

Heat Pump type
-HNCQ series-

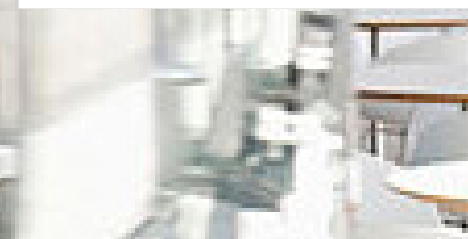
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Hitachi New Commercial VRF SET FREE Σ

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HITACHI

Cooling & Heating



Hitachi New Commercial VRF SET FREE Σ HNCQ series

Improved performance
in more sizes increases
design flexibility

INDEX

03 Outdoor Units

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00 Controllers





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Outdoor Units

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LINE-UP OVERVIEW

LINE-UP OVERVIEW

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 / Weight)



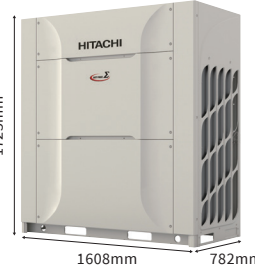
1725mm
958mm 782mm

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



1725mm
1218mm 782mm

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



1725mm
1608mm 782mm

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



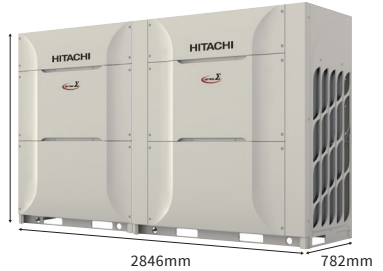
1725mm
2196mm 782mm

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



1725mm
2456mm 782mm

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



1725mm
2846mm 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



1725mm
3236mm 782mm

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



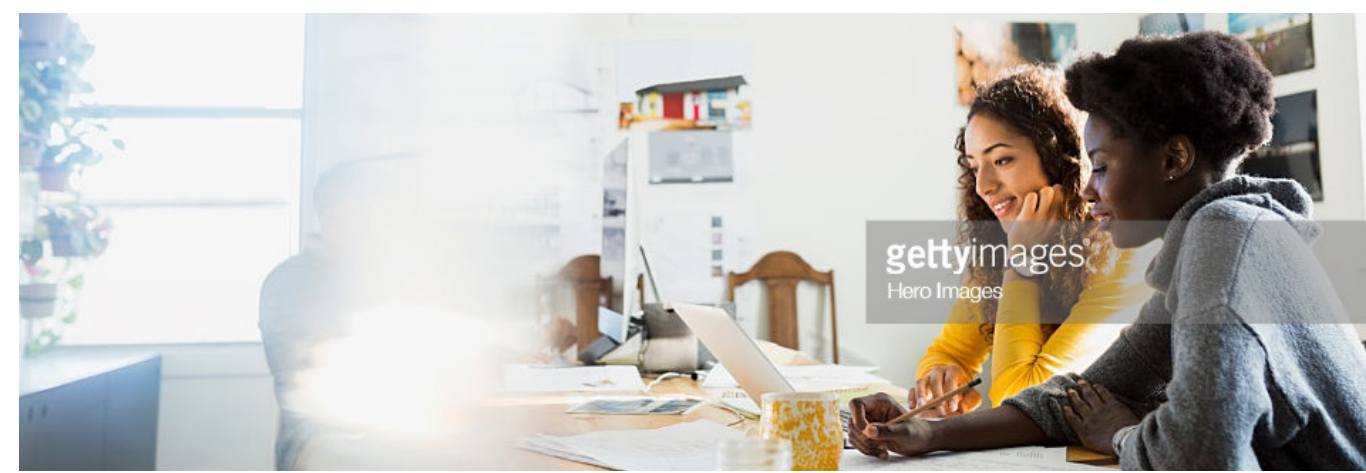
1725mm
3694mm 782mm

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



1725mm
4084mm 782mm

52HP Class / 146.0kW / 163.0kW / 1010kg
54HP Class / 151.5kW / 169.0kW / 1035kg
56HP Class / 158.0kW / 175.0kW / 1036kg
58HP Class / 163.0kW / 181.0kW / 1082kg





1725mm
4474mm 782mm

60HP Class / 169.0kW / 188.0kW / 1116kg
62HP Class / 174.5kW / 194.0kW / 1141kg
64HP Class / 181.0kW / 200.0kW / 1142kg
66HP Class / 186.0kW / 206.0kW / 1188kg



1725mm
4864mm 782mm

68HP Class / 192.0kW / 213.0kW / 1222kg
70HP Class / 197.5kW / 219.0kW / 1247kg
72HP Class / 204.0kW / 225.0kW / 1248kg



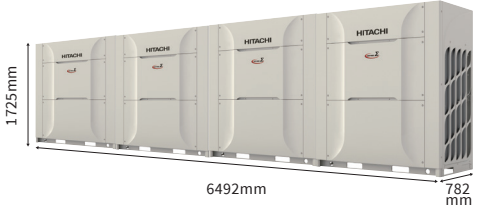
1725mm
5322mm 782mm

74HP Class / 208.0kW / 231.0kW / 1392kg



1725mm
5712mm 782mm

76HP Class / 214.0kW / 214.0kW / 1426kg
78HP Class / 219.5kW / 244.0kW / 1451kg



1725mm
6492mm 782mm

80HP Class / 224.0kW / 252.0kW / 1560kg
82HP Class / 229.5kW / 258.0kW / 1585kg
84HP Class / 236.0kW / 264.0kW / 1586kg
86HP Class / 241.5kW / 270.0kW / 1611kg
88HP Class / 248.0kW / 276.0kW / 1612kg



90HP Class / 253.5kW / 282.0kW / 1637kg
92HP Class / 260.0kW / 288.0kW / 1638kg
94HP Class / 265.5kW / 294.0kW / 1663kg
96HP Class / 272.0kW / 300.0kW / 1664kg

SUMMARY TABLE

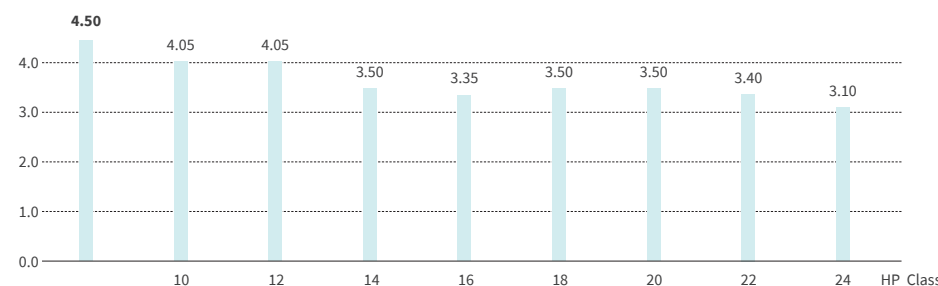
Item	Unit		HNCQ Series
Capacity	HP class		8-96
	Nominal Cooling	kW	22.4 - 272.0
	Nominal Heating	kW	25.0 - 300.0
Maximum connectable indoor unit quantity			13 - 64
Combination capacity ratio between ODU and IDU			50 - 130
Maximum piping length	Total piping length		(m)
			1000
	Refrigerant piping length		(m)
	Actual		165
	Equivalent		190
	Between piping connection kit and each outdoor unit		(m)
			90
Maximum height difference	Between 1st branch multi kit and farthest indoor unit		(m)
			40
	Between multi kit and each indoor unit		(m)
			10
	Between outdoor units (combination of base units)		(m)
			0.1
	ODU above IDU		(m)
Cooling operation range *	Between outdoor unit and indoor units		(m)
			110
	IDU above ODU		(m)
Heating operation range *			(m)
	Between indoor units		30
Cooling operation range *	°C DB		-5 to 52
Heating operation range *	°C DB		-20 to 24

* For more details, please consult your distributors or dealer, or, refer to technical manuals.

HIGH EFFICIENCY

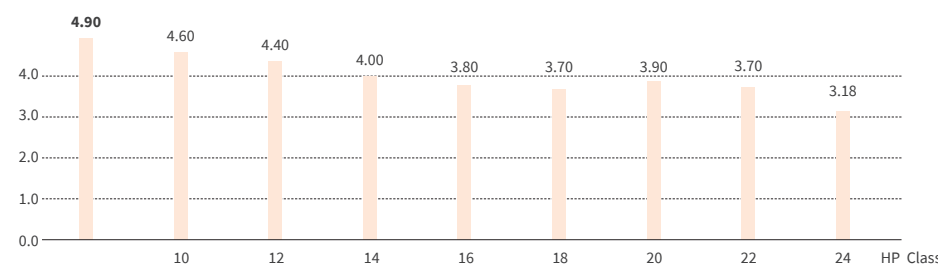
EFFICIENCY RATIO

EER: Energy Efficiency Ratio



EER up to 4.50

COP: Coefficient Of Performance



COP up to 4.90

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°C DB 19°C WB
 Outdoor Air Inlet Temperature: 35°C DB
 Piping Length: 7.5 Meters
Heating Operation Conditions:
 Indoor Air Inlet Temperature: 20°C DB
 Outdoor Air Inlet Temperature: 7°C DB 6°C WB
 Piping Lift: 0 Meter

2. Please see the technical catalogues for more details.

WHAT'S IMPROVED?

1) COMPRESSOR 2) HEAT EXCHANGER 3) AIR-OUTLET

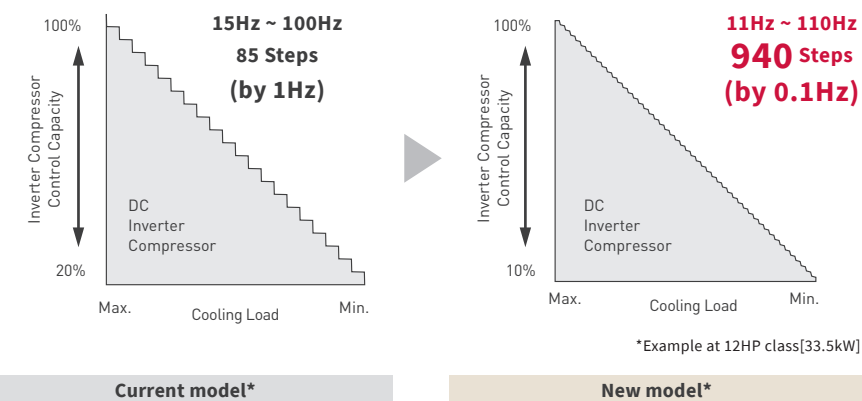


3 POINTS IMPROVEMENT

1) COMPRESSOR

Greater capacity control

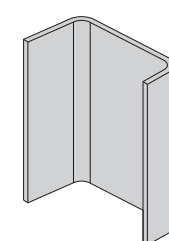
The highly improved performance as well as greater energy saving is achieved by adopting newly developed high efficiency DC inverter compressor, with outstandingly precise control technology of 0.1Hz increments inverter frequency. Another feature is the dramatically extended working range, enabled by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



2) HEAT EXCHANGER

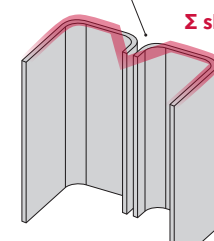
- The heat exchange area has been increased by more than **10%** (single module)
- Greater heat exchange efficiency

New shape

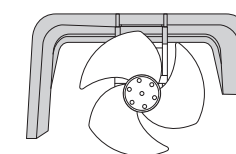


Current model (single module)

Split left-right heat exchanger

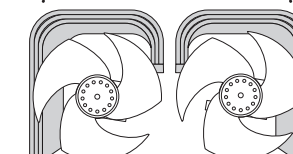


New single medium & Large cabinet



Current model (single module)

Improved angle of the curve

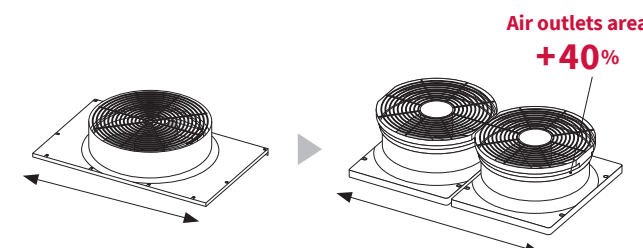


New single medium & Large cabinet

3) AIR-OUTLET

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

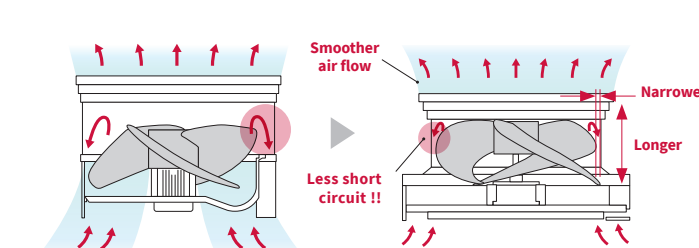
Expansion of air outlet



Current model

New model

Improvement in air outlet



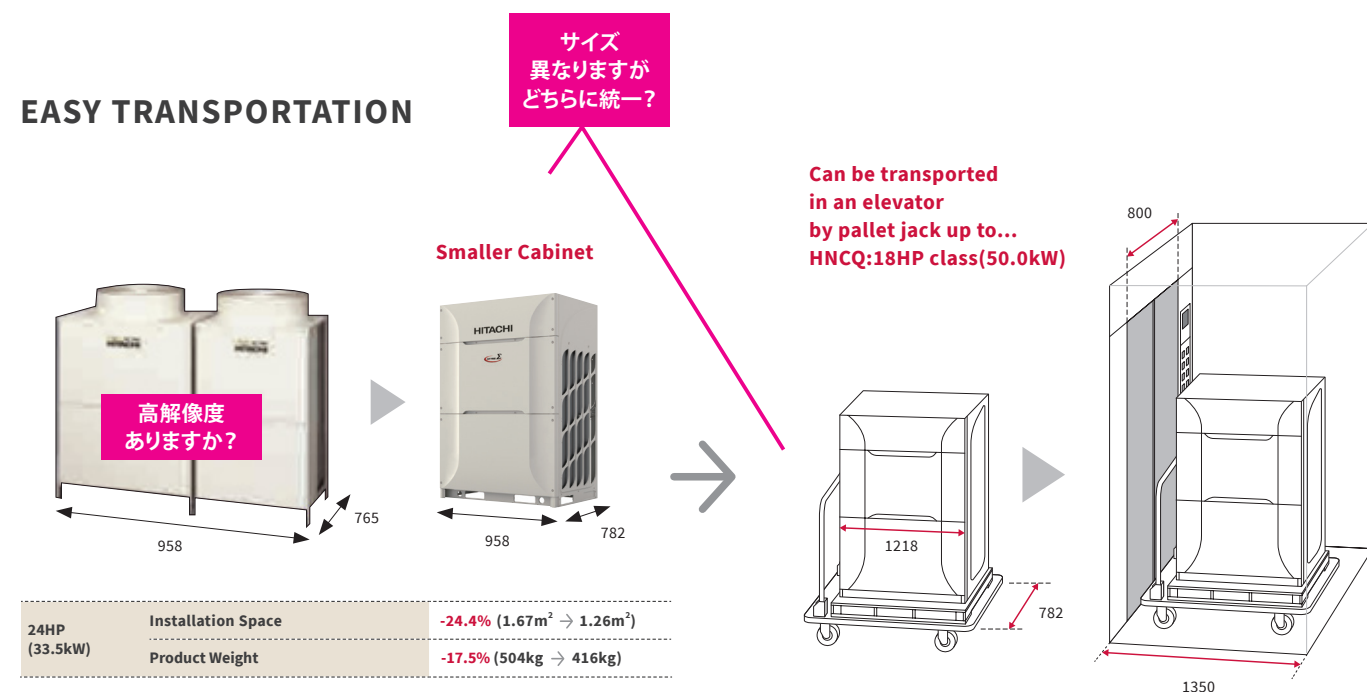
Current model

New model

DESIGN FLEXIBILITY

DESIGN FLEXIBILITY

EASY TRANSPORTATION

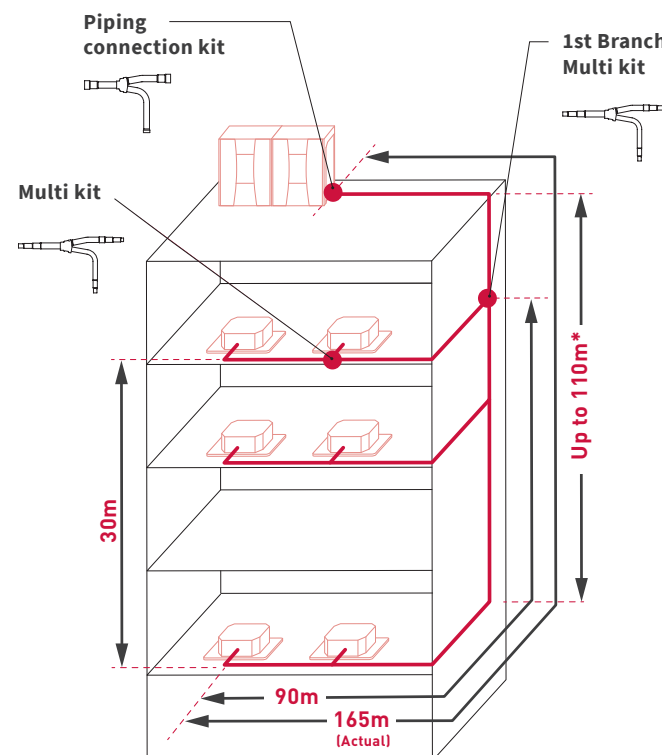


PIPING CONNECTION WORKABILITY

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

Maximum piping length	Total piping length		1000m
	Regrigerant piping length	Actual	165m
		Equivalent	190m
	Between "Piping connection kit" and each ODU		90m
	Between "1st branch Multi Kit" and farthest IDU		40 (*1)m
	Between "Multi Kit" and each IDU		10m
Maximum level difference	Between ODU (combination of base units)		0.1m
	Between ODU and iDU	ODU above IDU	110m (*2)
		IDU above ODU	40m
	Between indoor units		30m

Each maximum length or height difference has several conditions, please refer to the technical documents in inquiry.
 (*1) 30m at maximum, in case the number of connected indoor unit is over the recommendation
 (*2) Custom Order: up to 110m / Standard: up to 50m

