

# SET FREE Σ

**VARIABLE REFRIGERANT FLOW**  
**AIR SOURCE HEAT PUMP TYPE**  
**HNCQ SERIES**



Company Name

CUSTOMER SERVICE

SALES OFFICE

SPARE PARTS

DISTRIBUTOR

CERTIFICATION

WARRANTY

SOCIAL MEDIA



Cooling & Heating



# Welcome

## Air. It's a wonderful thing.

Invisible, silent and life-giving, air makes our entire world possible. It surrounds us, continuously energizing, cooling and warming. It can be unpredictable and sometimes challenging, but when air is in harmony with us, everything seems that much easier.

**This is our vision.  
To create the air that makes life better.**



## The beauty of balance

No matter what the weather is like outside, when you're indoors, you want to have complete control over your environment. At work or play, awake or asleep, you're free to create your own atmosphere; balancing energy with calm, sound with silence and light with shade. It's the same for cooling and heating.

**When the air around you is in balance,  
you can enjoy life indoors that much more.**

## Living Harmony

At Hitachi Cooling & Heating we like to think of this as creating harmony with your interior environment. When we achieve that wonderful balance, productivity, learning, happiness and health can thrive.

**We call this 'Living Harmony' and it's at the center of everything we do.**



## The future together

Living Harmony puts people first. By balancing the human needs of our customers with an uncompromising approach to innovation and quality, we can continue to create the technologies for a more comfortable and balanced world.

**Your world. We live in it together.**





# Your world and Hitachi

## Change in the air.

Change is one of the few constants in life. The world around us changes continuously and as it does, so do our own comfort levels and our requirements of our buildings.

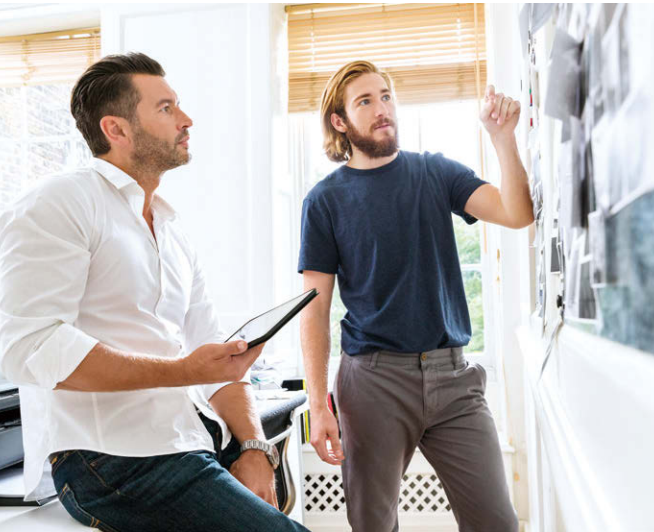
Creating harmony in the face of change has always been the driving force behind Hitachi Cooling & Heating. From maintaining a perfect indoor climate indoors as the seasons change, to developing new technology to address the needs of our changing cities, we're committed to solutions that help people adapt to changes today and in the future.



## Design for tomorrow's urban spaces.

Space in our cities is under increasing pressure and as new buildings become more space efficient, the areas allocated to cooling and heating are shrinking. We are responding to these changes with a new generation of space-efficient outdoor units, giving architects, building managers and owners greater levels of flexibility.

—  
Learn more about Outdoor Unit on page 07



SET FREE Σ HNCQ series

## Redefining comfort.

Comfort can be felt in a variety of ways, from the temperature to quietness and even the air flow itself. Our wide-ranging lineup of indoor units can meet various comfort requirements. We offer two different types of ventilation units, and optional motion sensors are also available for superior energy saving.

—  
Learn more about Indoor Unit on page 29



YOUR WORLD AND Hitachi

## You are in control.

Whether you wish to create a relaxing atmosphere in your home, improve productivity at work or manage the energy and maintenance costs for your building, We gives you the technology to achieve your goals. From setting individual climate zones in every room, to centralized monitoring and reporting for multiple buildings.

—  
Learn more about Controller on page 53







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# Raising the standard

The path to creating your perfect indoor environment begins outdoors with Hitachi Cooling & Heating's range of outdoor units — the first step toward achieving Living Harmony. Protected by lighter and stronger compact cabinets and powered by the world's most advanced compressor controller technology, the next generation SET FREE  $\Sigma$  outdoor units deliver superior performance, maximum installation flexibility and ease of maintenance.



LINE UP OVERVIEW

Widest Range: from 8 to 96HP class

The HNCQ Series is newly launched with a wide range of models in its lineup, as well as a variety of performance enhancements in design, power and economy. Select the product(s) most suitable for your application, either as a single unit or a combination of single units.

(HP Class/Cooling Capacity/Heating Capacity/Net Weight)



1,725mm  
958mm 782mm

**8HP Class**/22.4kW/25.0kW/225kg  
**10HP Class**/28.0kW/31.5kW/226kg  
**12HP Class**/33.5kW/37.5kW/248kg



1,725mm  
1,218mm 782mm

**14HP Class**/40.0kW/45.0kW/308kg  
**16HP Class**/45.0kW/50.0kW/310kg  
**18HP Class**/50.0kW/56.0kW/356kg



1,725mm  
1,608mm 782mm

**20HP Class**/56.0kW/63.0kW/390kg  
**22HP Class**/61.5kW/69.0kW/415kg  
**24HP Class**/68.0kW/75.0kW/416kg



1,725mm  
2,196mm 782mm

**26HP Class**/73.0kW/81.5kW/536kg  
**28HP Class**/78.5kW/87.5kW/558kg



1,725mm  
2,456mm 782mm

**30HP Class**/85.0kW/95.0kW/618kg  
**32HP Class**/90.0kW/100.0kW/620kg  
**34HP Class**/95.0kW/106.0kW/666kg



1,725mm  
2,846mm 782mm

**36HP Class**/101.0kW/113.0kW/700kg  
**38HP Class**/106.5kW/119.0kW/725kg  
**40HP Class**/113.0kW/125.0kW/726kg  
**42HP Class**/118.0kW/131.0kW/772kg



1,725mm  
3,236mm 782mm

**44HP Class**/124.0kW/138.0kW/806kg  
**46HP Class**/129.5kW/144.0kW/831kg  
**48HP Class**/136.0kW/150.0kW/832kg



1,725mm  
3,694mm 782mm

**50HP Class**/140.0kW/156.0kW/976kg



1,725mm  
4,084mm 782mm

**52HP Class**/146.0kW/163.0kW/1,010kg  
**54HP Class**/151.5kW/169.0kW/1,035kg  
**56HP Class**/158.0kW/175.0kW/1,036kg  
**58HP Class**/163.0kW/181.0kW/1,082kg

Single module  
up to 24HP class!

Whole range  
up to 96HP class!



1,725mm  
4,474mm 782mm

**60HP Class**/169.0kW/188.0kW/1,116kg  
**62HP Class**/174.5kW/194.0kW/1,141kg  
**64HP Class**/181.0kW/200.0kW/1,142kg  
**66HP Class**/186.0kW/206.0kW/1,188kg



1,725mm  
4,864mm 782mm

**68HP Class**/192.0kW/213.0kW/1,222kg  
**70HP Class**/197.5kW/219.0kW/1,247kg  
**72HP Class**/204.0kW/225.0kW/1,248kg



1,725mm  
5,322mm 782mm

**74HP Class**/208.0kW/231.0kW/1,392kg



1,725mm  
5,712mm 782mm

**76HP Class**/214.0kW/238.0kW/1,426kg  
**78HP Class**/219.5kW/244.0kW/1,451kg



1,725mm  
6,492mm 782mm

**80HP Class**/224.0kW/252.0kW/1,560kg  
**82HP Class**/229.5kW/258.0kW/1,585kg  
**84HP Class**/236.0kW/264.0kW/1,586kg  
**86HP Class**/241.5kW/270.0kW/1,611kg  
**88HP Class**/248.0kW/276.0kW/1,612kg



1,725mm  
6,492mm 782mm

**90HP Class**/253.5kW/282.0kW/1,637kg  
**92HP Class**/260.0kW/288.0kW/1,638kg  
**94HP Class**/265.5kW/294.0kW/1,663kg  
**96HP Class**/272.0kW/300.0kW/1,664kg

SUMMARY TABLE

Item		Unit	HNCQ Series
Capacity	HP class		8-96
	Nominal Cooling	kW	22.4-272.0
	Nominal Heating	kW	25.0-300.0
Maximum connectable indoor unit quantity			13-64
Combination capacity ratio between ODU and IDU		%	50-130
Maximum piping length	Total piping length		m 1,000
	Refrigerant piping length	Actual	m 165
		Equivalent	m 190
	Between piping connection kit and each outdoor unit		m 10
	Between 1st branch multi kit and farthest indoor unit		m 90
	Between multi kit and each indoor unit		m 40
	Between outdoor units (combination of base units)		m 0.1
Maximum level difference**	Between outdoor unit and indoor units	ODU above IDU	m 50 (standard)/up to 110m (custom order)
		IDU above ODU	m 40
	Between indoor units		m 30
Cooling operation range*		°C DB	-5.0 to 52.0
Heating operation range*		°C WB	-20.0 to 15.0

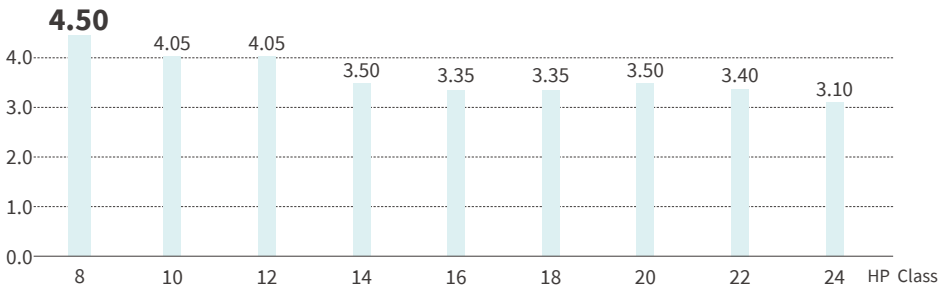
\* For more details, please consult your distributors or dealer, or, refer to technical catalogue.  
\*\* Concerning maximum level difference between ODU and IDU (ODU above IDU),  
Standard: up to 50 metre/Custom Order: up to 110 metre.  
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.  
Maximum level difference for 56-96HP class is 90 metre.



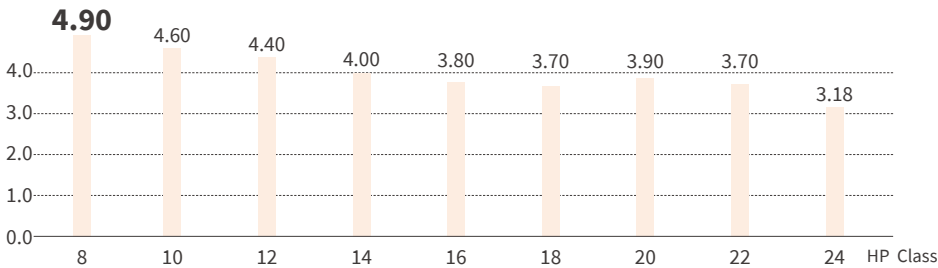
HIGH EFFICIENCY

EFFICIENCY RATIO

EER: Energy Efficiency Ratio



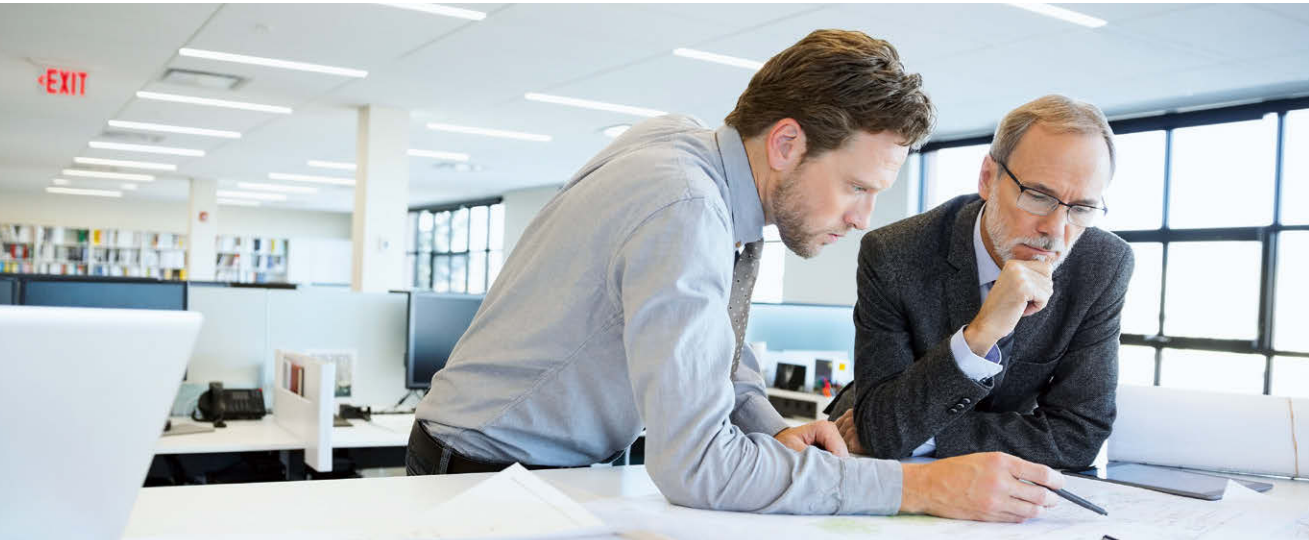
COP: Coefficient Of Performance



Notes:  
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.  
Cooling Operation Conditions  
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)  
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
Heating Operation Conditions  
Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)  
6.0°C WB (43.0°F WB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
2. Please see the technical catalogues for more details.

WHAT'S IMPROVED?

1) COMPRESSOR 2) HEAT EXCHANGER 3) AIR OUTLET

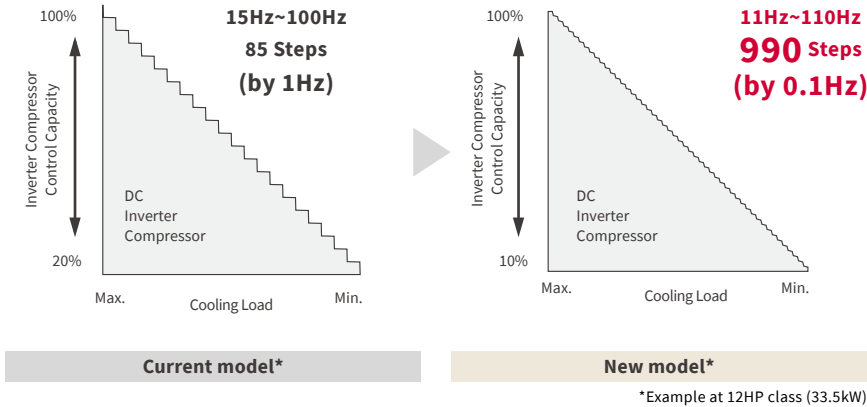


3 POINTS IMPROVEMENT

1) COMPRESSOR

Greater capacity control

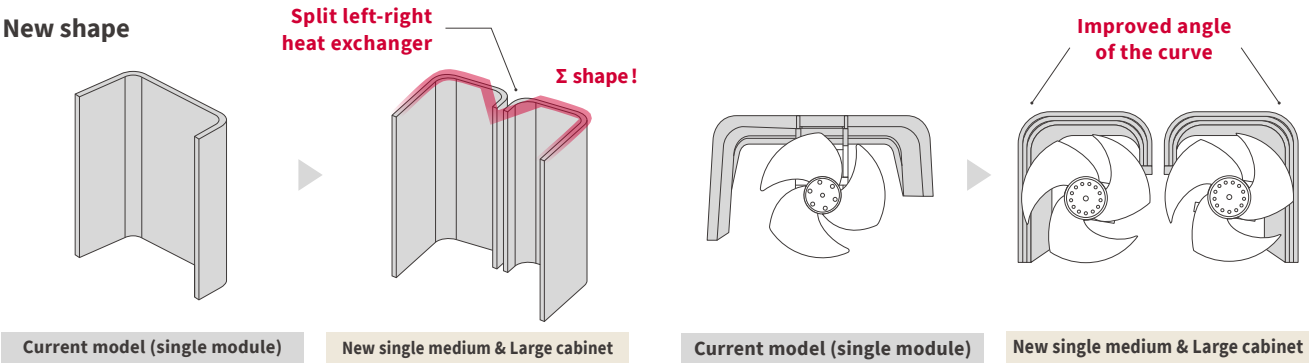
The highly improved performance as well as greater energy saving is achieved by adopting newly developed high efficiency DC inverter compressor, with outstandingly precise control technology of 0.1Hz increments inverter frequency. Another feature is the dramatically extended working range, enabled by expanding the compressor's operating frequency band, both upwards and downwards.



2) HEAT EXCHANGER

- The heat exchange area has been increased by more than **10%** (single module)
- Greater heat exchange efficiency

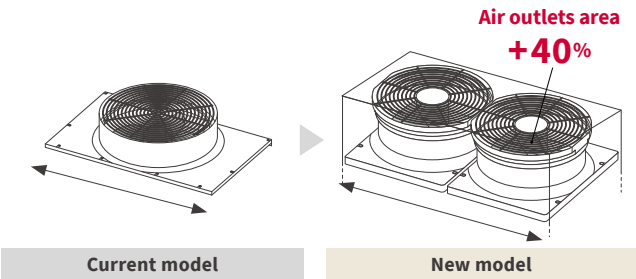
New shape



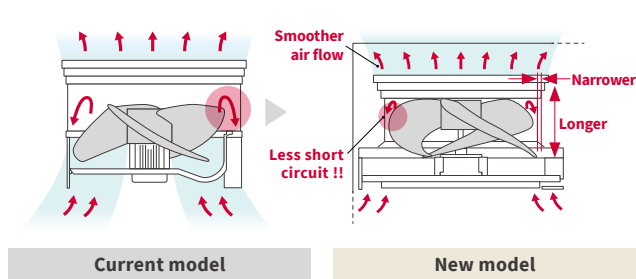
3) AIR OUTLET

- Improvement of airflow volume by **23%** (single module)
- Energy consumption in the driving shaft has decreased by **20%** on average

Expansion of air outlet



Improvement in air outlet





DESIGN FLEXIBILITY

EASY TRANSPORTATION

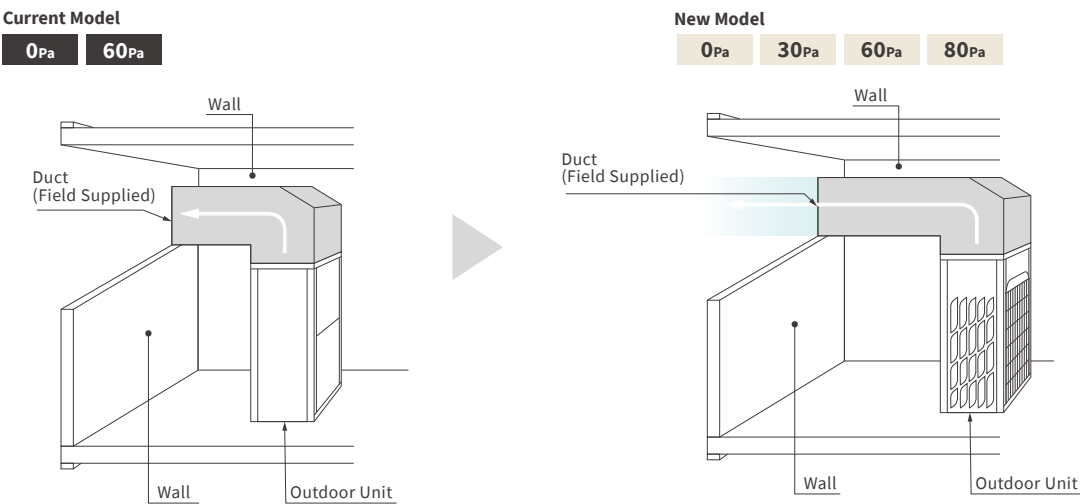
- Smaller cabinet

Can be transported in an elevator by pallet jack  
HNCQ: 18HP class (50.0kW)

24HP class (68.0kW)	Installation Space	-24.4% (1.67m <sup>2</sup> → 1.26m <sup>2</sup> )
	Product Weight	-17.8% (506kg → 416kg)

IMPROVED EXTERNAL STATIC PRESSURE

- Both more numbers of setting of ESP (up to 4), and, higher ESP (up to 80Pa) of outdoor unit, offer better options for the indoor installation of the outdoor unit, which leads to 3 benefits for you.
- Less piping length
  - Lower installation cost
  - Visual aesthetics



PIPING CONNECTION WORKABILITY

- Suitable for a high-rise building or complex facilities.
- Leads to cost/time saving for designers, with more efficient design.

