

In accordance with F-Gas regulations, our new R32 Hitachi equipment hold the key to our commitment to the environment. Since 2013, we have been preparing for this revolution by developing R32 solutions in Japan.



— wall unit Mono-split



S-Premium



Shirokuma



Performance



Summit



Light Commercial



Utopia Prime wall unit

NEW



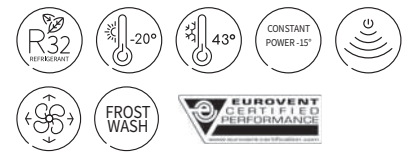
Selection guide

Indoor units

	 R32 REFRIGERANT		 airCloud					 FROST WASH	 CONSTANT POWER -15°		 SCOP	 SEER
	 R410A REFRIGERANT	Performance	Compatible with airCloud for Home	Ultra compact	Weekly programming	4-way Swing	Motion sensor	FrostWash	Down to -15°C	Self-cleaning filter robot		
 Mono (2.5 - 3.5 and 5.0 kW)	 R32 REFRIGERANT	++++	•	-	•	•	•	•	•	•	5.10	9.00
 Mono/Multi (2.5 - 3.5 and 5.0 kW)	 R32 REFRIGERANT	++++	•	-	•	•	•	•	•	-	5.20	8.70
 Mono/Multi (2.5 - 3.5 - 4.2 and 5.0 kW)	 R32 REFRIGERANT	+++	•	•	•	•	•	•	-	-	4.90	8.50
 Mono/Multi (1.8 - 2.5 - 3.5 and 5.0 kW)	 R32 REFRIGERANT	++	•	•	Option	-	-	•	-	-	4.30	6.10
 Light commercial wall unit	 R32 REFRIGERANT	+++	•	-	•	•	•	-	-	-	4.60	7.30
 NEW Utopia Prime wall unit 	 R32 REFRIGERANT  R410A REFRIGERANT	-	-	-	Option	-	-	-	-	-	-	-

S-Premium

For better air quality throughout the year, combining several exclusive and innovative features



RAK-PSEW



RAK-PSES

FrostWash

Automatically and regularly cleans the heat exchanger to emit pure, clean air. (Fig.1)

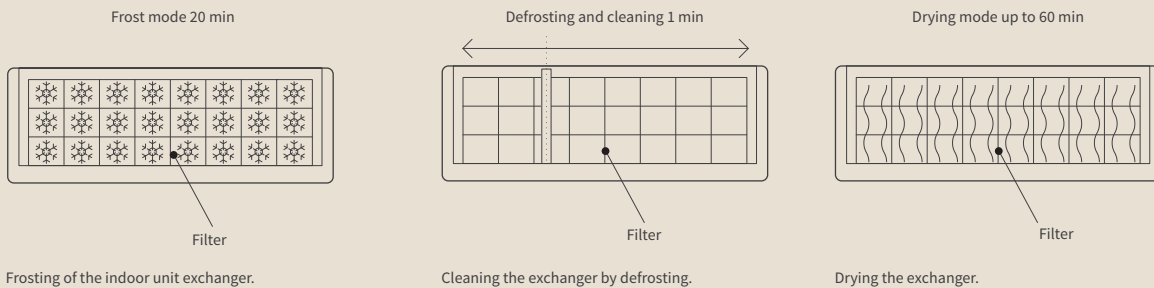
Stainless Clean

The S-Premium indoor unit is made of stainless steel, which reduces dust accumulation by 51% compared to plastic indoor units.

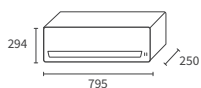
Auto filter Clean

Filters capture and dispose of ultrafine particles such as allergens and pollutants.

Fig. 1

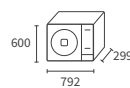


Indoor units

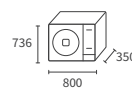


- RAK-25PSEW
- RAK-25PSES
- RAK-35PSEW
- RAK-35PSES
- RAK-50PSEW
- RAK-50PSES

Outdoor units



- RAC-25WSE
- RAC-35WSE



- RAC-50WSE

S-Premium

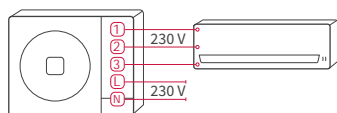
Performance, cooling	Unit	2.5 kW	3.5 kW	5.0 kW
Nominal cooling capacity (min-max)	kW	2.50 (0.50 - 3.40)	3.50 (0.50 - 4.10)	5.00 (1.90 - 5.20)
UK cooling capacity (UK sensible)	kW	2.50 (2.13)	3.35 (2.51)	4.77 (3.24)
Rated power input Cooling (min-max)	kW	0.490 (0.300 - 0.920)	0.778 (0.350 - 1.350)	1.389 (0.400 - 1.820)
EER	-	5.10	4.50	3.60
Energy class Cooling	-		A+++	A++
SEER (average climate)	-		9.00	7.50
Working range in Cooling	°C		-10°C / +43°C	
Performance, heating	Unit	2.5 kW	3.5 kW	5.0 kW
Nominal heating capacity (min-max)	kW	3.20 (0.60 - 5.80)	4.00 (0.60 - 6.60)	6.00 (2.20 - 7.00)
Heating capacity at -7°C ⁽¹⁾	kW	3.20	3.90	5.40
Rated power input Heating (min-max)	kW	0.621 (0.440 - 1.500)	0.800 (0.500 - 2.000)	1.622 (0.600 - 2.650)
COP	-	5.15	5.00	3.70
Energy class Heating	-		A+++	A++
SCOP (average climate)	-		5.10	4.70
Working range in Heating	°C		-20°C / +24°C	
Indoor units	Unit	RAK-25PSE(W/S)	RAK-35PSE(W/S)	RAK-50PSE(W/S)
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	22 / 28 / 34 / 41	22 / 29 / 36 / 43	25 / 31 / 38 / 46
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	22 / 28 / 34 / 42	22 / 29 / 36 / 44	25 / 31 / 38 / 48
Sound power in Cooling mode	dB(A)	55	57	60
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	270 / 320 / 420 / 510	270 / 340 / 440 / 540	300 / 400 / 490 / 590
Dehumidification	l/h	1.4	1.6	2.0
Dimensions (H x L x D)	mm	294 x 795 x 250	294 x 795 x 250	294 x 795 x 250
Net weight	kg		11	
Remote control	-		Weekly infrared (included)	
Outdoor units	Unit	RAC-25WSE	RAC-35WSE	RAC-50WSE
Sound pressure in Cooling mode ⁽²⁾	dB(A)	47	48	51
Sound power in Cooling mode	dB(A)	61	62	65
Airflow (Cooling / Heating)	m ³ /h	1860 / 1620	1920 / 1620	2160 / 2160
Dimensions (H x L x D)	mm	600 x 792 x 299		736 x 800 x 350
Net weight	kg		37	51
Compressor	-		Rotary	2-cylinder rotary
Refrigeration characteristics	Unit	2.5 kW	3.5 kW	5.0 kW
Diameter of pipes (Liq / Gas)	inches		1/4" / 3/8"	1/4" / 1/2"
Initial refrigerant charge	kg		0.98	1.3
Pre-charged for	m		20	30
Min. length	m		3	
Max. length / Additional charge	m/g/m		20 / -	30 / -
Max. level difference (outdoor unit above / outdoor unit below)	m		10 / 10	
Refrigerant	-		R32	
Electrical features	Unit	2.5 kW	3.5 kW	5.0 kW
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz		
Operating current (Cooling / Heating)	A	2.26 / 2.85	3.56 / 3.65	6.33 / 7.38
Recommended fuse size	A	15	15	25
Cable width (EN 60 335-1) ⁽³⁾	mm ²		1.50 x 2 + E	2.50 x 2 + E
Indoor/outdoor connection (shielded)	mm ²		1.50 x 3 + E	2.50 x 3 + E

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

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



Controls and compatible accessories (see page 161)



Infrared remote control
RAR-6NE1
Included



Wired standard remote control
SPX-RCDB1



Wired programmable remote control
SPX-WKT4



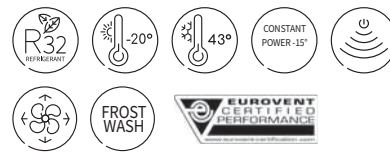
H-Link box
PSC-6RAD

Other (price excluding taxes):

- Control box for multi-indoor units SPX-DST1 + SPX-WDST8M
- interface airCloud Home SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3
- Single fault report kit SPX-WDC7 + HA-S100TSA

Shirokuma

When power goes hand in hand with comfort



Motion sensor

Technology that saves you money – with a motion sensor to continuously analyze the presence of people in the room. If there is no detection after 20 min, the setpoint is shifted by one degree; after 40 min it shifts one degree again. (Fig. 1)

4-Way Swing

Because the blades move both vertically and horizontally, the air is distributed more uniformly, improving the level of comfort in the room. (Fig. 2)

Low noise level

Our Shirokuma indoor units were designed to work at low noise levels from 20dB(A), to keep them completely discreet.

Constant Power technology

The CONSTANT POWER solution has been specially developed by HITACHI. It improves the performance of your heat pump and maintains its heating power down to an outside temperature of -15°C and ensures heating down to -20°C . (Fig. 3)

Double fan blade

For a pleasant and improved air flow in the living room, the Shirokuma unit is equipped with a double fan blade. This double blade discreetly ensures a comfortable flow of air, avoiding the unpleasantness of a 'swinging fan'.

FrostWash technology

The Shirokuma is designed to offer you effective air purification throughout the year with its exclusive and innovative functionality: FrostWash. Automatically and regularly cleans the heat exchanger to emit pure, clean air.

Ultra performance filtration

STAINLESS prefilters and Active Carbon filters as standard. The Active Carbon filter with silver ions (known for their antibacterial properties) acts by adsorption. This retains certain gas molecules or suspended particles on the surface of the filter. The air that comes out of the filter is then free of odors and pollutants.

Fig. 1

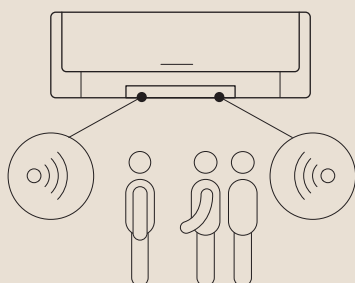


Fig. 2

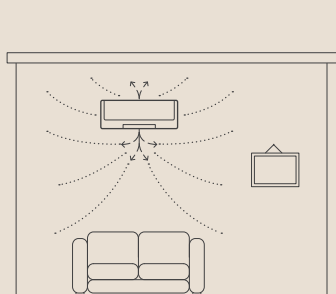
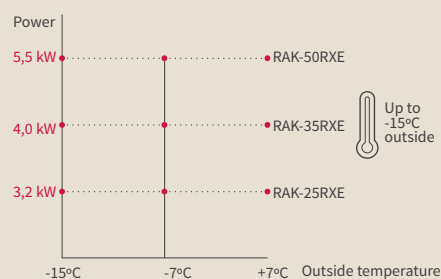
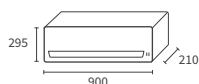


Fig. 3

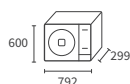


Indoor units

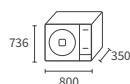


RAK-25RXE
RAK-35RXE
RAK-50RXE

Outdoor units



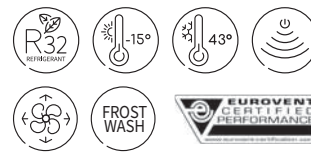
RAC-25WXE
RAC-35WXE



RAC-50WXE

Performance

Compact size and high performance



Ultra-compact

The most compact unit of the range, with an overall width of 78 cm. It will fit perfectly into any room and can easily be installed above a doorway. (Fig.3)

4-Way Swing

Because the blades move both vertically and horizontally, the air is distributed more uniformly, improving the level of comfort in the room. (Fig. 1)

Motion sensor

Technology that saves you money – with a motion sensor to continuously analyze the presence of people in the room.

If there is no detection after 20 min, the setpoint is shifted by one degree; after 40 min it shifts one degree again. (Fig. 2)

Compatible with the airCloud remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

FrostWash technology

The Performance is designed to offer you effective air purification throughout the year with its exclusive and innovative functionality: FrostWash. Automatically and regularly cleans the heat exchanger to emit pure, clean air.

Silent operation

With a low noise level of just 20 dB(A)*, you can enjoy a comfortable environment without noticing that the indoor unit is even running.

Active Carbon filter

The Active Carbon filter with silver ions (known for their antibacterial properties) acts by adsorption. This retains certain gas molecules or suspended particles on the surface of the filter. The air that comes out of the filter is then free of odors and pollutants.

Fig. 1

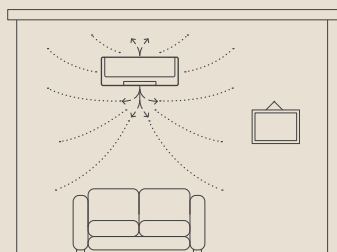


Fig. 2

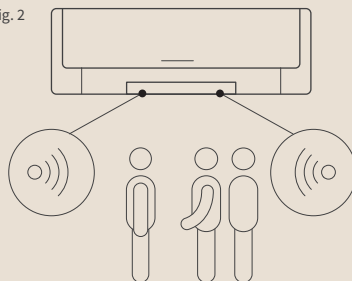
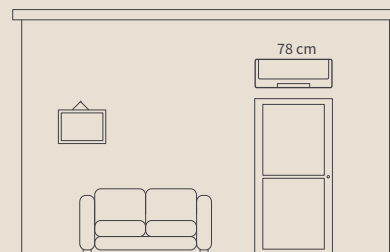
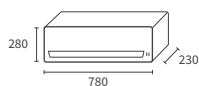


Fig. 3

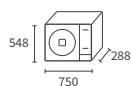


Indoor units

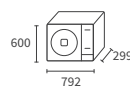


RAK-18RPE
RAK-25RPE
RAK-35RPE
RAK-42RPE
RAK-50RPE

Outdoor units



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



RAC-42WPE
RAC-50WPE

*20dB(A) acoustic pressure at low fan speeds.

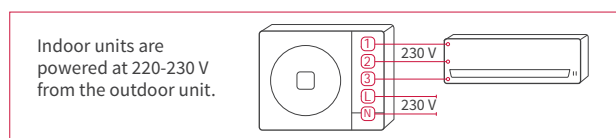
Performance

Performance, cooling	Unit	1.8 kW	2.5 kW	3.5 kW	4.2 kW	5.0 kW
Nominal cooling capacity (min-max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)
UK cooling capacity (UK sensible)	kW	1.91 (1.79)	2.38 (1.89)	3.33 (2.24)	4.00 (3.00)	4.76 (3.17)
Rated power input Cooling (min-max)	kW	0.419 (0.25 - 1.01)	0.549 (0.25 - 1.29)	0.941 (0.25 - 1.46)	1.120 (0.30 - 1.70)	1.471 (0.30 - 2.10)
EER	-	4.77	4.55	3.72	3.75	3.40
Energy class Cooling	-	A+++		A++		
SEER (average climate)	-	8.50		7.80	7.50	7.35
Working range in Cooling	°C	-10°C / + 43°C				
Performance, heating	Unit	1.8 kW	2.5 kW	3.5 kW	4.2 kW	5.0 kW
Nominal heating capacity (min-max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.7 - 6.00)	6.00 (2.2 - 7.30)
Heating capacity at -7°C ⁽¹⁾	kW	2.30	3.00	3.40	3.80	4.10
Rated power input Heating (min-max)	kW	0.519 (0.25 - 0.97)	0.733 (0.25 - 1.50)	1.000 (0.25 - 1.70)	1.317 (0.50 - 2.10)	1.558 (0.50 - 2.75)
COP	-	4.82	4.64	4.20	4.10	3.85
Energy class Heating	-	A++				
SCOP (average climate)	-	4.90		4.60		
Working range in Heating	°C	-15°C / + 21°C				
Indoor units	Unit	RAK-18RPE	RAK-25RPE	RAK-35RPE	RAK-42RPE	RAK-50RPE
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	21 / 24 / 33 / 37	22 / 24 / 33 / 40	25 / 26 / 36 / 43	25 / 28 / 39 / 46	25 / 28 / 39 / 46
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	19 / 22 / 33 / 38	20 / 23 / 34 / 41	26 / 27 / 36 / 44	27 / 31 / 39 / 46	25 / 28 / 39 / 46
Sound power in Cooling mode	dB(A)	51	54	57	60	60
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	312 / 350 / 400 / 440	333 / 370 / 430 / 510	353 / 420 / 485 / 680	353 / 410 / 540 / 720	353 / 410 / 540 / 720
Dehumidification	l/h	1.2	1.4	1.6	1.8	2
Dimensions (H x L x D)	mm	280 x 780 x 230				
Net weight	kg	8.5				
Remote control	-	Weekly infrared (included)				
Outdoor units	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Sound pressure in Cooling mode ⁽²⁾	dB(A)	44	46	48	49	49
Sound power in Cooling mode	dB(A)	58	60	61	63	63
Airflow (Cooling / Heating)	m ³ /h	1860 / 1620		1920 / 1620	2160 / 2160	
Dimensions (H x L x D)	mm	548 x 750 x 288			600 x 792 x 299	
Net weight	kg	32.5			39	
Compressor	-	Rotary				
Refrigeration characteristics	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"			1/4" / 1/2"	
Initial refrigerant charge	kg	0.870			1.050	
Pre-charged for	m	20			20	
Min. length	m	3			3	
Max. length / Additional charge	m/g/m	20 / -			20 / -	
Max. level difference (outdoor unit above / outdoor unit below)	m	10 / 10			10 / 10	
Refrigerant	-	R32				
Electrical features	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz				
Operating current (Cooling / Heating)	A	1.09 - 4.39 / 1.09 - 4.22	1.09 - 5.61 / 1.09 - 6.52	1.09 - 6.35 / 1.09 - 7.39	1.30 - 7.39 / 2.17 - 8.70	1.30 - 8.70 / 2.17 - 11.96
Recommended fuse size	A	15	15	15	25	25
Cable width (EN 60 335-1) ⁽³⁾	mm ²	1.50 x 2 + E			2.50 x 2 + E	
Indoor/outdoor connection (shielded)	mm ²	1.50 x 3 + E			2.50 x 3 + E	

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.



Controls and compatible accessories (see page 161)



Infrared remote control
RAR-6NE1
Included



Wired standard remote control
SPX-RCDB1



Wired programmable remote control
SPX-WKT4



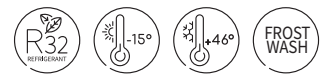
H-Link box
PSC-6RAD

Other (price excluding taxes):

- Control box for multi-indoor units
SPX-DST1 + SPX-WDST8M
- interface airCloud Home SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3
- Single error report kit SPX-WDC7 + HA-S100TSA

Summit

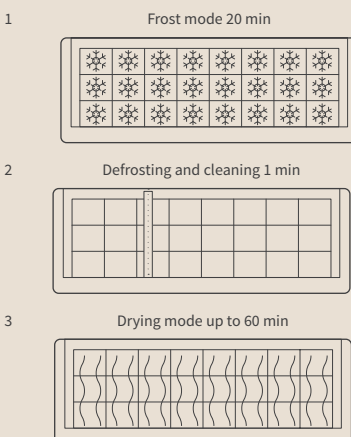
Simple yet effective



Exclusive and innovative solution, FrostWash*

to distribute clean air.

*FrostWash stages



Compatible with the airCloud remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

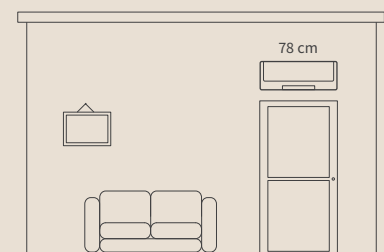
Maximum use of space

Thanks to its small size, you can install it discreetly. With a width of 780 mm, it will fit anywhere, including above a doorway. (Fig. 1)

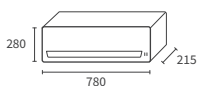
Silent operation

With a low noise level of just 19dB*, you can enjoy a comfortable environment without noticing that the indoor unit is even running.

Fig. 1



Indoor units

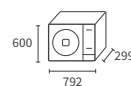


RAK-18REF
RAK-25REF
RAK-35REF
RAK-50REF

Outdoor units



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



RAC-50WEF

* Refer to your model.

Summit

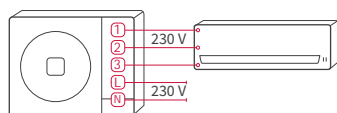
Performance, cooling	Unit	1.8 kW	2.5 kW	3.5 kW	5.0 kW
Nominal cooling capacity (min-max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
UK cooling capacity (UK sensible)	kW	2.00 (1.93)	2.50 (2.21)	2.84 (2.26)	3.83 (2.58)
Rated power input Cooling (min-max)	kW	0.58 (0.25 - 1.01)	0.70 (0.25 - 1.29)	1.09 (0.25 - 1.46)	1.56 (0.50 - 2.10)
EER	-	3.45	3.57	3.21	
Energy class Cooling	-			A++	
SEER (average climate)	-		6.10		
Working range in Cooling	°C		-10°C / + 46°C		
Performance, heating	Unit	1.8 kW	2.5 kW	3.5 kW	5.0 kW
Nominal heating capacity (min-max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	6.00 (2.2 - 7.30)
Heating capacity at -7°C ⁽¹⁾	kW	2.00	2.50	3.00	4.00
Rated power input Heating (min-max)	kW	0.62 (0.25 - 0.97)	0.88 (0.25 - 1.25)	1.10 (0.25 - 1.70)	1.66 (0.50 - 2.75)
COP	-	4.03	3.86	3.82	3.61
Energy class Heating	-			A+	
SCOP (average climate)	-		4.20		4.30
Working range in Heating	°C		-15°C / + 21°C		
Indoor units	Unit	RAK-18REF	RAK-25REF	RAK-35REF	RAK-50REF
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	21 / 24 / 33 / 37	22 / 24 / 33 / 40	25 / 26 / 36 / 43	28 / 30 / 40 / 46
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	19 / 22 / 33 / 38	20 / 23 / 34 / 41	26 / 27 / 36 / 44	25 / 30 / 39 / 47
Sound power in Cooling mode	dB(A)	52	54	57	60
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	312 / 350 / 400 / 440	333 / 370 / 430 / 510	333 / 400 / 485 / 600	333 / 450 / 600 / 700
Dehumidification	l/h	1.2	1.4	1.6	2
Dimensions (H x L x D)	mm	280 x 780 x 215			
Net weight	kg		7.7		8.2
Remote control	-	Infrared (included)			
Outdoor units	Unit	RAC-18WEF	RAC-25WEF	RAC-35WEF	RAC-50WEF
Sound pressure in Cooling mode ⁽²⁾	dB(A)	45	47	48	50
Sound power in Cooling mode	dB(A)	59	61	62	64
Airflow (Cooling / Heating)	m ³ /h	1860 / 1620		2160 / 2160	
Dimensions (H x L x D)	mm	530 x 660 x 278		600 x 792 x 299	
Net weight	kg	23.7		25.0	39.5
Compressor	-	Rotary			Double twin rotary
Refrigeration characteristics	Unit				
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"			1/4" / 1/2"
Initial refrigerant charge	kg	0.53		0.70	0.93
Pre-charged for	m	20			
Min. length	m	3			
Max. length / Additional charge	m/g/m	20 / -			
Max. level difference (outdoor unit above / outdoor unit below)	m	10 / 10			
Refrigerant	-	R32			
Electrical features	Unit	230V / 1Ph / 50Hz			
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz			
Operating current (Cooling / Heating)	A	1.09 - 4.39 / 1.09 - 4.22	1.09 - 5.61 / 1.09 - 5.43	1.09 - 6.35 / 1.09 - 7.39	2.17 - 9.13 / 2.17 - 11.96
Recommended fuse size	A	15	15	15	25
Cable width (EN 60 335-1) ⁽³⁾	mm ²	1.50 x 2 + E			2.50 x 2 + E
Indoor/outdoor connection (shielded)	mm ²	1.50 x 3 + E			2.50 x 3 + E

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

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



Controls and compatible accessories (see page 161)



Infrared remote control
RAR-7PE1
Included



Wired standard remote control
SPX-RCDB1



Wired programmable remote control
SPX-WKT4



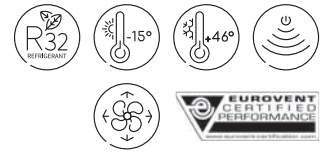
H-Link box
PSC-6RAD

Other (price excluding taxes):

- Control box for multi-indoor units SPX-DST1 + SPX-WDST8M
- interface airCloud Home SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3
- Single error report kit SPX-WDC7 + HA-S100TSA

Light commercial wall mount

Multiple features to fit any setup



4-Way Swing

Because the blades move both vertically and horizontally, the air is distributed more uniformly, improving the level of comfort in the room. (Fig. 1)

Motion sensor

Technology that saves you money – with a motion sensor to continuously analyze the presence of people in the room.

If there is no detection after 20 min, the setpoint is shifted by one degree; after 40 min it shifts one degree again. (Fig. 2)

Improved comfort

With the SPX-WKT4 remote control, you can choose where to measure the setting temperature (at the remote control or the return or using the average of both readings). This feature improves the level of comfort in the room.

Flexible installation

With a 30 m long pipe run between the indoor unit and the outdoor unit, this indoor unit can be installed in any part of the building. What's more, the level difference between the two can be up to 20 m.

Compatible with the airCloud remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

A compact indoor unit

This indoor unit measures only 900 mm wide, so it can be installed anywhere without interfering with other elements in the room.

Fig. 1

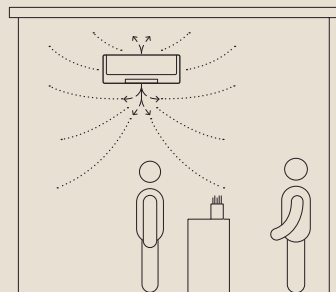
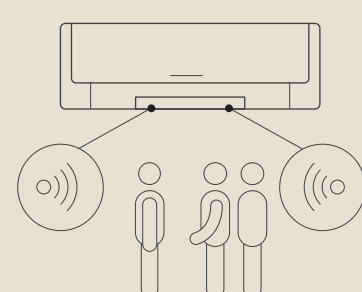
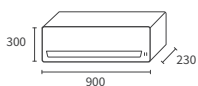


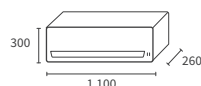
Fig. 2



Indoor units

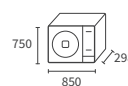


RAK-50RPE1
RAK-60RPE

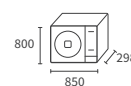


RAK-70PPD

Outdoor units



RAC-50NPE
RAC-60NPE



RAC-70NPD

Light commercial Wall units

Performance, cooling	Unit	5.0 kW	6.0 kW	7.0 kW
Nominal cooling capacity (min-max)	kW	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)	7.00 (1.50 - 8.00)
UK cooling capacity (UK sensible)	kW	4.71 (3.30)	5.30 (3.67)	5.54 (4.49)
Rated power input Cooling (min-max)	kW	1.42 (0.30 - 2.500)	1.71 (0.30 - 2.65)	2.00 (0.50 - 2.70)
EER	-	3.52	3.51	3.50
Energy class Cooling	-	-	A++	-
SEER (average climate)	-	7.30	6.50	7.00
Working range in Cooling	°C	-	-15°C / +46°C	-
Performance, heating	Unit	5.0 kW	6.0 kW	7.0 kW
Nominal heating capacity (min-max)	kW	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)	8.00 (1.50 - 8.50)
Heating capacity at -7°C ⁽¹⁾	kW	4.20	4.80	5.80
Rated power input Heating (min-max)	kW	1.50 (0.30 - 2.650)	1.84 (0.30 - 2.65)	2.10 (0.50 - 2.80)
COP	-	4.00	3.80	3.81
Energy class Heating	-	A++	A+	A++
SCOP (average climate)	-	4.60	4.20	4.60
Working range in Heating	°C	-	-15°C / +24°C	-
Indoor units	Unit	RAK-50RPE1	RAK-60RPE	RAK-70PPD
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	26 / 33 / 39 / 47	30 / 33 / 42 / 48	30 / 35 / 42 / 47
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	26 / 33 / 39 / 47	33 / 34 / 42 / 49	30 / 36 / 42 / 47
Sound power in Cooling mode	dB(A)	60		
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	310 / 410 / 570 / 720	480 / 540 / 690 / 930	510 / 630 / 870 / 1020
Dehumidification	l/h	2.8		
Dimensions (H x L x D)	mm	300 x 900 x 230		
Net weight	kg	12.0		
Remote control	-	Not included		
Outdoor units	Unit	RAC-50NPE	RAC-60NPE	RAC-70NPD
Sound pressure in Cooling mode ⁽²⁾	dB(A)	50		52
Sound power in Cooling mode	dB(A)	65		67
Airflow (Cooling / Heating)	m ³ /h	2160 / 2160		2700 / 2700
Dimensions (H x L x D)	mm	750 x 850 x 298		800 x 850 x 298
Net weight	kg	50		52
Compressor	-	Rotary		
Refrigeration characteristics	Unit	RAC-50NPE	RAC-60NPE	RAC-70NPD
Diameter of pipes (Liq / Gas)	inches	1/4" / 1/2"		1/4" / 5/8"
Initial refrigerant charge	kg	1.5		1.6
Pre-charged for	m	30		-
Min. length	m	3		-
Max. length / Additional charge	m/g/m	30 / -		-
Max. level difference (outdoor unit above / outdoor unit below)	m	20 / 20		-
Refrigerant	-	R32		
Electrical features	Unit	RAC-50NPE	RAC-60NPE	RAC-70NPD
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz		
Operating current (Cooling / Heating)	A	5.98-6.52 / 6.31-6.89	7.20-7.85 / 7.74-8.45	8.42-9.18 / 8.84-9.64
Recommended fuse size	A	20	20	20
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2.50 x 2 + E		
Indoor/outdoor connection (shielded)	mm ²	1.50 x 3 + E		

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Controls and compatible accessories (see page 161)



Infrared remote control
SPX-RCKA2



Wired standard remote control
SPX-RCDB1



Wired programmable remote control
SPX-WKT4



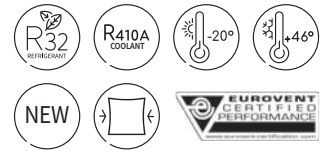
H-Link box
PSC-6RAD

Other (price excluding taxes):

- Control box for multi-indoor units
SPX-DST1 + SPX-WDST8M
- airCloud Home SPX-WFG02 interface
- Hi-Box AHP-SMB-01
- Hi Kumo gateway for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3

Utopia Prime wall unit

A flexible R410A or R32 solution to meet the toughest technical restrictions



NEW

Ultimate air circulation

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

Easy and discreet integration

Our units are so compact and light that you can install them discreetly above a doorway.

Their new design improves access to the filters and means the fan motor can also be replaced without removing the heat exchanger.

Easier controls

Our wall units are compatible with all types of remote control and feature an infrared receiver as standard.

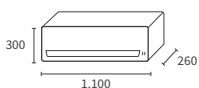
Large operating ranges

This equipment works down to -20°C in Heating mode and up to 46°C in Cooling mode. Heating-mode-only option is also available.

Compactness

Outdoor units are exceptionally compact, with a footprint of 0.23 m².

Indoor units

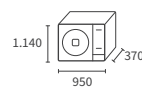


RPK-3.0 FSRM
RPK-4.0 FSRM

Outdoor units



RAS-3HVRC2



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

		R32 Refrigerant		R410A Refrigerant
		7.1 kW	10 kW	10 kW
		3HP	4HP	4HP
Performance, cooling	Unit			
Nominal cooling capacity	kW	7.1	10.00	10.00
UK total cooling capacity (UK sensible)	kW	7.41 (5.34)	10.30 (6.90)	10.30 (6.90)
Rated power input cooling	kW	2.11	4.13	4.63
EER	-	3.37	2.42	2.16
Seasonal energy class Cooling	-	A++		A++
SEER (average climate)	-	7.04	6.45	6.17
Working range in Cooling	°C	-15°C / +46°C (DB)		-15°C / +46°C (DB)
Performance, heating	Unit			
Nominal heating capacity	kW	8	11.20	11.20
Heating capacity at -7°C*	kW	6.30	10.34	10.34
Rated power input heating	kW	2.66	3.97	3.90
COP	-	3.01	2.82	2.87
Seasonal energy class Heating	-	A		A
SCOP (average climate)	-	3.90	3.80	3.83
Working range in Heating	°C	-20°C / +18°C (WB)		-20°C / +18°C (WB)
Indoor wall units	Unit	RPK- 3.0FSRM	RPK- 4.0FSRM	RPK- 4.0FSRM
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	35 / 40 / 44 / 47	39 / 44 / 48 / 51	39 / 44 / 48 / 51
Sound power in Cooling mode (EL / L / M / H)	dB(A)	51 - 56 - 60 - 63	54 - 60 - 64 - 65	54 - 60 - 64 - 65
Airflow in Cooling mode (EL / L / M / H) ⁽³⁾⁽⁴⁾	m3/h	750 / 930 / 1050 / 1200	870 / 1050 / 1200 / 1380	870 / 1050 / 1200 / 1380
Condensate pump included	-	No	No	No
Dimensions (H x L x D)	mm	300 x 1100 x 260		300 x 1100 x 260
Weight	kg	15		15
Refrigerant pipe diameter (Liq / Gas)	inches	3/8 / 5/8		3/8 / 5/8
Condensate outlet diameter (ext)	mm	20		20
Power supply	-	230V / 1Ph / 50Hz		230V / 1Ph / 50Hz
recommended fuse size	A	5		5
Cable width (EN 60 335-1) ⁽¹⁾	mm2	3 x 0.75		3 x 0.75
Remote control	-	PC-AWR (Infrared)		PC-AWR (Infrared)
Outdoor units	Unit	RAS-3HVRC2	RAS-4H(V)RC2E	RAS-4H(V)NC2E
Sound pressure in Cooling mode (Night mode) ⁽²⁾	dB(A)	54 (48)	54 (51)	54 (51)
Sound power in Cooling mode	dB(A)	69	70	70
Airflow (cooling)	m³/h	2700	4800	4800
Dimensions (H x L x D)	mm	629 x 799 x 300	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	48	84	84
Compressor	-	Inverter DC rotary unit		Inverter DC rotary unit
Refrigeration characteristics	Unit			
Initial refrigerant charge	kg	1.7	3.0	3.2
Pre-charged for	m	20		20
Max. length / Additional charge	m/g/m	50 / 45	75 / 45	75 / 60
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 20		30 / 20
Diameter of pipes (Liq / Gas)	mm (inches)	9.52 (3/8) - 15.88 (5/8)		9.52 (3/8) - 15.88 (5/8)
Refrigerant	-	R32		R410A
Electrical features, outdoor unit	Unit			
Power supply	-	1~ 230V 50Hz	1 ~ 230V 50Hz or 3N~ 400V 50Hz	1 ~ 230V 50Hz or 3N~ 400V 50Hz
Max. current	A	15.8	22.5 or 15	22.5 or 15
Recommended fuse size	A	20	25 or 20	25 or 20
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 4.00	3 x 6.00 or 5 x 4.00	3 x 6.00 or 5 x 4.00
Indoor/outdoor connection (shielded)	mm²	2 x 0.75		2 x 0.75

⁽¹⁾ Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

⁽²⁾ Sound pressure is measured under the following conditions: 1 m under the unit, 1 m from the pulse air flap.