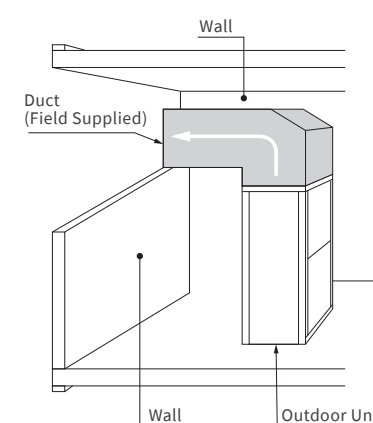


IMPROVED EXTERNAL STATIC PRESSURE

High static pressure for outdoor units: can handle up to 80Pa

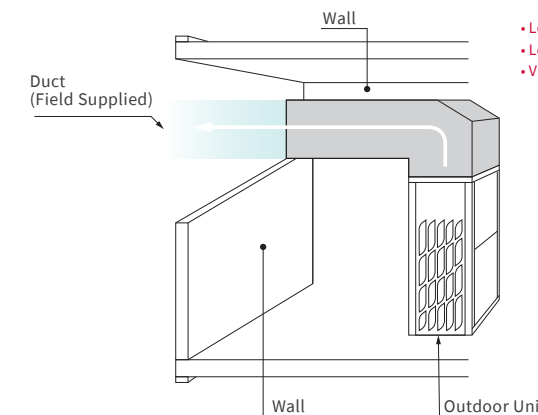
Current Model

0Pa 60Pa



New Model

0Pa 30Pa 60Pa 80Pa

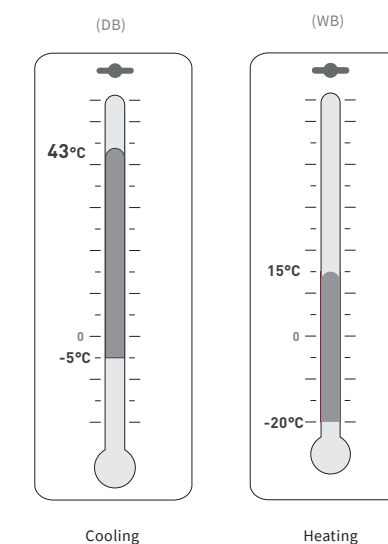


offers more options for
the indoor installation
of the outdoor unit

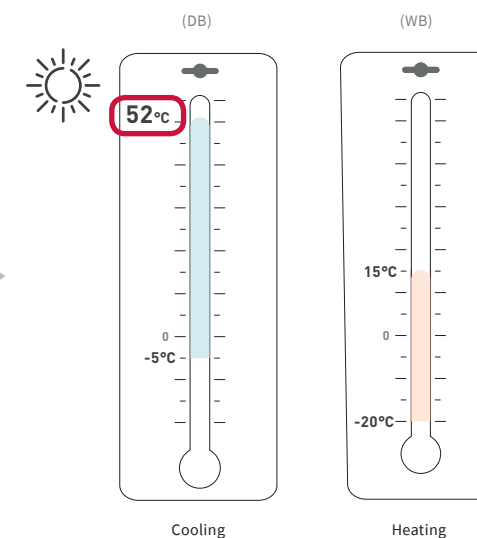
- Less piping length
- Lower installation cost
- Visual aesthetics

OPERATION TEMPERATURE RANGE

Current Model



New Model



*48~52°C interval operation

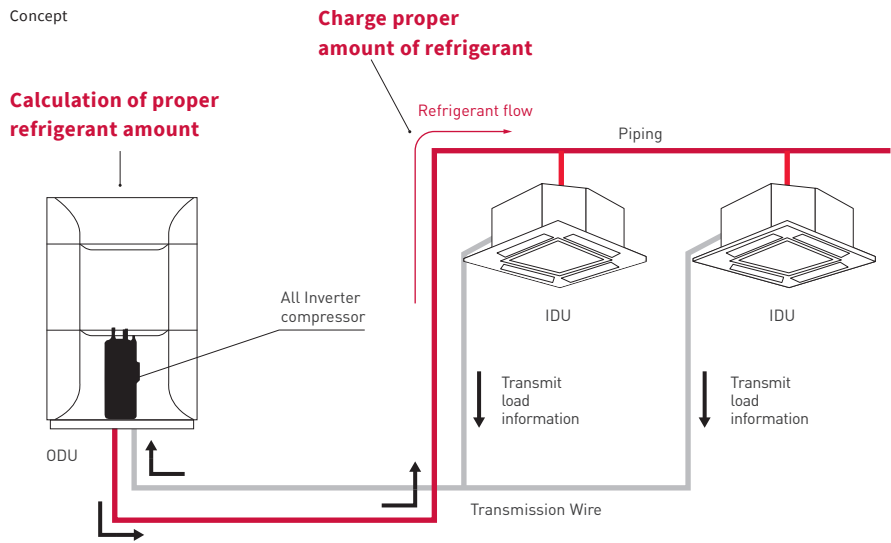
ADAPTABILITY

ADAPTABILITY

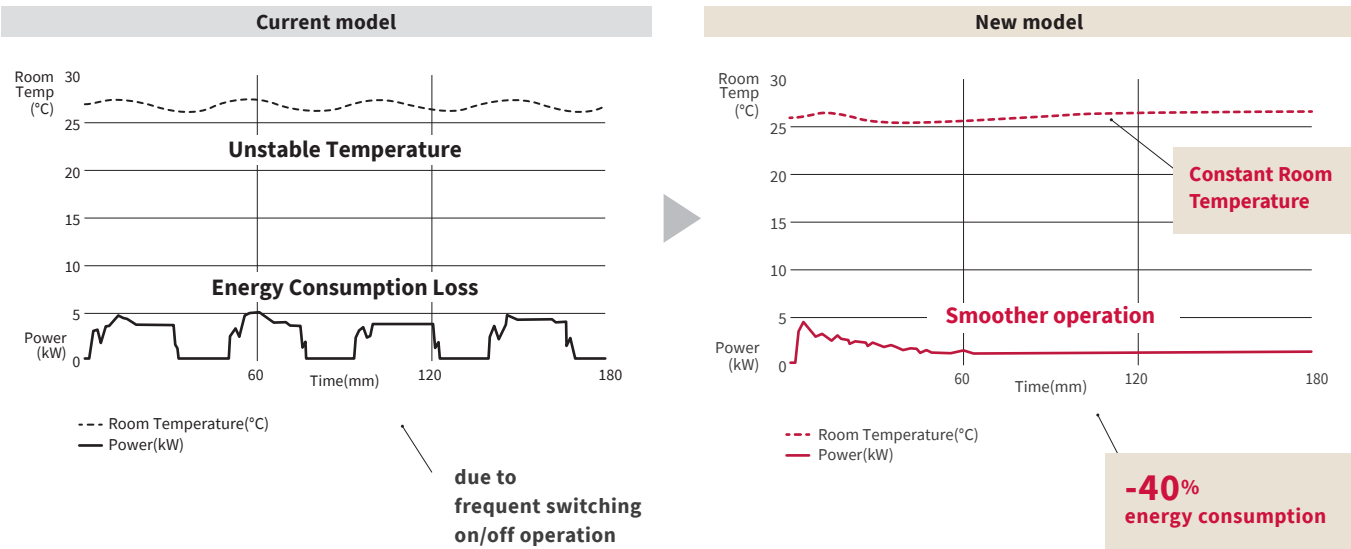
IMPROVED COMPRESSOR CONTROL

Smooth drive

The model calculates the appropriate amount of coolant 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 coolant 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.

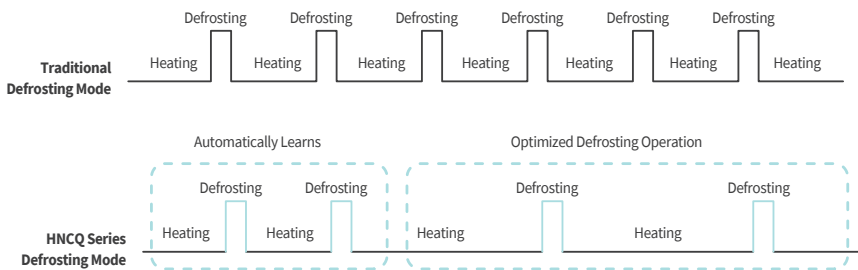


Actual example of the new compressor control



SMART DEFROSTING

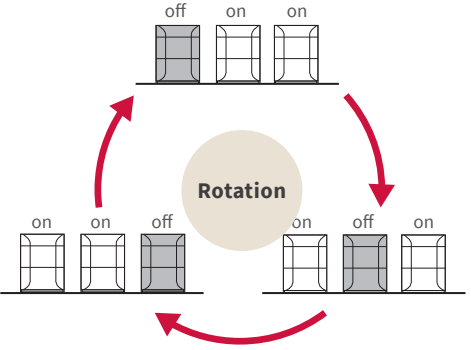
Frost on the outdoor heat exchanger reduces heating capability. Defrosting is, therefore, essential, although there is no heating in a defrosting operation. Intelligent defrosting technology automatically learns the operating data of the previous defrosting cycle and detects power data of the fan motor. From these data it determines the optimal operation of the next defrosting cycle, thereby helping to reduce the frequency of defrosting while enhancing the comfort level and heating capacity.



TO PREVENT FAILURE AND EMERGENCY OPERATION IN CASE OF FAILURE

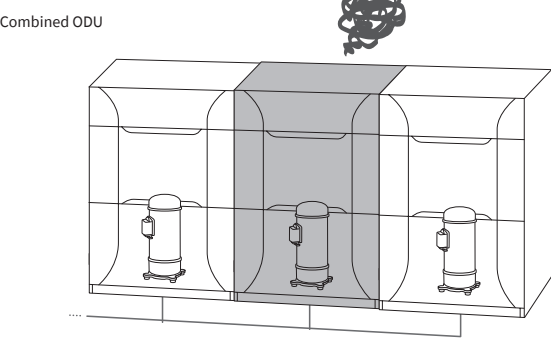
To prevent failure

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.



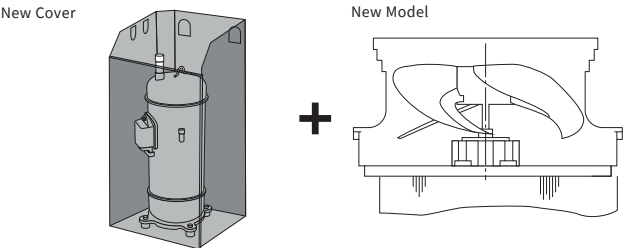
Back up function

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.

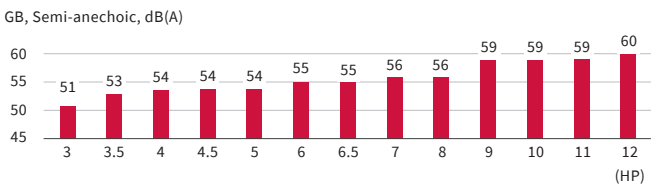
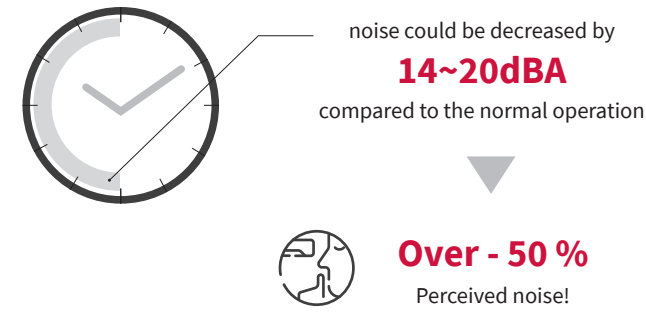


NOISE PRESSURE (STANDARD OPERATION)

Thanks to below 2 design changes



Night Silent Mode (optional)



SPECIFICATIONS

SPECIFICATIONS



HP class				8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP
Model Name				RAS-8.0HNBCM Q	RAS-10HNBCM Q	RAS-12HNBCM Q	RAS-14HNBCM Q	RAS-16HNBCM Q	RAS-18HNBCM Q	RAS-20HNBCM Q	RAS-22HNBCM Q	RAS-24HNBCM Q
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		1725×2196×782	1725×2196×782	1725×2456×782	1725×2456×782	1725×2456×782	1725×2846×782	1725×2846×782	1725×2846×782	1725×2846×782
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
Ref.	Type	—		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg		Hi	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	(φ)mm		9.52	9.52	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Gas	(φ)mm		19.05	22.20	25.40	25.40	28.58	28.58	28.58	28.58	28.58
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°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB		
	Heating	-		Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB		
Refrigerant control modeelectronic 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)		1000	1000	1000	1000	1000	1000	1000	1000	1000
	Regrigerant piping length	Actual	(m)	165	165	165	165	165	165	165	165	165
		Equivalent	(m)	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit		(m)	90	90	90	90	90	90	90	90	90
	Between "1st branch Multi Kit" and farthest indoor unit		(m)	40	40	40	40	40	40	40	40	40
	Between "Multi Kit" and each indoor unit		(m)	10	10	10	10	10	10	10	10	10
Maximum level difference	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
	Between outdoor unit and indoor units	ODU above IDU	(m)	110	110	110	110	110	110	110	110	110
		IDU above ODU	(m)	40	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°C DB 19°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters
Heating Operation Conditions:
Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB 6°C WB
Piping Lift: 0 Meter

2. The sound pressure is based on the following conditions.
1 Meter from the unit service cover surface, and 1.36 Meters from floor level.
The above data is based on the cooling mode. In case of heating mode, the sound pressure level increasesby approximately 1~2 dB. The above data was measured in an semianechoic chamber so that reflected sound should be taken into consideration in the field.

SPECIFICATIONS



HP class			26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP	42HP
Combination of single module unit			10+16	12+16	14+16	16+16	16+18	16+20	16+22	16+24	18+24
Model Name			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
Dimension		H×W×D	mm	1725×2196×782	1725×2196×782	1725×2456×782	1725×2456×782	1725×2456×782	1725×2846×782	1725×2846×782	1725×2846×782
Weight		Net	kg	226+310	248+310	308+310	310+310	310+356	310+390	310+415	356+416
Footprint Area			m2	0.75 + 0.95	0.75+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+2.67	2.03+2.67	2.03+2.67	2.03+2.67
Compressor type			—	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Ref.	Type		—	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	23.3
Refrigerant Oil	Model		—	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	16.30
Number of Fan Motors			—	3	3	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%
Noise	Anechoic	dB(A)		63	63	64	64	65	65	65	65
	Semi-anechoic	dB(A)		66	66	67	67	68	68	68	68
Piping	Liquid	(φ)mm		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas	(φ)mm		31.75	31.75	31.75	31.75	38.10	38.10	38.10	38.10
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	43.5+61.5
	Breaker	A		32+50	32+50	40+50	50+50	50+50	50+63	50+63	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
	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	25.5+39.3
Efficiency	EER	W/W		3.59	3.62	3.42	3.35	3.35	3.43	3.38	3.19
	COP	W/W		4.07	4.04	3.89	3.80	3.75	3.86	3.74	3.40
The max IDU connect qty.			-	43	47	50	53	56	59	64	64
Working temp. range	Cooling	-		Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB	
	Heating	-		Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB	
Refrigerant control modeelectronic 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)	1000	1000	1000	1000	1000	1000	1000	1000
	Regrigerant 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)	90	90	90	90	90	90	90	90
	Between "1st branch Multi Kit" and farthest indoor unit		(m)	40	40	40	40	40	40	40	40
	Between "Multi Kit" and each indoor unit		(m)	10	10	10	10	10	10	10	10
Maximum level difference	Between outdoor units (combination of base units)		(m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units	ODU above IDU	(m)	110	110	110	110	110	110	110	110
		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°C DB 19°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters
Heating Operation Conditions:
Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB 6°C WB
Piping Lift: 0 Meter

2. The sound pressure is based on the following conditions.
1 Meter from the unit service cover surface, and 1.36 Meters from floor level.
The above data is based on the cooling mode. In case of heating mode, the sound pressure level increasesby approximately 1~2 dB. The above data was measured in an semianechoic chamber so that reflected sound should be taken into consideration in the field.

SPECIFICATIONS



HP class			44HP	46HP	48HP	50HP	52HP	54HP	56HP	58HP	60HP
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 Name			RAS-44HNBCMQ	RAS-46HNBCMQ	RAS-48HNBCMQ	RAS-50HNBCMQ	RAS-52HNBCMQ	RAS-54HNBCMQ	RAS-56HNBCMQ	RAS-58HNBCMQ	RAS-60HNBCMQ
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	124.0	129.5	136.0	140.0	146.0	151.5	158.0	163.0	169.0
	Heating	kW	138.0	144.0	150.0	156.0	163.0	169.0	175.0	181.0	188.0
Power Input	Cooling	kW	37.94	40.03	43.88	41.79	42.86	44.95	48.80	50.30	51.37
	Heating	kW	39.73	42.23	47.16	41.46	42.47	44.97	49.90	51.88	52.89
Air Flow Rate		Standard	m3/min	677	696	768	841	841	860	860	933
Dimension		H×W×D	mm	1725×3236×782	1725×3236×782	1725×3694×782	1725×4084×782	1725×4084×782	1725×4084×782	1725×4084×782	1725×4474×782
Weight		Net	kg	390+416	415+416	416+416	310+310+356	310+310+390	310+310+416	310+356+416	310+390+416
Footprint Area			m2	1.26+1.26	1.26+1.26	1.26+1.26	0.95*3	0.95+0.95+1.26	0.95+0.95+1.26	0.95+0.95+1.26	0.95+1.26+1.26
Packaging Volume			m3	2.67+2.67	2.67+2.67	2.67+2.67	2.03+2.03+2.03	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.67+2.67
Compressor type			—	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Ref.	Type		—	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	23.9	23.9	25.2	30.5	31.1	31.1	32.4	33.2	33.8
Refrigerant Oil	Model		—	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	16.80	16.80	16.80	21.70	22.20	22.20	22.20	23.20	23.70
Number of Fan Motors			—	4	4	6	6	6	6	6	6
Capacity Ratio of IDU/ODU			—	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	66	66	66	66	66	67	67	67	67
	Semi-anechoic	dB(A)	69	69	69	69	69	70	70	70	70
Piping	Liquid	(φ)mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas	(φ)mm	38.10	38.10	38.10	38.10	38.10	38.10	44.45	44.45	44.45
Current	Max	A	45+61.5	52+61.5	61.5+61.5	35.5+35.5+43.5	35.5+35.5+45	35.5+35.5+52	35.5+35.5+61.5	35.5+43.5+61.5	35.5+45+61.5
	Breaker	A	63+80	63+80	80+80	50+50+50	50+50+63	50+50+63	50+50+80	50+50+80	50+63+80
	Cooling	A	26.9+36.5	30.1+36.5	36.5+36.5	22.1+22.1+25.2	22.1+22.1+26.9	22.1+22.1+30.1	22.1+22.1+36.5	22.1+25.2+36.5	22.1+26.9+36.5
	Heating	A	27.4+39.3	31+39.3	39.3+39.3	21.6+21.6+25.5	21.6+21.6+27.4	21.6+21.6+31	21.6+21.6+39.3	21.6+25.5+39.3	21.6+27.4+39.3
Efficiency	EER	W/W	3.27	3.24	3.10	3.35	3.41	3.37	3.24	3.24	3.29
	COP	W/W	3.47	3.41	3.18	3.76	3.84	3.76	3.51	3.49	3.55
The max IDU connect qty.			-	64	64	64	64	64	64	64	64
Working temp. range	Cooling	-	Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB		
	Heating	-	Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB		
Refrigerant control modeelectronic 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)	1000	1000	1000	1000	1000	1000	1000	1000
	Regrigerant 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)	90	90	90	90	90	90	90	90
	Between "1st branch Multi Kit" and farthest indoor unit		(m)	40	40	40	40	40	40	40	40
	Between "Multi Kit" and each indoor unit		(m)	10	10	10	10	10	10	10	10
Maximum level difference	Between outdoor units (combination of base units)		(m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units	ODU above IDU	(m)	110	110	110	110	110	110	110	110
		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°C DB 19°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters
Heating Operation Conditions:
Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB 6°C WB
Piping Lift: 0 Meter

2. The sound pressure is based on the following conditions.
1 Meter from the unit service cover surface, and 1.36 Meters from floor level.
The above data is based on the cooling mode. In case of heating mode, the sound pressure level increasesby approximately 1~2 dB. The above data was measured in an semianechoic chamber so that reflected sound should be taken into consideration in the field.

