFRIGERANT) (NEW) (GENTLE COOL)

– Available from 1.1 to 11.2 kW.
– Optional deported electronic expansion valve.
– 4 fan speeds available.
– Integrated infrared receiver.

Console

RPF-...FSN2E

(R410A REFRIGERANT) (SYSTEM FREE)

- Available from 2.2 to 7.1 kW.
- Cased and un-cased version.
- Depth of just 220 mm.
- Integrated remote control (on cased model).

Ceiling unit

RPC-...FSR

(R410A REFRIGERANT) (R32 REFRIGERANT) (GENTLE COOL) (⌲) (NEW)

- Available from 3.8 to 16 kW.
- Air flow suitable for large premises.
- 4 fan speeds.
- Pipe connections from 3 directions.

Hydro Free

(R410A REFRIGERANT) (45°) (DHW 80°)

High-temperature
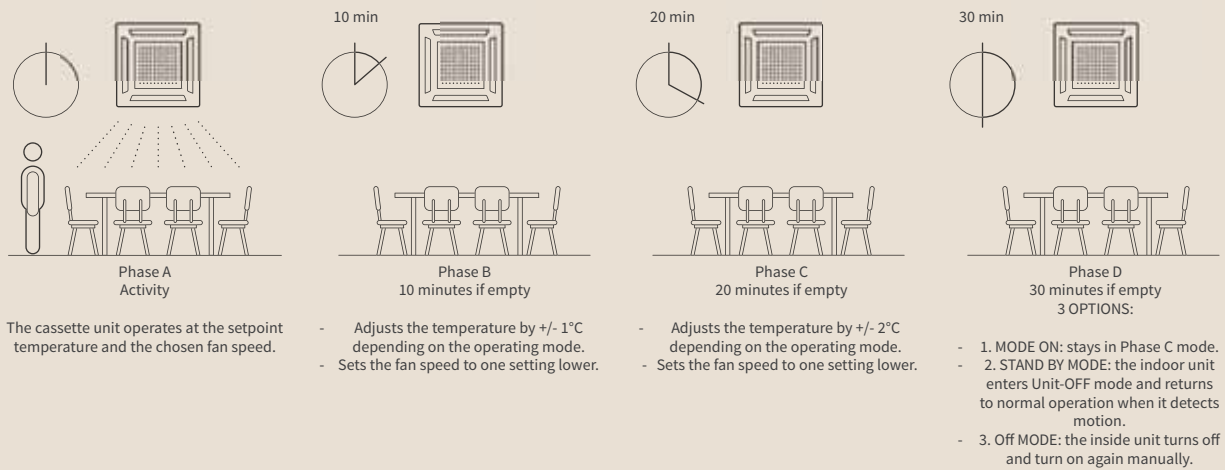RWHT-5.0VNF1E

Low-temperature
RWLT-5.0~10VN1E

- Compatible with VRF SIGMA and Set Free Mini
- Perfect for a thermodynamic DHW solution
  (high-temperature module, 80°C).
- Perfect for a water heating solution in addition
 to DX comfort (low-temperature module).

Benefits
SYSTEM FREE indoor units

1 Save energy with the motion sensor

10 min   20 min   30 min

Phase A Activity	Phase B 10 minutes if empty	Phase C 20 minutes if empty	Phase D 30 minutes if empty 3 OPTIONS:

The cassette unit operates at the setpoint temperature and the chosen fan speed.

- Adjusts the temperature by +/- 1°C depending on the operating mode.
- Sets the fan speed to one setting lower.

- Adjusts the temperature by +/- 2°C depending on the operating mode.
- Sets the fan speed to one setting lower.

- 1. MODE ON: stays in Phase C mode.
- 2. STAND BY MODE: the indoor unit enters Unit-OFF mode and returns to normal operation when it detects motion.
- 3. Off MODE: the inside unit turns off and turn on again manually.

The motion sensor regulates the indoor unit according to the number of people in the room. Achieve up to 14% energy savings by avoiding unnecessary consumption when the room is unoccupied.* Option available for: 600 x 600 cassette unit, 800 x 800 cassette unit, ducted unit, ceiling unit.

2 Perfect integration

Modular suspended ceiling 600 x 600 mm

Dimensions 4-way cassette unit

570 mm

570 mm
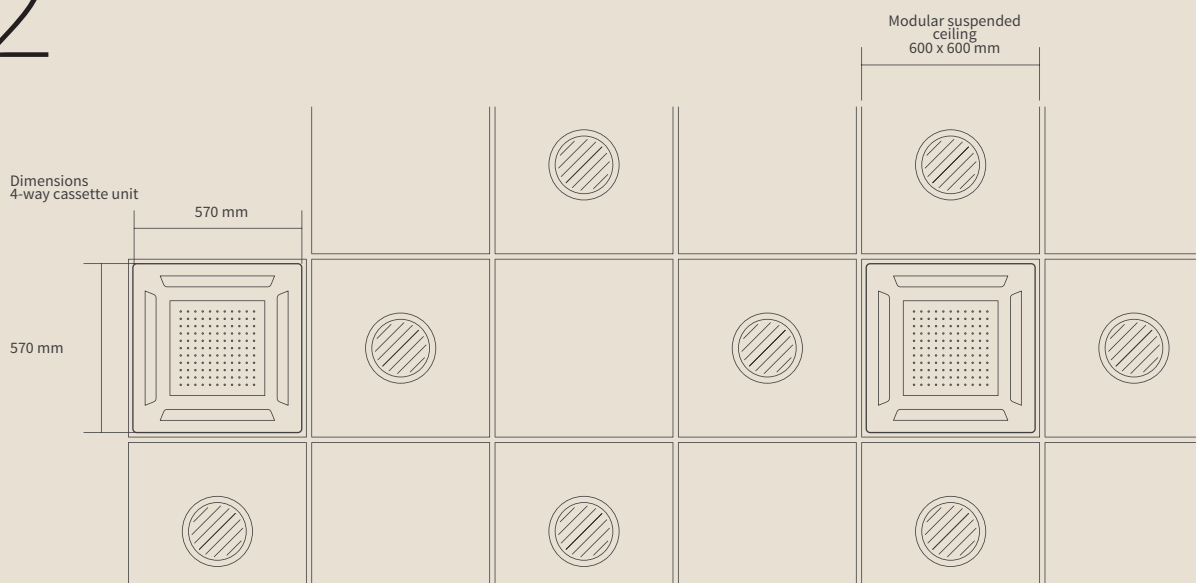
The 600x600 4-way cassette is designed to fit seamlessly into suspended ceilings.

These indoor units fit perfectly into any small space.

3 Extended height for condensate extraction

Integrated as standard on cassette and ducted units (optional on ceiling units), the extraction pump can handle as much as 850 mm of condensation. The pump automatically triggers as soon as cooling mode is selected. Self-powered condensing pump: any fault on a unit's condensing pump will not affect the rest of the system.
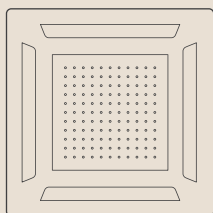
850 mm
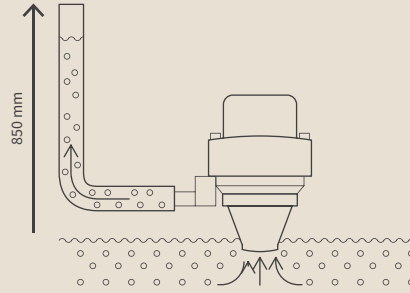
4 Low noise with the separate EEV

With indoor wall units, you can place the EEV outside of the room, significantly reducing noise levels for the best acoustic comfort.

5 Higher air flow rate

Same duty but more air flow than competitor's cassette, wall, and ducted units. Our indoor units have 4 fan speeds to adapt the airflow and ensure more comfort in any room.

6 Range compatibility

Wall unit   Ceiling unit   Ducted unit

Cassette unit   Console   Hydraulic module
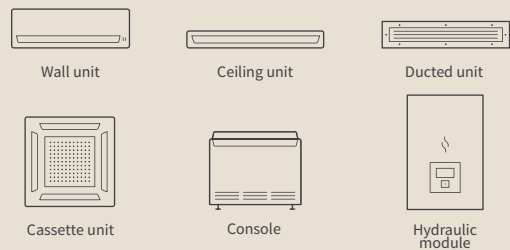
All our System Free indoor unit ranges are compatible with all our outdoor units (Set Free Sigma, Set Free Mini, Centrifugal, Utopia Prime, IVX Prime, and IVX Comfort). Hydrofree compatible with SIGMA and Set Free Mini only.

* For more information, please refer to the technical documentation.

600 x 600 4-way cassette unit

SYSTEM FREE
GENTLE COOL
0.4 HP
POWER SWITCH

R410A REFRIGERANT
R32 REFRIGERANT
NEW

Installation time

The 600 x 600 cassette unit has a compact design and flush front panel to integrate perfectly into suspended ceilings (570 x 570mm casing). In addition, it is equipped as standard with a pump to remove condensation up to 850 mm.

Low noise level

With 4 fan speeds, this 600 x 600 cassette unit is one of the most silent on the market.

Energy-saving

The motion sensor (optional) automatically optimizes the level of comfort while limiting the energy consumption in rooms only occupied occasionally.
It continuously analyzes thermal disparities as well as the presence of people in the room, adjusting its setting temperature (+/- 2°C), fan speed, and airflow direction to suit.

Unrivaled comfort

The GENTLE COOL function, accessible on the wired remote control PC-ARFP1E, adjusts the min. air off temperature. In summer, cold air drafts are avoided as you can set the air off temperature to the maximum setting.
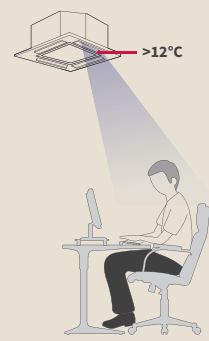
Flexibility

Our 600 x 600 cassette units have an impressive range of 1.1 to 7kW, offering flexibility like no other on the market.
You can also use the adjustable power settings to respond precisely to each project: 4 settings to choose from, with huge ranges in airflow.
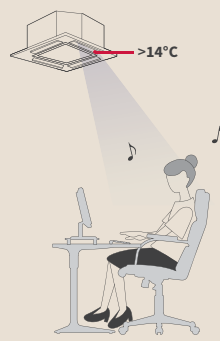

Potential for discomfort

GentleCool → No cold drafts

Ultimate comfort

>8°C
→ COLD AIR DRAFT

>12°C

>14°C

>16°C

GentleCool: OFF

GentleCool: LOW

GentleCool: MEDIUM

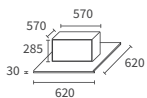**GentleCool: HIGH**

Min. Temp° control on the air off with the remote control PCARFP1E or the CSNET monitoring system

---

Indoor units

570
570
285
30
620
620

RCIM-0.4FSRE   RCIM-1.5FSRE
RCIM-0.6FSRE   RCIM-2.0FSRE
RCIM-0.8FSRE   RCIM-2.5FSRE
RCIM-1.0FSRE

600 x 600 4-way cassette

Indoor units	Unit	RCIM-0.4FSRE	RCIM-0.6FSRE	RCIM-0.8FSRE	RCIM-1.0FSRE	RCIM-1.5FSRE	RCIM-2.0FSRE	RCIM-2.5FSRE
Power (adjustable)	Hp	0.40	0.60	0.80	1	1.30 ← 1.50	1.80 ← 2.00	2.30 ← 2.50
Nominal Cooling capacity UTOPIA Prime & IVX	kW	not available		2.00	2.50	3.60	5.00	5.60
Nominal Heating capacity UTOPIA Prime & IVX	kW	not available		2.20	2.80	4.00	5.60	6.30
Nominal Cooling capacity SET FREE	kW	1.10	1.70	2.20	2.80	3.80 ← 4.00	5.20 ← 5.60	6.70 ← 7.10
Nominal Heating capacity SET FREE	kW	1.25	1.90	2.50	3.20	4.20 ← 4.80	5.60 ← 6.30	7.50 ← 8.50
Sound pressure in Cooling mode (EL/L/M/H)[1][3]	dB(A)	24.5 / 25 / 27 / 29	24.5 / 28 / 30 / 34	24.5 / 29 / 33 / 36	24.5 / 30 / 34 / 38	27.5 / 33 / 37 / 41	31 / 35 / 39 / 45	35 / 39 / 43 / 47
Sound power	dB(A)	43	47	50	51	54	56	60
Airflow in Cooling mode (EL/L/M/H)[4]	m³/h	360 / 414 / 468 / 510	360 / 450 / 510 / 600	360 / 480 / 570 / 660	360 / 510 / 600 / 720	420 / 570 / 660 / 780	480 / 600 / 720 / 900	600 / 720 / 840 / 960
Condensate pump	-	Yes						
Max. elevation	mm	850						
Diameter of pipes (Liq / Gas)	inches	1/4 - 1/2					3/8 - 5/8	
Condensate outlet diameter (ext.)	mm	32						
Dimensions (H x W x D)	mm	285 x 570 x 570						
Fascia panel dimensions (H x W x D)	mm	30 x 620 x 620						
Weight of the unit + fascia panel	kg	16 + 2.50					17 + 2.50	
Power supply	-	1 ~ 230V 50Hz						
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75						
Recommended fuse size	A	5						
Part number of the front panel	-	**P-AP56NAM**						

[1] Sound pressure is measured under the following conditions: 1.50 m below the unit.
[2] Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.
[3] High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.
[4] Very low speed is available in Thermo-off mode.

You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see the tab VRF TWIN Controls)

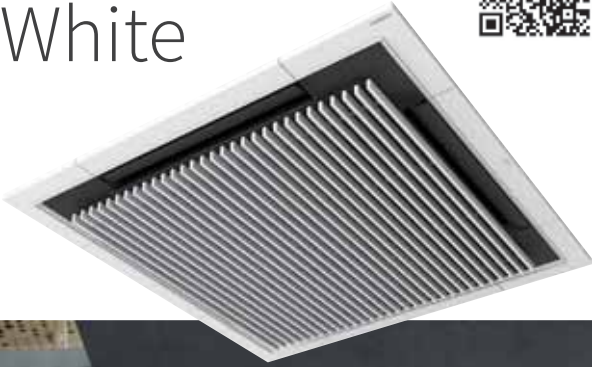|	
Simple wired controller PC-ARH1E	**Infrared controller** PC-AWR	**Hard wired control** PC-ARFP1E (PC-ARFG-E available in 2022)
Remote sensor THM-R2AE	**Infrared receiver** PC-ALHC1 (integrated) / PC-ALHZ1 (external)	**Multi-tenant card** PC-AMTB
Motion sensor SOR-NEC	**Connectors** PCC-1A	**Fresh air kit** PD-75C

Silent-Iconic fascia panel for cassette unit 800x800

NEW

Design White

Design Black

Discover Silent-Iconic

Features

A design that fits perfectly into any space
Designed to harmonize with the room – the shutter-like intake flaps are placed centrally and the fan blades are darkened to complete the discrete look.
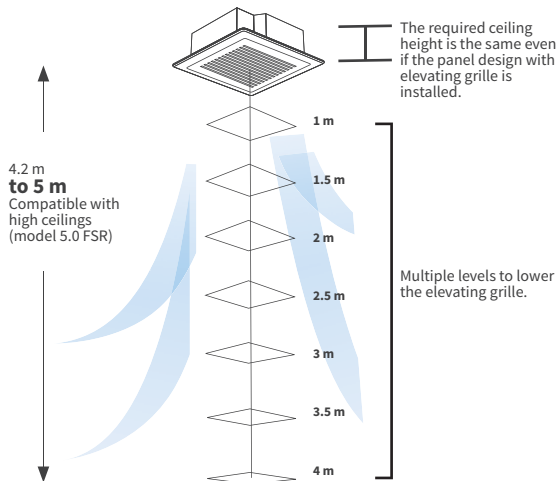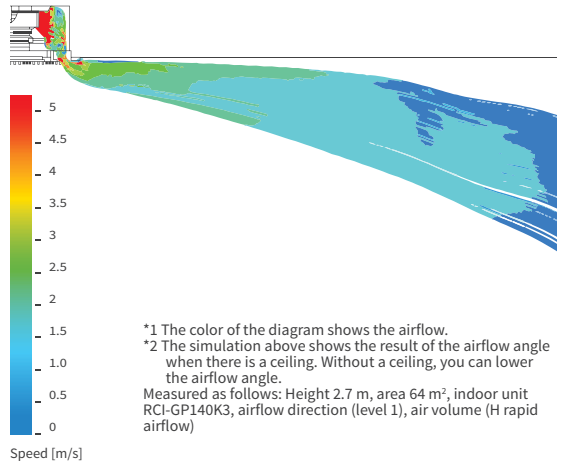
Concealed fan blades

Air extraction grid

Easy-clean filter
The "fascia panel design with elevating grille" makes it easy to clean the filter. The lowering distance can reach 4 m, and the Silent-Iconic fascia panel can be installed in buildings with a high suspended ceiling heights.

The required ceiling height is the same even if the panel design with elevating grille is installed.

4.2 m
to 5 m
Compatible with high ceilings (model 5.0 FSR)

1 m
1.5 m
2 m
2.5 m
3 m
3.5 m
4 m

Multiple levels to lower the elevating grille.