⁽³⁾ High-speed access is possible with remote controls PC-ARFP1E and PC-ARH1E.

⁽⁴⁾ Very low speed (tpv) is available for Thermo-off mode.

* Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

(V) Single-phase version.

Controls and compatible accessories (see the tabs TWIN + VRF controls)



Simple wired controller
PC-ARH1E



Infrared controller
Included
PC-AWR



Hard wired control
PC-ARFP1E



Remote sensor
THM-R2AE



Adjustable input/output contact connections
PCC-1A



Condensation drainage kit
DDB-26 (4HP models)
DDB-12L (3HP models)

Ideal for residential buildings, the Shirokuma console provides a comfortable heating or cooling temperature in just a few minutes. Its elegant and understated design will suit any room.



— Console Mono-split



1

A unique design designed to fit into any room.

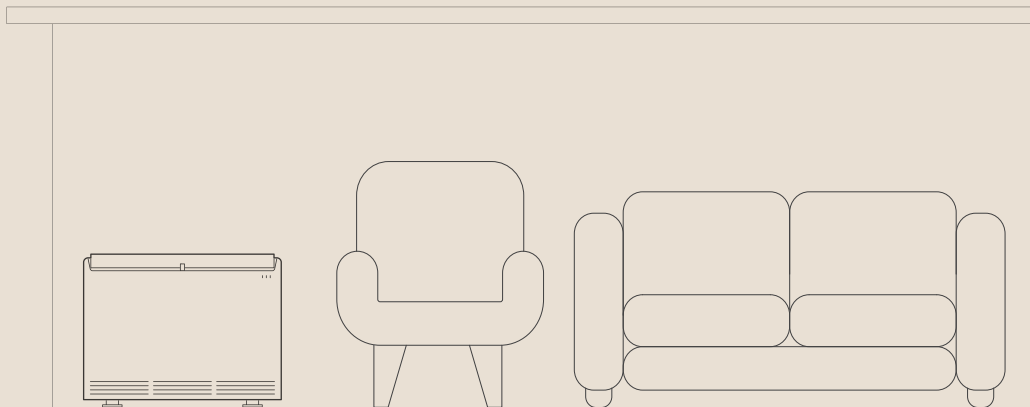


It is designed to be as inconspicuous as possible, and this unit can even be built-in.

2

The ideal unit for small spaces

Low ceilings

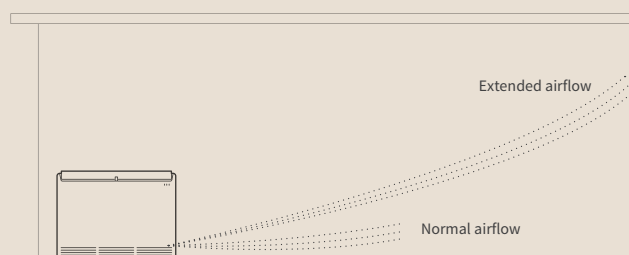


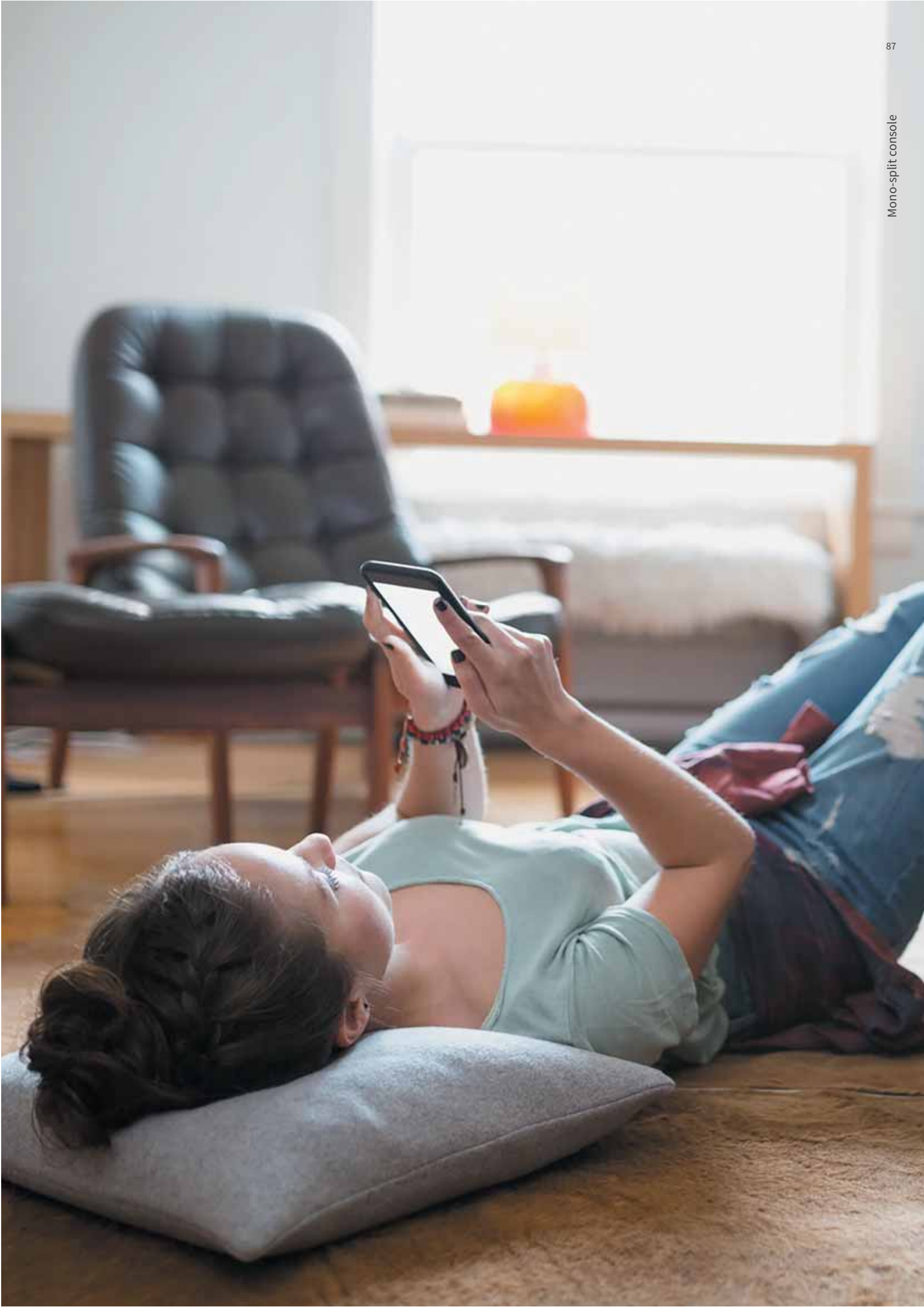
Very compact, consoles are particularly suitable for installation in smaller rooms.

3

Greater thermal comfort

The distribution of warm air to the lower part of the room allows it to quickly reach and maintain the desired temperature.







Shirokuma console

High-performance equipment with a unique design



Extended airflow

With a **dynamic airflow**, the air can reach every corner of the room. The room is air-conditioned (with heating or cooling air) at the touch of a button on the remote control. (Fig. 1)

Flexibility with the Multizone range

The indoor unit of the Shirokuma console is compatible with all multi-split outdoor units. You can also have multiple indoor units installed in different rooms with a single outdoor unit.

Exceptionally high-performance

The console has an energy rating of A+++. Guaranteed energy savings!

Management options

The console comes with an infrared remote control as standard. It is also compatible with the SPX-WKT4 wired remote control with hourly programming.

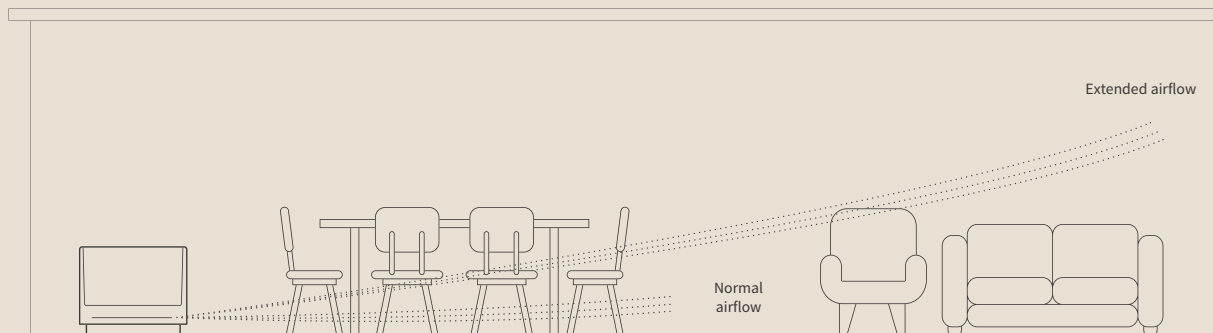
Flexible installation

Wall or floor-mounted on a pedestal (provided).

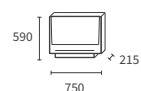
Compatible with airCloud

The entire Hitachi residential range is compatible with the airCloud system, which allows you to control equipment **from any mobile device** acting as a remote control.

Fig. 1

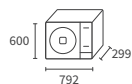


Indoor units

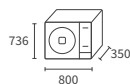


RAF-25RXE
RAF-35RXE
RAF-50RXE

Outdoor units

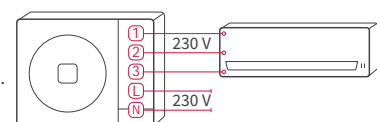


RAC-25FXE
RAC-35FXE



RAC-50FXE

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



Shirokuma console

Performance, cooling	Unit	2.5 kW	3.5 kW	5.0 kW
Nominal cooling capacity (min-max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (0.90 - 5.20)
UK total cooling capacity (UK sensible)	kW	2.50 (2.40)	3.50 (2.97)	5.00 (3.57)
Rated power input Cooling (min-max)	kW	0.54 (0.15 - 1.18)	0.93 (0.15 - 1.38)	1.39 (0.5 - 2.10)
EER	-	4.65	3.75	3.60
Energy class Cooling	-	A+++	A++	
SEER (average climate)	-	8.50	8.20	6.80
Working range in Cooling	°C	-10°C / +46°C		
Performance, heating				
Nominal heating capacity (min-max)	kW	3.40 (0.90 - 4.40)	4.50 (0.90 - 5.00)	6.00 (0.90 - 8.10)
Heating capacity at -7°C ⁽¹⁾	kW	3.40	4.20	5.50
Rated power input Heating (min-max)	kW	0.26 (0.15 - 1.12)	1.15 (0.15 - 1.35)	1.58 (0.5 - 2.70)
COP	-	4.50	3.90	3.80
Energy class Heating	-	A++		A+
SCOP (average climate)	-	4.60		4.30
Working range in Heating	°C	-20°C / +24°C		
Indoor units	Unit	RAF-25RXE	RAF-35RXE	RAF-50RXE
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	20 / 26 / 31 / 38	20 / 26 / 31 / 39	22 / 29 / 36 / 43
Sound power in Cooling mode	dB(A)	52	53	57
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	270 / 390 / 510 / 630	270 / 390 / 510 / 660	300 / 450 / 540 / 700
Dehumidification	l/h	1.4	1.9	2.8
Dimensions (H x L x D)	mm	590 x 750 x 215		
Net weight	kg	15		
Remote control	-	Weekly infrared (included)		
Outdoor units	Unit	RAC-25FXE	RAC-35FXE	RAC-50FXE
Sound pressure in cooling mode ⁽²⁾	dB(A)	45	47	51
Sound power in Cooling mode	dB(A)	59	61	65
Airflow (Cooling / Heating)	m ³ /h	1860 / 1620	1920 / 1620	2160 / 2160
Dimensions (H x L x D)	mm	600 x 792 x 299		736 x 800 x 350
Net weight	kg	37		51
Compressor	-	Rotary		
Refrigeration characteristics				
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"		1/4" / 1/2"
Condensate outlet diameter (ext)	mm	16		
Initial refrigerant charge	kg	0.98		1.2
Pre-charged for	m	20		30
Min. length	m	3		
Max. length / Additional charge	m/g/m	20 / -		30 / -
Max. level difference (outdoor unit above / outdoor unit below)	m	10/10		
Refrigerant	-	R32		
Electrical features				
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz		
Max. current	A	5	7	12
Recommended fuse size	A	15		25
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2 x 1.50 + E		2 x 2.50 + E
Indoor/outdoor connection (shielded)	mm ²	3 x 1.50 + E		3 x 2.50 + E

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Controls and compatible accessories (see page 161)



Infrared remote control
RAR-6NE4
Included



Wired standard remote control
SPX-RCDB1



Wired programmable remote control
SPX-WKT4



H-Link box
PSC-6RAD

Other (price excluding taxes):

- Control box for multi-indoor units SPX-DST1 + SPX-WDST8M
- interface airCloud Home SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3
- Leak sensor SPX-RAFGLS

This ducted unit is the solution for both comfort and aesthetics. With this type of system, the diffusers are the only visible elements in a room, so it blends in nicely with any interior design.

With its zoning solution, the ducted unit can air-condition and heat several rooms from a single indoor unit. This solution is ideal for public but also residential buildings wherever discretion is key. Our wide range of R410A and R32 products have everything you need for your projects.



Ducted unit Mono-split



Selection guide

Light Commercial R32 ducted



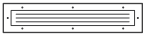
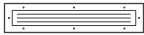
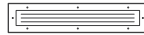
Primary R32



Utopia Prime ducted unit



NEW

	Light Commercial R32 ducted	Primary R32	Utopia Prime ducted unit	NEW
				
Refrigerant	R32	R32	R410A and R32	
Type of heat pump	Mono-split	Mono-split	Mono-split	
Applications	Residential Small public buildings	Business Public	Residential Shared residential Business Public	
Rated power, cooling (kW)	2.5 3.5 5.0 6.0 7.0	6.9 8.5 10.1 12.5 14.1 17.1	7.1 10.0 12.5 14.0	
Supply voltage	Single-phase	Single-phase (3/3.5/4/5/6 HP) Three-phase (5/6/6.5 HP)	Single-phase (3 to 6 HP) Three-phase (4 to 6 HP)	
COP up to	4.00	3.75	4.03	
Heating / Cooling	A+ / A++	A / A++	A+ / A++	
Heating down to	-15°C	-15°C	-20°C	
Cooling up to	+46°C	+48°C	+46°C	
Max. static pressure up to	150 Pa	120 Pa	150 Pa	
Max. length/level difference (m) outdoor unit indoor unit up to	30 / 20	50 / 30	75 / 30	



R32 Light commercial ducted unit

The discrete and high-performance high-end solution



Condensate pump included

So you don't have to worry about adding more expense to the installation, the ducted unit incorporates its own pumps to automatically remove condensation. (Fig. 1)

Static high pressure

The ducted has a pressure of 150 Pa so you can install it just where you want it and the user does not have to worry about enough air getting to the furthest room.

Flexible installation

With a 30 m long pipe run between the indoor unit and the outdoor unit, this indoor unit can be installed in any part of the building. What's more, the level difference between the two can be up to 20 m.

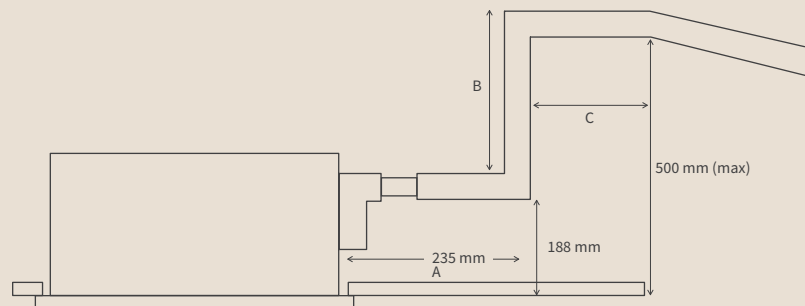
Compatible with the airCloud for Home remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

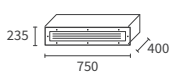
Compatible with Airzone

With a single ducted unit, the user can control up to 6 rooms separately thanks to Airzone motorized plenums that fit directly onto the Hitachi units. This level of compatibility means you are free to use the full range of Airzone air regulation of Airzone products.

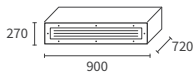
Fig. 1



Indoor units



RAD-25RPE
RAD-35RPE

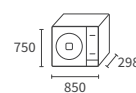
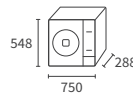


RAD-50RPE
RAD-60RPE
RAD-70PPD

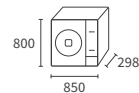
Outdoor units



RAC-25NPE
RAC-35NPE



RAC-50NPE
RAC-60NPE



RAC-70NPD

Light Commercial R32 ducted unit

Performance, cooling	Unit	2.5 kW	3.5 kW	5.0 kW	6.0 kW	7.0 kW
Nominal cooling capacity (min-max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)	7.00 (1.50 - 8.00)
UK total cooling capacity (UK sensible)	kW	1.60 (1.37)	3.50 (2.44)	4.77 (3.83)	5.24 (3.69)	6.64 (5.09)
Rated power input Cooling (min-max)	kW	0.595 (0.25 - 1.29)	0.945 (0.25 - 1.46)	1.42 (0.30 - 2.50)	1.71 (0.30 - 2.60)	2.11 (0.50 - 2.70)
EER	-	4.20	3.70	3.52	3.51	3.32
Energy class Cooling	-	A++				
SEER (average climate)	-	6.20	6.50	6.20		6.10
Working range in Cooling	°C	-10°C / +46°C			-15°C / +46°C	
Performance, heating						
Nominal heating capacity (min-max)	kW	3.50 (0.90 - 5.50)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)	8.00 (1.50 - 8.50)
Heating capacity at -7°C ⁽¹⁾	kW	2.50	3.20	4.20	5.00	5.50
Rated power input Heating (min-max)	kW	0.875 (0.25 - 1.50)	1.260 (0.25 - 1.92)	1.57 (0.30 - 2.65)	1.84 (0.30 - 2.65)	2.20 (0.50 - 2.80)
COP	-	4.00	3.81	3.82	3.80	3.64
Energy class Heating	-	A+				
SCOP (average climate)	-	4.30			4.00	
Working range in Heating	°C				-15°C / +24°C	
Indoor units						
		RAD-25RPE	RAD-35RPE	RAD-50RPE	RAD-60RPE	RAD-70PPD
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	30 / 33 / 37 / 41			29 / 32 / 35 / 39	
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	30 / 34 / 38 / 42			29 / 32 / 35 / 40	
Sound power in Cooling mode	dB(A)	57			53	
Static pressure (L / M / H)	Pa	- / - / 70			50 / 100 / 150	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	330 / 390 / 450 / 510			350 / 540 / 800 / 1140	
Dehumidification	l/h	1.4	1.6	2.8	4.8	
Dimensions (H x L x D)	mm	235 x 750 x 400			270 x 900 x 720	
Net weight	kg	16			35	
Condensate pump	-	Included				
Remote control	-	Not included (SPX-RCKA1 / SPX-RCDA1 / SPX-WKT4)				
Outdoor units						
		RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE	RAC-70NPD
Sound pressure in Cooling mode ⁽²⁾	dB(A)	48			50	
Sound power in Cooling mode	dB(A)	61			65	
Airflow (Cooling / Heating)	m ³ /h	1920 / 1620			2160 / 2160	
Dimensions (H x L x D)	mm	548 x 750 x 288			750 x 850 x 298	
Net weight	kg	32.5			50	
Compressor	-	Rotary				
Refrigeration characteristics						
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"			1/4" / 1/2"	
Initial refrigerant charge	kg	0.86			1.50	
Pre-charged for	m	20			30	
Min. length	m				3	
Max. length / Additional charge	m/g/m	20 / -			30 / -	
Max. level difference (outdoor unit above / outdoor unit below)	m	10 / 10			20 / 20	
Refrigerant	-	R32				
Electrical features						
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz				
Max. current	A	15			20	
Recommended fuse size	A	15			20	
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2 x 1.50 + E			2 x 2.50 + E	
Indoor/outdoor connection (shielded)	mm ²	3 x 1.50 + E				

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Sound pressure measurements were made 1.5 meters from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Part number	Description	Length	Height	Depth	Compatibility	Number of ductwork connections
PIM1SOURADNH	STANDALONE SUPPLY PLENUM M1 2XD200	720	200	300 + 50	RAD-18QPE* / RAD 25-35RPE	2 x 200
PIM1REPRADNH	STANDALONE RETURN PLENUM M1 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1REPRADNH	STANDALONE RETURN PLENUM M1 filter door 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1SOURADDH	STANDALONE SUPPLY PLENUM M1 3XD200	810	225	250 + 50	RAD-50-60RPE / RAD-70PPD	3 x 200
PIM1REPRADDH	STANDALONE RETURN PLENUM M1 2XD200	820	225	200 + 50	RAD-50-60RPE / RAD-70PPD	2 x 200

* Only available as a multi option

Controls and compatible accessories (see page 161)



Wired programmable remote control
SPX-WKT4



Infrared remote control
SPX-RCKA1



Wired standard remote control
SPX-RCDA1

Other (price excluding taxes):

- H-Link box – PSC-6RAD
- Control box Multi-indoor units SPX-DST1 + SPX-WDST8M
- airCloud for Home interface WIFI SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box
- SPX-TAG01
- Single dry contact kit SPX-WDC2
- SPX-RTH1 remote sensor

Primary R32



Best value for money



Integrated condensate pump

With an elevation of 700 mm, these ducted units suit most projects.

Flexible air intake from below or from the back

This solution offers true installation flexibility depending on the type of configuration. You can change the intake – from below or from the rear. You do not need to change the equipment, just set the static pressure. (Fig. 1)

NEW Versatile

Up to 8 indoor units connected to a single remote control (with HDBA21NEWH + HCWA21NEHH). See diagrams on p168.

Large static pressure control range

Large static pressure control range (up to 120 Pa) for long ducts and multizone applications, allowing for a more practical and flexible installation.

Long pipe run and large height level differences

With up to 50 m of pipe run and a height difference up to 30 m, the Primary range offers great flexibility in configuring your systems. (Fig.2)

Guaranteed efficiency

The performance of our Primary ducted unit range is guaranteed in Heating mode down to an outside temperature of -15°C. DC Inverter technology precisely adjusts the power needed to heat residential or public buildings, and ensures the comfort and durability of the system.

Auto-restart after a power outage

When power is restored after a power outage, all pre-settings are kept and the air-conditioning will run under the previous settings.

Fig. 1

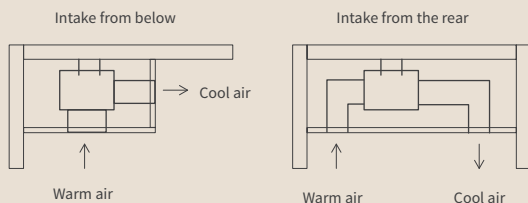
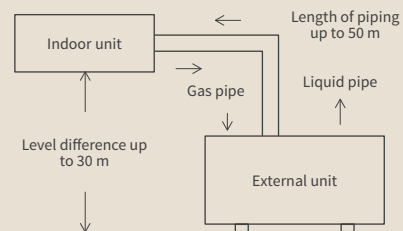


Fig. 2



Indoor units

Outdoor units



Primary R32

		6.9 kW	8.5 kW	10.1 kW	12.5 kW	14.1 kW	12.1 kW	14.2 kW	17.1 kW	
Performance, cooling	Unit	3 HP	3.5 HP	4 HP	5 HP	6 HP	5 HP	6 HP	6.5 HP	
Nominal cooling capacity (min-max)	kW	6.90 (2.45 - 7.85)	8.50 (4.00 - 9.50)	10.10 (3.50 - 11.00)	12.50 (3.30 - 13.20)	14.10 (3.20 - 16.00)	12.10 (3.30 - 13.20)	14.19 (3.20 - 16.00)	17.10 (3.30 - 18.50)	
UK total cooling (sensible)	kW	7.45 (4.17)	9.18 (5.14)	10.91 (6.11)	13.50 (7.56)	15.23 (9.29)	13.07 (7.32)	15.33 (9.35)	18.47 (10.35)	
Rated power input Cooling (min-max)	kW	2.16	2.67	3.80	4.22	4.78	4.22	4.78	6.60	
EER	-	3.19	3.18	2.66	2.85	2.95	2.87	2.97	2.59	
Energy class Cooling	-	A++			-					
SEER (average climate)	-	6.29	6.20	6.10	6.10	5.94	6.28	5.94	5.81	
Annual power consumption	kWh/year	395	499	577	698	829	761	849	943	
Working range in Cooling	°C	-15°C / +48°C								
Performance, heating										
Nominal heating capacity (min-max)	kW	8.3 (2.20 - 8.70)	9.00 (3.50 - 9.40)	10.50 (3.50 - 11.00)	12.80 (3.00 - 14.60)	16.50 (3.40 - 18.50)	13.4 (3.00 - 14.60)	13.4 (3.00 - 14.60)	18 (3.00 - 19.50)	
Heating capacity at -7°C ⁽¹⁾	kW	4	5.6	6.5	8.4	9.9	8.4	9.9	11.1	
Rated power input Heating (min-max)	kW	2.22	2.40	3.50	3.82	4.65	4.07	4.65	6.10	
COP	-	3.74	3.75	3	3.35	3.40	3.29	3.47	2.95	
Energy class Heating	-	A			-					
SCOP (average climate)	-	4.05	4.00	3.92	3.70			3.72		
Annual power consumption	kWh/year	2007	2313	2926	3392	4503	3674	4694	4205	
Working range in Heating	°C	-15°C / +24°C								
Indoor units										
		RPII-3.0UFE1NH	RPII-3.5UFE1NH	RPII-4.0UFE1NH	RPII-5.0UFE1NH	RPII-6.0UFE1NH	RPII-5.0UFE1NH	RPII-6.0UFE1NH	RPII-6.5UFE1NH	
Sound pressure in Cooling mode (L / M / H) ⁽²⁾	dB(A)	31 / 34 / 38	33 / 38 / 41	38 / 40 / 42	37 / 40 / 43	42 / 45 / 47	37 / 40 / 43	42 / 45 / 47	43 / 45 / 48	
Sound power in Cooling mode	dB(A)	61	63	65	69	77	69	77		
Airflow in Cooling mode (L / M / H)	m ³ /h	490 / 700 / 1000	900 / 1120 / 1450	1400 / 1600 / 1800	1300 / 1500 / 1750	1900 / 2200 / 2400	1300 / 1500 / 1750	1900 / 2200 / 2400		
Rated available static pressure (min-max)	Pa	25.0 (0 - 40)	37.0 (0 - 120)			50.0 (0 - 120)				
Dimensions (H x L x D)	mm	190 x 1180 x 445	268 x 1140 x 720			350 x 1300 x 800				
Net weight	kg	24.0	37.5			51				
Condensate pump	-	Included								
Condensate outlet diameter (ext.)	mm	32								
Air filter	-	Included								
Remote control	-	Wired programmable unit included (HCWA21NEHH)								
Outdoor units										
	Unit	RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESNH1	RAS-6.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1	
Sound pressure in Cooling mode	dB(A)	54	54	58	62			67		
Sound power in Cooling mode	dB(A)	69	70		76			80		
Airflow (cooling)	m ³ /h	3150		3800	5800	6300	5800	6300		
Dimensions (H x L x D)	mm	670 x 860 x 310		840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340		
Net weight	kg	49.0		70.0	85.0	101.5	85.0	101.5	109.0	
Compressor	-	Inverter rotary unit								
Refrigeration characteristics										
Diameter of pipes (Liq / Gas)	inches	3/8" / 5/8"			3/8" / 3/4"					
Initial refrigerant charge	kg/TeqCO ₂	1.40 / 0.95	1.45 / 0.98	2.00 / 1.35	2.50 / 1.69	3.00 / 2.03	2.50 / 1.69	3.00 / 2.03	3.40 / 2.30	
Pre-charged for	m					5				
Max. pipe length	m					50				
Additional charge	g/m					28				
Max. level difference (outdoor unit above / outdoor unit below)	m					30 / 30				
Refrigerant	-	R32								
Electrical features, outdoor unit										
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz				400V / 3Ph / 50Hz				
Max. current	A	18.1	18.0	22.5	28.2	30.0		11.6		
Recommended fuse size	A	25		40	50		32			
Cable width (EN 60 335-1) ⁽³⁾	mm ²	3 x 2.5		3 x 4	3 x 6		5 x 2.5			
Indoor/outdoor connection (shielded)	mm ²					4 x 1.5				

⁽¹⁾ Data includes defrosting.⁽²⁾ Sound pressure measurements were made 1.4 meters from the unit without obstructions (see the technical catalogue).⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Compatible controls and accessories



Wired programmable remote control

HCWA21NEHH

Included



Infrared remote control

HRBA31NEGH



H-Link interface

HCAA01NEWI



Group Adapter

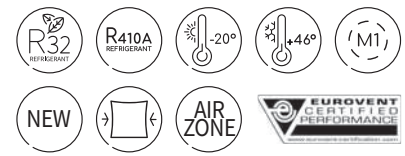
HDBA21NEWH

Discover Primary



Utopia Prime ducted unit

A solution with R410A or R32 for projects of any technical specification



Compact

Our indoor ducted units benefit from an extra small height of just 24 cm.

Integrated condensate pump

Hitachi ducts are equipped as standard with a condensate extraction pump of up to 850 mm, providing more flexibility when installing.

Flexible air intake from below or from the back

This solution offers true installation flexibility depending on the type of configuration. You can move the intake – from below or from the rear on sizes 3 to 6 HP. (Fig. 1)

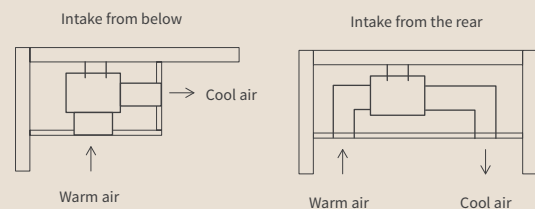
Large static pressure control range

Static pressure available up to 150 Pa, with 3 possible levels, including zero pressure to blow on the vent.

Compatible with Airzone

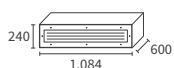
A single indoor ducted unit serves up to 6 zones separately thanks to Airzone's motorized plenums and management solutions (see p130).

Fig. 1

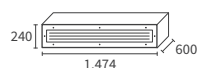


Indoor units

Outdoor units



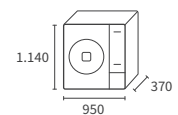
RPI-3.0FSRE



RPI-4.0FSRE
RPI-5.0FSRE
RPI-6.0FSRE



RAS-3HVRC2



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

Utopia Prime ducted unit

Refrigerant R32						Refrigerant R410A			
		7.1 kW	10 kW	12.5 kW	14 kW	10 kW	12.5 kW	14 kW	
Performance, cooling	Unit	3 HP	4 HP	5 HP	6 HP	4 HP	5 HP	6 HP	
Nominal cooling capacity (min-max)	kW	7.10	10.00	11.90	14.00	10.00	11.90	14.00	
UK total cooling capacity (UK sensible)	kW	7.41 (5.25)	10.30 (8.65)	12.70 (10.54)	13.60 (11.29)	10.30 (8.65)	12.70 (10.54)	13.60 (11.29)	
Rated power input cooling	kW	2.04	2.76	3.65	4.53	3.08	4.06	4.55	
EER	-	3.47	3.62	3.26	3.09	3.24	2.92	3.08	
Seasonal energy class Cooling	-	A++			A++	A++	A+	-	
SEER (average climate)	-	6.70	6.44(V) - 6.17	6.10(V) - 5.89	5.67(V) - 5.64	6.21(V) - 5.96	5.87(V) - 5.68	5.67(V) - 5.64	
Working range in Cooling ⁽³⁾	°C	-15°C / +46°C (DB)							
Performance, heating									
Nominal heating capacity (min-max)	kW	8.00	11.20	14.00	16.00	11.20	14.00	16.00	
Heating capacity at -7°C*	kW	6.40	10.20	11.90	13.30	10.20	11.90	13.30	
Rated power input heating	kW	2.20	3.01	4.09	3.64	3.01	4.09	3.64	
COP	-	3.63	3.71	3.42	4.40	3.71	3.42	4.40	
Seasonal energy class Heating	-	A	A+	A+	-	A+	A	-	
SCOP (average climate)	-	3.92	4.04	4.03	3.96	4.09	3.93	3.96	
Working range in Heating	°C	-20°C / +18°C (WB)							
Indoor units									
		RPI-3.0FSRE	RPI-4.0FSRE	RPI-5.0FSRE	RPI-6.0FSRE	RPI-4.0FSRE	RPI-5.0FSRE	RPI-6.0FSRE	
Sound pressure in Cooling mode (L / M / H) ⁽²⁾	dB(A)	28 / 33 / 35	33 / 38 / 39	34 / 38 / 40	34 / 38 / 40	33 / 38 / 39	34 / 38 / 40	34 / 38 / 40	
Sound power	dB(A)	59	62	64	64	62	64	64	
Airflow in Cooling mode (L / M / H)	m³/h	960 / 1140 / 1290	1680 / 2070 / 2160	1920 / 2100 / 2220	1950 / 2130 / 2250	1680 / 2070 / 2160	1920 / 2100 / 2220	1950 / 2130 / 2250	
Static pressure (min-max)	Pa	30 (0-150)	37 (0-150)	50 (0-150)	50 (0-150)	37 (0-150)	50 (0-150)	50 (0-150)	
Condensate pump included	-	yes			yes				
Max. elevation	mm	850			850				
Dimensions (H x L x D)	mm	240 x 1084 x 600		240 x 1474 x 600					
Weight	kg	32		42					
Condensate outlet diameter (ext)	mm	32							
Power supply	-	1~ 230V 50Hz			1~ 230V 50Hz				
Recommended fuse size	A	5							
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 0.75			3 x 0.75				
Remote control	-	PC-ARFP1E							
Outdoor units									
		RAS-3HVC2	RAS-4H(V)RC2E	RAS-5H(V)RC2E	RAS-6H(V)RC2E	RAS-4H(V)NC2E	RAS-5H(V)NC2E	RAS-6H(V)NC2E	
Sound pressure in Cooling mode (Night mode) ⁽²⁾	dB(A)	54 (48)	54 (51)	54 (51)	56 (51)	54 (51)	54 (51)	56 (51)	
Sound power	dB(A)	69	70	70	72	70	70	72	
Airflow (Cooling / Heating)	m³/h	2700		4800					
Dimensions (H x L x D)	mm	629 x 799 x 300		1140 x 950 x 370					
Net weight	kg	48		86 (84)					
Compressor	-	Inverter DC rotary unit							
Refrigeration characteristics									
Diameter of pipes (Liq / Gas)	mm (inches)	9.52 (3/8) - 15.88 (5/8)						9.52 (3/8) - 15.88 (5/8)	
Initial refrigerant charge	kg	1.7		3.0					
Pre-charged for	m	20			20				
Min. length	m	5							
Max. length / Additional charge	m/g/m	50 / 45		75 / 45					
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 20			30 / 20				
Refrigerant	-	R32							
Electrical features, outdoor unit									
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz	2~ 230V 50Hz or 3N~ 400V 50Hz	3~ 230V 50Hz or 3N~ 400V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz			
Max. current	A	15.8		22.5 or 15					
Recommended fuse size	A	20		25 or 20					
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 4.00		3 x 6.00 or 5 x 4.00					
Indoor/outdoor connection (shielded)	mm²	2 x 0.75							

⁽¹⁾ Data shown is for indication purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

⁽²⁾ Sound levels (pressure) are measured in an anechoic chamber at 1.50 m below the unit (no ceiling under the unit), with an extraction duct at 1 m and a discharge duct at 2 m.