SPECIFICATIONS



HP class			62HP	64HP	66HP	68HP	70HP	72HP	74HP	76HP	78HP
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 Name			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	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		m3/min	933	952	952	1025	1025	1044	1116	1189	1189
Dimension		H×W×D	mm	1725×4474×782	1725×4474×782	1725×4474×782	1725×4864×782	1725×4864×782	1725×5322×782	1725×5712×782	1725×5712×782
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
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
Ref.	Type	—	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
	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	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)	67	67	67	67	68	68	68	68	68
	Semi-anechoic	dB(A)	70	70	70	70	71	71	71	71	71
Piping	Liquid	(φ)mm	19.05	19.05	19.05	22.20	22.20	22.20	22.20	22.20	22.20
	Gas	(φ)mm	44.45	44.45	44.45	44.45	44.45	44.45	50.80	50.80	50.80
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
Working temp. range	Cooling	-	Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB		
	Heating	-	Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB		
Refrigerant control modeelectronic 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)	1000	1000	1000	1000	1000	1000	1000	1000
	Regrigerant 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)	90	90	90	90	90	90	90	90
	Between "1st branch Multi Kit" and farthest indoor unit		(m)	40	40	40	40	40	40	40	40
	Between "Multi Kit" and each indoor unit		(m)	10	10	10	10	10	10	10	10
Maximum level difference	Between outdoor units (combination of base units)		(m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units	ODU above IDU	(m)	110	110	110	110	110	110	110	110
		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°C DB 19°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters
Heating Operation Conditions:
Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB 6°C WB
Piping Lift: 0 Meter

2. The sound pressure is based on the following conditions.
1 Meter from the unit service cover surface, and 1.36 Meters from floor level.
The above data is based on the cooling mode. In case of heating mode, the sound pressure level increasesby approximately 1~2 dB. The above data was measured in an semianechoic chamber so that reflected sound should be taken into consideration in the field.

SPECIFICATIONS



HP class			80HP	82HP	84HP	86HP	88HP	90HP	92HP	94HP	96HP
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 Name			RAS-80HNBCM ^Q	RAS-82HNBCM ^Q	RAS-84HNBCM ^Q	RAS-86HNBCM ^Q	RAS-88HNBCM ^Q	RAS-90HNBCM ^Q	RAS-92HNBCM ^Q	RAS-94HNBCM ^Q	RAS-96HNBCM ^Q
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	1316	1316	1335	1335	1354	1354	1373	1373	1392
Dimension	H×W×D	mm	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782
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
Ref.	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	(φ)mm	22.20	22.20	22.20	22.20	22.20	25.40	25.40	25.40	25.40
	Gas	(φ)mm	50.80	50.80	50.80	50.80	50.80	50.80	50.80	50.80	50.80
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
Efficiency	EER	W/W	3.50	3.47	3.37	3.35	3.27	3.25	3.18	3.16	3.10
	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°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB			Stable work at -5°C~48°C DB and interval at 48°C~52°C DB		
	Heating	-	Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB			Stable work at -20°C~15°C WB		
Refrigerant control modeelectronic 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)	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Regrigerant piping length	Actual	165	165	165	165	165	165	165	165	165
		Equivalent	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit		(m)	90	90	90	90	90	90	90	90
	Between "1st branch Multi Kit" and farthest indoor unit		(m)	40	40	40	40	40	40	40	40
	Between "Multi Kit" and each indoor unit		(m)	10	10	10	10	10	10	10	10
Maximum level difference	Between outdoor units (combination of base units)		(m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units	ODU above IDU	(m)	110	110	110	110	110	110	110	110
		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°C DB 19°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters
Heating Operation Conditions:
Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB 6°C WB
Piping Lift: 0 Meter

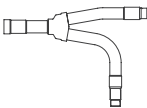
2. The sound pressure is based on the following conditions.
1 Meter from the unit service cover surface, and 1.36 Meters from floor level.
The above data is based on the cooling mode. In case of heating mode, the sound pressure level increasesby approximately 1~2 dB. The above data was measured in an semianechoic chamber so that reflected sound should be taken into consideration in the field.

OPTIONS

Piping connection kit

Piping connection kit		Outdoor Unit
Model name	Capacity	Number of modules
JM-30SNQ	26-34HP	2
JM-46SNQ	36-48HP	2
JM-30SNQ+JM-46SNQ	50-54HP	3
JM-30SNQ+JM68SNQ	56-72HP	3
JM-30SNQx2+JM-68SNQ	74-96HP	4

JM-46SNQ

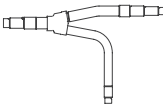


Multi-Kit

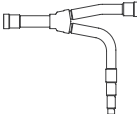
1) 1st branch Multi-kit

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

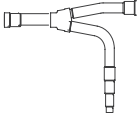
JE-102SN



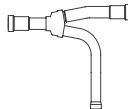
JE-162SN



JE-242SN



JE-302SN



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

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

Drain Pipe Joint

Model Name	
Drain Pipe Joint	DC-01Q

Required Qty	
Outdoor Unit	Qty
8-18HP	1
20-36HP	2
38-40HP, 50-54HP	3
42-48HP, 56-60HP	4
62-66HP, 74-78HP	5
68-72HP, 80-84HP	6
86-90HP	7
92-96HP	8

Componetns of 1 Drain pipe joint

Part Name	Qty	Usage
Drain pipe joint	2	Connect the drain connection
Drain pipe cap	2	Blocking the water pipe mouth
Rubber cap	4	Sealed drain connection and drain cap





INDEX

Indoor Units

27	Ceiling Cassette
27	4-way cassette
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	240V
35	High external static pressure
	Medium external static pressure
36	Low external static pressure
37	Slim
	Compact
	220V
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	Medium external static pressure
	Compact
41	Others
41	Floor concealed
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45	Wall mounted
47	Ventilation
47	All fresh air unit
48	Total heat exchanger
49	Optional Parts
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50	introduction of motion sensor kit

CEILING CASEESTTE

4-way cassette type



Dimensions

RCI-1.0 FSKDNQ	20Kg	
RCI-1.5~2.0 FSKDNQ	21Kg	
RCI-2.5 FSKDNQ	22Kg	
P-AP160NA(1/E)	6.5Kg	
RCI-3.0~6.0 FSKDNQ	26Kg	
P-AP160NA(1/E)	6.5Kg	

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 Cooling Capacity		kW(Btu/h)	2.8(9,600)	4.0(13,600)	5.6(19,100)	7.1(24,200)	8.0(27,300)	11.2(38,200)	14.0(47,800)
Nominal Heating Capacity		kW(Btu/h)	3.2(10,900)	4.8(16,400)	6.3(21,500)	8.5(29,000)	9.0(30,700)	12.5(42,600)	16.0(54,600)
Sound Pressure Level(Overall A Scale) (Hi2/Hi/Me/Lo)		dB	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
Outer Dimensions	Height	mm(in.)	248(9-3/4)	248(9-3/4)	248(9-3/4)	248(9-3/4)	298(11-3/4)	298(11-3/4)	298(11-3/4)
	Width	mm(in.)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)
	Depth	mm(in.)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)	840(33-1/16)
Net Weight		kg(lbs.)	20(44)	21(46)	21(46)	22(49)	26(57)	26(57)	26(57)
Refrigerant			R410A						
Indoor Fan		Air Flow Rate(Hi2/Hi/Me/Lo)	m ³ /min.(l/s)	15/13/11/9 (250/217/ 183/150)	21/17/14/11 (350/283/ 233/183)	22/17/14/11 (367/283/ 233/183)	27/23/18/14 (450/383/ 300/233)	27/23/18/14 (450/383/ 300/233)	37/31/24/20 (617/517/ 433/350)
Motor		W	57	57	57	57	127	127	127
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 9.52(3/8)
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)
	Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement		m ³	0.21	0.21	0.21	0.21	0.25	0.25	0.25

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°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)
Outdoor Air Inlet Temperature: 6°C WB (43°F WB)
Piping Length:7.5 Meters
Piping Lift:0 Meter

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

1.5 Meters Beneath the Unit.

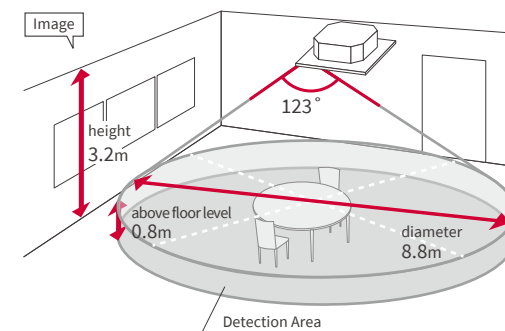
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. Decoration panel is included.

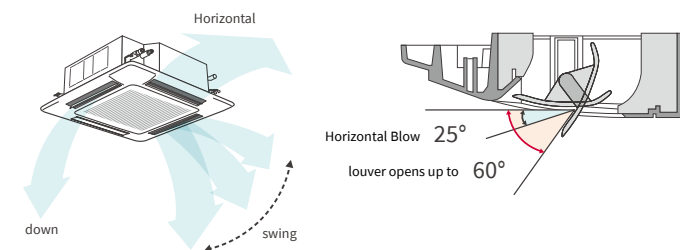
FEATURES AND BENEFITS

Adaptability

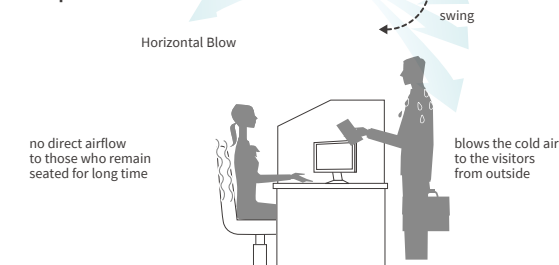
- 1) Wide Detection area of motion sensor
adjust the airflow, air volume and even temperature



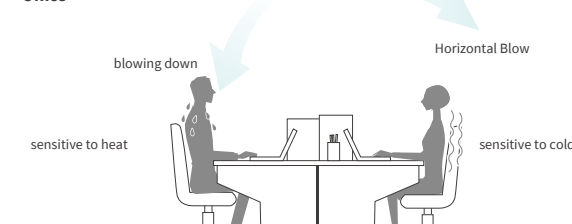
- 2) Control air flow with individual four-way louvers
more comfortable air conditioning can be achieved along each zone requirement



Example: Reception

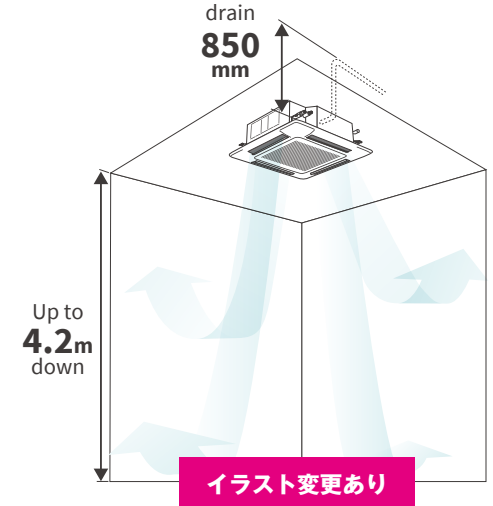


Example: Office

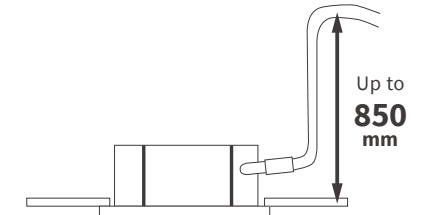


Design Flexibility

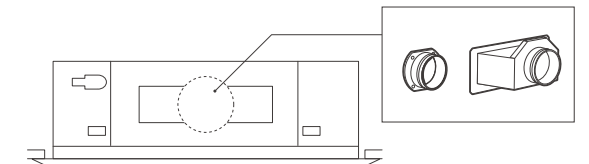
- 1) used in both narrow ceiling cavity,
and with high ceiling



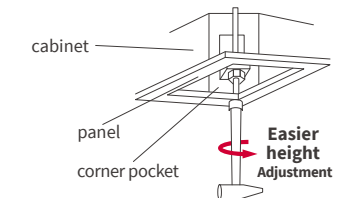
- 2) Standard drain pump with 850 mm lift



- 3) Round ducts can be attached directly



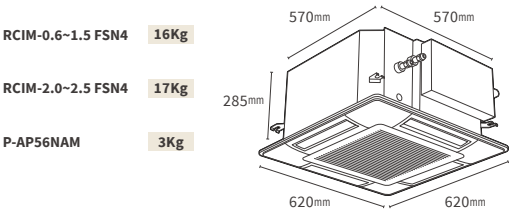
- 4) The height of the space for installing the unit can be fine-tuned



4-way cassette compact type



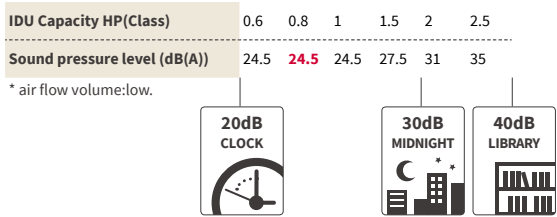
Dimensions



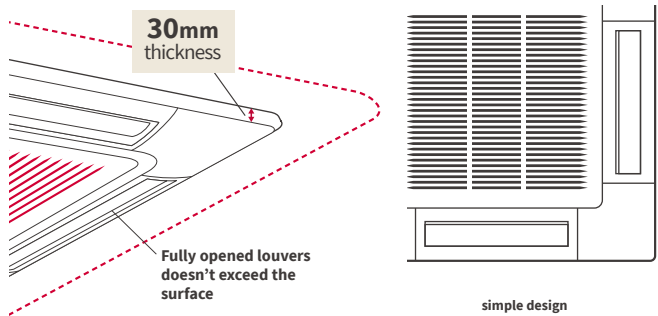
FEATURES AND BENEFITS

Adaptability

1) Top-class silent operation
as quiet as gentle breeze

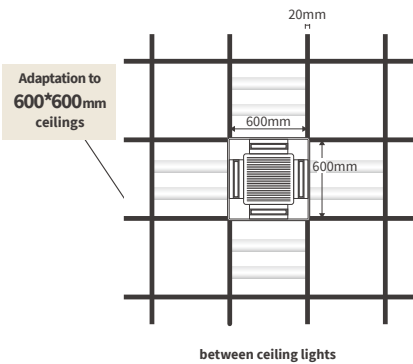


2) Aesthetics

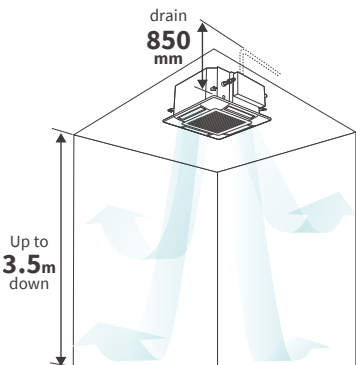


Design Flexibility

1) Compact



2) High Ceiling Available
Standard drain-pump



3) Adopting new antibacterial agent of drain pan
for the better air and easy maintenance



inhibit the generation of slime

Model			RCIM-0.6FSN4	RCIM-0.8FSN4	RCIM-1.0FSN4	RCIM-1.5FSN4	RCIM-2.0FSN4	RCIM-2.5FSN4	
Indoor Unit Power Supply			AC 1 Φ , 230V 50Hz, 220-240V 50Hz, 220V 60Hz						
Nominal Cooling Capacity		kW(Btu/h)	1.6(5,500)	2.2(7,500)	2.8(9,600)	4.0(13,600)	5.6(19,100)	7.1(24,200)	
Nominal Heating Capacity		kW(Btu/h)	1.9(6,500)	2.5(8,500)	3.2(10,900)	4.8(16,400)	6.3(21,500)	8.5(29,000)	
Sound Pressure Level (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	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 Dimensions	Height	mm(in.)	285(11-7/32)	285(11-7/32)	285(11-7/32)	285(11-7/32)	285(11-7/32)	285(11-7/32)	
	Width	mm(in.)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	
	Depth	mm(in.)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	
Net Weight		kg(lbs.)	16(35.3)	16(35.3)	16(35.3)	16(35.3)	17(37.5)	17(37.5)	
Refrigerant			R410A						
Indoor Fan		Air Flow Rate (Hi2-Hi-Me-Lo)	m ³ /min. (cfm)	10-8.5-7.5-6 (353-300-265-212)	11-9.5-8-6 (388-335-282-212)	12-10-8.5-6 (424-353-300-212)	13-11-9.5-7 (459-388-335-247)	15-12-10-8 (530-424-353-282)	16-14-12-10 (565-494-424-353)
Motor		W	57	57	57	57	57	57	
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.52(3/8)	
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 15.88(5/8)	
	Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	