Guaranteed ease-of-use
The all-new fascia panel louvre design and air outflow shape enhance the Coanda effect, which significantly improves user comfort by avoiding the direct impact of cold air circulation.

5
4.5
4
3.5
3
2.5
2
1.5
1.0
0.5
0

Speed [m/s]

*1 The color of the diagram shows the airflow.
*2 The simulation above shows the result of the airflow angle when there is a ceiling. Without a ceiling, you can lower the airflow angle.
Measured as follows: Height 2.7 m, area 64 m^2, indoor unit RCI-GP140K3, airflow direction (level 1), air volume (H rapid airflow)

Easy-to-install front panels
Sliding edges make installation easier – just add the screws.
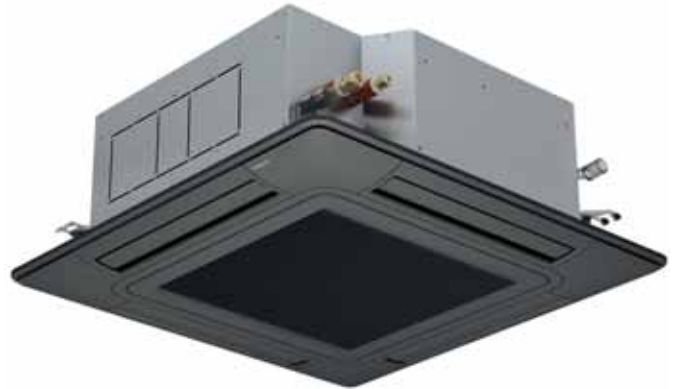
Designed to align with the ceiling surface
The small gap between the fascia panel and the ceiling gives a visual effect of "lightness" and blends in with the ceiling.

800 x 800 4-way cassette unit

SYSTEM FREE

GENTLE COOL

POWER SWITCH

R410A REFRIGERANT

R32 REFRIGERANT

NEW

Standard White front panel

Standard Black front panel

Installation time

The 800 x 800 cassette unit fits perfectly into suspended ceilings thanks to its low recess height (248 mm) as well as in high ceilings with a possible installation of up to 4.20 m, depending on the model. In addition, it is equipped as standard with a pump to remove condensation up to 850 mm.

Unrivaled comfort

The GENTLE COOL function, accessible on the wired remote control PC-ARFP1E, adjusts the min. air off temperature.

In summer, cold air drafts are avoided as you can set the air off temperature to the maximum setting.

Energy-saving

The motion sensor (optional) automatically optimizes the level of comfort while limiting the energy consumption in rooms only occupied occasionally.
It continuously analyzes thermal disparities as well as the presence of people in the room, adjusting its setting temperature (+/- 2°C), fan speed, and airflow direction to suit.

Flexibility

Our 800 x 800 cassette units have an impressive range of 2.8 to 16 kW, offering flexibility like no other on the market.
You can also use the adjustable power settings to respond precisely to each project: 4 settings to choose from, with huge ranges in airflow.

Potential for discomfort

GentleCool → No cold drafts

Ultimate comfort

>8°C → COLD DRAFT

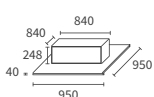GentleCool: OFF

>12°C

GentleCool: LOW

>14°C

GentleCool: MEDIUM

>16°C

GentleCool: HIGH

Min. Temp° control of the air off with the remote control PC-ARFP1E or the CSNET monitoring system

---

Indoor units

840
840
248
40
950
950

RCI-1.0FSR
RCI-1.5FSR
RCI-2.0FSR
RCI-2.5FSR

840
840
298
40
950
950
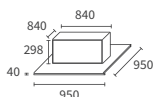
RCI-3.0FSR
RCI-4.0FSR
RCI-5.0FSR
RCI-6.0FSR

800 x 800 4-way cassette

Indoor units	Unit	RCI-1.0FSR	RCI-1.5FSR	RCI-2.0FSR	RCI-2.5FSR	RCI-3.0FSR	RCI-4.0FSR	RCI-5.0FSR	RCI-6.0FSR
Power (adjustable)	Hp	1.00	1.30 ← 1.50	1.80 ← 2.00	2.30 ← 2.50	3.00	4.00	5.00	6.00
Nominal Cooling capacity UTOPIA Prime & IVX	kW	2.50	3.60	5.00	5.60	7.10	10.00	12.50	14.00
Nominal Heating capacity UTOPIA Prime & IVX	kW	2.80	4.00	5.60	6.30	8.00	11.20	14.00	16.00
Nominal Cooling capacity SET FREE	kW	2.80	3.80 ← 4.00	5.20 ← 5.60	6.70 ← 7.10	8.00	11.20	14.00	16.00
Nominal Heating capacity SET FREE	kW	3.20	4.20 ← 4.80	5.60 ← 6.30	7.50 ← 8.50	9.00	12.50	16.00	18.00
Sound pressure in Cooling mode (EL/L/M/H)[1][3]	dB(A)	27 / 28 / 30 / 33	27 / 30 / 31 / 35	27 / 30 / 32 / 37	28 / 32 / 36 / 42		33 / 39 / 43 / 48	35 / 40 / 45 / 48	37 / 41 / 46 / 48
Sound power	dB(A)	52	53	55	56	57	64	64	65
Airflow in Cooling mode (EL/L/M/H)[4]	m³/h	540 / 660 / 780 / 900	660 / 840 / 1020 / 1260	660 / 840 / 1020 / 1320	840 / 1080 / 1380 / 1620	840 / 1080 / 1380 / 1620	1200 / 1440 / 1860 / 2220	1260 / 1560 / 1980 / 2220	1320 / 1680 / 2100 / 2220
Condensate pump	-				Yes				
Max. elevation	mm				850				
Diameter of pipes (Liq / Gas)	inches		1/4 - 1/2			3/8 - 5/8			
Condensate outlet diameter (ext.)	mm				32				
Dimensions (H x W x D)	mm			248 x 840 x 840			298 x 840 x 840		
Fascia panel dimensions (H x W x D)	mm				40 x 950 x 950				
Weight of the unit + fascia panel	kg	20 + 6.50	21 + 6.50	22 + 6.50		26 + 6.50			
Power supply	-				1 ~ 230V 50Hz				
Cable width (EN 60 335-1) [2]	mm²				3 x 0.75				
Recommended fuse size	A				5				
Part number for standard White front panel (Black)	-				**P-N23NA2 (P-AP160KA3)**				

[1] Sound pressure is measured under the following conditions: 1.50 m below the unit.
[2] Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.
[3] High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.
[4] Very low speed is available in Thermo-off mode.

Silent-Iconic front panel

	Natural White		Black
Type of fascia panel	White fascia panel design	White fascia panel design with self-elevating grille	Black fascia panel design
Part number	**P-GP160NAP**	**P-GP160NAPU**	**P-GP160KAP**
Dimensions (H x L x D)		52 x 950 x 950 mm	

Fascia panel lift	**d7**	01	02	03	04	05	06	07
Control lowering on wired remote control PC-ARFP1E	Lowers in 7 stages	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m	3.5 m	4.0 m

You can have multiple contacts with the connector PCC-1A : progress report, error report, thermostat control, remote "Start/Stop".

Controles and compatible accessories (see the tab VRF TWIN Controls)

Simple wired controller	Infrared controller	Hard wired remote	Fresh air kit
PC-ARH1E	PC-AWR	PC-ARFP1E (PC-ARFG-E available in 2022)	PD-75A

Remote sensor	Infrared receiver	Multi-tenant card	
THM-R2AE	PC-ALH3 (integrated) PC-ALHZ1 (external)	PC-AMTB	

Motion sensor	Connectors	Remote blower connection kit	
PS-MSK2	PCC-1A	PDF-71C1 / PDF-160C1	

2-way cassette unit

SYSTEM FREE

GENTLE COOL

POWER SWITCH

R410A REFRIGERANT

R32 REFRIGERANT

NEW

Unrivaled comfort

The GENTLE COOL function, accessible on the wired remote control PCARFP1E, adjusts the min. air off temperature. In summer, cold air drafts are avoided as you can set the air off temperature to the maximum setting.

Stand-out solution

Our choice of 2-way cassettes, ranging from 2.2 to 16 kW, is the perfect solution for larger rectangular spaces.
You can also use the adjustable power settings to respond precisely to each project.

Installation time

This unit is easy to install thanks to its light weight (23 kg) and the lift pump (850 mm) built-in as standard.

Energy-saving

The motion sensor (optional) automatically optimizes the level of comfort while limiting the energy consumption in rooms only occupied occasionally. It continuously analyzes thermal disparities as well as the presence of people in the room, adjusting its setting temperature (down to 2°C), fan speed, and airflow direction to suit.

Potential for discomfort
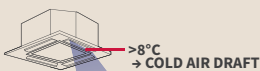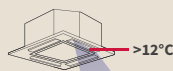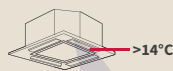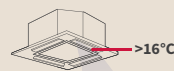
GentleCool → **No cold drafts**

Ultimate comfort

>8°C → COLD AIR DRAFT

>12°C

>14°C

>16°C

GentleCool: OFF

GentleCool: LOW

GentleCool: MEDIUM

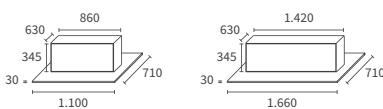**GentleCool: HIGH**

Min. Temp° control of the air off with the remote control PC-ARFP1E or the CSNET monitoring system

Indoor units

630 · 860 · 345 · 30 · 710 · 1.100

630 · 1.420 · 345 · 30 · 710 · 1.660

RCD-0.8FSR
RCD-1.0FSR
RCD-1.5FSR
RCD-2.0FSR
RCD-2.5FSR
RCD-3.0FSR

RCD-4.0FSR
RCD-5.0FSR
RCD-6.0FSR

2-way cassette unit

Indoor units	Unit	RCD-0.8FSR	RCD-1.0FSR	RCD-1.5FSR	RCD-2.0FSR	RCD-2.5FSR	RCD-3.0FSR	RCD-4.0FSR	RCD-5.0FSR	RCD-6.0FSR
Power (adjustable)	Hp	0.80	1.00	1.30 → 1.50	1.80 → 2.00	2.30 → 2.50	3.00	4.00	5.00	6.00
Nominal Cooling capacity UTOPIA Prime & IVX	kW	2.00	2.50	3.60	5.00	5.60	7.10	10.00	12.50	14.00
Nominal Heating capacity UTOPIA Prime & IVX	kW	2.20	2.80	4.00	5.60	6.30	8.00	11.20	14.00	16.00
Nominal Cooling capacity SET FREE	kW	2.20	2.80	3.80 ← 4.00	5.20 ← 5.60	6.70 → 7.10	8.00	11.20	14.00	16.00
Nominal Heating capacity SET FREE	kW	2.50	3.20	4.20 ← 4.80	5.60 ← 6.30	7.50 → 8.50	9.00	12.50	16.00	18.00
Sound pressure in Cooling mode (EL/L/M/H)[1][3]	dB(A)	27 / 28 / 29 / 30	27 / 28 / 29 / 31	30 / 31 / 34 / 37	30 / 33 / 36 / 39	33 / 36 / 39 / 42	33 / 38 / 42 / 45	34 / 37 / 40 / 43	35 / 41 / 44 / 47	39 / 42 / 45 / 48
Sound power	dB(A)	45	48	51	52	55	58	57	60	61
Airflow in Cooling mode (EL/L/M/H)[4]	m³/h	390 / 450 / 540 / 600	420 / 510 / 570 / 660	600 / 690 / 780 / 900	630 / 750 / 870 / 990	750 / 870 / 990 / 1110	750 / 960 / 1110 / 1260	1200 / 1380 / 1590 / 1800	1260 / 1620 / 1860 / 2100	1440 / 1710 / 1950 / 2220
Condensate pump	-	yes								
Max. elevation	mm	850								
Diameter of pipes (Liq / Gas)	inches	1/4 - 1/2				3/8 - 5/8				
Condensate outlet diameter (ext.)	mm	32								
Dimensions (H x W x D)	mm	345 x 860 x 630					345 x 1420 x 630			
Fascia panel dimensions (H x W x D)	mm	30 x 1100 x 710					30 x 1660 x 710			
Weight of the unit + fascia panel	kg	23 + 7.50		25 + 7.50			39 +10.50			
Power supply	-	1~ 230V 50Hz								
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75								
Recommended fuse size	A	5								
Part number of the fascia panel	-	P-AP90DNA					P-AP160DNA			

(1) Sound levels (pressure) are measured in an anechoic chamber at 1.50 m under the unit.
(2) Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility.
(3) High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.
(4) Very low speed is available in Thermo-off mode.

You can have multiple contacts with the connector PCC-1A : progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see the tab VRF TWIN Controls)

	Simple wired controller		Infrared controller		Hard wired controller
	PC-ARH1E		PC-AWR		PC-ARFP1E (PC-ARFG-E available in 2022)
	Remote sensor		Infrared receiver		Multi-tenant card
	THM-R2AE		PC-ALHD1 (integrated) / PC-ALHZ1 (external)		PC-AMTB
	Motion sensor		Connectors		Fresh air kit
	SOR-NED		PCC-1A		PD-150D

Ducted unit

SYSTEM FREE GENTLE COOL POWER SWITCH R32 REFRIGERANT

0.4 HP AIR ZONE R410A REFRIGERANT NEW

GENTLE COOL air off temperature setting for ultimate comfort

The GENTLE COOL air off temperature setting, accessible on the wired remote control PC-ARFP1E, adjusts the min. air off temperature. There is minimal risk of condensation forming, which improves the air quality. It also stops any summer drafts.

Flexible installation

Our new ducted units offer greater flexibility when it comes to installation. The electrical box can be moved. The 100Pa model has rear pipework connections so it can easily fit into small spaces, and the pump can be disconnected onsite.

Easy maintenance

Up to 850 mm lift for condensate. Filter is accessible from below or the side (0.4 to 6 hp).

Compatible with Airzone solution

Thanks to its partnership with Airzone, Hitachi is able to offer you precision step-by-step temperature control.

30% fresh air supply

All Hitachi ducted units can work on 30% fresh air to provide the best quality and cleanest air.

Available in sizes 45 and 56 kW

The most extensive range on the market, from 1.1kW to 56 kW.

EXCLUSIVE

Slim ducted unit 100 Pa 1.1 to 4 kW

- Integrated and removable condensate pump.
- Filter accessible from below or from the right side.
- Low-height: 197 mm.
- Pipe connections from the rear.
- Electric box (can be moved)
- Air return from the rear or from below (optional).

Ducted unit 150 Pa 4 to 16 kW

- Condensate pump included.
- Air retrun from the rear or below (optional).
- Optional motion sensor.
- Height: 240 mm.
- Electric box (can be moved, sizes 1.5 and 2 hp).
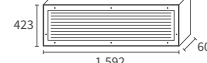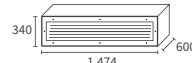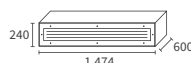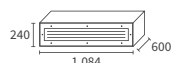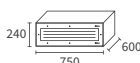- Filter accessible from below or from the left or right side.

Ducted unit 200 Pa 11 to 16 kW

- Condensate lift pump included.
- Air retrun from the rear.
- Filter accessible from below or from the left or right side.

High-Pressure High-Capacity ducted unit 22 to 56 kW

- Up to 220 Pa available static pressure.
- Sizes 8, 10, 16 and 20 hp.