⁽³⁾ To ensure a cooling mode at -15°C, this option must be activated.

* Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

(V) Single-phase version.

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



Simple wired controller
PC-ARH1E



Infrared controller
PC-AWR

Other (price excluding taxes):

- Remote sensor THM-R2AE
- Adjustable input/output contact connections PCC-1A
- Condensate drainage kit DDB-26 (4-6 HP) models
DDB-12L (3HP models):
- Motion sensor for low-height ducted unit SOR-MSK



Hard wired controller
PC-ARFP1E

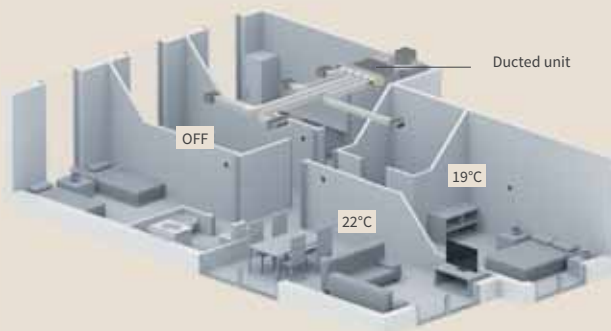
Zoning solution

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

With a single ducted unit, you can control up to 6 rooms separately thanks to motorized plenums that fit directly onto Hitachi units.



Perfect for use in residential and public buildings



Detached house



Offices

Enjoy a whole range of benefits with our zoning solution!

Easy to install

- Plug & Play solution.
- Motorized plenums are pre-wired.
- Limited number of indoor units to install.

More comfort

- Control up to 6 rooms separately.
- Control the temperature in increments of 0.5°C.
- Maintain the temperature within 3°C in heating and cooling mode.
- Fresh air inlet optional on standard models.

Perfect for new builds and renovations

- Reversible version for year-round comfort.

Connected and intuitive interfaces



Airzone Blueface thermostat

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



Airzone Think thermostat

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



Airzone Lite thermostat

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



Webserver Airzone Cloud

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

Interface	Airzone Blueface	Airzone Think	Airzone Lite	Webserver Airzone Cloud
Part number	AZCE6BLUEFACEB	AZCE6THINKCB	AZCE6LITECB	AZX6WSCLOUDDINC
Wireless connection	-	AZCE6THINKRB	AZCE6LITERB	AZX6WSCLOUDDINR
10m cable	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10

Motorized fan blower plenums

	Part numbers for ducted units	Power	Plenum model	Motorized fan blower plenums						Intake plenum
				2 outlets	3 outlets	4 outlets	5 outlets	6 outlets		
Residential use	RAD-RPE	5.0 kW 6.0 kW 7.0 kW	Standard	AZEZ6HITST032 930 x 300 x 454	AZEZ6HITST033 930 x 300 x 454	AZEZ6HITST03M4 1140 x 300 x 454	AZEZ6HITST03M5 1425 x 300 x 454	AZEZ6HITST03M6 1638 x 300 x 454	AZEZHPR03M 818 x 223.8 (2x D250)	
			Medium	AZEZ6HITDB032 930 x 250 x 454	AZEZ6HITDB033 930 x 250 x 454	AZEZ6HITBS03M4 1140 x 250 x 454	AZEZ6HITBS03M5 1425 x 250 x 454	AZEZ6HITBS03M6 1638 x 250 x 454		
	RAD-RPE	2.5 kW 3.5 kW	Standard	AZEZ6HITST04S2 930 x 300 x 454	AZEZ6HITST04S3 930 x 300 x 454	AZEZ6HITST04S4 1140 x 300 x 454	-	-	AZEZHPR04S 647.2 x 208.1 (1x D250)	
			Medium	AZEZ6HITBS04S2 930 x 250 x 454	AZEZ6HITBS04S3 930 x 250 x 454	AZEZ6HITBS04S4 1140 x 250 x 454	-	-		

Two versions of plenums are available: standard version (300 mm) and medium version with fresh air function (250 mm). The dimensions of the plenums are shown under the Part number

Easy and quick to install, the cassette unit is the ideal solution for offices as well as public buildings. Available in 600 x 600 or 800 x 800 versions, their 4 independent louvres provide the ultimate comfort. Pre-charged with R32 or R410A, our ranges will meet any regulatory constraints your project may be subject to.



Cassette unit Mono-split



Selection guide

R32 Light commercial cassette



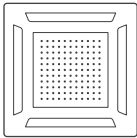
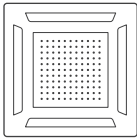
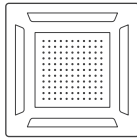

Primary R32



Utopia Prime cassette

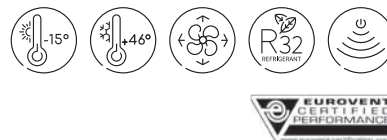


NEW

	Light commercial cassette	Primary R32	Utopia Prime cassette
			
			
Refrigerant	R32	R32	R410A and R32
Dimensions	620 x 620		950 x 950
Applications		Business Public	
Rated power, cooling (kW)	2.5 3.5 5.0 6.0	7.0 8.7 10.1 12.7 14.0 12.1 13.8 16.9	7.1 10.0 12.5 14.0
Supply voltage	Single-phase	Single-phase (3/3.5/4/5/6Hp) Three-phase (5/6/6.5Hp)	Single-phase (up to 6Hp) Three-phase (4 to 6Hp)
SEER (up to)	6.50	6.73	7.33
Energy classes Heating / Cooling	A+ / A++	A+ / A++	A+ / A++
Cooling up to	+46°C	+48°C	+46°C
Heating down to	-15°C	-15°C	-20°C
Discretion	++	+	+
Motion sensor	Yes	-	Option

R32 Light commercial Cassette

Appearance and comfort



Condensate pump included

The cassette unit for small commercial buildings incorporates its own condensate pumps to remove condensation automatically, without the need for any other add-ons. (Fig. 1)

Motion sensor

An air-conditioning unit without unnecessary consumption thanks to the motion sensor that gradually decreases the energy consumption of the equipment when the room is empty and restarts it when it detects people moving.

Improved comfort

On this equipment you can choose where to measure the setting temperature (at the remote control or the return or using the average of both readings). This feature provides superior comfort in the room.

Flexible installation

With a 30-m long pipe run between the indoor unit and the outdoor unit, this equipment can be installed in any part of the building. What's more, the level difference between the two can be up to 20 m. 600 x 600 mm in size, they can be integrated into standard ceiling panels.

Compatible with the airCloud remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the indoor unit.

Individual control of the louvres

The 4 louvres in the cassette unit can be configured individually with the SPX-WKT4 so that each one works differently: blowing air directly towards the user, directing air at the ceiling or at the floor, etc. Comfort is guaranteed. (Fig. 2)

Fig. 1

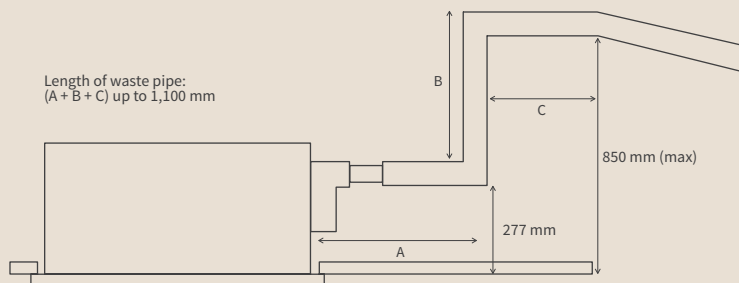
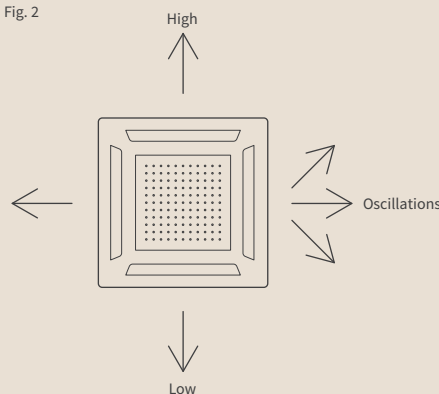
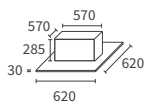


Fig. 2

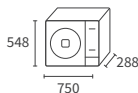


Indoor units

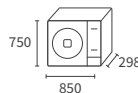


RAI-25RPE RAI-50RPE
RAI-35RPE RAI-60RPE

Outdoor units



RAC-25NPE
RAC-35NPE



RAC-50NPE
RAC-60NPE

R32 Light commercial Cassette

Performance, cooling	Unit	2.5 kW	3.5 kW	5.0 kW	6.0 kW
Nominal cooling capacity (min-max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
UK total cooling capacity (UK sensible)	kW	1.86 (1.79)	2.61 (2.01)	4.32 (3.06)	5.30 (3.51)
Rated power input Cooling (min-max)	kW	0.595 (0.25 - 1.29)	0.875 (0.25 - 1.46)	1.420 (0.30 - 2.50)	1.710 (0.30 - 2.60)
EER	-	4.20	4.00	3.52	3.51
Energy class Cooling	-	A++			
SEER (average climate)	-	6.20	6.50	6.20	
Working range in Cooling	°C	-10°C / +46°C		-15°C / +46°C	
Performance, heating	Unit	2.5 kW	3.5 kW	5.0 kW	6.0 kW
Nominal heating capacity (min-max)	kW	3.50 (0.90 - 5.00)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Heating capacity at -7°C ⁽¹⁾	kW	2.70	3.20	4.20	4.80
Rated power input Heating (min-max)	kW	0.875 (0.25 - 1.50)	1.230 (0.25 - 1.92)	1.570 (0.30 - 2.65)	1.840 (0.30 - 2.65)
COP	-	4.00	3.90	3.82	3.80
Energy class Heating	-	A+			
SCOP (average climate)	-	4.30		4.40	
Working range in Heating	°C	-15°C / +24°C			
Indoor units	Unit	RAI-25RPE	RAI-35RPE	RAI-50RPE	RAI-60RPE
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	27 / 31 / 35 / 38	27 / 33 / 37 / 40	29 / 35 / 39 / 43	
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	28 / 32 / 36 / 39	28 / 34 / 38 / 41	30 / 36 / 40 / 44	
Sound power in Cooling mode	dB(A)	54		56	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	360 / 505 / 590 / 660		390 / 540 / 630 / 720	
Dehumidification	l/h	1.4	1.8	2.8	3.8
Dimensions (H x L x D)	mm	285 x 570 x 570			
Fascia panel dimensions (H x L x D)	mm	30 x 620 x 620			
Net weight	kg	17			
Net weight of fascia panel	kg	2.8			
Condensate outlet diameter (ext)	mm	32			
Condensate pump	-	Included			
Fascia panel part no.	-	P-AP56NAMS	P-AP56NAMS	P-AP56NAMS	P-AP56NAMS
Remote control	-	Not included (SPX-RCKA3 / SPX-RCDB1 / SPX-WKT4)			
Outdoor units	Unit	RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE
Sound pressure in Cooling mode ⁽²⁾	dB(A)		48		50
Sound power in Cooling mode	dB(A)		61		65
Airflow (Cooling / Heating)	m ³ /h		1920 / 1620		2160 / 2160
Dimensions (H x L x D)	mm		548 x 750 x 288		750 x 850 x 298
Net weight	kg		32.5		50
Compressor	-				Rotary
Refrigeration characteristics	Unit	RAC-25NPE		RAC-35NPE	
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"		1/4" / 1/2"	
Initial refrigerant charge	kg	0.86		1.50	
Pre-charged for	m	20		30	
Min. length	m			3	
Max. length / Additional charge	m/g/m	20 / -		30 / -	
Max. level difference (outdoor unit above / outdoor unit below)	m	10 / 10		20 / 20	
Refrigerant	-	R32			
Electrical features	Unit	230V / 1Ph / 50Hz			
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz			
Max. current	A	5.92	6.70	7.21	8.45
Recommended fuse size	A	15		20	
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2 x 1.50 + E		2 x 2.50 + E	
Indoor/outdoor connection (shielded)	mm ²	3 x 1.50 + E		3 x 1.50 + E	

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

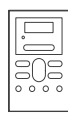
⁽²⁾ Sound pressure measurements were made 1.5 meters from the unit without obstructions (see the technical catalogue).

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Controls and compatible accessories (see page 161)



Infrared remote control
SPX-RCKA3



Wired standard remote control
SPX-RCDB1

Other:

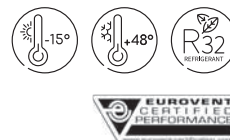
- Control box for multi-indoor units
SPX-DST1 + SPX-WDST8M
- airCloud Home SPX-WFG02 interface
- Hi-Box AHP-SMB-01
- Hi Kumo gateway for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3



Wired programmable remote control
SPX-WKT4



H-Link box
PSC-6RAD



Primary R32

Best value for money



Adjust the temperature

On the cassette model, you can set the right temperature via a wired remote control. This function compensates for air stratification, ensuring comfort throughout rooms of any size. (Fig. 1)

Guaranteed efficiency

The performance of our Primary cassette unit range is guaranteed in Heating mode down to an outside temperature of -15°C. DC Inverter technology precisely adjusts the heating required, and ensures the comfort and durability of the system.

NEW Versatile

Up to 8 indoor units connected to a single remote control (with HDBA21NEWH + HCWA21NEHH). See diagrams on p168.

Receiver for the infrared remote control

Located on the fascia to receive the signal of the remote control (Fig. 2)

Fresh air inlet

There is a fresh air inlet to improve indoor air quality.

Designed for comfort or technical applications

The unit has free contacts as standard to issue error reports or remotely stop/start the system. Ideal for installation in a technical room.

Fig. 1

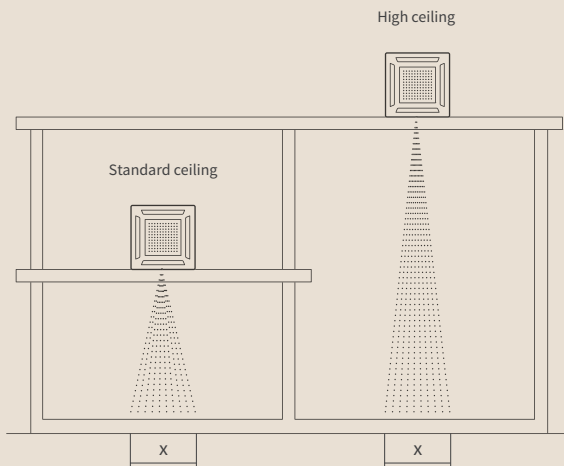
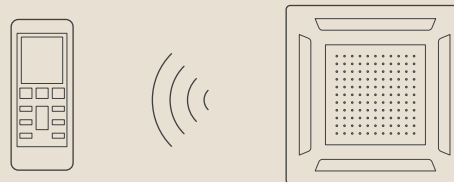
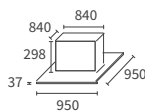
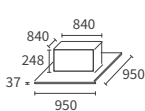


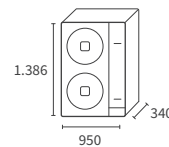
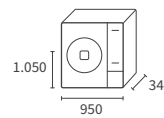
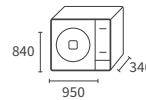
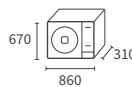
Fig. 2



Indoor units



Outdoor units



RCI-3.0UFE1NH
RCI-3.5UFE1NH
RCI-4.0UFE1NH

RCI-5.0UFE1NH
RCI-6.0UFE1NH
RCI-6.5UFE1NH

RAS-3.0UFESNH1
RAS-3.5UFESNH1

RAS-4.0UFESNH1

RAS-5.0UFESNH1
RAS-5.0UFESMH1

RAS-6.0UFESNH1
RAS-6.5UFESMH1

Primary R32

Performance, cooling	Unit	7.0 kW	8.7 kW	10.1 kW	12.7 kW	14.0 kW	12.1 kW	13.9 kW	16.9 kW	
		3 Hp	3.5 Hp	4 Hp	5 Hp	6 Hp	5 Hp	6 Hp	6.5 Hp	
Nominal cooling capacity (min-max)	kW	7.00 (2.45 - 7.85)	8.70 (4.00 - 9.50)	10.10 (3.50 - 11.00)	12.70 (3.30 - 13.20)	14.00 (3.40 - 16.20)	12.10 (3.30 - 13.20)	13.89 (3.40 - 16.20)	16.90 (3.30 - 18.00)	
UK total cooling (UK sensible)	kW	7.56 (4.23)	9.40 (5.26)	10.91 (6.11)	13.72 (7.68)	15.12 (9.23)	13.07 (7.32)	15.02 (9.35)	18.26 (10.22)	
Rated power input Cooling	kW	1.91	2.71	3.71	4.31	5.00	4.25	4.81	6.73	
EER	-	3.66	3.21	2.72	2.95	2.80	2.85	2.89	2.51	
Energy class Cooling	-	A++								
SEER (average climate)	-	6.73	6.10	6.10	5.90	5.70	6.05	5.64	5.60	
Annual power consumption	kWh/year	388	511	580	705	859	757	894	883	
Working range in Cooling	°C	-15°C / +48°C								
Performance, heating										
Nominal heating capacity (min-max)	kW	8.25 (2.20 - 8.70)	9.00 (3.50 - 9.40)	11.20 (3.50 - 11.00)	13.30 (3.00 - 14.60)	15.80 (3.70 - 18.00)	13.50 (3.00 - 14.60)	16.53 (3.70 - 18.00)	19.49 (3.00 - 21.00)	
Heating capacity at -7°C ⁽¹⁾	kW	4.50	5.55	6.50	8.70	10.50	8.70	10.50	11.90	
Rated power input Heating	kW	2.03	2.25	3.50	3.86	4.95	3.86	4.95	6.74	
COP	-	4.07	4.00	3.20	3.45	3.19	3.65	3.51	2.89	
Energy class Heating	-	A+		A						
SCOP (average climate)	-	4.33	4.20	3.92	3.80	3.75	3.98	3.81	3.87	
Annual power consumption	kWh/year	1907	2423	3018	3305	4765	3675	5086	4037	
Working range in Heating	°C	-15°C / +24°C								
Indoor units										
		RCI-3.0UFE1NH	RCI-3.5UFE1NH	RCI-4.0UFE1NH	RCI-5.0UFE1NH	RCI-6.0UFE1NH	RCI-5.0UFE1NH	RCI-6.0UFE1NH	RCI-6.5UFE1NH	
Sound pressure in Cooling mode (L / M / H) ⁽²⁾	dB(A)	37 / 42 / 45	42 / 46 / 48	42 / 45 / 50	47 / 49 / 51	42 / 45 / 51	47 / 49 / 51	42 / 45 / 51	42 / 45 / 52	
Sound power in Cooling mode	dB(A)	59	62	65	64	65	64	65	68	
Airflow in Cooling mode (L / M / H)	m ³ /h	720 / 980 / 1180	900 / 1120 / 1400	1000 / 1300 / 1600	1550 / 1700 / 1850	1400 / 1700 / 2100	1550 / 1700 / 1850	1400 / 1700 / 2100		
Dehumidification	l/h	-								
Dimensions (H x L x D)	mm	248 x 840 x 840				298 x 840 x 840				
Fascia panel dimensions (H x L x D)	mm	37 x 950 x 950								
Net weight	kg	25	27				32			
Condensate pump	-	Included								
Condensate outlet diameter (ext)	mm	32								
Air filter	-	included								
Part number of the fascia panel	-	PHKF160SAH1								
Remote control	-	Infrared included (HRBA31NEGH)								
Outdoor units										
		RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESNH1	RAS-6.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1	
Sound pressure in Cooling mode ⁽²⁾	dB(A)	54		58	62			67		
Sound power in Cooling mode	dB(A)	69	70		76			80		
Airflow (cooling)	m ³ /h	3150		3800	5800	6300	5800	6300		
Dimensions (H x L x D)	mm	670 x 860 x 310		840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340		
Net weight	kg	49.0		70.0	85.0	101.5	85.0	101.5	109.0	
Compressor	-	Inverter rotary unit								
Refrigeration characteristics										
Diameter of pipes (Liq / Gas)	inches	3/8" / 5/8"			3/8" / 3/4"					
Initial refrigerant charge	kg/TeqCO2	1.40 / 0.95	1.45 / 0.98	2.00 / 1.35	2.50 / 1.69	3.00 / 2.03	2.50 / 1.69	3.00 / 2.03	3.40 / 2.30	
Pre-charged for	m	5								
Max. pipe length	m	50								
Additional charge	g/m	28								
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 30								
Refrigerant	-	R32								
Electrical features										
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz					400V / 3Ph / 50Hz			
Max. current	A	18.1	18.0	22.5	28.2	30.0	11.6	12.1	13.1	
Recommended fuse size	A	20		32	32		16			
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2 x 2.50 + E		2 x 4.00 + E	2 x 6.00 + E		4 x 2.50 + E			
Indoor/outdoor connection (shielded)	mm ²	3 x 1.50 + E								

⁽¹⁾ Data includes defrosting.⁽²⁾ Sound pressure measurements were made 1.4m below the unit with no obstructions.⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Compatible controls and accessories



Wired programmable remote control
HCWA21NEHH



Infrared remote control
HRBA31NEGH
Included



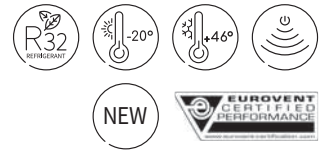
H-Link interface
HCAA01NEWI



Adapter
HDBA21NEWH

Discover Primary





Utopia Prime cassette unit

A solution with R410A or R32 for projects of any technical specification



NEW

Unrivalled comfort

Separately control each louvre and enjoy air distributed under the COANDA effect to help eliminate any discomfort.

Energy-saving

The motion sensor (optional) automatically optimizes the level of comfort while limiting the energy consumption in rooms only occupied occasionally. It continuously analyzes thermal disparities as well as the presence of people in the room, adjusting its setting temperature (down to 2°C), fan speed, and airflow direction to suit. (Fig. 1)

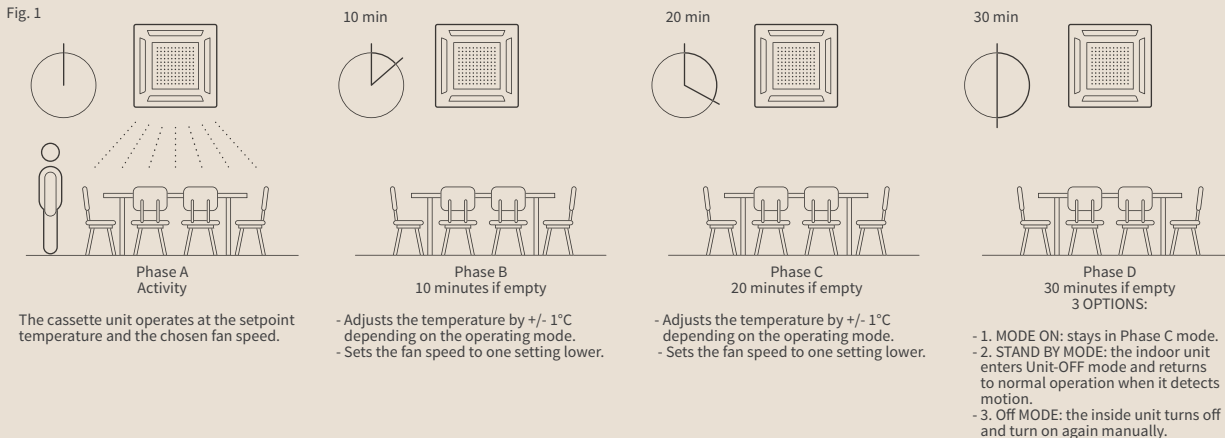
Compactness

Outdoor units are exceptionally compact, with a footprint of 0.23m².

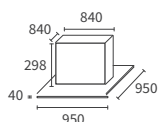
Installation time

The 800 x 800 cassette unit fits perfectly into suspended ceilings thanks to its low recess height (298 mm) as well as in high ceilings with a possible installation of up to 4.20 m, depending on the model. In addition, it is equipped as standard with a pump to remove condensation up to 850 mm.

Fig. 1

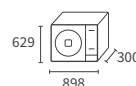


Indoor units

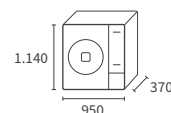


RCI-3.0FSR
RCI-4.0FSR
RCI-5.0FSR
RCI-6.0FSR

Outdoor units



RAS-3HVRC2



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

Utopia Prime cassette

Refrigerant R32						Refrigerant R410A		
Performance, cooling	Unit	7.1kW	10KW	11.9KW	14KW	10KW	11.9KW	14KW
		3 Hp	4 Hp	5 Hp	6 Hp	4 Hp	5 Hp	6 Hp
Nominal cooling capacity (min-max)	kW	7.10	10.00	12.50	14.00	10.00	12.50	14.00
UK total cooling capacity (UK sensible)	kW	7.41 (6.00)	10.30 (7.93)	12.70 (9.14)	13.60 (9.38)	10.30 (7.93)	12.70 (9.14)	13.60 (9.38)
Rated power input cooling	kW	1.80	2.56	3.38	4.32	2.86	3.78	4.91
EER	-	3.93	3.90	3.52	3.24	3.50	3.15	2.85
Seasonal energy class Cooling	-	A++	A++	A++	-	A++	A++	-
SEER (average climate)	-	7.33	6.93(V) - 6.62	6.60 (V) - 6.37	5.88(V) - 5.85	6.69(V) - 6.42	6.35 (V) - 6.13	5.88(V) - 5.85
Working range in Cooling ⁽¹⁾	°C	-15°C / +46°C (DB)				-15°C / +46°C (DB)		
Performance, heating								
Nominal heating capacity (min-max)	kW	8.00	11.20	14.00	16.00	11.20	14.00	16.00
Heating capacity at -7°C*	kW	6.07	10.34	12.13	13.15	10.34	12.13	13.15
Rated power input heating	kW	1.95	2.65	3.52	3.64	2.60	3.52	3.64
COP	-	4.11	4.23	3.98	4.40	4.30	3.98	4.40
Seasonal energy class Heating	-		A+	A+	-	A+	A+	-
SCOP (average climate)	-	4.20	4.36	4.26	4.05	4.40	4.24	4.05
Working range in Heating	°C	-20°C / +18°C (WB)				-20°C / +18°C (WB)		
Indoor units		RCI-3.0FSR	RCI-4.0FSR	RCI-5.0FSR	RCI-6.0FSR	RCI-4.0FSR	RCI-5.0FSR	RCI-6.0FSR
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	27 / 30 / 32 / 37	33 / 39 / 43 / 48	35 / 40 / 45 / 48	37 / 41 / 46 / 48	33 / 39 / 43 / 48	35 / 40 / 45 / 48	37 / 41 / 46 / 48
Sound power	dB(A)	57	64	64	65	64	64	65
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	840 / 1080 / 1380 / 1620	1200 / 1440 / 1860 / 2220	1260 / 1560 / 1980 / 2220	1320 / 1680 / 2100 / 2220	1200 / 1440 / 1860 / 2220	1260 / 1560 / 1980 / 2220	1320 / 1680 / 2100 / 2220
Condensate pump included	-	yes				yes		
Max. elevation	mm	850				850		
Dimensions (H x L x D)	mm	298 x 840 x 840				298 x 840 x 840		
Fascia panel dimensions (H x L x D)	mm	40 x 950 x 950				40 x 950 x 950		
Net weight of the unit + fascia panel	kg	26 + 6.50				26 + 6.50		
Condensate outlet diameter (ext)	mm	32				32		
Power supply	-	1~ 230V 50Hz				1~ 230V 50Hz		
Recommended fuse size	A	5				5		
Cable width (EN 60 335-1) ⁽³⁾	mm ²	3 x 0.75				3 x 0.75		
Fascia panel part no.	-	P-N23NA2				P-N23NA2		
Remote control	-	PC-ARFP1E				PC-ARFP1E		
Outdoor units		RAS-3HVRC2	RAS-4H(V)RC2E	RAS-5H(V)RC2E	RAS-6H(V)RC2E	RAS-4H(V)NC2E	RAS-5H(V)NC2E	RAS-6H(V)NC2E
Sound pressure in Cooling mode (Night mode) ⁽²⁾	dB(A)	54 (48)	54 (51)	54 (51)	56 (51)	54 (51)	54 (51)	56 (51)
Sound power	dB(A)	69	70	70	72	70	70	72
Airflow (Cooling / Heating)	m ³ /h	2700	4800	4800		4800		
Dimensions (H x L x D)	mm	629 x 799 x 300	1140 x 950 x 370			1140 x 950 x 370		
Net weight	kg	48	86 (84)			86 (84)		
Compressor	-	Inverter DC rotary unit				Inverter DC rotary unit		
Refrigeration characteristics								
Diameter of pipes (Liq / Gas)	mm (inches)	9.52 (3/8) - 15.88 (5/8)				9.52 (3/8) - 15.88 (5/8)		
Initial refrigerant charge	kg	1.7	3.0		3.2			
Pre-charged for	m	20				20		
Min. length	m	5				5		
Max. length / Additional charge	m/g/m	50 / 45	75 / 45		75 / 60			
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 20				30 / 20		
Refrigerant	-	R32				R410A		
Electrical features, outdoor unit								
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz	2~ 230V 50Hz or 3N~ 400V 50Hz	3~ 230V 50Hz or 3N~ 400V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz		
Max. current	A	15.8	22.5 or 15		22.5 or 15			
Recommended fuse size	A	20	25 or 20		25 or 20			
Cable width (EN 60 335-1) ⁽³⁾	mm ²	3 x 4.00	3 x 6.00 or 5 x 4.00		3 x 6.00 or 5 x 4.00			
Indoor/outdoor connection (shielded)	mm ²	2 x 0.75				2 x 0.75		

⁽¹⁾ Data is for guidance purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

⁽²⁾ Sound levels (pressure) are measured in an anechoic chamber at 1.50 m below the unit.

⁽³⁾ To ensure a cooling mode at -15°C, this option must be activated. (V) Single-phase version.

* Data includes defrosting. To find out the data for your project, refer to our technical catalogues. ** Performance values are stated for RCI-FSR cassette units in accordance with Eurovent benchmarks.

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



Simple wired controller
PC-ARH1E - Optional



Infrared controller
PC-AWR - Optional



Hard wired controller
PC-ARFP1E



Remote sensor
THM-R2AE



Infrared receiver
PC-ALH3



Fresh air kit
PD-75C



Motion sensor
PS-MSK2



Adjustable input/output contact connections
PCC-1A



Condensation drainage kit
DDB-26 (4Hp models)
DDB-12L (3Hp models)

With its powerful airflow, this ceiling unit is an ideal solution for offices as well as large retail spaces. Located on the ceiling, it frees up floor space.

With guaranteed heating down to -15°C for the Primary range and -20°C for the Utopia Prime range, this solution will meet all your heating needs.



Ceiling unit Mono-split



Selection guide

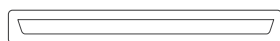
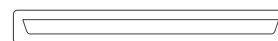
Primary R32
(Ceiling unit / Console)



Utopia Prime
(Ceiling unit)

NEW



Primary R32
(Ceiling unit / Console)

Utopia Prime
(Ceiling unit)


Refrigerant	R32	R410A or R32
Applications	Business Public	Business Public
Rated power, cooling (kW)	6.5 8.6 9.8 12.7 14.0 12.1 13.7 16.3	7.1 10.0 12.5 14.0
Supply voltage	Single phase (3 / 4 / 5 / 6 Hp) Three phase (5 / 6 / 6.5 Hp)	Single phase (3 / 4 / 5 / 6 Hp) Three phase (4 / 5 / 6 Hp)
SEER (up to)	6.10	7.02
Heating/cooling energy classes	A+ / A++	A+ / A++
Cooling down to	-15°C	-15°C
Heating down to	-15°C	-20°C
Max. length/level difference (m) outdoor unit to indoor unit	50 / 30	75 / 30



Primary R32 (Ceiling unit / Console)

Best value for money



Versatile: unit can be floor or ceiling-mounted

The Primary Hitachi console can be either floor or ceiling-mounted, allowing the user to choose the most suitable location in the room for the best thermal comfort. (Fig. 1)

NEW Versatile

Up to 8 indoor units connected to a single remote control (with HDBA21NEWH + HCWA21NEHH). See diagrams on p168.

Guaranteed efficiency

The performance of our Primary ceiling unit range is guaranteed in Heating mode down to an outside temperature of -15°C. DC Inverter technology precisely adjusts the power needed to condition a space, and ensures the comfort and durability of the system.

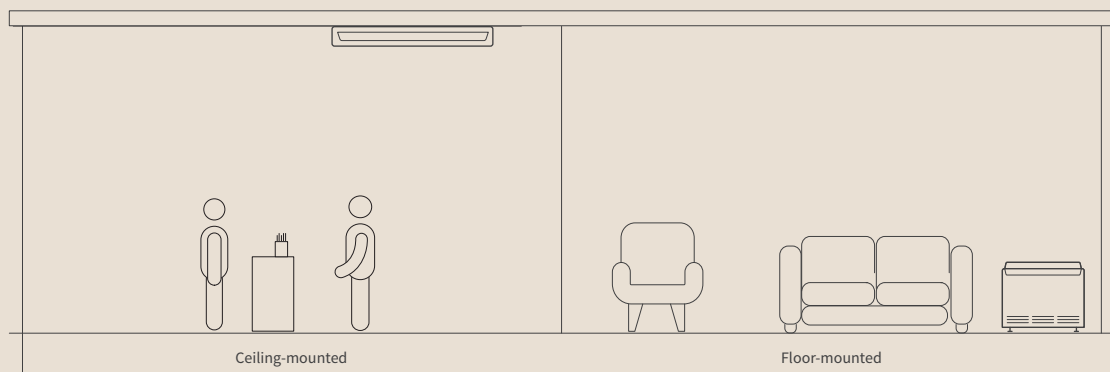
Designed for comfort or technical applications

The unit has free contacts as standard to issue error reports or remotely stop/start the system. Ideal for installation in a technical room.

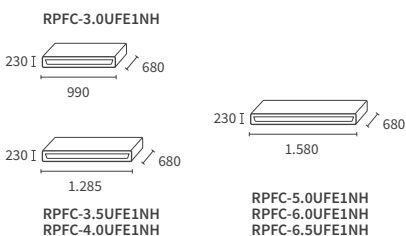
Fresh air inlet

The optional fresh air inlet improves indoor air quality.