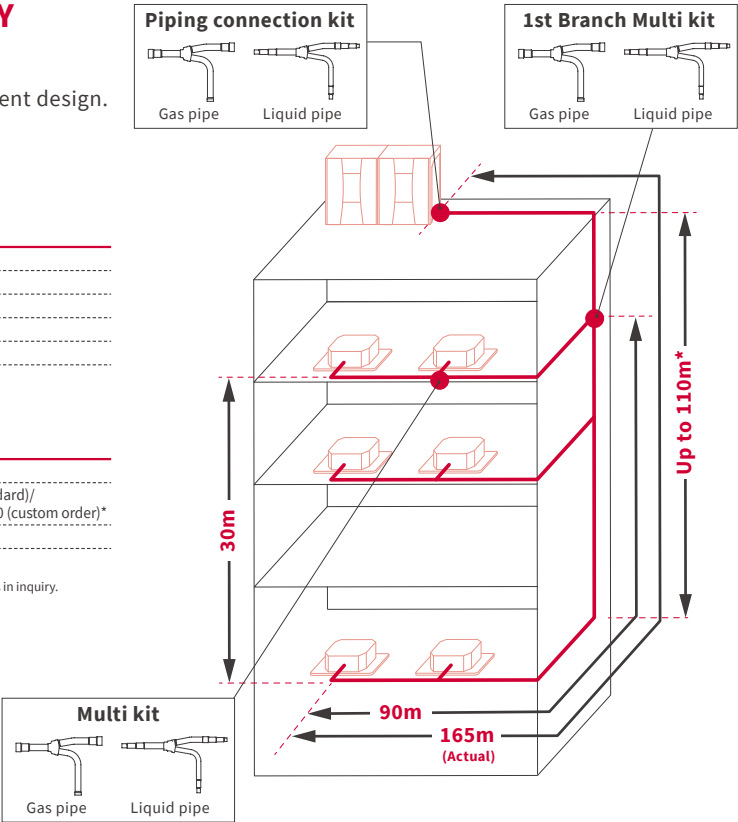
Maximum piping length

	Unit	
Total piping length	m	1,000
Refrigerant piping length	Actual	m 165
	Equivalent	m 190
Between "Piping connection kit" and each ODU	m	10
Between "1st branch Multi Kit" and farthest IDU	m	90
Between "Multi Kit" and each IDU	m	40

Maximum level difference

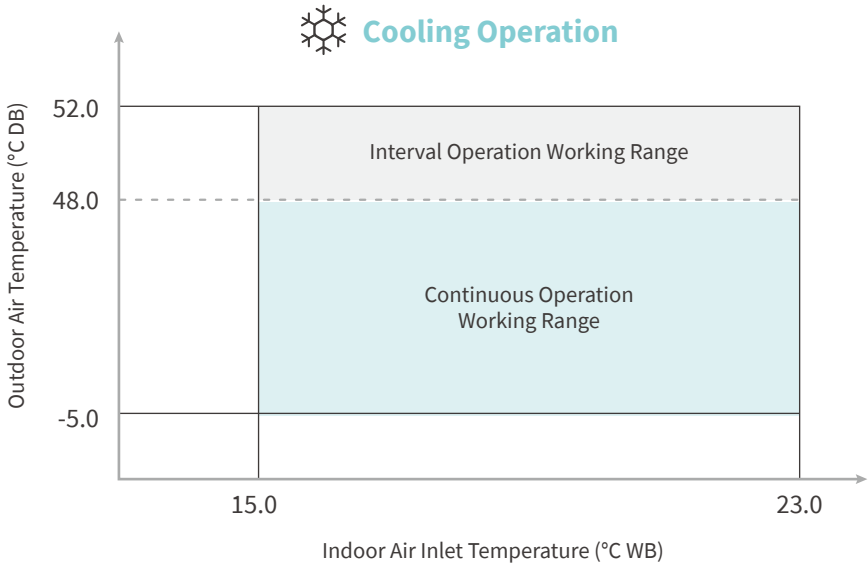
	Unit	
Between ODU (combination of base units)	m	0.1
Between ODU and iDU	ODU above iDU	m 50 (standard)/ up to 110 (custom order)*
	iDU above ODU	m 40
Between indoor units	m	30

Each maximum length or level difference has several conditions, please refer to the technical documents in inquiry.  
\* Standard: up to 50 metre/Custom Order: up to 110 metre.  
Longer piping (up to 110 metre) is available for 8 to 54HP Class models only.  
Maximum level difference for 56-96HP Class is 90 metre.



OPERATION TEMPERATURE RANGE

Enhanced performance in consideration of the actual installation environment of the outdoor unit



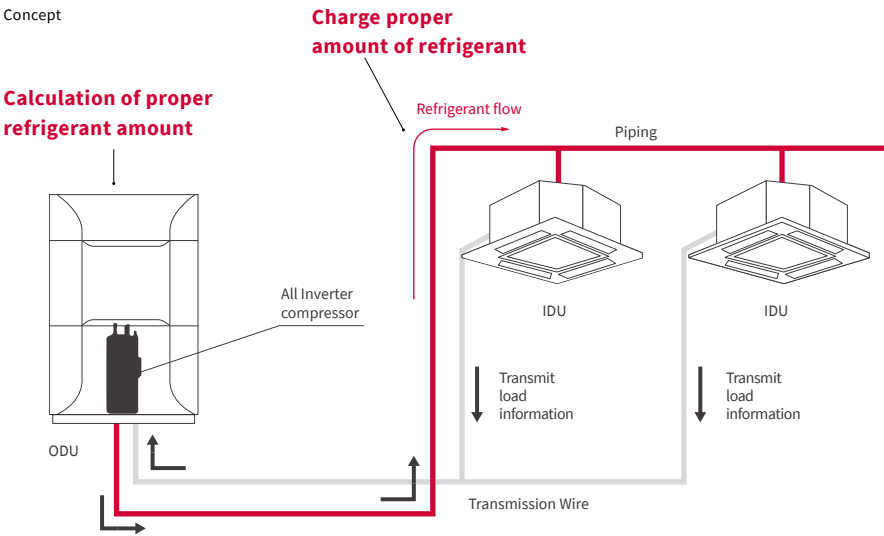


ADAPTABILITY

IMPROVED COMPRESSOR CONTROL

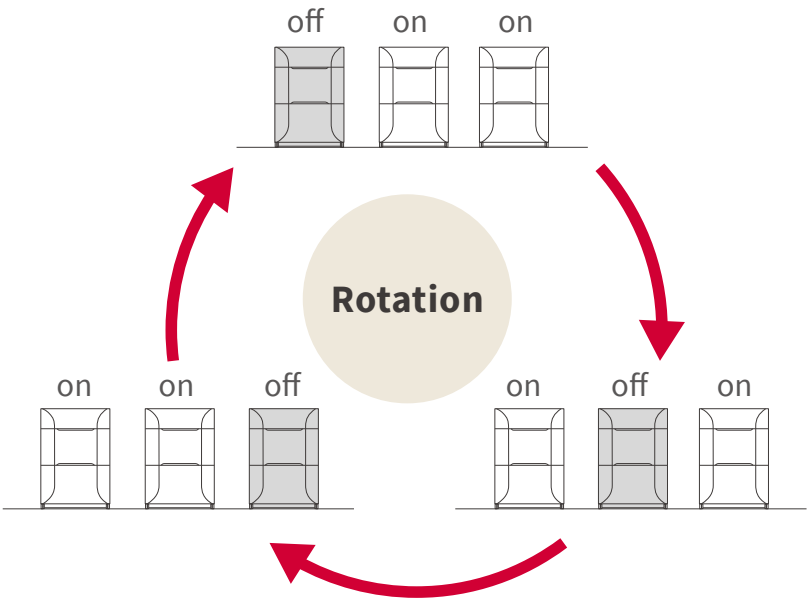
Smooth drive

The model calculates the appropriate amount of refrigerant supplied by the outdoor units on the basis of information about the required load from the individual indoor units. The model employs smooth operation control to control the number of revolutions of the inverter compressor. The model supplies the appropriate amount of refrigerant to the indoor units according to the required load. The model increases energy-saving efficiency by operating smoothly while controlling the switching on and off of the compressor at low-load operation.

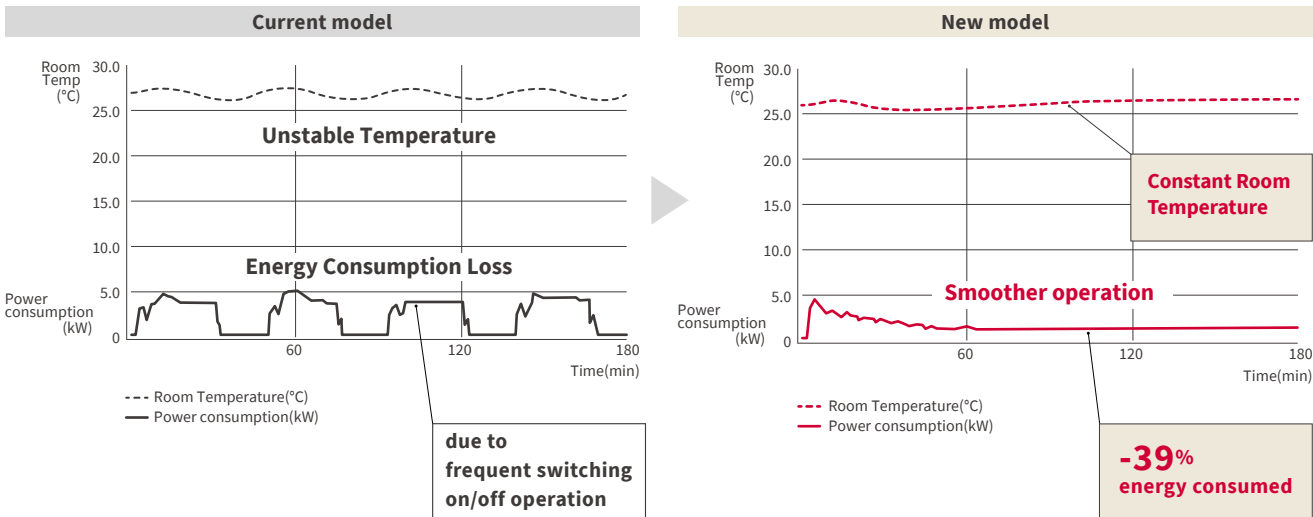


TO PREVENT FAILURE

Standardize the running time of the individual outdoor units and distribute the load by rotating the order of operation of the compressors of the outdoor units.

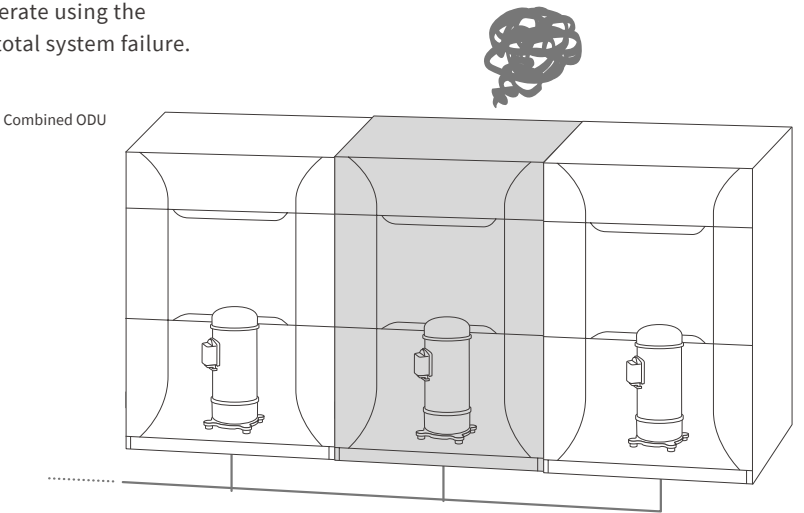


Actual example of the new compressor control






BACK UP FUNCTION

Full introduction of backup operation function. If one outdoor unit should fail, the model can continue to operate using the remaining outdoor units, thereby preventing total system failure.



SPECIFICATIONS

HP class											
			8HP class	10HP class	12HP class	14HP class	16HP class	18HP class	20HP class	22HP class	24HP class
Model	Unit		RAS-8.0HNBCMQ	RAS-10HNBCMQ	RAS-12HNBCMQ	RAS-14HNBCMQ	RAS-16HNBCMQ	RAS-18HNBCMQ	RAS-20HNBCMQ	RAS-22HNBCMQ	RAS-24HNBCMQ
Power Supply	V/Ph/Hz		380-415/3/50			380-415/3/50			380-415/3/50		
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	68.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0
Power Input	Cooling	kW	4.98	6.91	8.27	11.43	13.43	14.93	16.00	18.09	21.94
	Heating	kW	5.10	6.85	8.52	11.25	13.16	15.14	16.15	18.65	23.58
Air Flow Rate	Standard	m³/min	165	170	190	239	256	256	329	329	348
Dimension	H×W×D	mm	1,725×958×782	1,725×958×782	1,725×958×782	1,725×1,218×782	1,725×1,218×782	1,725×1,218×782	1,725×1,608×782	1,725×1,608×782	1,725×1,608×782
Weight	Net	kg	225	226	248	308	310	356	390	415	416
Footprint Area		m²	0.75	0.75	0.75	0.95	0.95	0.95	1.26	1.26	1.26
Packaging Volume		m³	1.62	1.62	1.62	2.03	2.03	2.03	2.67	2.67	2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	5	5	7.2	8.9	9.9	10.7	11.3	11.3	12.6
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	6.00	6.00	6.00	6.90	6.90	7.90	8.40	8.40	8.40
Number of Fan Motors			1	1	1	2	2	2	2	2	2
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	57	58	59	60	61	61	62	63	63
	Semi-anechoic	dB(A)	60	61	62	63	64	64	65	66	66
Piping	Liquid	mm	φ9.52	φ9.52	φ12.70	φ12.70	φ12.70	φ15.88	φ15.88	φ15.88	φ15.88
	Gas	mm	φ19.05	φ22.20	φ25.40	φ25.40	φ28.58	φ28.58	φ28.58	φ28.58	φ28.58
Current	Max	A	17.0	23.0	27.0	31.5	35.5	43.5	45.0	52.0	61.5
	Breaker	A	25	32	32	40	50	50	63	63	80
	Cooling	A	8.5	11.8	14.0	18.9	22.1	25.2	26.9	30.1	36.5
	Heating	A	8.7	11.7	14.5	18.5	21.6	25.5	27.4	31.0	39.3
Efficiency	EER	W/W	4.50	4.05	4.05	3.50	3.35	3.35	3.50	3.40	3.10
	COP	W/W	4.90	4.60	4.40	4.00	3.80	3.70	3.90	3.70	3.18
The max IDU connect qty.			13	16	19	23	26	26	33	36	40
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length	Actual	m	165	165	165	165	165	165	165	165
		Equivalent	m	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit	m	10	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit	m	90	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit	m	40	40	40	40	40	40	40	40	40
Between outdoor units (combination of base units)			m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Maximum level difference	Between outdoor unit and indoor units	ODU above IDU(*)	m	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)
		IDU above ODU	m	40	40	40	40	40	40	40	40
	Between indoor units		m	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)  
6.0°C WB (43.0°F WB)

Piping Length: 7.5 metre  
Piping Lift: 0 metre

2. The sound pressure is based on the following conditions.

1 metre from the unit service cover surface, and 1.36 metre from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.




(\*) Standard: up to 50 metre/Custom Order: up to 110 metre.

Longer piping (up to 110 metre) is available for 8 to 54HP class models only.

Maximum level difference for 56-96HP class is 90 metre.



SPECIFICATIONS

											
HP class			26HP class	28HP class	30HP class	32HP class	34HP class	36HP class	38HP class	40HP class	42HP class
Combination of single module unit			10+16	12+16	14+16	16+16	16+18	16+20	16+22	16+24	18+24
Model		Unit	RAS-26HNBCMQ	RAS-28HNBCMQ	RAS-30HNBCMQ	RAS-32HNBCMQ	RAS-34HNBCMQ	RAS-36HNBCMQ	RAS-38HNBCMQ	RAS-40HNBCMQ	RAS-42HNBCMQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	73.0	78.5	85.0	90.0	95.0	101.0	106.5	113.0	118.0
	Heating	kW	81.5	87.5	95.0	100.0	106.0	113.0	119.0	125.0	131.0
Power Input	Cooling	kW	20.34	21.70	24.86	26.86	28.36	29.43	31.52	35.37	36.87
	Heating	kW	20.01	21.68	24.41	26.31	28.30	29.31	31.81	36.74	38.72
Air Flow Rate	Standard	m³/min	426	446	495	512	512	585	585	604	604
Dimension	H×W×D	mm	1,725×2,196×782	1,725×2,196×782	1,725×2,456×782	1,725×2,456×782	1,725×2,456×782	1,725×2,846×782	1,725×2,846×782	1,725×2,846×782	1,725×2,846×782
Weight	Net	kg	226+310	248+310	308+310	310+310	310+356	310+390	310+415	310+416	356+416
Footprint Area		m²	0.75+0.95	0.75+0.95	0.95+0.95	0.95+0.95	0.95+0.95	0.95+1.26	0.95+1.26	0.95+1.26	0.95+1.26
Packaging Volume		m³	1.62+2.03	1.62+2.03	2.03+2.03	2.03+2.03	2.03+2.03	2.03+2.67	2.03+2.67	2.03+2.67	2.03+2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	14.9	17.1	18.8	19.8	20.6	21.2	21.2	22.5	23.3
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	12.90	12.90	13.80	13.80	14.80	15.30	15.30	15.30	16.30
Number of Fan Motors			3	3	4	4	4	4	4	4	4
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	63	63	64	64	64	65	65	65	65
	Semi-anechoic	dB(A)	66	66	67	67	67	68	68	68	68
Piping	Liquid	mm	φ19.05	φ19.05	φ19.05	φ19.05	φ19.05	φ19.05	φ19.05	φ19.05	φ19.05
	Gas	mm	φ31.75	φ31.75	φ31.75	φ31.75	φ31.75	φ38.10	φ38.10	φ38.10	φ38.10
Current	Max	A	23+35.5	27+35.5	31.5+35.5	35.5+35.5	35.5+43.5	35.5+45	35.5+52	35.5+61.5	43.5+61.5
	Breaker	A	32+50	32+50	40+50	50+50	50+50	50+63	50+63	50+80	50+80
	Cooling	A	11.8+22.1	14+22.1	18.9+22.1	22.1+22.1	22.1+25.2	22.1+26.9	22.1+30.1	22.1+36.5	25.2+36.5
	Heating	A	11.7+21.6	14.5+21.6	18.5+21.6	21.6+21.6	21.6+25.5	21.6+27.4	21.6+31	21.6+39.3	25.5+39.3
Efficiency	EER	W/W	3.59	3.62	3.42	3.35	3.35	3.43	3.38	3.19	3.20
	COP	W/W	4.07	4.04	3.89	3.80	3.75	3.86	3.74	3.40	3.38
The max IDU connect qty.			43	47	50	53	56	59	64	64	64
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length	Actual	m	165	165	165	165	165	165	165	165
		Equivalent	m	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit		m	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit		m	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit		m	40	40	40	40	40	40	40	40
Between outdoor units (combination of base units)		m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Maximum level difference	Between outdoor unit and indoor units	ODU above IDU(*)	m	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)	50 (standard) up to 110 (custom order)
		IDU above ODU	m	40	40	40	40	40	40	40	40
	Between indoor units		m	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)

19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)

7.0°C DB (45.0°F DB)

6.0°C WB (43.0°F WB)

Piping Length: 7.5 metre

Piping Lift: 0 metre

2. The sound pressure is based on the following conditions.

1 metre from the unit service cover surface, and 1.36 metre from floor level.










The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

(\*) Standard: up to 50 metre/Custom Order: up to 110 metre.

Longer piping (up to 110 metre) is available for 8 to 54HP class models only.

Maximum level difference for 56-96HP class is 90 metre.

SPECIFICATIONS

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
HP class				44HP class			46HP class			48HP class			50HP class			52HP class			54HP class			56HP class			58HP class			60HP class																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Combination of single module unit				20+24			22+24			24+24			16+16+18			16+16+20			16+16+22			16+16+24			16+18+24			16+20+24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Model		Unit		RAS-44HNBCMQ	RAS-46HNBCMQ	RAS-48HNBCMQ			RAS-50HNBCMQ	RAS-52HNBCMQ	RAS-54HNBCMQ	RAS-56HNBCMQ	RAS-58HNBCMQ	RAS-60HNBCMQ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

Notes:

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Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)

Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)

6.0°C WB (43.0°F WB)

Piping Length: 7.5 metre

Piping Lift: 0 metre

2. The sound pressure is based on the following conditions.

1 metre from the unit service cover surface, and 1.36 metre from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.





(\*) Standard: up to 50 metre/Custom Order: up to 110 metre.

Longer piping (up to 110 metre) is available for 8 to 54HP class models only.

Maximum level difference for 56-96HP class is 90 metre.



SPECIFICATIONS

																																			
HP class			62HP class			64HP class			66HP class			68HP class			70HP class			72HP class			74HP class			76HP class			78HP class								
Combination of single module unit			16+22+24			16+24+24			18+24+24			20+24+24			22+24+24			24+24+24			16+16+18+24			16+16+20+24			16+16+22+24								
Model			Unit			RAS-62HNBCMQ			RAS-64HNBCMQ			RAS-66HNBCMQ			RAS-68HNBCMQ			RAS-70HNBCMQ			RAS-72HNBCMQ			RAS-74HNBCMQ			RAS-76HNBCMQ			RAS-78HNBCMQ					
Power Supply			V/Ph/Hz			380-415/3/50			380-415/3/50			380-415/3/50			380-415/3/50			380-415/3/50			380-415/3/50			380-415/3/50			380-415/3/50								
Capacity			Cooling			kW			174.5			181.0			186.0			192.0			197.5			204.0			208.0			214.0			219.5		
			Heating			kW			194.0			200.0			206.0			213.0			219.0			225.0			231.0			238.0			244.0		
Power Input			Cooling			kW			53.46			57.31			58.81			59.88			61.97			65.82			63.73			64.80			66.89		
			Heating			kW			55.39			60.32			62.30			63.31			65.81			70.74			65.04			66.05			68.55		
Air Flow Rate			Standard			m³/min			933			952			952			1,025			1,025			1,044			1,116			1,189			1,189		
Dimension			H×W×D			mm			1,725×4,474×782			1,725×4,474×782			1,725×4,474×782			1,725×4,864×782			1,725×4,864×782			1,725×5,322×782			1,725×5,712×782			1,725×5,712×782					
Weight			Net			kg			310+415+416			310+416+416			356+416+416			390+416+416			415+416+416			416+416+416			310+310+356+416			310+310+390+416			310+310+415+416		
Footprint Area						m²			0.95+1.26+1.26			0.95+1.26+1.26			0.95+1.26+1.26			1.26+1.26+1.26			1.26+1.26+1.26			1.26+1.26+1.26			0.95+0.95+0.95+1.26			0.95+0.95+1.26+1.26			0.95+0.95+1.26+1.26		
Packaging Volume						m³			2.03+2.67+2.67			2.03+2.67+2.67			2.03+2.67+2.67			2.67+2.67+2.67			2.67+2.67+2.67			2.67+2.67+2.67			2.03+2.03+2.03+2.67			2.03+2.03+2.67+2.67			2.03+2.03+2.67+2.67		
Compressor type						Scroll			Scroll			Scroll			Scroll			Scroll			Scroll			Scroll			Scroll			Scroll			Scroll		
Refrigerant			Type			R410A			R410A			R410A			R410A			R410A			R410A			R410A			R410A			R410A			R410A		
			Charge Amount			kg			33.8			35.1			35.9			36.5			36.5			37.8			43.1			43.7			43.7		
Refrigerant Oil			Model			FV68H			FV68H			FV68H			FV68H			FV68H			FV68H			FV68H			FV68H			FV68H			FV68H		
			Charge Amount			L			23.70			23.70			24.70			25.20			25.20			25.20			30.10			30.60			30.60		
Number of Fan Motors						6			6			6			6			6			6			6			8			8			8		
Capacity Ratio of IDU/ODU						50-130%			50-130%			50-130%			50-130%			50-130%			50-130%			50-130%			50-130%			50-130%			50-130%		
Noise			Anechoic			dB(A)			67			67			67			67			68			68			68			68			68		
			Semi-anechoic			dB(A)			70			70			70			70			71			71			71			71			71		
Piping			Liquid			mm			φ19.05			φ19.05			φ19.05			φ22.20			φ22.20			φ22.20			φ22.20			φ22.20			φ22.20		
			Gas			mm			φ44.45			φ44.45			φ44.45			φ44.45			φ44.45			φ44.45			φ50.80			φ50.80			φ50.80		
Current			Max			A			35.5+52+61.5			35.5+61.5+61.5			43.5+61.5+61.5			45+61.5+61.5			52+61.5+61.5			61.5×3			35.5+35.5+43.5+61.5			35.5+35.5+45+61.5			35.5+35.5+52+61.5		
			Breaker			A			50+63+80			50+80+80			50+80+80			63+80+80			63+80+80			80×3			50+50+50+80			50+50+63+80			50+50+63+80		
			Cooling			A			22.1+30.1+36.5			22.1+36.5+36.5			25.2+36.5+36.5			26.9+36.5+36.5			30.1+36.5+36.5			36.5×3			22.1+22.1+25.2+36.5			22.1+22.1+26.9+36.5			22.1+22.1+30.1+36.5		
			Heating			A			21.6+31+39.3			21.6+39.3+39.3			25.5+39.3+39.3			27.4+39.3+39.3			31+39.3+39.3			39.3×3			21.6+21.6+25.5+39.3			21.6+21.6+27.4+39.3			21.6+21.6+31+39.3		
			EER			W/W			3.26			3.16			3.16			3.21			3.19			3.10			3.26			3.30			3.28		
Efficiency			COP			W/W			3.50			3.32			3.31			3.36			3.33			3.18			3.55			3.60			3.56		
The max IDU connect qty.						64			64			64			64			64			64			64			64			64			64		
Working temp. range			Cooling			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB					
			Heating			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB					
Refrigerant control mode electronic expansion valve						Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve					
Tubing connection method						Welding connection			Welding connection			Welding connection			Welding connection			Welding connection			Welding connection			Welding connection			Welding connection			Welding connection					
Maximum piping length			Total piping length			m			1,000			1,000			1,000			1,000			1,000			1,000			1,000			1,000			1,000		
			Refrigerant piping length			Actual			m			165			165			165			165			165			165			165			165		
						Equivalent			m			190			190			190			190			190			190			190			190		
			Between "Piping connection kit" and each outdoor unit			m			10			10			10			10			10			10			10			10			10		
			Between "1st branch Multi Kit" and farthest indoor unit			m			90			90			90			90			90			90			90			90			90		
			Between "Multi Kit" and each indoor unit			m			40			40			40			40			40			40			40			40			40		
Between outdoor units (combination of base units)			m			0.1			0.1			0.1			0.1			0.1			0.1			0.1			0.1			0.1					
Maximum level difference			Between outdoor unit and indoor units			ODU above IDU(*)			m			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)			50 (standard) up to 90 (custom order)		
						IDU above ODU			m			40			40			40			40			40			40			40			40		
			Between indoor units			m			30			30			30			30			30			30			30			30			30		

Notes:  
1. The cooling and heating performances are the values when combined with our test indoor units.  
Cooling Operation Conditions  
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)  
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
Heating Operation Conditions  
Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)  
6.0°C WB (43.0°F WB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre

2. The sound pressure is based on the following conditions.  
1 metre from the unit service cover surface, and 1.36 metre from floor level.  
The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

(\*) Standard: up to 50 metre/Custom Order: up to 110 metre.  
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.  
Maximum level difference for 56-96HP class is 90 metre.