Adaptable Panel Model			P-AP56NAM (without Motion Sensor)
Color			Neutral White
Outer Dimensions	Height	mm(in.)	30(1-3/16)
	Width	mm(in.)	620(24-13/32)
	Depth	mm(in.)	620(24-13/32)
Net Weight		kg(lbs.)	3(6.6)

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°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)
6°C WB (43°F WB)
Piping Length:7.5 Meters
Piping Lift:0 Meter

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

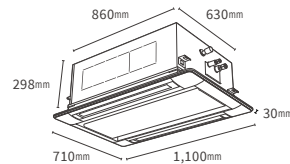
図が入る可能性あり

2-way cassette type

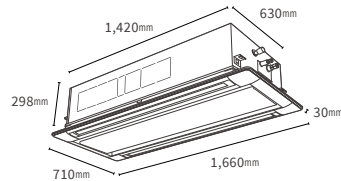


Dimensions

RCD-0.8~1.0 FSN3	23Kg
RCD-1.5~2.0 FSN3	25Kg
RCD-2.5~3.0 FSN3	25Kg
P-AP90DNA	7.5Kg



RCD-5.0~6.0 FSN3	39Kg
P-AP160DNA	10.5Kg



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 Cooling Capacity	kW(Btu/h)	2.2(7,500)	2.8(9,600)	4.0(13,600)	5.6(19,100)	7.1(24,200)	8.0(27,300)	11.2(38,200)	14.0(47,800)	16.0(54,300)
Nominal Heating Capacity	kW(Btu/h)	2.5(8,500)	3.2(10,900)	4.8(16,400)	6.3(21,500)	8.5(29,000)	9.0(30,700)	12.5(42,600)	16.0(54,600)	18.0(61,400)
Sound Pressure Level (Overall A Scale)(Hi2-Hi-Me-Lo)	dB	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	48-45-42-39
Outer Dimensions	Height	mm(in.)	298(11-3/4)	298(11-3/4)	298(11-3/4)	298(11-3/4)	298(11-3/4)	298(11-3/4)	298(11-3/4)	298(11-3/4)
	Width	mm(in.)	860(33-7/8)	860(33-7/8)	860(33-7/8)	860(33-7/8)	860(33-7/8)	1,420(55-7/8)	1,420(55-7/8)	1,420(55-7/8)
	Depth	mm(in.)	630(24-13/16)	630(24-13/16)	630(24-13/16)	630(24-13/16)	630(24-13/16)	630(24-13/16)	630(24-13/16)	630(24-13/16)
Net Weight	kg(lbs.)	23(50.7)	23(50.7)	25(55.1)	25(55.1)	25(55.1)	25(55.1)	39(86.0)	39(86.0)	39(86.0)
Refrigerant		R410A (Nitrogen-Charged for Corrosion-Resistance)								
Indoor Fan	Air Flow Rate (Hi2-Hi-Me-Lo)	m³/min. (cfm)	10-9-7.5-6.5 (353-318-265-230)	11-9.5-8.5-7 (388-335-300-247)	15-13-11.5-10 (530-459-406-353)	16.5-14.5-12.5-10.5 (583-512-441-371)	18.5-16.5-14.5-12.5 (653-583-512-441)	21-18.5-16-12.5 (742-653-565-441)	30-26.5-23-20 (1,059-936-812-706)	35-31-27-21 (1,236-1,095-953-742)
			37-32.5-28.5-24 (1,306-1,147-1,006-847)							
Motor	W		57	57	57	57	57	57 x 2	57 x 2	57 x 2
Connections		Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 9.52(3/8)
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)
	Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement	m³		0.24	0.24	0.24	0.24	0.24	0.36	0.36	0.36

Adaptable Panel Model		P-AP90DNA (for 2.2~8.0kW)	P-AP160DNA (for 11.2~16.0kW)
Color		Neutral White	
Outer Dimensions	Height	mm(in.)	30(1-3/16)
	Width	mm(in.)	1,100(43-5/16)
	Depth	mm(in.)	710(27-15/16)
Net Weight	kg(lbs.)	7.5(16.5)	10.5(23.2)
Approximate Packing Measurement	m³	0.13	0.20

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°C DB (80°F DB)
Outdoor Air Inlet Temperature:	35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature:	7°C DB (45°F DB)
Outdoor Air Inlet Temperature:	6°C DB (43°F DB)
Piping Length:	7.5 Meters
Piping Lift:	0 Meter

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

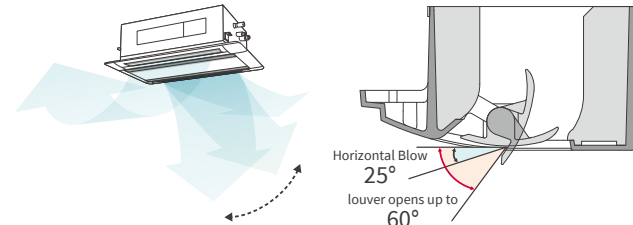
1.5 Meters Beneath the Unit.
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

FEATURES AND BENEFITS

Adaptability

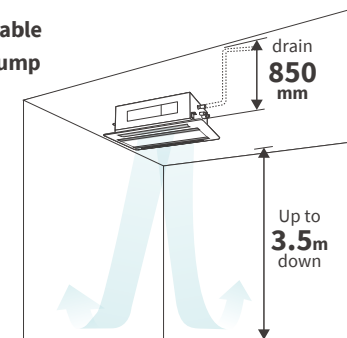
1) Control air flow with individual louvers

suitable environment can be achieved for each person

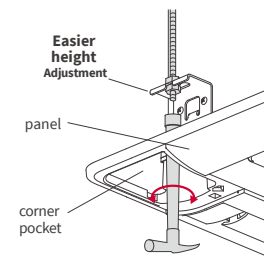


Design Flexibility

1) High Ceiling Available Standard drain-pump

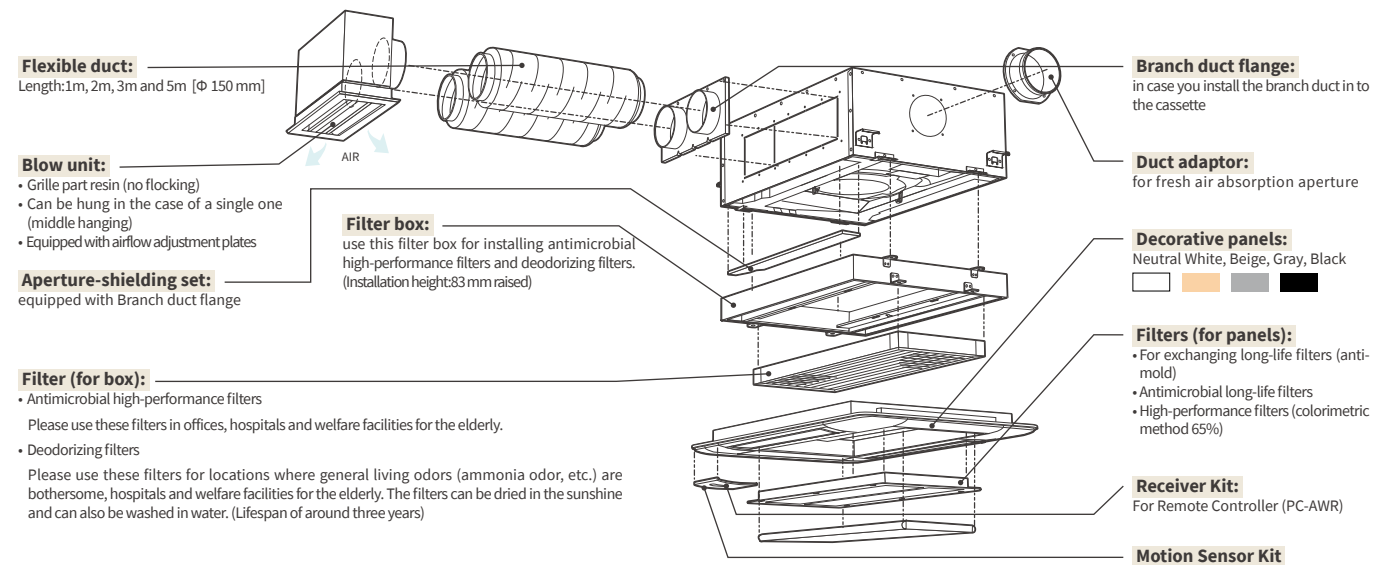


2) The height of the space for installing the unit can be fine-tuned



OPTIONAL PARTS

Please consult your distributors or dealers in inquiry



Wide panel (for renewal):

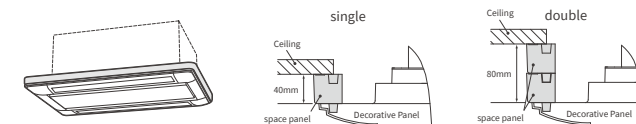
Please choose the size of the wide panel according to the measurements of an existing ceiling opening and the measurements of an already-installed indoor unit.

- Standard
- Oil guard specifications

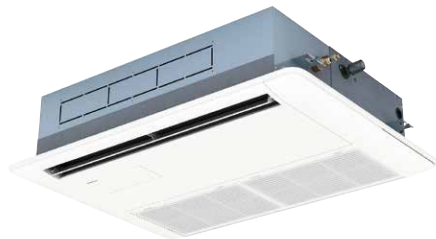
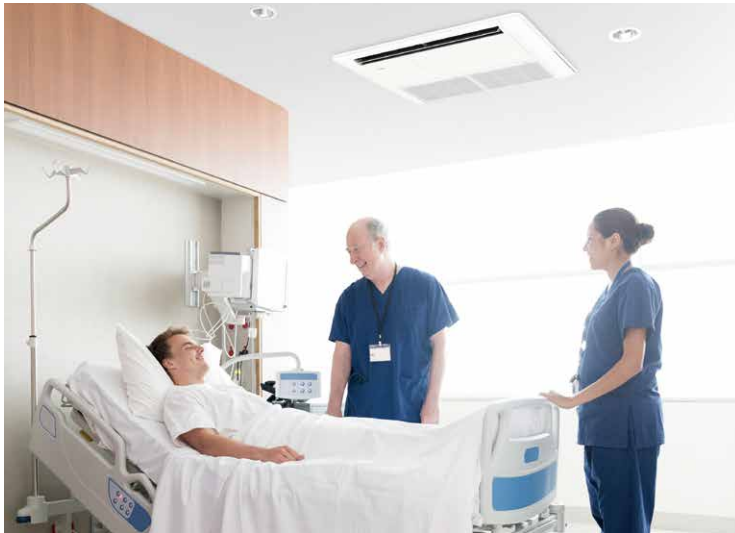
Type	Small	Large
Measurement of External form (mm)	780*1580*12	780*1940*12

Space panel:

Please use these panels for handling the shallow ceiling cavity, and to prevent smudging. If you wish to install a humidifier, branch duct flanges and a fresh air absorption kit in combination with space panels, you may not be able to do so because of the cradling structure of the ceiling. In addition, a shallower ceiling cavity can handle double layers of space panels.



1-way cassette type



Dimensions

RCS-0.8~1.0 FSN	25Kg		
RCS-1.5~2.0 FSN	26Kg		
P-AP36CNA	4.5Kg		
P-AP56CNA	4.5Kg		
RCS-2.5~3.0 FSN	33Kg		
P-AP80CNA	6Kg		

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 Cooling Capacity	kW(Btu/h)	2.2(7,500)	2.8(9,600)	4.0(13,600)	5.6(19,100)	7.1(24,200)	8.0(27,300)
Nominal Heating Capacity	kW(Btu/h)	2.5(8,500)	3.2(10,900)	4.8(16,400)	6.3(21,500)	8.5(29,000)	9.0(30,700)
Sound Pressure Level (Overall A Scale) (Hi2/Hi/Me/Lo)	dB	34/32/29/27	36/34/31/28	40/37/33/31	42/38/35/31	43/39/36/32	43/40/37/33
Outer Dimensions	Height	mm(in.)	235(9-1/4)	235(9-1/4)	235(9-1/4)	235(9-1/4)	235(9-1/4)
	Width	mm(in.)	900(35-7/16)	900(35-7/16)	900(35-7/16)	1210(47-5/8)	1210(47-5/8)
	Depth	mm(in.)	710(27-15/16)	710(27-15/16)	710(27-15/16)	710(27-15/16)	710(27-15/16)
Net Weight	kg(lbs.)	25(55.1)	25(55.1)	26(57.3)	26(57.3)	33(72.8)	33(72.8)
Refrigerant		R410A					
Indoor Fan	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	20/17.5/15.5/13
Air Flow Rate(Hi2/Hi/Me/Lo)	(cfm)	(300/265/229/212)	(335/300/265/229)	(459/406/353/300)	(512/459/388/335)	(653/582/512/424)	(706/618/547/459)
Motor Output	W	50	50	50	50	80	80
Connections		Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.52(3/8)	Φ 9.52(3/8)
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 15.88(5/8)	Φ 15.88(5/8)
	Condensate Drain		VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement	m³	0.25	0.25	0.25	0.25	0.32	0.32

Adaptable Panel Model		P-AP36CNA	P-AP56CNA	P-AP80CNA
Color		Neutral White		
Outer Dimensions	Height	mm(in.)	35(1-3/8)	35(1-3/8)
	Width	mm(in.)	1100(43-5/16)	1410(55-1/2)
	Depth	mm(in.)	800(31-1/2)	800(31-1/2)
Net Weight	kg(lbs.)	4.5(9.9)	4.5(9.9)	6(13.2)

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°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)
Outdoor Air Inlet Temperature: 6°C WB (43°F WB)
Piping Length:7.5 Meters
Piping Lift:0 Meter

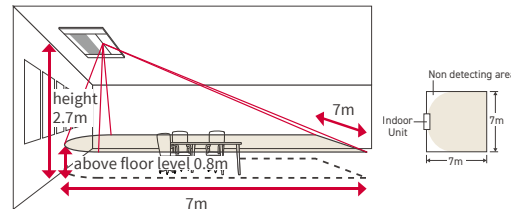
2. The sound pressure level is based on following conditions.

1.5 Meters 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.

FEATURES AND BENEFITS

Adaptability

1) Wide Detection area of motion sensor
adjust the airflow, air volume



2) Quiet operation
new design in fan inlet and fan resulted in the low sound pressure

IDU cooling capacity (kW)	2.2	2.8	4.0	5.6	7.1	8.0
Sound Pressure Level (dB(A))	27	28	31	31	32	33

* air flow volume:low.

20dB
CLOCK

30dB
MIDNIGHT

Design Flexibility

1) 3 installation types selectable

Corner type (standard)

allows for ceiling planning for lighting and interiors, suitable for installation in the perimeter zone near the window

Clipped ceiling (one-way) type

suitable for design that focuses on lighting and clipped ceilings, in case the unit is unable to be directly embedded in the ceiling

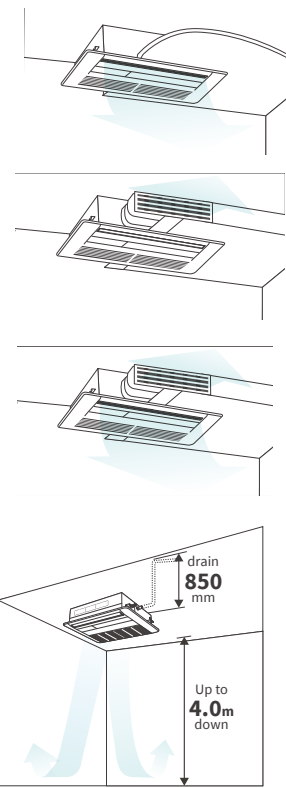
Clipped ceiling (two-way) type

provides increased comfort through two-direction airflow by utilizing the advantages of installation on a clipped ceiling
Room temperature distribution can be improved by both forward airflow and downward airflow

2) High Ceiling Available
Standard drain-pump

IDU Capacity (HP Class)	0.8-1.3	1.5-2.5	3.0
Height (m)	3.0	3.5	4.0

* air volume:high
* standard corner type



OPTIONAL PARTS

Please consult your distributors or dealers in inquiry

Grille for front air discharge:

in case of Clipped ceiling (one-way) type or Clipped ceiling (two-way) type

Aperture-shielding set:

in case of Clipped ceiling (one-way) type or Clipped ceiling (two-way) type

Decorative panels:
Neutral White, Beige, Gray, Black

Receiver Kit:
For Remote Controller (PC-AWR)

Motion Sensor Kit

Wide panel (for renewal):

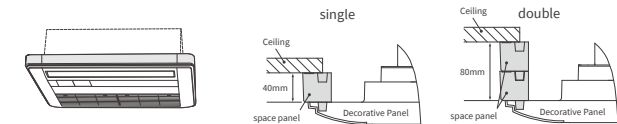
Please choose the size of the wide panel according to the measurements of an existing ceiling opening and the measurements of an already-installed indoor unit.

- Standard
- Oil guard specifications

Type	Small	Medium	Large
Measurement of External form (mm)	870*1370*12	870*1460*12	870*1520*12

Space panel:

Please use these panels for handling the shallow ceiling cavity, and to prevent smudging. In addition, a shallower ceiling cavity can handle double layers of space panels.