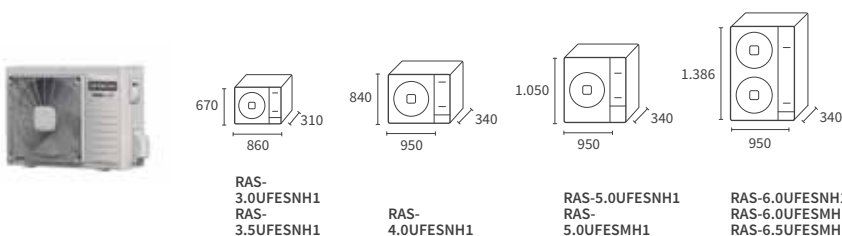
Fig. 1



Indoor units



Outdoor units



Primary R32 (ceiling unit / console)

Performance, cooling	Unit	6.5kW	8.6kW	9.8kW	12.7kW	14.0kW	12.1kW	13.8kW	16.3kW	
		3 Hp	3.5 Hp	4 Hp	5 Hp	6 Hp	5 Hp	6 Hp	6.5 Hp	
Nominal cooling capacity (min-max)	kW	6.50 (2.45 - 7.85)	8.60 (3.50 - 9.00)	9.80 (3.50 - 11.00)	12.70 (3.30 - 13.20)	14.00 (3.10 - 16.10)	12.10 (3.30 - 13.20)	13.76 (3.10 - 16.10)	16.30 (3.30 - 18.00)	
UK total cooling (UK sensible)	kW	7.02 (3.93)	9.29 (5.20)	10.59 (5.93)	13.72 (7.68)	15.12 (9.23)	13.07 (7.32)	14.87 (9.07)	17.61 (9.86)	
Rated power input Cooling	kW	1.94	2.95	3.75	4.53	5.15	4.40	5.00	6.82	
EER	-	3.35	2.92	2.61	2.80	2.72	2.75		2.39	
Energy class Cooling	-	A+	A++	A+			-			
SEER (average climate)	-	5.81	6.10	5.87	5.93	5.45	5.70	5.33	5.30	
Annual power consumption	kWh/year	391	509	585	709	899	803	940	876	
Working range in Cooling	°C	-15°C / +48°C								
Performance, heating										
Nominal heating capacity (min-max)	kW	7.35 (2.20 - 8.70)	8.70 (3.50 - 9.50)	10.50 (3.32 - 12.00)	13.30 (3.00 - 14.60)	16.50 (3.60 - 18.00)	13.50 (3.00 - 14.60)	16.59 (3.60 - 18.00)	18.00 (3.00 - 19.00)	
Heating capacity at -7°C ⁽¹⁾	kW	4	5.6	6.5	8.4	10	8.4	10	11.1	
Rated power input Heating	kW	2.07	2.30	3.65	4.04	5.40	4.17	4.85	6.82	
COP	-	3.55	3.78	2.88	3.29	3.06	3.24	3.42	2.64	
Energy class Heating	-	A+		A						
SCOP (average climate)	-	4.01	4.10	3.82	3.78	3.68	3.78	3.55	3.78	
Annual power consumption	kWh/year	2168	2192	2825	3133	4887	3868	5015	4509	
Working range in Heating	°C	-15°C / +24°C								
Indoor units										
		RPFC-3.0UFE1NH	RPFC-3.5UFE1NH	RPFC-4.0UFE1NH	RPFC-5.0UFE1NH	RPFC-6.0UFE1NH	RPFC-5.0UFE1NH	RPFC-6.0UFE1NH	RPFC-6.5UFE1NH	
Sound pressure in Cooling mode (L / M / H) ⁽²⁾	dB(A)	44 / 48 / 51	43 / 48 / 54	51 / 52 / 54	48 / 51 / 54	46 / 52 / 58	48 / 51 / 54	46 / 52 / 58	48 / 53 / 56	
Sound power in Cooling mode	dB(A)	65	65	65	68	75	68	75	74	
Airflow in Cooling mode (L / M / H)	m ³ /h	800 / 950 / 1100	900 / 1120 / 1450	1300 / 1500 / 1700	1600 / 1800 / 2000	1200 / 1600 / 2000	1600 / 1800 / 2000	1200 / 1600 / 2000	1500 / 1700 / 2000	
Dehumidification	l/h	1.95	3.20	4.40	5.30	6.00	5.30	6.00	6.40	
Dimensions (H x L x D)	mm	230 x 990 x 680	230 x 1285 x 680		230 x 1580 x 680					
Net weight	kg	30	37		48					
Condensate pump, optional	-	P26(E)-2				P26(E)-3				
Condensate outlet diameter (ext.)	mm	25								
Air filter	-	included								
Remote control	-	Infrared included (HRBA31NEGH)								
Outdoor units										
		RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESNH1	RAS-6.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1	
Sound pressure in Cooling mode ⁽²⁾	dB(A)	54		58			62		67	
Sound power in Cooling mode	dB(A)	69	70			76			80	
Airflow (cooling)	m ³ /h	3150		3800	5800	6300	5800	6300		
Dimensions (H x L x D)	mm	670 x 860 x 310		840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340		
Net weight	kg	49.0		70.0	85.0	101.5	85.0	101.5	109.0	
Compressor	-	Inverter rotary unit								
Refrigeration characteristics										
Diameter of pipes (Liq / Gas)	inches	3/8" / 5/8"			3/8" / 3/4"					
Initial refrigerant charge	kg/TeqCO ₂	1.40 / 0.95	1.45 / 0.98	2.00 / 1.35	2.50 / 1.69	3.00 / 2.03	2.50 / 1.69	3.00 / 2.03	3.40 / 2.30	
Pre-charged for	m	5								
Max. pipe length	m	50								
Additional charge	g/m	28								
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 30								
Refrigerant	-	R32								
Electrical features										
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz					400V / 3Ph / 50Hz			
Max. current	A	18.1	18.0	22.5	28.2	30.0	11.6	12.6	13.6	
Recommended fuse size	A	20		32	32		16			
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2 x 2.5 + E		2 x 4 + E	2 x 6 + E		4 x 2.5 + E			
Indoor/outdoor connection (shielded)	mm ²	3 x 1.5 + E								

⁽¹⁾ Data includes defrosting.

⁽²⁾ Sound pressure measurements were made 1.0m below the unit with no obstructions.

⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Compatible controls and accessories



Wired programmable remote control
HCWA21NEHH



Condensate drainage pump
P26(E)-2 (3 ; 3.5 ; 4Hp) / P26(E)-3 (5 ; 6 ; 6.5Hp)



H-Link interface
HCAA01NEWI



Infrared remote control
HRBA31NEGH
Included



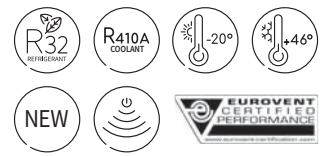
Adapter
HDBA21NEWH

Discover Primary



Utopia Prime ceiling unit

A solution with R410A or R32 for projects of any technical specification



NEW

Compactness

Outdoor units are exceptionally compact, with a footprint of 0.23m².

Easy to install

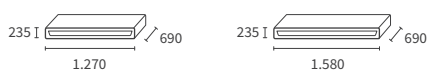
We have a number of solutions to help your installation:

- Choice of supply voltage
- Extensive range of functions
- Extra long pipe runs
- Start/Stop contacts and fault reports
- Compatible with all System Free control systems

Energy-saving

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

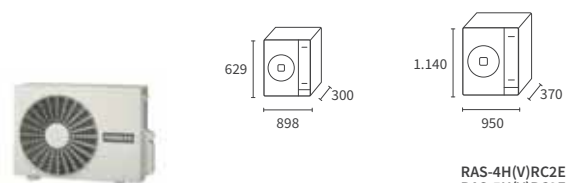
Indoor units



RPC-3.0FSR

RPC-4.0FSR
RPC-5.0FSR
RPC-6.0FSR

Outdoor units



RAS-3HVRC2

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

Utopia Prime ceiling unit

R32 refrigerant						R410A refrigerant			
Performance, cooling	Unit	7.1kW	10KW	11.9KW	14KW	10KW	11.9KW	14KW	
		3 Hp	4 Hp	5 Hp	6 Hp	4 Hp	5 Hp	6 Hp	
Nominal cooling capacity	kW	7.10	10.00	11.90	14.00	10.00	11.90	14.00	
UK total cooling capacity (UK sensible)	kW	7.41 (5.33)	10.30 (7.93)	12.70 (9.02)	13.60 (9.38)	10.30 (7.93)	12.70 (9.02)	13.60 (9.38)	
Rated power input cooling	kW	1.82	2.88	3.88	4.38	3.23	4.34	4.98	
EER	-	3.91	3.47	3.06	3.20	3.10	2.74	2.81	
Seasonal energy class Cooling	-	A++	A+	A+	-	A+	A+	-	
SEER (average climate)	-	7.02	5.93(V) - 5.70	6.09(V) - 5.89	5.56(V) - 5.53	5.72(V) - 4.93	5.86(V) - 5.71	5.56(V) - 5.53	
Working range in Cooling ⁽³⁾	°C	-15°C / +46°C (DB)						-15°C / +46°C (DB)	
Performance, heating									
Nominal heating capacity	kW	8.00	11.20	14.00	16.00	11.20	14.00	16.00	
Heating capacity at -7°C*	kW	6.30	10.10	10.50	12.00	10.10	10.50	12.00	
Rated power input heating	kW	2.27	3.23	4.36	3.64	3.17	4.36	3.64	
COP	-	3.52	3.47	3.21	4.40	3.53	3.21	4.40	
Seasonal energy class Heating	-	A+	A+	A+	-	A+	A+	-	
SCOP (average climate)	-	4.09	4.12	4.09	4.05	4.18	4.09	4.05	
Working range in Heating	°C	-20°C / +18°C (WB)						-20°C / +18°C (WB)	
Indoor units									
		RPC-3.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR	
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	29 / 33 / 37 / 40	32 / 37 / 42 / 44	35 / 41 / 45 / 48	36 / 42 / 47 / 49	32 / 37 / 42 / 44	35 / 41 / 45 / 48	36 / 42 / 47 / 49	
Sound power	dB(A)	56	60	64	65	60	64	65	
Airflow in Cooling mode (EL / L / M / H)	m³/h	750 / 930 / 1110 / 1260	1020 / 1320 / 1590 / 1800	1200 / 1530 / 1860 / 2100	1260 / 1620 / 1950 / 2220	1020 / 1320 / 1590 / 1800	1200 / 1530 / 1860 / 2100	1260 / 1620 / 1950 / 2220	
Condensate pump included	-	no (optional accessory)						no (optional accessory)	
Max. elevation	mm	600						600	
Dimensions (H x L x D)	mm	235 x 1270 x 690		235 x 1580 x 690				235 x 1580 x 690	
Weight	kg	35		41				41	
Condensate outlet diameter (ext)	mm	32						32	
Power supply	-	1~ 230V 50Hz						1~ 230V 50Hz	
Recommended fuse size	A	5						5	
Max. current	A	5						5	
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 0.75						3 x 0.75	
Remote control	-	PC-ARFP1E						PC-ARFP1E	
Outdoor units									
		RAS-3HVRC2	RAS-4H(V)RC2E	RAS-5H(V)RC2E	RAS-6H(V)RC2E	RAS-4H(V)NC2E	RAS-5H(V)NC2E	RAS-6H(V)NC2E	
Sound pressure in Cooling mode (Night mode) ⁽²⁾	dB(A)	54 (48)	54 (51)	54 (51)	56 (51)	54 (51)	54 (51)	56 (51)	
Sound power	dB(A)	69	70	70	72	70	70	72	
Airflow (Cooling / Heating)	m³/h	2700		4800				4800	
Dimensions (H x L x D)	mm	629 x 799 x 300		1140 x 950 x 370				1140 x 950 x 370	
Net weight	kg	48		86 (84)				86 (84)	
Compressor	-	Inverter DC rotary unit						Inverter DC rotary unit	
Refrigeration characteristics									
Diameter of pipes (Liq / Gas)	mm (inches)	9.52 (3/8) - 15.88 (5/8)						9.52 (3/8) - 15.88 (5/8)	
Initial refrigerant charge	kg	1.7		3.0				3.2	
Pre-charged for	m	20						20	
Min. length	m	5						5	
Max. length / additional charge	m/g/m	50 / 45		75 / 45				75 / 60	
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 20						30 / 20	
Refrigerant	-	R32						R410A	
Electrical features, outdoor unit									
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz	2~ 230V 50Hz or 3N~ 400V 50Hz	3~ 230V 50Hz or 3N~ 400V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz			
Max. current	A	15.8	22.5 or 15		22.5 or 15				
Recommended fuse size	A	20	25 or 20		25 or 20				
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 4.00	3 x 6.00 or 5 x 4.00		3 x 6.00 or 5 x 4.00				
Indoor/outdoor connection (shielded)	mm²	2 x 0.75						2 x 0.75	

⁽¹⁾ Data is for guidance purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

⁽²⁾ Sound levels (pressure) are measured in an anechoic chamber at 1.0 m below the unit.

⁽³⁾ To ensure a cooling mode at -15°C, this option must be activated. (V) Single-phase version.

* Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

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



Simple wired controller
PC-ARH1E



Infrared controller
PC-AWR



Hard wired control
PC-ARFP1E



Remote sensor
THM-R2AE



Infrared receiver
PC-ALHC1 (integrated)
PC-ALHZ1 (external)



Condensation drainage kit
DDB-26 (4Hp models)
DDB-12L (3Hp models)



Motion sensor
SOR-NEP



Connectors
PCC-1A



The standard multi-split range consists of 5 outdoor units capable of air conditioning up to five different areas on the same unit. The power of its units and its wide range of combinations makes it easy to adapt any installation setup. The new Summit multi-split range features 2 or 3 outputs to connect up to 3 Summit indoor wall units.



Multi-split

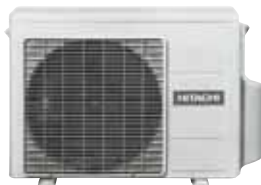
Multi-split standard outdoor units



Indoor units












Multi-split Summit outdoor units



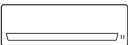





Indoor units






Selection guide


		Rated power Cooling (kW)	3.3	4.0	5.3	6.8 / 7.0	8.5	10.0	
Multi-split standard RAM-NPE outdoor units		Heating capacity at -7°C Heating (kW)	Up to 3.5	Up to 4.0	Up to 5.5	Up to 6.5	Up to 7.8	Up to 8.0	 HIBERNATE Puts electronic components into standby mode
	 (3.3 and 4.0 kW)	 (5.3 kW)	2 indoor units		SEER A+++ 8.50 SCOP A++ 4.60	SEER A+++ 8.50 SCOP A++ 4.60	SEER A+++ 8.50 SCOP A++ 4.60		 POWER HIGH at -7°C
	 (5.3 and 6.8 kW)		3 indoor units			SEER A+++ 8.50 SCOP A++ 4.60	SEER A++ 8.10 SCOP A++ 4.60		 VECTOR CONTROL Very low-frequency compressor control Reduced noise level Energy-saving
	 (7.0 kW)		4 indoor units				SEER A++ 8.10 SCOP A++ 4.60		
	 (8.5 and 10.0 kW)		5 indoor units					SEER A++ 7.90 SCOP A++ 4.30	SEER A++ 6.52 SCOP A++ 4.22

Compatible indoor units

Multi-Split indoor units					
					
Shirokuma wall unit RAK-18QXE RAK-25-50-RXE	Performance wall unit RAK-15QPE RAK-18-50RPE	Light commercial wall unit RAK-60RPE	600 x 600 R32 cassette RAI-25~ 60RPE	Shirokuma console RAF-25-50RXE	R32 ducted RAD-18QPE RAD-25-60RPE

		Rated power Cooling (kW)	4.0	5.3
Multi-split Summit RAM-NEF outdoor units		Heating capacity at -7°C Heating (kW)	Up to 3.5	Up to 4.3
	 (4 and 5.3 kW)	2 indoor units	SEER A++ 8.25 SCOP A+ 4.30	SEER A++ 8.10 SCOP A+ 4.10
	 (5.3kW)	3 indoor units		SEER A++ 8.10 SCOP A+ 4.10

Compatible indoor units

Multi-Split indoor units	
	Summit wall unit RAK-15QEF RAK-18-50REF

Benefits Multi-split

1 Discreet design that blends in



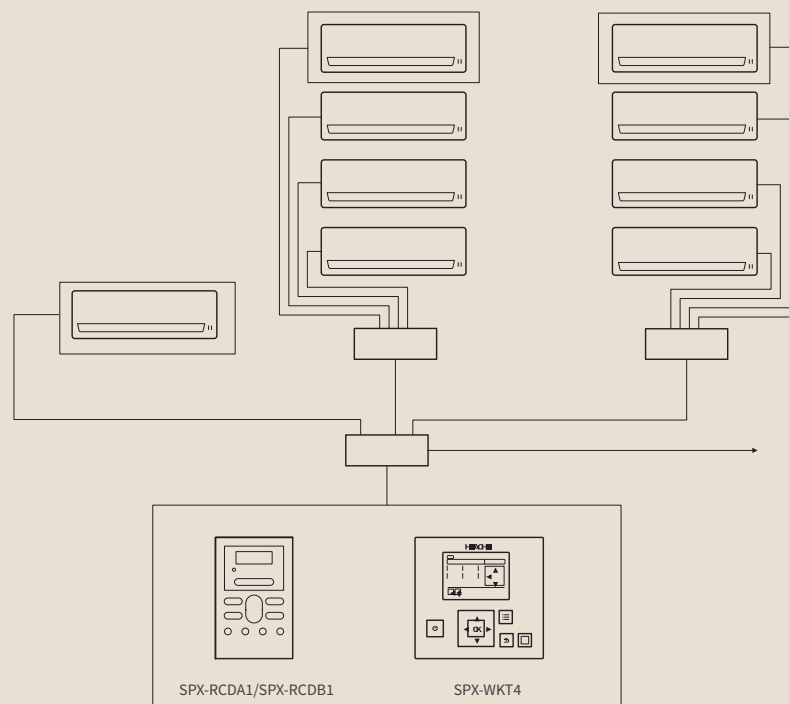
With their harmonized designs, the Shirokuma console and wall mount will fit perfectly into any indoor space.

2 Easy to install and maintain



- With duct-type units, you can adapt the static pressure to the needs of each installation.
- Outdoor units with 2 outlets come pre-charged with R32 gas. There is no need to add more gas. This saves on installation time and costs.
- Alarm code is displayed on the control for faster diagnostics.

3 Solutions to control the system in a centralized way



Central control for up to 13 indoor units with the wired remote control SPX-WTK4 and boxes SPX-DST1 + SPX-WDST8M



Multi-split

Standard R32 outdoor units

Multi-split



	Part no.	RAM-33NP2E	RAM-40NP2E	RAM-53NP2E	RAM-53NP3E	RAM-68NP3E	RAM-70NP4E	RAM-90NP5E	RAM-110NP5E	
Number of connectible units (min-max)	-	2		2 / 3		2 / 4		2 / 5		
Nominal cooling capacity (min-max)	kW	3.3 (1.50 - 3.80)	4.00 (1.50 - 4.20)	5.30 (1.50 - 6.60)		6.80 (2.40 - 8.00)	7.00 (2.40 - 8.80)	8.50 (1.52 - 9.50)	10.00 (1.50 - 12.50)	
Nominal heating capacity (min-max)	kW	4.00 (1.50 - 4.60)	5.20 (1.50 - 5.50)	6.80 (1.50 - 7.20)		8.50 (2.40 - 9.50)	8.50 (2.60 - 9.50)	10.00 (1.50 - 11.50)	12.00 (1.50 - 12.70)	
Heating capacity at -7°C ⁽¹⁾	kW	3.50	4.00	4.50	5.50	6.50		7.80	8.00	
Rated power input Cooling (min-max)	kW	0.73 (0.20 - 1.05)	0.95 (0.20 - 1.15)	1.26 (0.20 - 1.66)	1.29 (0.20 - 1.68)	1.83 (0.46 - 2.96)	1.89 (0.46 - 3.20)	2.50 (0.50 - 3.85)	3.096 (0.50 - 4.50)	
Rated power input Heating (min-max)	kW	0.90 (0.20 - 1.50)	1.18 (0.20 - 1.50)	1.61 (0.20 - 2.01)	1.61 (0.20 - 2.01)	2.12 (0.43 - 2.60)	2.02 (0.48 - 3.12)	2.56 (0.50 - 3.85)	3.158 (0.50 - 5.00)	
EER/COP	-	4.50 / 4.40	4.20 / 4.40	4.20 / 4.20	4.10 / 4.20	3.70 / 4.00	3.70 / 4.20	3.40 / 3.90	3.23 / 3.8	
SEER/SCOP (average climate)	-	8.50 / 4.60				8.10 / 4.60		7.90 / 4.30		6.52 / 4.22
Seasonal energy class (Cooling/Heating)	-	A+++ / A++				A++ / A++		A++ / A+		
Sound pressure in Cooling mode	dB(A)	48	49	50		53		54		
Sound power	dB(A)	60		61		63		66	68	
Airflow (Cooling/Heating)	m ³ /h	1620 / 1620		2160 / 2160		2700 / 2700		3900 / 3900	4000 / 4000	
Dimensions (HxWxD)	mm	570 x 750 x 280		750 x 850 x 298		800 x 850 x 298		800 x 950 x 370		
Net weight	kg	38	41	53	54	58	71	76		
Power supply	-	220-230V								
Recommended fuse size	A	16		20		25				
Cable width (EN 60 335-1) ⁽²⁾	mm ²	2 x 2.5 + E		3 x 1.5 + E						
Indoor/outdoor connection	mm ²	1/4 x 2 / 3/8 x 2		1/4 x 3 / 3/8 x 3		(1/4 x 4 / 3/8 x 3 + 1/2 x 1)		1/4 x 5 / (3/8 x 3) + (1/2 x 2)		
Diameter of pipes (Liq/Gas)	inches	1.02		1.80		2.05		2.40		
Initial refrigerant charge	kg	35		30		35		30		
Pre-charged for	m	3		60 / 20		75 / 15		75 / 13		
Min. length	m	10		20						
Max. length / additional charge	m/g/m	-10°C / +46°C		-15°C / +24°C						
Max. level difference	m	R32								
Operating range Cooling	°C	TWIN ROTARY								
Operating range Heating	°C	ROTARY								
Refrigerant	-	-								
Compressor	-	-								

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Controls and compatible accessories (see page 161)



Wired programmable remote control
SPX-WKT4



Infrared remote control
SPX-RCKA1 for ducted
SPX-RCKA2 for RAK-60RPE
SPX-RCKA3 for cassette



Wired standard remote control
SPX-RCDA1



Wired standard remote control
SPX-RCDB1

Multi-split

Indoor units

Shirokuma wall unit



Shirokuma range of wall units

Suits any type of installation with models designed for smaller areas. The size 18 model is switchable to reduce power (1.8 kW > 1.2 kW in cooling mode and 2.5 kW > 1.8 kW in heating mode).

Motion sensor

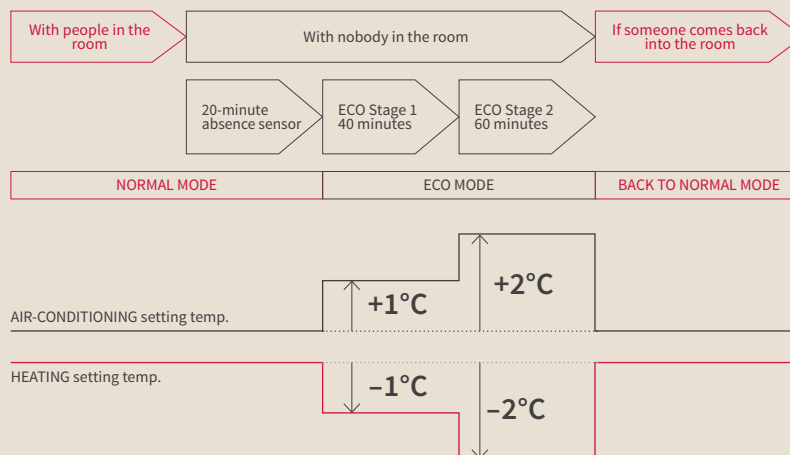
It adapts how the indoor unit works depending on whether there are people in the room or not. See Eco Sensor image opposite.

Ultra performance filtration

STAINLESS prefilters and Active Carbon filters as standard. The Active Carbon filter with silver ions (known for their antibacterial properties) acts by adsorption. This retains certain gas molecules or suspended particles on the surface of the filter. The air that comes out of the filter is then free of odors and pollutants.

Silent units

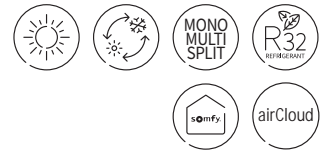
20 dB(A) on the size 25 model.



	Unit	RAK-18QXE	RAK-25RXE	RAK-35RXE	RAK-50RXE
Nominal cooling capacity (min - max)	kW	1.80 (1.00 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Nominal heating capacity (min - max)	kW	2.50 (1.10 - 3.20)	3.20 (0.90 - 4.20)	4.00 (0.90 - 4.80)	5.80 (2.20 - 7.00)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A)	20 / 25 / 30 / 36	20 / 27 / 35 / 43	22 / 29 / 37 / 45	25 / 31 / 39 / 47
Sound power	dB(A)	49	58	60	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	300 / 330 / 430 / 500	300 / 330 / 510 / 600	320 / 340 / 520 / 660	350 / 400 / 580 / 720
Dehumidification	l/h	1.2	1.4	1.6	2.0
Dimensions (H x W x D)	mm	295 x 900 x 210			
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8		1/4 - 1/2	
Net weight	kg	11.0			
Power supply	V	220 - 230V			
Cable width (EN 60 335 - 1) ⁽²⁾	mm ²	3 x 1.50 + E		3 x 2.50 + E	
Remote control	-	Weekly infrared RAR-6NE1 (included)			

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.



Multi-split

Indoor units

Performance wall units and Light commercial wall units



The Performance range of wall units

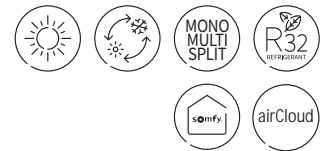
Suits any type of installation with models designed for smaller areas. The size 15 model is switchable to reduce power (1.5 kW > 1 kW* in cooling mode and 2 kW > 1.5 kW in heating mode). With its Active Carbon filter, the air is free of odors and pollutants.

Unit	RAK-15QPE	RAK-18RPE	RAK-25RPE	RAK-35RPE	RAK-42RPE	RAK-50RPE	RAK-60RPE	
Nominal cooling capacity (min - max)	kW 1.50 (0.90 - 2.00)	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)	6.00 (1.20 - 6.50)	
Nominal heating capacity (min - max)	kW 2.00 (1.00 - 2.50)	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.70 - 6.00)	6.00 (2.20 - 7.30)	7.00 (1.20 - 8.00)	
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A) 20 / 24 / 30 / 34	21 / 24 / 33 / 37	22 / 24 / 33 / 40	25 / 26 / 36 / 43	25 / 28 / 39 / 46	25 / 28 / 39 / 46	30 / 33 / 42 / 48	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h 312 / 350 / 400 / 420	312 / 350 / 400 / 440	333 / 370 / 430 / 510	353 / 420 / 485 / 680	353 / 410 / 540 / 720	353 / 410 / 540 / 750	310 / 410 / 570 / 720	
Dehumidification	l/h 1.20	1.20	1.40	1.60	1.80	2.00	2.8	
Dimensions (H x W x D)	mm	280 x 780 x 230						300 x 900 x 230
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8				1/4 - 1/2		
Net weight	kg	8.5						11.5
Power supply	V	220 - 230V						
Cable width (EN 60 335 - 1) ⁽²⁾	mm ²	3 x 1.50 + E				3 x 2.50 + E		3 x 1.50 + E
Remote control	-	Weekly infrared RAR-6NE1 (included)						Not supplied (SPX-RCKA2 / SPX-RCDB1 / SPX-WKT4)

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

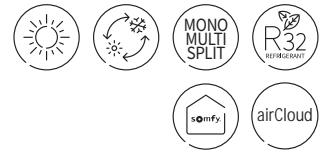
Cassette unit 600 × 600



Indoor units	Unit	RAI-25RPE	RAI-35RPE	RAI-50RPE	RAI-60RPE
Nominal cooling capacity (min - max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
Nominal heating capacity (min - max)	kW	3.50 (0.90 - 5.00)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	-	27 / 31 / 35 / 38	27 / 33 / 37 / 40	29 / 35 / 39 / 43	
Sound pressure in Heating mode (EL / L / M / H) ⁽¹⁾	-	28 / 32 / 36 / 39	28 / 34 / 38 / 41	30 / 36 / 40 / 44	
Sound power	dB(A)	54	56	56	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	360 / 505 / 590 / 660		390 / 540 / 630 / 720	
Dehumidification	l/h	1.4	1.8	2.8	3.8
Dimensions (H x W x D)	mm	285 x 570 x 570			
Fascia panel dimensions (H x W x D)	mm	30 x 620 x 620			
Condensate outlet diameter (ext.)	mm	32			
Condensate pump	-	yes			
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8		1/4 - 1/2	1/4 - 1/2
Net weight	kg	17			
Net weight of fascia panel	kg	2.8			
Part number of front panel	-	P-AP56NAMS			
Power supply	V	220 - 230V			
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.50 + E			
Remote control	-	Not supplied (SPX-RCKA3 / SPX-RCDB1 / SPX-WKT4)			

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.



Extended airflow

With a larger **dynamic airflow**, the air can reach every corner of the room. The room is conditioned (with heating or cooling air) at the touch of a button on the remote control. (Fig. 1)

Flexibility with the multi-split range

The indoor unit of the Shirokuma console is compatible with all multi-split outdoor groups. You can also have multiple

indoor units installed in different rooms with a single outdoor unit.

Exceptionally high-performance

The console has an energy rating of A+++.
Guaranteed energy savings!

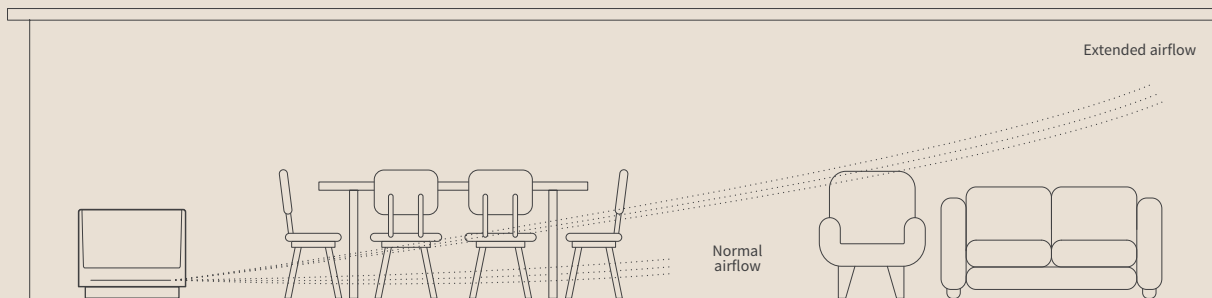
Management options

The console comes with an infrared remote control as standard. It is also compatible with the SPX-WKT4 wired remote control with hourly programming.

Compatible with airCloud

The entire Hitachi residential range is compatible with the airCloud for Home system, which allows you to control equipment **from any mobile device** acting as a remote control.

Fig. 1



Indoor units	Unit	RAF-25RXE	RAF-35RXE	RAF-50RXE
Nominal cooling capacity (min - max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (0.90 - 5.20)
Nominal heating capacity (min - max)	kW	3.40 (0.90 - 4.40)	4.50 (0.90 - 5.00)	6.00 (0.90 - 8.10)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A)	20 / 26 / 31 / 38	20 / 26 / 31 / 39	22 / 29 / 36 / 43
Sound power	dB(A)	52		56
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	270 / 390 / 510 / 630	270 / 390 / 510 / 660	300 / 450 / 540 / 720
Dehumidification	l/h	1.4	1.9	2.8
Dimensions (H x W x D)	mm	590 x 750 x 215		
Condensate outlet diameter (ext.)	mm	16		
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8		1/4 - 1/2
Net weight	kg	15		
Power supply	-	220 - 230 V		
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.50 + E		3 x 2.50 + E
Remote control	-	Weekly infrared RAR-6NE1 (included)		

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

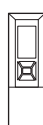
⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Controls and compatible accessories (see page 161)

Leakage sensor
SPX-RAFGLS



Wired programmable remote control
SPX-WKT4



Infrared remote control
SPX-RCKA1 for ducted
SPX-RCKA2 for RAK-60RPE
SPX-RCKA3 for cassette

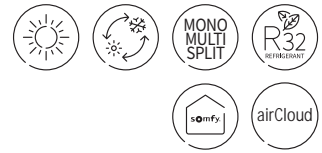


Wired standard remote control
SPX-RCDB1

Multi-split

Indoor units

R32 ducted



Indoor unit ducts

These now have a static pressure setting available: 50 to 150 Pa.

Plenums (optional)

Plenum supply air 2 x D200.
- return air plenum 2 x D200
(with or without filter access).

Remote sensor (optional)

For maximum comfort in the home
- Part number: SPX-RTH1

Indoor units	Unit	RAD-18QPE	RAD-25RPE	RAD-35RPE	RAD-50RPE	RAD-60RPE
Nominal cooling capacity (min - max)	kW	1.80 (0.90 - 2.50)	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
Nominal heating capacity (min - max)	kW	2.50 (0.90 - 3.20)	3.50 (0.90 - 5.50)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A)	30 / 33 / 37 / 41			29 / 32 / 35 / 39	
Sound pressure in Heating mode (EL / L / M / H) ⁽¹⁾	dB(A)	30 / 34 / 38 / 42			29 / 32 / 35 / 40	
Sound power	dB(A)	57			53	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	330 / 390 / 450 / 510			350 / 540 / 800 / 1140	
Static pressure (L / M / H)	Pa	- / - / 70			50 / 100 / 150	
Dehumidification	l/h	1.4		1.6	2.8	2.8
Dimensions (H x W x D)	mm	235 x 750 x 400			270 x 900 x 720	
Condensate outlet diameter (ext)	mm	16			32	
Condensate pump	-	YES				
Diameter of pipes (Liq / Gas)	inches		1/4 - 3/8		1/4 - 1/2	
Net weight	kg	16			35	
Power supply	V	220 - 230V				
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.5 + E			3 x 1.5 + E	
Remote control		Not supplied (SPX-RCKA1 / SPX-RCDB1 / SPX-WKT4)				

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Part number	Description	Length	Height	Depth	Compatibility	Number of ductwork connections
PIM1SOURADNH	STANDALONE SUPPLY AIR PLENUM 2XD200	720	200	300 + 50	RAD-18QPE* / RAD 25-35RPE	2 x 200
PIM1REPRADNH	STANDALONE RETURN AIR PLENUM 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1REPRADNHF	STANDALONE RETURN AIR PLENUM filter access door 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1SOURADDH	STANDALONE SUPPLY AIR PLENUM 3XD200	810	225	250 + 50	RAD-50-60RPE / RAD-70PPD	3 x 200
PIM1REPRADDH	STANDALONE RETURN AIR PLENUM 2XD200	820	225	200 + 50	RAD-50-60RPE / RAD-70PPD	2 x 200

* Only available as a multi option

Airzone: enjoy a whole range of benefits with the zoning solution

With a single ducted unit you can control up to 6 rooms separately thanks to motorized plenums that fit directly onto Hitachi units.