Indoor units

197 / 750 / 600	240 / 750 / 600	240 / 1.084 / 600	240 / 1.474 / 600	340 / 1.474 / 600	423 / 1.592 / 600	846 / 1.592 / 600
RPIL-0.4FSRE RPIL-0.6FSRE RPIL-0.8FSRE RPIL-1.0FSRE RPIL-1.5FSRE	RPI-1.5FSRE RPI-2.0FSRE	RPI-2.5FSRE RPI-3.0FSRE	RPI-4.0FSRE RPI-5.0FSRE RPI-6.0FSRE	RPIH-4.0FSRE RPIH-5.0FSRE RPIH-6.0FSRE	RPI-8.0FSN3E(-f) RPI-10.0FSN3E(-f)	RPI-16.0FSN3PE RPI-20.0FSN3PE

Slim ducted unit, height 197mm (up to 100 Pa available pressure)

Indoor units	Unit	RPIL-0.4FSRE	RPIL-0.6FSRE	RPIL-0.8FSRE	RPIL-1.0FSRE	RPIL-1.5FSRE
Power (adjustable)	Hp	0.40	0.60	0.80	1.00	1.30 ← 1.50
Nominal Cooling capacity UTOPIA Prime & IVX	kW	not available	not available	2.00	2.50	3.60
Nominal Heating capacity UTOPIA Prime & IVX	kW	not available	not available	2.20	2.80	4.00
Nominal Cooling capacity SET FREE	kW	1.10	1.70	2.20	2.80	3.80 ← 4.00
Nominal Heating capacity SET FREE	kW	1.30	1.90	2.50	3.20	4.20 ← 4.80
Sound pressure in Cooling mode (L / M / H) [1][3]	dB(A)	22 / 23 / 24	23 / 25 / 27	23 / 25 / 28		25 / 28 / 30
Sound power	dB(A)	48	51	52		53
Airflow in Cooling mode (L / M / H) (SP02) [4]	m³/h	300 / 330 / 360	330 / 390 / 438	342 / 390 / 462		390 / 474 / 528
Rated static pressure (min-max)	Pa	15 (0~100)			25 (0~100)	
Condensate pump	-	yes (can be removed to use a gravity drain kit)				
Max. elevation	mm	850				
Diameter of pipes (Liq / Gas)	inches	1/4 - 1/2				
Condensate outlet diameter (ext)	mm	32				
Dimensions (H x L x D)	mm	197 x 750 x 600				
Weight	kg	23				
Power supply	-	1~ 230V 50Hz				
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75				
Recommended fuse size	A	5				

Compact ducted unit (up to 150 Pa available pressure)

Indoor units	Unit	RPI-1.5FSRE	RPI-2.0FSRE	RPI-2.5FSRE	RPI-3.0FSRE	RPI-4.0FSRE	RPI-5.0FSRE	RPI-6.0FSRE
Power (adjustable)	Hp	1.30 ← 1.50	1.80 ← 2.00	2.30 ← 2.50	3.00	4.00	5.00	6.00
Nominal Cooling capacity UTOPIA Prime & IVX	kW	3.60	5.00	5.60	7.10	10.00	12.50	14.00
Nominal Heating capacity UTOPIA Prime & IVX	kW	4.00	5.60	6.30	8.00	11.20	14.00	16.00
Nominal Cooling capacity SET FREE	kW	3.80 ← 4.00	5.20 ← 5.60	6.70 ← 7.10	8.00	11.20	14.00	16.00
Nominal Heating capacity SET FREE	kW	4.20 ← 4.80	5.60 ← 6.30	7.50 ← 8.50	9.00	12.50	16.00	18.00
Sound pressure in Cooling mode (L / M / H) [1][3]	dB(A)	29 / 30 / 32	29 / 30 / 32	30 / 32 / 34	31 / 33 / 35	35 / 38 / 39	36 / 38 / 40	36 / 38 / 40
Sound power	dB(A)	55	58	57	59	62	64	64
Airflow in Cooling mode (L / M / H) (SP02) [4]	m³/h	600 / 690 / 840	630 / 720 / 840	900 / 1020 / 1200	960 / 1140 / 1290	1680 / 2070 / 2160	1920 / 2100 / 2220	1950 / 2130 / 2250
Rated static pressure (min-max)	Pa	25 (0~150)			37 (0~150)		50 (0~150)	
Condensate pump	-	yes						
Max. elevation	mm	850						
Diameter of pipes (Liq / Gas)	inches	1/4 - 5/8		3/8 - 5/8				
Condensate outlet diameter (ext)	mm	32						
Dimensions (H x L x D)	mm	240 x 750 x 600		240 x 1084 x 600		240 x 1474 x 600		
Weight	kg	26		32		42		
Power supply	-	1~ 230V 50Hz						
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75						
Recommended fuse size	A	5						

High-Pressure ducted unit (up to 200 Pa available pressure)

Indoor units	Unit	RPIH-4.0FSRE	RPIH-5.0FSRE	RPIH-6.0FSRE
Power (adjustable)	Hp	4.00	5.00	6.00
Nominal Cooling capacity UTOPIA Prime & IVX	kW	10.00	12.50	14.00
Nominal Heating capacity UTOPIA Prime & IVX	kW	11.20	14.00	16.00
Nominal Cooling capacity SET FREE	kW	11.20	14.00	16.00
Nominal Heating capacity SET FREE	kW	12.50	16.00	18.00
Sound pressure in Cooling mode (L / M / H) [1][3]	dB(A)	35 / 38 / 39	36 / 38 / 40	36 / 38 / 40
Sound power	dB(A)	62	64	64
Airflow in Cooling mode (L / M / H) (SP00) [4]	m³/h	1740 / 1890 / 2100	2160 / 2040 / 2160	1920 / 2040 / 2160
Rated static pressure (min-max)	Pa	155 (0~200)		
Condensate pump	-	yes		
Max. elevation	mm	850		
Diameter of pipes (Liq / Gas)	inches	3/8 - 5/8		
Condensate outlet diameter (ext)	mm	32		
Dimensions (H x L x D)	mm	340 x 1474 x 600		
Weight	kg	44		
Power supply	-	1~ 230V 50Hz		
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75		
Recommended fuse size	A	5		

[1] Sound levels (pressure) are measured in an anechoic chamber at 1.50 m under the unit (without a ceiling under the unit), with an extraction duct at 1 m and discharge duct at 2 m.
[2] Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility.
[3] Ultra high-speed access is possible with remote controls PC-ARFP1E (or PC-ARFG-E available second half of 2021) and PC-ARH1E.
[4] SP: external static pressure (defined with the optional function "C5" on the remote control: 00: standard, 01: external static high-pressure, 02: external static low-pressure).

High-Capacity ducted unit (up to 220 Pa available pressure)
# (sizes 16 and 20 hp: unique on the market)

Indoor units	Unit	High-pressure		High-power	
		RPI-8.0FSN3E	RPI-10.0FSN3E	RPI-16.0FSN3PE	RPI-20.0FSN3PE
Power (adjustable)	Hp	8.00	10.00	16.00	20.00
Nominal Cooling capacity Micro VRF IVX COMFORT	kW	20.00	25.00	40.00	50.00
Nominal Heating capacity Micro VRF IVX COMFORT	kW	22.40	28.00	44.80	56.00
Nominal Cooling capacity SET FREE	kW	22.40	28.00	45.00	56.00
Nominal Heating capacity SET FREE	kW	25.00	31.00	50.00	63.00
Sound pressure in Cooling mode (L / M / H) [1][3]	dB(A)	51 / 54 / 54	52 / 55 / 55	53 / - / 56	54 / - / 57
Sound power	dB(A)	77	78	79	80
Airflow in Cooling mode (L/M/H)	m³/h	3570 / 3960 / 3960	4056 / 4500 / 4500	7200 / - / 7920	8220 / - / 9000
Rated static pressure (min-max)	Pa	200 (180 - 220)		180 (220)	
Dehumidification	l/h	7.70	8.80	15.00	17.00
Condensate pump	-	no			
Diameter of pipes (Liq / Gas)	inches	3/8 - 3/4	3/8 - 7/8	2 x 3/8 - 3/4 (requires a E-162SN4)	2 x 3/8 - 7/8 (requires a E-242SN3)
Condensate outlet diameter (ext)	mm	25		2 x 25	
Dimensions (H x L x D)	mm	423 x 1592 x 600		846 x 1592 x 600	
Weight	kg	85	87	171	175
Power supply	-	1~ 230V 50Hz			
Cable width (EN 60 335-1) [2]	mm²	3 x 2.50		2 x (3 x 2.50)	
Recommended fuse size	A	10		25	

(1) Sound pressure is measured under the following conditions: at 1.50 m below the unit (no ceiling under the unit), with an extraction duct at 1 m and a discharge duct at 2 m.
(2) Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.
(3) High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.

Plenums (stand-alone)
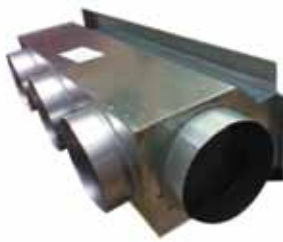
Type of Plenum	Number of outputs / diameter (mm)	Part number	Compatibility
Supply and return air	2 / Ø 200	PL-RPIL-FSRE	RPIL-0.4~1.5FSRE
Supply and return air	3 / Ø 200	PL-RPI1.5/2FSRE	RPI-1.5~2.0FSRE
Supply and return air	5 / 3 / Ø 200	PL-RPI2.5/3FSRE	RPI-2.5~3.0FSRE
Supply and return air	5 / 4 / Ø 200	PL-RPI4-6FSRE	RPI-4.0~6.0FSRE

You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see the tab VRF TWIN Controls)

Simple wired controller
PC-ARH1E

Infrared controller
PC-AWR

Hard wired controller
PC-ARFP1E
(PC-ARFG-E available in 2022)

Motion sensor
All sizes of ducted units
SOR-MSK

Remote sensor
THM-R2AE

Infrared receiver
PC-ALHZ1 (external)

Multi-tenant card
PC-AMTB

Connectors
PCC-1A

Gravitational condensation unit connection kit
D-DGK15R

Kit air return from below
D-ICA15R → RPIL (100 Pa)
D-ICA20R → RPI 1.5 to 2.0 hp (150 Pa)
D-ICA30R → RPI 2.5 to 3.0 hp (150 Pa)
D-ICA60R → RPI 4.0 to 6.0 hp (150 Pa)

Compatibility table: airzone plenum with ducted units RPIL and RPI

STANDARD

Height 300 mm, with fresh-air intake, air outlet 200 mm in diameter

MEDIUM

Height 250 mm, without fresh-air intake, air outlet 200 mm in diameter

SLIM

Height 210 mm, with fresh-air intake, air outlet 150 mm in diameter

		Supply air plenum	2 air outlets	3 air outlets	4 air outlets	5 air outlets	6 air outlets	Return air plenum
RPIL-FSRE	1.0-1.5 (750 x 197 mm)	Slim	-	AZEZ6HITSL08L3	AZEZ6HITSL08L4	AZEZ6HITSL08L5	-	AZCEZHIPR08XS
		Medium	AZEZ6HITBS08XS2	AZEZ6HITBS08XS3	-	-	-	
RPI-FSRE	1.5-2.0 (750 x 240 mm)	Standard	AZEZ6HITST08S2	AZEZ6HITST08S3	AZEZ6HITST08S4	-	-	AZCEZHIPR08S
		Medium	AZEZ6HITBS08S2	AZEZ6HITBS08S3	AZEZ6HITBS08S4	-	-	
	2.5-3.0 (1084 x 240 mm)	Standard	-	AZEZ6HITST08M 3	AZEZ6HITST08M4	AZEZ6HITST08M5	AZEZ6HITST08M6	AZCEZHIPR08M
		Medium	-	AZEZ6HITBS08M 3	AZEZ6HITBS08M4	AZEZ6HITBS08M5	AZEZ6HITBS08M6	
	4.0-5.0-6.0 (1474 x 240 mm)	Standard	-	-	-	AZEZ6HITST08L5	AZEZ6HITST08L6	AZCEZHIPR08L
		Medium	-	-	-	AZEZ6HITBS08L5	AZEZ6HITBS08L6	

Connected and intuitive interfaces

Airzone Blueface Thermostat

Wired connection / 3.5" touchscreen: Configurable as a general thermostat or by zone. A number of features and settings, ideal for ultimate control of your entire system, for more efficient and responsible heating. End-to-end, intuitive interface. Eco-adapt and standby function for tangible energy saving. Control the temperature, mode, and fan speed. Weekly programming. Access to weather forecasts (with Airzone Cloud webserver login) to anticipate changes in temperature.

Airzone Think thermostat

Wired or wireless connection / 2.7" screen: Configurable as a general thermostat or by zone. Low-energy device that makes it easy to reduce energy costs. Stylish and intuitive interface. Control the temperature, mode, and fan speed. Access to weather forecasts (with Airzone Cloud webserver login) to anticipate changes in temperature.

Thermostat Airzone Lite

Wired or wireless connection: In systems with the Blueface thermostat, this solution is perfect for quick access to essential functions. Its modern and fun interface makes it easier to use, with colors indicating the mode and temperature of the area. Start/Stop function. Control the setting temperature in increments of 1°C with a scope of ±3°C.
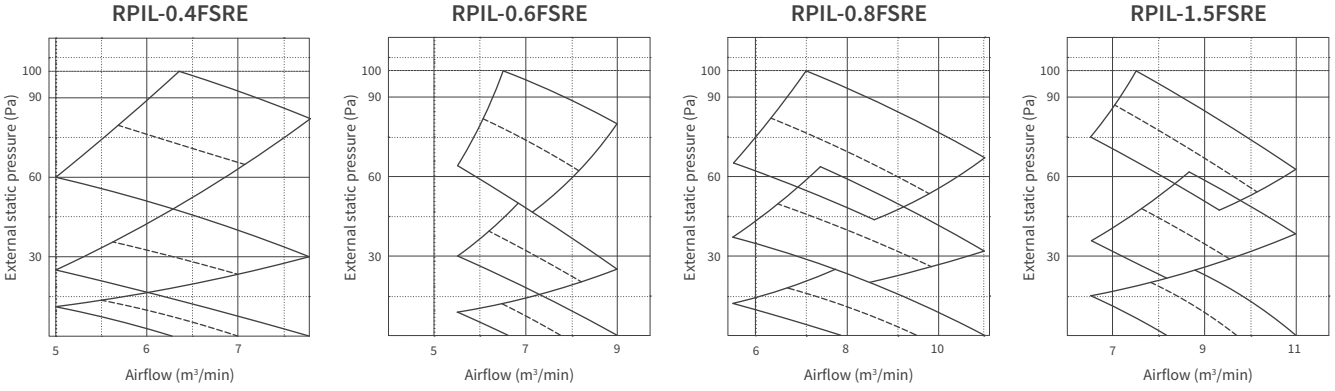
Webserver Airzone Cloud

The Airzone Cloud app, compatible on your smartphone, tablet, and PC, offers complete remote control of the installation; anywhere, anytime. You can control multiple servers at once and up to 32 systems on a single webserver. All the features of your thermostats are combined on the cloud: Control the temperature, weekly programming, weather forecasts, login authorization…

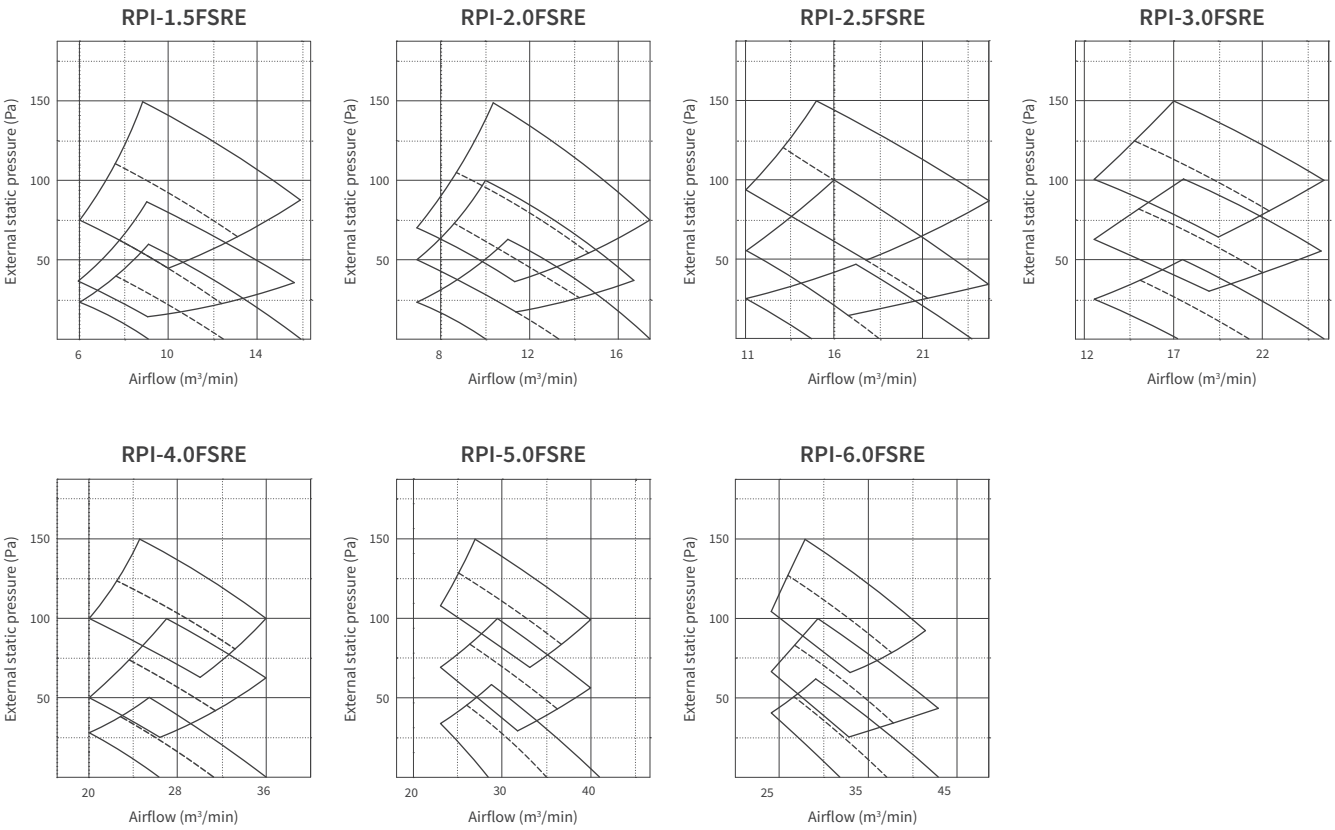|			
AZCE6BLUEFACEB	AZCE6THINKCB	AZCE6LITECB	AZX6WSCLOUDDINC
-	AZCE6THINKRB	AZCE6LITERB	AZX6WSCLOUDDINR
AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10