DUCTED

High ESP (External Static Pressure) type



Model			RPI-3.0FSNQH	RPI-3.3FSNQH	RPI-4.0FSNQH	RPI-5.0FSNQH	RPI-6.0FSNQH	RPI-8.0FSNQ	RPI-10.0FSNQ
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220/1/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	Heating	kW	9.6	10.0	13.0	16.3	18.0	25.0	31.5
Power Input			W	280	280	280	400	400	1000
Current			A	1.30	1.30	1.30	1.90	1.90	2.40
Air Flow Rate (H/M/L)			m³/min	25/21/17	25/21/17	27/23/29	37/31/25	38/35/29	58
ESP			Pa	120(90-120)	120(90-120)	120(90-120)	120(90-120)	180	180
Dimension			Unit (H×W×D)	mm	350×(900+75)×800	350×(900+75)×800	350×(900+75)×800	350×(1300+75)×800	350×(1300+75)×800
Weight			Net Weight	kg	46	46	46	58	58
Air Outlet Size			mm	803×220	803×220	803×220	1203×220	1203×220	916×338
Air Inlet Size			mm	833×306	833×306	833×306	833×306	833×306	910×415
Refrigerant Type			-	R410A					
Noise (Anechoic)			H/M/L	dB(A)	40/37/33	40/37/33	41.5/39/35	42/39/35	43/39/37
Connections			-	Flare-Nut Connection (with Flare Nuts)					
Piping			Liquid/Gas	(Φ)mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05
			Drainage	mm	VP25				
Packaging Volume			m³	0.38	0.38	0.38	0.52	0.90	1.06

- NOTES:

1.The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35°C DB (95°F DB)
- Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)

Outdoor Air Inlet Temperature: 6°C WB (43°F WB)

Piping Length: 7.5 Meters
2. The sound pressure level is based on following conditions.
1.5 Meters Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). 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 dB. 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			RPI-0.8FSNQH	RPI-1.0FSNQH	RPI-1.3FSNQH	RPI-1.5FSNQH	RPI-1.8FSNQH	RPI-2.0FSNQH	RPI-2.3FSNQH	RPI-2.5FSNQH	RPI-8.0FSNQ3Q	RPI-10.0FSNQ3Q
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	22.4	28.0
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	25.0	31.5
Power Input			W	100	100	140	140	170	170	170	760	1230
Current			A	0.50	0.50	0.70	0.70	0.80	0.80	0.80	1.40	1.80
Air Flow Rate (H/M/L)			m³/min	8/7/6	8/7/6	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	140	180
ESP			Pa	50(50-80)	50(50-80)	50(50-80)	50(50-80)	50(50-80)	50(50-80)	50(50-80)	100	100
Dimension			Unit (H×W×D)	mm	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720
Weight			Net Weight	kg	26	26	26	35	35	35	96	108
Air Outlet Size			mm	553×220	553×220	553×220	553×220	803×220	803×220	803×220	916×338	1106×338
Air Inlet Size			mm	583×226	583×226	583×226	583×226	833×226	833×226	833×226	910×415	1100×415
Refrigerant Type			-	R410A						Brazing		
Noise (Anechoic)			H/M/L	dB(A)	29.5/26/24.5	29.5/26/24.5	34/32/30	34/32/30	34/32/30	35/33/31	50	52
Connections			-	Flare-Nut Connection (with Flare Nuts)						Brazing		
Piping			Liquid/Gas	(Φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88	9.52/15.88	9.52/22.23
			Drainage	mm	VP25							
Packaging Volume			m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.90	1.06

- NOTES:

1.The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35°C DB (95°F DB)
- Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)

Outdoor Air Inlet Temperature: 6°C WB (43°F WB)

Piping Length: 7.5 Meters
2. The sound pressure level is based on following conditions.
1.5 Meters Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). 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 dB. 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			RPI-0.8FSNQ	RPI-1.0FSNQ	RPI-1.3FSNQ	RPI-1.5FSNQ	RPI-1.8FSNQ	RPI-2.0FSNQ	RPI-2.3FSNQ	RPI-2.5FSNQ	RPI-3.0FSNQ	RPI-3.3FSNQ	RPI-4.0FSNQ	RPI-5.0FSNQ	RPI-6.0FSNQ
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0
Power Input			W	100	100	140	140	140	140	140	280	280	280	400	400
Current			A	0.50	0.50	0.70	0.70	0.70	0.70	0.70	1.30	1.30	1.30	1.90	1.90
Air Flow Rate (H/M/L)			m³/min	8/7/6	8/7/6	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	16/14/12	16/14/12	25/21/17	25/21/17	27/23/29
ESP			Pa	30	30	30	30	30	30	30	60	60	60	60	60
Dimension			Unit (H×W×D)	mm	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720
Weight			Net Weight	kg	26	26	26	26	35	35	35	35	46	58	58
Air Outlet Size			mm	553×220	553×220	553×220	553×220	803×220	803×220	803×220	803×220	803×220	803×220	1203×220	1203×220
Air Inlet Size			mm	583×226	583×226	583×226	583×226	833×226	833×226	833×226	833×226	833×226	833×226	833×226	833×226
Refrigerant Type			-	R410A											
Noise (Anechoic)			H/M/L	dB(A)	29.5/26/24.5	29.5/26/24.5	34/32/30	34/32/30	34/32/30	34/32/30	35/33/31	35/33/31	40/37/33	40/37/33	41.5/39/35
Connections			-	Flare-Nut Connection (with Flare Nuts)											
Piping			Liquid/Gas	(Φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
			Drainage	mm	VP25										
Packaging Volume			m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52

- NOTES:

1.The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35°C DB (95°F DB)
- Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)

Outdoor Air Inlet Temperature: 6°C WB (43°F WB)

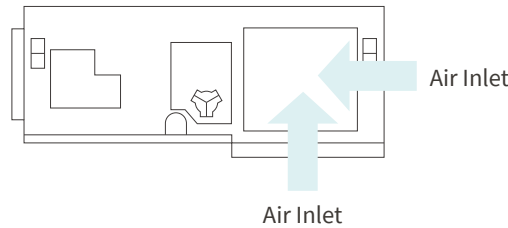
Piping Length: 7.5 Meters
2. The sound pressure level is based on following conditions.
1.5 Meters Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1 dB. 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.

FEATURES AND BENEFITS

Design Flexibility

1) Air Inlet



OPTIONAL PARTS

Optional Drain Pump

Drain-up mechanism can be supplied as optional part.

Drain Pump Nomenclature	IDU capacity	
	kW (Cooling)	HP Class
DUPI-132CQ	2.2 - 7.1	0.8 - 2.5
DUPI-162Q	8.4 - 16.0	3.0 - 6.0
DUPI-15H2Q	22.4 - 28.0	8.0 - 10.0

Optional Filter

Filter Nomenclature	Ducted Category	kW (Cooling)	HP Class
KW-PP1Q	Medium ESP Low ESP	2.2 - 4.3	0.8 - 1.5
KW-PP2Q	Medium ESP Low ESP	5.0 - 7.1	1.8 - 2.5
KW-PP3Q	High ESP Low ESP	8.4 - 11.2	3.0 - 4.0
KW-PP4Q	High ESP Low ESP	14.2 - 16.0	5.0 - 6.0

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 , 220V ~ 50Hz			
Nominal Cooling Capacity	kW	2.3	2.9	3.8	4.4
	kcal/h	2,000	2,500	3,300	3,800
	Btu/h	7,900	9,900	13,000	15,100
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9
	kcal/h	2,400	2,800	3,600	4,200
	Btu/h	9,500	11,100	14,300	16,700
Sound Pressure Level(Overall A Scale)		dB	27-24-21	27-24-21	31-29-27
Outer Dimensions	Height	mm(in.)	192(7.56)	192(7.56)	192(7.56)
	Width	mm(in.)	700(27.56)	700(27.56)	700(27.56)
	Depth	mm(in.)	602(23.7)	602(23.7)	602(23.7)
Net Weight		kg(lbs.)	21(46)	21(46)	21(46)
Refrigerant		R410A(Nitrogen-Charged for Corrosion-Resistance)			
Indoor Fan	Air Flow Rate(Hi/Me/Lo)	m³/min	8/7/6	8/7/6	10/8/7
External Pressure *3)		Pa	10/30	10/30	10/30
Motor		W	15	15	25
Connections		Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)
	Condensate Drain		VP25	VP25	VP25
Approximate Packing Measurement		m³	0.15	0.15	0.15

- NOTES:

1.The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)

Outdoor Air Inlet Temperature: 6°C WB (43°F WB)

Piping Length: 7.5 Meters
Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions.
1.5 Meters Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). 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 dB. 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



Model		RPIZ-0.8FSN1Q/P	RPIZ-1.0FSN1Q/P	RPIZ-1.3FSN1Q/P	RPIZ-1.5FSN1Q/P	RPIZ-1.8FSN1Q/P	RPIZ-2.0FSN1Q/P	RPIZ-2.3FSN1Q/P	RPIZ-2.5FSN1Q/P
Indoor Unit Power Supply		AC 1Φ , 220-240V / 50Hz, 220V / 60Hz							
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
	Btu/h	7,500	9,500	12,300	14,700	17,100	19,100	21,500	24,200
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300
	Btu/h	9,600	11,100	14,300	16,700	19,100	22,200	25,600	29,000
Sound Pressure Level(Overall A Scale)		dB	27-24-21	27-24-21	31-29-26	31-29-26	34-30-28	34-30-28	35-33-30
Outer Dimensions	Height	mm(in.)	192(7-9/16)	192(7-9/16)	192(7-9/16)	192(7-9/16)	192(7-9/16)	192(7-9/16)	192(7-9/16)
	Width	mm(in.)	900(35-7/16)	900(35-7/16)	900(35-7/16)	900(35-7/16)	1,170(46-1/16)	1,170(46-1/16)	1,170(46-1/16)
	Depth	mm(in.)	447(17-19/32)	447(17-19/32)	447(17-19/32)	447(17-19/32)	447(17-19/32)	447(17-19/32)	447(17-19/32)
Net Weight		kg(lbs.)	21(46)	21(46)	22(48)	22(48)	27(59)	27(59)	27(59)
Refrigerant		R410A(Nitrogen-Charged for Corrosion-Resistance)							
Indoor Fan	Air Flow Rate(Hi/Me/Lo)	m³/min.(cfm)	8/7/6 (283/247/212)	8/7/6 (283/247/212)	10/8/7 (353/283/247)	10/8/7 (353/283/247)	14.5/12.5/10.5 (512/442/371)	14.5/12.5/10.5 (512/442/371)	16/14/12 (556/494/424)
External Pressure *3)		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Motor		W	16	16	25	25	40	50	50
Connections		Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.53(3/8)	Φ 9.53(3/8)
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)
	Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement		m³	0.15	0.15	0.15	0.15	0.18	0.18	0.18

- NOTES:

1.The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)

Outdoor Air Inlet Temperature: 6°C WB (43°F WB)

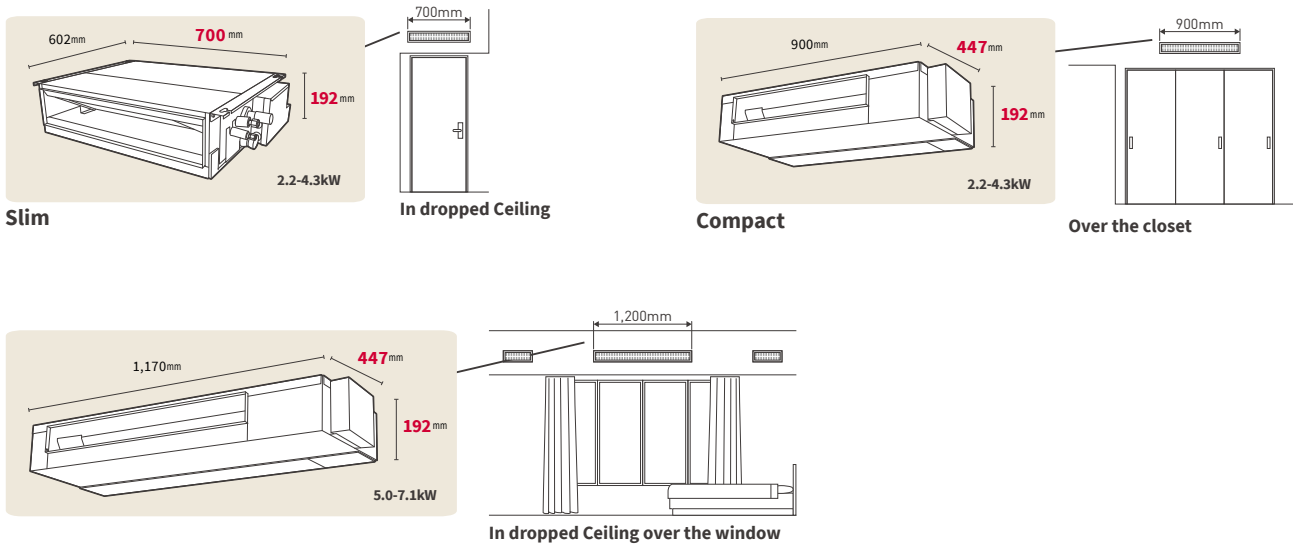
Piping Length: 7.5 Meters
Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions.
1.5 Meters Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1 dB. 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.

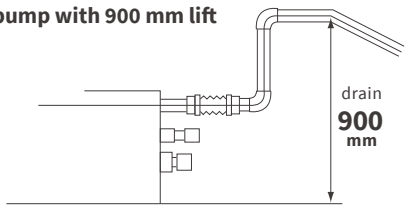
FEATURES AND BENEFITS OF SLIM / COMPACT MODEL

Design Flexibility

1) Slim & compact design

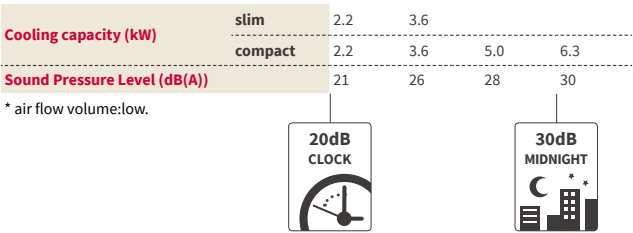


2) Standard drain pump with 900 mm lift



Adaptability

Quiet Operation



Optional Filter

Filter Nomenclature	Ducted Category	kW (Cooling)	HP Class
KW-PP5Q	Compact	2.2 - 4.3	0.8 - 1.5
KW-PP6Q	Compact	5.0 - 7.1	1.8 - 2.5

Ducted 220V High ESP (External Static Pressure) Type



Model	With Drain-pump		RPIH-0.8HNGTAQ	RPIH-1.0HNGTAQ	RPIH-1.3HNGTAQ	RPIH-1.5HNGTAQ	RPIH-1.6HNGTAQ	RPIH-1.8HNGTAQ	RPIH-2.0HNGTAQ	RPIH-2.3HNGTAQ	RPIH-2.5HNGTAQ	RPIH-3.0HNGTAQ	RPIH-3.3HNGTAQ	RPIH-3.6HNGTAQ	RPIH-4.0HNGTAQ	RPIH-4.5HNGTAQ	RPIH-5.0HNGTAQ	RPIH-6.0HNGTAQ	(not available)	(not available)
	Without Drain-pump		RPIH-0.8HNGUAQ	RPIH-1.0HNGUAQ	RPIH-1.3HNGUAQ	RPIH-1.5HNGUAQ	RPIH-1.6HNGUAQ	RPIH-1.8HNGUAQ	RPIH-2.0HNGUAQ	RPIH-2.3HNGUAQ	RPIH-2.5HNGUAQ	RPIH-3.0HNGUAQ	RPIH-3.3HNGUAQ	RPIH-3.6HNGUAQ	RPIH-4.0HNGUAQ	RPIH-4.5HNGUAQ	RPIH-5.0HNGUAQ	RPIH-6.0HNGUAQ	RPIH-8.0HNGUEQ	RPIH-10HNGUEQ
Power Supply		V/Ph/Hz	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	22.4	28.0
	Heating	kW	2.5	3.2	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	25.0	31.5
Power Input		W	105	105	140	140	140	150	150	215	215	285	285	285	285	375	375	465	970	1180
Current	Norminal	A	0.48	0.48	0.68	0.68	0.68	0.69	0.69	0.98	0.98	1.31	1.31	1.31	1.31	1.80	1.80	2.14	1.88	2.39
Air Flow Rate (H/M/L)		m³/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	12/10/8.5	15/13/10	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	35.5/29/24	39/31/24	58	72
ESP	Standard (min~max)	Pa	80(50/80)	80(50/80)	80(50/80)	80(50/80)	80(50/80)	80(50/80)	80(50/80)	120(90/120)	120(90/120)	120(90/120)	120(90/120)	120(90/120)	120(90/120)	120(90/120)	120(90/120)	120(90/120)	220	220
Dimension	Unit (H×W×D)	mm	270×(650+75) ×720	270×(650+75) ×720	270×(650+75) ×720	270×(650+75) ×720	270×(650+75) ×720	270×(900+75) ×720	270×(900+75) ×720	300×(1100+75) ×800	300×(1100+75) ×800	300×(1100+75) ×800	300×(1100+75) ×800	300×(1100+75) ×800	300×(1400+75) ×800	300×(1400+75) ×800	300×(1400+75) ×800	300×(1400+75) ×800	470×1060×1120	470×1250×11120
Weight	Net Weight	kg	23	23	25	25	25	30	30	31	31	45	45	45	45	52	52	52	96	104
Air Outlet Size		mm	582×138	582×138	582×138	582×138	582×138	832×138	832×138	832×138	832×138	1036×195	1036×195	1036×195	1036×195	1336×195	1336×195	1336×195	916×338	1106×338
Air Inlet Size		mm	606×225	606×225	606×225	606×225	606×225	856×225	856×225	856×225	856×225	1047×256	1047×256	1047×256	1047×256	1347×256	1347×256	1347×256	910×415	1100×415
Refrigerant Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)	H/M/L	dB(A)	39/30/26	39/30/26	40/35/31	40/35/31	40/35/31	41/35/30	41/35/30	43/35/30	43/35/30	46/40/36	46/40/36	46/40/36	46/40/36	51/43/38	51/43/38	51/44/39	53	57
Connections		-	Flare-Nut Connection (with Flare Nuts)								Flare-Nut Connection (with Flare Nuts)								Brazing	
Piping	Liquid/Gas	(φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05	9.52/22.23
	Drainage	mm	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Packaging Volume		m³	0.22	0.22	0.22	0.22	0.22	0.28	0.28	0.28	0.28	0.40	0.40	0.40	0.40	0.49	0.49	0.49	0.90	1.06