SPECIFICATIONS



HP class			80HP class	82HP class	84HP class	86HP class	88HP class	90HP class	92HP class	94HP class	96HP class
Combination of single module unit			20×4	20×3+22	20×3+24	20+20+22+24	20+20+24+24	20+22+24+24	20+24×3	22+24×3	24×4
Model		Unit	RAS-80HNBCMQ	RAS-82HNBCMQ	RAS-84HNBCMQ	RAS-86HNBCMQ	RAS-88HNBCMQ	RAS-90HNBCMQ	RAS-92HNBCMQ	RAS-94HNBCMQ	RAS-96HNBCMQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	224.0	229.5	236.0	241.5	248.0	253.5	260.0	265.5	272.0
	Heating	kW	252.0	258.0	264.0	270.0	276.0	282.0	288.0	294.0	300.0
Power Input	Cooling	kW	64.00	66.09	69.94	72.03	75.88	77.97	81.82	83.91	87.76
	Heating	kW	64.60	67.10	72.03	74.53	79.46	81.96	86.89	89.39	94.32
Air Flow Rate	Standard	m³/min	1,316	1,316	1,335	1,335	1,354	1,354	1,373	1,373	1,392
Dimension	H×W×D	mm	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782
Weight	Net	kg	390+390+390+390	390+390+390+415	390+390+390+416	390+390+415+416	390+390+416+416	390+415+416+416	390+416+416+416	415+416+416+416	416+416+416+416
Footprint Area		m²	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26
Packaging Volume		m³	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	45.2	45.2	46.5	46.5	47.8	47.8	49.1	49.1	50.4
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	33.60	33.60	33.60	33.60	33.60	33.60	33.60	33.60	33.60
Number of Fan Motors			8	8	8	8	8	8	8	8	8
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	68	68	68	69	69	69	69	69	69
	Semi-anechoic	dB(A)	71	71	71	72	72	72	72	72	72
Piping	Liquid	mm	φ22.20	φ22.20	φ22.20	φ22.20	φ22.20	φ25.40	φ25.40	φ25.40	φ25.40
	Gas	mm	φ50.80	φ50.80	φ50.80	φ50.80	φ50.80	φ50.80	φ50.80	φ50.80	φ50.80
Current	Max	A	45×4	45×3+52	45×3+61.5	45×2+52+61.5	45+45+61.5+61.5	45+52+61.5+61.5	45+61.5×3	52+61.5×3	61.5×4
	Breaker	A	63×4	63×3+63	63×3+80	63×2+63+80	63+63+80+80	63+63+80+80	63+80×3	63+80×3	80×4
	Cooling	A	26.9×4	26.9×3+30.1	26.9×3+36.5	26.9×2+30.1+36.5	26.9+26.9+36.5+36.5	26.9+30.1+36.5+36.5	26.9+36.5×3	30.1+36.5×3	36.5×4
	Heating	A	27.4×4	27.4×3+31	27.4×3+39.3	27.4×2+31+39.3	27.4+27.4+39.3+39.3	27.4+31+39.3+39.3	27.4+39.3×3	31+39.3×3	39.3×4
	EER	W/W	3.50	3.47	3.37	3.35	3.27	3.25	3.18	3.16	3.10
Efficiency	COP	W/W	3.90	3.85	3.67	3.62	3.47	3.44	3.31	3.29	3.18
The max IDU connect qty.			64	64	64	64	64	64	64	64	64
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length	Actual	m	165	165	165	165	165	165	165	165
		Equivalent	m	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit		m	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit		m	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit		m	40	40	40	40	40	40	40	40
Between outdoor units (combination of base units)		m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Maximum level difference	Between outdoor unit and indoor units	ODU above IDU(*)	m	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)	50 (standard) up to 90 (custom order)
		IDU above ODU	m	40	40	40	40	40	40	40	40
	Between indoor units		m	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)  
6.0°C WB (43.0°F WB)

Piping Length: 7.5 metre  
Piping Lift: 0 metre

2. The sound pressure is based on the following conditions.

1 metre from the unit service cover surface, and 1.36 metre from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

(\*) Standard: up to 50 metre/Custom Order: up to 110 metre.

Longer piping (up to 110 metre) is available for 8 to 54HP class models only.

Maximum level difference for 56~96HP class is 90 metre.



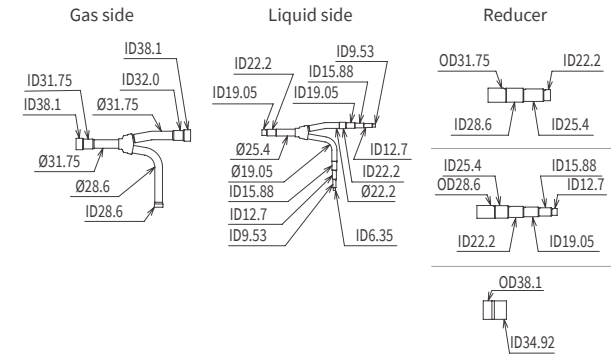


OPTIONAL PARTS

PIPING CONNECTION KIT

Model	Outdoor unit capacity	Number of modules of 1 outdoor unit
M-30SNQ	26-34HP class	2
M-46SNQ	36-48HP class	2
M-30SNQ+M-46SNQ	50-54HP class	3
M-30SNQ+M-68SNQ	56-72HP class	3
M-30SNQ+M-30SNQ+M-68SNQ	74-96HP class	4

Example: M-30SNQ

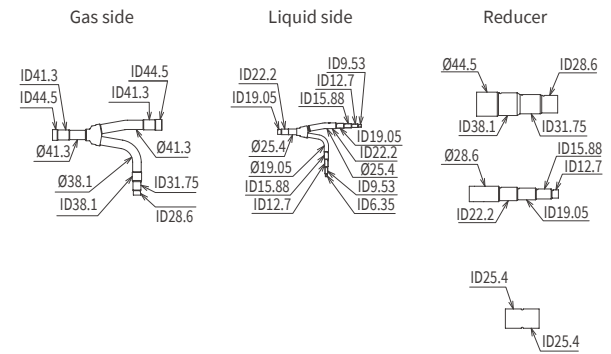


MULTI-KIT

1) 1st branch Multi-kit

Main Piping ≥ 100m		Main Piping < 100m	
Model	Outdoor unit capacity	Model	Outdoor unit capacity
E-162SN	8-10HP class	E-102SN	8-10HP class
E-242SN	12-14HP class	E-162SN	12-16HP class
E-302SN	16-24HP class	E-242SN	18-24HP class
E-462SN	26-54HP class	E-302SN	26-54HP class
E-682SN	56-96HP class	E-462SN	56-72HP class
		E-682SN	74-96HP class

Example: E-462SN



2) Multi-kit after 1st branch and pipe diameter

Model	Q= Total indoor unit capacity (kW)	Diameter (mm)	
		Gas Pipe	Liquid Pipe
E-102SN	Q ≤ 15.9	15.88	9.52
	16 ≤ Q < 25	19.05	9.52
	25 ≤ Q < 33.5	22.2	9.52
E-162SN	33.5 ≤ Q < 45	25.4	12.7
	45 ≤ Q < 50	28.58	12.7
E-242SN	50 ≤ Q < 72.9	28.58	15.88
E-302SN	72.9 ≤ Q < 100.8	31.75	19.05
	100.8 ≤ Q < 156.8	38.1	19.05
E-462SN	156.8 ≤ Q < 190.4	44.45	19.05
	190.4 ≤ Q < 207.2	44.45	22.2
E-682SN	207.2 ≤ Q < 252	50.8	22.2
	252 ≤ Q < 274.4	50.8	25.4
	274.4 ≤ Q < 349.5	50.8	28.58



# Indoor life

At work or at home, you want to be in control of your indoor environment. Of course that environment can take many forms, so the new SET FREE  $\Sigma$  range offers you the widest choice of indoor units, with the versatility to complement any interior.

Named after the distinctive shape of its patented heat exchanger, SET FREE  $\Sigma$  is a next generation VRF system, setting new standards in power, reliability and efficiency.

From small spaces to the largest buildings, you can create your own living harmony.



LINE UP OVERVIEW

COMPARING INDOOR UNITS CAPACITY


IDU Category		kW (Cooling)																			
		1.6	2.2	2.8	3.6	4.0	4.3	5.0	5.6	6.3	7.1	7.4	8.0	8.4	9.0	11.0	14.0	14.2	16.0	22.4	28.0
CEILING CASSETTE	4-WAY CASSETTE TYPE			●		●			●		●		●			●	●		●		
	4-WAY CASSETTE COMPACT TYPE	●	●	●		●			●		●										
	2-WAY CASSETTE TYPE		●	●		●			●		●		●			●	●		●		
	1-WAY CASSETTE TYPE		●	●		●			●		●		●								
DUCTED	HIGH ESP TYPE													●	●	●		●	●	●	●
	MEDIUM ESP TYPE		●	●	●		●	●	●	●	●									●	●
	LOW ESP TYPE		●	●	●		●	●	●	●	●			●	●	●		●	●		
	SLIM TYPE		●	●	●		●														
	COMPACT TYPE (BOTH AC MOTOR TYPE AND DC MOTOR TYPE AVAILABLE)		●	●	●		●	●	●	●	●										
OTHERS	FLOOR CONCEALED TYPE			●		●			●		●										
	FLOOR / CEILING CONVERTIBLE TYPE							●	●	●		●		●	●	●		●			
	CEILING SUSPENDED TYPE					●			●		●		●			●		●	●		
	WALL MOUNTED TYPE		●	●	●	●		●	●	●	●		●			●					

COMPARING VENTILATIONS CAPACITY


Fan Air Flow Rate (m³/h)	200	300	400	500	650	800	1,000	1,080	1,250	1,500	1,680	2,000	2,100	2,500	3,000	4,000	5,000	6,000
ALL FRESH AIR UNIT								●			●		●		●	●	●	●
TOTAL HEAT EXCHANGER	●	●	●	●	●	●	●		●	●		●		●	●	●	●	

KEY INFORMATION


CEILING CASSETTE




**4-WAY CASSETTE TYPE**  
• With area of air distribution with 4 direction of louvers (distribution with distance available with optional parts (duct flange))  
• Motion sensor available for better energy saving operation  
• Individual four-way louvers for greater comfort for individual users  
• Ideal for a higher ceiling location for installation (up to 5.5m in cooling mode)



**4-WAY CASSETTE COMPACT TYPE**  
• Dimensions correspond with 600mm x 600mm architectural module ceiling design specifications  
• Quiet operation level (as low as 24.5 dB(A))  
• Wide range of air flow rate ideal for high ceiling installation with 4.6m air blow down in cooling mode




**2-WAY CASSETTE TYPE**  
• Motion sensor available for better energy saving operation  
• Ideal for a higher ceiling location for installation (up to 4.6m in cooling mode)  
• Individual louvers operation for greater comfort for individual users  
• Quiet operation level (as low as 27dB(A))




**1-WAY CASSETTE TYPE**  
• Motion sensor available for better energy saving operation  
• Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both  
• Quiet operation level (as low as 27dB(A))


DUCTED




**HIGH ESP TYPE**  
• High ESP (90/120Pa for 3.0-6.0HP class, 180Pa for 8.0-10.0HP class)  
• Space saving design thanks to a height of only 300mm (3.0-6.0 HP class) or 470mm (8.0-10.0HP class)




**MEDIUM ESP TYPE**  
• 2 steps of medium ESP (50/80Pa for 0.8-2.5HP class, 100Pa for 8.0-10.0HP class)  
• Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 470mm (8.0-10.0HP class)



**LOW ESP TYPE**  
• Low ESP (30Pa for 0.8-2.5HP class, 60Pa for 3.0-6.0HP class)  
• Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 350mm (3.0-6.0HP class)




**SLIM TYPE**  
• Ideal for narrow ceiling voids installation thanks to low height up to 192mm & width just 700mm  
• Drain-pump with 900mm lift as standard optional part  
• Quiet operation level (as low as 22 dB(A))




**COMPACT TYPE (BOTH AC MOTOR TYPE AND DC MOTOR TYPE AVAILABLE)**  
• Ideal for installation over the closet or windows thanks to the up to the compactness with 192mm height  
• Drain-pump with 900mm lift as standard optional part  
• Quiet operation level (as low as 20dB(A))  
• Fan air flow rate up to 6 taps (DC motor model only)


CONCEALED & EXPOSED




**FLOOR CONCEALED TYPE**  
• Visual aesthetics: it can be hidden away even when there is no ceiling void. Little installation space required thanks to only 220mm depth  
• Height just up to 620mm, suitable for installation beneath the window



**FLOOR/CEILING CONVERTIBLE TYPE**  
• Fully [Floor mounted] or [Ceiling suspended] installation convertible  
• Easy installation  
• Fresh air-intake design  
• Optional drain pump available




**CEILING SUSPENDED TYPE**  
• Ideal for a higher ceiling location for installation (up to 5.6m in cooling)  
• Better power-saving with optional Motion Sensor  
• Quiet operation level (as low as 28dB(A))




**WALL MOUNTED TYPE**  
• Simple installation procedure  
• Flexible discreet design suitable to any interior

COMPARING VENTILATIONS



**ALL FRESH AIR UNIT**  
• Creates a comfortable and healthy indoor environment thanks to introducing fresh air function and heat/cool function  
• Various controllers can be selected and interfaced with the H-LINK system  
• Longer ducts can be connected on-site, thanks to the higher ESP



**TOTAL HEAT EXCHANGER**  
• Creates a healthy indoor environment thanks to introducing fresh air function and ventilation function  
• Remote controller for Total Heat Exchanger is equipped in unit as standard part

LINE UP OVERVIEW

FEATURES COMPARISON

Model		4-WAY CASSETTE TYPE	4-WAY CASSETTE COMPACT TYPE	2-WAY CASSETTE TYPE	1-WAY CASSETTE TYPE	HIGH/MEDIUM/ LOW ESP TYPE	(8/10HP class) HIGH/MEDIUM ESP TYPE	SLIM TYPE	COMPACT TYPE (AC)	COMPACT TYPE (DC)	FLOOR CONCEALED TYPE	FLOOR/CEILING CONVERTIBLE TYPE	CEILING SUSPENDED TYPE	WALL MOUNTED TYPE	
															
		RCI-FSKDNQ	RCIM-FSN4	RCD-FSN3	RCS-FSN	RPIH-HNAUNQ RPIM-HNAUNQ RPIL-HNAUNQ	RPI-FSNQ RPI-FSN3Q	RPIZ-FSNQS/P	RPIZ-HNATNQ	RPIZ-HNDTSQ	RPFI-FSNQ	RPFQ-FSNQ	RPC-FSN3	RPK-FSNQS	RPK-FSN4M
 COMFORT	Temperature Setting Rate	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	1.0°C/1.0°F	1.0°C/1.0°F	1.0°C/1.0°F	1.0°C/1.0°F	1.0°C/1.0°F	1.0°C/1.0°F	1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	1.0°C/1.0°F	0.5°C/1.0°C/1.0°F
	Indoor Fan Speed	4 taps	4 taps	4 taps	4 taps	3 taps	1 tap	3 taps	3 taps	6 taps	3 taps	3 taps	4 taps	3 taps	4 taps
	Louver Direction	7 (*4)	7 (*4)	7 (*4)	7 (*5)	-	-	-	-	-	-	7 (*5)	7 (*5)	7 (*5)	7 (*5)
	Individual Louver Setting	●	●	●	-	-	-	-	-	-	-	-	-	-	-
	Auto Louver Setting	●	●	●	●	-	-	-	-	-	-	●	●	●	●
	Cold Draft Prevention Availability (*1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Dry mode Availability	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 POWER-SAVING (*2)	Power Saving with Motion Sensor	●	●	●	●	-	-	-	-	-	-	-	●	-	-
	Outdoor Unit capacity control	Peak cut control	●	●	●	-	-	-	-	-	-	-	●	-	●
		moderate control	●	●	●	-	-	-	-	-	-	-	●	-	●
	Indoor Unit Rotation Control	Indoor Unit Address	●	●	●	-	-	-	-	-	-	-	●	-	●
		Indoor Air Temperature difference	●	●	●	-	-	-	-	-	-	-	●	-	●
	Automatic Fan Operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 MENU (*2)	Quick Function	●	●	●	●	-	-	-	-	-	-	-	●	-	●
	Comfort setting	Control Cool Air	●	●	●	●	-	-	-	-	-	-	●	-	●
	Daylight Saving Time	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Power Consumption visualization	●	●	●	●	-	-	-	-	-	-	-	●	-	●
	Weekly Schedule Setting	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Power-Saving Setting	●	●	●	●	-	-	-	-	-	-	-	●	-	●
 MAINTENANCE	Dirty Filter Notice Availability	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Check Menu	Sensor Condition Check (*9)	●	●	●	●	●	●	●	●	●	●	●	●	●
		Model Display (*2)	-	-	●	●	-	-	-	-	-	-	●	-	●
		Indoor / Outdoor PCB Check (*2)	●	●	●	●	●	●	●	●	●	●	●	●	●
		Alarm History Display (*9)	●	●	●	●	●	●	●	●	●	●	●	●	●
 OPTIONAL ACCESSORY	Colored Decoration Panel availability	-	-	● (*6)	● (*6)	-	-	-	-	-	-	-	-	-	-
	Motion Sensor	PS-MSK2	SOR-NEC	SOR-NED	SOR-NES	-	-	-	-	-	-	-	SOR-NEP	-	-
	Receiver Kit for wireless remote controller	HR4A10NEWQ PC-ALH3	PC-ALHC1	PC-ALHD1	PC-ALHS1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 (*10) PC-ALHZ1	PC-ALHP1	PC-RLH11 (*10) PC-ALHZ1	PC-ALHZ1 (*11)
	Drain-up mechanism availability	● (*3)	● (*3)	● (*3)	● (*3)	DUPI-131Q DUPI-361Q	DUPI-15H2Q	● (*3)	● (*3)	● (*3)	-	-	DUPC-63K1 DUPC-71K1 DUPC-160K1	-	● (*8)
	Fresh air intake design	● (*7)	● (*7)	● (*7)	● (*7)	-	-	-	-	-	-	-	● (*7)	-	-
	Air filter	● (*8)	● (*8)	● (*8)	● (*8)	KW-PP7/8/9/10Q	-	-	KW-PP5Q KW-PP6Q	KW-PP5Q KW-PP6Q	● (*8)	● (*8)	● (*8)	● (*8)	● (*8)
	Strainer kit	-	-	-	-	-	-	-	-	-	-	-	-	MSF-NP63A1	MSF-NP63A1 MSF-NP112A1

(\*1) This function is utilized to prevent cold discharged air at start-up of heating operation, after defrosting operation, etc. The fan speed automatically switches from Slow to Low and then to the set fan speed. The fan operation might be stopped for up to 2 minutes. At this time the louver is fixed horizontally.

(\*2) Advanced wired remote controller PC-ARF1 needs to be connected.

(\*3) Included as standard equipment.

(\*4) 7 steps are available by individual louver setting. 5 steps only in the operation of Cooling or Dry.

(\*5) 5 steps only in the operation of Cooling or Dry.

(\*6) 3 colors available except white (Beige, Grey and Black).

(\*7) Optional parts: Duct Adapter is availbale. please consult your distributor.

(\*8) Please consult your distributor for the availability.

(\*9) PC-ARF1 or HCWA10NEGQ needs to be connected.

(\*10) Standard Receiver kit (PC-RLH11) is equipped with the unit in package as standard optional part with Wireless Remote Controller (PC-LH3A).

(\*11) Receiver Kit is installed in the unit as standard part. Please use Receiver Kit (PC-ALHZ1) when receiver kit needs to be installed separately from unit.