		Motorized fan blower plenums							Intake plenum
	Part numbers for ducted units	Power	Plenum model	2 outputs	3 outputs	4 outputs	5 outputs	6 outputs	
Residential use	RAD-RPE	5.0 kW	Standard	AZEZ6HITST032 930 x 300 x 454	AZEZ6HITST033 930 x 300 x 454	AZEZ6HITST03M4 1140 x 300 x 454	AZEZ6HITST03M5 1425 x 300 x 454	AZEZ6HITST03M6 1638 x 300 x 454	AZCEZHPR03M 818 x 223.8 (2xD250)
		6.0 kW 7.0 kW	Medium	AZEZ6HITDB032 930 x 250 x 454	AZEZ6HITDB033 930 x 250 x 454	AZEZ6HITBS03M4 1140 x 250 x 454	AZEZ6HITBS03M5 1425 x 250 x 454	AZEZ6HITBS03M6 1638 x 250 x 454	
	RAD-RPE	2.5 kW	Standard	AZEZ6HITST04S2 930 x 300 x 454	AZEZ6HITST04S3 930 x 300 x 454	AZEZ6HITST04S4 1140 x 300 x 454	-	-	AZCEZHPR04S 647.2 x 208.1 (1x D250)
		3.5 kW	Medium	AZEZ6HITBS04S2 930 x 250 x 454	AZEZ6HITBS04S3 930 x 250 x 454	AZEZ6HITBS04S4 1140 x 250 x 454	-	-	

Two versions of plenums are available: standard version (300 mm) and medium version with fresh air function (250 mm). The dimensions of the plenums are shown under the Part number

Connected and intuitive interfaces



Airzone Blueface thermostat

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



Airzone Think thermostat

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



Airzone Lite thermostat

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



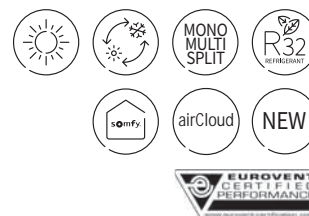
Webserver Airzone Cloud

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

Interface	Airzone Blueface	Airzone Think	Airzone Lite	Webserver Airzone Cloud
Part number	AZCE6BLUEFACEB	AZEZ6THINKCB	AZCE6LITECB	AZX6WSCLOUDDINC
Wireless connection	-	AZEZ6THINKRB	AZCE6LITERB	AZX6WSCLOUDDINR
10m cable	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10	AZX6CABLEBUS10

Multi-split

Summit outdoor units



Outdoor units	Unit	RAM-40NE2F	RAM-53NE2F	RAM-53NE3F
Number of connectible units (min-max)	-	2 / 2		2 / 3
Nominal cooling capacity (min-max)	kW	4.0 (1.5-4.4)	5.3 (1.5-6.0)	
Nominal heating capacity (min-max)	kW	5.1 (1.5-5.5)	6.3 (1.5-6.6)	
Heating capacity at -7°C ⁽¹⁾	kW	3.5	4.3	
Rated power input Cooling (min-max)	kW	1.026 (0.25-1.27)	1.293 (0.35-1.71)	1.293 (0.35-2.16)
Rated power input Heating (min-max)	kW	1.243 (0.25-1.70)	1.615 (0.35-2.25)	
EER/COP	-	3.90 / 4.10	4.10 / 3.90	
SEER/SCOP (average climate)	-	8.25 / 4.30	8.10 / 4.10	
Seasonal energy class (Cooling/Heating)	-	A++/A+		
Sound pressure in Cooling mode	dB(A)	49	50	
Sound power	dB(A)	60	61	
Airflow (Cooling/Heating)	m ³ /h	1620 / 1620	2160 / 2160	
Dimensions (HxWxD)	mm	570 x 750 x 280	750 x 850 x 298	
Net weight	kg	41	51	52
Power supply	-	220 - 230V		
Recommended fuse size	A	16		
Cable width (EN 60 335-1) ⁽²⁾	mm ²	2 x 2.5 +E		
Indoor/outdoor connection	mm ²	3 x 1.5 +E		
Diameter of pipes (Liq/Gas)	inches	(1/4" x 2 / 3/8" x 2)		(1/4" x 3 / 3/8" x 3)
Initial refrigerant charge	kg	0.93	1.59	
Pre-charged for	m	35		
Min. length	m	3		
Max. length / additional charge	m/g/m	35/-	45/20	
Max. level difference	m	10	20	
Working range in Cooling	°C	-10°C / 46°C		
Working range in Heating	°C	-15°C / 24°C		
Refrigerant	-	R32		
Compressor	-	Rotary		

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Multi-split

Indoor units

Summit wall unit



Compatible with the airCloud remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.

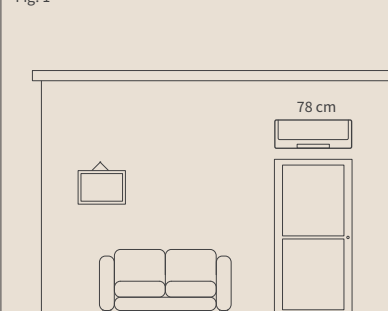
Maximum use of space

Thanks to its small size, you can install it discreetly. With a width of 780 mm, it will fit anywhere, including above a doorway. (Fig. 1)

Silent operation

With a low noise level of just 19dB*, you can enjoy a comfortable environment without noticing that the indoor unit is even running.

Fig. 1



Indoor units	Unit	RAK-15QEF*	RAK-18REF	RAK-25REF	RAK-35REF	RAK-50REF
Nominal cooling capacity (min - max)	kW	1.50 (0.9 - 2.00)	1.80 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Nominal heating capacity (min - max)	kW	2.00 (1.00 - 2.50)	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	6.00 (2.2 - 7.30)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A)	21 / 24 / 33 / 37		22 / 24 / 33 / 40	25 / 26 / 36 / 43	28 / 30 / 40 / 46
Sound pressure in Heating mode (EL / L / M / H) ⁽¹⁾	dB(A)	19 / 22 / 33 / 38		20 / 23 / 34 / 41	26 / 27 / 36 / 44	25 / 30 / 39 / 47
Sound power	dB(A)	52		54	57	60
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	312 / 350 / 400 / 440		333 / 370 / 430 / 510	333 / 400 / 485 / 600	333 / 450 / 600 / 700
Dehumidification	l/h	1.2		1.4	1.6	2.0
Dimensions (H x W x D)	mm	280 x 780 x 215				
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8				1/4 - 1/2
Net weight	kg	7.5				8
Power supply	V	220 - 230V				
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.5 + E				3 x 2.5 + E
Remote control	-	Infrared RAR-7PE1 (included)				

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue). * Only available as a multi option

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Controls and compatible accessories (see page 161)



Infrared remote control
Included
RAR-7PE1



Wired standard remote control
SPX-RCDB1



Wired programmable remote control
SPX-WKT4



H-Link box
PSC-6RAD

Other*:

- Control box for multi-indoor units
SPX-DST1 + SPX-WDST8M
- airCloud Home for interface SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3
- Single fault report kit SPX-WDC7 + HA-S100TSA

Indoor unit combinations

Standard multi-split

RAM - 33NP2E	COOLING MODE					HEATING MODE			COP
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)		
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (250 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77
	18	1.80	1.80 (1.00 - 2.50)	455 (250 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62
	25	2.50	2.50 (1.00 - 3.10)	650 (250 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54
	35	3.50	3.50 (1.00 - 3.80)	780 (250 - 1300)	4.49	4.00	4.60 (1.10 - 4.60)	1200 (250 - 1300)	3.33
2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 2.80)	730 (250 - 780)	4.11	2.00 + 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	730 (250 - 1050)	4.52	1.78 + 2.22	4.00 (1.50 - 4.60)	900 (250 - 1020)	4.44
	15 + 25	1.24 + 2.06	3.30 (1.50 - 3.80)	950 (250 - 1050)	3.47	1.45 + 2.55	4.00 (1.50 - 4.60)	1080 (250 - 1500)	3.70
	15 + 35	0.99 + 2.31	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.18 + 2.82	4.00 (1.50 - 4.60)	1230 (250 - 1500)	3.25
	18 + 18	1.65 + 1.65	3.30 (1.50 - 3.80)	1050 (250 - 1050)	3.14	2.00 + 2.00	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	18 + 25	1.38 + 1.92	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.67 + 2.33	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	18 + 35	1.12 + 2.18	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	1.37 + 2.63	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20
	25 + 25	1.65 + 1.65	3.30 (1.50 - 4.20)	1050 (250 - 1050)	3.14	2.00 + 2.00	4.00 (1.50 - 4.60)	1250 (250 - 1500)	3.20

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

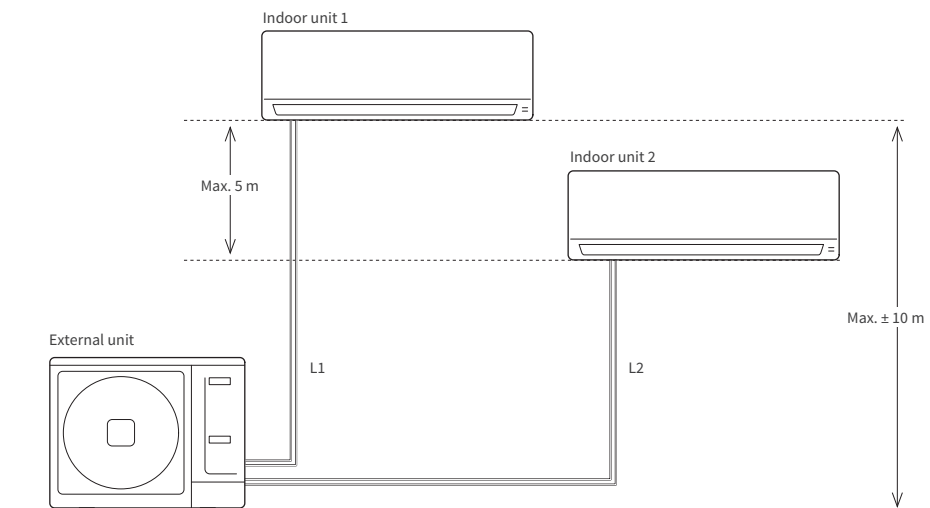
Pipe lengths

RAM-33NP2E

L1 + L2 < 35 m
L1 < 15 m ; L2 < 15 m

The max. level difference between 2 indoor units is 5m.

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



RAM - 40NP2E		COOLING MODE				HEATING MODE			
		Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (200 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77 A
	18	1.80	1.80 (1.00 - 2.50)	455 (200 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62 A
	25	2.50	2.50 (1.00 - 3.10)	650 (200 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54 B
	35	3.50	3.50 (1.00 - 4.00)	780 (200 - 1150)	4.49	4.80	4.80 (1.10 - 5.00)	1200 (250 - 1300)	4.00 A
2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 2.80)	700 (200 - 780)	4.29	2.00 + 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49 A
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	730 (200 - 930)	4.52	2.00 + 2.50	4.50 (1.50 - 5.00)	940 (250 - 1020)	4.79 A
	15 + 25	1.50 + 2.50	4.00 (1.50 - 4.00)	950 (200 - 1150)	4.21	1.89 + 3.31	5.20 (1.50 - 5.50)	1080 (250 - 1500)	4.81 A
	15 + 35	1.20 + 2.80	4.00 (1.50 - 4.20)	1100 (200 - 1150)	3.64	1.53 + 3.67	5.20 (1.50 - 5.50)	1230 (250 - 1500)	4.23 A
	18 + 18	1.80 + 1.80	3.60 (1.50 - 4.00)	1050 (200 - 1050)	3.43	2.50 + 2.50	5.00 (1.50 - 5.00)	1250 (250 - 1500)	4.00 A
	18 + 25	1.67 + 2.33	4.00 (1.50 - 4.20)	1090 (200 - 1150)	3.67	2.17 + 3.03	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A
	18 + 35	1.36 + 2.64	4.00 (1.50 - 4.20)	1130 (200 - 1150)	3.54	1.78 + 3.42	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A
	25 + 25	2.00 + 2.00	4.00 (1.50 - 4.20)	1150 (200 - 1150)	3.48	2.60 + 2.60	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16 A

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

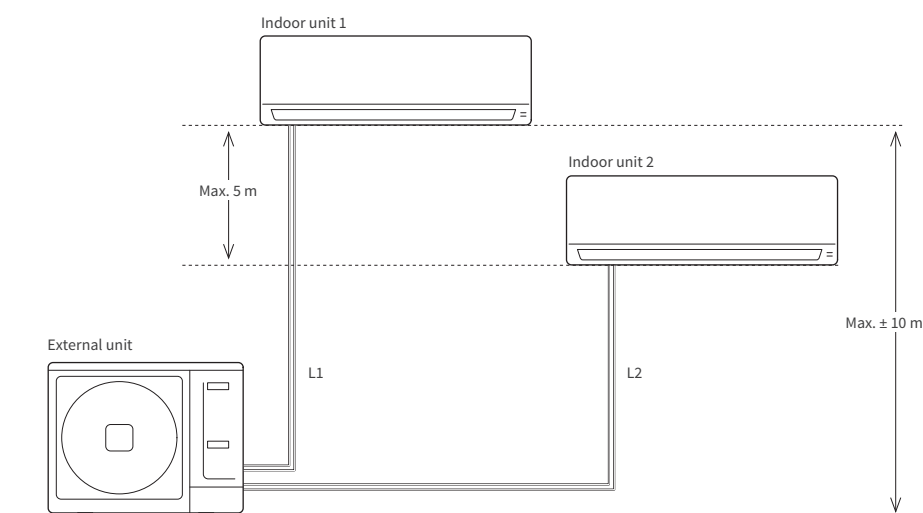
Pipe lengths

RAM-40NP2E

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

The max. level difference between 2 indoor units is 5m.

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



Indoor unit combinations

Multi-split

Standard multi-split

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

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

⁽¹⁾ For each output corresponding to units 42, 50 and 60, a 3/8-to-1/2 pipe adapter is required.

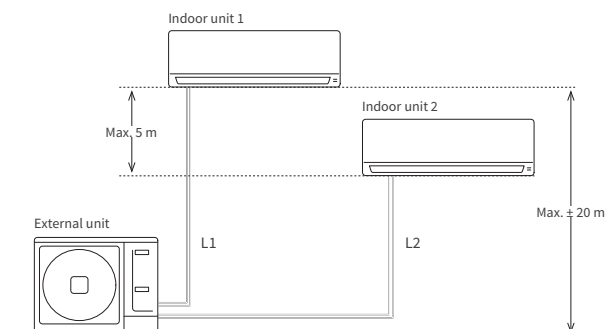
Pipe lengths

RAM-53NP2E

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

The max. level difference between 2 indoor units is 5m.

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



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

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.
⁽¹⁾ For each output corresponding to units 42, 50 and 60, a 3/8-to-1/2 pipe adapter is required.

Pipe lengths

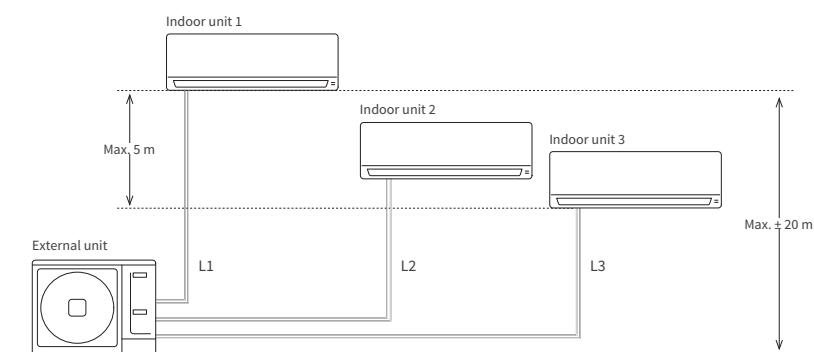
RAM-53NP3E

L1 + L2 + L3 < 60 m
 L1 < 25 m ; L2 < 25 m ; L3 < 25 m

The max. level difference between 2 indoor units is 5 m.

Pre-charged 35 m.
 Beyond 35 m, allow an additional 20g/m.

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



Indoor unit combinations

Multi-split

Standard multi-split

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

⁽¹⁾ For each output corresponding to units 42, 50, and 60, a 3/8-to-1/2 pipe adapter is required.

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

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.
⁽¹⁾ For each output corresponding to units 42, 50 and 60, a 3/8-to-1/2 pipe adapter is required.

Pipe lengths

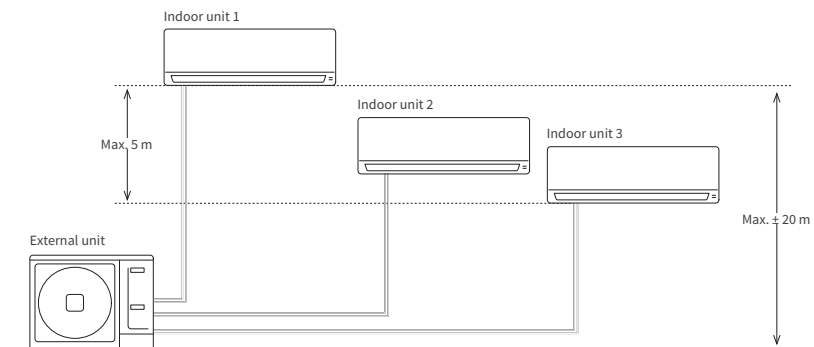
RAM-68NP3E

L1 + L2 + L3 < 60 m
 L1 < 25 m ; L2 < 25 m ; L3 < 25 m

The max. level difference between 2 indoor units is 5m.

Pre-charged for 30 m.
 Beyond 30 m, allow an additional 20g/m.

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



Indoor unit combinations

Multi-split

Standard multi-split

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

⁽¹⁾ For each output corresponding to units 42, 50, and 60, a 3/8-to-1/2 pipe adapter is required.

RAM - 70NP4E	COOLING MODE					HEATING MODE			
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP class	
1 unit*	15	1.50	1.50 (1.00 - 1.60)	400 (200 - 480)	3.75	2.00	2.00 (1.10 - 2.20)	560 (320 - 850)	3.57
	18	1.80	1.80 (1.50 - 2.00)	450 (280 - 500)	4.00	2.50	2.50 (1.80 - 3.50)	720 (320 - 1130)	3.47
	25	2.50	2.50 (1.50 - 2.80)	650 (280 - 720)	3.85	3.40	3.40 (1.80 - 4.70)	980 (320 - 1480)	3.47
	35	3.50	3.50 (1.50 - 3.90)	1030 (280 - 1130)	3.40	4.30	4.30 (1.80 - 5.80)	1150 (320 - 1950)	3.74
	42	4.20	4.20 (1.50 - 5.60)	1450 (280 - 1800)	2.90	6.50	6.50 (1.80 - 7.20)	2030 (320 - 2530)	3.20
	50	5.00	5.00 (1.50 - 5.60)	1450 (280 - 1800)	3.45	6.50	6.50 (1.80 - 7.20)	2030 (320 - 2530)	3.20
	60	6.00	6.00 (1.50 - 6.60)	1450 (280 - 2290)	4.14	7.30	7.30 (1.80 - 8.50)	2100 (320 - 2860)	3.48
2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 2.80)	870 (380 - 980)	3.45	2.00 + 2.00	4.00 (2.20 - 4.70)	1080 (200 - 1100)	3.70
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	950 (380 - 1000)	3.47	2.00 + 2.50	4.50 (2.20 - 5.20)	1200 (200 - 1300)	3.75
	15 + 25	1.50 + 2.50	4.00 (1.50 - 4.00)	1150 (380 - 1300)	3.48	2.00 + 3.40	5.40 (2.20 - 6.40)	1450 (200 - 1780)	3.72
	15 + 35	1.50 + 3.50	5.00 (1.50 - 5.20)	1450 (380 - 1450)	3.45	2.00 + 4.30	6.30 (2.20 - 7.20)	1660 (200 - 2010)	3.80
	15 + 42	1.50 + 4.20	5.70 (1.50 - 5.90)	1950 (380 - 2380)	2.92	2.00 + 6.50	8.50 (2.20 - 7.20)	2200 (390 - 3120)	3.86
	15 + 50	1.50 + 5.00	6.50 (1.50 - 5.90)	2000 (380 - 2380)	3.25	2.00 + 6.50	8.50 (2.20 - 7.20)	2200 (390 - 3120)	3.86
	15 + 60	1.40 + 5.60	7.00 (1.50 - 6.50)	2000 (380 - 2580)	3.50	1.83 + 6.67	8.50 (2.20 - 8.60)	2200 (390 - 3120)	3.86
	18 + 18	1.80 + 1.80	3.60 (2.00 - 4.00)	1020 (380 - 1020)	3.53	2.50 + 2.50	5.00 (2.20 - 6.40)	1380 (390 - 2750)	3.62
	18 + 25	1.80 + 2.50	4.30 (2.00 - 4.70)	1120 (380 - 1360)	3.84	2.50 + 3.40	5.90 (2.20 - 7.20)	1610 (390 - 3000)	3.66
	18 + 35	1.80 + 3.50	5.30 (2.00 - 5.80)	1600 (380 - 1950)	3.31	2.50 + 4.30	6.80 (2.20 - 7.20)	1850 (390 - 3120)	3.68
	18 + 42	1.80 + 4.20	6.00 (2.00 - 7.10)	1800 (380 - 2820)	3.33	2.36 + 6.14	8.50 (2.20 - 9.50)	2110 (390 - 3120)	4.03
	18 + 50	1.80 + 5.00	6.80 (2.00 - 7.10)	1830 (380 - 2820)	3.72	2.36 + 6.14	8.50 (2.20 - 9.50)	2120 (390 - 3120)	4.01
	18 + 60	1.70 + 5.40	7.00 (2.00 - 7.50)	2100 (380 - 2980)	3.33	2.17 + 6.33	8.50 (2.20 - 9.50)	2150 (390 - 3120)	3.95
	25 + 25	2.50 + 2.50	5.00 (2.00 - 5.50)	1410 (380 - 1720)	3.55	3.40 + 3.40	6.80 (2.20 - 9.50)	1850 (390 - 3120)	3.68
	25 + 35	2.50 + 3.50	6.00 (2.00 - 6.60)	1850 (380 - 2380)	3.24	3.60 + 4.30	7.70 (2.20 - 9.50)	2120 (390 - 3120)	3.63
	25 + 42	2.50 + 4.20	6.70 (2.00 - 7.50)	2100 (380 - 2980)	3.19	2.92 + 5.58	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62
	25 + 50	2.33 + 4.67	7.00 (2.00 - 7.50)	2100 (380 - 2980)	3.33	2.92 + 5.58	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62
	25 + 60	2.06 + 4.94	7.00 (2.00 - 7.50)	2100 (380 - 2980)	3.33	2.70 + 5.80	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62
	35 + 35	3.50 + 3.50	7.00 (2.00 - 7.40)	1890 (380 - 2940)	3.70	4.25 + 4.25	8.50 (2.20 - 9.50)	2020 (390 - 3120)	4.21
	35 + 42	3.18 + 3.82	7.00 (2.00 - 7.50)	2100 (380 - 2890)	3.33	3.38 + 5.12	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62
35 + 50	2.88 + 4.12	7.00 (2.00 - 7.50)	2100 (380 - 2890)	3.33	3.38 + 5.12	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
35 + 60	2.58 + 4.42	7.00 (2.00 - 7.80)	2100 (380 - 3100)	3.33	3.15 + 5.35	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
42 + 42	3.50 + 3.50	7.00 (2.00 - 8.00)	2100 (380 - 3170)	3.33	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
42 + 50	3.20 + 3.80	7.00 (2.00 - 8.00)	2100 (380 - 3170)	3.33	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
42 + 60	2.88 + 4.12	7.00 (2.00 - 8.00)	2100 (380 - 3170)	3.33	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
50 + 50	3.50 + 3.50	7.00 (2.00 - 8.00)	2100 (380 - 3170)	3.33	4.25 + 4.25	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	
50 + 60	3.18 + 3.82	7.00 (2.00 - 8.00)	2100 (380 - 3170)	3.33	4.00 + 4.50	8.50 (2.20 - 9.50)	2350 (390 - 3120)	3.62	

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

Pipe lengths

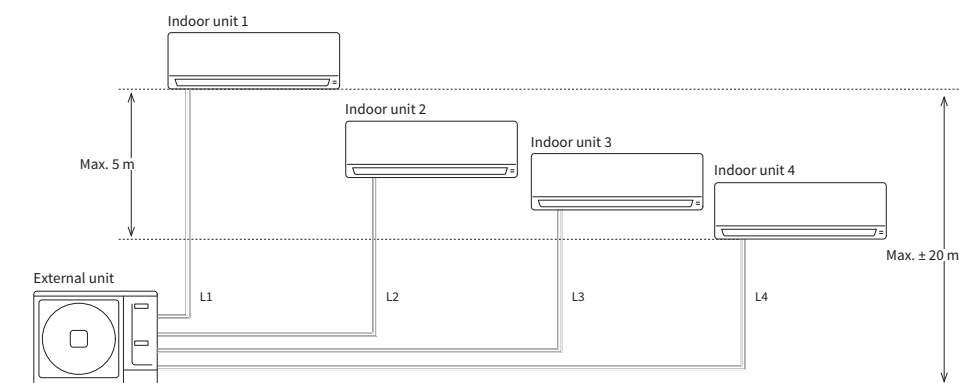
RAM-70NP4E

$L1 + L2 + L3 + L4 < 60$ m
 $L1 ; L2 ; L3 ; L4 < 25$ m

The max. level difference between 2 indoor units is 5m.

Pre-charged for 30 m.
 Beyond 30 m, allow an additional 20 g/m. The max. height between the highest indoor unit and the lowest indoor unit: 5 m.

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





Indoor unit combinations

Multi-split

Standard multi-split

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

3 units

RAM - 70NP4E		COOLING MODE				HEATING MODE			
		Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP
4 units	15 + 15 + 15 + 15	1.50 + 1.50 + 1.50 + 1.50	6.00 (2.20 - 6.50)	1600 (200 - 1660)	3.75	2.00 + 2.00 + 2.00 + 2.00	8.00 (2.60 - 9.00)	2150 (460 - 2420)	3.72
	15 + 15 + 15 + 18	1.50 + 1.50 + 1.50 + 1.80	6.30 (2.20 - 6.70)	1650 (420 - 2010)	3.82	2.00 + 2.00 + 2.00 + 2.50	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 15 + 15 + 25	1.50 + 1.50 + 1.50 + 2.50	7.00 (2.20 - 7.50)	1890 (420 - 2010)	3.70	1.81 + 1.81 + 1.81 + 3.07	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 15 + 35	1.31 + 1.31 + 1.31 + 3.06	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.65 + 1.65 + 1.65 + 3.55	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 15 + 42	1.21 + 1.21 + 1.21 + 3.38	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.36 + 1.36 + 1.36 + 4.42	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 15 + 50	1.11 + 1.11 + 1.11 + 3.68	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.36 + 1.36 + 1.36 + 4.42	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 15 + 60	1.00 + 1.00 + 1.00 + 4.00	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.28 + 1.28 + 1.28 + 4.67	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 18 + 18	1.50 + 1.50 + 1.80 + 1.80	6.60 (2.20 - 7.00)	1850 (420 - 2010)	3.57	1.89 + 1.89 + 2.36 + 2.36	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 18 + 25	1.44 + 1.44 + 1.73 + 2.40	7.00 (2.40 - 7.50)	2010 (420 - 2310)	3.48	1.72 + 1.72 + 2.15 + 2.92	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 18 + 35	1.27 + 1.27 + 1.52 + 2.95	7.00 (2.40 - 7.70)	2100 (450 - 2650)	3.33	1.57 + 1.57 + 1.97 + 3.38	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 18 + 42	1.17 + 1.17 + 1.40 + 3.27	7.00 (2.40 - 7.70)	2100 (450 - 2650)	3.33	1.31 + 1.31 + 1.63 + 4.25	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 18 + 50	1.07 + 1.07 + 1.29 + 3.57	7.00 (2.40 - 7.70)	2100 (450 - 2650)	3.33	1.31 + 1.31 + 1.63 + 4.25	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 18 + 60	0.97 + 0.97 + 1.17 + 3.89	7.00 (2.40 - 7.70)	2100 (450 - 3020)	3.33	1.23 + 1.23 + 1.54 + 4.50	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 15 + 25 + 25	1.31 + 1.31 + 2.19 + 2.19	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.57 + 1.57 + 2.68 + 2.68	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 25 + 35	1.17 + 1.17 + 1.94 + 2.72	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.45 + 1.45 + 2.47 + 3.12	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 25 + 42	1.08 + 1.08 + 1.80 + 3.03	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.22 + 1.22 + 2.08 + 3.97	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 15 + 25 + 50	1.00 + 1.00 + 1.67 + 3.33	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.22 + 1.22 + 2.08 + 3.97	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 15 + 25 + 60	0.91 + 0.91 + 1.52 + 3.65	7.00 (2.40 - 8.80)	2100 (450 - 3020)	3.33	1.16 + 1.16 + 1.97 + 4.22	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 15 + 35 + 35	1.05 + 1.05 + 2.45 + 2.45	7.00 (2.40 - 8.50)	2100 (450 - 2650)	3.33	1.35 + 1.35 + 2.90 + 2.90	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 15 + 35 + 42	0.98 + 0.98 + 2.29 + 2.75	7.00 (2.40 - 8.80)	2100 (450 - 3020)	3.33	1.15 + 1.15 + 2.47 + 3.73	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 15 + 35 + 50	0.91 + 0.91 + 2.13 + 3.04	7.00 (2.40 - 8.80)	2100 (450 - 3020)	3.33	1.15 + 1.15 + 2.47 + 3.73	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 18 + 18 + 18	1.50 + 1.80 + 1.80 + 1.80	6.90 (2.40 - 7.50)	2010 (420 - 2310)	3.43	1.79 + 2.24 + 2.24 + 2.24	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 18 + 18 + 25	1.38 + 1.66 + 1.66 + 2.30	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.63 + 2.04 + 2.04 + 2.78	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 18 + 18 + 35	1.22 + 1.47 + 1.47 + 2.85	7.00 (2.40 - 7.90)	2100 (450 - 2650)	3.33	1.50 + 1.88 + 1.88 + 3.23	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 18 + 18 + 42	1.13 + 1.35 + 1.35 + 3.16	7.00 (2.40 - 8.80)	2100 (450 - 2650)	3.33	1.26 + 1.57 + 1.57 + 4.09	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 18 + 18 + 50	1.04 + 1.25 + 1.25 + 3.47	7.00 (2.40 - 8.80)	2100 (450 - 2650)	3.33	1.26 + 1.57 + 1.57 + 4.09	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 18 + 18 + 60	0.95 + 1.14 + 1.14 + 3.78	7.00 (2.40 - 8.80)	2110 (450 - 3020)	3.32	1.19 + 1.49 + 1.49 + 4.34	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 18 + 25 + 25	1.27 + 1.52 + 2.11 + 2.11	7.00 (2.40 - 7.90)	2110 (450 - 2650)	3.32	1.50 + 1.88 + 2.56 + 2.56	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 18 + 25 + 35	1.13 + 1.35 + 1.88 + 2.63	7.00 (2.40 - 7.90)	2110 (450 - 2650)	3.32	1.39 + 1.74 + 2.37 + 3.00	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 18 + 25 + 42	1.05 + 1.26 + 1.75 + 2.94	7.00 (2.40 - 8.80)	2110 (450 - 3020)	3.32	1.18 + 1.48 + 2.01 + 3.84	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 18 + 25 + 50	0.97 + 1.17 + 1.62 + 3.24	7.00 (2.40 - 8.80)	2110 (450 - 3020)	3.32	1.18 + 1.48 + 2.01 + 3.84	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	15 + 18 + 35 + 35	1.02 + 1.22 + 2.38 + 2.38	7.00 (2.40 - 7.90)	2110 (450 - 3020)	3.32	1.30 + 1.62 + 2.79 + 2.79	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 25 + 25 + 25	1.17 + 1.94 + 1.94 + 1.94	7.00 (2.40 - 7.90)	2110 (450 - 2650)	3.32	1.39 + 2.37 + 2.37 + 2.37	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 25 + 25 + 35	1.05 + 1.75 + 1.75 + 2.45	7.00 (2.40 - 8.80)	2110 (450 - 2650)	3.32	1.30 + 2.21 + 2.21 + 2.79	8.50 (2.60 - 9.50)	2200 (480 - 2580)	3.86
	15 + 25 + 35 + 35	0.95 + 1.59 + 2.23 + 2.23	7.00 (2.40 - 8.80)	2110 (450 - 3020)	3.32	1.21 + 2.06 + 2.61 + 2.61	8.50 (2.60 - 9.50)	2180 (460 - 2520)	3.90
	18 + 18 + 18 + 18	1.75 + 1.75 + 1.75 + 1.75	7.00 (2.40 - 7.90)	2110 (450 - 2870)	3.32	2.13 + 2.13 + 2.13 + 2.13	8.50 (2.60 - 9.50)	2120 (480 - 2580)	4.01
	18 + 18 + 18 + 25	1.59 + 1.59 + 1.59 + 2.22	7.00 (2.40 - 7.90)	2110 (450 - 3020)	3.32	1.95 + 1.95 + 1.95 + 2.65	8.50 (2.60 - 9.50)	2120 (480 - 2580)	4.01
	18 + 18 + 18 + 35	1.42 + 1.42 + 1.42 + 2.75	7.00 (2.40 - 8.50)	2110 (450 - 3090)	3.32	1.80 + 1.80 + 1.80 + 3.10	8.50 (2.60 - 9.50)	2120 (460 - 2520)	4.01
	18 + 18 + 18 + 42	1.31 + 1.31 + 1.31 + 3.06	7.00 (2.40 - 8.80)	2110 (450 - 3200)	3.32	1.52 + 1.52 + 1.52 + 3.95	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03
	18 + 18 + 18 + 50	1.21 + 1.21 + 1.21 + 3.37	7.00 (2.40 - 8.80)	2110 (450 - 3200)	3.32	1.52 + 1.52 + 1.52 + 3.95	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03
18 + 18 + 25 + 25	1.47 + 1.47 + 2.03 + 2.03	7.00 (2.40 - 8.50)	2110 (450 - 3090)	3.32	1.80 + 1.80 + 2.45 + 2.45	8.50 (2.60 - 9.50)	2120 (460 - 2520)	4.01	
18 + 18 + 25 + 35	1.31 + 1.31 + 1.82 + 2.55	7.00 (2.40 - 8.50)	2100 (450 - 3090)	3.33	1.67 + 1.67 + 2.28 + 2.88	8.50 (2.60 - 9.50)	2120 (460 - 2520)	4.01	
18 + 18 + 35 + 35	1.19 + 1.19 + 2.31 + 2.31	7.00 (2.40 - 8.80)	2100 (450 - 3200)	3.33	1.56 + 1.56 + 2.69 + 2.69	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03	
18 + 25 + 25 + 25	1.35 + 1.88 + 1.88 + 1.88	7.00 (2.40 - 8.50)	2100 (450 - 3090)	3.33	1.67 + 2.28 + 2.28 + 2.28	8.50 (2.60 - 9.50)	2120 (460 - 2520)	4.01	
18 + 25 + 25 + 35	1.22 + 1.70 + 1.70 + 2.38	7.00 (2.40 - 8.80)	2100 (450 - 3200)	3.33	1.56 + 2.13 + 2.13 + 2.69	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03	
18 + 25 + 25 + 42	1.15 + 1.59 + 1.59 + 2.67	7.00 (2.40 - 8.80)	2100 (450 - 3200)	3.33	1.56 + 2.13 + 2.13 + 2.69	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03	
25 + 25 + 25 + 25	1.75 + 1.75 + 1.75 + 1.75	7.00 (2.40 - 8.80)	2100 (450 - 3200)	3.33	2.13 + 2.13 + 2.13 + 2.13	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03	
25 + 25 + 25 + 35	1.59 + 1.59 + 1.59 + 2.23	7.00 (2.40 - 8.80)	2100 (450 - 3200)	3.33	1.99 + 1.99 + 1.99 + 2.52	8.50 (2.60 - 9.50)	2110 (460 - 2520)	4.03	