Ducted 220V Medium ESP (External Static Pressure) Type



Model	With Drain-pump		RPIM-0.8HNGTAQ	RPIM-1.0HNGTAQ	RPIM-1.3HNGTAQ	RPIM-1.5HNGTAQ	RPIM-1.6HNGTAQ	RPIM-1.8HNGTAQ	RPIM-2.0HNGTAQ	RPIM-2.3HNGTAQ	RPIM-2.5HNGTAQ	RPIM-3.0HNGTAQ	RPIM-3.3HNGTAQ	RPIM-3.6HNGTAQ	RPIM-4.0HNGTAQ	RPIM-4.5HNGTAQ	RPIM-5.0HNGTAQ	RPIM-6.0HNGTAQ
	Without Drain-pump		RPIM-0.8HNGUAQ	RPIM-1.0HNGUAQ	RPIM-1.3HNGUAQ	RPIM-1.5HNGUAQ	RPIM-1.6HNGUAQ	RPIM-1.8HNGUAQ	RPIM-2.0HNGUAQ	RPIM-2.3HNGUAQ	RPIM-2.5HNGUAQ	RPIM-3.0HNGUAQ	RPIM-3.3HNGUAQ	RPIM-3.6HNGUAQ	RPIM-4.0HNGUAQ	RPIM-4.5HNGUAQ	RPIM-5.0HNGUAQ	RPIM-6.0HNGUAQ
Power Supply		V/Ph/Hz	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW	2.5	3.2	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power Input		W	65	65	115	115	115	100	100	180	180	240	240	240	240	300	300	395
Current	Norminal	A	0.30	0.30	0.53	0.53	0.53	0.46	0.46	0.83	0.83	1.10	1.10	1.10	1.10	1.37	1.37	1.92
Air Flow Rate (H/M/L)		m³/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	12/10/8.5	15/13/10	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	35.5/29/24	39/31/24
ESP	Standard (min~max)	Pa	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60
Dimension	Unit (H×W×D)	mm	270×(650+75) ×720	270×(650+75) ×720	270×(650+75) ×720	270×(650+75) ×720	270×(650+75) ×720	270×(900+75) ×720	270×(900+75) ×720	300×(1100+75) ×800	300×(1100+75) ×800	300×(1100+75) ×800	300×(1100+75) ×800	300×(1100+75) ×800	300×(1400+75) ×800	300×(1400+75) ×800	300×(1400+75) ×800	300×(1400+75) ×800
Weight	Net Weight	kg	23	23	25	25	25	30	30	31	31	45	45	45	45	52	52	52
Air Outlet Size		mm	582×138	582×138	582×138	582×138	582×138	832×138	832×138	832×138	832×138	1036×195	1036×195	1036×195	1036×195	1336×195	1336×195	1336×195
Air Inlet Size		mm	606×225	606×225	606×225	606×225	606×225	856×225	856×225	856×225	856×225	1047×256	1047×256	1047×256	1047×256	1347×256	1347×256	1347×256
Refrigerant Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)	H/M/L	dB(A)	36/27/24.5	36/27/24.5	37/32/28	37/32/28	37/32/28	38/31/29.5	38/31/29.5	40/32/27	40/32/27	44/35/30	44/35/30	44/35/30	44/35/30	46/39/35	46/39/35	51/42/36
Connections		-	Flare-Nut Connection (with Flare Nuts)								Flare-Nut Connection (with Flare Nuts)							
Piping	Liquid/Gas	(φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
	Drainage	mm	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Packaging Volume		m³	0.22	0.22	0.22	0.22	0.22	0.28	0.28	0.28	0.28	0.40	0.40	0.40	0.40	0.49	0.49	0.49

Ducted 220V Compact Type



Model	With Drain-pump		RPIZ-0.6HNGTAQ	RPIZ-0.8HNGTAQ	RPIZ-0.9HNGTAQ	RPIZ-1.0HNGTAQ	RPIZ-1.1HNGTAQ	RPIZ-1.3HNGTAQ	RPIZ-1.5HNGTAQ	RPIZ-1.6HNGTAQ	RPIZ-1.8HNGTAQ	RPIZ-2.0HNGTAQ	RPIZ-2.3HNGTAQ	RPIZ-2.5HNGTAQ
	Without Drain-pump		RPIZ-0.6HNGUAQ	RPIZ-0.8HNGUAQ	RPIZ-0.9HNGUAQ	RPIZ-1.0HNGUAQ	RPIZ-1.1HNGUAQ	RPIZ-1.3HNGUAQ	RPIZ-1.5HNGUAQ	RPIZ-1.6HNGUAQ	RPIZ-1.8HNGUAQ	RPIZ-2.0HNGUAQ	RPIZ-2.3HNGUAQ	RPIZ-2.5HNGUAQ
Power Supply		V/Ph/Hz	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
Capacity	Cooling	kW	1.8	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
	Heating	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power Input		W	50	50	50	80	80	80	85	85	105	105	115	115
Current	Norminal	A	0.23	0.23	0.23	0.37	0.37	0.37	0.40	0.40	0.49	0.49	0.58	0.58
Air Flow Rate (H/M/L)		m³/min	7.5/6/4.5	7.5/6/4.5	7.5/6/4.5	9/6/5	9/6/5	9/6/5	10/8/6	10/8/6	14.5/12.5/8	14.5/12.5/8	16.5/14.5/10	16.5/14.5/10
ESP	Standard (min~max)	Pa	10(0/10)	10(0/10)	10(0/10)	10(0/10)	10(0/10)	10(0/10)	10(10/30)	10(10/30)	10(10/30)	10(10/30)	10(10/30)	10(10/30)
Dimension	Unit (H×W×D)	mm	192×700×450	192×700×450	192×700×450	192×700×450	192×700×450	192×700×450	192×910×450	192×910×450	192×1180×450	192×1180×450	192×1180×450	192×1180×450
Weight	Net Weight	kg	16	16	16	17	17	17	21	21	25	25	25	25
Air Outlet Size		mm	540×130	540×130	540×130	540×130	540×130	540×130	750×130	750×130	1020×130	1020×130	1020×130	1020×130
Air Inlet Size		mm	545×171	545×171	545×171	545×171	545×171	545×171	759×171	759×171	1029×171	1029×171	1029×171	1029×171
Refrigerant Type		-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)	H/M/L	dB(A)	33/28/25	33/28/25	33/28/25	36/29/25	36/29/25	36/29/25	36/30/26	36/30/26	38/33/27	38/33/27	39/34/30	39/34/30
Connections		-	Flare-Nut Connection (with Flare Nuts)								Flare-Nut Connection (with Flare Nuts)			
Piping	Liquid/Gas	(φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88
	Drainage	mm	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Packaging Volume		m³	0.14	0.14	0.14	0.14	0.14	0.14	0.18	0.18	0.22	0.22	0.22	0.22

NOTES:
1. The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
35°C DB (95°F DB)
Heating Operation Conditions
Outdoor Air Inlet Temperature: 20°C DB (68°F DB)
Indoor Air Inlet Temperature: 7°C DB (45°F DB)
Outdoor Air Inlet Temperature: 6°C WB (43°F WB)
Piping Length: 7.5m
Piping Lift: 0m
2. The sound pressure level is based on following conditions.
1.5 Meters Beneath the Unit.
With Discharge Duct (2.0m) and Return Duct (1.0m).
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 dB. 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.

Optional Drain-Pump lift as below
High ESP / Medium ESP: 900mm
Low ESP: 750mm

OTHERS

Floor Concealed

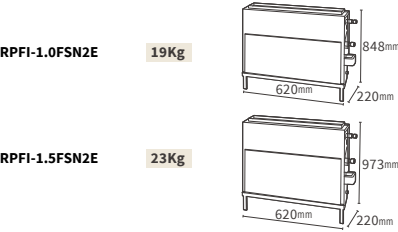


Features

- Little installation space required thanks to only 220mm depth
- Only suction and discharge grilles visible (indoor aesthetics remains)



Dimensions



Model			RPFI-1.0FSNQ	RPFI-1.5FSNQ	RPFI-2.0FSNQ	RPFI-2.5FSNQ
Power Supply			AC1φ,220-240V/50Hz			
Nominal Cooling Capacity		kW	2.8	4.3	5.6	7.1
		kcal/h	2,400	3,700	4,800	6,100
		Btu/h	9,600	14,700	19,100	24,200
Nominal Heating Capacity		kW	3.3	4.9	6.5	8.5
		kcal/h	2,800	4,200	5,600	7,300
		Btu/h	11,300	16,700	22,200	29,000
Sound Pressure Level	Hi-Me-Lo	dB(A)	37-34-31	40-38-35	42-38-36	45-43-40
Dimensions	H×W×D	mm	620×900×202			
Net Weight		kg	18	22	26	27
Refrigerant			R410A			
Air Flow Rate	Hi-Me-Lo	m³/min	8-7-6	10-8-7	14.5-12.5-10.5	16-14-12
Motor		W	16	25	40	45
Connections		-	Flare-Nut Connection (with Flare Nuts)			
Piping	Liquid	mm(in.)	φ6.35 (1/4)		φ6.35 (1/4)	φ9.52 (3/8)
	Gas	mm(in.)	φ12.7 (1/2)		φ15.88 (5/8)	φ15.88 (5/8)
	Condensate Drain				VP25	
Approximate Packing Measurement		m³	0.19	0.23		

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)
6°C WB (43°F WB)
Outdoor Air Inlet Temperature:
Piping Length: 7.5 Meters
Piping Lift: 0 Meter

2. The sound pressure level is based on following conditions.
1 meter from the unit and 1 meter from floor level.
Ceiling use: 1 meter beneath the Unit and 1 meter from Discharge Grille.
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 1dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Floor / Ceiling Convertible



Features

- Fully floor <=> Ceiling convertible
- Easy installation
- Drain-pump (optional)
- Fresh air in-take design

[Floor use]

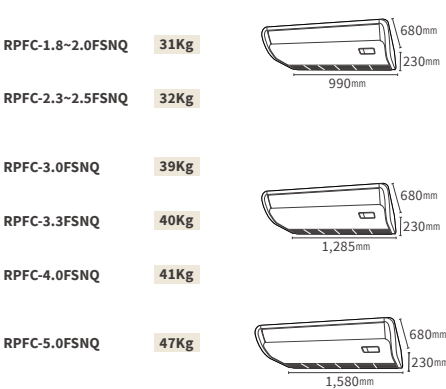
- Smaller footprint: Only 230mm in depth
- Suitable for installation beneath a window thanks to the 680mm height

[Ceiling use]

- Supplies air to a wide area
- High ceiling use capability



Dimensions



Model			RPFC-1.8FSNQ	RPFC-2.0FSNQ	RPFC-2.3FSNQ	RPFC-2.5FSNQ	RPFC-3.0FSNQ	RPFC-3.3FSNQ	RPFC-4.0FSNQ	RPFC-5.0FSNQ
Indoor Unit Power Supply			AC 1Φ , 220-240V/50Hz, 220V/60Hz							
Nominal Cooling Capacity		kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
		kcal/h	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200
		Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
Nominal Heating Capacity		kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
		kcal/h	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000
		Btu/h	19,100	22,000	25,600	29,000	32,800	34,100	44,400	55,600
Sound Pressure Level (Overall A Scale)		dB	(ceiling) 39-35-30 (Floor) 43-38-35	(ceiling) 39-35-30 (Floor) 43-38-35	(ceiling) 45-41-37 (Floor) 48-44-40	(ceiling) 45-41-37 (Floor) 48-44-40	43-39-34 46-41-37	45-40-36 48-43-39	51-46-40 54-49-43	50-46-42 55-50-46
Outer Dimensions	Height	mm(in.)	230(9)	230(9)	230(9)	230(9)	230(9)	230(9)	230(9)	230(9)
	Width	mm(in.)	990(39)	990(39)	990(39)	990(39)	1,285(50-3/5)	1,285(50-3/5)	1,285(50-3/5)	1,580(62-1/5)
	Depth	mm(in.)	680(26-3/4)	680(26-3/4)	680(26-3/4)	680(26-3/4)	680(26-3/4)	680(26-3/4)	680(26-3/4)	680(26-3/4)
Net Weight		kg(lbs.)	31(68)	31(68)	32(70)	32(70)	39(86)	40(88)	41(90)	47(103)
Refrigerant			R410A(Nitrogen-Charged for Corrosion-Resistance)							
Indoor Fan	Air Flow Rate (Hi/Me/Lo)	m³/min	780/660/540 (459/389/318)	780/660/540 (459/389/318)	966/840/678 (569/495/399)	966/840/678 (569/495/399)	1,092/912/732 (643/537/431)	1,164/978/798 (685/576/470)	1,488/1,230/978 (876/724/576)	1,980/1,680/1,380 (1,166/989/812)
Motor		W	40	40	70	70	70	80	130	160
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.53(3/8)	Φ 9.53(3/8)	Φ 9.53(3/8)	Φ 9.53(3/8)
	Gas Line	mm(in.)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)
Condensate Drain			VP25							
Approximate Packing Measurement		m³	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.40

NOTES:

1. The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

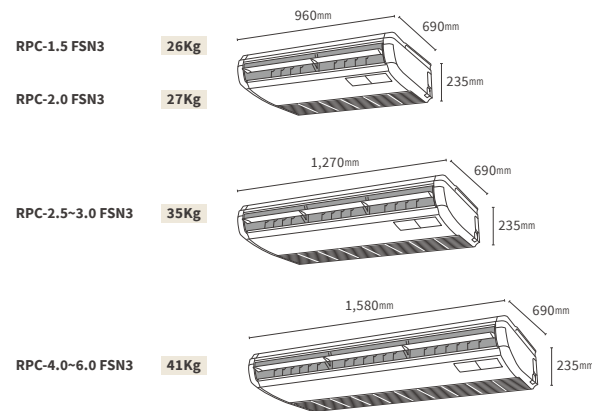
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)
6°C WB (43°F WB)
Outdoor Air Inlet Temperature:
Piping Length: 7.5 Meters
Piping Lift: 0 Meter

2. The sound pressure level is based on following conditions.
1 meter from the unit.
1 meter from floor level.
Voltage of the power source for the indoor fan motor is 220V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Wired Controller (JCWA10NEQG) connection will be available after March 2018.

Ceiling Suspended



Dimensions



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 Cooling Capacity	kW(Btu/h)	4.0(13,600)	5.6(19,100)	7.1(24,200)	8.0(27,300)	11.2(38,200)	14.0(47,800)	16.0(54,600)
Nominal Heating Capacity	kW(Btu/h)	4.8(16,400)	6.3(21,500)	8.5(29,000)	9.0(30,700)	12.5(42,600)	16.0(54,600)	18.0(61,400)
Sound Pressure Level (Overall A Scale) (Hi2/Hi/Me/Lo)	dB	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
Cabinet Color		Neutral White						
Outer Dimensions	Height	mm(in.)	235(9-1/4)	235(9-1/4)	235(9-1/4)	235(9-1/4)	235(9-1/4)	235(9-1/4)
	Width	mm(in.)	960(37-4/5)	960(37-4/5)	1270(50)	1270(50)	1580(62-1/5)	1580(62-1/5)
	Depth	mm(in.)	690(27-1/5)	690(27-1/5)	690(27-1/5)	690(27-1/5)	690(27-1/5)	690(27-1/5)
Net Weight	kg(lbs.)	26(57)	27(60)	35(78)	35(78)	41(91)	41(91)	41(91)
Refrigerant		R410A						
Indoor Fan	Air Flow Rate	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(1236
	(Hi2/Hi/Me/Lo)	(l/s)	(530/459/388/318)	(530/459/388/318)	(671/582/494/406)	(741/653/547/441)	(1059/935/777/600)	/1094/900/706) /1147/953/741)
Motor	W	50	50	80	80	160	160	160
Connections		Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping	Liquid Line	mm(in.)	Φ 6.35(1/4)	Φ 6.35(1/4)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 9.52(3/8)
	Gas Line	mm(in.)	Φ 12.7(1/2)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)	Φ 15.88(5/8)
	Condensate Drain		VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing Measurement	m³	0.23	0.23	0.31	0.31	0.38	0.38	0.38

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°C DB (80°F DB)
Indoor Air Inlet Temperature:	19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature:	35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature:	20°C DB (68°F DB)
Outdoor Air Inlet Temperature:	7°C DB (45°F DB)
Outdoor Air Inlet Temperature:	6°C WB (43°F WB)

Piping Length:7.5 Meters

Piping Lift:0 Meter

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

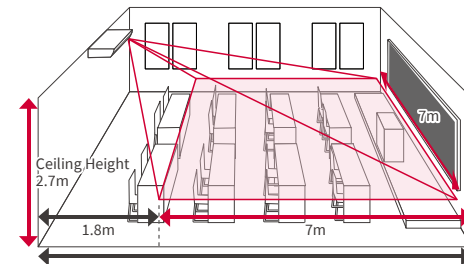
1.5 Meters Beneath the Unit.