4-WAY CASSETTE TYPE



DIMENSIONS

RCI-1.0 FSKDNQ	20kg	
RCI-1.5~2.0 FSKDNQ	21kg	
RCI-2.5 FSKDNQ	22kg	
Decoration panel	6.5kg	
RCI-3.0~6.0 FSKDNQ	26kg	
Decoration panel	6.5kg	


FEATURES AND BENEFITS

Adaptability

- 

1) Wide Detection area of motion sensor (PS-MSK2)

(Optional part) to achieve better energy-saving

- 

2) Control air flow with individual four-way louvers

More comfortable air conditioning can be achieved along each zone requirement

Design Flexibility

- 

Suitable for high ceiling space

Thanks to cooling air blow up to 5.5m down

Model			RCI-1.0FSKDNQ	RCI-1.5FSKDNQ	RCI-2.0FSKDNQ	RCI-2.5FSKDNQ	RCI-3.0FSKDNQ	RCI-4.0FSKDNQ	RCI-5.0FSKDNQ	RCI-6.0FSKDNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28	42/36/32/28	48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension (H×W×D)	mm		238×840×840	238×840×840	238×840×840	238×840×840	288×840×840	288×840×840	288×840×840	288×840×840
Net Weight	kg		20	21	21	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)							
Refrigerant	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Piping Diameter	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume	m³		0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Adaptable Panel Model	Included (without Motion Sensor)
Color	Neutral White
Outer Dimension (H×W×D)	mm 40×950×950
Net Weight	kg 6.5
Approximate Packing Volume	m³ 0.10

- NOTE:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)  
  
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
7.0°C DB (45.0°F DB)  
Outdoor Air Inlet Temperature: 6.0°C WB (43.0°F WB)  
  
Piping Length: 7.5 metre  
Piping Lift: 0 metre
2. The sound pressure level is based on following conditions.

1.5 metre Beneath the unit.  
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Decoration panel is included.

4-WAY CASSETTE COMPACT TYPE



DIMENSIONS

RCIM-0.6~1.5 FSN4	16kg	
RCIM-2.0~2.5 FSN4	17kg	
P-AP56NAM	3kg	

FEATURES AND BENEFITS

Adaptability

- 

1) Wide Detection area of motion sensor (SOR-NEC)

(Optional part) to achieve better energy-saving

- 

2) Top-class silent operation

As quiet as gentle breeze

Design Flexibility

- 

Compact

Adaptation to 600×600mm ceilings

Model			RCIM-0.6FSN4	RCIM-0.8FSN4	RCIM-1.0FSN4	RCIM-1.5FSN4	RCIM-2.0FSN4	RCIM-2.5FSN4
Indoor Unit Power Supply			AC 1Φ, [230V/50Hz] [220-240V/50Hz] [220V/60Hz]					
Nominal Capacity	Cooling	kW	1.6	2.2	2.8	4.0	5.6	7.1
	Heating	kW	1.9	2.5	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/30/28/24.5	36/33/29/24.5	38/34/30/24.5	41/37/33/27.5	45/39/35/31	47/43/39/35
Outer Dimension (H×W×D)		mm	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570
Net Weight		kg	16	16	16	16	17	17
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	10/8.5/7.5/6	11/9.5/8/6	12/10/8.5/6	13/11/9.5/7	15/12/10/8	16/14/12/10
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
Piping Diameter	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.13	0.13	0.13	0.13	0.13	0.13

Adaptable Panel Model	P-AP56NAM (without Motion Sensor)
Color	Neutral White
Outer Dimension (H×W×D)	mm 30×620×620
Net Weight	kg 3.0
Approximate Packing Volume	m³ 0.04

- NOTE:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)  
  
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre

Heating Operation Conditions

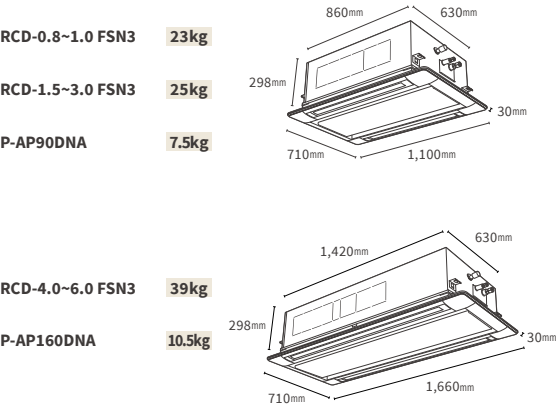
Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
7.0°C DB (45.0°F DB)  
Outdoor Air Inlet Temperature: 6.0°C WB (43.0°F WB)  
  
Piping Length: 7.5 metre  
Piping Lift: 0 metre
2. The sound pressure level is based on following conditions.

1.5 metre Beneath the unit.  
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

2-WAY CASSETTE TYPE



DIMENSIONS



FEATURES AND BENEFITS

Adaptability

- 1) Wide Detection area of motion sensor (SOR-NED)

(Optional part) to achieve better energy-saving

- 2) Control air flow with individual louvers

Suitable environment can be achieved for each person

Design Flexibility

- Suitable for high ceiling space

Thanks to 4.6m cooling air blow down

Model		RCD-0.8FSN3	RCD-1.0FSN3	RCD-1.5FSN3	RCD-2.0FSN3	RCD-2.5FSN3	RCD-3.0FSN3	RCD-4.0FSN3	RCD-5.0FSN3	RCD-6.0FSN3
Indoor Unit Power Supply		AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0
	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	30/29/28/27	31/29/28/27	37/34/31/30	39/36/33/30	42/39/36/33	45/42/38/33	43/40/37/34	47/44/41/35
Outer Dimension	(H×W×D)	mm	298×860×630	298×860×630	298×860×630	298×860×630	298×860×630	298×860×630	298×1,420×630	298×1,420×630
Net Weight		kg	23	23	25	25	25	39	39	39
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	10/9/7.5/6.5	11/9.5/8.5/7	15/13/11.5/10	16.5/14.5/12.5/10.5	18.5/16.5/14.5/12.5	21/18.5/16/12.5	30/26.5/23/20	35/31/27/21
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Piping Diameter	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.24	0.24	0.24	0.24	0.24	0.24	0.36	0.36

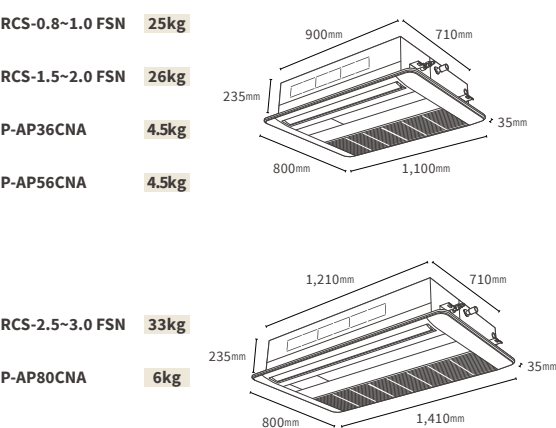
Adaptable Panel Model		P-AP90DNA (for RCD-[0.8-3.0]FSN3)	P-AP160DNA (for RCD-[4.0-6.0]FSN3)
Color		Neutral White	Neutral White
Outer Dimension (H×W×D)	mm	30×1,100×710	30×1,660×710
Net Weight	kg	7.5	10.5
Approximate Packing Volume	m³	0.13	0.20

NOTE:  
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.  
Cooling Operation Conditions  
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)  
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
Heating Operation Conditions  
Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)  
6.0°C WB (43.0°F WB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
2. The sound pressure level is based on following conditions.  
1.5 metre Beneath the unit.  
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

1-WAY CASSETTE TYPE



DIMENSIONS



FEATURES AND BENEFITS

Adaptability

- 1) Wide Detection area of motion sensor (SOR-NES)

(Optional part) to achieve better energy-saving

Adaptability

- 2) Quiet operation

New design in fan inlet and fan resulted in the low sound pressure

Design Flexibility

- 3 installation types selectable

Corner type (standard)  
Clipped ceiling (one-way) type  
Clipped ceiling (two-way) type

Model		RCS-0.8FSN	RCS-1.0FSN	RCS-1.5FSN	RCS-2.0FSN	RCS-2.5FSN	RCS-3.0FSN
Indoor Unit Power Supply		AC 1Φ, [220-240V/50Hz] [230V/50Hz] [220V/60Hz]					
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1
	Heating	kW	2.5	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/32/29/27	36/34/31/28	40/37/33/31	42/38/35/31	43/39/36/32
Outer Dimension	(H×W×D)	mm	235×900×710	235×900×710	235×900×710	235×900×710	235×1,210×710
Net Weight		kg	25	25	26	26	33
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8.5/7.5/6.5/6	9.5/8.5/7.5/6.5	13/11.5/10/8.5	14.5/13/11/9.5	18.5/16.5/14.5/12.5
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
Piping Diameter	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.25	0.25	0.25	0.25	0.32

Adaptable Panel Model		P-AP36CNA (for RCS-[0.8-1.0]FSN)	P-AP56CNA (for RCS-[1.5-2.0]FSN)	P-AP80CNA (for RCS-[2.5-3.0]FSN)
Color		Neutral White	Neutral White	Neutral White
Outer Dimension (H×W×D)	mm	35×1,100×800	35×1,100×800	35×1,410×800
Net Weight	kg	4.5	4.5	6.0
Approximate Packing Volume	m³	0.098	0.098	0.125

NOTE:  
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.  
Cooling Operation Conditions  
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)  
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
Heating Operation Conditions  
Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)  
6.0°C WB (43.0°F WB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre  
2. The sound pressure level is based on following conditions.  
1.5 metre Beneath the unit.  
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



DUCTED



Type	HIGH ESP TYPE		MEDIUM ESP TYPE		LOW ESP TYPE		SLIM TYPE	COMPACT TYPE (AC MOTOR/DC MOTOR)
Model	RPIH-(3.0~6.0)HNAUNQ RPI-(8.0~10.0)FSNQ		RPIM-(0.8~2.5)HNAUNQ RPI-(8.0~10.0)FSN3Q		RPIL-(0.8~6.0)HNAUNQ		RPIZ-(0.8~1.5)FSNQS/P	RPIZ-(0.8~2.5)HNATNQ RPIZ-(0.8~2.5)HNDTSQ
Capacity	Cooling	kW	8.4-28.0		2.2-16.0		2.2-4.3	2.2-7.1
	Heating	kW	9.6-31.5		2.8-18.0		2.8-4.9	2.5-8.0
Dimensions	Height	mm	300-470		270-300		192	192
	Width	mm	1,060-1,475		725-1,475		700	700-1,180
	Depth	mm	800-1,120		720-800		602	447
Net Weight	kg		45-104		24-54		21	17-28

FEATURES AND BENEFITS

High ESP type

- High ESP (90/120Pa for 3.0-6.0HP class, 180Pa for 8.0-10.0HP class)
- Space saving design thanks to a height of only 300mm (3.0-6.0HP class) or 470mm (8.0-10.0HP class)

Medium ESP type

- 2 steps of medium ESP (50/80Pa for 0.8-2.5HP class, 100Pa for 8.0-10.0HP class)
- Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 470mm (8.0-10.0HP class)

Low ESP type

- Low ESP (30Pa for 0.8-2.5HP class, 60Pa for 3.0-6.0HP class)
- Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 350mm (3.0-6.0HP class)

Slim type

- Ideal for narrow ceiling voids installation thanks to low height up to 192mm & width just 700mm
- Drain-pump with 900mm lift as standard optional part
- Quiet operation level (as low as 22dB(A))

Compact type

- Ideal for installation over the closet or windows thanks to the up to the compactness with 192mm height
- Drain-pump with 900mm lift as standard optional part
- Quiet operation level (as low as 20dB(A))
- Fan air flow rate up to 6 taps (DC motor model only)



HIGH ESP (EXTERNAL STATIC PRESSURE) TYPE

Model			RPIH-3.0HNAUNQ	RPIH-3.3HNAUNQ	RPIH-4.0HNAUNQ	RPIH-5.0HNAUNQ	RPIH-6.0HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]				
Nominal Capacity	Cooling	kW	8.4	9.0	11.2	14.2	16.0
	Heating	kW	9.6	10.0	13.0	16.3	18.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	42/39/34	42/39/34	43/39/34	44/41/37	48/42/37
Outer Dimension	(H×W×D)	mm	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800
Net Weight		kg	45	45	45	53	54
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	30/28/23	30/28/23	30/28/23	35.5/32/27	41/33/26
External Static Pressure (*3)		Pa	120(90)	120(90)	120(90)	120(90)	120(90)
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume	m³		0.40	0.40	0.40	0.49	0.49

Model			RPI-8.0FSNQ	RPI-10.0FSNQ
Indoor Unit Power Supply			AC 3Φ, [380-415V/50Hz]	
Nominal Capacity	Cooling	kW	22.4	28.0
	Heating	kW	25.0	31.5
Sound Pressure Level		dB(A)	50	52
Outer Dimension	(H×W×D)	mm	470×1,060×1,120	470×1,250×1,120
Net Weight		kg	96	104
Refrigerant			R410A	R410A
Indoor Fan Air Flow Rate		m³/min	58	72
External Static Pressure (*3)		Pa	180	180
Connections			Brazing	
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52
	Gas Line	mm	Φ19.05	Φ22.23
Condensate Drain			VP25	VP25
Approximate Packing Volume	m³		0.90	1.06

NOTE:

1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions		Heating Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C DB (80.0°F DB) 19.0°C WB (66.2°F WB)	Indoor Air Inlet Temperature:	20.0°C DB (68.0°F DB) 7.0°C DB (45.0°F DB)
Outdoor Air Inlet Temperature:	35.0°C DB (95.0°F DB)	Outdoor Air Inlet Temperature:	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre		Piping Length: 7.5 metre	
Piping Lift: 0 metre		Piping Lift: 0 metre	

2. The sound pressure level is based on following conditions.  
1.4 metre Beneath the unit.  
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).  
Voltage of the power source for the indoor fan motor is 220V.  
(In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.

MEDIUM ESP (EXTERNAL STATIC PRESSURE) TYPE

Model			RPIM-0.8HNAUNQ	RPIM-1.0HNAUNQ	RPIM-1.3HNAUNQ	RPIM-1.5HNAUNQ	RPIM-1.8HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]				
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0
	Heating	kW	2.8	3.3	4.2	4.9	5.6
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/27/24	32/27/24	35/33/28	35/33/28	35.5/33/28
Outer Dimension	(H×W×D)	mm	270×725×720	270×725×720	270×725×720	270×725×720	270×975×720
Net Weight		kg	24	24	25	25	31
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	10/8/7	10/8/7	12/11/9	12/11/9	16/14/11.5
External Static Pressure (*3)		Pa	50(80)	50(80)	50(80)	50(80)	50(80)
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.22	0.22	0.22	0.22	0.28

Model			RPIM-2.0HNAUNQ	RPIM-2.3HNAUNQ	RPIM-2.5HNAUNQ	RPI-8.0FSN3Q	RPI-10.0FSN3Q
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]			AC 3Φ, [380-415V/50Hz]	
Nominal Capacity	Cooling	kW	5.6	6.3	7.1	22.4	28.0
	Heating	kW	6.5	7.5	8.5	25.0	31.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	35.5/33/28	39/34/26	39/34/26	50	52
Outer Dimension	(H×W×D)	mm	270×975×720	270×975×720	270×975×720	470×1,060×1,120	470×1,250×1,120
Net Weight		kg	31	32	32	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	16/14/11.5	20/16/11.5	20/16/11.5	58(56*)	72(70*)
External Static Pressure (*3)		Pa	50(80)	50(80)	50(80)	100	100
Connections			Flare-Nut Connection (with Flare Nuts)			Brazing	
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.28	0.28	0.28	0.90	1.06

NOTE:  
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions		Heating Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C DB (80.0°F DB) 19.0°C WB (66.2°F WB)	Indoor Air Inlet Temperature:	20.0°C DB (68.0°F DB) 7.0°C DB (45.0°F DB)
Outdoor Air Inlet Temperature:	35.0°C DB (95.0°F DB)	Outdoor Air Inlet Temperature:	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre		Piping Length: 7.5 metre	
Piping Lift: 0 metre		Piping Lift: 0 metre	

2. The sound pressure level is based on following conditions.  
1.4 metre Beneath the unit.  
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).  
Voltage of the power source for the indoor fan motor is 220V.  
(In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.

LOW ESP (EXTERNAL STATIC PRESSURE) TYPE

Model			RPIL-0.8HNAUNQ	RPIL-1.0HNAUNQ	RPIL-1.3HNAUNQ	RPIL-1.5HNAUNQ	RPIL-1.8HNAUNQ	RPIL-2.0HNAUNQ	RPIL-2.3HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]						
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	28/25/22	28/25/22	34/32/30	34/32/30	34/32/29	34/32/29	36.5/30.5/25
Outer Dimension	(H×W×D)	mm	270×725×720	270×725×720	270×725×720	270×725×720	270×975×720	270×975×720	270×975×720
Net Weight		kg	24	24	25	25	31	31	32
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	9/8/7	9/8/7	13/11/9	13/11/9	15/14/12	15/14/12	21/17/11
External Static Pressure (*3)		Pa	30	30	30	30	30	30	30
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.22	0.22	0.22	0.22	0.28	0.28	0.28

Model			RPIL-2.5HNAUNQ	RPIL-3.0HNAUNQ	RPIL-3.3HNAUNQ	RPIL-4.0HNAUNQ	RPIL-5.0HNAUNQ	RPIL-6.0HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]					
Nominal Capacity	Cooling	kW	7.1	8.4	9.0	11.2	14.2	16.0
	Heating	kW	8.5	9.6	10.0	13.0	16.3	18.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36.5/30.5/25	38/30/24	38/30/24	38/35/31	44/39/35	46/41/35
Outer Dimension	(H×W×D)	mm	270×975×720	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800
Net Weight		kg	32	45	45	45	53	54
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	21/17/11	29/25/21	29/25/21	29/25/21	36/31/26	42/34/26
External Static Pressure (*3)		Pa	30	60	60	60	60	60
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.28	0.40	0.40	0.40	0.49	0.49

NOTE:  
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions		Heating Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C DB (80.0°F DB) 19.0°C WB (66.2°F WB)	Indoor Air Inlet Temperature:	20.0°C DB (68.0°F DB) 7.0°C DB (45.0°F DB)
Outdoor Air Inlet Temperature:	35.0°C DB (95.0°F DB)	Outdoor Air Inlet Temperature:	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre		Piping Length: 7.5 metre	
Piping Lift: 0 metre		Piping Lift: 0 metre	

2. The sound pressure level is based on following conditions.  
1.4 metre Beneath the unit.  
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).  
Voltage of the power source for the indoor fan motor is 220V.  
(In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.

SET FREE Σ HNCQ series

DUCTED



SLIM TYPE

Model			RPIZ-0.8FSNQS/P	RPIZ-1.0FSNQS/P	RPIZ-1.3FSNQS/P	RPIZ-1.5FSNQS/P
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]			
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3
	Heating	kW	2.8	3.3	4.2	4.9
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	28/25/22	28/25/22	32/30/28	32/30/28
Outer Dimension	(H×W×D)	mm	192×700×602	192×700×602	192×700×602	192×700×602
Net Weight		kg	21	21	21	21
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8/7/6	8/7/6	10/8/7	10/8/7
External Static Pressure (*3)	Standard (min/max)	Pa	10(10/30)	10(10/30)	10(10/30)	10(10/30)
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70
Condensate Drain			VP25	VP25	VP25	VP25
Approximate Packing Volume			0.15	0.15	0.15	0.15
NOTE: 1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions. <div>Cooling Operation Conditions Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB) 19.0°C WB (66.2°F WB)</div> <div>Heating Operation Conditions Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB) 7.0°C DB (45.0°F DB)</div> <div>Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB) Piping Length: 7.5 metre Piping Lift: 0 metre</div> 2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V. (In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).) The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field. 3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.						

COMPACT TYPE  
(BOTH AC MOTOR TYPE AND DC MOTOR TYPE AVAILABLE)

Model (AC MOTOR)			RPIZ-0.8HNATNQ	RPIZ-1.0HNATNQ	RPIZ-1.3HNATNQ	RPIZ-1.5HNATNQ	RPIZ-1.8HNATNQ	RPIZ-2.0HNATNQ	RPIZ-2.3HNATNQ	RPIZ-2.5HNATNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	30/23/20	30/23/20	34/25/22	32.5/26/23	34/26/25	34/26/25	37/29/27	37/29/27
Outer Dimension	(H×W×D)	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	21	27	27	28	28
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	9.5/6.5/5.5	9.5/6.5/5.5	9.5/6.5/5.5	10/7/6	15/10/9	15/10/9	17/10/9	17/10/9
External Static Pressure (*3)		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume			0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18
Model (DC MOTOR)			RPIZ-0.8HNDSQ	RPIZ-1.0HNDSQ	RPIZ-1.3HNDSQ	RPIZ-1.5HNDSQ	RPIZ-1.8HNDSQ	RPIZ-2.0HNDSQ	RPIZ-2.3HNDSQ	RPIZ-2.5HNDSQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(6 taps)	dB(A)	33/31/28/25/23.5/22.5	33/31/28/25/23.5/22.5	33/31/28/25/23.5/22.5	31/30/28/25/22/20	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5
Outer Dimension	(H×W×D)	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	20	24	24	24	24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(6 taps)	m³/min	8.5/8/7/6/5.5/5	8.5/8/7/6/5.5/5	8.5/8/7/6/5.5/5	10/9/8/7.5/6.5/6	16.5/15/13/12/10/9	16.5/15/13/12/10/9	16.5/15/13/12/10/9	16.5/15/13/12/10/9
External Static Pressure (*3)		Pa	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-50)	10(0-10-50)	10(0-10-50)	10(0-10-50)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume			0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

NOTE:  
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.  

Cooling Operation Conditions  
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)  
19.0°C WB (66.2°F WB)

Heating Operation Conditions  
Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)  
7.0°C DB (45.0°F DB)

Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)  
Piping Length: 7.5 metre  
Piping Lift: 0 metre

  
2. The sound pressure level is based on following conditions.  
1.4 metre Beneath the unit.  
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).  
Voltage of the power source for the indoor fan motor is 220V.  
(In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.  
3. The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.

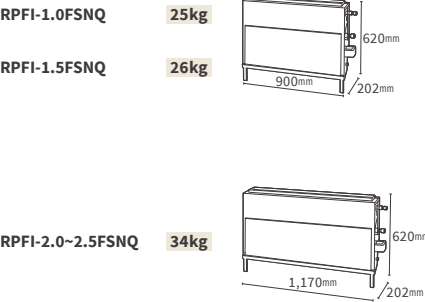
SET FREE Σ HNCQ series

DUCTED

FLOOR CONCEALED TYPE



DIMENSIONS



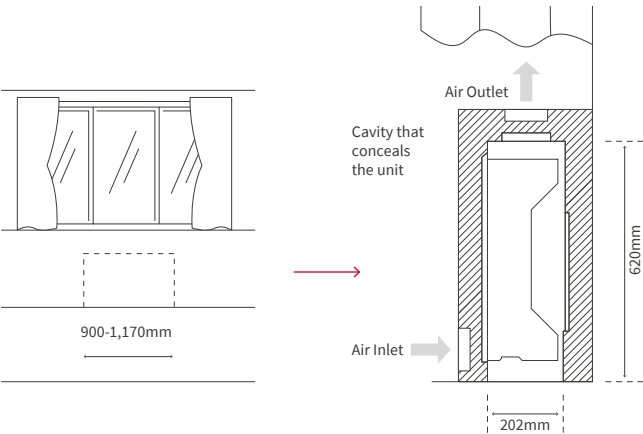
FEATURES AND BENEFITS

Design Flexibility

Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible.