Ducted unit

Static pressure curve

Ducted unit 100 Pa (RPIL-0.4~1.5FSRE)

RPIL-0.4FSRE

RPIL-0.6FSRE

RPIL-0.8FSRE

RPIL-1.5FSRE

Ducted unit 150 Pa (RPI-1.5~6FSRE)

RPI-1.5FSRE

RPI-2.0FSRE

RPI-2.5FSRE

RPI-3.0FSRE

RPI-4.0FSRE

RPI-5.0FSRE

RPI-6.0FSRE

Ducted unit 200 Pa (RPIH-4~6FSRE)

RPIH-4.0FSRE

RPIH-5.0FSRE

RPIH-6.0FSRE

High-Capacity ducted unit

RPI-8.0FSN3E(-F)

RPI-10.0FSN3E(-F)

RPI-16.0FSN3PE(-F)

RPI-20.0FSN3PE(-F)

Wall unit

SYSTEM FREE | 0.4 HP | ✕ | POWER SWITCH

GENTLE COOL | R410A REFRIGERANT | R32 REFRIGERANT | NEW
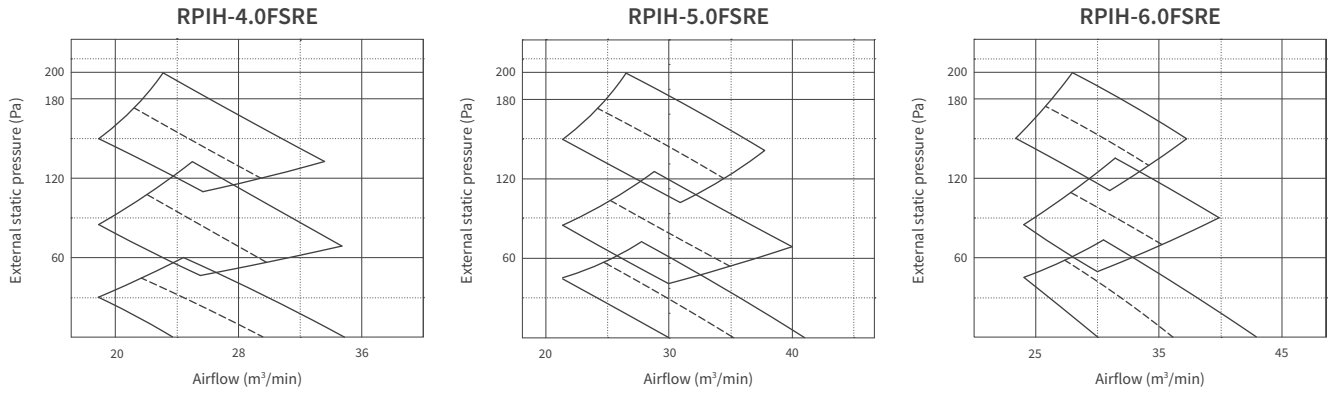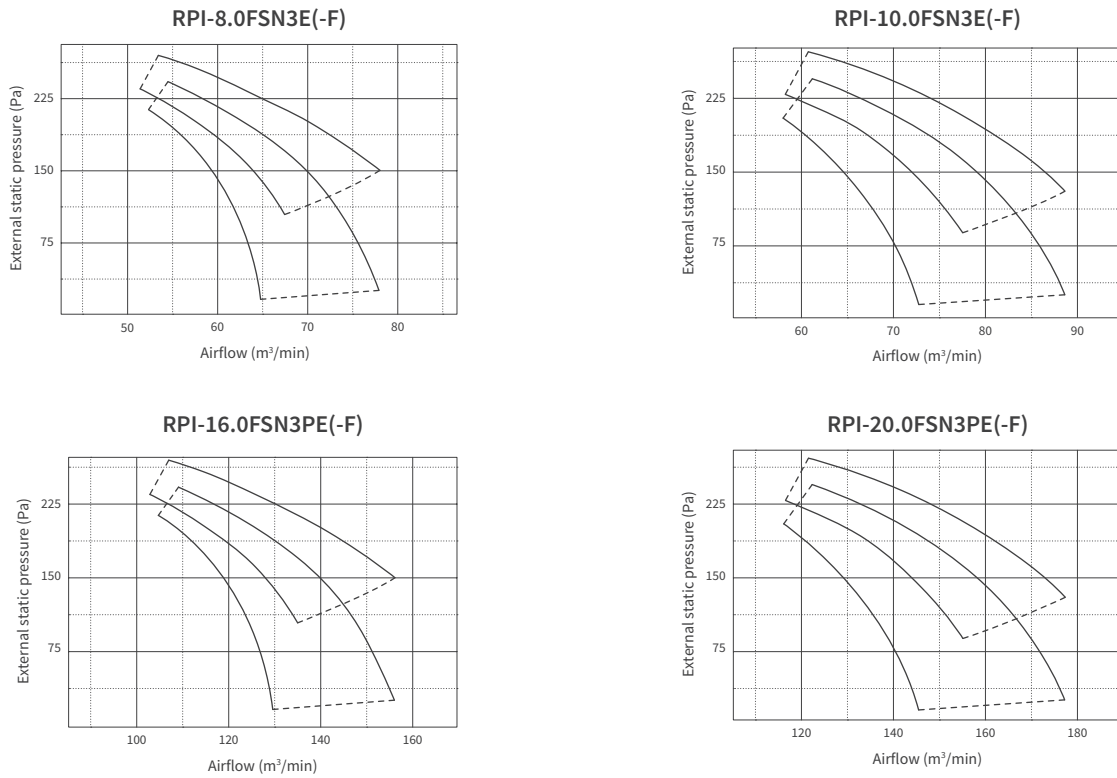
One of the most extensive ranges on the market: 17 models

With models ranging from 0.4 hp to 4.0 hp, Hitachi offers one of the biggest ranges on the market, with a harmonized design across all models. You can also use the adjustable power settings to respond precisely to each project.

Easy and discreet integration

Our units are so compact and lightweight that you can easily install them discreetly above a doorway.
To help with maintenance work, the fan motor on the 2 hp to 4 hp models can be replaced without disassembling the exchanger.

Unrivaled comfort

The "GENTLE COOL" air off temperature setting, accessible on the wired remote control PC-ARFP1E, adjusts the min. air off temperature. In summer, cold air drafts are avoided as you can set the the air off temperature to the maximum setting.

Silent operation

0.4 to 1.5 hp units can be ordered without an expansion valve (version H) to keep the expansion valve apart from the unit (part no. EV-1.5N1 order separately) for even quieter comfort. As such, our units are ideal for hotel use.

Central control

Our wall units are compatible with all types of remote control and feature an integrated infrared receiver as standard. Available as an option, with the PC-ALHZ1 infrared receiver you can operate multiple units on the same remote control. (Fig.1)
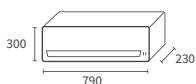
Higher airflow rate

Use the 4 fan speeds to adapt the airflow for comfort in every room.

Fig. 1

With the receiver kit on the wall
PC - ALHZ1

PC - AWR

PC-ARFP1E

Indoor units

300 / 790 / 230	300 / 900 / 230	300 / 1.100 / 260
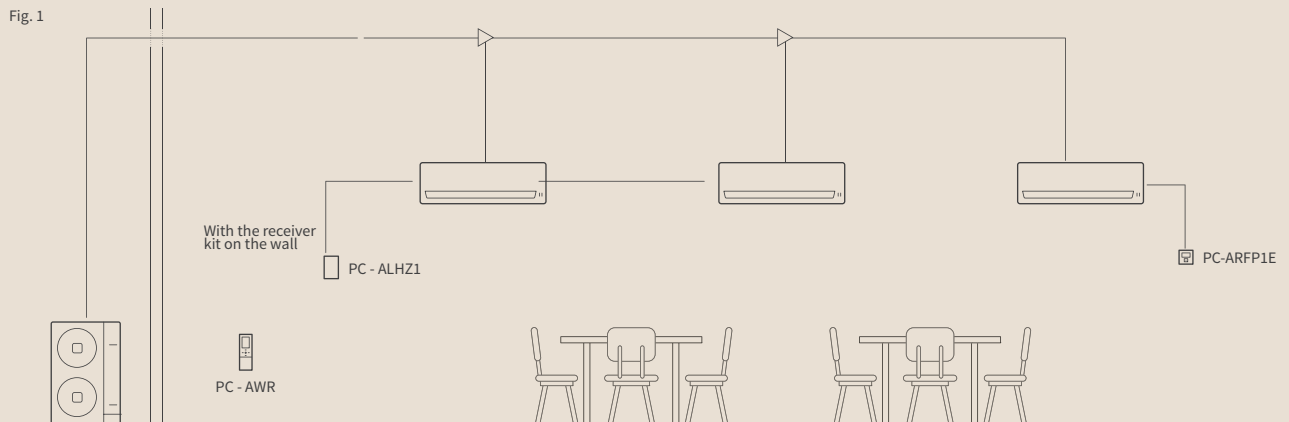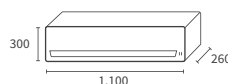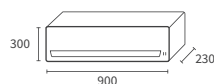
RPK- 0.4FSRM	RPK- 0.4FSRHM		RPK-2.0FSRM
RPK- 0.6FSRM	RPK- 0.6FSRHM		RPK-2.5FSRM
RPK- 0.8FSRM	RPK- 0.8FSRHM	RPK- 1.5FSRM	RPK-3.0FSRM
RPK- 1.0FSRM	RPK- 1.0FSRHM	RPK- 1.5FSRHM	RPK-4.0FSRM

Wall unit

Indoor units	Unit	RPK-0.4FSR(H)M	RPK-0.6FSR(H)M	RPK-0.8FSR(H)M	RPK-1.0FSR(H)M	RPK-1.5FSR(H)M	RPK-2.0FSRM	RPK-2.5FSRM	RPK-3.0FSRM	RPK-4.0FSRM
Power (adjustable)	Hp	0.40	0.60	0.80	1.00 → 1.30	1.50	1.8 ← 2.00	2.30 ← 2.50	3.00	4.00
Nominal Cooling capacity UTOPIA Prime & IVX	kW	not available	not available	2.00	2.50	3.60	5.00	5.60	7.10	10.00
Nominal Heating capacity UTOPIA Prime & IVX	kW	not available	not available	2.20	2.80	4.00	5.60	6.30	8.00	11.20
Nominal Cooling capacity SET FREE	kW	1.10	1.70	2.20	2.80 → 3.80	4.00	5.20 ← 5.60	6.70 ← 7.10	8.00	11.20
Nominal Heating capacity SET FREE	kW	1.30	1.90	2.50	3.20 → 4.20	4.80	5.60 ← 6.30	7.50 ← 8.50	9.00	12.50
Sound pressure in Cooling mode (EL/L/M/H)[1][3]	dB(A)	29 / 30 / 31 / 32	29 / 31 / 32 / 35	30 / 32 / 35 / 39		33 / 36 / 40 / 46	31 / 34 / 37 / 40	35 / 38 / 42 / 45	35 / 40 / 44 / 47	39 / 44 / 48 / 51
Sound power	dB(A)	45-46-48-49		45-47-49-53		47-50-54-58	47-50-53-55	51-54-58-60	51-56-60-63	54-60-64-65
Airflow in Cooling mode (EL/L/M/H) [4]	m³/h	360 / 402 / 438 / 450	360 / 420 / 450 / 480	390 / 420 / 480 / 600		450 / 540 / 660 / 840	570 / 660 / 780 / 870	720 / 840 / 990 / 1110	750 / 930 / 1050 / 1200	870 / 1050 / 1200 / 1380
Condensate pump included	-	No								
Diameter of pipes (Liq / Gas)	inches	1/4 / 1/2						3/8 / 5/8		
Condensate outlet diameter (ext)	mm	20								
Dimensions (H x L x D)	mm	300 x 790 x 230			300 x 900 x 230		300 x 1100 x 260			
Weight	kg	9	10			11	14.5	15		
Power supply	-	1~ 230V 50Hz								
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75								
Recommended fuse size	A	5								

[1] Sound pressure is measured under the following conditions: 1 m under the unit, 1 m from the discharge louvre.
[2] Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.
[3] High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.
[4] Very low speed is available in Thermo-off mode.

EEV
EV-1.5N1

RPK- 0.4~1.5FSRHM

PC-ARFP1E
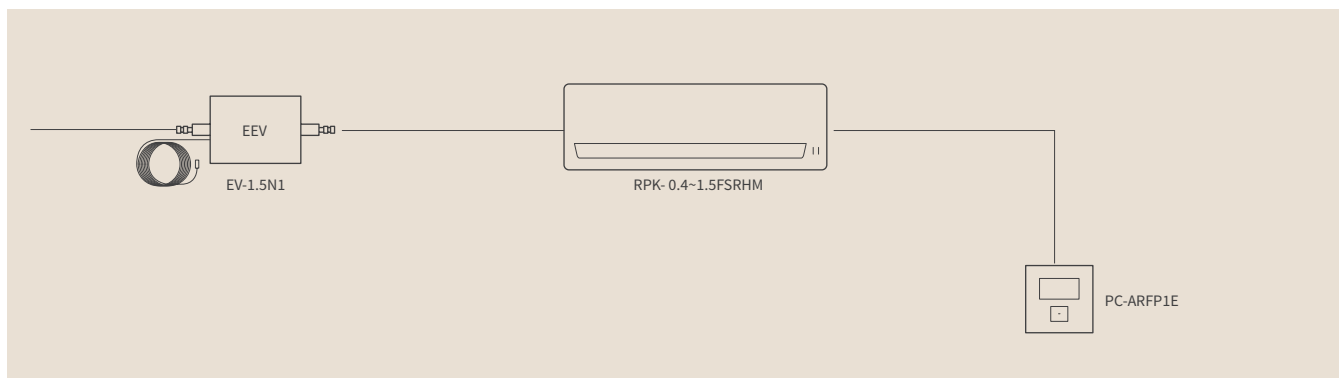
You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see the tab VRF TWIN Controls)

Simple wired controller PC-ARH1E	Infrared controller PC-AWR	Hard wired controller PC-ARFP1E (PC-ARFG-E available in 2022)	Connectors PCC-1A
Remote sensor THM-R2AE	Infrared receiver PC-ALHZ1 (external)	Multi-tenant card PC-AMTB	External EEV EV-1.5N1

Floor mounted

R410A REFRIGERANT • SYSTEM FREE • POWER SWITCH

Unrivaled comfort

The GENTLE COOL air off temperature setting, accessible on the wired remote control PC-ARF1E, adjusts the min. air off temperature. In summer, cold air drafts are avoided as you can set the air off temperature to the maximum setting.

Even greater flexibility

To suit any requirement, the console comes in an uncased version (horizontal or vertical blowing) as well as cased. You can also use the adjustable power settings to respond precisely to each project.

Compact design

Just 220 mm deep, uncased units can be installed anywhere on the wall, taking up very little floor space. The 630 mm height makes it an ideal solution for air-conditioning or heating a room.