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

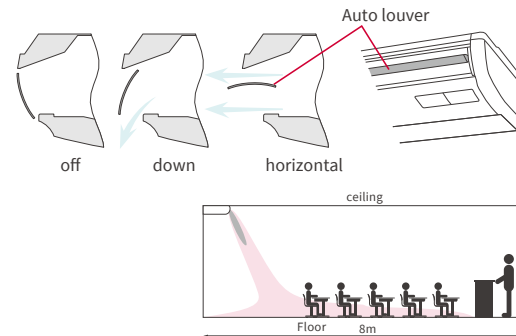
FEATURES AND BENEFITS

Adaptability

1) Wide Detection area of motion sensor

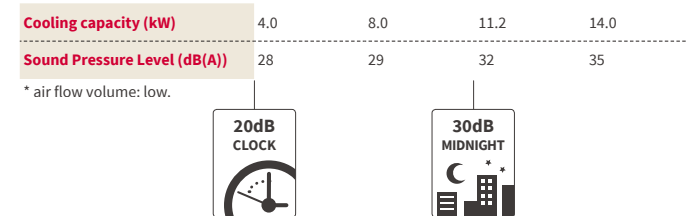


2) Auto louver



3) Quiet operation

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



OPTIONAL PARTS

Please consult your distributors or dealers in inquiry

Filter (for box):

- Antimicrobial high-performance filters
Please use these filters in offices, hospitals and welfare facilities for the elderly.
- Deodorizing filters
Please use these filters for locations where general living odors (ammonia odor, etc.) are bothersome, hospitals and welfare facilities for the elderly. The filters can be dried in the sunshine and can also be washed in water. (Lifespan of around three years)

Receiver Kit:

For Remote Controller (PC-AWR)

Motion Sensor Kit

Filters (for panels):

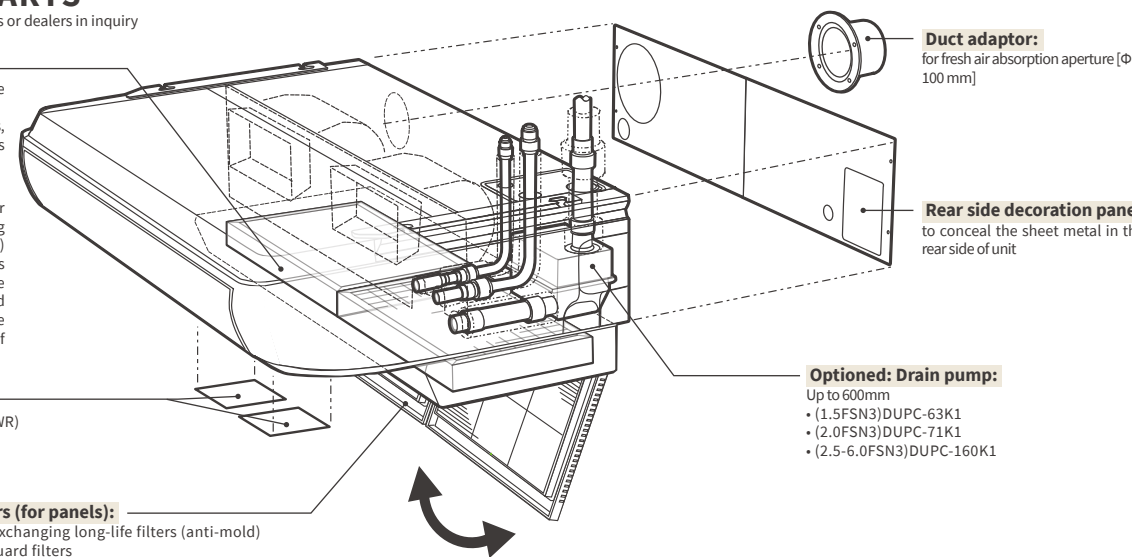
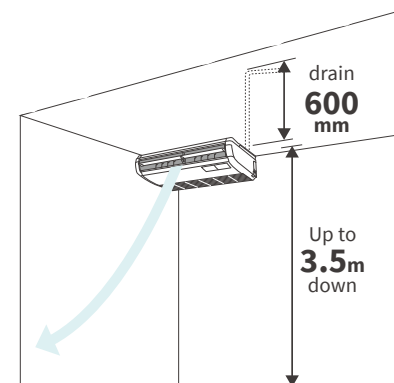
- For exchanging long-life filters (anti-mold)
- Oil guard filters

Design Flexibility

1) High Ceiling Available

IDU Capacity HP(Class)	1.5-3.0	4.0-6.0
Height (m)	3.5	4.3

* air flow volume: high



Wall Mounted



Features

- Easy installation
- Simple design matching with any interior
- quiet operation (minimum 29 dB(A))

Model		RPK-0.8FSNQs	RPK-1.0FSNQs	RPK-1.3FSNQs	RPK-1.5FSNQs	RPK-1.8FSNQs	RPK-2.0FSNQs	RPK-2.3FSNQs
Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	2.2	2.8	3.6	4	5	6.3
	Heating	kW	2.5	3.3	4	4.5	5.6	7.1
Power Input	W	30	30	30	40	50	50	60
Current	Normal	A	0.2	0.2	0.2	0.2	0.3	0.3
Air Flow Rate(H/M/L)		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	13.7/12/10.3
Dimension	Unit (W×H×D)	mm	780×280×220	780×280×220	780×280×220	780×280×220	1050×290×220	1050×290×220
Weight	Unit	kg	10	10	10	10	12.5	12.5
Refrigerant Type	-		R410A	R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)	H/M/L	dB(A)	38/36/32	38/36/32	41/38/36	41/38/36	42/39/35	45/42/39
Connections			Flare-Nut Connection (with Flare Nuts)					
Piping	Liquid/Gas	(φ)mm	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7
Packaging Volume	Drainage	mm	VP16	VP16	VP16	VP16	VP16	VP16
		m³	0.12	0.12	0.12	0.12	0.16	0.16

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°C DB (80°F DB)

Outdoor Air Inlet Temperature: 19.0°C WB (66.2°F WB)

35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)

Outdoor Air Inlet Temperature: 7°C DB (45°F DB)

6°C WB (43°F WB)

Piping Length:7.5 Meters

Piping Lift:0 Meter

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

1.5 Meters 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.

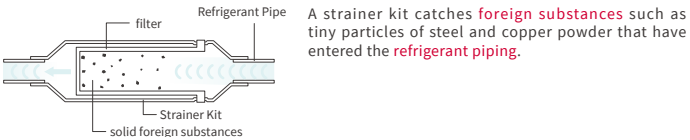
STRAINER KIT

Model	IDU to be installed		
MSF-NP112A1	RPK	2.5-4.0	FSN3M

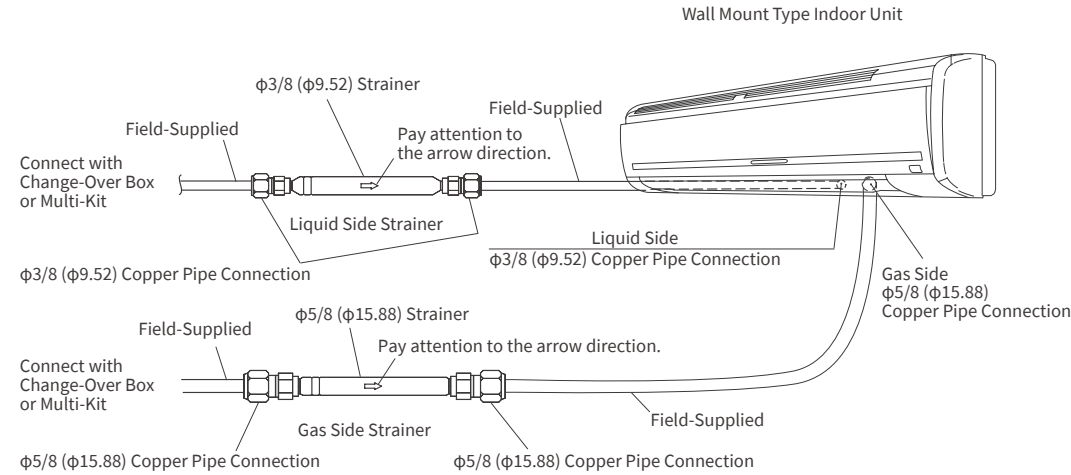
What it is?

For the running of the cooling functions in VRF, the electric expansion valves of an indoor unit that is not in operation are fully closed. But if solid foreign substances enter the refrigerant piping at the time of installation, those solid foreign substances sometimes become stuck between the valve parts of the electric expansion valves, which prevents the valves from being completely closed (slightly opening); as a result, a small amount of refrigerant gas runs through the heat exchanger of an indoor unit that is not in operation and cools the heat exchanger. In addition, for a wall-mounted indoor unit, there were occasional cases in which the cooling of the fan beneath a heat exchanger caused dew condensation, and the condensed dew exploded from an aperture when the unit was put into operation. The unit therefore ensures that the solid foreign substances are caught without fail just before the electric expansion valves of a wall-mounted indoor unit, even if such solid foreign substances should have entered the Refrigerant pipes.

How it works?



MSF-NP112A1



Insulate all the refrigerant piping to prevent condensation. If piping is exposed to the ambient atmosphere, dew condenses over the piping surface and water drips. In an instance where the piping size does not correspond with the strainer kit, use a reducer(field-supplied).

Ventilation

Fresh Air Unit



Model			RPI-5.0KFNQ		RPI-8.0KFNQ		RPI-10.0KFNQ		RPI-12.0KFNQ	
Power Supply			AC 1Φ 220-240V/50Hz	AC 1Φ 220V/60Hz	AC 1Φ 220-240V/50Hz	AC 1Φ 220V/60Hz	AC 1Φ 220-240V/50Hz	AC 1Φ 220V/60Hz	AC 3Φ 380-415V/50Hz	AC 3Φ 380V/60Hz
Connectable Outdoor Unit			SET FREE Σ Heat Pump Type FSNS / FSNP Series						RAS-12FSNS/P	
Cooling	Capacity	kW	14.0		22.4		28.0		33.5	
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Heating	Capacity	kW	13.7		21.9		24.5		26.8	
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Sound Pressure Level	(overall a scale)	dB(A)	42		44		47		56	
Dimensions	H×W×D	mm	370 × 1320 × 800		486 × 1270 × 1069		486 × 1270 × 1069		486 × 1270 × 1069	
Net Weight		kg	63		110		110		110	
Refrigerant									R410A	
Air Flow Rate	m3/min		18		28		35		50	
External Pressure	Pa		200		220		220		220	
Piping	Liquid	mm	Φ 9.53		Φ 9.53		Φ 9.53		Φ 12.7	
	Gas	mm	Φ 15.88		Φ 19.05		Φ 22.2		Φ 25.4	
	Condensate Drain		VP25, Outer Diameter: Φ 32mm							
Temperature Range of Fresh Air Drawn			Cooling: 20°C ~ 43°C, Heating: -7°C ~15°C							

Model			RPI-16.0KFNL		RPI-16.0KFNH		RPI-20.0KFNL		RPI-20.0KFNH		RPI-20.0KFNLF		RPI-20.0KFNHF	
Power Supply			AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/60Hz
	Connectable Outdoor Unit		RAS-16FSNS/P				RAS-20FSNS/P							
Cooling	Capacity	kW	45.0		45.0		56.0		56.0		56.0		56.0	
	Power	kW	0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6	1.39	1.60	1.72	1.98
	Nominal Current	A	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
Heating	Capacity	kW	36.0		36.0		44.8		44.8		44.8		44.8	
	Power	kW	0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6	1.39	1.60	1.72	1.98
	Nominal Current	A	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
Sound Pressure Level	(overall a scale)	dB(A)	58		62		61		65		63		67	
Dimensions	H×W×D	mm	635 × 1950 × 805		635 × 1950 × 805		735 × 1950 × 805		735 × 1950 × 805		735 × 1950 × 805		735 × 1950 × 805	
Net Weight		kg	196		196		222		222		222		222	
Refrigerant			R410A											
Air Flow Rate		m³/min	67		67		83		83		100		100	
External Pressure		Pa	200		300		200		300		200		300	
Piping	Liquid	mm	Φ 12.7		Φ 12.7		Φ 15.88		Φ 15.88		Φ 15.88		Φ 15.88	
	Gas	mm	Φ 25.4		Φ 25.4		Φ 28.6		Φ 28.6		Φ 28.6		Φ 28.6	
	Condensate Drain		RC1 (Internal Screw)											
Temperature Range of Fresh Air Drawn							Cooling: 20°C ~ 43°C, Heating: -7°C ~ 15°C							

- NOTES:
- Cooling capacity and heating capacity test in the following conditions:
Cooling conditions: 33°CDB, 28°CWb, pipeline length 7.5m, pipe height difference 0.0m
Heating conditions: 0°CDB, -2.9°CWb, pipeline length 7.5m, pipe height difference 0.0m (heating is the data without defrosting)
 - Noise test conditions are as follows:
At a distance of 1.5m 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.
 - Fresh air processing unit should be connected with SET FREE Σ Heat Pump Type outdoor unit.
When fresh air processing unit and other indoor units air all connected to the same SET-FREE outdoor unit, Its equivalent cooling capacity is calculated by the following criteria:
Type_5HP: 21.0kW; 8HP: 33.3kW; 10HP: 42.0kW
 - Refer to capacity restrains shown on Table below for indoor unit capacity connectable to outdoor unit.

System	All Fresh Air Unit System (Only All Fresh Air Unit)	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°C in cooling operation, the system will be automatically converted to ventilation operation.
When outdoor temperature is higher than 15°C in heating operation, it will be automatically converted to ventilation operation. When lower than -7°C, the fresh air processing unit will stop running.

TOTAL HEAT EXCHANGER

データ未支給

Optional Parts

Optional Parts

Cassette

4-way cassette

Decoration panel	(Included)
Motion Sensor	PS-MSK2
Wireless receiver kit	PC-ALH3

2-way cassette

Decoration panel	2.2-8.0 kW	P-AP90DNA
	11.2-16.0 kW	P-AP160DNA
Wireless receiver kit		PC-ALHD1
Motion Sensor		SOR-NED
Drille for Front Discharge	2.2-8.0 kW	F-90MD-K1
	11.2-16.0 kW	F-160MD-K1
Air Outlet Shutter Plate	2.2-8.0 kW	B-90HD
	11.2-16.0 kW	B-160HD
Duct Adapter		PD-150D

4-way cassette compact

Decoration panel	P-AP56NAM
Wireless receiver kit	PC-ALHC1
Duct Adapter	PD-75C
Motion Sensor	SOR-NEC

1-way cassette

Decoration panel	2.2-2.8 kW	P-AP36CNA
	4.0-5.6 kW	P-AP56CNA
	7.1-8.0 kW	P-AP80CNA
Wireless receiver kit		PC-ALHS1
Motion Sensor		SOR-NES
Drille for Front Discharge	2.2-5.6 kW	DG-56SW1
	7.1-8.0 kW	DG-80SW1
Air Outlet Shutter Plate	2.2-5.6 kW	PIS-56LS
	7.1-8.0 kW	PIS-80LS
Duct Adapter		PD-100

DuctedZ

both 220V Ducted & 240V Ducted

Receiver Kit	PC-ALHZ1
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For 240V Ducted

Optional Drain Pump for High/Meidum/Low ESP type

Model	DUPI-132CQ	DUPI-162Q	DUPI-15H2Q
kW (Cooling)	2.2-7.1	8.4-16.0	22.4-28.0
HP Class	0.8-2.5	3.0-7.0	8.0-10.0

Model	KW-PP1Q	KW-PP2Q	KW-PP3Q	KW-PP4Q
Type	Medium ESP	Medium ESP	High ESP	High ESP
	Low ESP	Low ESP	Low ESP	Low ESP
kW (Cooling)	2.2-4.3	5.0-7.1	8.4-11.2	14.2-16.0
HP Class	0.8-1.5	1.8-2.5	3.0-4.0	5.0-6.0

Model Name	KW-PP5Q	KW-PP6Q
Type	Compact	Compact
kW (Cooling)	2.2-4.3	5.0-7.1
HP Class	0.8-1.5	1.8-2.5

Others

Wall mounted

Receiver Kit		PC-ALHZ1
Expansion Valve kit		EV-1.5N1
	1.8-5.8 kW	MSF-NP63A1
Strainer kit	7.3-11.6 kW	MSF-NP112A1
	FSNH3M	MSF-NP36AH1

Ceiling/Floor convertible

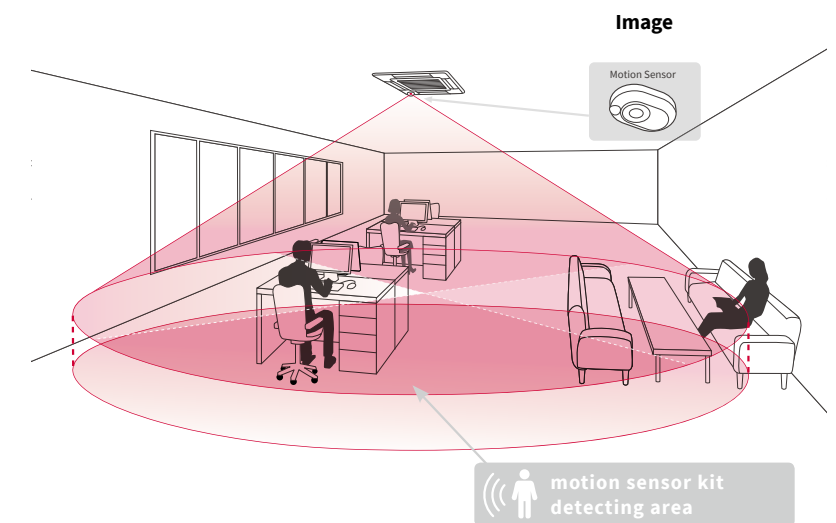
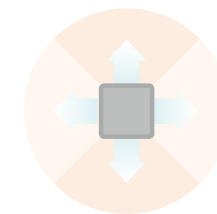
Receiver Kit	PC-ALHZ1
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Floor concealed

Receiver Kit	PC-ALHZ1
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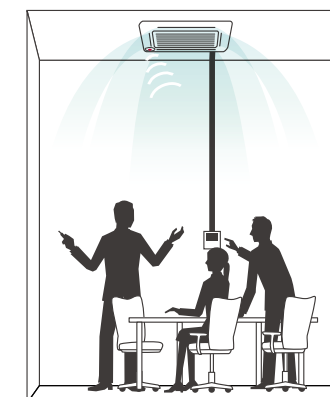
Introduction of Motion Sensor Kit

Senses the amount of human activity, undertakes automatic saving and achieves intelligent energy saving

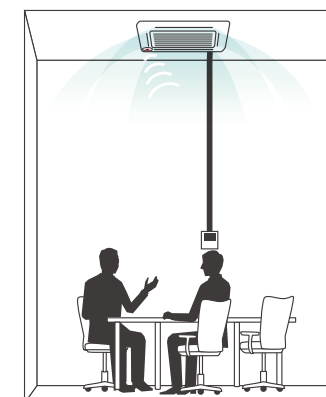


Saving Energy

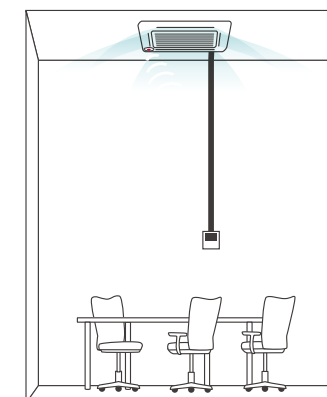
Perceives the amount of human activity and undertakes automatic saving



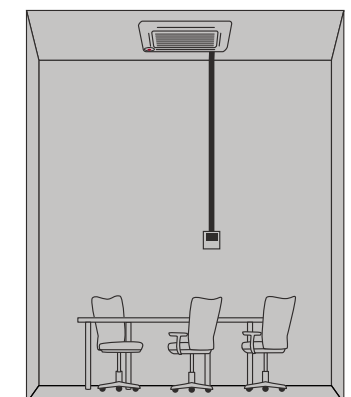
Standard operation for a room with a lot of human movement.



Moderate operation for a room with little human movement.