Indoor unit combinations

Multi-split

Standard multi-split

	RAM - 90NP5E	COOLING MODE				HEATING MODE			
		Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP
1 unit*	15	1.50	1.50 (1.00 - 1.60)	420 (320 - 480)	3.57	2.00	2.00 (1.50 - 2.20)	620 (360 - 850)	3.23
	18	2.00	1.80 (1.70 - 2.00)	500 (320 - 610)	3.60	2.50	2.50 (2.00 - 3.00)	780 (360 - 920)	3.21
	25	2.50	2.50 (1.70 - 2.80)	700 (320 - 860)	3.57	3.40	3.40 (2.00 - 4.00)	1140 (360 - 1340)	2.98
	35	3.50	3.50 (1.70 - 3.90)	1040 (320 - 1270)	3.37	4.30	4.30 (2.00 - 5.20)	1420 (360 - 1720)	3.03
	42	4.20	4.20 (1.70 - 4.20)	1250 (320 - 1270)	3.36	5.20	4.30 (2.00 - 6.50)	1420 (360 - 1720)	3.66
	50	5.00	5.00 (1.70 - 5.50)	1540 (320 - 1860)	3.25	6.50	6.50 (2.00 - 7.30)	2300 (360 - 2580)	2.83
	60	6.00	6.00 (1.70 - 6.60)	1630 (320 - 1860)	3.68	7.50	7.50 (2.00 - 8.20)	2300 (360 - 2950)	3.26
2 units	15 + 15	1.50 + 1.50	3.00 (2.40 - 3.50)	850 (500 - 1020)	3.53	2.00 + 2.00	4.00 (2.70 - 4.50)	950 (500 - 1140)	4.21
	15 + 18	1.50 + 1.80	3.30 (2.40 - 3.80)	950 (500 - 1140)	3.47	2.00 + 2.50	4.50 (2.70 - 5.00)	1180 (500 - 1416)	3.81
	15 + 25	1.50 + 2.50	4.00 (2.40 - 4.50)	1250 (500 - 1500)	3.20	2.00 + 3.40	5.40 (2.70 - 5.90)	1320 (500 - 1584)	4.09
	15 + 35	1.50 + 3.50	5.00 (2.40 - 5.50)	1550 (500 - 1860)	3.23	2.00 + 4.30	6.30 (2.70 - 6.80)	1550 (500 - 1860)	4.06
	15 + 42	1.50 + 4.20	5.70 (2.40 - 7.00)	1600 (500 - 1860)	3.56	2.00 + 5.20	7.20 (2.70 - 8.0)	1850 (500 - 2560)	3.89
	15 + 50	1.50 + 5.00	6.50 (2.40 - 7.00)	2100 (500 - 2520)	3.10	2.00 + 6.50	8.50 (2.70 - 9.00)	2300 (500 - 2760)	3.70
	15 + 60	1.50 + 6.00	7.50 (2.40 - 7.00)	2100 (500 - 2520)	3.57	2.00 + 7.50	9.50 (2.70 - 10.0)	2300 (500 - 2760)	4.13
	18 + 18	1.80 + 1.80	3.60 (2.40 - 4.00)	970 (500 - 860)	3.71	2.50 + 2.50	5.00 (2.70 - 6.90)	1240 (500 - 1710)	4.03
	18 + 25	1.80 + 2.50	4.30 (2.40 - 4.70)	1000 (500 - 1190)	4.30	2.50 + 3.40	5.90 (2.70 - 7.70)	1530 (500 - 1990)	3.86
	18 + 35	1.80 + 3.50	5.30 (2.40 - 5.80)	1590 (500 - 1900)	3.33	2.50 + 4.30	6.80 (2.70 - 8.50)	1870 (500 - 2320)	3.64
	18 + 42	1.80 + 4.20	6.00 (2.40 - 5.80)	1850 (500 - 1900)	3.24	2.50 + 5.20	7.70 (2.70 - 10.00)	2200 (500 - 2880)	3.50
	18 + 50	1.80 + 5.00	6.80 (2.40 - 7.50)	2370 (450 - 2970)	2.87	2.50 + 6.50	9.00 (2.70 - 10.00)	2470 (500 - 2880)	3.64
	18 + 60	1.80 + 6.00	7.80 (2.40 - 8.50)	2370 (450 - 3120)	3.29	2.50 + 7.50	10.00 (2.70 - 10.00)	2470 (500 - 2880)	4.05
	25 + 25	2.50 + 2.50	5.00 (2.40 - 5.50)	1370 (500 - 1640)	3.65	3.40 + 3.40	6.80 (2.70 - 8.50)	1920 (500 - 2250)	3.54
	25 + 35	2.50 + 3.50	6.00 (2.40 - 6.60)	2000 (500 - 2400)	3.00	3.40 + 4.30	7.70 (2.70 - 9.20)	2280 (500 - 2590)	3.38
	25 + 42	2.50 + 4.20	6.70 (2.40 - 6.60)	2000 (500 - 3470)	3.35	3.40 + 5.20	8.60 (2.70 - 9.20)	2400 (500 - 3110)	3.58
	25 + 50	2.50 + 5.00	7.50 (2.40 - 7.00)	2580 (500 - 3470)	2.91	3.40 + 6.50	9.90 (2.70 - 10.50)	2720 (500 - 3110)	3.64
	25 + 60	2.50 + 6.00	8.50 (2.40 - 8.80)	2580 (500 - 3470)	3.29	3.12 + 6.88	10.00 (2.70 - 11.00)	2720 (500 - 3110)	3.68
	35 + 35	3.50 + 3.50	7.00 (2.40 - 7.70)	2490 (450 - 2990)	2.81	4.30 + 4.30	8.60 (2.70 - 10.00)	2460 (500 - 2860)	3.50
	35 + 42	3.50 + 4.20	7.70 (2.40 - 7.70)	2490 (500 - 2990)	3.09	4.30 + 5.20	9.50 (2.70 - 11.00)	2680 (500 - 3320)	3.54
	35 + 50	3.50 + 5.00	8.50 (2.40 - 8.80)	2900 (500 - 3270)	2.93	3.98 + 6.02	10.00 (2.70 - 11.00)	2940 (500 - 3320)	3.40
	35 + 60	3.13 + 5.37	8.50 (2.40 - 9.10)	2900 (500 - 3270)	2.93	3.64 + 6.36	10.00 (2.70 - 11.40)	2940 (500 - 3320)	3.40
	42 + 42	4.20 + 4.20	8.40 (2.40 - 8.80)	2490 (450 - 3270)	3.37	4.30 + 4.30	8.60 (2.70 - 11.00)	2460 (500 - 3200)	3.50
	42 + 50	3.88 + 4.62	8.50 (2.40 - 8.80)	2900 (450 - 3270)	2.93	4.30 + 5.20	9.50 (2.70 - 11.00)	2940 (500 - 3200)	3.23
	42 + 60	3.50 + 5.00	8.50 (2.40 - 9.10)	2900 (450 - 3420)	2.93	3.98 + 6.02	10.00 (2.70 - 11.40)	2940 (500 - 3200)	3.40
	50 + 50	4.25 + 4.25	8.50 (2.40 - 9.20)	2900 (450 - 3460)	2.93	5.00 + 5.00	10.00 (2.70 - 11.40)	2940 (500 - 3200)	3.40
	50 + 60	3.86 + 4.64	8.50 (2.40 - 9.60)	2900 (450 - 3570)	2.93	4.44 + 5.56	10.00 (2.70 - 11.60)	2940 (500 - 3200)	3.40
	60 + 60	4.25 + 4.25	8.50 (2.40 - 9.90)	2900 (450 - 3870)	2.93	5.00 + 5.00	10.00 (2.70 - 12.10)	2940 (500 - 3200)	3.40

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

Pipe lengths

RAM-90NP5E

L1 + L2 + L3 + L4 + L5 = Max. 75 m;

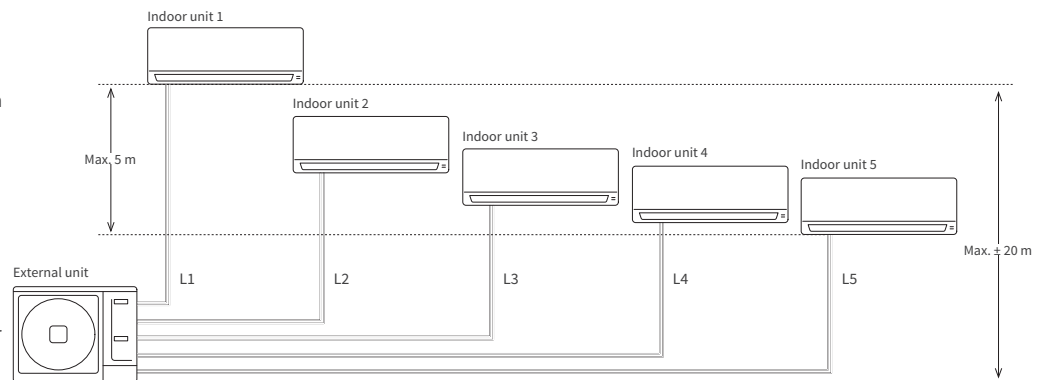
L1 < 25 m; L2 < 25 m;

L3 < 25 m; L4 < 25 m; L5 < 25 m

The max. level difference between 2 indoor units is 5m.

Pre-charged for 30 m. Beyond 30 m, allow an additional 15 g/m.

Always connect the most powerful indoor unit to the lowest connector. Connection 3 is intended for indoor units 18, 25 or 35, otherwise you need a 3/8-to-1/2 adapter.



RAM - 90NPSE	COOLING MODE				HEATING MODE				
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
3 units	15 + 15 + 15	1.50 + 1.50 + 1.50	4.50 (2.70 - 5.00)	1250 (510 - 1500)	3.60	2.00 + 2.00 + 2.00	6.00 (2.90 - 6.50)	1540 (520 - 1848)	3.90
	15 + 15 + 18	1.50 + 1.50 + 1.80	4.80 (2.70 - 5.30)	1350 (510 - 1620)	3.56	2.00 + 2.00 + 2.50	6.50 (2.90 - 7.00)	1800 (520 - 2160)	3.61
	15 + 15 + 25	1.50 + 1.50 + 2.50	5.50 (2.70 - 6.00)	1490 (510 - 1788)	3.69	2.00 + 2.00 + 3.40	7.40 (2.90 - 7.90)	2010 (520 - 2412)	3.68
	15 + 15 + 35	1.50 + 1.50 + 3.50	6.50 (2.70 - 7.00)	2100 (510 - 2678)	3.10	2.00 + 2.00 + 4.30	8.30 (2.90 - 8.80)	2420 (520 - 2904)	3.43
	15 + 15 + 42	1.50 + 1.50 + 4.20	7.20 (2.70 - 8.50)	2150 (510 - 2676)	3.35	2.00 + 2.00 + 5.20	9.20 (2.90 - 11.00)	2180 (520 - 1848)	4.22
	15 + 15 + 50	1.50 + 1.50 + 5.00	8.00 (2.70 - 8.50)	2230 (510 - 2676)	3.59	1.90 + 1.90 + 6.19	10.00 (2.90 - 11.00)	2730 (520 - 1848)	3.66
	15 + 15 + 60	1.42 + 1.42 + 5.67	8.50 (2.70 - 8.50)	2230 (510 - 2676)	3.81	1.74 + 1.74 + 6.52	10.00 (2.90 - 11.50)	2730 (520 - 1848)	3.66
	15 + 18 + 18	1.50 + 1.80 + 1.80	5.10 (2.70 - 5.60)	1350 (510 - 1620)	3.78	2.00 + 2.50 + 2.50	7.00 (2.90 - 7.50)	1880 (520 - 2280)	3.72
	15 + 18 + 25	1.50 + 1.80 + 2.50	5.80 (2.70 - 6.30)	1350 (510 - 1620)	4.30	2.00 + 2.50 + 3.40	7.90 (2.90 - 8.40)	2130 (520 - 2616)	3.71
	15 + 18 + 35	1.50 + 1.80 + 3.50	6.80 (2.70 - 7.30)	1850 (510 - 2844)	3.68	2.00 + 2.50 + 4.30	8.80 (2.90 - 9.30)	2350 (520 - 1848)	3.74
	15 + 18 + 42	1.50 + 1.80 + 4.20	7.50 (2.40 - 7.00)	1950 (510 - 2844)	3.85	2.00 + 2.50 + 5.20	9.70 (2.90 - 11.00)	2350 (520 - 3360)	4.13
	15 + 18 + 50	1.50 + 1.80 + 5.00	8.30 (2.70 - 8.80)	2230 (510 - 2844)	3.72	1.82 + 2.27 + 5.91	10.00 (2.90 - 11.50)	2850 (520 - 3360)	3.51
	15 + 18 + 60	1.37 + 1.65 + 5.48	8.50 (2.70 - 8.80)	2230 (510 - 2844)	3.81	1.67 + 2.08 + 6.25	10.00 (2.90 - 11.50)	2850 (520 - 3360)	3.51
	15 + 25 + 25	1.50 + 2.50 + 2.50	6.50 (2.70 - 7.00)	1800 (510 - 2520)	3.61	2.00 + 3.40 + 3.40	8.80 (2.90 - 9.30)	2350 (520 - 1848)	3.74
	15 + 25 + 35	1.50 + 2.50 + 3.50	7.50 (2.40 - 7.00)	2100 (510 - 3096)	3.57	2.00 + 3.40 + 4.30	9.70 (2.90 - 10.20)	2620 (520 - 1848)	3.70
	15 + 25 + 42	1.50 + 2.50 + 4.20	8.20 (2.70 - 9.50)	2200 (510 - 3360)	3.73	1.89 + 3.21 + 4.91	10.00 (2.70 - 11.00)	2620 (520 - 1848)	3.82
	15 + 25 + 50	1.42 + 2.36 + 4.72	8.50 (2.70 - 9.50)	2680 (510 - 3360)	3.17	1.68 + 2.86 + 5.46	10.00 (2.70 - 11.50)	2890 (520 - 3360)	3.46
	15 + 25 + 60	1.28 + 2.13 + 5.10	8.50 (2.70 - 9.50)	2680 (510 - 3360)	3.17	1.55 + 2.64 + 5.81	10.00 (2.70 - 11.50)	2890 (520 - 3360)	3.46
	15 + 35 + 35	1.50 + 3.50 + 3.50	8.50 (2.70 - 9.00)	2560 (510 - 3360)	3.32	1.89 + 4.06 + 4.06	10.00 (2.90 - 11.10)	2990 (520 - 3360)	3.34
	15 + 35 + 42	1.39 + 3.23 + 3.88	8.50 (2.70 - 9.50)	2560 (510 - 3216)	3.32	1.74 + 3.74 + 4.52	10.00 (2.90 - 11.10)	2990 (520 - 3360)	3.34
	15 + 35 + 50	1.28 + 2.98 + 4.25	8.50 (2.70 - 9.50)	2740 (510 - 3216)	3.10	1.56 + 3.36 + 5.08	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 35 + 60	1.16 + 2.70 + 4.64	8.50 (2.70 - 9.50)	2740 (510 - 3216)	3.10	1.45 + 3.12 + 5.43	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 42 + 42	1.29 + 3.61 + 3.61	8.50 (2.70 - 9.50)	2560 (510 - 3216)	3.32	1.61 + 4.19 + 4.19	10.00 (2.90 - 11.10)	2990 (520 - 3360)	3.34
	15 + 42 + 50	1.19 + 3.34 + 3.97	8.50 (2.70 - 9.50)	2740 (510 - 3216)	3.10	1.46 + 3.80 + 4.74	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 42 + 60	1.09 + 3.05 + 4.36	8.50 (2.70 - 9.50)	2740 (510 - 3216)	3.10	1.36 + 3.54 + 5.10	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 50 + 50	1.11 + 3.70 + 3.70	8.50 (2.70 - 9.50)	2740 (510 - 3216)	3.10	1.33 + 4.33 + 4.33	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 50 + 60	1.02 + 3.40 + 4.08	8.50 (2.70 - 9.50)	2740 (510 - 3216)	3.10	1.25 + 4.06 + 4.69	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	15 + 60 + 60	0.94 + 3.78 + 3.78	8.50 (2.70 - 9.50)	2740 (510 - 3288)	3.10	1.18 + 4.41 + 4.41	10.00 (2.90 - 11.50)	2890 (520 - 3360)	3.46
	18 + 18 + 18	1.80 + 1.80 + 1.80	5.40 (2.70 - 5.90)	1480 (510 - 1780)	3.65	2.50 + 2.50 + 2.50	7.50 (2.90 - 9.10)	2020 (520 - 2440)	3.71
	18 + 18 + 25	1.80 + 1.80 + 2.50	6.10 (2.70 - 6.70)	1780 (510 - 2150)	3.43	2.50 + 2.50 + 3.40	8.40 (2.90 - 9.50)	2210 (520 - 2620)	3.80
	18 + 18 + 35	1.80 + 1.80 + 3.50	7.10 (2.70 - 7.80)	1910 (510 - 2310)	3.72	2.50 + 2.50 + 4.29	9.30 (2.90 - 10.20)	2370 (520 - 2740)	3.92
	18 + 18 + 42	1.80 + 1.80 + 4.20	7.80 (2.70 - 7.80)	1910 (510 - 3260)	4.08	2.45 + 2.45 + 5.09	10.00 (2.90 - 10.20)	2370 (520 - 3060)	4.22
	18 + 18 + 50	1.78 + 1.78 + 4.94	8.50 (2.70 - 9.50)	2650 (510 - 3260)	3.21	2.17 + 2.17 + 5.64	10.00 (2.90 - 11.30)	2730 (520 - 3060)	3.66
	18 + 18 + 60	1.59 + 1.59 + 5.31	8.50 (2.70 - 9.90)	2650 (510 - 3270)	3.21	2.00 + 2.00 + 5.99	10.00 (2.90 - 11.60)	2730 (520 - 3060)	3.66
	18 + 25 + 25	1.80 + 2.50 + 2.50	6.80 (2.70 - 7.50)	1860 (510 - 2260)	3.66	2.49 + 3.41 + 3.41	9.30 (2.90 - 10.00)	2370 (520 - 2760)	3.92
	18 + 25 + 35	1.80 + 2.50 + 3.50	7.80 (2.7 - 8.6)	2190 (510 - 2660)	3.56	2.45 + 3.33 + 4.22	10.00 (2.90 - 10.70)	2530 (520 - 2880)	3.95
	18 + 25 + 42	1.80 + 2.50 + 4.20	8.50 (2.7 - 8.6)	2190 (510 - 3270)	3.88	2.25 + 3.06 + 4.68	10.00 (2.90 - 11.00)	2530 (520 - 3220)	3.95
	18 + 25 + 50	1.66 + 2.26 + 4.58	8.50 (2.70 - 9.90)	2550 (510 - 3270)	3.33	2.02 + 2.74 + 5.24	10.00 (2.90 - 11.60)	2890 (520 - 3220)	3.46
	18 + 25 + 60	1.50 + 2.04 + 4.96	8.50 (2.70 - 9.90)	2550 (510 - 3320)	3.33	1.87 + 2.54 + 5.60	10.00 (2.90 - 11.60)	2890 (520 - 3220)	3.46
	18 + 35 + 35	1.74 + 3.38 + 3.38	8.50 (2.70 - 9.70)	2600 (510 - 3260)	3.27	2.25 + 3.87 + 3.87	10.00 (2.90 - 11.60)	2750 (520 - 3060)	3.64
	18 + 35 + 42	1.61 + 3.13 + 3.76	8.50 (2.70 - 9.70)	2600 (510 - 3320)	3.27	2.08 + 3.58 + 4.33	10.00 (2.90 - 11.60)	2750 (520 - 3330)	3.64
	18 + 35 + 50	1.47 + 2.88 + 4.16	8.50 (2.70 - 9.90)	2590 (510 - 3320)	3.28	1.88 + 3.23 + 4.90	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34
	18 + 35 + 60	1.33 + 2.62 + 4.54	8.50 (2.70 - 9.90)	2590 (510 - 3320)	3.28	1.75 + 3.01 + 5.25	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34
	18 + 42 + 42	1.50 + 3.50 + 3.50	8.50 (2.70 - 9.90)	2600 (510 - 3320)	3.27	2.25 + 3.87 + 3.87	10.00 (2.90 - 11.60)	2750 (520 - 3330)	3.64
	18 + 42 + 50	1.37 + 3.24 + 3.89	8.50 (2.70 - 9.90)	2590 (510 - 3320)	3.28	2.08 + 3.58 + 4.34	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34
18 + 42 + 60	1.26 + 2.97 + 4.28	8.50 (2.70 - 9.90)	2590 (510 - 3320)	3.28	1.88 + 3.23 + 4.90	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34	
18 + 50 + 50	1.31 + 3.60 + 3.60	8.50 (2.70 - 9.90)	2590 (510 - 3320)	3.28	1.52 + 3.94 + 4.55	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34	
18 + 50 + 60	1.21 + 3.32 + 3.98	8.50 (2.70 - 9.90)	2590 (510 - 3280)	3.28	1.94 + 4.03 + 4.03	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34	
18 + 60 + 60	1.12 + 3.70 + 3.70	8.50 (2.70 - 9.90)	2590 (510 - 3320)	3.28	1.76 + 3.66 + 4.58	10.00 (2.90 - 12.10)	2990 (520 - 3330)	3.34	
25 + 25 + 25	2.50 + 2.50 + 2.50	7.50 (2.40 - 7.00)	2120 (510 - 2580)	3.54	3.33 + 3.33 + 3.33	10.00 (2.90 - 10.40)	2540 (520 - 2920)	3.94	
25 + 25 + 35	2.50 + 2.50 + 3.50	8.50 (2.70 - 9.4)	2560 (510 - 3110)	3.32	3.06 + 3.06 + 3.87	10.00 (2.90 - 11.20)	2730 (520 - 3070)	3.66	
25 + 25 + 42	2.31 + 2.31 + 3.88	8.50 (2.70 - 9.4)	2560 (510 - 3360)	3.32	2.83 + 2.83 + 4.33	10.00 (2.90 - 11.60)	2730 (520 - 3330)	3.66	
25 + 25 + 50	2.13 + 2.13 + 4.25	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.56 + 2.56 + 4.89	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34	
25 + 25 + 60	1.93 + 1.93 + 4.64	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.38 + 2.38 + 5.24	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34	
25 + 35 + 35	2.23 + 3.13 + 3.13	8.50 (2.70 - 9.90)	2600 (510 - 3330)	3.27	2.83 + 3.58 + 3.58	10.00 (2.90 - 11.60)	2890 (520 - 3220)	3.46	
25 + 35 + 42	2.07 + 2.92 + 3.50	8.50 (2.70 - 9.90)	2600 (510 - 3350)	3.27	2.64 + 3.33 + 4.03	10.00 (2.90 - 11.60)	2890 (520 - 3330)	3.46	
25 + 35 + 50	1.93 + 2.69 + 3.87	8.50 (2.70 - 9.90)	2620 (510 - 3350)	3.24	2.39 + 3.02 + 4.59	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34	



Indoor unit combinations

Standard multi-split

Multi-split

	RAM - 90NPSE	COOLING MODE				HEATING MODE			
		Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP
3 units	25 + 35 + 60	1.77 + 2.47 + 4.26	8.50 (2.70 - 9.90)	2620 (510 - 3350)	3.24	2.24 + 2.82 + 4.94	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	25 + 42 + 42	1.94 + 3.28 + 3.28	8.50 (2.70 - 9.90)	2600 (510 - 3360)	3.27	2.83 + 3.58 + 3.58	10.00 (2.90 - 11.70)	2890 (520 - 3330)	3.46
	25 + 42 + 50	1.82 + 3.04 + 3.64	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.64 + 3.32 + 4.04	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34
	25 + 42 + 60	1.67 + 2.80 + 4.03	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.39 + 3.02 + 4.59	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	25 + 50 + 50	1.70 + 3.40 + 3.40	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	1.95 + 3.74 + 4.31	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	25 + 50 + 60	1.57 + 3.15 + 3.78	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.46 + 3.77 + 3.77	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	25 + 60 + 60	1.47 + 3.52 + 3.52	8.50 (2.70 - 9.90)	2620 (510 - 3350)	3.24	2.25 + 3.44 + 4.30	10.00 (2.90 - 12.10)	2990 (520 - 3330)	3.34
	35 + 35 + 35	2.83 + 2.83 + 2.83	8.50 (2.70 - 9.90)	2600 (510 - 3320)	3.27	3.33 + 3.33 + 3.33	10.00 (2.90 - 11.60)	2990 (520 - 3330)	3.34
	35 + 35 + 42	2.66 + 2.66 + 3.19	8.50 (2.70 - 9.90)	2600 (510 - 3360)	3.27	3.12 + 3.12 + 3.77	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	35 + 35 + 50	2.50 + 2.50 + 3.49	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.85 + 2.87 + 4.25	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	35 + 35 + 60	2.31 + 2.31 + 3.87	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.67 + 2.69 + 4.61	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	35 + 42 + 42	2.50 + 3.00 + 3.00	8.50 (2.70 - 9.90)	2600 (510 - 3360)	3.27	2.93 + 3.54 + 3.54	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	35 + 42 + 50	2.36 + 2.83 + 3.30	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.69 + 3.27 + 4.01	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	35 + 42 + 60	2.19 + 2.63 + 3.67	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.53 + 3.08 + 4.36	10.00 (2.90 - 11.70)	2990 (520 - 3330)	3.34
	35 + 50 + 50	2.17 + 3.17 + 3.17	8.50 (2.70 - 9.90)	2620 (510 - 3360)	3.24	2.49 + 3.78 + 3.78	10.00 (2.90 - 12.10)	2990 (520 - 3330)	3.34
	35 + 50 + 60	2.02 + 2.95 + 3.54	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	2.35 + 3.57 + 4.12	10.00 (2.90 - 12.10)	2990 (520 - 3330)	3.34
	35 + 60 + 60	1.89 + 3.31 + 3.31	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	2.23 + 3.91 + 3.91	10.00 (2.90 - 12.10)	2990 (520 - 3330)	3.34
	42 + 42 + 42	2.80 + 2.85 + 2.85	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	3.33 + 3.35 + 3.35	10.00 (2.90 - 12.10)	2990 (520 - 3180)	3.34
	42 + 42 + 50	2.63 + 2.68 + 3.19	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	3.08 + 3.10 + 3.87	10.00 (2.90 - 12.10)	2990 (520 - 3180)	3.34
	42 + 42 + 60	2.45 + 2.50 + 3.56	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	2.91 + 2.93 + 4.21	10.00 (2.90 - 12.10)	2990 (520 - 3180)	3.34
42 + 50 + 50	2.48 + 3.01 + 3.01	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	2.91 + 2.93 + 4.21	10.00 (2.90 - 12.10)	2990 (520 - 3180)	3.34	
42 + 50 + 60	2.32 + 2.82 + 3.38	8.50 (2.70 - 9.90)	2620 (510 - 3450)	3.24	2.91 + 2.93 + 4.21	10.00 (2.90 - 12.10)	2990 (520 - 3180)	3.34	
50 + 50 + 50	2.83 + 2.83 + 2.83	8.50 (2.70 - 9.90)	2690 (510 - 3450)	3.16	3.33 + 3.33 + 3.33	10.00 (2.90 - 12.10)	2890 (520 - 3180)	3.46	
4 units	15 + 15 + 15 + 15	1.50 + 1.50 + 1.50 + 1.50	6.00 (2.90 - 6.50)	1580 (550 - 1620)	3.80	2.00 + 2.00 + 2.00 + 2.00	8.00 (3.00 - 8.50)	2000 (540 - 2652)	4.00
	15 + 15 + 15 + 18	1.50 + 1.50 + 1.50 + 1.80	6.30 (2.90 - 6.50)	1630 (550 - 1776)	3.87	2.00 + 2.00 + 2.00 + 2.50	8.50 (3.00 - 9.00)	2200 (540 - 2760)	3.86
	15 + 15 + 15 + 25	1.50 + 1.50 + 1.50 + 2.50	7.00 (2.90 - 7.50)	1780 (550 - 2136)	3.93	2.00 + 2.00 + 2.00 + 3.40	9.40 (3.00 - 9.90)	2390 (540 - 3036)	3.93
	15 + 15 + 15 + 35	1.50 + 1.50 + 1.50 + 3.50	8.00 (2.90 - 8.50)	2500 (550 - 3180)	3.20	1.94 + 1.94 + 1.94 + 4.17	10.00 (3.00 - 10.80)	2550 (540 - 3468)	3.92
	15 + 15 + 15 + 42	1.47 + 1.47 + 1.47 + 4.10	8.50 (2.90 - 8.50)	2600 (550 - 3180)	3.27	1.79 + 1.79 + 1.79 + 4.64	10.00 (3.00 - 11.50)	2550 (540 - 3360)	3.92
	15 + 15 + 15 + 50	1.34 + 1.34 + 1.34 + 4.47	8.50 (2.90 - 8.50)	2650 (550 - 3180)	3.21	1.60 + 1.60 + 1.60 + 5.20	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 15 + 60	1.21 + 1.21 + 1.21 + 4.86	8.50 (2.90 - 8.50)	2650 (550 - 3180)	3.21	1.48 + 1.48 + 1.48 + 5.56	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 18 + 18	1.50 + 1.50 + 1.80 + 1.80	6.60 (2.90 - 7.10)	1750 (550 - 2100)	3.77	2.00 + 2.00 + 2.50 + 2.50	9.00 (3.00 - 9.50)	2380 (540 - 3048)	3.78
	15 + 15 + 18 + 25	1.50 + 1.50 + 1.80 + 2.50	7.30 (2.90 - 7.80)	1850 (550 - 2220)	3.95	2.00 + 2.00 + 2.50 + 3.40	9.90 (3.00 - 10.40)	2530 (540 - 3144)	3.91
	15 + 15 + 18 + 35	1.50 + 1.50 + 1.80 + 3.50	8.30 (2.90 - 8.80)	2180 (550 - 2616)	3.81	1.85 + 1.85 + 2.31 + 3.98	10.00 (3.00 - 11.30)	2480 (540 - 3468)	4.03
	15 + 15 + 18 + 42	1.42 + 1.42 + 1.70 + 3.97	8.50 (2.90 - 8.50)	2350 (550 - 3120)	3.62	1.71 + 1.71 + 2.14 + 4.44	10.00 (3.00 - 11.30)	2480 (540 - 3360)	4.03
	15 + 15 + 18 + 50	1.30 + 1.30 + 1.56 + 4.34	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.54 + 1.54 + 1.92 + 5.00	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 18 + 60	1.18 + 1.18 + 1.42 + 4.72	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.43 + 1.43 + 1.79 + 5.36	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 25 + 25	1.50 + 1.50 + 2.50 + 2.50	8.00 (2.90 - 8.50)	2150 (550 - 2580)	3.72	1.85 + 1.85 + 3.15 + 3.15	10.00 (3.00 - 11.30)	2480 (540 - 3420)	4.03
	15 + 15 + 25 + 35	1.42 + 1.42 + 2.36 + 3.31	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.71 + 1.71 + 2.91 + 3.68	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 25 + 42	1.31 + 1.31 + 2.19 + 3.68	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.59 + 1.59 + 2.70 + 4.13	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 25 + 50	1.21 + 1.21 + 2.02 + 4.05	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.44 + 1.44 + 2.45 + 4.68	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 25 + 60	1.11 + 1.11 + 1.85 + 4.43	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.34 + 1.34 + 2.28 + 5.03	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 35 + 35	1.28 + 1.28 + 2.98 + 2.98	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.59 + 1.59 + 3.41 + 3.41	10.00 (3.00 - 11.30)	2890 (540 - 3480)	3.46
	15 + 15 + 35 + 42	1.19 + 1.19 + 2.78 + 3.34	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.48 + 1.48 + 3.19 + 3.85	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15 + 15 + 35 + 50	1.11 + 1.11 + 2.59 + 3.70	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.35 + 1.35 + 2.91 + 4.39	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15 + 15 + 35 + 60	1.02 + 1.02 + 2.38 + 4.08	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.27 + 1.27 + 2.72 + 4.75	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15 + 15 + 42 + 42	1.12 + 1.12 + 3.13 + 3.13	8.50 (2.90 - 8.50)	2600 (550 - 3120)	3.27	1.59 + 1.59 + 3.41 + 3.41	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15 + 15 + 42 + 50	1.05 + 1.05 + 2.93 + 3.48	8.50 (2.90 - 8.50)	2600 (550 - 3210)	3.27	1.48 + 1.48 + 3.19 + 3.85	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15 + 15 + 42 + 60	0.97 + 0.97 + 2.70 + 3.86	8.50 (2.9 - 8.50)	2600 (550 - 3210)	3.27	1.35 + 1.35 + 2.91 + 4.39	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15 + 15 + 50 + 50	0.98 + 0.98 + 3.27 + 3.27	8.50 (2.50 - 8.50)	2600 (550 - 3210)	3.27	1.39 + 1.39 + 3.61 + 3.61	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 50 + 60	0.91 + 0.91 + 3.04 + 3.64	8.50 (2.50 - 8.50)	2600 (550 - 3210)	3.27	1.27 + 1.27 + 3.31 + 4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15 + 15 + 60 + 60	0.85 + 0.85 + 3.40 + 3.40	8.50 (2.50 - 8.50)	2600 (550 - 3210)	3.27	1.27 + 1.27 + 3.31 + 4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
15 + 18 + 18 + 18	1.50 + 1.80 + 1.80 + 1.80	6.90 (2.50 - 7.40)	2140 (550 - 2244)	3.22	2.00 + 2.50 + 2.50 + 2.50	9.50 (3.00 - 10.0)	2750 (540 - 3144)	3.45	
15 + 18 + 18 + 25	1.50 + 1.80 + 1.80 + 2.50	7.60 (2.50 - 8.10)	2140 (550 - 2568)	3.55	1.92 + 2.40 + 2.40 + 3.27	10.00 (3.00 - 10.90)	2750 (540 - 3468)	3.64	
15 + 18 + 18 + 35	1.48 + 1.78 + 1.78 + 3.46	8.50 (2.50 - 8.50)	2140 (550 - 3060)	3.97	1.77 + 2.21 + 2.21 + 3.81	10.00 (3.00 - 11.50)	2750 (540 - 3360)	3.64	