Its low height (only 620mm) enables the unit to fit perfectly beneath a window.

Requires little installation space thanks to its slim 202mm depth.



Model			RPF1-1.0FSNQ	RPF1-1.5FSNQ	RPF1-2.0FSNQ	RPF1-2.5FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]			
Nominal Capacity	Cooling	kW	2.8	4.3	5.6	7.1
	Heating	kW	3.3	4.9	6.5	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	37/34/31	40/38/35	42/38/36	45/43/40
Outer Dimension	(H×W×D)	mm	620×900×202	620×900×202	620×1,170×202	620×1,170×202
Net Weight		kg	25	26	34	34
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7/6	12/8/7	16/12.5/10.5	16/14/11
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.19	0.19	0.23	0.23

NOTE:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)	Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)
19.0°C WB (66.2°F WB)	Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre	Piping Length: 7.5 metre
Piping Lift: 0 metre	Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.

1.0 metre from the unit.

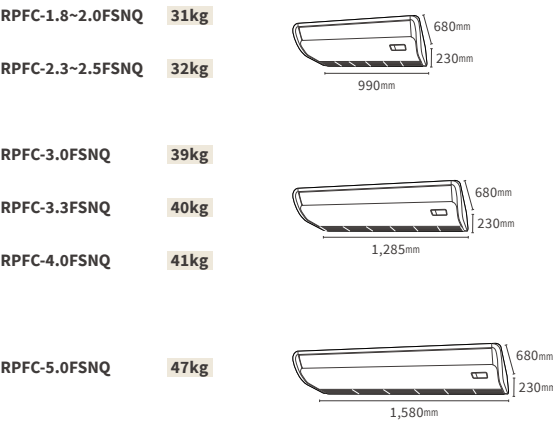
1.0 metre from inlet grille.

The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

FLOOR / CEILING CONVERTIBLE TYPE



DIMENSIONS



FEATURES AND BENEFITS

Adapts to both floor and ceiling

Supplies air to a wide area.

High ceiling use capability.

Smaller footprint: Only 230mm in depth.

Suitable for installation beneath a window thanks to the 680mm height.

New air-intake design

Equipped with air-intakes, the unit connects with ventilations such as a Total Heat Exchanger using a duct, providing better interior air quality.

Model			RPF1-1.8FSNQ	RPF1-2.0FSNQ	RPF1-2.3FSNQ	RPF1-2.5FSNQ	RPF1-3.0FSNQ	RPF1-3.3FSNQ	RPF1-4.0FSNQ	RPF1-5.0FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	5.0	5.6	6.3	7.4	8.4	9.0	11.2	14.2
	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
Sound Pressure Level	Ceiling Mode	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
	Floor Mode	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimension	(H×W×D)	mm	230×990×680	230×990×680	230×990×680	230×990×680	230×1,285×680	230×1,285×680	230×1,285×680	230×1,580×680
Net Weight		kg	31	31	32	32	39	40	41	47
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/h	780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.48

NOTE:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)	Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)
19.0°C WB (66.2°F WB)	Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre	Piping Length: 7.5 metre
Piping Lift: 0 metre	Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.

1.0 metre Beneath the unit.

1.0 metre from Discharge grille.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

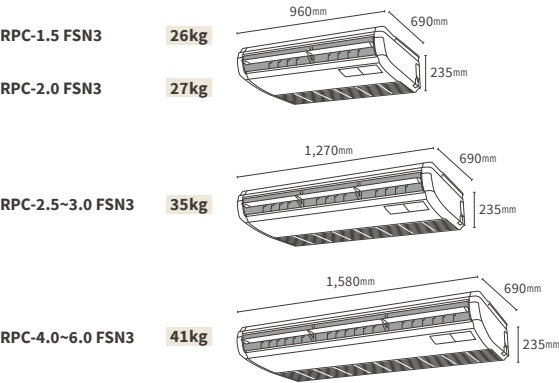
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.



CEILING SUSPENDED TYPE



DIMENSIONS



FEATURES AND BENEFITS

Adaptability

- 1) Wide Detection area of motion sensor (SOR-NEP)**  
(Optional part) to achieve better energy-saving
- 2) Auto louver**  
Soften the discomfort by temperature irregularity and cold draft

Design Flexibility

- Suitable for high ceiling space**  
Thanks to 5.6m cooling air blow down

Model			RPC-1.5FSN3	RPC-2.0FSN3	RPC-2.5FSN3	RPC-3.0FSN3	RPC-4.0FSN3	RPC-5.0FSN3	RPC-6.0FSN3
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]						
Nominal Capacity	Cooling	kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	37/35/31/28	38/35/31/28	38/35/31/28	40/37/33/29	44/42/37/32	48/45/41/35	49/47/42/36
Color			Neutral White						
Outer Dimension (H×W×D)			235×960×690	235×960×690	235×1,270×690	235×1,270×690	235×1,580×690	235×1,580×690	235×1,580×690
Net Weight			26	27	35	35	41	41	41
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	15/13/11/9	19/16.5/14/11.5	21/18.5/15.5/12.5	30/26.5/22/17	35/31/25.5/20	37/32.5/27/21
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP20	VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing Volume			0.23	0.23	0.31	0.31	0.38	0.38	0.38

NOTE:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)	Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)
19.0°C WB (66.2°F WB)	Outdoor Air Inlet Temperature: 7.0°C DB (45.0°F DB)
Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre	Piping Length: 7.5 metre
Piping Lift: 0 metre	Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.

1.0 metre Beneath the unit.

1.0 metre from Discharge grille.

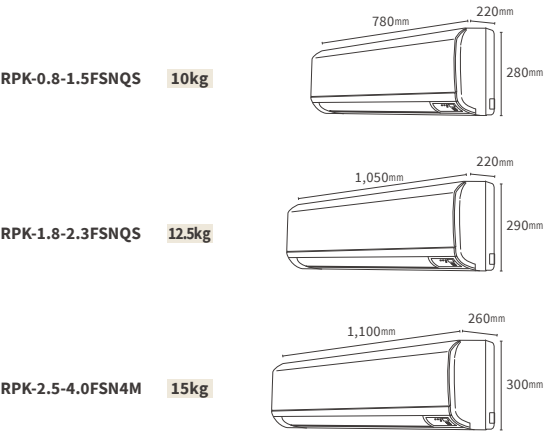
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

WALL MOUNTED TYPE



DIMENSIONS



FEATURES AND BENEFITS

- Simple installation procedure**  
Refrigerant piping can be connected from the rear, base, or left of the unit, providing much greater flexibility for piping and selection of installation sites.
- Flexible design suitable for any décor**  
With smooth flat covers, the units match most modern interiors. Their compact size enables them to blend in, even in small spaces.
- Easy maintenance**  
Front flat panel keeps the unit from dust and facilitates maintenance work. The front grille hinges open easily—no tools are needed to gain quick access to the filter. The filter can be removed and cleaned as required.

Model			RPK-0.8FSNQS	RPK-1.0FSNQS	RPK-1.3FSNQS	RPK-1.5FSNQS	RPK-1.8FSNQS	RPK-2.0FSNQS	RPK-2.3FSNQS
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]						
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3
	Heating	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	38/36/32	38/36/32	40/36/34	41/38/36	42/39/35	42/39/35	45/42/39
Color			White						
Outer Dimension (H×W×D)			280×780×220	280×780×220	280×780×220	280×780×220	290×1,050×220	290×1,050×220	290×1,050×220
Net Weight			10	10	10	10	12.5	12.5	12.5
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7.5/6.5	8.5/7.5/6.5	9.2/7.5/6.7	10/8.5/7.5	12/10.3/8.7	12/10.3/8.7	13.7/12/10.3
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Piping Diameter	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Volume			0.12	0.12	0.12	0.12	0.15	0.15	0.15

Model			RPK-2.5FSN4M	RPK-3.0FSN4M	RPK-4.0FSN4M
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]		
Nominal Capacity	Cooling	kW	7.1	8.0	11.2
	Heating	kW	8.5	9.0	12.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	45/42/38/35	47/44/40/35	51/48/44/39
Color			White		
Outer Dimension (H×W×D)			300×1,100×260	300×1,100×260	300×1,100×260
Net Weight			15	15	15
Refrigerant			R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5
Motor			38	38	38
Connections			Flare-Nut Connection (with Flare Nuts)		
Refrigerant	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52
Piping Diameter	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16
Approximate Packing Volume			0.14	0.14	0.14

NOTE:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

**Cooling Operation Conditions**

Indoor Air Inlet Temperature:	27.0°C DB (80.0°F DB)
	19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature:	35.0°C DB (95.0°F DB)
Piping Length: 7.5 metre	
Piping Lift: 0 metre	

**Heating Operation Conditions**

Indoor Air Inlet Temperature:	20.0°C DB (68.0°F DB)
Outdoor Air Inlet Temperature:	7.0°C DB (45.0°F DB)
	6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre	
Piping Lift: 0 metre	

2. The sound pressure level is based on following conditions.

1.0 metre Beneath the unit.

1.0 metre from Discharge grille.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

VENTILATION

ALL FRESH AIR UNIT



Model			RPI-5.0KFNQ	RPI-8.0KFNQ	RPI-10.0KFNQ	RPI-12.0KFNQ
Unit Power Supply			AC 1Φ, [220-240V/50Hz]			AC 3Φ, [380-415V/50Hz]
Nominal Capacity	Cooling	kW	14.0	22.4	28.0	33.5
	Heating	kW	13.7	21.9	24.5	26.8
Sound Pressure Level		dB(A)	42	44	47	56
Outer Dimensions	(H×W×D)	mm	370×1,320×800	486×1,270×1,069	486×1,270×1,069	486×1,270×1,069
Net Weight		kg	63	110	110	110
Refrigerant			R410A			R410A
Fan Air Flow Rate		m³/h	1,080	1,680	2,100	3,000
External Static Pressure		Pa	200	220	220	220
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7
	Gas Line	mm	Φ15.88	Φ19.05	Φ22.2	Φ25.4
Condensate Drain			VP25, outer diameter: Φ32mm			
Temperature range of fresh air drawn			Cooling: 20.0~43.0°C, Heating: -7.0~15.0°C			

Model			RPI-16.0KFNQL	RPI-16.0KFNQH	RPI-20.0KFNQL	RPI-20.0KFNQH	RPI-20.0KFNQLF	RPI-20.0KFNQHF
Unit Power Supply			AC 3Φ, [380-415V/50Hz]					
Nominal Capacity	Cooling	kW	45.0	45.0	56.0	56.0	56.0	56.0
	Heating	kW	36.0	36.0	44.8	44.8	44.8	44.8
Sound Pressure Level		dB(A)	58	62	61	65	63	67
Outer Dimensions	(H×W×D)	mm	635×1,950×805	635×1,950×805	735×1,950×805	735×1,950×805	735×1,950×805	735×1,950×805
Net Weight		kg	196	196	222	222	222	222
Refrigerant			R410A					
Fan Air Flow Rate		m³/h	4,000	4,000	5,000	5,000	6,000	6,000
External Static Pressure		Pa	200	300	200	300	200	300
Refrigerant Piping Diameter	Liquid Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Gas Line	mm	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Condensate Drain			RC1 (Internal Screw)					
Temperature range of fresh air drawn			Cooling: 20.0~43.0°C, Heating: -7.0~15.0°C					

- NOTE:
- Cooling capacity and heating capacity test in the following conditions:  
Cooling conditions: 33.0°CDB, 28.0°CWB, pipeline length 7.5 metre, pipe height difference 0 metre  
Heating conditions: 0°CDB, -2.9°CWB, pipeline length 7.5 metre, pipe height difference 0 metre ( heating is the data without defrosting)
  - Noise test conditions are as follows:  
At a distance of 1.5 metre from the unit surface.  
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be counted at the scene.
  - An air filter with dust removal efficiency of 50% or more needs to be installed at the air inlet.
  - When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.
  - Air processor can only be used for processing fresh air, indoor air conditioning load processing need to use other air conditioners.
  - Refer to capacity restrains shown on Table below for indoor unit capacity connectable to outdoor unit.

System	Only All Fresh Air Unit System	Mixed System (All Fresh Air Unit and Other Indoor Unit)
Range of Combination Capacity	80 to 100%	i) 80 to 100% and ii) Total Capacity of All Fresh Air: 30%

- When outdoor temperature is below 20.0°C in cooling operation, the system will be automatically converted to ventilation operation. When outdoor temperature is higher than 15.0°C in heating operation, it will be automatically converted to ventilation operation. When lower than -7.0°C, the fresh air processing unit will stop running.

TOTAL HEAT EXCHANGER



Model			KPI-20H-A-GQ	KPI-30H-A-GQ	KPI-40H-A-GQ	KPI-50H-A-GQ	KPI-65H-A-GQ	KPI-80H-A-GQ	KPI-100H-A-GQ	KPI-125H-A-GQ
Unit Power Supply			AC 1Φ, [220/50Hz]							
Temp. Efficiency	Summer (Hi/Me/Lo)	%	64/64/70	60/60/65	61/61/66	60/60/62	65/65/69	65/65/69	65/65/69	65/65/69
	Winter (Hi/Me/Lo)	%	80/80/83	77/77/80	79/79/81	75/75/76	75/75/78	74/74/78	72/72/76	70/70/78
Enthalpy Efficiency	Summer (Hi/Me/Lo)	%	69/69/76	63/63/70	64/64/69	63/63/65	57/57/60	60/60/63	58/58/63	53/53/61
	Winter (Hi/Me/Lo)	%	75/75/78	70/70/75	70/70/75	69/69/71	65/65/70	70/70/72	66/66/69	63/63/72
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/30/25	36/34/28	39/37/30	40/38/31	40/38/35	40/38/34	43/42/34	42/40/37
Outer Dimension	(H×W×D)	mm	220×962×735	220×962×735	220×1,112×735	220×1,112×735	388×1,119×884	388×1,119×884	388×1,119×884	430×1,250×1,135
Net Weight		kg	38	40	46	52	61	69	69	95
Air Flow Rate		m³/h	200/200/150	300/300/210	400/400/230	500/500/400	650/650/550	800/800/650	1,000/1,000/700	1,250/1,250/800
External Static Pressure		Pa	100/70/40	120/90/50	120/90/50	120/90/50	130/100/90	130/100/90	165/120/60	100/50/30
Power Input		W	120/110/75	165/155/120	210/200/130	330/310/230	2×(188/173/142)	2×(207/188/165)	2×(250/228/205)	2×(308/266/237)
Current		A	0.6/0.5/0.4	0.8/0.7/0.6	1.0/1.0/0.7	1.6/1.5/1.1	1.72/1.58/1.31	2.04/1.93/1.73	2.35/2.09/1.92	3.03/2.45/2.18
Connection Duct Diameter		mm	Φ144	Φ144	Φ144	Φ194	Φ242	Φ242	Φ242	320×250 +320×250
Approximate Packing Volume		m³	0.37	0.37	0.43	0.49	0.94	1.15	1.15	1.25

Model			KPI-150H-E-GQ	KPI-200H-E-GQ	KPI-250H-E-GQ	KPI-300H-E-GQ	KPF-400H-E-GQ	KPF-500H-E-GQ
Unit Power Supply			AC 3Φ, [380/50Hz]					
Temp. Efficiency	Summer	%	63	63	63	63	63	63
	Winter	%	68	72	75	75	73	73
Enthalpy Efficiency	Summer	%	57	57	55	56	55	53
	Winter	%	68	68	72	72	63	61
Sound Pressure Level		dB(A)	50	51	53	54	57	58
Outer Dimension	(H×W×D)	mm	536×1,500×1,300	536×1,500×1,400	640×1,700×1,500	640×1,750×1,600	1,655×1,400×850	1,730×1,700×850
Net Weight		kg	144	155	180	220	225	260
Air Flow Rate		m³/h	1,500	2,000	2,500	3,000	4,000	5,000
External Static Pressure		Pa	165	160	180	200	220	240
Power Input		W	2×440	2×810	2×925	2×1,080	2×1,470	2×1,980
Current		A	2.84	3.08	4.19	5.23	5.57	7.51
Connection Duct Diameter		mm	400×320 +400×320	400×320 +400×320	500×350 +500×350	500×350 +500×350	400×320 +590×320	500×350 +700×320
Approximate Packing Volume		m³	1.82	1.95	2.63	2.93	3.01	3.75

NOTE:  
Please confirm the model name for "wires remote controller" compatible with Total Heat Exchanger to your local distributor.



OPTIONAL PARTS

(Each number (HP class) represents the number in the model nomenclature of each indoor units)

CEILING CASSETTE

4-way cassette type

Decoration Panel		- (Standard)
Receiver Kit	Basic	HR4A10NEWQ
	Advanced	PC-ALH3
Motion Sensor		PS-MSK2
Duct Adapter		PD-75A
Condensate Drain Pump		- (Standard)



4-way cassette compact type

Decoration Panel		P-AP56NAM
Receiver Kit	Advanced	PC-ALHC1
Motion Sensor		SOR-NEC
Duct Adapter		PD-75C
Condensate Drain Pump		- (Standard)



2-way cassette type

Decoration panel	0.8-3.0 (HP class)	P-AP90DNA
	4.0-6.0 (HP class)	P-AP160DNA
Receiver kit	Advanced	PC-ALHD1
Motion Sensor		SOR-NED
Duct Adapter		PD-150D
Condensate Drain Pump		- (Standard)



1-way cassette type

Decoration Panel	0.8-1.0 (HP class)	P-AP36CNA
	1.5-2.0 (HP class)	P-AP56CNA
	2.5-3.0 (HP class)	P-AP80CNA
Receiver Kit	Advanced	PC-ALHS1
Motion Sensor		SOR-NES
Duct Adapter		PD-100
Condensate Drain Pump		- (Standard)



DUCTED



Receiver Kit	Basic		PC-RLH11
	Advanced		PC-ALHZ1
Condensate Drain Pump	0.8-2.5 (HP class)		DUPI-131Q
	3.0-6.0 (HP class)		DUPI-361Q
	8.0-10.0 (HP class)		DUPI-15H2Q
	Slim/Compact		- (Standard)
Air filter	Medium ESP/Low ESP	0.8-1.5 (HP class)	KW-PP7Q
	Medium ESP/Low ESP	1.8-2.5 (HP class)	KW-PP8Q
	High ESP/Low ESP	3.0-4.0 (HP class)	KW-PP9Q
	High ESP/Low ESP	5.0-6.0 (HP class)	KW-PP10Q
	Compact	0.8-1.5 (HP class)	KW-PP5Q
	Compact	1.8-2.5 (HP class)	KW-PP6Q

OTHERS

Floor concealed type

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1



Ceiling/Floor convertible type

Receiver Kit	Basic	- (Standard)
	Advanced	PC-ALHZ1



Basic Receiver kit is delivered as a standard part of this Ceiling/Floor Convertible type indoor units in the same carton package, with Wireless Remote Controller (PC-LH3A).

Ceiling suspended type

Receiver kit	Advanced	PC-ALHP1
Motion Sensor		SOR-NEP
Condensate Drain Pump	1.5 (HP class)	DUPC-63K1
	2.0 (HP class)	DUPC-71K1
	2.5-6.0 (HP class)	DUPC-160K1



Wall mounted type

Receiver kit	Basic	PC-RLH11 (*1)
	Advanced	PC-ALHZ1 (*2)
Strainer kit	0.8-2.3 (HP class)	MSF-NP63A1
	2.5-4.0 (HP class)	MSF-NP112A1



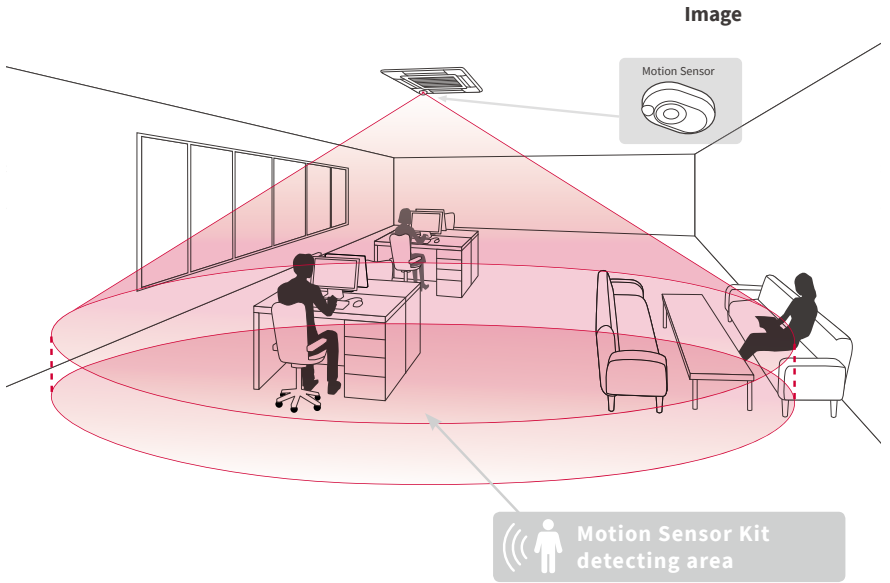
(\*1) (0.8-2.3HP class)  
Basic Receiver kit is delivered as a standard part of this wall mounted unit with Wireless Remote Controller (PC-LH3A).  
(\*2) (2.5-4.0HP class)  
Advanced Receiver kit is installed in this wall mounted unit as a standard part.  
If separate placement of receiver kit is required, please use optional basic receiver kit (PC-RLH11) or optional advanced receiver kit (PC-ALHZ1).

<Receiver Kit>  
Basic Limited function available for centralized controllers  
Temperature Setting Rate [1.0°C] only  
Advanced Full function available for centralized controllers  
Temperature Setting Rate [0.5°C/1.0°C/1.0°F]

INTRODUCTION OF MOTION SENSOR KIT

What is it?

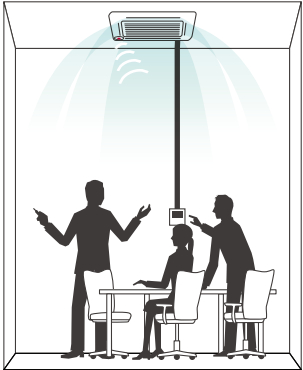
It senses the amount of human activity, undertakes automatic saving and achieves intelligent energy saving.



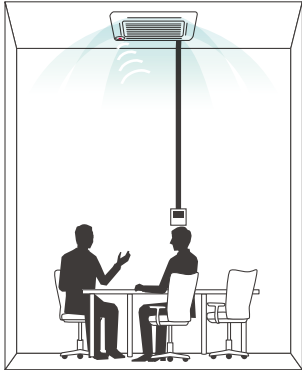
How does it work?

Perceives the amount of human activity and undertakes automatic saving.