Integrated remote control

For easier access, the remote control can be integrated into the console itself (Fig.1)

Adapted air circulation

On Hitachi uncased consoles, you can change the blowing direction to suit any need. (Fig.2)

Fig. 1

Fig. 2

Indoor units
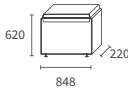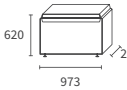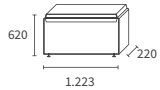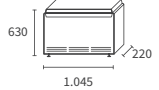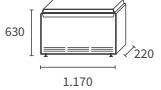
620 / 848 / 220	620 / 973 / 220	620 / 1.223 / 220	630 / 1.045 / 220	630 / 1.170 / 220	630 / 1.420 / 220
RPFI-1.0FSN2E	**RPFI-1.5FSN2E**	**RPFI-2.0FSN2E** **RPFI-2.5FSN2E**	**RPF-1.0FSN2E**	**RPF-1.5FSN2E**	**RPF-2.0FSN2E** **RPF-2.5FSN2E**

Floor mounted

Cased console	Unit	RPF-1.0FSN2E	RPF-1.5FSN2E	RPF-2.0FSN2E	RPF-2.5FSN2E
Power (adjustable)	Hp	0.80 ← 1.00	1.30 ← 1.50	1.80 ← 2.00	2.30 ← 2.50
Nominal Cooling capacity UTOPIA Prime & IVX	kW	2.50	3.60	5.00	5.60
Nominal Heating capacity UTOPIA Prime & IVX	kW	2.80	4.00	5.60	6.30
Nominal Cooling capacity SET FREE	kW	2.20 ← 2.80	3.80 ← 4.00	5.20 ← 5.60	6.70 ← 7.10
Nominal Heating capacity SET FREE	kW	2.50 ← 3.20	4.20 ← 4.80	5.60 ← 6.30	7.50 ← 8.50
Sound pressure in Cooling mode (L / M / H) [1][3]	dB(A)	29 / 32 / 35	31 / 35 / 38	32 / 36 / 39	34 / 38 / 42
Sound power	dB(A)	57	60		
Airflow in Cooling mode (L/M/H)	m^3/h	360 / 420 / 510	540 / 600 / 720	660 / 840 / 960	
Dehumidification	l/h	1.10	1.60	2.30	2.70
Diameter of pipes (Liq / Gas)	inches	1/4 - 1/2		1/4 - 5/8	3/8 - 5/8
Condensate outlet diameter (ext)	mm	18.50			
Dimensions (H x L x D)	mm	630 x 1045 x 220	630 x 1170 x 220	630 x 1420 x 220	
Weight	kg	25	28	33	34
Power supply	-	1~ 230V 50Hz			
Recommended fuse size	A	5			
Cable width (EN 60 335-1) [2]	mm^2	3 x 0.75			

Uncased console	Unit	RPFI-1.0FSN2E	RPFI-1.5FSN2E	RPFI-2.0FSN2E	RPFI-2.5FSN2E
Power (adjustable)	Hp	0.80 ← 1.00	1.30 ← 1.50	1.80 ← 2.00	2.30 ← 2.50
Nominal Cooling capacity UTOPIA Prime & IVX	kW	2.50	3.60	5.00	5.60
Nominal Heating capacity UTOPIA Prime & IVX	kW	2.80	4.00	5.60	6.30
Nominal Cooling capacity SET FREE	kW	2.20 ← 2.80	3.80 ← 4.00	5.20 ← 5.60	6.70 ← 7.10
Nominal Heating capacity SET FREE	kW	2.50 ← 3.20	4.20 ← 4.80	5.60 ← 6.30	7.50 ← 8.50
Sound pressure in Cooling mode (L / M / H) [1][3]	dB(A)	29 / 32 / 35	31 / 35 / 38	32 / 36 / 39	34 / 38 / 42
Sound power	dB(A)	57	60		
Airflow in Cooling mode (L/M/H)	m^3/h	360 / 420 / 510	540 / 600 / 720	660 x 840 x 960	
Dehumidification	l/h	1.10		2.30	2.70
Diameter of pipes (Liq / Gas)	inches	1/4 - 1/2		1/4 - 5/8	3/8 x 5/8
Condensate outlet diameter (ext)	mm	18.50			
Dimensions (H x L x D)	mm	620 x 848 x 220	620 x 973 x 220	620 x 1223 x 220	
Weight	kg	19	23	27	28
Power supply	-	1~ 230V 50Hz			
Recommended fuse size	A	5			
Cable width (EN 60 335-1)[2]	mm^2	3 x 0.75			

[1] Sound levels (pressure) are measured in an anechoic chamber at 1 m in front of the unit and at 1 m from the floor.
[2] Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility.
[3] High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.

You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see the tab VRF TWIN Controls)

Simple wired controller PC-ARH1E	Infrared controller PC-AWR	Hard wired controller PC-ARFP1E (PC-ARFG-E available second half of 2022)
Remote sensor THM-R2AE	Infrared receiver PC-ALHZ1 (external)	Multi-tenant card PC-AMTB

Connectors
PCC-1A

Ceiling unit

GENTLE COOL · SYSTEM FREE · POWER SWITCH · R410A REFRIGERANT · R32 REFRIGERANT · NEW

Energy-saving

The motion sensor (optional) automatically optimizes the level of comfort while limiting the energy consumption in rooms only occupied occasionally. It continuously analyzes thermal disparities as well as the presence of people in the room, adjusting its setting temperature (+/- 2°C), fan speed, and airflow direction to suit.

Wide operating ranges

4 fan speeds to suit every need, provide comfort, and make savings.

Flexible implementation

Condensing pumps are offered as an option to provide a high level of installation flexibility.

Unrivaled comfort

The GENTLE COOL air off temperature setting, accessible on the wired remote control PC-ARFP1E, adjusts the min. air off temperature. In summer, cold air drafts are avoided as you can set the air off temperature to the maximum setting.
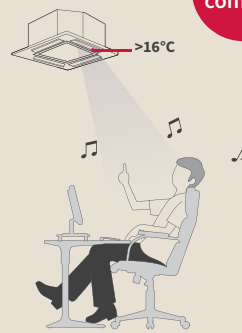
Potential for discomfort | **GentleCool → No cold drafts** — Ultimate comfort
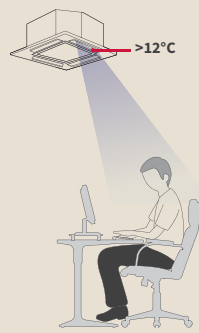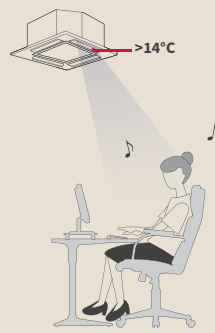
>8°C → COLD AIR DRAFT — GentleCool: OFF
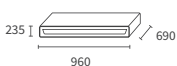>12°C — GentleCool: LOW
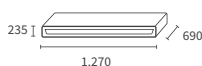>14°C — GentleCool: MEDUIM
>16°C — GentleCool: HIGH

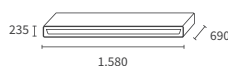Min. Temp° control on the air off with the remote control PCARFP1E or the CSNET monitoring system

Indoor units

235 / 690 / 960
RPC-1.5FSR
RPC-2.0FSR

235 / 690 / 1.270
RPC-2.5FSR
RPC-3.0FSR

235 / 690 / 1.580
RPC-4.0FSR
RPC-5.0FSR
RPC-6.0FSR

Ceiling unit

Indoor units	Unit	RPC-1.5FSR	RPC-2.0FSR	RPC-2.5FSR	RPC-3.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR
Power (adjustable)	Hp	1.30 ← 1.50	1.80 ← 2.00	2.30 ← 2.50	3.00	4.00	5.00	6.00
Nominal Cooling capacity UTOPIA Prime & IVX	kW	3.60	5.00	5.60	7.10	10.00	12.50	14.00
Nominal Heating capacity UTOPIA Prime & IVX	kW	4.00	5.60	6.30	8.00	11.20	14.00	16.00
Nominal Cooling capacity SET FREE	kW	3.80 ← 4.00	5.20 ← 5.60	6.70 ← 7.10	8.00	11.20	14.00	16.00
Nominal Heating capacity SET FREE	kW	4.20 ← 4.80	5.60 ← 6.30	7.50 ← 8.50	9.00	12.50	16.00	18.00
Sound pressure in Cooling mode (EL/L/M/H) [1][3]	dB(A)	28 / 31 / 35 / 37	28 / 31 / 35 / 38		29 / 33 / 37 / 40	32 / 37 / 42 / 44	35 / 41 / 45 / 48	36 / 42 / 47 / 49
Sound power	dB(A)	53	54	54	56	60	64	65
Airflow in Cooling mode (EL/L/M/H) [4]	m³/h	540 / 660 / 780 / 900		690 / 840 / 990 / 1140	750 / 930 / 1110 / 1260	1020 / 1320 / 1590 / 1800	1200 / 1530 / 1860 / 2100	1260 / 1620 / 1950 / 2220
Condensate pump	-	No (optional accessory)						
Max. elevation	mm	600						
Diameter of pipes (Liq / Gas)	inches	1/4 - 1/2	1/4 - 5/8	3/8 - 5/8				
Condensate outlet diameter (ext)	mm	32						
Dimensions (H x L x D)	mm	235 x 960 x 690		235 x 1270 x 690		235 x 1580 x 690		
Weight	kg	26	27	35		41		
Power supply	-	1~ 230V 50Hz						
Recommended fuse size	A	5						
Cable width (EN 60 335-1) [2]	mm²	3 x 0.75						

[1] Sound levels (pressure) are measured in an anechoic chamber at 1 m under the unit, 1 m from the air louvre.
[2] Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility.
[3] High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.
[4] Very low speed is available in Thermo-off mode.

You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see the tab VRF TWIN Controls)

Simple wired controller
PC-ARH1E

Infrared controller
PC-AWR

Hard wired controller
PC-ARFP1E
(PC-ARFG-E available in 2022)

Remote sensor
THM-R2AE

Infrared receiver
PC-ALHP1 (integrated) / PC-ALHZ1 (external)

Multi-tenant card
PC-AMTB

Motion sensor
SOR-NEP

Connectors
PCC-1A

Condensate drainage pump
DUPC-63K1 (extraction pump RPC-1.5FSR)
DUPC-71K1 (extraction pump RPC-2.0FSR)
DUPC-160K1 (extraction pump RPC-(2.5-6.0)FSR)

Hydro Free Low-Temperature

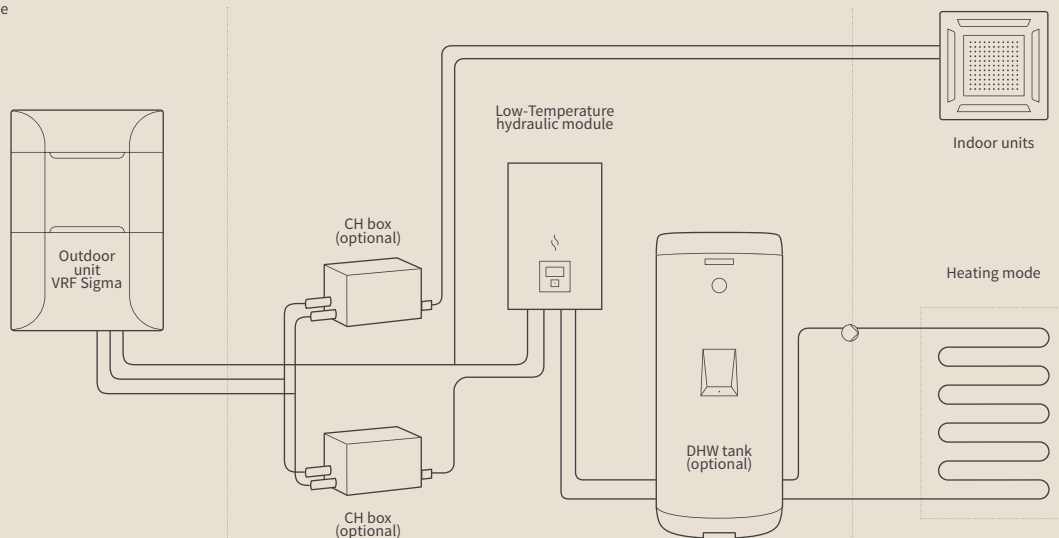## Heating mode only

R410A REFRIGERANT

SYSTEM FREE

45°

Heating applications

The Hydro Free module (low temperature, 45°C) is compatible with underfloor heating and fan coil units. This solution ensures maximum thermal comfort with the DX/hydraulic combined solution.
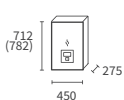This compact and ultra-silent module offers the most comfort for renovation projects.

Compactness

A single solution: the VRF installation is made even easier with the Plug-Play system. The module has all the necessary equipment as standard: pump, filter, expansion tank, purges, manometer ...
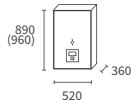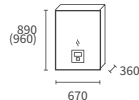
Setup example

Low-Temperature hydraulic module

Indoor units

CH box (optional)

Outdoor unit VRF Sigma

Heating mode

DHW tank (optional)

CH box (optional)

Indoor units

712 (782)
275
450
RWLT-3.0VN1E

890 (960)
360
520
RWLT-5.0VN1E

890 (960)
360
670
RWLT-10.0VN1E

Compatible with outdoor units SET FREE SIGMA: RAS-FSXNSE, RAS-FSXNPE and SET FREE Mini L (8/10/12hp).

Hydro Free Low-Temperature

Indoor units		Unit	RWLT-3.0VN1E	RWLT-5.0VN1E	RWLT-10.0VN1E
Rated power Heating (7°C outside / 35°C water)		kW	9	16	27
Heating capacity (-7°C outside / 35°C water)		kW	5.5	11.5	17.7
Heating capacity (-7°C outside / 45°C water)		kW	5.2	11.1	15.61
Sound power		dB(A)	37	39	47
Net weight		kg	35	50	62
Unit dimensions	Height (with connections)	mm	712 (782)	890 (960)	890 (960)
	Width	mm	450	520	670
	Depth	mm	275	360	360
Water flow	Nominal	m³/h	1.5	2.7	4.7
Min. system water capacity		L	100	150	180
Power supply		-	1~ 230V 50Hz		
Max. consumption		kW	0.05	0.08	0.14
Refrigeration connection type		-	Flare nut	Flare nut	Liq: Flare nut - Gas: Brazed
Diameter of pipes (Liq - Gas)		inches	3/8" - 5/8"	3/8" - 5/8"	3/8" - 7/8"
Hydraulic connections (male/male valves supplied)		inches	1"	1 - 1/4"	1 - 1/4"
Hydrofree connection rate		-	0 ~ 100%		
Min. overall index of DX* units		-	50%		
General connection rate of Hydrofree + DX units	2-pipe VRF*	-	50% ~ 130%		
	3-pipe VRF*(2)	-	RAS-FSXNSE: 50% ~ 150%		
		-	RAS-FSXNPE: 50% ~ 200%		
Max. number of indoor units with Hydrofree installed (1)		-	38		
Temperature range of water outlet in heating mode		-	20°C ~ 45°C		

* Important: simultaneous operation can never be higher than 100% in heat pump mode.
  Simultaneous operation in the same mode can never exceed 100% for a VRF system in heat recovery mode.
(1) The maximum number of indoor units is the recommended quantity of indoor units for every size of outdoor unit. For more information, please refer to the technical catalog of the outdoor unit.
(2) See Section 9.5.2.2 "Function of DIP switches and dial switches" in the technical catalog for more information on Pin 3 of the DSW8 with a connection rate of > 180%.

You can have multiple contacts with the connector PCC-1A: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see page 48)

ON/OFF wireless thermostat

ATW-RTU-04

Controller enclosure

ATWFCP-01

Temperature sensors

ATW-2OS-02
ATW-ITS-01
ATW-WTS-02Y
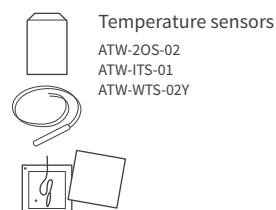
Hydro Free High-Temperature

Heating mode only

For a variety of applications

- High-temperature heating: combined with the VRF Sigma or SET FREE Mini 2/3-pipe.
- Constant DHW production: combined with the VRF Sigma or 3-pipe SET FREE Mini.
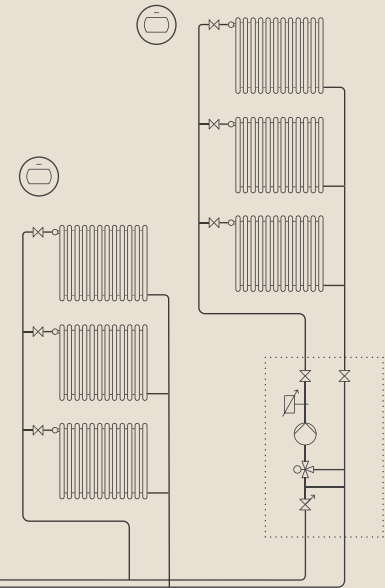- Timed DHW production: combined with the VRF Sigma or 3-pipe SET FREE Mini.

The Hydro Free high-temperature system is ideal for high-temperature hot water needs for renovation projects, as heat is recovered via the CH box on indoor units operating in coooling mode.
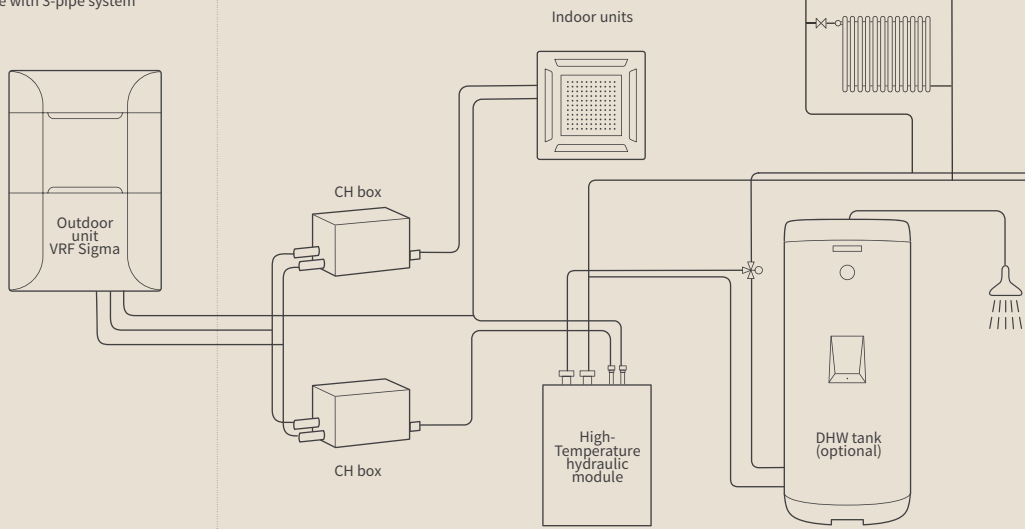
2-in-1 system

A single unit to meet 2 needs: **heating and DHW**. The High-Temperature Hydro Free system produces hot water up to 80°C from renewable energy (no anti-legionella cycle required).
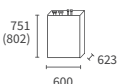
Smart operation

High-Temperature Hydro Free models are equipped with 2 compressors operating on a smart cascading system, and 2 refrigeration cycles (R-410A and R-134A): the second cycle occurs only if the inlet temperature is greater than or equal to 30°C or when the outlet temperature is greater than or equal to 45°C.