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



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 Name

Motion Sensor Kit	Indoor Unit
P-AP160NAE	4-way cassette
SOR-NEC	4-way cassette compact
SOR-NED	2-way cassette
SOR-NES	1-way cassette

Motion Sensor Kit	Indoor Unit
SOR-NEZ	Ducted High ESP
SOR-NEZ	Ducted Medium ESP
SOR-NEP	Ceiling Suspended



-
INDEX
-

Controllers

53 INDIVIDUAL CONTROL SYSTEMS

- 53 PC-ARF1
- 55 HCRB10NEWQ
 PC-LH3A
- 56 Receiver kit
 AAAAAAAAA

57 CENTRALIZED CONTROL SYSTEMS

- 57 mini
 EZ
- 58 PSC-A128EX
 PSC-A64S

INDIVIDUAL CONTROL SYSTEMS

PC-ARF1 ADVANCED WIRED REMOTE CONTROLLER

Specifications

Outer Dimensions (H*W*D)

(mm) 120.0 * 120.0 * 17.9

(inch) 4.72 * 4.72 * 0.70

Net Weight

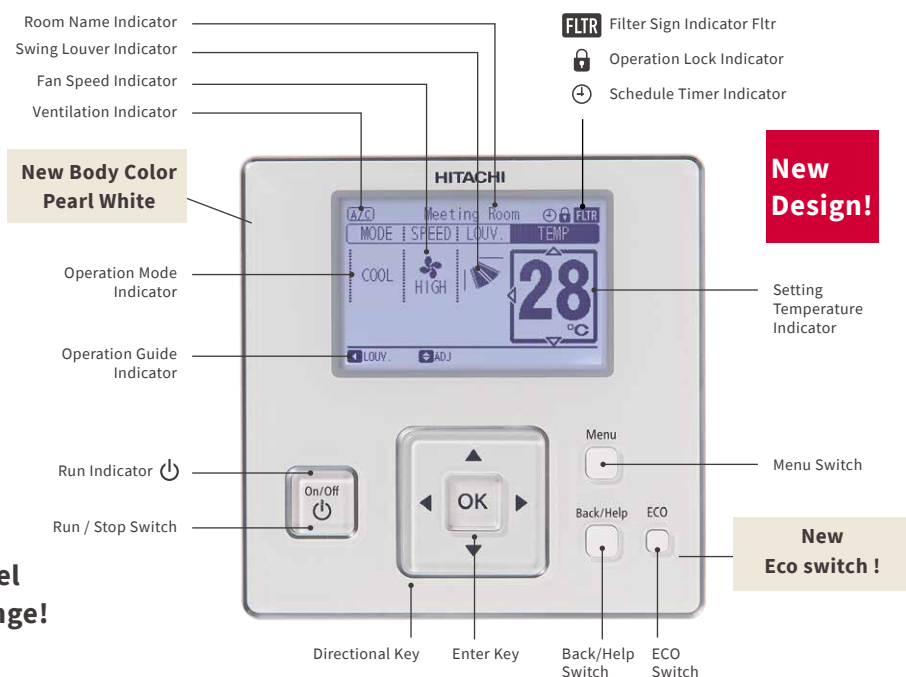
200 g

1/2 lbs

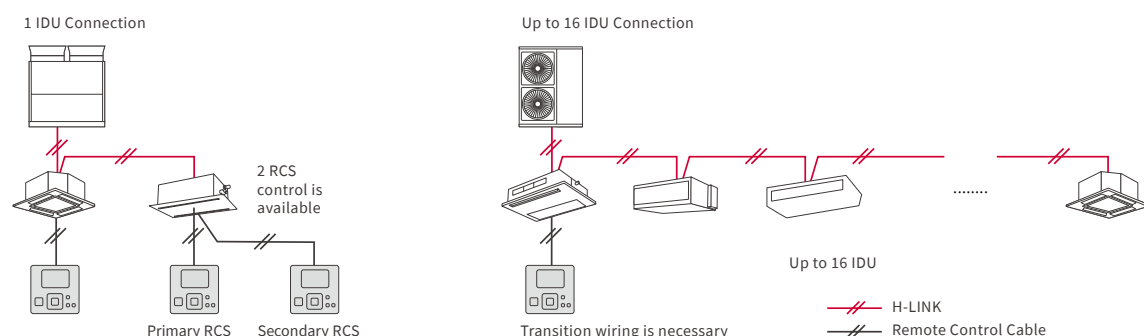
PC-ARF



Model Change!



Example of System Configuration

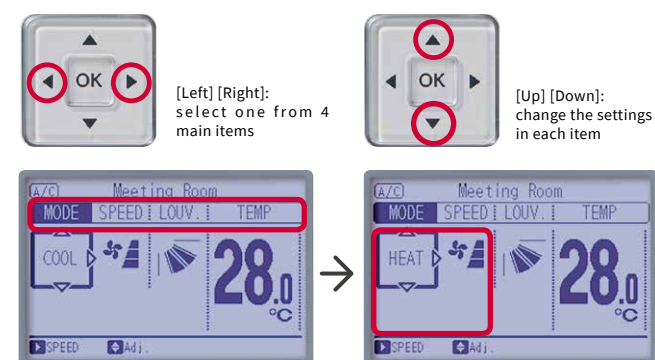


Setting	Run/Stop	Screen Adjustment
	Operation Mode	Language
	Auto Mode Setting	Temperature Unit - °C / °F
	Temperature Setting	Adjusting Brightness of Run Indicator
	Temperature Setting Rate _ °C (0.5/1) _ °F(1) New	Sensor Condition Check
	Fan Speed _ 3/4 Taps	Sensor Data Check
	Louver Direction	Model Display
	Individual Louver Setting	Indoor / Outdoor PCB Check
	Remote Control Primary-Secondary Setting	Self Checking
	In Use of Total-Heat-Exchanger	Alarm History Display
Service	Automatic Restart with Eco-operation	Test Run
	Automatic Reset Temperature (Cooling / Heating)	Function Selection (Optional Function Setting)
	Temperature Indication	Thermistor Selection
	Filter Sign	Input/Output Setting
	Filter Sign Reset	Indoor Unit Address Change
	Louver Open / Close	Indoor Unit Address Checking Operation
	Room Name Setting	Indoor Unit Address Initialization
	Alarm Sign	Input-Output Setting Initialization
		Compressor Pre-Heat Control Cancellation
		Contact Information Registration
Management	Operation Lock / Set	With Motion Sensor Kit
	Main / Sub Control New	ODU Capacity Control
	Built-in-Timer (on/off)	• Peak Shaving Control New
	Adjusting Date / Time Setting	• Proper Limit Control
	Thermometer Indication New	Indoor Unit Rotation Control New
		Automatic Fan Operation New
		Auto Recovery of Temperature
		Upper Limit for Heating Operation
		Lower Limit for Cooling Operation
		Power Consumption Visualization New
Power-Saving		Weekly Schedule
		Settable Timer Operation Times (per day): 5
		Holiday Setting
		Schedule On / Off
		ODU Noise Reduction Schedule New
Schedule		

SIMPLE OPERATION

Directional Key

4 main items [Mode] [Speed] [Louver] [Temperature]



New

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.



ADAPTABILITY

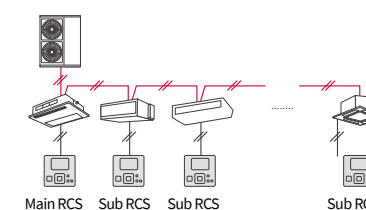
New

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



New

Temperature Setting Rate

Setting available in 0.5 / 1.0 °C or 1.0 °F.



Alarm code check

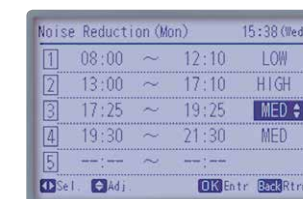
Contact address shown in the same display.



New

ODU silent mode

Set in the weekly schedule by 5 times.



New

Thermometer function

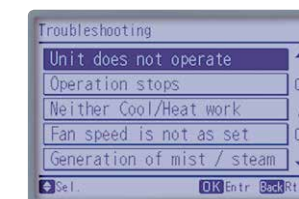
Current temperature can be displayed anytime, without being in maintenance mode.

*Thermometer can be chosen out of 4 sensors (Air inlet, Air outlet, Remote controller and Remote Sensor (THM-R2A))

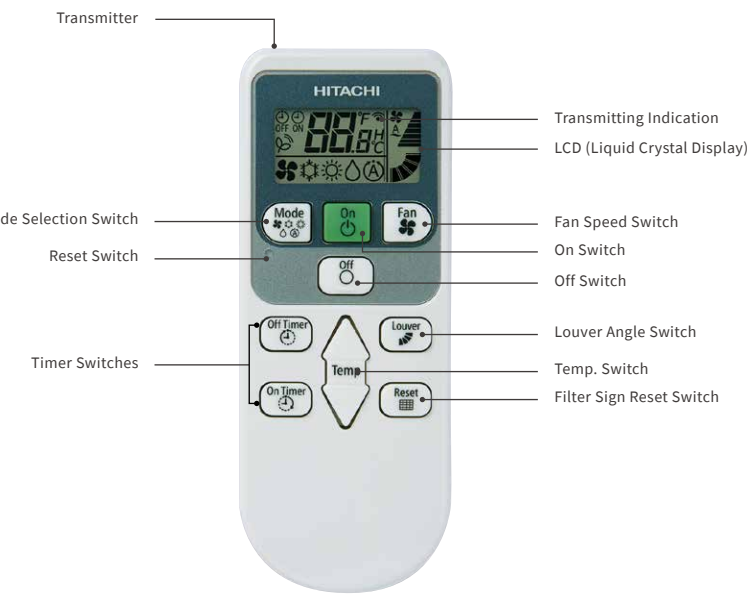


Help Menu

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

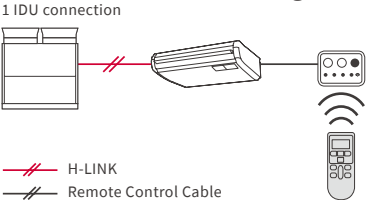


HCRB10NEWQ WIRELESS REMOTE CONTROLLER



Specifications	
Outer Dimensions (H*W*D)	
(mm)	140.0 * 55.0 * 16.8
(inch)	5.51 * 2.17 * 0.66
Net Weight	
	75 g
	1/6 lbs
Setting	Run / Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate _ 1°C / 1°F
	Fan Speed _ 3 / 4 Taps
Service	Louver Direction
	Filter Sign Reset
	Identifying indoor units side-by-side
Schedule	Temperature Unit - °C / °F
	Built-in Timer (On / Off)

Example of System Configuration



PC-LH3A WIRELESS REMOTE CONTROLLER

▶ See "Next Page : Receiver Kit"



Specifications	
Outer Dimensions (H*W*D)	
(mm)	125.0 * 56.0 * 16.4
Setting	Run / Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate _ 1°C
	Fan Speed _ 3 Taps
Service	Louver Direction
	Identifying indoor units side-by-side
	Temperature Unit _ 1°C
Schedule	Built-in Timer (On / Off)

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

Receiver kit FOR WIRELESS REMOTE CONTROLLER (PC-AWR)

Receiver Kit	Model	PC-ALH3	PC-ALHC1	PC-ALHD1	PC-ALHS1	PC-ALHZ1	Standard: PC-RLH11 (Optioned: PC-ALHZ1)"	PC-ALHZ1	PC-ALHP1	Standard: PC-RLH11 (Optioned: PC-ALHZ1)"
	Category	Ceiling Cassette				Ducted		Others		
Indoor Unit	Description	4-way cassette	4-way cassette compact	2-way cassette	1-way cassette	220V	240V	Floor/ceiling convertible Wall mounted (7.1-11.2kW)	Ceiling suspended	Floor concealed Wall mounted (2.2-6.3kW)
	Model	RCI-FSKDNQ	RCIM-FSN4	RCD-FSN3	RCS-FSN	RPIH-HNGUAQ RPIM-HNGUAQ RPIZ-FSNQ RPIZ-FSNQ	RPI-FSNQH RPI-FSNQL RPIZ-FSNQS RPIZ-FSN1Q RPI-FSN(3)Q	RPFC-FSNQ RPK-FSN3M	RPC-FSN3	RPFI-FSNQ RPK-FSNQS
	Compatible wireless remote controller	HCRB10NEWQ	PC-LH3A							

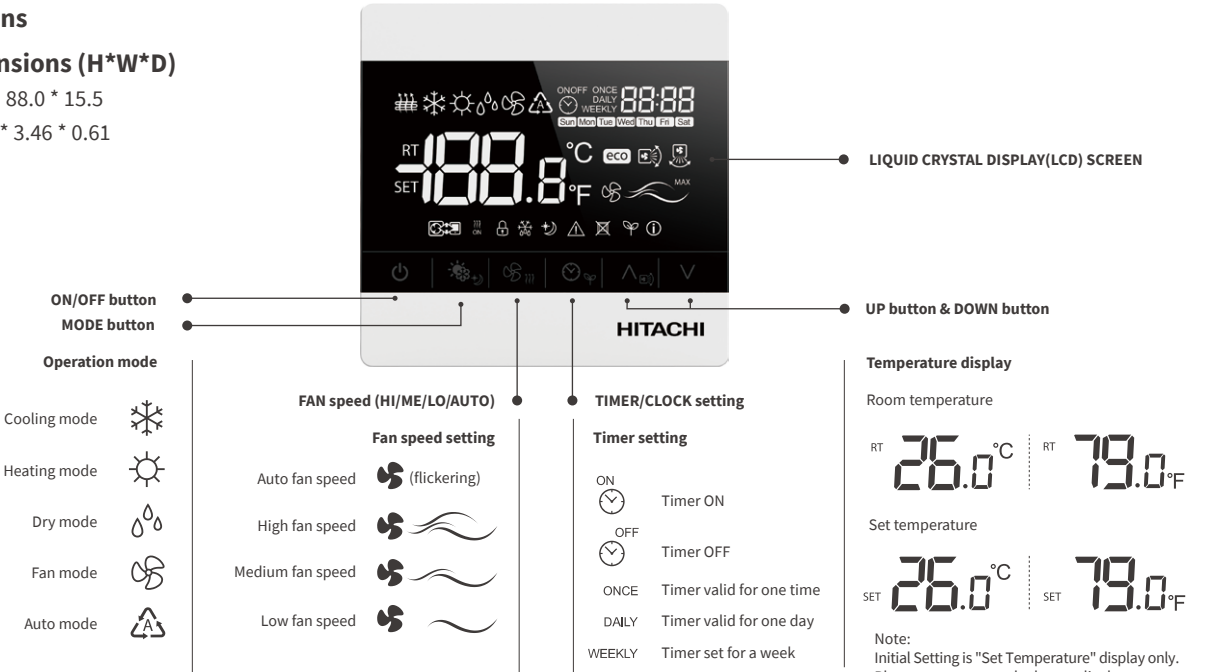
*Centralized controller (Central Station EX/ EZ/ mini) cannot be operated when you use standard receiver kit (PC-RLH11) exquipped with wireless remote controller (PC-LH3A)

AAAAAAAAAAAAA WIRED REMOTE CONTROLLER

Specifications

Outer Dimensions (H*W*D)

(mm) 88.0 * 88.0 * 15.5
(inch) 3.46 * 3.46 * 0.61



CENTRALIZED CONTROL SYSTEMS

mini Central Station PSC-A32MN FOR SMALL-SCALE BUILDINGS



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.

CAPACITY

Remote Controller 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 PowerConsumption	20W (Max.)
Communication Unit	Units of Adopting for H-LINK II
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	- Run/Stop/Abnormality - RCS Operation Prohibited Setting - Accumulated Operating Time - Operation Mode - Setting Louver - Setting Temperature - Setting Fan Speed - Filter Sign - Alarm Code"
Control Function	- Run/Stop" - Operation Mode - Temperature Setting - RCS Operation Prohibited - Filter Sign Reset"

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

EZ Central Station PSC-A64GT FOR MEDIUM-SCALE BUILDINGS



Eazy 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.

CAPACITY

Remote Controller 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 PowerConsumption	30W (Max.)
Communication Unit	Units of Adopting for H-LINK II
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	- Run/Stop/Abnormality - RCS Operation Prohibited Setting - Accumulated Operating Time - Operation Mode - Setting Louver - Setting Temperature - Setting Fan Speed - Filter Sign - Alarm Code
Control Function	- Run/Stop" - Operation Mode - Temperature Setting - RCS Operation Prohibited - Filter Sign Reset

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

PSC-A128EX Central Station EX



Brand-new centralized controller, Central Station EX, for Medium-Large scale building. With 12.1 inch screen of 7-degrees of size with user-friendly colorful panel, you can control and monitor air-conditioning system up to 2560 indoor units, which leads to the better energy-saving management.

CAPACITY

H-LINK	16
Remote controller group	2048 (*1)
Group	2048 (*1)
Block	512 (*2)
Indoor unit	2560 (*1)
Outdoor unit	1024 (*1)
Building scale	Large

(*1) One external adapter can control [28 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

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

FUNCTIONS

Monitor Function	- On/Off - Mode - Set temperature - Air intake temperature - Outdoor temperature (*1) - RC prohibition - Filter sign/Auto cleaning fault - Alarm status/Alarm codes
Control Function	- On/Off - Mode - Set temperature - Louver - RC prohibition - Function selection for indoor units (*2) - Function selection for outdoor units (*3) - Capacity control for outdoor units (*3) - Lower noise control for outdoor units (*3)

(*1) This is the air intake temperature on representative outdoor unit.
(*2) Some indoor units may not fully support all functions.
(*3) Available for applicable outdoor units only

PSC-A64S Central Station



- 1)By connecting to the H-LINK, up to 64 remote control groups and 160 indoor units can be controlled.
Up to 8 controllers can be connected to the H-LINK.
- 2)In addition to basic controls such as settings for operation / stop,operation mode and temperature,air quantity and auto louver can be set.
If a problem occurs, an alarm code immediately shows the details of the problem.
- 3)An external input terminal is provided as standard.
External signals enable the following functions: central operation / stop, demand control,emergency stop, central operation output, and central alarm output.
- 4)Can be used in combination with the ON / OFF Controller.

Outer Dimensions (mm)		
H	W	D
120.0	120.0	70.5
Outer Dimensions (inch)		
H	W	D
4.72	4.72	2.78
Weight		
grams	pounds	
300 g	0.6 lbs	

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