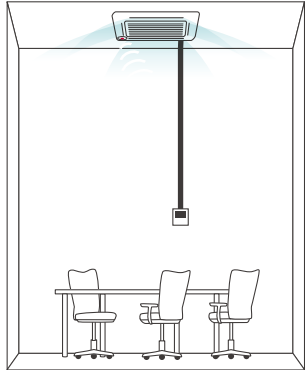
<example>



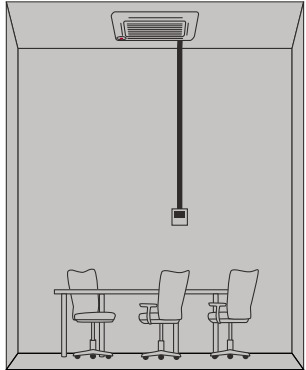
Standard operation for a room with a lot of human movement.



Moderate operation for a room with little human movement.



More moderate operation if people are absent for a certain period.



It is also possible to stop the operation of the unit by applying a particular setting if people remain absent for more than 30 minutes.

MODEL

Motion Sensor Kit	Indoor Unit
PS-MSK2	4-way cassette type
SOR-NEC	4-way cassette compact type
SOR-NED	2-way cassette type

Motion Sensor Kit	Indoor Unit
SOR-NES	1-way cassette type
SOR-NEP	Ceiling Suspended type

※ Motion Sensor Kit is available only when advanced wired remote controller (PC-ARF1) is connected to each indoor unit.








# Management made simple

We all like to have control over the indoor spaces where we live, work and play. That power is at your fingertips with a range of controllers for every application. Simple and intuitive interfaces, wireless mobility and seamless connectivity make managing even the most complex systems second nature.








LINE UP OVERVIEW

COMPARING INDIVIDUAL CONTROLLERS

		WIRED REMOTE CONTROLLER	SIMPLIFIED WIRED REMOTE CONTROLLER	ADVANCED WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER	
							
		HCWA10NEGQ	PC-ARH1	PC-ARF1	HCRB10NEWQ	PC-LH3A	
Connection Capacity	RCS Groups	1	1	1	-	-	
	Indoor units (*1)	16	16	16	-	-	
Setting	Temperature Setting Rate (*2)	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	1.0°C	
	Indoor Fan Speed (*2) (*3)	3/4/6 taps	3/4/6 taps	3/4/6 taps	3/4/6 taps	3 taps	
	Louver Direction (*2)	●	●	●	●	●	
	Individual Louver Setting (*2)	●	-	●	-	-	
	Remote Control Primary-Secondary Setting		-	●	●	-	-
	Function Selection	Automatic Restart with Eco-operation	-	●	●	-	-
		Automatic Reset Temperature (Cooling)	●	●	●	-	-
		Temperature Indication (*4)	●	-	●	-	-
Service & Installation	Filter Sign	●	-	●	-	-	
	Filter Sign Reset	●	-	●	●	●	
	Louver Open/Close	-	-	●	-	-	
	Room Name Setting	-	-	●	-	-	
	Alarm Sign	●	●	●	-	-	
	Identifying indoor units side-by-side	-	-	-	●	●	
	Screen	Screen Adjustment	-	-	●	-	-
		Language	-	-	●	-	-
		Temperature Unit °C/°F	●	● (*5)	●	●	-
		Adjusting Brightness of Run Indicator	-	-	●	-	-
	Check Menu	Sensor Condition Check	●	-	●	-	-
		Model Display (*2)	-	-	●	-	-
		Indoor/Outdoor PCB Check	-	-	●	-	-
		Alarm History Display	●	-	●	-	-
	Management	Operation Lock/Set	● (*6)	-	●	-	-
Lower Limit for Cooling Operation		●	●	●	-	-	
Upper Limit for Heating Operation		●	●	●	-	-	
Built-in Timer (On/Off)		●	-	●	●	●	
Adjusting Date/Time Setting		●	-	●	-	-	
Automatic OFF timer setting		-	●	●	-	-	
Schedule		Weekly Schedule	●	-	●	-	-
		Settable Timer Operation Times (Per Day)	1	-	5	-	-
	Holiday Setting	-	-	●	-	-	
	Schedule On/Off	-	-	●	-	-	
Power Saving	Power Saving with Motion Sensor		-	-	●	-	-
	Outdoor Unit capacity control	Peak cut control	-	-	●	-	-
		moderate control	-	-	●	-	-
	Indoor Unit Rotation Control	Indoor Unit Address	-	-	●	-	-
		Indoor Air Temperature difference	-	-	●	-	-
MENU	Automatic Fan Operation		-	-	●	-	-
	ODU silent mode		-	-	●	-	-
	Quick Function		-	-	●	-	-
	Comfort setting	Control Cool Air	-	-	●	-	-
	Saving/ODU Noise Reduction Schedule		-	-	●	-	-
	Daylight Saving Time		-	-	●	-	-
Power Consumption visualization		-	-	●	-	-	

(\*1) All 16 indoor units need to be connected with transition wire.  
(\*2) Availability depends on the indoor unit type connected to the each individual controllers. Please consult your distributors for more details.  
(\*3) 6 taps is available for Ducted indoor unit, compact type, RPIZ-HNDTSQ only.  
(\*4) Indicated temperature can be selected from two options, the thermistor in the indoor unit or in the individual controller.  
(\*5) Please contact your distributor in case temperature unit needs to be changed from °C to °F.  
(\*6) Only "bulk operation lock" available.

COMPARING CENTRALIZED CONTROLLERS

		CENTRAL STATION mini	CENTRAL STATION EZ	CENTRAL STATION EX	CENTRAL STATION	CENTRALIZED ON/OFF CONTROLLER
						
		PSC-A32MN	PSC-A64GT	PSC-A128EX	PSC-A64S	PSC-A16RS
Capacity comparison	RCS group	32	64	2,560 (*1)	64	16
	Group	4	64	2,048 (*1)	64	-
	Block	2/4/8/16	4	512 (*2)	4	-
	Area	-	-	512 (*2)	-	-
	Indoor unit	160	160	2,560 (*1)	160	160
	Outdoor unit	64	64	1,024 (*1)	64	-
	Building scale	Small	Medium	Large	Medium	Medium
Display	Operation	Touch screen	Touch screen	Touch screen	Button	Button
	Operation panel size options	4	2	7	-	-
	Layout	-	-	●	-	-
	List options	-	-	3	-	-
Operation unit	All together	●	●	●	●	●
	By layout	-	-	●	-	-
	By area	-	-	●	-	-
	By block	●	●	●	●	-
	By group	-	-	●	-	-
	By RCS group	●	●	-	●	●
	By indoor unit	-	-	●	-	-
Control Function	Main 5 functions (*5)	●	●	●	●	- (*6)
	Individual controller lock	●	△ (*3)	●	●	-
	Filter sign reset	●	●	●	●	-
	Outdoor unit capacity control	△ (*4)	-	●	-	-
	Outdoor unit noise control	-	-	●	-	-
Monitor Function	Main 5 functions (*5)	●	●	●	●	-
	Individual controller lock	●	●	●	●	-
	Alarm status & code	●	●	●	●	- (*7)
	Filter sign	●	●	●	●	-
	Air inlet temperature of indoor unit	●	●	●	-	-
Schedule Function	Air inlet temperature of outdoor unit	●	●	●	-	-
	Weekly	●	●	●	- (*8)	- (*8)
	Setting times per day	10	10	16	3 (*8)	3 (*8)
	Special day setting	-	-	5	-	-
	Annual/Summer/Winter schedule	-	-	●	-	-
Other function	Alarm history (records number)	100	100	10,000	-	-
	External in/output history	-	-	1,000	-	-
	Management report visualization	●	●	●	-	-
	Data output by external media	-	-	SD card, USB flash device	-	-

(\*1) One external adapter can control (128 remote controller groups/128 groups/32 blocks), and Central Station EX can connect up to 15 adapters.  
(\*2) No restriction on the number of H-LINK  
(\*3) Individual Function Control in Each Remote Controller is not applicable  
(\*4) Applicable by Schedule function or External Signal input  
(\*5) Main 5 functions mean 1) Run/Stop 2) Operation mode 3) Temperature setting 4) Fan speed 5) Louver control  
(\*6) Only Run/Stop is available  
(\*7) Alarm Code cannot be displayed, but Operation indicator keeps flashing in red to inform abnormal condition  
(\*8) Available with 7-day timer (PSC-A1T)

WIRED REMOTE CONTROLLER HCWA10NEGQ

Temperature display

Room temperature

RT 26.0°C RT 79.0°F

Set temperature

SET 26.0°C SET 79.0°F

ON/OFF Button

Mode Button

Operation Mode

Cooling Mode

Heating Mode

Dry Mode

Fan Mode

Auto Mode

Liquid Crystal Display (LCD) Screen

Up Button & Down Button

Fan Speed Setting

Timer/Clock Setting

Fan Speed

(flickering)

MAX

MIN

Timer Setting

ON Timer On

OFF Timer Off

ONCE Timer Valid for One Time

DAILY Timer Valid for One Day

WEEKLY Timer Set for a Week

SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 88.0×88.0×15.5

FUNCTIONS

Setting	Run/Stop
	Operation Mode
	Auto Mode
Service	Temperature Setting Rate_0.5°C/1.0°C/1.0°F
	Temperature Unit_°C/°F
	Fan Speed_3/4/6 taps
Schedule & Management	Louver Direction
	Individual Louver Setting
	Filter Sign
Service	Filter Sign Reset
	Alarm Sign
	Alarm Sign History
Schedule & Management	Daily Timer
	Weekly Timer
	Main-sub Control
Service	Operation Lock

Notes:

1. Fan Speed Taps setting unit availability varies with the indoor unit. Please check each technical catalog in advance.

2. Initial Setting of temperature display is "Set temperature" display only. Please contact your dealer to display room temperature.

SIMPLIFIED WIRED REMOTE CONTROLLER PC-ARH1

Run Indicator (Red)

ON/OFF Switch

Operation Mode Switch

By repeatedly pressing the button, the setting will change sequentially.

TEMP (Temperature Setting) Switch

Swing Louver (Swing Louver Operation) Switch

Fan Speed Switch

By repeatedly pressing the button, the fan speed setting will change sequentially.

SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 120.0×70.0×17.0

FUNCTIONS

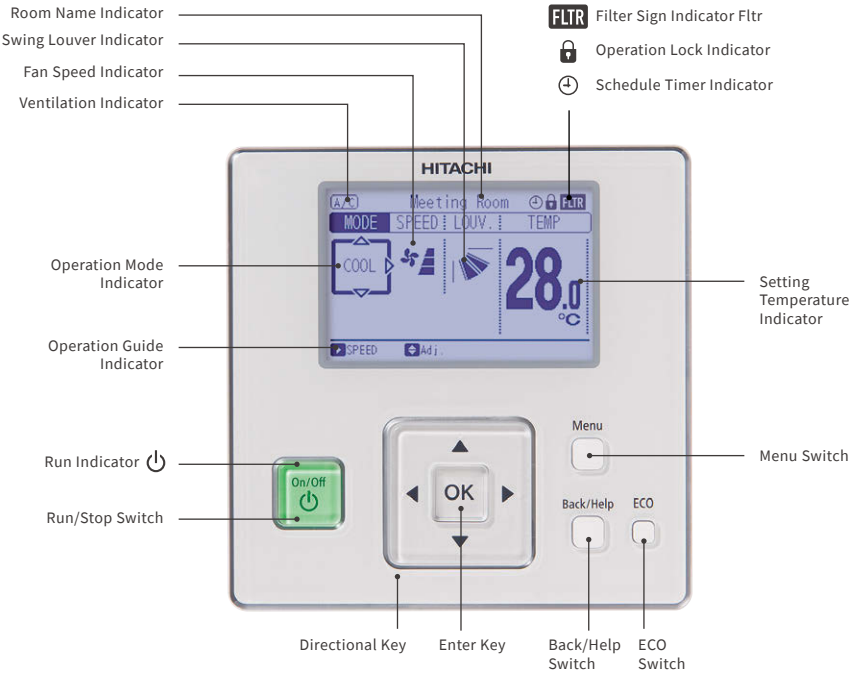
Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
Service	Temperature Setting
	Temperature setting rate_0.5°C/1.0°C/1.0°F
	Back-light screen
Schedule & Management	Fan Speed_3/4/6 taps
	Louver Direction

\*Please contact your dealer in case "temperature setting rate" needs to be changed from °C to °F.





ADVANCED WIRED REMOTE CONTROLLER PC-ARF1

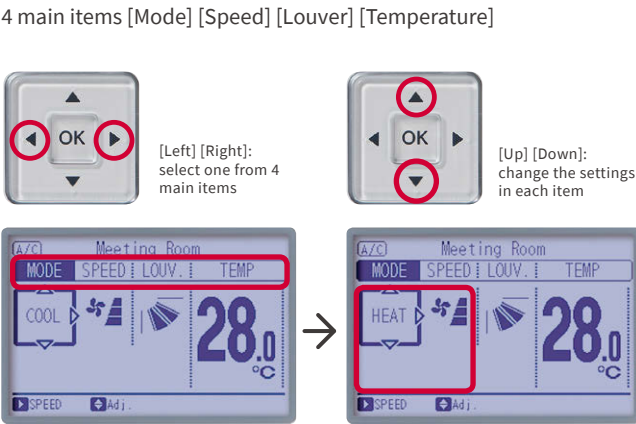


SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 120.0×120.0×17.9

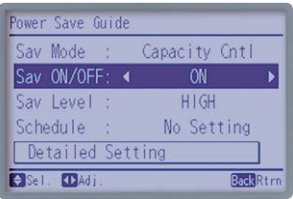
SIMPLE OPERATION

Directional Key



Power-saving button

Easy access to the any power-saving functions, including support-guidance.

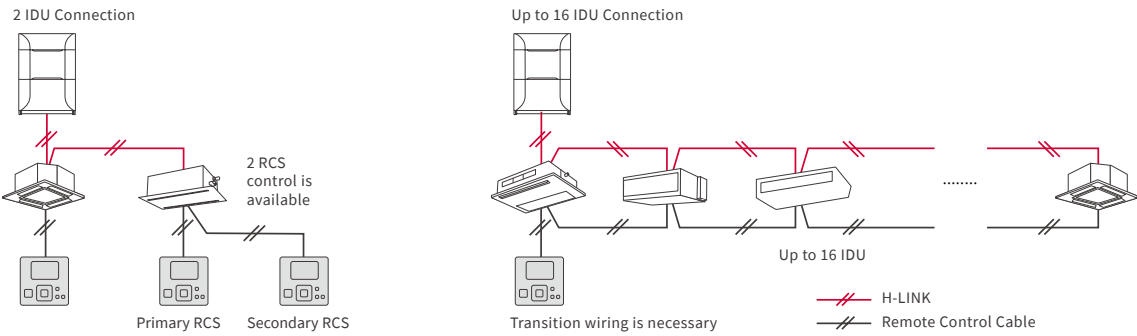


Menu button

Display all setting except 4 main items, like schedule.



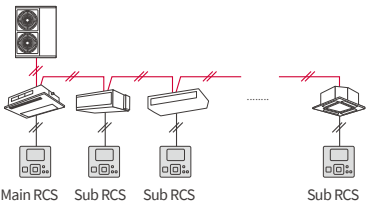
EXAMPLE OF SYSTEM CONFIGURATION



ADAPTABILITY

Improved main-sub RCS control

By one main RCS, you can control the multiple IDUs which are controlled by sub RCS.  
\* Operation Mode  
\* Setting Temperature



Thermometer function

Current temperature can be displayed anytime, without being in maintenance mode.  
\*Thermometer can be chosen out of 3 sensors (Air inlet, Air outlet, Remote controller)



FUNCTIONS

Setting	Run/Stop	Service	Filter Sign	Power-Saving	With Motion Sensor Kit
	Operation Mode		Filter Sign Reset		ODU Capacity Control
	Auto Mode Setting		Louver Open/Close		• Peak Shaving Control
	Temperature Setting		Room Name Setting		• Proper Limit Control
Function Selection	Temperature Setting Rate_0.5°C/1.0°C/1.0°F	Screen	Alarm Sign	Schedule	Indoor Unit Rotation Control
	Fan Speed_3/4/6 taps		Alarm History Display		Automatic Fan Operation
	Louver Direction		Screen Adjustment		Auto Recovery of Temperature
	Individual Louver Setting		Temperature Unit_°C/°F		Upper Limit for Heating Operation
Function Selection	Remote Control Primary-Secondary Setting	Management	Adjusting Brightness of Run Indicator		Lower Limit for Cooling Operation
	Automatic Restart with Eco-operation		Operation Lock/Set	Schedule	Weekly Schedule
	Automatic Reset Temperature (Cooling/Heating)		Main/Sub Control		Settable Timer Operation Times (per day): 5
	Temperature Indication		Built-in-Timer (On/Off)		Holiday Setting
			Adjusting Date/Time Setting		Schedule On/Off
			Thermometer Indication		ODU Noise Reduction Schedule

Alarm code check

Contact address shown in the same display.



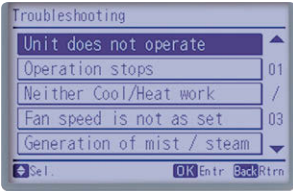
ODU silent mode

Set in the weekly schedule by 5 times.

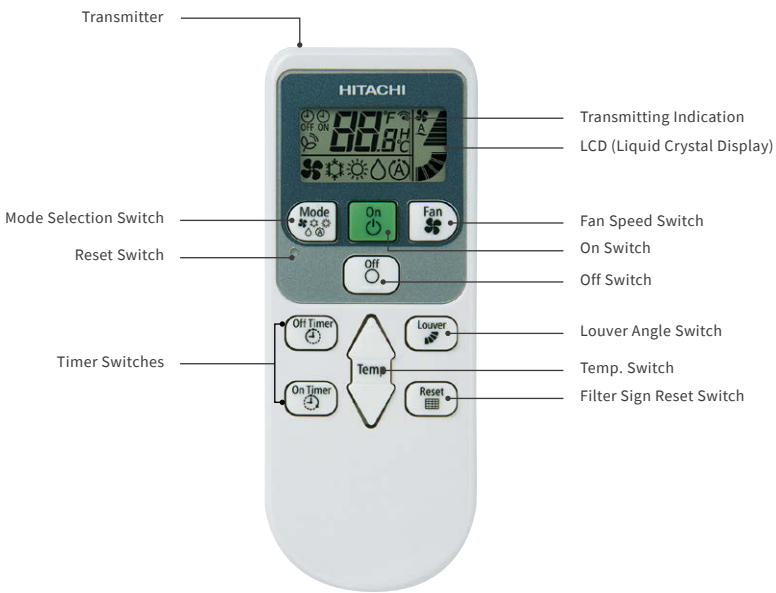


Help Menu

Access when in trouble.  
Screen guide, Operation Manuals, Troubleshooting Q&A listed.



ADVANCED WIRELESS REMOTE CONTROLLER HCRB10NEWQ



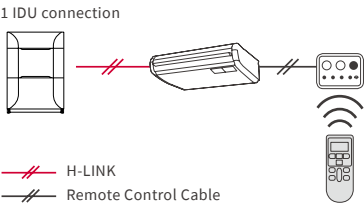
SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 140.0×55.0×16.8

FUNCTIONS

Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate_0.5°C/1.0°C/1.0°F
Service	Fan Speed_3/4/6 taps
	Louver Direction
	Filter Sign Reset
	Identifying indoor units side-by-side
	Temperature Unit_°C/°F
Schedule	Built-in Timer (On/Off)

EXAMPLE OF SYSTEM CONFIGURATION



WIRELESS REMOTE CONTROLLER PC-LH3A



SPECIFICATIONS



















Outer Dimensions (H×W×D)  
(mm) 125.0×56.0×16.4

FUNCTIONS

Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate_1.0°C
Service	Fan Speed_3 Taps
	Louver Direction
	Identifying indoor units side-by-side
	Temperature Unit_°C
Schedule	Built-in Timer (On/Off)

※When you use Standard Receiver kit equipped with PC-LH3A (Wired Remote Controller), Centralized Controller cannot be operated.

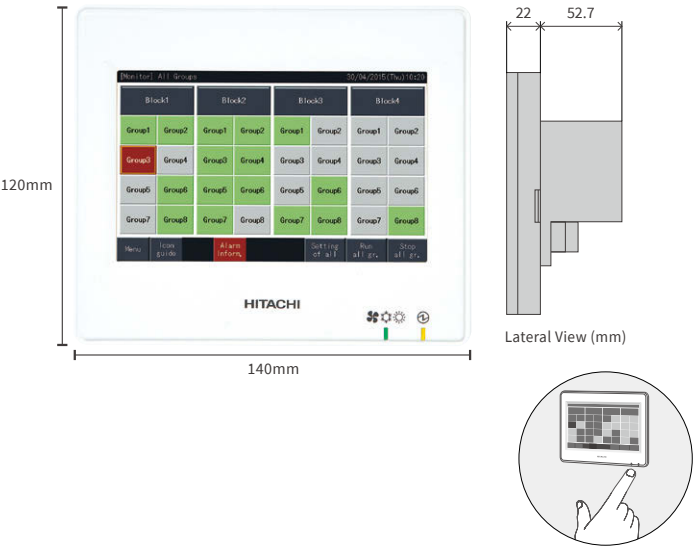
RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

Model	HR4A10NEWQ (Basic) (*1)	PC-ALH3 (Advanced)	PC-ALHC1 (Advanced)	PC-ALHD1 (Advanced)	PC-ALHS1 (Advanced)	PC-ALHP1 (Advanced)	PC-RLH11 (Basic) (*1)	PC-ALHZ1 (Advanced)	
									
IDU type	4-way cassette  RCI-FSKDNQ	4-way cassette compact  RCIM-FSN4	2-way cassette  RCD-FSN3	1-way cassette  RCS-FSN	Ceiling suspended  RPC-FSN3	Ducted  RPIH-HNAUNQ RPIM-HNAUNQ RPIL-HNAUNQ RPIZ-FSNQS/P RPIZ-HNATNQ RPIZ-HNDTSQ RPI-FSNQ RPI-FSN3Q	Floor concealed  RPFI-FSNQ	Floor/ceiling convertible  RPFC-FSNQ (*2)	Wall mounted  RPK-FSNQS (*2) RPK-FSN4M (*3)
Compatible wireless remote controller	 HCRB10NEWQ  PC-LH3A	●	●	●	●	●	●	●	
	●	—	—	—	—	—	●	●	
<b>Basic</b> Limited function available for centralized controllers Temperature Setting Rate [1.0°C] only <b>Advanced</b> Full function available for centralized controllers Temperature Setting Rate [0.5°C/1.0°C/1.0°F]									
(*1) Fan speed = 3 taps available only when you use the basic receiver kit (PC-RLH11 or HR4A10NEWQ) (*2) Concerning only (Floor/Ceiling Convertible type: RPFC-FSNQ) & (Wall Mounted Unit: RPK-FSNQS), Basic Receiver kit is delivered as a standard part of these indoor units in the same carton package, with Wireless Remote Controller (PC-LH3A). (*3) Concerning only (Wall Mounted Unit: RPK-FSN4M), Advanced Receiver kit is installed in this wall mounted unit as a standard part. If separate placement of receiver kit is required, please use optional basic receiver kit (PC-RLH11) or optional advanced receiver kit (PC-ALHZ1).									
<b>Notes</b> When you use basic receiver kit (PC-RLH11 or HR4A10NEWQ) equipped with wireless remote controller (PC-LH3A) 1) Setting Hi2 is not available even if the connected indoor units has Hi2 air flow rate setting 2) It is not available to set up "remote control switch operation prohibited by each function setting" from central station (mini/EZ/EX) 3) It is not available to set up "remote control switch temperature setting range limitation function" from central station (mini/EZ/EX)									





CENTRAL STATION mini FOR SMALL-SCALE BUILDINGS  
PSC-A32MN

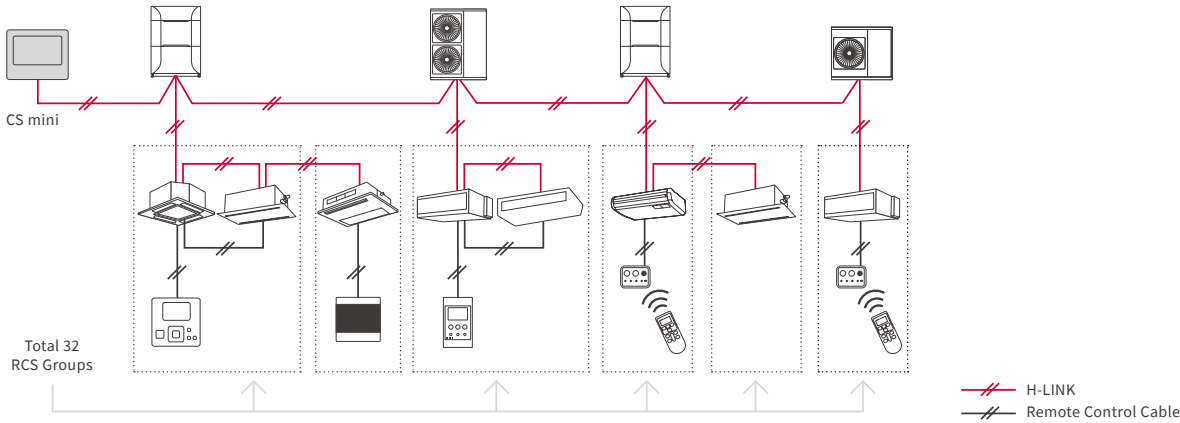


Most compact in our touch panel centralized controller. Its down-to-detail control functionalities, such as Weekly Scheduling, Accumulated Work Hours, etc., help you save energy. Up to 32 remote-controlled groups and up to 160 indoor units can be connected to the single air-conditioning system.