Setup example with 3-pipe system

Indoor units

CH box

Outdoor unit VRF Sigma

CH box

High-Temperature hydraulic module

DHW tank (optional)

Indoor units

751 (802)
623
600

RWHT-5.0VNF1E

Hydro Free High-Temperature

Indoor units		Unit	RWHT-5.0VNF1E
Rated power Heating (7°C outside / 35°C water)		kW	16
Heating capacity (-7°C outside / 65°C water)		kW	13.9
Heating capacity (-7°C outside / 80°C water)		kW	12.4
Sound power		dB(A)	57
Net weight		kg	129
Unit dimensions	Height (with connections)	mm	751(802)
	Width	mm	600
	Depth	mm	623
Water flow	Nominal	m³/h	2.8
Min. system water capacity		L	80
Power supply		-	1~ 230V 50Hz
Max. consumption		kW	6.23
Refrigeration connection type		-	Flare nut
Diameter of pipes (Liq - Gas)		inches	3/8" - 5/8"
Hydraulic connections (male/male valves supplied)		inches	1-1/4" - 1-1/4"
Refrigerant		-	R134A
Compressor		-	Scroll
Hydro free connection rate		-	0 ~ 100%
Total ratio of DX when installed with Hydro free*		-	50% ~ 130%
Total connection rate Hydrofree + DX	2-pipe* VRF	-	50% ~ 130%
	3-pipe* VRF	-	RAS-FSXNSE: 50% ~ 150%
		-	RAS-FSXNPE: 50% ~ 200%
Max. number of indoor units with HM installed		-	38
Max. temperature range of water outlet		-	25°C ~ 80°C
Remote control		-	PC-ARFWE (mounted locally)

* Important: simultaneous operation can never be higher than 100% in heat pump mode.
Simultaneous operation in the same mode can never exceed 100% for a heat recovery system.
(1*) The maximum number of indoor units is the recommended quantity of indoor units for every size of outdoor unit. For more information, please refer to the technical catalog of the outdoor unit.
(*2) See Section "9.5.2.2 Function of DIP switches and dial switches" for more information on Pin 3 of the DSW8 with a connection rate of > 180%.

You can have multiple contacts with the PCC-1A connector: progress report, error report, thermostat control, remote "Start/Stop".

Controls and compatible accessories (see page 60)

Controller
PC-ARFWE

ON/OFF wireless thermostat
ATW-RTU-04

Temperature sensors
ATW-2OS-02
ATW-ITS-01
ATW-WTS-02Y
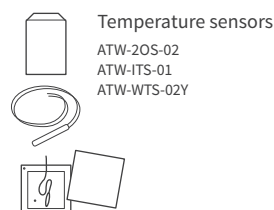
Hitachi wants to bring more and more comfort to its customers. The user interface is key to that objective. This extensive range of controls is perfect for the needs of anything from small to large public sector projects. It offers more features than any other range on the market, in unique versions as standard. Installation is quick and easy.

Managing the systems Utopia Prime, IVX, and VRF

Selection guide
Central controls

		airCloud Pro	PSC-A32MN	PSC-A64GT	CSNET Lite	CSNET Manager 2
Technical data of the gateway or interface	Indoor unit per interface	64 indoor units	32 remote control units 160 indoor units	64 remote control units 160 indoor units	64 indoor units	64 indoor units
	Outdoor unit per interface	16	32	64	64	64
	Interface per H-Link	1	8	8	1	1
	Max. amount of IDU per user interface	Unlimited (with multiple interfaces)	160	160	64	1024
	Cloud access	●	-	-	-	-
	Web application	●	-	-	●	●
	Mobile app	●	-	-	-	-
Connectivity	Standard connectivity	Ethernet	-	-	Ethernet	Ethernet
	4G connectivity	Option	-	-	-	-
	Interface updated remotely online	●	-	-	●	●
System access	Main access	Cloud	Local	Local	Local	Local
	Local setup access: can be used to control units in a backup solution if access to the server is no longer available	● limited features	●	●	●	●
	Remote access	●	-	-	●	●
	Type pf server	Cloud	-	-	Local web server	Local web server
	Internet connection mandatory	●	-	-	-	-
User and site management	Multi-user management	●	-	-	●	●
	User accounts with limited access to indoor units / functions	-	-	-	●	●
	Multi-site management	●	-	-	-	-
Basic functions	Basic indoor unit control	●	●	●	●	●
	Installation dashboard	●	-	-	●	●
	Weekly programming	●	-	-	-	-
	Annual programming	-	-	-	●	●
	Reset filter sign	●	●	●	-	-
	Alarm log	●	●	●	●	●
Advanced features	Min./max. setpoint temperature	-	●	-	●	●
	Outdoor unit power use setback (manual, contact, or programmable)	-	●	-	●	●
	Cumulative operating time	●	●	●	-	-
	System status (running data for outdoor unit and indoor unit)	●	-	-	●	●
	Data archive	-	-	-	●	●
	Order log & direct data	-	-	-	●	●
	Electrical consumption readings for Hitachi indoor unit	●	-	-	●	●
	Consumption readings from third-party watt meters	-	-	-	●	●
	Interlock	-	-	-	●	●
	Comfort features (Gentle Cool, heat draft (winter comfort) SetBack (reduced heating/Cooling mode))	-	-	-	●	●
	Alarm notifications	Expected in 2021	-	-	●	●
	Local server management	-	-	-	●	●
	Smart control and advanced maintenance	Expected in 2021	-	-	-	-
BMS connection	Input/output switches	-	●	●	●	●
	Tenant billing	Expected in 2021	-	-	●	●
	BMS connection	Expected in 2021	-	-	●	●

Selection guide to controls

Specific remote controls

Hard wired
PC-ARFP1E

Intuitive interface.
Manage 1 to 16 indoor units as masters and/or slaves.
Built-in temperature sensor.
Adjust optional settings.

New features
- To optimize energy consumption: ECO button, energy consumption display.
- For more comfort: setpoint adjustable to -/-0.5°C, GENTLE COOL function, frost protection function, night setback for outdoor unit.
- For more flexibility: new Master/Slave function which allows multiple indoor units to have the mode changed and be set by one remote control.

Ideal for maximum flexibility in all commercial applications.

Simplified wired
PC-ARH1E

Manage 1 to 16 indoor units as masters and/or slaves.
Simplified access to essential functions.
Adjust optional settings.

New features
- For more comfort: setpoint adjustable to +/-0.5°C, frost protection function.

Ideal for hotels, shops, when simplicity is key.

Infrared
PC-AWR

Manage 1 to 16 indoor units as masters and/or slaves.
Simplified access to key functions.
Infrared receiver function.

IR receiver	Compatibility with indoor units	
Include with the unit	Wall units	RPK-FSRM / RPK- FSRHM
PC-ALHC1 PC-ALH3 PC-ALHD1	4-way 600x600 cassette unit 4-way 800x800 cassette unit 2-way cassette unit	RCIM-FSRE RCI-FSR RCD-FSR
PC-ALHZF1 (external)	Ducted units Consoles	RPI / RPIM / PPF / RPFI / RCI RCIM / RCD / RPK / RPC
PC-ALHP1	Ceiling units	RPC

Ideal for renovations.

Centralised controls

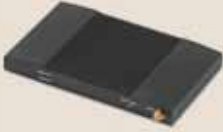### Touch screen controls
PSC-A32MN
PSC-A64GT

Manage up to 160 indoor units:
- **PSC-A32MN** > up to 32 groups of 16 indoor units, max. 160.
- **PSC-A64GT** > up to 64 groups of 16 indoor unit, max. 160. Up to 8 touch controllers per H-Link bus.
5" (PSC-A32MN) and 8.5" (PSC-A64GT) color touchscreen.
Up to 100 stored alarms.
Available contacts: start/stop, fault report, function report.
Demand control possible from external contact to reduce capacity.
In the case of using PSC-6RAD, max. 16 units allowed.

Ideal for monitoring small and medium-sized systems.

Building management systems

	CSNET Manager 2		CSNET Lite	airCloud PRO
Range	with screen	without screen (web)	web	web
User interface	10" or 15" high-resolution touchscreen CSNET Manager 2T10 or CSNET Manager 2T15	Interface without screen, access data on the PC, tablet or smartphone on all CSNET, 2T10, 2T15 (as well as the screen) and on the 2SL (model without screen)	PC, tablet, smartphone	PC, tablet, smartphone + mobile app / web app
H-Link interface	HC-A64NET		CSNET Lite	HC-IOTGW
Compatibility	H-Link units: - VRF & IVX Prime - Hydrofree - YUTAKI - Utopia Prime RAC units with adapters:			Main HLINK units: - VRF / IVX - RAC units with adapters (some limitations)
Functions	- Version 2.0 of the CSNET software (managing the Yutaki, server room function, pulse meters on the CSNET Lite, electricity and water metering for third-party systems, etc.) - VRF + air/water heat pump unit control (H-Link systems) - Multi-tenant access with specific rights/privileges for different functions or indoor unit control - Advanced control functions (Comfort, Interlock...) - Multi-tenant installations, flexibility for office applications - Energy metering for VRF units – third-party systems - Use of dry input/output contacts on indoor units or CSNET Lite - Connection to the BMS system (Modbus, BACnet, or KNX)		- Same features as CSNET Manager, applied to small or medium-sized systems - Manage up to 64 indoor units	- Monitor units VRF, IVX, and Utopia (HLINK unit) - Simple unit control with Web or mobile applications - Alarm notifications and alarm log available for remote maintenance - Perfect solution for small public applications and businesses needing basic control functions
Applications	Medium and large-size systems		Small and medium-size systems	Small and large-size systems

BMS interfaces

MODBUS interface
HC-A16MB
HC-A64MB

- Up to 16 / 64 indoor units per interface.
- Optional function management, view outdoor unit settings.

KNX interface
HI-AC-KNX-16
HI-AC-KNX-64

- up to 16 / 64 indoor units par interface.
-Fast integration: KNX-certified.
-Easy maintenance: USB port available, function and communication LEDs.
- KNX interfaces compatible with CSNET Manager.

BACNET interface
HI-AC-BAC-16
HI-AC-BAC-64

- Up to 16 / 64 indoor units per interface.
- Fast integration: BACnet-certified, direct H-Link communication – BACnet.
- Easy maintenance: USB port available, function and communication LEDs.
- BACNET interface compatible with CSNET Manager.

LON interface
HARC-BX E(A)
HARC-BX-E(B)

-Up to 32 (version E(B)) / 64 (version E(A)) indoor units per interface

Selection guide for Individual remote controls

		Advanced wired controller PC-ARFP1E
Selection	Max. number of indoor units per remote control	1 to 16
	Type of master/slave connection	Non-polarized bus
Main functions	Start/Stop	●
	Mode selection	●
	Auto Heating/Cooling mode	● (best used with 3-pipe VRFs)
	Dehumidification mode	●
	Set point selection	● (19°C to 30°C in Cooling mode / 17°C to 30°C in Heating mode)
	Adjust set point by +/-0.5°C	●
	Adjusting the fan speed	● (up to 5 according to the indoor unit type)
	Louvre control	●
	Individual louvre control	●
	Weekly timer	● (Up to 5 daily programs)
	Daily timer	●
	Holiday mode	-
	ECO mode	●
	Auto-restart after a power outage	●
	Built-in temperature sensor	●
Advanced management features	Lock function mode	●
	Lock the setpoint temperature ranges	●
	Lock the remote control buttons with the exception of Start/Stop	●
	Stop the fan in Thermo OFF Heating mode	●
	Stop the fan in Thermo OFF Cooling mode	●
	Thermistor selection (rcs, return air, average)	●
	Night set back (outdoor unit at lower noise level)	●
	Temperature set back: in Heating mode or in Cooling mode	●
	Gentle Cool (summer comfort): limit the air off Temp° in Cooling mode	●
	Auto Boost: rapid rise in temperature at startup	●
	Manage the motion sensor	●
	Adjust the temperature differential in Heating mode	●
	Show ambient room temperature	●
	Show outside temperature	●
	View the estimated energy consumption of the outdoor unit	●
	Demand control (auto or by zone)	●
Advanced maintenance features	Error code log	● (max. 30)
	After-sales contact details	●
	Information: defrost in progress	●
	Information: filter needs cleaning	●
	Self-test indoor unit and remote control electronic boards	●
	Check mode (view system parameters)	●
	Test Run mode	●
	Setting optional functions	●

ECO mode

Easy to use, this key takes you straight to "Energy Saving" functions.
You can access the following options:
- Activation / Deactivation
- 3 energy-saving levels: HIGH> MED> LOW applied continuously or following a weekly schedule.
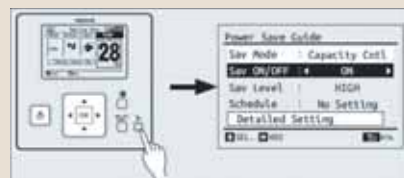
Simplified wired control PC-ARH1E	Infrared PC-AWR
1 to 16	1 to 16
Non-polarized bus	Non-polarized bus
●	●
●	●
● (best used with VRF 3 pipes)	● (best used with VRF 3 pipes)
●	●
● (19°C to 30°C in Cooling mode / 17°C to 30°C in Heating mode)	● (19°C to 30°C in Cooling mode / 17°C to 30°C in Heating mode)
●	-
● (up to 5 according to the indoor unit type)	● (up to 5 according to the indoor unit type)
●	●
-	-
-	-
-	● (daily)
-	-
-	-
●	-
●	-
●	-
●	-
●	-
●	-
●	-
-	-
●	-
-	-
-	-
-	-
●	-
-	-
-	-
-	-
-	-
●	-
-	-
-	-
-	-
-	-
●	-

Simple functions to customize your comfort: GENTLE COOL and Auto Boost
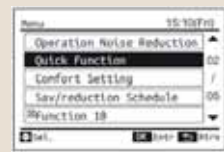
When you quickly need to reach a room's set temperature, select Auto Boost.

When you want to ensure more comfort by avoiding Cold drafts in summer, select the Comfort function called GENTLE COOL and customize your comfort: HIGH>MED >LOW.
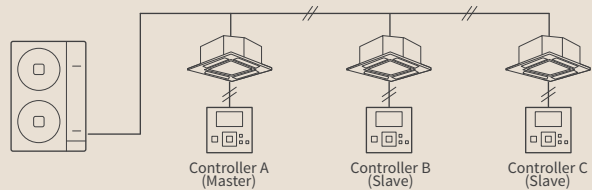
Setpoint adjustable by +/- 0.5°C

Show outside or room temperature

Define the master remote control to make the changeover even easier

New feature accessible with remote control PC-ARFP1E: change the mode from any 'master' remote control.

Controller A (Master)   Controller B (Slave)   Controller C (Slave)

Selection guide
Centralised controls
Touchscreen or web based

Suitable for different sized projects allowing for faster monitoring, setup, and maintenance.

PSC-A32MN

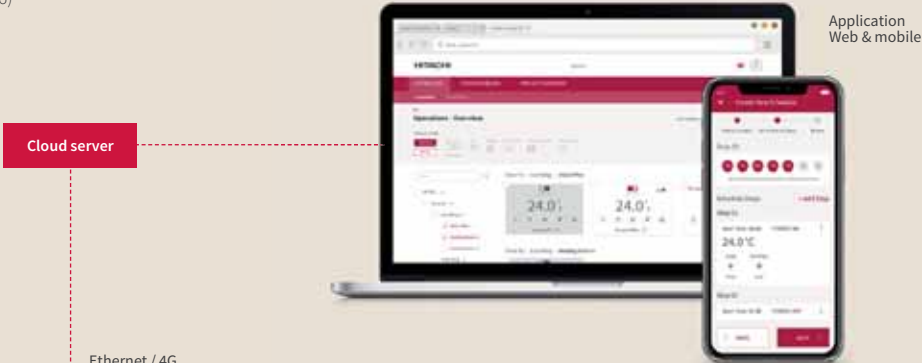Manage up to 32 groups of 16 indoor units, max. 160.
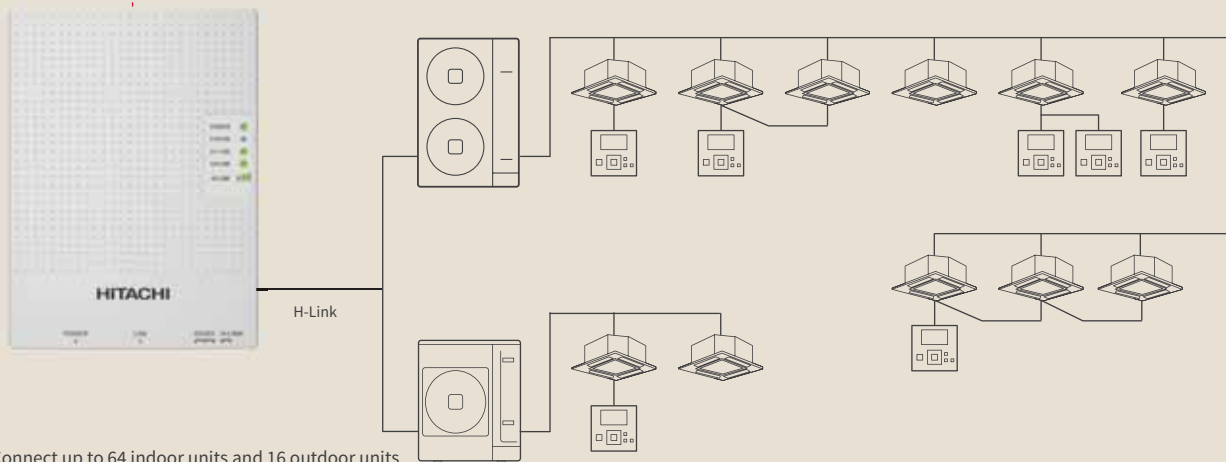5" color touchscreen.