RAM - 90NPSE	COOLING MODE				HEATING MODE				
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
4 units	15+18+18+42	1.37+1.65+1.65+3.84	8.50 (2.50 - 8.50)	2550 (550 - 3120)	3.33	1.64+2.05+2.05+4.26	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+18+50	1.26+1.51+1.51+4.21	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.48+1.85+1.85+4.81	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+18+60	1.15+1.38+1.38+4.59	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.38+1.72+1.72+5.17	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+25+25	1.50+1.80+2.50+2.50	8.30 (2.50 - 8.3)	2740 (550 - 3288)	3.03	1.77+2.21+3.01+3.01	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+25+35	1.37+1.65+2.28+3.20	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.64+2.05+2.79+3.52	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+25+42	1.28+1.53+2.13+3.57	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53+1.91+2.60+3.97	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+25+50	1.18+1.42+1.97+3.94	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.39+1.74+2.36+4.51	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+25+60	1.08+1.30+1.80+4.32	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.30+1.62+2.21+4.87	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+35+35	1.24+1.49+2.89+2.89	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53+1.91+3.28+3.28	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+35+42	1.16+1.39+2.70+3.25	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43+1.79+3.07+3.71	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+35+50	1.08+1.30+2.52+3.60	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.31+1.63+2.81+4.25	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+18+35+60	1.00+1.20+2.32+3.98	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23+1.53+2.64+4.60	10.00 (3.00 - 11.30)	2890 (540 - 3360)	3.46
	15+18+42+42	1.09+1.31+3.05+3.05	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53+1.91+3.28+3.28	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57
	15+18+42+50	1.02+1.22+2.86+3.40	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43+1.79+3.07+3.71	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57
	15+18+42+60	0.94+1.13+2.64+3.78	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.31+1.63+2.81+4.25	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57
	15+18+50+50	0.96+1.15+3.20+3.20	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.34+1.68+3.49+3.49	10.00 (3.00 - 10.50)	#N/A	#N/A
	15+18+50+60	0.89+1.07+2.97+3.57	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23+1.54+3.21+4.01	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57
	15+18+60+60	0.83+1.00+3.33+3.33	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.14+1.43+3.71+3.71	10.00 (3.00 - 10.50)	2800 (540 - 3360)	3.57
	15+25+25+25	1.42+2.36+2.36+2.36	8.50 (2.50 - 8.50)	2600 (550 - 3132)	3.27	1.64+2.79+2.79+2.79	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+25+35	1.28+2.13+2.13+2.98	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.53+2.60+2.60+3.28	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+25+42	1.19+1.99+1.99+3.34	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43+2.43+2.43+3.71	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+25+50	1.11+1.85+1.85+3.70	8.50 concrete pipe (TBA)	2600 (550 - 3120)	3.27	1.31+2.22+2.22+4.25	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+25+60	1.02+1.70+1.70+4.08	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23+2.09+2.09+4.60	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+35+35	1.16+1.93+2.70+2.70	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.43+2.43+3.07+3.07	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+35+42	1.09+1.82+2.54+3.05	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.34+2.28+2.89+3.49	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+35+50	1.02+1.70+2.38+3.40	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.23+2.10+2.65+4.01	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+35+60	0.94+1.57+2.20+3.78	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.16+1.98+2.50+4.36	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+42+42	1.03+1.71+2.88+2.88	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.27+2.15+3.29+3.29	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+42+50	0.97+1.61+2.70+3.22	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.17+1.99+3.04+3.80	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+42+60	0.90+1.50+2.51+3.59	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.10+1.88+2.87+4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+50+50	0.91+1.52+3.04+3.04	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.09+1.85+3.53+3.53	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+25+50+60	0.85+1.42+2.83+3.40	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.03+1.75+3.35+3.87	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+35+35	1.06+2.48+2.48+2.48	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.34+2.89+2.89+2.89	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+35+42	1.00+2.34+2.34+2.81	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.27+2.72+2.72+3.29	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+35+50	0.94+2.20+2.20+3.15	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.17+2.51+2.51+3.80	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+35+60	0.88+2.05+2.05+3.52	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.10+2.38+2.38+4.14	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+42+42	0.95+2.22+2.66+2.66	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.20+2.57+3.11+3.11	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+42+50	0.90+2.10+2.51+2.99	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.11+2.39+2.89+3.61	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+42+60	0.84+1.96+2.35+3.36	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.05+2.26+2.74+3.95	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+35+50+50	0.85+1.98+2.83+2.83	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.04+2.23+3.37+3.37	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+42+42+42	0.90+2.53+2.53+2.53	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.14+2.95+2.95+2.95	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
	15+42+42+50	0.86+2.40+2.40+2.85	8.50 (2.50 - 8.50)	2600 (550 - 3120)	3.27	1.06+2.75+2.75+3.44	10.00 (3.00 - 11.50)	2890 (540 - 3360)	3.46
18+18+18+18	1.80+1.80+1.80+1.80	7.20 (2.90 - 7.90)	2330 (550 - 2292)	3.09	2.50+2.50+2.50+2.50	10.00 (3.00 - 10.90)	2400 (540 - 2720)	4.17	
18+18+18+25	1.80+1.80+1.80+2.50	7.90 (2.90 - 8.70)	2380 (550 - 3120)	3.32	2.29+2.29+2.29+3.12	10.00 (3.00 - 11.10)	2700 (540 - 3050)	3.70	
18+18+18+35	1.72+1.72+1.72+3.34	8.50 (2.90 - 9.80)	2630 (550 - 3120)	3.23	2.12+2.12+2.12+3.64	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+18+42	1.59+1.59+1.59+3.72	8.50 (2.90 - 9.80)	2640 (550 - 3260)	3.22	1.97+1.97+1.97+4.09	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+18+50	1.46+1.46+1.46+4.11	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.79+1.78+1.78+4.66	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+18+60	1.33+1.33+1.33+4.49	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.67+1.66+1.66+5.02	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+25+25	1.78+1.78+2.47+2.47	8.50 (2.90 - 9.50)	2690 (550 - 3040)	3.16	2.12+2.12+2.88+2.88	10.00 (3.00 - 11.20)	2700 (540 - 3020)	3.70	
18+18+25+35	1.59+1.59+2.21+3.10	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.97+1.97+2.68+3.39	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+25+42	1.49+1.49+2.06+3.47	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.84+1.84+2.50+3.82	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+25+50	1.37+1.37+1.90+3.88	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.68+1.67+2.27+4.41	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+25+60	1.25+1.25+1.75+4.26	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.57+1.56+2.13+4.77	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+35+35	1.44+1.44+2.81+2.81	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.84+1.84+3.16+3.16	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+35+42	1.35+1.35+2.63+3.16	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.72+1.72+2.97+3.59	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+35+50	1.27+1.27+2.46+3.49	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.58+1.59+2.72+4.09	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+18+35+60	1.18+1.18+2.27+3.87	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.49+1.50+2.56+4.44	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	



Indoor unit combinations

Standard multi-split

Multi-split

RAM - 90NPSE	COOLING MODE					HEATING MODE			
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
18+18+42+42	1.28+1.28+2.98+2.98	8.50 (2.90 - 9.90)	2390 (550 - 3230)	3.56	1.62+1.62+3.38+3.38	10.00 (3.00 - 11.60)	2700 (540 - 3020)	3.70	
18+18+42+50	1.21+1.21+2.79+3.30	8.50 (2.90 - 9.90)	2390 (550 - 3230)	3.56	1.50+1.51+3.11+3.87	10.00 (3.00 - 11.60)	2700 (540 - 3020)	3.70	
18+18+42+60	1.12+1.12+2.59+3.68	8.50 (2.90 - 9.90)	2390 (550 - 3230)	3.56	1.41+1.42+2.94+4.22	10.00 (3.00 - 11.60)	2700 (540 - 3020)	3.70	
18+18+50+50	1.14+1.14+3.12+3.12	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.39+1.40+3.60+3.60	10.00 (3.00 - 11.60)	2700 (540 - 3020)	3.70	
18+18+50+60	1.06+1.06+2.90+3.48	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.32+1.33+3.41+3.94	10.00 (3.00 - 12.10)	2700 (540 - 3020)	3.70	
18+25+25+25	1.68+2.28+2.28+2.28	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.97+2.70+2.70+2.62	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+25+35	1.52+2.08+2.08+2.83	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.84+2.52+2.52+3.10	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+25+42	1.42+1.92+1.92+3.24	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.72+2.33+2.33+3.58	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+25+50	1.33+1.79+1.79+3.59	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.58+2.14+2.14+4.10	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+25+60	1.23+1.65+1.65+3.97	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.49+2.01+2.01+4.45	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+35+35	1.32+1.89+2.64+2.64	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.72+2.35+2.98+2.98	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+35+42	1.25+1.78+2.49+2.99	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.62+2.22+2.80+3.39	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+35+50	1.23+1.65+2.31+3.30	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.50+2.03+2.56+3.87	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+35+60	1.14+1.53+2.15+3.68	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.41+1.91+2.42+4.22	10.00 (3.00 - 11.40)	2700 (540 - 3020)	3.70	
18+25+42+42	1.22+1.65+2.81+2.81	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.53+2.07+3.19+3.19	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+25+42+50	1.15+1.55+2.64+3.15	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.42+1.91+2.95+3.69	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+25+42+60	1.08+1.45+2.46+3.52	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.34+1.81+2.80+4.03	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+25+50+50	1.09+1.47+2.97+2.97	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.32+1.78+3.44+3.44	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+25+50+60	1.02+1.37+2.78+3.33	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.26+1.69+3.27+3.77	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+35+35+35	1.21+2.43+2.43+2.43	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.62+2.80+2.80+2.80	10.00 (3.00 - 12.10)	2700 (540 - 3020)	3.70	
18+35+35+42	1.15+2.30+2.30+2.76	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.53+2.65+2.65+3.20	10.00 (3.00 - 12.10)	2700 (540 - 3080)	3.70	
18+35+35+50	1.14+2.15+2.15+3.06	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.42+2.43+2.43+3.67	10.00 (3.00 - 12.10)	2700 (540 - 3080)	3.70	
18+35+35+60	1.06+2.00+2.00+3.43	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.34+2.30+2.30+4.01	10.00 (3.00 - 12.10)	2700 (540 - 3080)	3.70	
18+35+42+42	1.14+2.15+2.61+2.61	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.45+2.48+3.02+3.02	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+35+42+50	1.08+2.03+2.46+2.93	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.35+2.30+2.81+3.51	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+35+42+60	1.01+1.90+2.30+3.29	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.28+2.19+2.67+3.85	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
4 units 18+35+50+50	1.02+1.92+2.78+2.78	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.26+2.15+3.28+3.28	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+42+42+42	1.08+2.46+2.48+2.48	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.38+2.85+2.87+2.87	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
18+42+42+50	1.03+2.33+2.35+2.80	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.21+2.49+3.14+3.14	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
25+25+25+25	2.13+2.13+2.13+2.13	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	2.50+2.50+2.50+2.50	10.00 (3.00 - 11.4)	2700 (540 - 3020)	3.70	
25+25+25+35	1.93+1.93+1.93+2.69	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	2.34+2.34+2.34+2.96	10.00 (3.00 - 11.4)	2700 (540 - 3010)	3.70	
25+25+25+42	1.82+1.82+1.82+3.04	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	2.21+2.21+2.21+3.37	10.00 (3.00 - 11.4)	2700 (540 - 3010)	3.70	
25+25+25+50	1.70+1.70+1.70+3.40	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	2.04+2.04+2.04+3.89	10.00 (3.00 - 11.60)	2700 (540 - 3010)	3.70	
25+25+25+60	1.57+1.57+1.57+3.78	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	1.92+1.92+1.92+4.24	10.00 (3.00 - 11.60)	2700 (540 - 3010)	3.70	
25+25+35+35	1.77+1.77+2.47+2.47	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	2.21+2.21+2.78+2.78	10.00 (3.00 - 11.4)	2700 (540 - 3020)	3.70	
25+25+35+42	1.67+1.67+2.33+2.80	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	2.09+2.09+2.63+3.18	10.00 (3.00 - 12.10)	2700 (540 - 3010)	3.70	
25+25+35+50	1.57+1.57+2.20+3.15	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	1.93+1.93+2.44+3.69	10.00 (3.00 - 12.10)	2700 (540 - 3010)	3.70	
25+25+35+60	1.47+1.47+2.05+3.52	8.50 (2.90 - 9.90)	2370 (550 - 3260)	3.59	1.83+1.83+2.31+4.03	10.00 (3.00 - 12.10)	2700 (540 - 3010)	3.70	
25+25+42+42	1.59+1.59+2.65+2.65	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.98+1.98+3.01+3.01	10.00 (3.00 - 12.10)	2700 (540 - 2890)	3.70	
25+25+42+50	1.50+1.50+2.51+2.99	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.93+1.93+2.44+3.69	10.00 (3.00 - 12.10)	2700 (540 - 2890)	3.70	
25+25+42+60	1.40+1.40+2.35+3.36	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.83+1.83+2.31+4.03	10.00 (3.00 - 12.10)	2700 (540 - 2890)	3.70	
25+25+50+50	1.42+1.42+2.83+2.83	8.50 (2.90 - 9.90)	2370 (550 - 3230)	3.59	1.72+1.72+3.28+3.28	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
25+35+35+35	1.64+2.29+2.29+2.29	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	2.09+2.64+2.64+2.64	10.00 (3.00 - 11.60)	2700 (540 - 3010)	3.70	
25+35+35+42	1.56+2.17+2.17+2.61	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.98+2.50+2.50+3.02	10.00 (3.00 - 12.10)	2700 (540 - 2890)	3.70	
25+35+35+50	1.48+2.05+2.05+2.93	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.84+2.32+2.32+3.51	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
25+35+35+60	1.38+1.92+1.92+3.29	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.74+2.21+2.21+3.85	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
25+35+42+42	1.49+2.07+2.48+2.48	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.88+2.38+2.87+2.87	10.00 (3.00 - 12.10)	2700 (540 - 2890)	3.70	
25+35+42+50	1.41+1.96+2.35+2.80	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.75+2.22+2.68+3.35	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
25+42+42+42	1.42+2.36+2.36+2.36	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	1.75+2.22+2.68+3.35	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
35+35+35+35	2.13+2.13+2.13+2.13	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	2.50+2.50+2.50+2.50	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
35+35+35+42	2.02+2.02+2.02+2.43	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	2.38+2.38+2.38+2.87	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
35+35+35+50	1.92+1.92+1.92+2.74	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	2.22+2.22+2.22+3.35	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	
35+35+42+42	1.93+1.93+2.32+2.32	8.50 (2.90 - 9.90)	2390 (550 - 3260)	3.56	2.22+2.22+2.22+3.35	10.00 (3.00 - 12.10)	2630 (540 - 2890)	3.80	

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



Indoor unit combinations

Standard multi-split

Multi-split

RAM - 90NPSE	COOLING MODE				HEATING MODE				
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
15 + 15 + 25 + 50 + 50	0.82 + 0.82 + 1.37 + 2.74 + 2.74	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	0.98 + 0.98 + 1.67 + 3.19 + 3.19	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 15 + 35 + 35 + 35	0.94 + 0.94 + 2.20 + 2.20 + 2.20	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18 + 1.18 + 2.54 + 2.54 + 2.54	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 15 + 35 + 35 + 42	0.90 + 0.90 + 2.10 + 2.10 + 2.51	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12 + 1.12 + 2.42 + 2.42 + 2.92	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 15 + 35 + 35 + 50	0.85 + 0.85 + 1.98 + 1.98 + 2.83	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.05 + 1.05 + 2.25 + 2.25 + 3.40	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 15 + 35 + 42 + 42	0.86 + 0.86 + 2.00 + 2.40 + 2.40	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.05 + 1.05 + 2.25 + 2.25 + 3.40	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 18 + 18	1.47 + 1.76 + 1.76 + 1.76 + 1.76	8.50 (2.90 - 9.90)	2530 (550 - 3260)	3.36	1.67 + 2.08 + 2.08 + 2.08 + 2.08	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 18 + 25	1.36 + 1.63 + 1.63 + 1.63 + 2.26	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.55 + 1.94 + 1.94 + 1.94 + 2.64	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 18 + 35	1.23 + 1.47 + 1.47 + 1.47 + 2.86	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.45 + 1.81 + 1.81 + 1.81 + 3.12	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 18 + 42	1.15 + 1.38 + 1.38 + 1.38 + 3.22	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.36 + 1.70 + 1.70 + 1.70 + 3.54	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 18 + 50	1.07 + 1.29 + 1.29 + 1.29 + 3.57	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.25 + 1.56 + 1.56 + 1.56 + 4.06	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 18 + 60	0.99 + 1.19 + 1.19 + 1.19 + 3.95	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18 + 1.47 + 1.47 + 1.47 + 4.41	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 25 + 25	1.26 + 1.51 + 1.51 + 2.10 + 2.10	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.45 + 1.81 + 1.81 + 2.46 + 2.46	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 25 + 35	1.15 + 1.38 + 1.38 + 1.91 + 2.68	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.36 + 1.70 + 1.70 + 2.31 + 2.93	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 25 + 42	1.08 + 1.30 + 1.30 + 1.80 + 3.03	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.28 + 1.60 + 1.60 + 2.18 + 3.33	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 25 + 50	1.01 + 1.21 + 1.21 + 1.69 + 3.37	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.18 + 1.48 + 1.48 + 2.01 + 3.85	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 25 + 60	0.94 + 1.13 + 1.13 + 1.56 + 3.75	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12 + 1.40 + 1.40 + 1.90 + 4.19	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 35 + 35	1.05 + 1.26 + 1.26 + 2.46 + 2.46	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.28 + 1.60 + 1.60 + 2.76 + 2.76	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 35 + 42	1.00 + 1.20 + 1.20 + 2.32 + 2.79	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.21 + 1.52 + 1.52 + 2.61 + 3.15	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 35 + 50	0.94 + 1.13 + 1.13 + 2.19 + 3.13	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12 + 1.40 + 1.40 + 2.42 + 3.65	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 35 + 60	0.87 + 1.05 + 1.05 + 2.04 + 3.49	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.06 + 1.33 + 1.33 + 2.29 + 3.99	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 42 + 42	0.94 + 1.13 + 1.13 + 2.64 + 2.64	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15 + 1.44 + 1.44 + 2.99 + 2.99	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 42 + 50	0.89 + 1.07 + 1.07 + 2.50 + 2.97	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.07 + 1.34 + 1.34 + 2.78 + 3.48	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 42 + 60	0.83 + 1.00 + 1.00 + 2.33 + 3.33	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.27 + 1.27 + 2.64 + 3.81	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 18 + 50 + 50	0.84 + 1.01 + 1.01 + 2.81 + 2.81	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.00 + 1.25 + 1.25 + 3.25 + 3.25	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 25 + 25	1.18 + 1.42 + 1.97 + 1.97 + 1.97	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.36 + 1.70 + 2.31 + 2.31 + 2.31	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 25 + 35	1.08 + 1.30 + 1.80 + 1.80 + 2.52	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.28 + 1.60 + 2.18 + 2.18 + 2.76	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 25 + 42	1.02 + 1.22 + 1.70 + 1.70 + 2.86	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.21 + 1.52 + 2.06 + 2.06 + 3.15	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 25 + 50	0.96 + 1.15 + 1.60 + 1.60 + 3.20	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.12 + 1.40 + 1.91 + 1.91 + 3.65	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 25 + 60	0.89 + 1.07 + 1.49 + 1.49 + 3.57	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.06 + 1.33 + 1.81 + 1.81 + 3.99	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 35 + 35	1.00 + 1.20 + 1.66 + 2.32 + 2.32	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.21 + 1.52 + 2.06 + 2.61 + 2.61	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 35 + 42	0.94 + 1.13 + 1.57 + 2.20 + 2.64	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15 + 1.44 + 1.95 + 2.47 + 2.99	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 35 + 50	0.89 + 1.07 + 1.49 + 2.08 + 2.97	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.07 + 1.34 + 1.82 + 2.30 + 3.48	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 35 + 60	0.83 + 1.00 + 1.39 + 1.94 + 3.33	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.27 + 1.73 + 2.18 + 3.81	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 42 + 42	0.90 + 1.08 + 1.50 + 2.51 + 2.51	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.09 + 1.37 + 1.86 + 2.84 + 2.84	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 25 + 42 + 50	0.85 + 1.02 + 1.42 + 2.38 + 2.83	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.28 + 1.73 + 2.65 + 3.32	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 35 + 35 + 35	0.92 + 1.11 + 2.16 + 2.16 + 2.16	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15 + 1.44 + 2.47 + 2.47 + 2.47	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 35 + 35 + 42	0.88 + 1.06 + 2.05 + 2.05 + 2.46	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.09 + 1.37 + 2.35 + 2.35 + 2.84	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 35 + 35 + 50	0.83 + 1.00 + 1.94 + 1.94 + 2.78	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.28 + 2.19 + 2.19 + 3.32	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 18 + 35 + 42 + 42	0.84 + 1.01 + 1.96 + 2.35 + 2.35	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.28 + 2.19 + 2.19 + 3.32	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 25 + 25	1.11 + 1.85 + 1.85 + 1.85 + 1.85	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.28 + 2.18 + 2.18 + 2.18 + 2.18	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 25 + 35	1.02 + 1.70 + 1.70 + 1.70 + 2.38	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.21 + 2.06 + 2.06 + 2.06 + 2.61	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 25 + 42	0.97 + 1.61 + 1.61 + 1.61 + 2.70	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15 + 1.95 + 1.95 + 1.95 + 2.99	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 25 + 50	0.91 + 1.52 + 1.52 + 1.52 + 3.04	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.07 + 1.82 + 1.82 + 1.82 + 3.48	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 25 + 60	0.85 + 1.42 + 1.42 + 1.42 + 3.40	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.73 + 1.73 + 1.73 + 3.81	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 35 + 35	0.94 + 1.57 + 1.57 + 2.20 + 2.20	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15 + 1.95 + 1.95 + 2.47 + 2.47	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 35 + 42	0.90 + 1.50 + 1.50 + 2.10 + 2.51	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.09 + 1.86 + 1.86 + 2.35 + 2.84	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 35 + 50	0.85 + 1.42 + 1.42 + 1.98 + 2.83	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.02 + 1.73 + 1.73 + 2.19 + 3.32	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 25 + 42 + 42	0.86 + 1.43 + 1.43 + 2.40 + 2.40	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.15 + 1.95 + 1.95 + 2.47 + 2.47	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 35 + 35 + 35	0.88 + 1.47 + 2.05 + 2.05 + 2.05	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.09 + 1.86 + 2.35 + 2.35 + 2.35	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 25 + 35 + 35 + 42	0.84 + 1.40 + 1.96 + 1.96 + 2.35	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.04 + 1.77 + 2.24 + 2.24 + 2.71	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
15 + 35 + 35 + 35 + 35	0.82 + 1.92 + 1.92 + 1.92 + 1.92	8.50 (2.90 - 9.90)	2690 (550 - 3260)	3.16	1.04 + 1.77 + 2.24 + 2.24 + 2.71	10.00 (3.40 - 11.50)	2460 (610 - 2952)	4.07	
18 + 18 + 18 + 18 + 18	1.70 + 1.70 + 1.70 + 1.70 + 1.70	8.50 (2.90 - 9.90)	2530 (600 - 3040)	3.36	2.00 + 2.00 + 2.00 + 2.00 + 2.00	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 18 + 25	1.58 + 1.58 + 1.58 + 1.58 + 2.19	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.87 + 1.87 + 1.87 + 1.87 + 2.54	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 18 + 35	1.43 + 1.43 + 1.43 + 1.43 + 2.78	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.75 + 1.75 + 1.75 + 1.75 + 3.01	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 18 + 42	1.34 + 1.34 + 1.34 + 1.34 + 3.13	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.64 + 1.64 + 1.64 + 1.64 + 3.42	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	

RAM - 90NPSE	COOLING MODE				HEATING MODE				
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
18 + 18 + 18 + 18 + 50	1.25 + 1.25 + 1.25 + 1.25 + 3.48	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.52 + 1.52 + 1.52 + 1.52 + 3.94	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 18 + 60	1.16 + 1.16 + 1.16 + 1.16 + 3.86	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.43 + 1.43 + 1.43 + 1.43 + 4.29	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 25 + 25	1.47 + 1.47 + 1.47 + 2.04 + 2.04	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.75 + 1.75 + 1.75 + 2.38 + 2.38	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 25 + 35	1.34 + 1.34 + 1.34 + 1.86 + 2.61	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.64 + 1.64 + 1.64 + 2.24 + 2.83	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 25 + 42	1.26 + 1.26 + 1.26 + 1.76 + 2.95	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.55 + 1.55 + 1.55 + 2.11 + 3.23	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 25 + 50	1.19 + 1.19 + 1.19 + 1.65 + 3.29	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.44 + 1.44 + 1.44 + 1.95 + 3.74	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 25 + 60	1.10 + 1.10 + 1.10 + 1.53 + 3.67	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.36 + 1.36 + 1.36 + 1.85 + 4.08	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 35 + 35	1.23 + 1.23 + 1.23 + 2.40 + 2.40	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.55 + 1.55 + 1.55 + 2.67 + 2.67	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 35 + 42	1.17 + 1.17 + 1.17 + 2.27 + 2.73	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.47 + 1.47 + 1.47 + 2.53 + 3.06	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 35 + 50	1.10 + 1.10 + 1.10 + 2.14 + 3.06	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.37 + 1.37 + 1.37 + 2.35 + 3.55	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 35 + 60	1.03 + 1.03 + 1.03 + 2.00 + 3.42	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.37 + 1.37 + 1.37 + 2.35 + 3.55	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 42 + 42	1.11 + 1.11 + 1.11 + 2.59 + 2.59	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.40 + 1.40 + 1.40 + 2.91 + 2.91	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 42 + 50	1.05 + 1.05 + 1.05 + 2.45 + 2.91	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.30 + 1.30 + 1.30 + 2.71 + 3.39	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 18 + 50 + 50	0.99 + 0.99 + 0.99 + 2.76 + 2.76	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.30 + 1.30 + 1.30 + 2.71 + 3.39	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 25 + 25	1.38 + 1.38 + 1.91 + 1.91 + 1.91	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.64 + 1.64 + 2.24 + 2.24 + 2.24	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 25 + 35	1.26 + 1.26 + 1.76 + 1.76 + 2.46	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.55 + 1.55 + 2.11 + 2.11 + 2.67	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 25 + 42	1.20 + 1.20 + 1.66 + 1.66 + 2.79	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.47 + 1.47 + 2.00 + 2.00 + 3.06	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 25 + 50	1.13 + 1.13 + 1.56 + 1.56 + 3.13	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.37 + 1.37 + 1.86 + 1.86 + 3.55	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 25 + 60	1.05 + 1.05 + 1.46 + 1.46 + 3.49	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.30 + 1.30 + 1.76 + 1.76 + 3.89	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 35 + 35	1.17 + 1.17 + 1.62 + 2.27 + 2.27	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.47 + 1.47 + 2.00 + 2.53 + 2.53	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 35 + 42	1.11 + 1.11 + 1.54 + 2.16 + 2.59	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.40 + 1.40 + 1.90 + 2.40 + 2.91	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 35 + 50	1.05 + 1.05 + 1.46 + 2.04 + 2.91	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.30 + 1.30 + 1.77 + 2.24 + 3.39	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 42 + 42	1.06 + 1.06 + 1.47 + 2.46 + 2.46	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.33 + 1.33 + 1.81 + 2.77 + 2.77	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 25 + 42 + 50	1.00 + 1.00 + 1.39 + 2.33 + 2.78	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.33 + 1.33 + 1.81 + 2.77 + 2.77	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 35 + 35 + 35	1.09 + 1.09 + 2.11 + 2.11 + 2.11	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.40 + 1.40 + 2.40 + 2.40 + 2.40	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 35 + 35 + 42	1.03 + 1.03 + 2.01 + 2.01 + 2.41	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.33 + 1.33 + 2.29 + 2.29 + 2.77	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 18 + 35 + 42 + 42	0.99 + 0.99 + 1.92 + 2.30 + 2.30	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.33 + 1.33 + 2.29 + 2.29 + 2.77	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 25 + 25	1.30 + 1.80 + 1.80 + 1.80 + 1.80	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.55 + 2.11 + 2.11 + 2.11 + 2.11	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 25 + 35	1.20 + 1.66 + 1.66 + 1.66 + 2.32	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.47 + 2.00 + 2.00 + 2.00 + 2.53	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 25 + 42	1.13 + 1.57 + 1.57 + 1.57 + 2.64	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.40 + 1.90 + 1.90 + 1.90 + 2.91	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 25 + 50	1.07 + 1.49 + 1.49 + 1.49 + 2.97	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	6.00 + 0.82 + 0.82 + 0.82 + 1.56	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 25 + 60	1.00 + 1.39 + 1.39 + 1.39 + 3.33	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.24 + 1.68 + 1.68 + 1.68 + 3.71	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 35 + 35	1.11 + 1.54 + 1.54 + 2.16 + 2.16	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.40 + 1.90 + 1.90 + 2.40 + 2.40	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 35 + 42	1.06 + 1.47 + 1.47 + 2.05 + 2.46	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.33 + 1.81 + 1.81 + 2.29 + 2.77	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 35 + 50	1.00 + 1.39 + 1.39 + 1.94 + 2.78	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.24 + 1.69 + 1.69 + 2.14 + 3.23	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 25 + 42 + 42	1.01 + 1.40 + 1.40 + 2.35 + 2.35	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.27 + 1.73 + 1.73 + 2.64 + 2.64	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 35 + 35 + 35	1.03 + 1.44 + 2.01 + 2.01 + 2.01	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.33 + 1.81 + 2.29 + 2.29 + 2.29	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
18 + 25 + 35 + 35 + 42	0.99 + 1.37 + 1.92 + 1.92 + 2.30	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.27 + 1.73 + 2.18 + 2.18 + 2.64	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 25 + 25 + 25	1.70 + 1.70 + 1.70 + 1.70 + 1.70	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	2.00 + 2.00 + 2.00 + 2.00 + 2.00	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 25 + 25 + 35	1.57 + 1.57 + 1.57 + 1.57 + 2.20	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.90 + 1.90 + 1.90 + 1.90 + 2.40	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 25 + 25 + 42	1.50 + 1.50 + 1.50 + 1.50 + 2.51	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.81 + 1.81 + 1.81 + 1.81 + 2.77	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 25 + 25 + 50	1.42 + 1.42 + 1.42 + 1.42 + 2.83	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.69 + 1.69 + 1.69 + 1.69 + 3.23	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 25 + 35 + 35	1.47 + 1.47 + 1.47 + 2.05 + 2.05	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.81 + 1.81 + 1.81 + 2.29 + 2.29	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 25 + 35 + 42	1.40 + 1.40 + 1.40 + 1.96 + 2.35	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.73 + 1.73 + 1.73 + 2.18 + 2.64	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	
25 + 25 + 35 + 35 + 35	1.37 + 1.37 + 1.92 + 1.92 + 1.92	8.50 (2.90 - 9.90)	2690 (600 - 3040)	3.16	1.73 + 1.73 + 2.18 + 2.18 + 2.18	10.00 (3.40 - 12.10)	2460 (610 - 2710)	4.07	