RECOMMENDED FACILITIES



EXAMPLE OF SYSTEM CONFIGURATION



CAPACITY

RC group	32
Group	32
Block	4 Patterns (2/4/8/16)
Indoor Unit	160
Outdoor Unit	64
Building Scale	Small

SPECIFICATIONS

Rated Power Supply	1-, AC 100-240V, 50/60Hz
Electrical Power Consumption	20W (Max.)
Communication Unit	Units of Adopting for H-LINK
Communication Line	Non-polar 2-wire
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	5.0-inch Wide Color LCD (Full Dot)
Display Control	Touch Panel

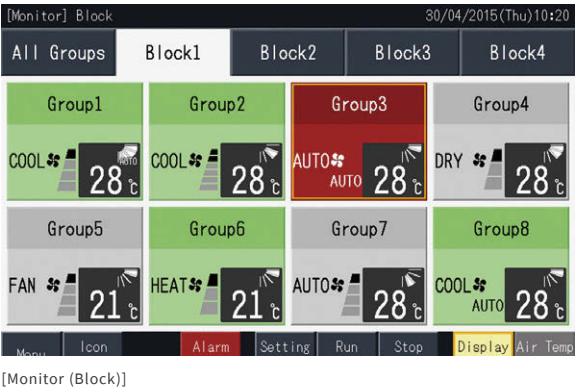
FUNCTIONS

Monitor Function	<ul style="list-style-type: none"><li>Run/Stop/Abnormality</li><li>Setting Temperature</li><li>RCS Operation Prohibited Setting</li><li>Accumulated Operating Time</li><li>Operation Mode</li><li>Setting Fan Speed</li><li>Setting Louver</li><li>Filter Sign</li><li>Alarm Code</li></ul>
Control Function	<ul style="list-style-type: none"><li>Run/Stop*</li><li>Fan Speed</li><li>Operation Mode</li><li>Louver</li><li>Temperature Setting</li><li>RCS Operation Prohibited</li><li>Filter Sign Reset</li></ul>

\* "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function.

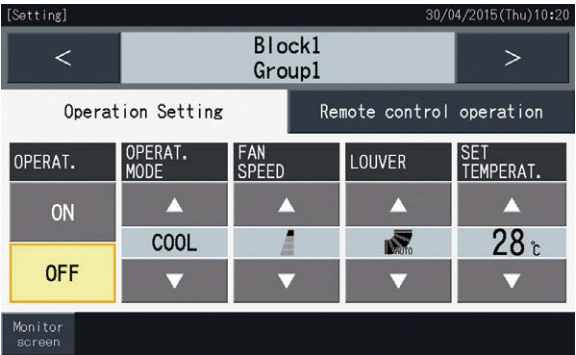
(5-inch) Touch Panel Operation

Easy to check the operation status using either of two monitoring screens (all groups or four pattern blocks [2/4/8/16])



RCS Group Function Control

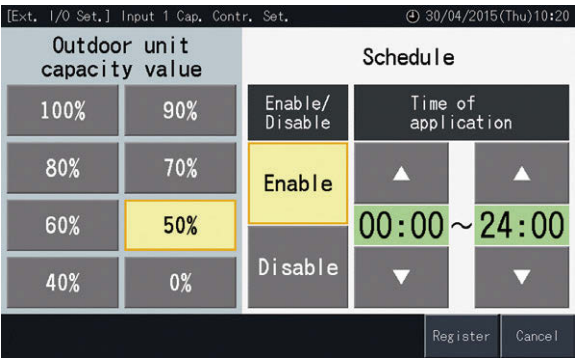
-each operational item blocking-prevent incorrect operation



ON/OFF, "operation mode," "fan speed," "swing louver direction," "setting temperature," and "prohibition of remote control operation for individual items (run/stop, operation mode, fan speed, wind direction, setting temperature)"

Energy Saving

Outdoor unit power consumption control by schedule or external signals. Setting temperature range.



[Capacity Control of ODU]

Schedule

Up to 10 actions/day per RCS group can be set as available as auto switch-off timer



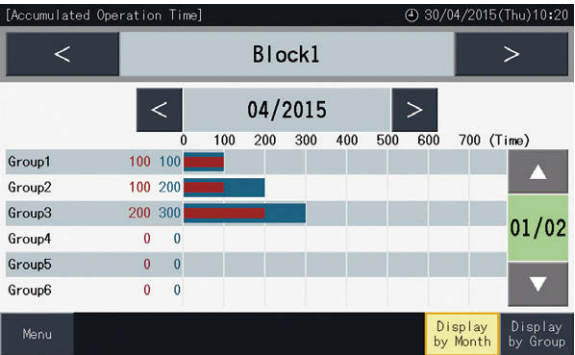
For example: School

[Schedule] Settings List		In case of classroom in cooling mode	
Block1 Group1		mini	
Monday	Tuesday	Wednesday	Thursday
No. 1 08:30 ON 28	No. 2 12:00 OFF 28	No. 3 12:00 OFF 28	No. 4 12:00 OFF 28
No. 5 12:00 OFF 28	No. 6 12:00 OFF 28	No. 7 12:00 OFF 28	No. 8 12:00 OFF 28
No. 9 12:00 OFF 28	No. 10 12:00 OFF 28	No. 11 12:00 OFF 28	No. 12 12:00 OFF 28
Return to Group Setting		Off/On/Temp/Setting	

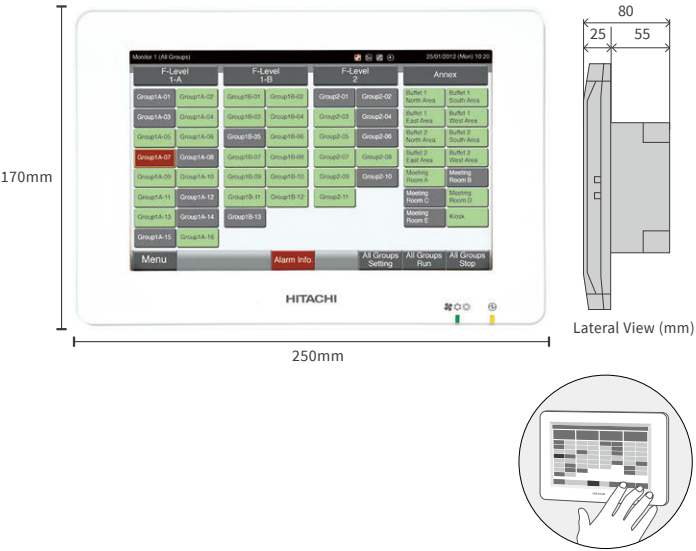
9:00 ~ 10:00	27 °C	Class: on
10:00 ~ 11:00	27 °C	Class: on
11:00 ~ 12:00	- °C	No class: off
12:00 ~ 13:00	25 °C	LUNCH TIME
13:00 ~ 14:00	- °C	No class: off
14:00 ~ 15:00	27 °C	Class: on
15:00 ~ 16:00	- °C	No class: off
16:00 ~ 17:00	27 °C	Class: on
17:00 ~	- °C	No class: off

Accumulated Operation-Time Visualization

Support energy-saving management



CENTRAL STATION EZ FOR MEDIUM-SCALE BUILDINGS  
PSC-A64GT

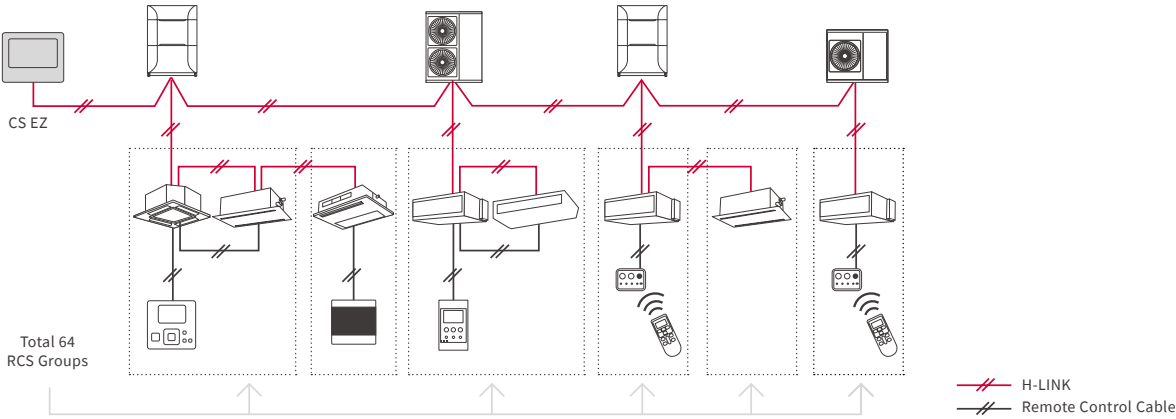


Easy control with 8.5 inch color touch panel, Its down-to-detail control functionalities, such as Weekly Scheduling, Accumulated Work Hours, etc., help you save energy. Up to 64 remote-controlled groups and up to 160 indoor units can be connected to the single air-conditioning system.

RECOMMENDED FACILITIES



EXAMPLE OF SYSTEM CONFIGURATION



CAPACITY

RC group	64
Group	64
Block	4 Patterns
Indoor Unit	160
Outdoor Unit	64
Building Scale	Small-Medium

SPECIFICATIONS

Rated Power Supply	1-, AC 100-240V, 50/60Hz
Electrical Power Consumption	30W (Max.)
Communication Unit	Units of Adopting for H-LINK
Communication Line	Non-polar 2-wire
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	8.5-inch Wide Color LCD (Full Dot)
Display Control	Touch Panel

FUNCTIONS

Monitor Function	<ul style="list-style-type: none"><li>• Run/Stop/Abnormality</li><li>• Setting Temperature</li><li>• RCS Operation Prohibited Setting</li><li>• Accumulated Operating Time</li><li>• Operation Mode</li><li>• Setting Fan Speed</li><li>• Setting Louver</li><li>• Filter Sign</li><li>• Alarm Code</li></ul>
Control Function	<ul style="list-style-type: none"><li>• Run/Stop*</li><li>• Fan Speed</li><li>• Operation Mode</li><li>• Louver</li><li>• Temperature Setting</li><li>• RCS Operation Prohibited</li><li>• Filter Sign Reset</li></ul>

\* "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function.

(8.5-inch) Touch Panel Operation

A total of 64 remote controller groups (4 blocks)(64 outdoor units/160 indoor units) can be controlled Easy to check the operation status using either of two monitoring screens (all groups or blocks) The panel for the block is bigger than for the CS MINI; you can check Mode, Fan Speed, Louver, Temperature, Inlet and Ambient Temperature.



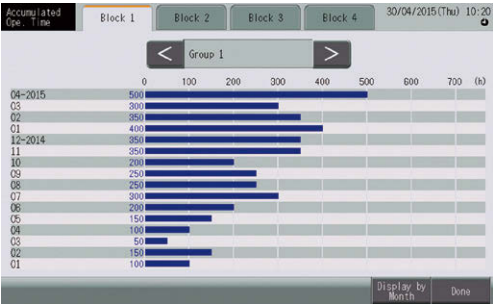
[Monitor 1 (all groups)]



[Monitor 2 (block)]

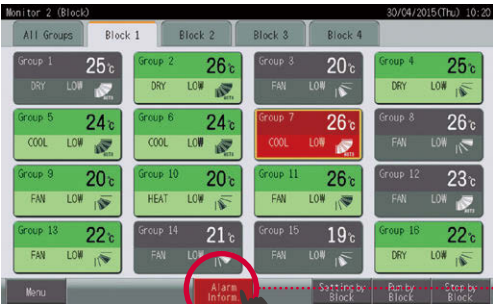
ACCUMULATED OPERATION-TIME VISUALIZATION

Supports Energy-Saving Management



Alarm Information

Red color indication: immediate display of malfunction location and cause.



Schedule

Up to 10 actions/day per RCS groups can be set as available as auto switch-off timer.



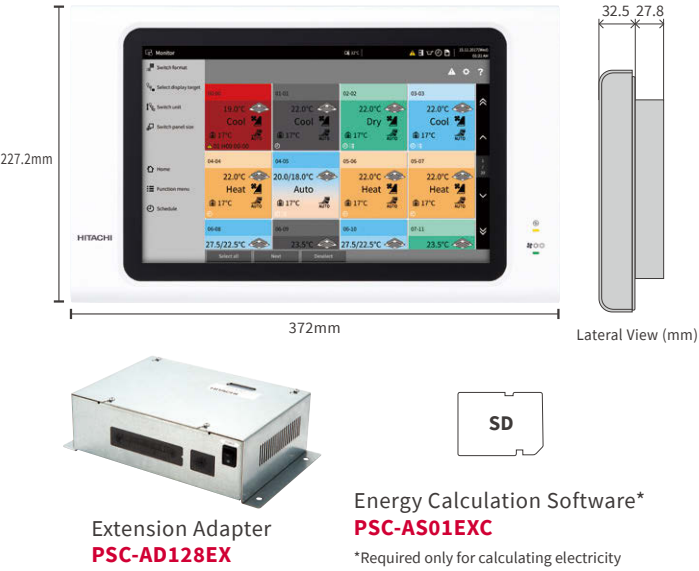
[Weekly Schedule]



[Holiday Setting]



CENTRAL STATION EX FOR LARGE-SCALE BUILDINGS  
PSC-A128EX



CAPACITY	
H-LINK	16
Remote Controller group	2,560 (*1)
Group	2,048 (*1)
Block	512 (*2)
Area	512 (*2)
Indoor unit	2,560 (*1)
Outdoor unit	1,024 (*1)
Building scale	Large

(\*1) One external adapter can control [160 RC groups/128 groups/160 IDUs/64 ODU/Each layout], and Central Station EX can connect up to 15 adapters.  
(\*2) No restriction on the number of H-LINK

SPECIFICATIONS	
Rated power supply	100~240VAC ± 10% (50/60Hz)
Electrical power consumption	50W (Max.)
Communication unit	Units of Adopting for H-LINK
Communication line	Nonpolar Two Wires
Communication speed	9,600bps
Wiring length	1,000m (Total Length)
Display	12.1 inch TFT color liquid crystal display
Display control	Touch Panel

For large scale buildings such as hotels, educational facilities, or hospitals, our Central Station EX features a highly intuitive and functional 12.1-inch wide, wall-mountable, colorful LCD screen. Control up to 2,560 indoor units with our proprietary H-LINK system with 15 Extension Adapters (PSC-AD128EX)

RECOMMENDED FACILITIES



FUNCTIONS

Operation unit	All together Each area Each block Each group Each RCS group On/Off Mode Set temperature Fan speed Louver RC prohibition Filter sign reset Function selection for indoor units (*1) Function selection for outdoor units (*2) Capacity control for outdoor units (*2) Lower noise control for outdoor units (*2)
Control function	On/Off Mode Set temperature Air intake temperature RC sensor temperature (*3) Air intake temperature of outdoor unit Fan Speed Louver RC prohibition Thermo-ON information Filter sign/Auto cleaning fault Alarm status/Alarm codes
Monitor function	Each of the following setting is available in 3 different [annual] [summer][winter] category → Weekly schedule → Up to 16 actions can be set per day → Exception day setting: 5 different types → Holiday setting
Schedule function	Setting items in schedule is as below; • On/Off • Operation mode • Setting temperature • Louver • Fan speed • RC operation prohibition • Capacity control for outdoor units • Lower noise control for outdoor units
History	Alarm history: 10,000 records External In/Output history: 1,000 records Pulse input history: 6 months
Management report visualization	Each of the following data of up to 2 years can be shown: • Accumulated operation time (min.) • Accumulated thermo-ON time (min.) • Average air intake temperature of indoor unit • Average air intake temperature of outdoor unit • Average setting temperature • Average RC sensor temperature

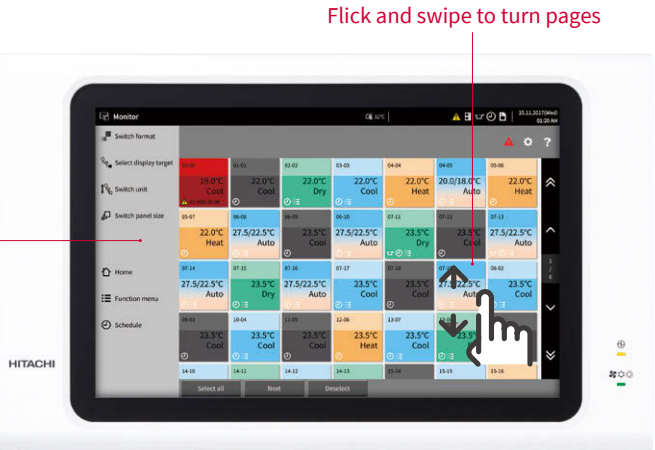
Energy saving	• Run/Stop • RC prohibition • Temperature shift (For Cool/Dry mode: +1.0~+9.0°C (+1.0~+18.0°F)) (For Heat mode: -1.0~-9.0°C (-1.0~-18.0°F)) • Mode shift (Mode shifted to Fan when in Cool/Dry mode, and shifted to Stop in Heat mode) • Capacity control on outdoor units • Lower noise control for outdoor units
Control/Monitor	→ Controlled items: • Run/Stop • Mode (Cool/Heat) → Monitored items: • Run/Stop • Mode (Cool/Heat) • Alarm state
Others	• Power consumption signal input • Emergency stop

(\*1) Some indoor units may not fully support all functions.  
(\*2) It is available for applicable outdoor units only.  
(\*3) There is a case that it cannot be shown in the screen, depending on the remote controller setting.

EASY TO READ, EASY TO USE

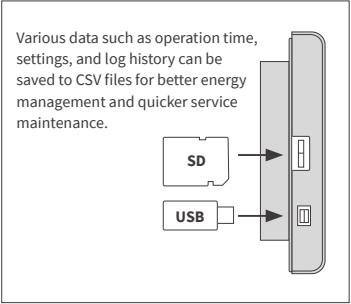
The stand-alone Central Station EX uses a touch screen, capacitive LCD panel.

Better display resolution (1,280×800)  
Larger screen (12.1 inches wide)



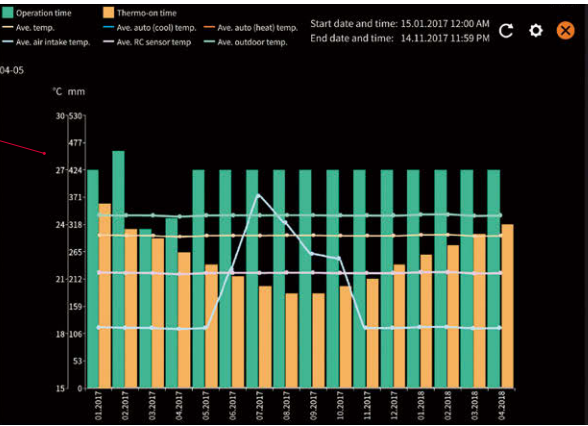
BETTER ENERGY SAVING AND QUICKER MANAGEMENT

Management reports can be visualized in various ways, and data can be acquired using SD memory and USB flash devices.



The following data can be displayed up to the previous two years:

- Accumulated operation time (min.)
- Accumulated thermo-ON time (min.)
- Average air intake temperature of indoor unit
- Average air intake temperature of outdoor unit
- Average setting temperature
- Average RC sensor temperature (It may not be available depending on RC settings.)



IMPROVED SCHEDULE SETTING

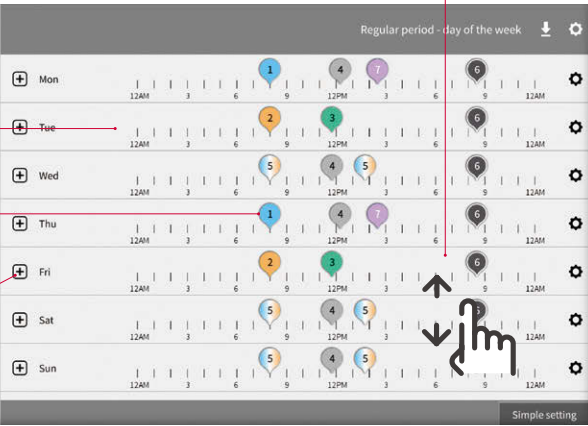
Three long-term category settings are now available: Annual, Summer, and Winter.