PSC-A64GT

Manage up to 64 groups of 16 indoor units, max. 160.
8.5" color touchscreen.

airCloud Pro

NEW
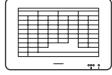
Application
Web & mobile

Cloud server

Ethernet / 4G
(4G module: option available
in 2021)

H-Link

HITACHI

Connect up to 64 indoor units and 16 outdoor units
Compatible with H-Link II

	Centralised, touchscreen PSC-A32MN	Centralised, touchscreen PSC-A64GT
Selection	Manage up to 32 units of 16 indoor units, max. 160.	Manage up to 64 units of 16 indoor units, max. 160.
	5" color touchscreen	8.5" color touchscreen
	Up to 8 centralized controllers per H-Link bus	Up to 8 centralized controllers per H-Link bus
Functions **Key functions** — Access levels	2 (user, professional)	
Define groups (set of indoor units connected on the same remote control)	●	
Define blocks (sets of groups)	●	
Mode selection	● by indoor unit / unit or block	
Dehumidification mode	●	
Set point selection	● by indoor unit / unit or block	
Adjust set point by +/-0.5°C	-	
Adjusting the fan speed	● by indoor unit / unit or block	
Louvre control	● by indoor unit / unit or block	
Individual louvre control	-	
Weekly timer	● (Up to 10 daily programs)	
Daily timer	-	
Holiday mode	-	
Filter indication (light on according to timer)	● by indoor unit	
ECO mode	-	
Advanced management functions — Lock remote control apart form the Start/Stop button	● by indoor unit / unit or block	
Limit and lock setpoint ranges (in Heating mode / in Cooling mode)	● by indoor unit / unit or block – on PSC-A32MN only	
Night setback (outdoor unit at lower noise level)	-	
Temperature setback	-	
GENTLE COOL function (summer comfort)	-	
Adjust the temperature differential in Heating mode	-	
Auto Heating/Cooling mode	● by indoor unit / unit or block	
View energy consumption	-	
View operating hours	● by indoor unit/ unit or block	
Demand control	● (reduce the electical consumption of the outdoor unit following a weekly schedule or using an external signal (contact on the central controller))	
Advanced maintenance features — Error code log	● (up to 100: show error code, date and time of the failure, unit(s) affected	
After-sales contact details	●	
Reset Filter LED	● by indoor unit / unit or block	
Set optional functions (installer menu)	●	

airCloud Pro

You're in control

(NEW)

IoT technology

24/7 control at your fingertips, via your smartphone app or web

Intuitive simplicity

airCloud Pro is designed to make it easier for you. This open-access mobile app makes it easier than ever to manage your air-conditioning systems.

Control from anywhere

Enjoy remote access from your smartphone or PC. airCloud Pro lets you remotely control an unlimited number of variable coolant flow systems (VRF) from a single app, which means you can stay right where you are.

Ideal applications

OFFICE | SCHOOL / UNIVERSITY | FACTORY / WAREHOUSE | HOSPITAL | HOTEL | RETAIL | RESTAURANT

Technical speification C€	HC–IOT GW
Dimensions (W x H x D)	138 x 200 x 41 mm
Net weight	540 g
Connection capacity	16 outdoor units + 64 indoor units
Power supply	230V | 50Hz
Max. power consumption	10W
Communication port	1 H-Link, 1 port RS485
Internet connection	Local network (Ethernet) or 4G[3]
External interface (data storage)	1 micro SD card slot

A simple yet powerful tool

Make your life easier

Central control
Control either the entire VRF system or specific zones all at the touch of a button.

Simplified troubleshooting
Clear error code history, brief summary of the problem, and reminder to clean filter.

Smartphone alerts
To report any serious malfunction.

Flexible user management
Add unlimited users and customise access restrictions.

1

Save more energy

Energy consumption data
View your electricity consumption in simple graphs to monitor the units with heavy-usage in your system (available in 2022).

Intuitive planning
Plan service visits around your working day and exceptions such as holidays.

Individual controller lock
Block any inappropriate use by occupants.

2

Create a pleasant climate

Easily adjust the **temperature, fan speed, and operating modes** for complete comfort and an ideal ambient climate throughout the building.

A **built-in weather forecaster** helps you define the conditions most suited to different indoor spaces throughout the year.

3

Plug & play system

The airCloud interface makes installation easy.
Just connect to airCloud via the **3G/4G[2] or Ethernet** network and pair your VRF systems by scanning the QR code. With **automatic detection of indoor units** and an optimised installer view, configuring your site and zones has never been quicker.

4

+ data security

- **The highest standards:** Protocol TLS v1.2, HTTPS 2038 encryption

- **Minimal personal information requested:** You only need your name, email address, and phone number to log in

- **Regularly updated and enhanced with new features,** airCloud Pro ensures you're always up to date.

+

How airCloud Pro works

air Cloud Pro

Ethernet or 3G/4G network[2]

H-LINK

From the internet or mobile app

airCloud interface

To your VRF system

Compatible with old and new Hitachi variable refrigerant flow systems [1]

Available on the App Store

ANDROID APP ON Google Play

Go to: **aircloudproapp.com**

[1]Check the compatibility of your VRF system with your Hitachi Cooling & Heating representative.
[2] 4G module available (second half of 2021) as an accessory.

airCloud Pro features

		airCloud Pro
Interface features	Indoor units per interface	64 indoor units
	Outdoor units per interface	16
	Interface per H-Link	1
	Max. amount of indoor units per user interface	Unlimited (with multiple interfaces)
	Cloud access	●
	Web application	●
	Mobile app	●
Connectivity	Prime connectivity	Ethernet
	4G connectivity	Option (available second half of 2021)
	Interface updated remotely online	●
	10 years of connection fees	●
System access	Main access	Cloud
	Local access or emergency access to configuration if server access is down	● With limited features
	Remote access	●
	Type of server	Cloud
	Internet connection mandatory	●
User and site management	Multi-user management	●
	User accounts with limited access to indoor units / functions	-
	Multi-site management	●
Basic functions	Basic indoor unit control	Start/Stop
		Heating/Cooling mode
		Setpoint temp.
		Fan speed
		Remote control lock
		Setup remote control groups
	Zone management	Create unlimited zones
	Installation dashboard	●
	Weekly programming	●
	Reset filter sign	●
	Alarm log	●
Languages	App languages	English
		French
		German
		Italian
		Portuguese
		Spanish

Selection guide
CSNet centralized controls

The CSNET range comes in two versions: a WEB version that offers flexibility and a touchscreen version for usability.
This range is ideally suited to the needs of any size project:
from small to large commercial buildings. It offers more functionality than any other range on the market as standard without add-ons. Installation is quick and easy.
Guided configuration makes things even easier.

Central control

Centralised control with touchscreen

CSNET Manager 2T10 / 2T15
+ HC-A64NET interface

Manage up to 1,024 indoor units.
Manage 1 to 64 indoor units per HC-A64NET gateway and up to 16 gateways via CSNET. The HC-A64NET gateway can be replaced with CSNET Lite.
Comes with a 10" (2T10) or 15" (2T15) screen.
- True maintenance tool: mail notifications, alarm log, data archive.
- Multi-site remote management and control tool with the web server function.
- Tool for managing and breaking down energy consumption.
- Interlock option: smart programming of IFTTT actions.
- Compatible with Fidélio software: perfect for the hotel industry.
Interface compatible with smartphones, tablets, PCs connected to the local network or or via the web.

New features
- Next-generation touchscreen for a more enjoyable user experience.
- New, more intuitive responsive user interface that offers the same features on any screen.
- Wizard function for easier, faster commissioning.
- Master/slave operation of indoor units: no electrical wiring needed for a more flexible and less expensive installation.

Ideal for managing large installations with maximum comfort for occupants and ease of access for maintenance teams.

Accessories
Wall bracket – Part no.: WALL SUPPORT 2
Base – Part no.: STAND SUPPORT

Centralised control, Web version

CSNET Manager SL +
 interface HC-A64NET

Manage up to 1,024 indoor units.
Manage 1 to 64 indoor units on the HC-A64NET gateway and up to 16 gateways via CSNET. The HC-A64NET gateway can be replaced with CSNET Lite.
With the same features as the CSNET Manager 2T10/2T15, this SL version is a web version.
System control is done on smartphone, tablet, or PC only, connected to the local network or via the web.

New features
- More flexible installation: Ethernet port, 2 USB ports, HDMI port.

Ideal for managing large facilities.

Accessory
DIN rail support

Centralised control standalone web version

CSNET Lite

Standalone gateway to run up to 64 indoor units.
Has limited functionality of CSNET Manager 2.
Compatible with smartphones, tablets, PCs connected to the local network or via the web. For multi-site monitoring, CSNET Lite is compatible with CSNET Manager 2T10/2T15 and SL

Ideal for managing small and medium-sized facilities.

With this CSNET range, you can manage 1 to 64 indoor units on the interface and up to 1024 indoor units, locally or remotely on the WEB.

CSNET Manager 2 is a management and monitoring interface for Hitachi heating and air-conditioning systems. It features new touchscreen technology as well as a responsive display, for an improved user experience.

The CSNET Manager 2 T10 / 2 T15 range, includes 2 screens, 10" and 15".

The system is managed on two H-Link interfaces of your choice, HC-A64NET or CSNET Lite, capable of managing up to 64 indoor units. CSNET Manager 2 can manage up to 16 H-Link interfaces.
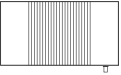
For installation extensions, CSNET Manager 2 is also compatible with the old CSNET Web (limited for certain options).

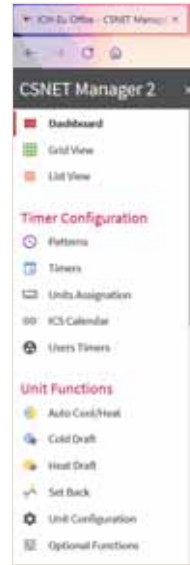The 320 GB storage capacity allows you to store a virtually unlimited amount of system applications and histories.

Selection guide to CSET centralized controls

		WEB version with touchscreen **CSNET Manager 2T10/ 2T15**
Selection	Max. number of indoor units per H-Link interface	Up to 64
	Max. number of indoor units	Up to 1,024
	Max. number of outdoor units	64 outdoor units per interface
	Touchscreen	● 2T10(10") / 2T15 (15")
	Web server	●
	Compatible user interfaces	Smartphone Tablet PC equipped with a web browser
	Compatible BMS	● MODBUS interface included as standard KNX - BACNET via dedicated interfaces
Advanced management features	Number of user access levels	Unlimited
	Create monitoring zones (e.g multiples tenants)	●
	Energy consumption monitoring	●
	Energy consumption distribution breakdown	●
	Demand control	●
	Compatible with MICROS FIDELIO	●
	Unlimited annual programming integrating public holidays and leave	●
	Annual calendar synchronized with Outlook	●
	Set the optional functions of indoor units	● with up-to-date HLINK interfaces (CSNET Lite v2.0 or HC-A64NET v2.0)
	Master/Slave control	●
	MODBUS compatibility included	●
	Interlock function (IFTTT concept)	●
	Hotel applications (window contact & temperature setback settings)	●
Advanced display features	Floor plan schematic upload	● (image format)
	Virtual individual remote control	● (control, display ambient T)
Advanced comfort features	Set Back (frost protection)	●
	GENTLE COOL (summer comfort)	●
	Heat Draft (winter comfort)	●
	Demand control	●
	Night setback (lowers noise of outdoor unit)	●
Maintenance features	Fault notifications by email	●
	Operating history	2Gb
	Error log	6 months
	Emergency stop button	-
	Fault indicator button	-
	Check mode (view system parameters)	●
	Refrigeration diagram showing technical data	●
	Wizard (commissioning assistant)	●

CSNET Manager 2: Advanced management tool

WEB version CSNET Manager 2 SL	Standalone WEB version CSNET LITE
+ HC-A64NET	CSNET LITE
Up to 64	Up to 64
Up to 1,024	Up to 64
64 outdoor units per interface	64 outdoor units
-	-
●	●
Smartphone Tablet PC equipped with a web browser	Smartphone Tablet PC equipped with a web browser
● MODBUS interface included as standard KNX - BACNET via dedicated interfaces	● MODBUS interface included as standard KNX - BACNET via dedicated interfaces
Unlimited	Unlimited
●	●
●	●
●	●
●	●
●	-
●	●
●	-
● with updated HLINK interfaces (CSNET Lite v2.0 or HC-A64NET v2.0)	●
●	●
●	●
●	● (limited actions)
●	-
● (image format)	-
● (manage, display ambient T)	● (manage, display ambient T)
●	●
●	●
●	●
●	●
●	●
●	●
2Gb	256 Mb
6 months	6 months
-	●
-	●
●	●
●	●
●	●

New user + ergonomic interface

Menu

A unique menu zone for more intuitive navigation

An intuitive dashboard: 3 available formats

Dashboard

Icon view

List view

CSNET Manager 2:
Advanced management tool

Stand out with quality service

Maintenance is essential because it ensures a long term life cycle of the system. Preventing faults and being responsive in the event of a fault by reducing intervention time with remote analysis tools are the key to meeting end user requirements.
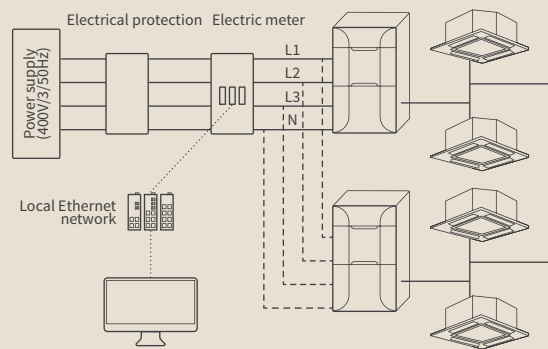
Better control of energy consumption

To offer its customers a secure solution, HITACHI has fully tested and validated select meters with CSNET Manager and VRF systems in the factory. This standard feature allows you to measure, record, and display the energy consumption of all or some of the indoor units and outdoor units managed by CSNET.
This consumption is shown in kWh or in £/€ if the user enters their hourly energy cost.

SIEMENS 7KM PAC3200

SOCOMEC Countis E27 & E28

Electrical protection   Electric meter
Power supply (400V/3/50Hz)
L1
L2
L3
N
Local Ethernet network

Monitoring energy consumption means first and foremost access to information. Various interfaces are available in the 2021 version of CSNET, offering different dashboards with different levels of analysis: from general to specific, monthly to daily.

This feature also allows for multiple tenants to distribute energy consumption per user and by use (Heating or Cooling mode).

On board security:
Interlock function

The embedded interlock function, standard in all CSNET interfaces, allows a multitude of interlock scenarios to be easily programmed, providing automated safety in more industrial applications.

For example, a backup air-conditioning unit installed in a server room can be automatically switched on in case of a temperature deviation: If the ambient temperature > 20°C unit 2 will start up with a set point of 18°C.

New feature:
Server room management feature in CSNET Manager version 2.0

Fault alerts

An email server can send an email alert if an error code appears on the system.

An alarm log is automatically generated by CSNET Manager 2 as soon as the first fault occurs. This log can be exported at any time.

Have remotely accessible analytics tools via the WEB SERVER function for PC, tablet, or smartphone

Access the installation's operating history. These configurable reports allow the user to plot graphs monitoring how the system performs at chosen settings and to create intervention reports.

Investigate a discomfort complaint reported by a customer and solve it remotely by changing operating settings.

A new Customer Experience with a unique and customizable level of comfort

Air off temperature setting, GENTLE COOL

This feature provides unsurpassed comfort levels for every user in Cooling mode by giving them the option to set their own tailored air off temperature.

- With CSNET, Cold drafts that can be a source of discomfort in the summer are a thing of the past in offices, thanks to the option of selecting a high air off temperature.
- With CSNET, an occasionally occupied meeting room can be quickly brought up to temperature by using an unlimited annual schedule synchronized with the calendar in Outlook.

Hotel function

This intelligent on-board programming function, included as standard in all CSNET interfaces, can combine several input signals triggering actions according to IFTTT logic.

- This function can customize comfort levels in rooms, both in summer and winter. When a guest arrives in their room (key insertion), a predetermined setpoint temperature can be activated.
- When opening the bedroom window, the indoor unit can be stopped or the set point adjusted.

Application for hotel rooms

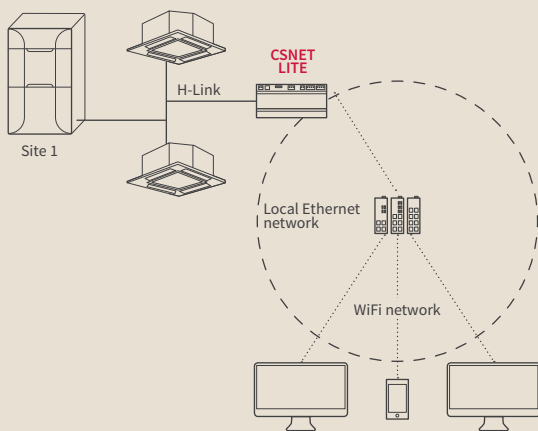- The CSNET is also compatible with MICRO FIDELIO software.

micros FIDELIO
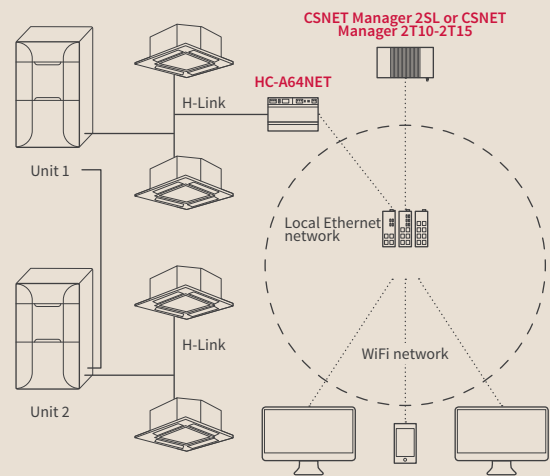
Manage your spare parts with Hi Parts
Log in any time, 24/7.

CSNET wiring

An example of a small site setup (< 64 indoor units)

CSNET LITE

H-Link

Site 1

Local Ethernet network

WiFi network

Site 1: Access the local network with a **screenless interface**.
Access from a computer, a smartphone on the same local network, or via the web.

An example of a medium site setup (> 64 indoor units)

CSNET Manager 2SL or CSNET Manager 2T10-2T15

HC-A64NET

H-Link

Unit 1

Local Ethernet network

WiFi network

H-Link

Unit 2

For large-scale systems, you can install up to 16 interfaces on an H-Link bus to run up to 16 x 64 indoor units (or 1,024 indoor units).

Site 2: Access the local network with a **screenless interface**.
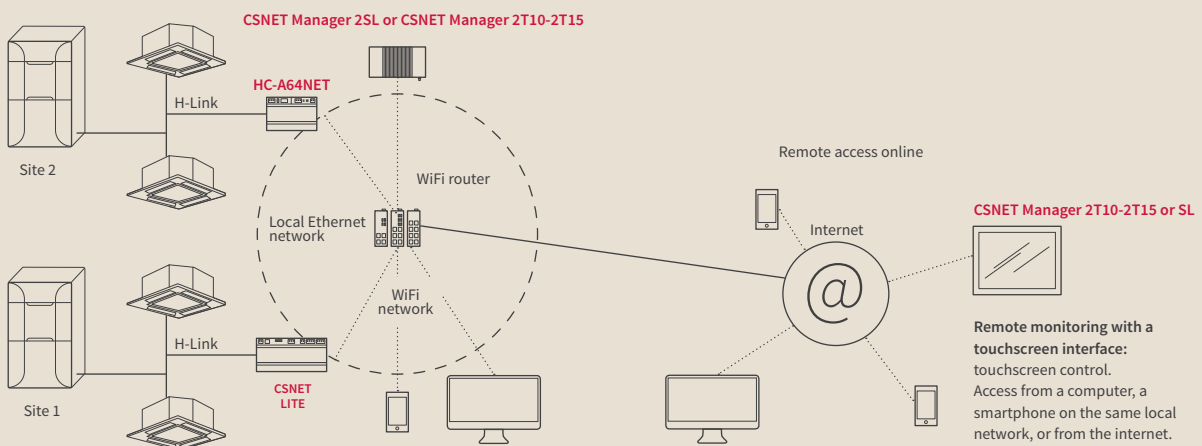Access from a computer, a smartphone on the same local network, or via the web.

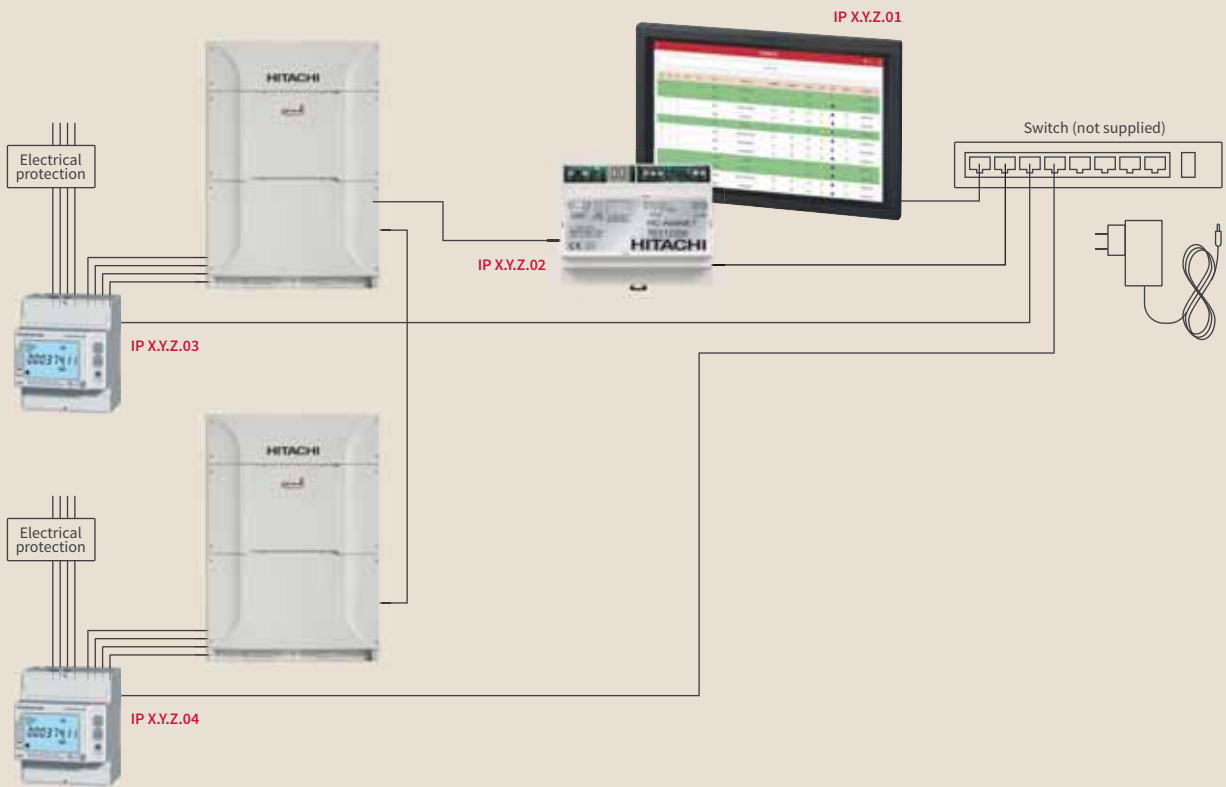## Example of the setup of 2 separate sites equipped with VRFs with centralized CSNET control and monitored remotely

CSNET Manager 2SL or CSNET Manager 2T10-2T15

HC-A64NET

H-Link

Site 2

WiFi router

Local Ethernet network

WiFi network

CSNET LITE

H-Link

Site 1

Remote access online

Internet
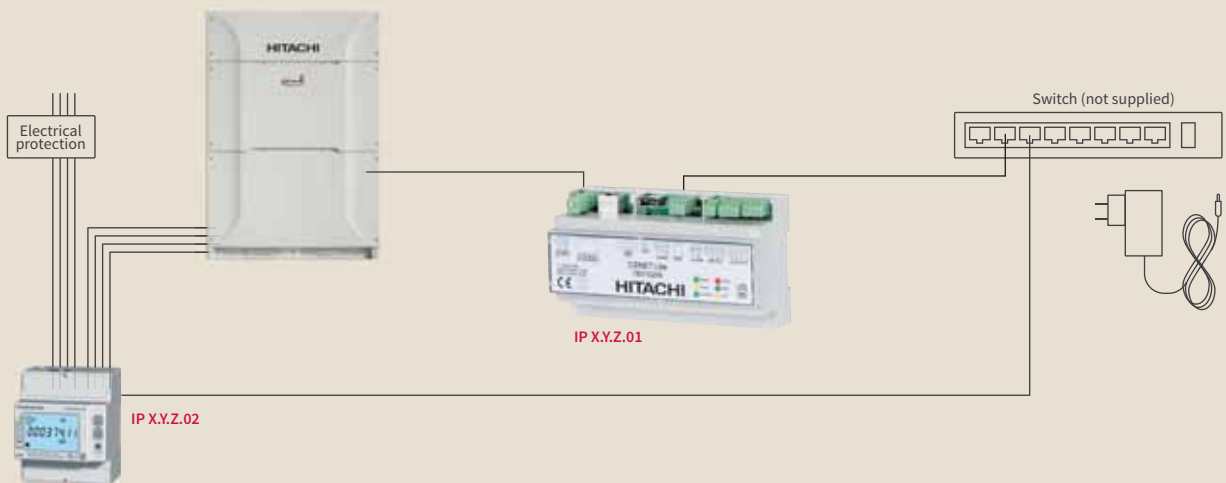
@

CSNET Manager 2T10-2T15 or SL

Remote monitoring with a touchscreen interface:
touchscreen control.
Access from a computer, a smartphone on the same local network, or from the internet.

Connection of a CSNET Manager 2 T10 + 2 energy meters

2 separate VRF units = 2 refrigeration cycles

IP X.Y.Z.01

Switch (not supplied)

Electrical protection

IP X.Y.Z.02

IP X.Y.Z.03

Electrical protection

IP X.Y.Z.04

Connection of CSNET Lite + 1 energy meter

Switch (not supplied)

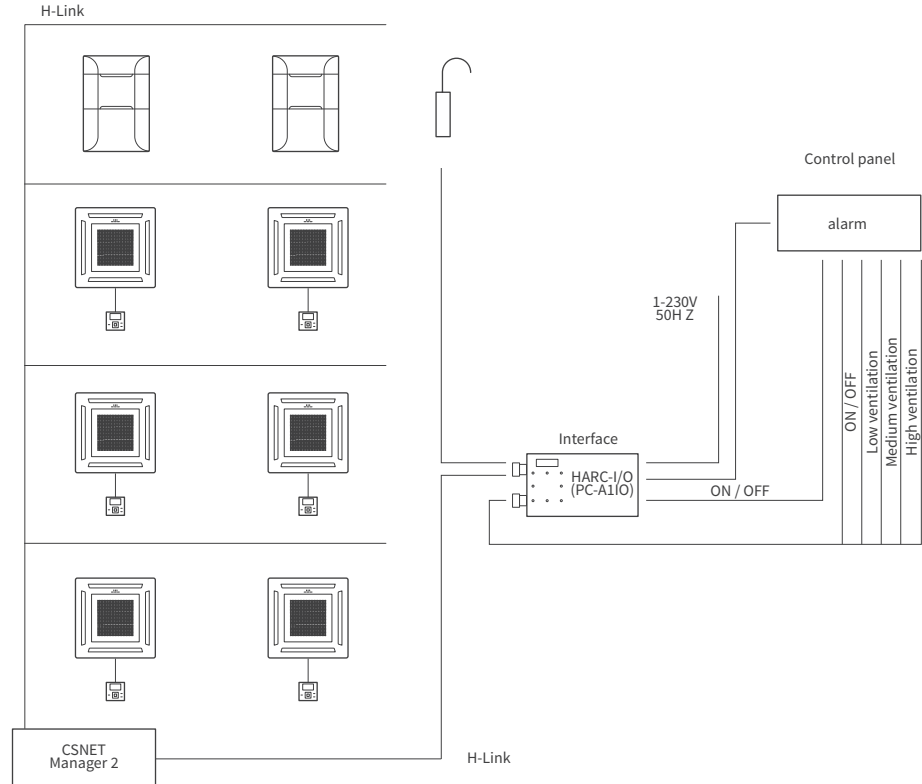Electrical protection

IP X.Y.Z.01

IP X.Y.Z.02

HARC-I/O interface (part no. PC-A1IO)
to manage and communicate
with third-party equipment

This interface integrates external equipment such as AHUs or ventilation units into a Hitachi system and controls them like Hitachi appliances via CSNET. E.g.: Ventilation, air handling unit, cooling units, etc.

Functions:

- DI1: M/A management via dry contact.
- DI5: error display via dry contact.
- The interface should be addressed as an additional indoor unit of the outdoor unit.

H-Link

Control panel

alarm

1-230V
50H Z

Interface

HARC-I/O
(PC-A1IO)

ON / OFF

ON / OFF

Low ventilation

Medium ventilation

High ventilation

CSNET
Manager 2

H-Link

Communication interfaces

HITACHI offers a full range of communication interfaces with most open protocols on the market.

Fire alarm

Lighting

Ventilation

Air-handling units

H-Link

BMS

Communication interface
MODBUS or KNX or BACNET or LONWORKS
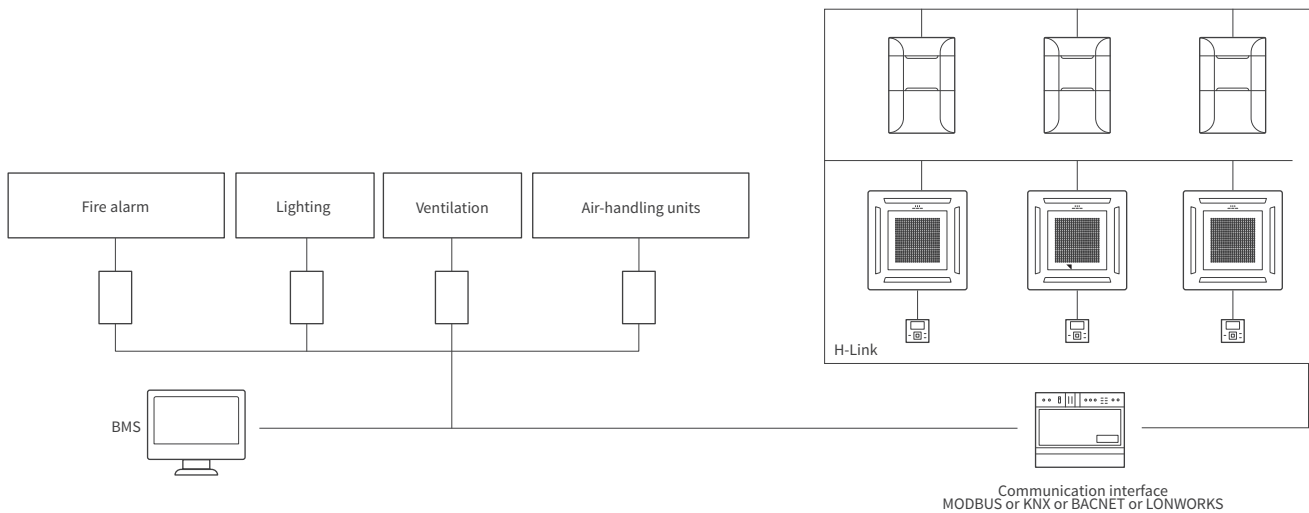
Open protocols

MODBUS® protocol (Modbus® RTU or TCP/IP)

Most centrally managed sites with BMS feature a Modbus® connection.
HITACHI interfaces manage 8, 16 or 64 units per gateway.
They connect at any point on the H-link bus.
They are RTU or IP in auto-detection.
Economic BMS solution: perfect for medium and small public sector buildings.

KNX protocol

KNX® is a "building"-dedicated bus, standardized and independent of manufacturers (lighting, heating, security, energy management, metering, etc.).
New certified interfaces manage 16 or 64 units each.
Based on standard buses, EIB, EHS, Batibus, KNX® guarantees the interoperability of products bearing the KNX® logo. It is an ISO standard.
BMS solution: perfect for medium and large commercial buildings.

BACnet®/IP protocol

The widely used BACnet/IP was designed to allow the protocol to use TCP/IP networks.
New certified interfaces directly manage 16 or 64 units each.
BMS solution: perfect for large commercial buildings.

LONWORKS protocol

Created by ECHELON CORPORATION, Lonworks is a recognized and accepted standard in Building Management (IEA 709.1/2/3).
These interfaces manage 32 or 64 units each.
The interoperability of equipment makes it possible to provide facilities with better thought-out services and maintenance.
BMS solution: perfect for medium and large public sector buildings.

Interface references

HC-A16MB (16 indoor units)

HC-A64 MB (64 indoor units)

HI-AC-KNX-16 (16 indoor units)

HI-AC-KNX-64 (64 indoor units)

HI-AC-BAC-16 (16 indoor units)

HI-AC-BAC-64 (64 indoor units)

HARC-BXE(B) (32 indoor units)

HARC-BXE(A) (64 indoor units)

(end-of-life product, limited stock).