Drag to change the schedule  
Flick and swipe to see a different screen

Touch and hold the memory axis to add the memory to the schedule

Schedules can be color coded for easy confirmation

Touch the + button to see the detailed schedule



CENTRAL STATION EX FOR LARGE-SCALE BUILDINGS  
PSC-A128EX

INTUITIVE INTERFACE FOR BETTER MONITORING

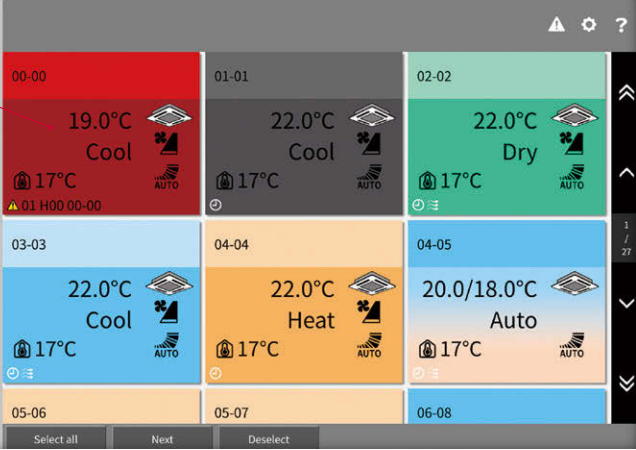
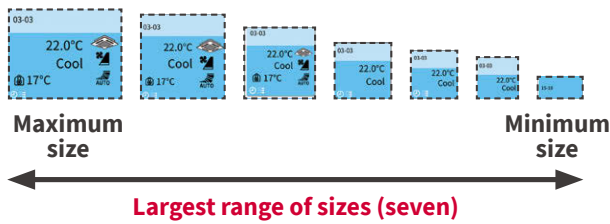
Three monitoring styles are available.

1. Panel style

The panel color clearly shows the air conditioner operation mode.

One maximum-sized panel can show the following items with colors and icons for easy confirmation:

- Room name
- Run/stop
- Mode
- Temperature
- Fan speed
- Louver
- Air intake temperature (RC sensor temperature or indoor temperature)
- Current status icon

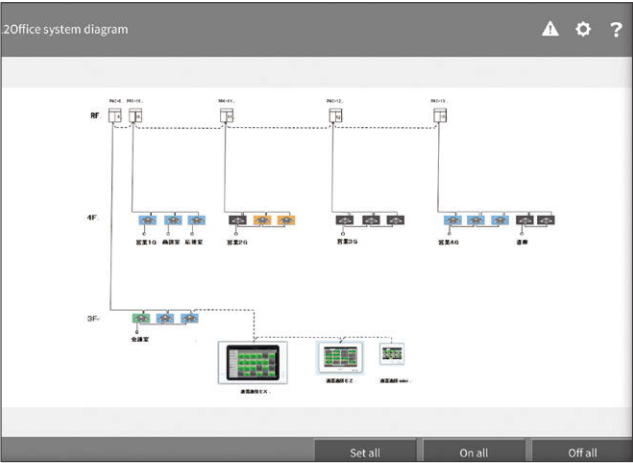


2. Layout style

Upload your own layout images in multiple formats (BMP, JPEG, PNG) and easily arrange indoor units by dragging them on the touch panel.



Floor view



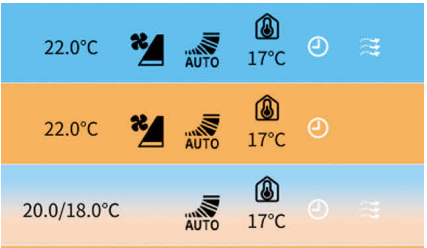
System diagram



Actual room image

3. List style

Setting/control information is shown in a list that can be filtered and sorted for easy confirmation and comparison. In the list display, normal temperature and power consumption are provided so users can select formats according to their desired items.



Normal mode



Temperature mode



Power consumption mode

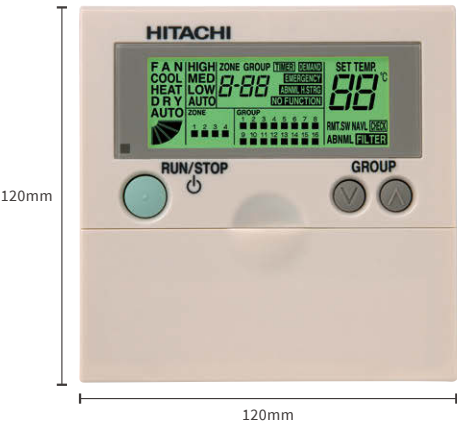




CENTRAL STATION

FOR SMALL-MEDIUM-SCALE BUILDINGS

PSC-A64S



If your site has a dedicated building manager, the Central Station PSC-A64S is suitable for providing convenient monitoring of indoor climates. It controls up to 160 indoor units and up to 8 sub-controllers can be connected via H-LINK. In addition to setting the operation mode and temperature, PSC-A64S also gives you advanced control over air quality and louver orientation. Should a problem occur, a dedicated alarm code helps you identify the issue.

SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 120.0×120.0×70.5

CAPACITY

RC group	64
Group	64
Block	4 Patterns
Indoor Unit	160
Outdoor Unit	64

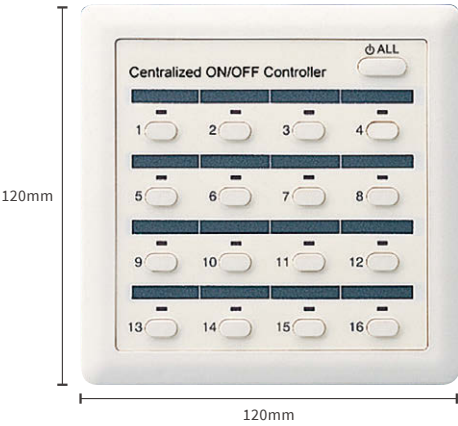
FUNCTIONS

Monitor Function	<div>• Run/Stop/Abnormality • Setting Temperature</div> <div>• RCS Operation Prohibited Setting</div> <div>• Accumulated Operating Time</div> <div>• Operation Mode • Setting Fan Speed</div> <div>• Setting Louver • Filter Sign • Alarm Code</div>
Control Function	<div>• Run/Stop* • Fan Speed</div> <div>• Operation Mode • Louver</div> <div>• Temperature Setting</div> <div>• RCS Operation Prohibited</div> <div>• Filter Sign Reset</div>

\* "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function.

CENTRALIZED ON / OFF CONTROLLER

PSC-A16RS



SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 120.0×120.0×68.5

CAPACITY

RCS group	16
Group	64
Block	-
Indoor Unit	160
Outdoor Unit	-

FUNCTIONS

Monitor Function	<div>• Run/Stop</div> <div>• Alarm Notification</div>
Control Function	<div>• Individual Run/Stop</div> <div>• Simultaneous All Run/Stop</div>

- Only performs operation/stop control per remote control group.
- By connecting to the H-LINK, up to 16 remote control groups and 160 indoor units can be controlled. Up to 8 controllers can be connected to the H-LINK.
- An external input terminal is provided as standard. External signals enable the following functions: central operation/stop, emergency stop, central operation output, central alarm output.
- Can be used in combination with the central station.
- \*Be sure to use it with a remote control switch. Indoor units cannot be used without a remote control switch.
- \*There are restrictions on remote group registration. Please contact our sales staff for more information.

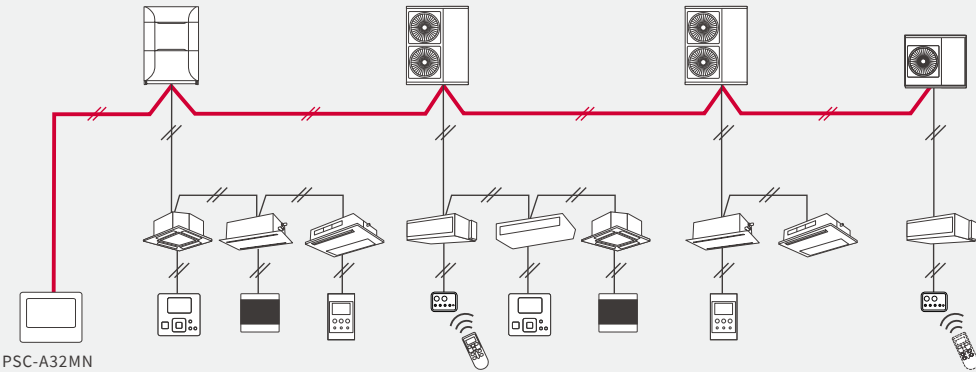


# H-LINK

## WHAT IS H-LINK?

H-LINK is a "Hitachi" original communication system that can be used to control multiple outdoor and indoor units from one control point. Its use assists installers and service engineers by simplifying commissioning and service maintenance. For building owners and occupants, it provides outstanding versatility enabling the connection of various types of central control options, enabling better system management. Our proprietary high-performance communication system enables the connection of control wiring between indoor and outdoor units, and between a centralized control system and indoor/outdoor units across two or more refrigerant systems.

### Basic Wiring



## ADVANTAGES

1. A multi air conditioner for a building and a package air conditioner for a store or office. It can be used with a home air conditioner.
2. There are no restrictions on the delivery route or order for wiring.
3. Just connect to a terminal block.  
(An adapter and a dedicated connector are not necessary.)

## RECOMMENDED FACILITY (EXAMPLE)



Educational institutions such as primary schools where installation work cannot be performed on weekdays.



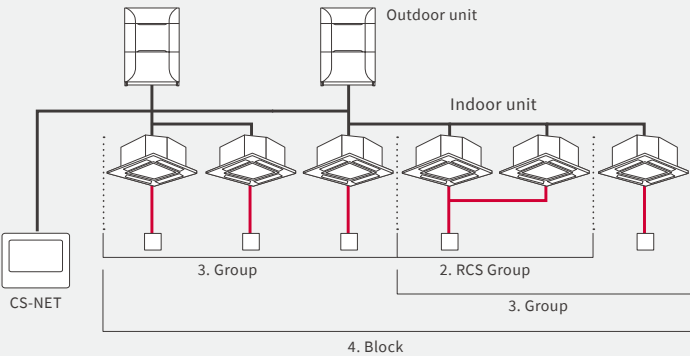
Hotels where it is preferable to complete installation work during late evenings.



Rehabilitation facilities or hospitals where it is necessary to minimize the burden on users.

## DEFINITION OF TERMS IN HITACHI CENTRALIZED CONTROL SYSTEMS

1. CS-Net/Central Station  
→Hitachi original central controller
2. RCS Group (Remote Controller System Group)  
→Stands for a number of indoor units (up to 16 units) connected using "same remote controller" wiring. In this group, connected indoor units are all controlled in the same way.
3. Group  
→Stands for the multiple "RCS groups" that are registered in the central controller network setting.
4. Block  
→Stands for the multiple "groups" that are registered in the central controller network setting.

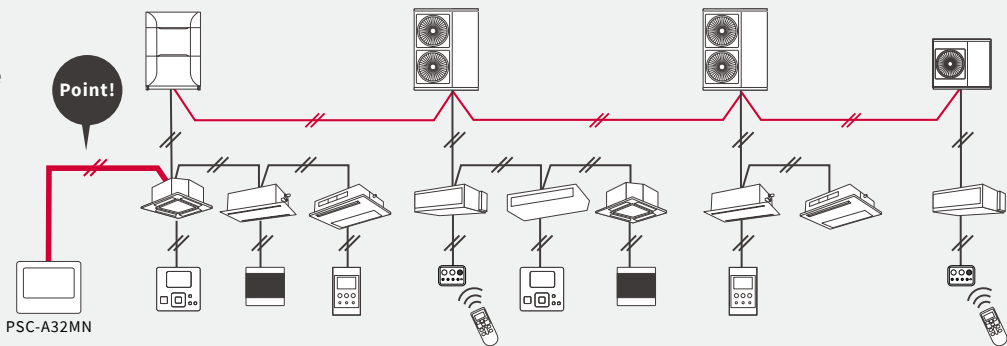


# POINT

## Flexible Wiring Routes

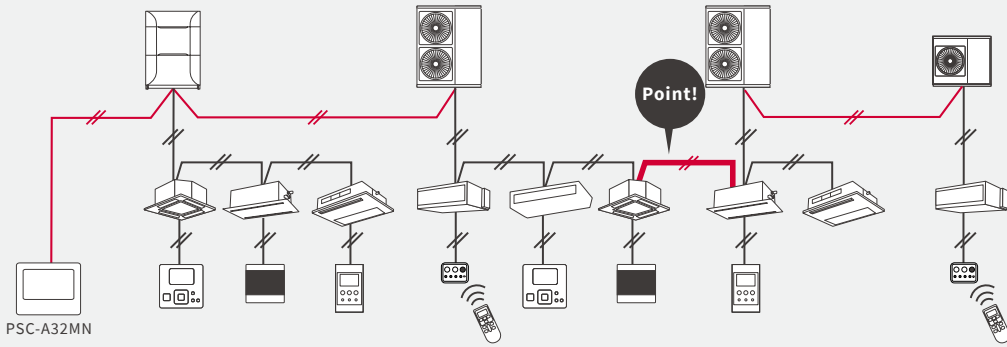
- (1) If indoor units are located in one place and the indoor unit to be controlled is in the room where "Centralized Controller" is installed

→ Overall control is possible by connecting "Centralized Controller" to the indoor unit.  
→ Delivery distance can be greatly reduced.



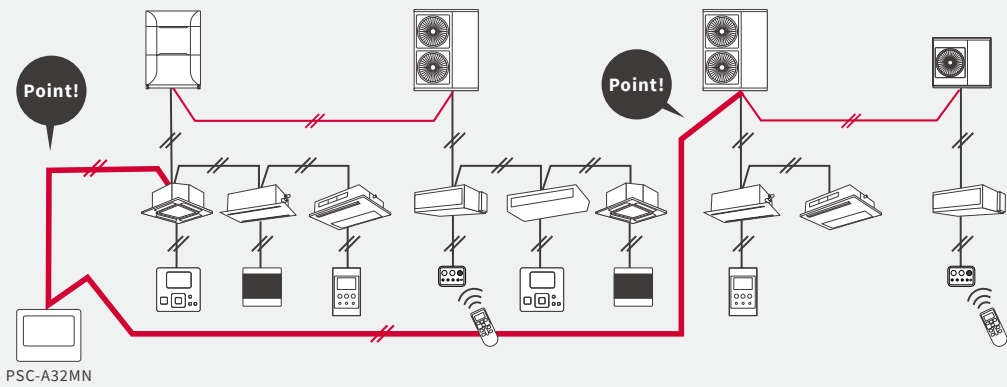
- (2) If indoor units are located in two places and any indoor units of each system are located close together

→ Overall control is possible by connecting part of the indoor units of each system.  
→ Delivery distance can be greatly reduced.



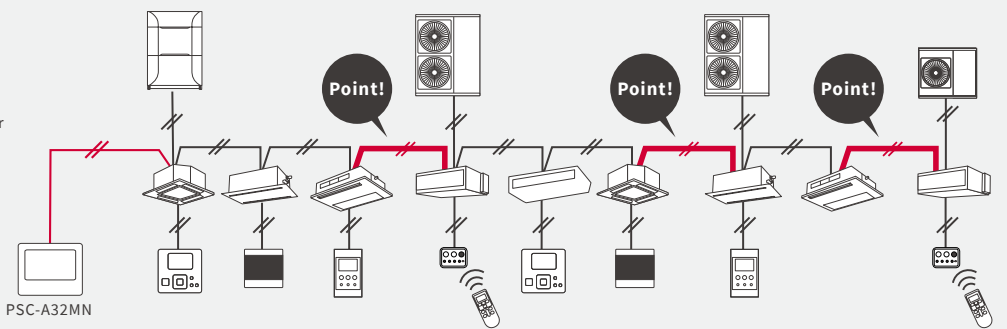
- (3) If two systems are completely separated

→ Overall control is possible by separately connecting the two systems to "Centralized Controller."  
→ It is possible to select a wiring route based on the wiring distance and the ease of installation.



- (4) If indoor units are located discretely

→ Overall control is possible by connecting indoor units.  
→ Installation is possible through indoor wiring only without outdoor wiring.





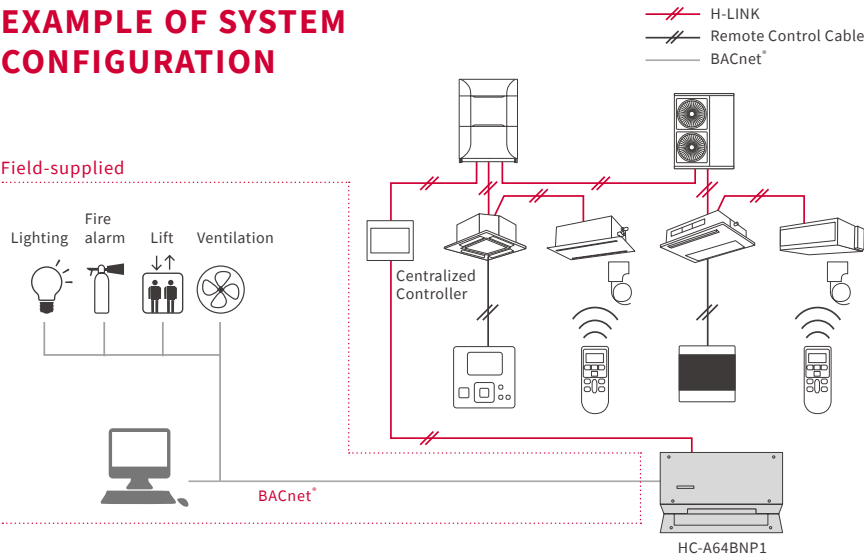
# BMS ADAPTER for BACnet®

HC-A64BNP1

Control up to 64 Indoor Units



EXAMPLE OF SYSTEM CONFIGURATION



SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 68.0×240.0×154.0

FUNCTIONS

Corresponding BACnet® Standard	ANSI/ASHRAE Standard 135-2004 BACnet®
Control Item at Upper System	<ul style="list-style-type: none"><li>• Run Stop (Setting)</li><li>• Operation Mode (Setting)</li><li>• Fan Speed Level (Setting)</li><li>• Indoor Temperature (Setting)</li><li>• Prohibiting RC Operation (Setting)</li><li>• Filter Sign Reset</li></ul>
Monitoring Item at Upper System	<ul style="list-style-type: none"><li>• Run Stop (State)</li><li>• Operation Mode (State)</li><li>• Fan Speed Level (State)</li><li>• Indoor Temperature (State)</li><li>• Prohibiting RC Operation (State)</li><li>• Filter Sign</li><li>• Indoor Air Intake Temperature</li><li>• Alarm Signal</li><li>• Alarm Code</li><li>• Communication State</li></ul>

# 7 DAY TIMER

PSC-A1T

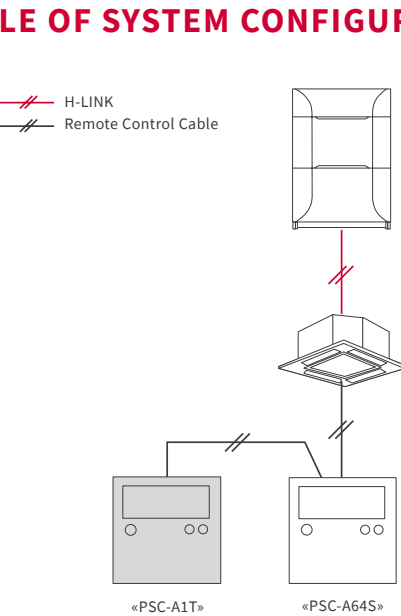
Scheduling Operation with PSC-A64S/PSC-A16RS



SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 120.0×120.0×17.0

EXAMPLE OF SYSTEM CONFIGURATION



- By using PSC-A1T with PSC-A64S or PSC-A16RS controllers, the air conditioners controlled by them can be operated according to a schedule.
- The timer can be set at 7-day intervals, and operation/stop can be set 3 times daily.
- Remote control can be prohibited in accordance with the OFF time (when used with PSC-A64S and PSC-A16RS).
- Two types of weekly schedule (A and B) can be set, and can easily be changed for summer and winter.
- The settings are all digitally displayed, allowing operations and settings to be checked easily.
- The power failure backup function prevents the timer from being stopped due to a power failure lasting up to 2 weeks.

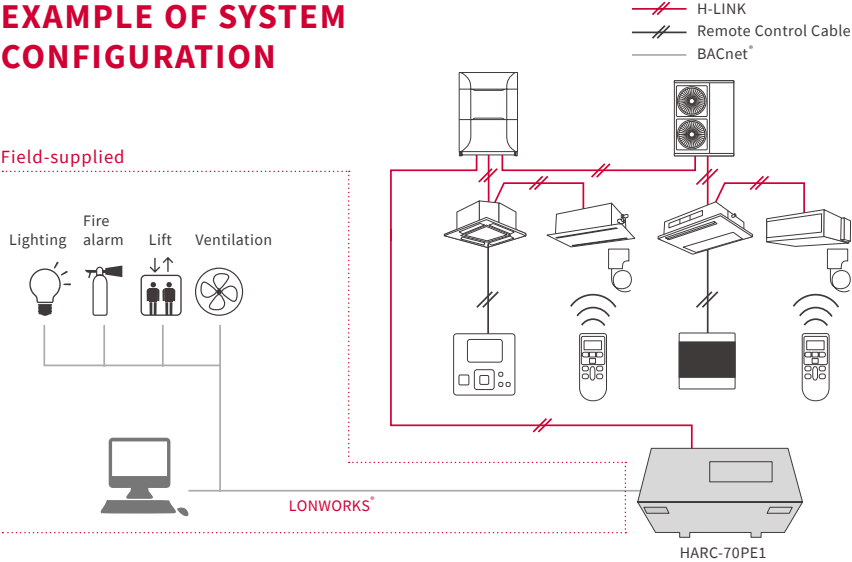
# BMS ADAPTER for LONWORKS®

HARC70-PE1

Bigger Connection Capacity (Up to 128 Indoor Units)



EXAMPLE OF SYSTEM CONFIGURATION



SPECIFICATIONS

Outer Dimensions (H×W×D)  
(mm) 80.0×170.0×75.0

FUNCTIONS

Connection Method to Upper System	Connection by SNVT (Standard Network Variable Type) to LONWORKS® Network
Quantity of Connection	8 Remote Control Groups (Max. 128 indoor Units)
Control Item in Upper System (ng: 0~7)	<ul style="list-style-type: none"><li>• On/Off Order (nviOnOff_ng)</li><li>• Operation Mode Setting (nviMode_ng)</li><li>• Temperature Setting (nviSetPoint_ng)</li><li>• All On/Off Order (nvi All OnOff)</li></ul>
Monitoring Item in Upper System (ng: 0~7)	<ul style="list-style-type: none"><li>• On/Off State &amp; Alarm (nvoOnOff_ng)</li><li>• Operation Mode State (nvoMode_ng)</li><li>• Temperature Setting (nvoSetPoint_ng)</li><li>• Individual Thermostat State (nvoThermo_ng)</li></ul>

· The number of maximum connectable refrigerant systems is 8 (0 to 7). The available setting range of refrigerant system number and indoor unit addresses is 0 to 15.

OUR HERITAGE