Indoor unit combinations

Standard multi-split

Multi-split

RAM-110NP5E	COOLING MODE					HEATING MODE			
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
15+15+18+25+35	1.39+1.39+1.67+2.31+3.24	10.00 (2.90 - 10.80)	2690 (550 - 3460)	3.72	1.69+1.69+2.11+2.87+3.63	12.00 (3.40 - 12.70)	3030 (610 - 4000)	3.96	
15+15+18+25+42	1.30+1.30+1.57+2.17+3.65	10.00 (2.90 - 11.10)	3000 (550 - 3660)	3.33	1.59+1.59+1.99+2.70+4.13	12.00 (3.40 - 12.70)	3030 (610 - 4000)	3.96	
15+15+18+25+50	1.22+1.22+1.46+2.03+4.07	10.00 (2.90 - 11.60)	3380 (550 - 4000)	2.96	1.46+1.46+1.83+2.49+4.76	12.00 (3.40 - 12.70)	3650 (610 - 4000)	3.29	
15+15+18+25+60	1.13+1.13+1.35+1.88+4.51	10.00 (2.90 - 12.10)	3380 (550 - 4000)	2.96	1.38+1.38+1.72+2.34+5.17	12.00 (3.40 - 12.70)	3650 (610 - 4000)	3.29	
15+15+18+35+35	1.27+1.27+1.53+2.97+2.97	10.00 (2.90 - 12.50)	3380 (550 - 4000)	2.96	1.59+1.59+1.99+3.42+3.42	12.00 (3.40 - 12.70)	3190 (610 - 4000)	3.76	
15+15+18+35+42	1.20+1.20+1.44+2.80+3.36	10.00 (2.90 - 12.50)	3380 (550 - 4000)	2.96	1.50+1.50+1.88+3.23+3.90	12.00 (3.40 - 12.70)	3290 (610 - 4000)	3.65	
15+15+18+35+50	1.13+1.13+1.35+2.63+3.76	10.00 (2.90 - 12.50)	3820 (550 - 4500)	2.62	1.39+1.39+1.73+2.98+4.51	12.00 (3.40 - 12.70)	3780 (610 - 4500)	3.17	
15+15+18+35+60	1.05+1.05+1.26+2.45+4.20	10.00 (2.90 - 12.50)	3820 (550 - 4500)	2.62	1.31+1.31+1.64+2.82+4.92	12.00 (3.40 - 12.70)	3780 (610 - 4500)	3.17	
15+15+18+42+42	1.14+1.14+1.36+3.18+3.18	10.00 (2.90 - 11.60)	3820 (550 - 4500)	2.62	1.42+1.42+1.78+3.69+3.69	12.00 (3.40 - 12.70)	3780 (610 - 4500)	3.17	
15+15+18+42+50	1.07+1.07+1.29+3.00+3.57	10.00 (2.90 - 12.10)	4000 (550 - 4500)	2.50	1.32+1.32+1.65+3.43+4.29	12.00 (3.40 - 12.70)	3780 (610 - 4500)	3.17	
15+15+18+42+60	1.00+1.00+1.20+2.80+4.00	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.25+1.25+1.56+3.25+4.69	12.00 (3.40 - 12.70)	3780 (610 - 4500)	3.17	
15+15+18+50+50	1.01+1.01+1.22+3.38+3.38	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.23+1.23+1.54+4.00+4.00	12.00 (3.40 - 12.70)	3890 (610 - 4500)	3.08	
15+15+18+50+60	0.95+0.95+1.14+3.16+3.80	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.17+1.17+1.46+3.80+4.39	12.00 (3.40 - 12.70)	3890 (610 - 4500)	3.08	
15+15+25+25+25	1.43+1.43+2.38+2.38+2.38	10.00 (2.90 - 11.05)	2690 (550 - 3460)	3.72	1.69+1.69+2.87+2.87+2.87	12.00 (3.40 - 12.70)	2890 (610 - 4000)	4.15	
15+15+25+25+35	1.30+1.30+2.17+2.17+3.04	10.00 (2.90 - 11.50)	3000 (550 - 3460)	3.33	1.59+1.59+2.70+2.70+3.42	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
15+15+25+25+42	1.23+1.23+2.05+2.05+3.44	10.00 (2.90 - 11.80)	3280 (550 - 3800)	3.05	1.50+1.50+2.55+2.55+3.90	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
15+15+25+25+50	1.15+1.15+1.92+1.92+3.85	10.00 (2.90 - 12.10)	3480 (550 - 4000)	2.87	1.39+1.39+2.36+2.36+4.51	12.00 (3.40 - 12.70)	3780 (610 - 4000)	3.17	
15+15+25+25+60	1.07+1.07+1.79+1.79+4.29	10.00 (2.90 - 12.50)	3480 (550 - 4000)	2.87	1.31+1.31+2.23+2.23+4.92	12.00 (3.40 - 12.70)	3780 (610 - 4000)	3.17	
15+15+25+35+35	1.20+1.20+2.00+2.80+2.80	10.00 (2.90 - 12.00)	3280 (550 - 3800)	3.05	1.50+1.50+2.55+3.23+3.23	12.00 (3.40 - 12.70)	3250 (610 - 4000)	3.69	
15+15+25+35+42	1.14+1.14+1.89+2.65+3.18	10.00 (2.90 - 12.50)	3480 (550 - 4000)	2.87	1.42+1.42+2.41+3.05+3.69	12.00 (3.40 - 12.70)	3350 (610 - 4000)	3.58	
15+15+25+35+50	1.07+1.07+1.79+2.50+3.57	10.00 (2.90 - 12.50)	3620 (550 - 4000)	2.76	1.32+1.32+2.24+2.84+4.29	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+15+25+35+60	1.00+1.00+1.67+2.33+4.00	10.00 (2.90 - 12.50)	3620 (550 - 4000)	2.76	1.25+1.25+2.13+2.69+4.69	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+15+25+42+42	1.08+1.08+1.80+3.02+3.02	10.00 (2.90 - 12.50)	3620 (550 - 4000)	2.76	1.35+1.35+2.29+3.51+3.51	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+15+25+42+50	1.02+1.02+1.70+2.86+3.40	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.26+1.26+2.14+3.27+4.08	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+15+25+50+50	0.97+0.97+1.61+3.23+3.23	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.18+1.18+2.00+3.82+3.82	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+15+25+50+60	0.91+0.91+1.52+3.03+3.64	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.12+1.12+1.91+3.64+4.21	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+15+35+35+35	1.11+1.11+2.59+2.59+2.59	10.00 (2.90 - 12.50)	3620 (550 - 4000)	2.76	1.42+1.42+3.05+3.05+3.05	12.00 (3.40 - 12.70)	3360 (610 - 4000)	3.57	
15+15+35+35+42	1.05+1.05+2.46+2.46+2.96	10.00 (2.90 - 12.50)	3620 (550 - 4000)	2.76	1.35+1.35+2.90+2.90+3.51	12.00 (3.40 - 12.70)	3360 (610 - 4000)	3.57	
15+15+35+35+50	1.00+1.00+2.33+2.33+3.33	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.26+1.26+2.70+2.70+4.08	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+15+35+35+60	0.94+0.94+2.19+2.19+3.75	10.00 (2.90 - 12.50)	4000 (550 - 3460)	2.50	1.19+1.19+2.57+2.57+4.48	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+18+18+18	1.50+1.80+1.80+1.80+1.80	8.70 (2.90 - 9.60)	2530 (550 - 3460)	3.44	2.00+2.50+2.50+2.50+2.50	12.00 (3.40 - 12.70)	2630 (610 - 4000)	4.56	
15+18+18+18+25	1.50+1.80+1.80+1.80+2.50	9.40 (2.90 - 10.10)	2690 (550 - 3460)	3.49	1.86+2.33+2.33+2.33+3.16	12.00 (3.40 - 12.70)	2730 (610 - 4000)	4.40	
15+18+18+18+35	1.44+1.73+1.73+1.73+3.37	10.00 (2.90 - 10.60)	2690 (550 - 3460)	3.72	1.74+2.17+2.17+2.17+3.74	12.00 (3.40 - 12.70)	2830 (610 - 4000)	4.24	
15+18+18+18+42	1.35+1.62+1.62+1.62+3.78	10.00 (2.90 - 10.90)	3000 (550 - 3460)	3.33	1.63+2.04+2.04+2.04+4.24	12.00 (3.40 - 12.70)	3030 (610 - 4000)	3.96	
15+18+18+18+50	1.26+1.51+1.51+1.51+4.20	10.00 (2.90 - 11.40)	3260 (550 - 3460)	3.07	1.50+1.88+1.88+1.88+4.88	12.00 (3.40 - 12.70)	3690 (610 - 4000)	3.25	
15+18+18+18+60	1.16+1.40+1.40+1.40+4.65	10.00 (2.90 - 12.00)	3260 (550 - 3460)	3.07	1.41+1.76+1.76+1.76+5.29	12.00 (3.40 - 12.70)	3690 (610 - 4000)	3.25	
15+18+18+25+25	1.49+1.78+1.78+2.48+2.48	10.00 (2.90 - 10.60)	2690 (550 - 3460)	3.72	1.74+2.17+2.17+2.96+2.96	12.00 (3.40 - 12.70)	2890 (610 - 4000)	4.15	
15+18+18+25+35	1.35+1.62+1.62+2.25+3.15	10.00 (2.90 - 11.08)	2690 (550 - 3460)	3.72	1.63+2.04+2.04+2.78+3.51	12.00 (3.40 - 12.70)	2980 (610 - 4000)	4.03	
15+18+18+25+42	1.27+1.53+1.53+2.12+3.56	10.00 (2.90 - 11.40)	3260 (550 - 3800)	3.07	1.54+1.92+1.92+2.62+4.00	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
15+18+18+25+50	1.19+1.43+1.43+1.98+3.97	10.00 (2.90 - 11.70)	3260 (550 - 3800)	3.07	1.42+1.78+1.78+2.41+4.62	12.00 (3.40 - 12.70)	3790 (610 - 4500)	3.17	
15+18+18+25+60	1.10+1.32+1.32+1.84+4.41	10.00 (2.90 - 12.20)	3550 (550 - 4000)	2.82	1.34+1.68+1.68+2.28+5.03	12.00 (3.40 - 12.70)	3790 (610 - 4500)	3.17	
15+18+18+35+35	1.24+1.49+1.49+2.89+2.89	10.00 (2.90 - 12.50)	3260 (550 - 4000)	3.07	1.54+1.92+1.92+3.31+3.31	12.00 (3.40 - 12.70)	3030 (610 - 4000)	3.96	
15+18+18+35+42	1.17+1.41+1.41+2.73+3.28	10.00 (2.90 - 12.50)	3550 (550 - 4000)	2.82	1.45+1.82+1.82+3.13+3.78	12.00 (3.40 - 12.70)	3250 (610 - 4000)	3.69	
15+18+18+35+50	1.10+1.32+1.32+2.57+3.68	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.35+1.69+1.69+2.9+4.38	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+18+35+60	1.03+1.28+1.28+2.40+4.11	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.28+1.60+1.60+2.74+4.79	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+18+42+42	1.11+1.33+1.33+3.11+3.11	10.00 (2.90 - 12.50)	3680 (550 - 4500)	2.72	1.38+1.72+1.72+3.59+3.59	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+18+42+50	1.05+1.26+1.26+2.94+3.50	10.00 (2.90 - 12.50)	3680 (550 - 4500)	2.72	1.28+1.60+1.60+3.34+4.17	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+18+42+60	0.98+1.18+1.18+2.75+3.92	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.22+1.52+1.52+3.17+4.57	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+18+50+50	0.99+1.19+1.19+3.31+3.31	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.20+1.50+1.50+3.90+3.90	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+18+18+50+60	0.93+1.12+1.12+3.11+3.73	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.14+1.43+1.43+3.71+4.29	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+18+25+25+25	1.39+1.67+2.31+2.31+2.31	10.00 (2.90 - 11.11)	3000 (550 - 3460)	3.33	1.63+2.04+2.78+2.78+2.78	12.00 (3.40 - 12.70)	2980 (610 - 4000)	4.03	
15+18+25+25+35	1.27+1.53+2.12+2.12+2.97	10.00 (2.90 - 12.50)	3000 (550 - 3460)	3.33	1.54+1.92+2.62+2.62+3.31	12.00 (3.40 - 12.70)	3030 (610 - 4000)	3.96	
15+18+25+25+42	1.20+1.44+2.00+2.00+3.36	10.00 (2.90 - 12.50)	3260 (550 - 3800)	3.07	1.45+1.82+2.47+2.47+3.78	12.00 (3.40 - 12.70)	3250 (610 - 4000)	3.69	
15+18+25+25+50	1.13+1.35+1.88+1.88+3.76	10.00 (2.90 - 12.50)	3680 (550 - 4000)	2.72	1.35+1.69+2.29+2.29+4.38	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+25+25+60	1.05+1.26+1.75+1.75+4.20	10.00 (2.90 - 12.50)	3680 (550 - 4000)	2.72	1.28+1.60+2.17+2.17+4.79	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
15+18+25+35+35	1.17+1.41+1.95+2.73+2.73	10.00 (2.90 - 12.50)	3680 (550 - 4000)	2.72	1.45+1.82+2.47+3.13+3.13	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
15+18+25+35+42	1.11+1.33+1.85+2.59+3.11	10.00 (2.90 - 12.50)	3680 (550 - 4000)	2.72	1.38+1.72+2.34+2.97+3.59	12.00 (3.40 - 12.70)	3290 (610 - 4000)	3.65	
15+18+25+35+50	1.05+1.26+1.75+2.45+3.50	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.28+1.60+2.18+2.76+4.17	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+18+25+35+60	0.98+1.18+1.63+2.29+3.92	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.22+1.52+2.07+2.62+4.57	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+18+25+42+42	1.06+1.27+1.76+2.96+2.96	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.31+1.64+2.23+3.41+3.41	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+18+25+42+50	1.00+1.20+1.67+2.80+3.33	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.22+1.53+2.08+3.18+3.98	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
15+18+25+42+60	0.94+1.13+1.56+2.63+3.75	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.17+1.46+1.98+3.03+4.37	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
15+18+35+35+35	1.09+1.30+2.54+2.54+2.54	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.38+1.72+2.97+2.97+2.97	12.00 (3.40 - 12.70)	3280 (610 - 4000)	3.66	
15+18+35+35+42	1.03+1.24+2.41+2.41+2.90	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.31+1.64+2.82+2.82+3.41	12.00 (3.40 - 12.70)	3390 (610 - 4000)	3.54	
15+18+35+35+50	0.98+1.18+2.29+2.29+3.27	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.22+1.53+2.63+2.63+3.98	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
15+25+25+25+25	1.30+2.17+2.17+2.17+2.17	10.00 (2.90 - 12.50)	3000 (550 - 3460)	3.33	1.54+2.62+2.62+2.62+2.62	1			

RAM-110NP5E	COOLING MODE					HEATING MODE			
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
15+25+25+35+42	1.06+1.76+1.76+2.46+2.96	10.00 (2.90 - 12.50)	3680 (550 - 4000)	2.72	1.31+2.23+2.23+2.82+3.41	12.00 (3.40 - 12.70)	3390 (610 - 4000)	3.54	
15+25+25+35+50	1.00+1.67+1.67+2.33+3.33	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.22+2.08+2.08+2.63+3.98	12.00 (3.40 - 12.70)	4100 (610 - 4000)	2.93	
15+25+25+35+60	0.94+1.56+1.56+2.19+3.75	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.17+1.98+1.98+2.50+4.37	12.00 (3.40 - 12.70)	4100 (610 - 4000)	2.93	
15+25+25+42+42	1.01+1.68+1.68+2.82+2.82	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.25+2.13+2.13+3.25+3.25	12.00 (3.40 - 12.70)	4000 (610 - 4000)	3.00	
15+25+25+42+50	0.96+1.59+1.59+2.68+3.18	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.17+1.99+1.99+3.04+3.80	12.00 (3.40 - 12.70)	4200 (610 - 4000)	2.86	
15+25+25+50+50	0.91+1.52+1.52+3.03+3.03	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.10+1.87+1.87+3.58+3.58	12.00 (3.40 - 12.70)	4200 (610 - 4000)	2.86	
15+25+35+35+35	1.03+1.72+2.41+2.41+2.41	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.31+2.23+2.82+2.82+2.82	12.00 (3.40 - 12.70)	3390 (610 - 4000)	3.54	
15+25+35+35+42	0.99+1.64+2.30+2.30+2.76	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.25+2.13+2.69+2.69+3.25	12.00 (3.40 - 12.70)	3490 (610 - 4000)	3.44	
15+25+35+35+50	0.94+1.73+2.19+2.19+3.13	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.17+1.99+2.52+2.52+3.80	12.00 (3.40 - 12.70)	4200 (610 - 4000)	2.86	
15+25+35+42+42	0.94+1.57+2.20+2.64+2.64	10.00 (2.90 - 12.50)	4000 (550 - 4500)	2.50	1.19+2.03+2.57+3.10+3.10	12.00 (3.40 - 12.70)	4200 (610 - 4000)	2.86	
18+18+18+18+18	1.80+1.80+1.80+1.80+1.80	9.00 (2.90 - 10.00)	2530 (600 - 3040)	3.56	2.40+2.40+2.40+2.40+2.40	12.00 (3.40 - 12.70)	2780 (610 - 4000)	4.32	
18+18+18+18+25	1.80+1.80+1.80+1.80+2.50	9.70 (2.90 - 10.80)	2690 (600 - 3040)	3.61	2.24+2.24+2.24+2.24+3.04	12.00 (3.40 - 12.70)	2890 (610 - 4000)	4.15	
18+18+18+18+35	1.68+1.68+1.68+1.68+3.27	10.00 (2.90 - 11.12)	2690 (600 - 3040)	3.72	2.10+2.10+2.10+2.10+3.61	12.00 (3.40 - 12.70)	2980 (610 - 4000)	4.03	
18+18+18+18+42	1.58+1.58+1.58+1.58+3.68	10.00 (2.90 - 11.50)	3000 (600 - 3600)	3.33	1.97+1.97+1.97+1.97+4.11	12.00 (3.40 - 12.70)	3230 (610 - 4000)	3.72	
18+18+18+18+50	1.48+1.48+1.48+1.48+4.10	10.00 (2.90 - 11.90)	3260 (600 - 3600)	3.07	1.82+1.82+1.82+1.82+4.73	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
18+18+18+18+60	1.36+1.36+1.36+1.36+4.55	10.00 (2.90 - 12.40)	3260 (600 - 3600)	3.07	1.71+1.71+1.71+1.71+5.14	12.00 (3.40 - 12.70)	3890 (610 - 5000)	3.08	
18+18+18+25+25	1.73+1.73+1.73+2.40+2.40	10.00 (2.90 - 11.15)	2690 (600 - 3040)	3.72	2.10+2.10+2.10+2.85+2.85	12.00 (3.40 - 12.70)	2890 (610 - 4000)	4.15	
18+18+18+25+35	1.58+1.58+1.58+2.19+3.07	10.00 (2.90 - 11.60)	3000 (600 - 3600)	3.33	1.97+1.97+1.97+2.68+3.39	12.00 (3.40 - 12.70)	2980 (610 - 4000)	4.03	
18+18+18+25+42	1.49+1.49+1.49+2.07+3.47	10.00 (2.90 - 11.90)	3260 (600 - 3600)	3.07	1.86+1.86+1.86+2.53+3.88	12.00 (3.40 - 12.70)	3360 (610 - 4000)	3.57	
18+18+18+25+50	1.40+1.40+1.40+1.94+3.88	10.00 (2.90 - 12.30)	3260 (600 - 3600)	3.07	1.72+1.72+1.72+2.34+4.48	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
18+18+18+25+60	1.29+1.29+1.29+1.80+4.32	10.00 (2.90 - 12.50)	3680 (600 - 3600)	2.72	1.63+1.63+1.63+2.22+4.89	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
18+18+18+35+35	1.45+1.45+1.45+2.82+2.82	10.00 (2.90 - 12.50)	3260 (600 - 3600)	3.07	1.86+1.86+1.86+3.20+3.20	12.00 (3.40 - 12.70)	2980 (610 - 4000)	4.03	
18+18+18+35+42	1.37+1.37+1.37+2.67+3.21	10.00 (2.90 - 12.50)	3680 (600 - 4000)	2.72	1.76+1.76+1.76+3.04+3.67	12.00 (3.40 - 12.70)	3480 (610 - 4000)	3.45	
18+18+18+35+50	1.29+1.29+1.29+2.52+3.60	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.64+1.64+1.64+2.82+4.26	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
18+18+18+35+60	1.21+1.21+1.21+2.35+4.03	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.55+1.55+1.55+2.67+4.66	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
18+18+18+42+42	1.30+1.30+1.30+3.04+3.04	10.00 (2.90 - 12.50)	3680 (600 - 4000)	2.72	1.68+1.68+1.68+3.49+3.49	12.00 (3.40 - 12.70)	3680 (610 - 5000)	3.26	
18+18+18+42+50	1.23+1.23+1.23+2.88+3.42	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.56+1.56+1.56+3.25+4.06	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+18+18+42+60	1.15+1.15+1.15+2.69+3.85	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.49+1.49+1.49+3.09+4.46	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+18+18+50+50	1.17+1.17+1.17+3.25+3.25	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.46+1.46+1.46+3.80+3.80	12.00 (3.40 - 12.70)	4400 (610 - 5000)	2.73	
18+18+18+50+60	1.10+1.10+1.10+3.05+3.66	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.40+1.40+1.40+3.63+4.19	12.00 (3.40 - 12.70)	4400 (610 - 5000)	2.73	
18+18+25+25+25	1.62+1.62+2.25+2.25+2.25	10.00 (2.90 - 11.17)	3000 (600 - 3600)	3.33	1.97+1.97+2.68+2.68+2.68	12.00 (3.40 - 12.70)	2980 (610 - 4000)	4.03	
18+18+25+25+35	1.49+1.49+2.07+2.07+2.89	10.00 (2.90 - 12.50)	3000 (600 - 3600)	3.33	1.86+1.86+2.53+2.53+3.20	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
18+18+25+25+42	1.41+1.41+1.95+1.95+3.28	10.00 (2.90 - 12.50)	3260 (600 - 3600)	3.07	1.76+1.76+2.40+2.40+3.67	12.00 (3.40 - 12.70)	3450 (610 - 4000)	3.48	
18+18+25+25+50	1.32+1.32+1.84+1.84+3.68	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.64+1.64+2.23+2.23+4.26	12.00 (3.40 - 12.70)	4100 (610 - 5000)	2.93	
18+18+25+25+60	1.23+1.23+1.71+1.71+4.11	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.55+1.55+2.11+2.11+4.66	12.00 (3.40 - 12.70)	4100 (610 - 5000)	2.93	
18+18+25+35+35	1.37+1.37+1.91+2.67+2.67	10.00 (2.90 - 12.50)	3680 (600 - 4000)	2.72	1.76+1.76+2.40+3.04+3.04	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
18+18+25+35+42	1.30+1.30+1.81+2.54+3.04	10.00 (2.90 - 12.50)	3680 (600 - 4000)	2.72	1.68+1.68+2.28+2.88+3.49	12.00 (3.40 - 12.70)	3580 (610 - 4000)	3.35	
18+18+25+35+50	1.23+1.23+1.71+2.40+3.42	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.56+1.56+2.13+2.69+4.06	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+18+25+35+60	1.15+1.15+1.60+2.24+3.85	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.49+1.49+2.02+2.55+4.46	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+18+25+42+42	1.24+1.24+1.72+2.90+2.90	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.60+1.60+2.17+3.32+3.32	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+18+25+42+50	1.18+1.18+1.63+2.75+3.27	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.49+1.49+2.03+3.10+3.88	12.00 (3.40 - 12.70)	4400 (610 - 5000)	2.73	
18+18+25+42+60	1.10+1.10+1.53+2.58+3.68	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.42+1.42+1.93+2.96+4.27	12.00 (3.40 - 12.70)	4400 (610 - 5000)	2.73	
18+18+25+50+50	1.12+1.12+1.55+3.11+3.11	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.40+1.40+1.91+3.64+3.64	12.00 (3.40 - 12.70)	4500 (610 - 5000)	2.67	
18+18+35+35+35	1.28+1.28+2.48+2.48+2.48	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.68+1.68+2.88+2.88+2.88	12.00 (3.40 - 12.70)	3280 (610 - 4000)	3.66	
18+18+35+35+42	1.22+1.22+2.36+2.36+2.84	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.60+1.60+2.74+2.74+3.32	12.00 (3.40 - 12.70)	3580 (610 - 4000)	3.35	
18+18+35+35+50	1.15+1.15+2.24+2.24+3.21	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.49+1.49+2.57+2.57+3.88	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
18+18+35+35+60	1.08+1.08+2.11+2.11+3.61	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.42+1.42+2.45+2.45+4.27	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
18+18+35+42+42	1.16+1.16+2.26+2.71+2.71	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.52+1.52+2.62+3.17+3.17	12.00 (3.40 - 12.70)	4200 (610 - 5000)	2.86	
18+18+35+42+50	1.10+1.10+2.15+2.58+3.07	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.43+1.43+2.46+2.97+3.71	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+25+25+25+25	1.53+2.12+2.12+2.12+2.12	10.00 (2.90 - 12.50)	3000 (600 - 3600)	3.33	1.86+2.53+2.53+2.53+2.53	12.00 (3.40 - 12.70)	3130 (610 - 4000)	3.83	
18+25+25+25+35	1.41+1.95+1.95+1.95+2.73	10.00 (2.90 - 12.50)	3000 (600 - 3600)	3.33	1.76+2.40+2.40+2.40+3.04	12.00 (3.40 - 12.70)	3300 (610 - 4000)	3.64	
18+25+25+25+42	1.33+1.85+1.85+1.85+3.11	10.00 (2.90 - 12.50)	3260 (600 - 3600)	3.07	1.68+2.28+2.28+2.28+3.49	12.00 (3.40 - 12.70)	3580 (610 - 4000)	3.35	
18+25+25+25+50	1.26+1.75+1.75+1.75+3.50	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.56+2.13+2.13+2.13+4.06	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+25+25+25+60	1.18+1.63+1.63+1.63+3.92	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.49+2.02+2.02+2.02+4.46	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+25+25+35+35	1.30+1.81+1.81+2.54+2.54	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.68+2.28+2.28+2.88+2.88	12.00 (3.40 - 12.70)	3300 (610 - 4000)	3.64	
18+25+25+35+42	1.24+1.72+1.72+2.41+2.90	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.60+2.17+2.17+2.74+3.32	12.00 (3.40 - 12.70)	3690 (610 - 4000)	3.25	
18+25+25+35+50	1.18+1.63+1.63+2.29+3.27	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.49+2.03+2.03+2.57+3.88	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+25+25+35+60	1.10+1.53+1.53+2.15+3.68	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.42+1.93+1.93+2.45+4.27	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+25+25+42+42	1.18+1.64+1.64+2.76+2.76	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.52+2.07+2.07+3.17+3.17	12.00 (3.40 - 12.70)	4300 (610 - 5000)	2.79	
18+25+25+42+50	1.13+1.56+1.56+2.63+3.13	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.43+1.94+1.94+2.97+3.71	12.00 (3.40 - 12.70)	4500 (610 - 5000)	2.67	
18+25+35+35+35	1.22+1.69+2.36+2.36+2.36	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.60+2.17+2.74+2.74+2.74	12.00 (3.40 - 12.70)	4000 (610 - 5000)	3.00	
18+25+35+35+42	1.16+1.61+2.26+2.26+2.71	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.52+2.07+2.62+2.62+3.17	12.00 (3.40 - 12.70)	4100 (610 - 5000)	2.93	
18+25+35+35+50	1.10+1.53+2.15+2.15+3.07	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.43+1.94+2.46+2.46+3.71	12.00 (3.40 - 12.70)	4500 (610 - 5000)	2.67	
18+25+35+42+42	1.11+1.54+2.16+2.59+2.59	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	1.46+1.98+2.50+3.03+3.03	12.00 (3.40 - 12.70)	4500 (610 - 5000)	2.67	
25+25+25+25+25	2.00+2.00+2.00+2.00+2.00	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	2.40+2.40+2.40+2.40+2.40	12.00 (3.40 - 12.70)	3300 (610 - 4000)	3.64	
25+25+25+25+35	1.85+1.85+1.85+1.85+2.59	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	2.28+2.28+2.28+2.28+2.88	12.00 (3.40 - 12.70)	3580 (610 - 4000)	3.35	
25+25+25+25+42	1.76+1.76+1.76+1.76+2.96	10.00 (2.90 - 12.50)	4000 (600 - 4500)	2.50	2.17+2.17+2.17+2.1				

Indoor unit combinations

Summit multi-split units

	RAM - 40Ne2F	COOLING MODE				HEATING MODE			
		Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP
1 unit*	15	1.50	1.50 (1.00 - 2.20)	380 (200 - 480)	3.95	2.00	2.00 (1.10 - 3.20)	530 (250 - 970)	3.77
	18	1.80	1.80 (1.00 - 2.50)	455 (200 - 750)	3.96	2.50	2.50 (1.10 - 3.20)	690 (250 - 970)	3.62
	25	2.50	2.50 (1.00 - 3.10)	650 (200 - 880)	3.85	3.50	3.50 (1.10 - 4.40)	990 (250 - 1120)	3.54
	35	3.50	3.50 (1.00 - 4.00)	780 (200 - 1150)	4.49	4.80	4.80 (1.10 - 5.00)	1200 (250 - 1300)	4.00
2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 2.80)	700 (200 - 780)	4.29	2.00 + 2.00	4.00 (1.50 - 4.60)	890 (250 - 950)	4.49
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	700 (200 - 930)	4.52	2.00 + 2.50	4.50 (1.50 - 5.00)	940 (250 - 1020)	4.79
	15 + 25	1.50 + 2.50	4.00 (1.50 - 4.00)	950 (200 - 1150)	4.21	1.89 + 3.31	5.20 (1.50 - 5.50)	1080 (250 - 1500)	4.81
	15 + 35	1.20 + 2.80	4.00 (1.50 - 4.20)	1100 (200 - 1150)	3.64	1.53 + 3.67	5.20 (1.50 - 5.50)	1230 (250 - 1500)	4.23
	18 + 18	1.80 + 1.80	3.60 (1.50 - 4.00)	1050 (200 - 1050)	3.43	2.50 + 2.50	5.00 (1.50 - 5.00)	1250 (250 - 1500)	4.00
	18 + 25	1.67 + 2.33	4.00 (1.50 - 4.20)	1090 (200 - 1150)	3.67	2.17 + 3.03	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16
	18 + 35	1.36 + 2.64	4.00 (1.50 - 4.20)	1130 (200 - 1150)	3.54	1.78 + 3.42	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16
	25 + 25	2.00 + 2.00	4.00 (1.50 - 4.20)	1150 (200 - 1150)	3.48	2.60 + 2.60	5.20 (1.50 - 5.50)	1250 (250 - 1500)	4.16

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

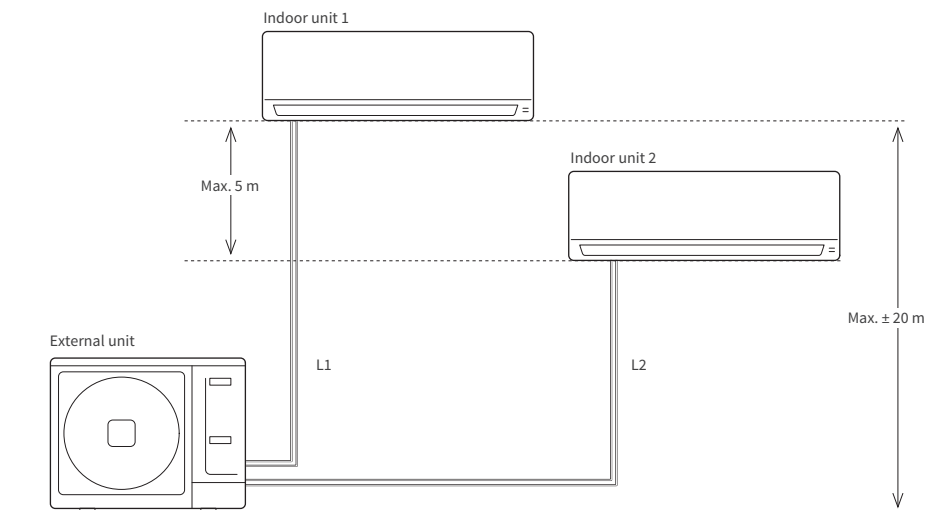
Pipe lengths

RAM - 40NE2F

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

The max. level difference between 2 indoor units is 5m.

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



RAM-53NE2F	COOLING MODE					HEATING MODE			
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
1 unit*	15	1.50	1.50 (1.00 - 2.20)	430 (350 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	610 (350 - 650)	3.28
	18	1.80	1.80 (1.00 - 2.00)	495 (350 - 750)	3.64	2.50	2.50 (1.10 - 3.20)	690 (350 - 1050)	3.62
	25	2.50	2.50 (1.00 - 2.80)	700 (350 - 980)	3.57	3.90	3.90 (1.10 - 4.70)	1060 (350 - 1380)	3.68
	35	3.50	3.50 (1.00 - 3.90)	1030 (350 - 1280)	3.40	4.80	4.80 (1.10 - 5.80)	1320 (350 - 1870)	3.64
	50	5.00	5.00 (1.00 - 5.50)	1510 (350 - 1660)	3.31	6.80	6.50 (1.10 - 7.20)	1680 (350 - 2010)	3.87
2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 3.90)	920 (350 - 1000)	3.26	2.00 + 2.00	4.00 (1.50 - 4.70)	1060 (350 - 1380)	3.77
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.90)	1020 (350 - 1300)	3.24	2.00 + 2.50	4.50 (1.50 - 5.20)	1250 (350 - 1870)	3.6
	15 + 25	1.50 + 2.50	4.00 (1.50 - 4.50)	1180 (350 - 1250)	3.39	2.00 + 3.90	5.90 (1.50 - 6.50)	1550 (350 - 2010)	3.81
	15 + 35	1.50 + 3.50	5.00 (1.50 - 5.90)	1480 (350 - 1660)	3.38	2.00 + 4.80	6.80 (1.50 - 7.20)	1590 (350 - 2010)	4.28
	15 + 50 ⁽¹⁾	1.22 + 4.08	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	1.60 + 5.20	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	18 + 18	1.80 + 1.80	3.60 (1.50 - 4.00)	1080 (350 - 1300)	3.33	2.50 + 2.50	5.00 (1.50 - 5.20)	1290 (350 - 1550)	3.88
	18 + 25	1.80 + 2.50	4.30 (1.50 - 4.60)	1220 (350 - 1450)	3.52	2.50 + 3.90	6.40 (1.50 - 6.30)	1530 (350 - 1920)	4.18
	18 + 35	1.80 + 3.50	5.30 (1.50 - 5.60)	1260 (350 - 1660)	4.21	2.31 + 4.49	6.80 (1.50 - 7.20)	1610 (350 - 2010)	4.22
	18 + 50 ⁽¹⁾	1.40 + 3.90	5.30 (1.50 - 5.90)	1550 (350 - 1660)	3.42	1.80 + 5.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	25 + 25	2.50 + 2.50	5.00 (1.50 - 5.60)	1470 (350 - 1660)	3.40	3.40 + 3.40	6.80 (1.50 - 7.20)	1780 (350 - 2010)	3.82
	25 + 35	2.21 + 3.09	5.30 (1.50 - 5.70)	1550 (350 - 1660)	3.42	2.83 + 3.97	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	25 + 50 ⁽¹⁾	1.77 + 3.53	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	2.27 + 4.53	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
	35 + 35	2.65 + 2.65	5.30 (1.50 - 5.90)	1660 (350 - 1660)	3.19	3.40 + 3.40	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74
35 + 50 ⁽¹⁾	2.18 + 3.12	5.30 (1.50 - 6.60)	1660 (350 - 1660)	3.19	2.80 + 4.00	6.80 (1.50 - 7.20)	1820 (350 - 2010)	3.74	

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

⁽¹⁾ For each output corresponding to units 50, a 3/8-to-1/2 pipe adapter is required.

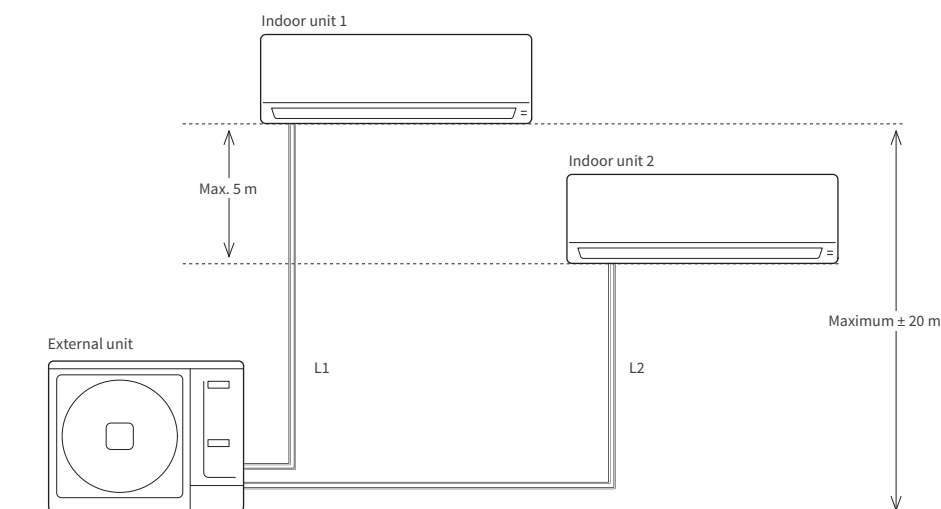
Pipe lengths

RAM-53NE2F

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

The max. level difference between 2 indoor units is 5m.

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



Indoor unit combinations

Summit multi-split units

RAM-53NE3F	COOLING MODE					HEATING MODE			
	Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP	
1 unit*	15	1.50	1.50 (1.00 - 1.60)	430 (200 - 480)	3.49	2.00	2.00 (1.10 - 2.20)	560 (320 - 850)	3.57
	18	1.80	1.80 (1.50 - 2.00)	495 (280 - 500)	3.64	2.50	2.50 (1.80 - 3.50)	720 (320 - 1130)	3.47
	25	2.50	2.50 (1.50 - 2.80)	700 (280 - 720)	3.57	3.40	3.40 (1.80 - 4.70)	980 (320 - 1480)	3.47
	35	3.50	3.50 (1.50 - 3.90)	1030 (280 - 1130)	3.40	4.30	4.30 (1.80 - 5.80)	1150 (320 - 1950)	3.74
	50	5.00	5.00 (1.50 - 5.60)	1480 (280 - 1800)	3.38	6.50	6.50 (1.80 - 7.20)	1880 (320 - 2530)	3.46
2 units	15 + 15	1.50 + 1.50	3.00 (1.50 - 3.50)	870 (380 - 980)	3.45	2.00 + 2.00	4.00 (2.20 - 4.70)	1080 (200 - 1100)	3.70
	15 + 18	1.50 + 1.80	3.30 (1.50 - 3.50)	950 (380 - 1000)	3.47	2.00 + 2.50	4.50 (2.20 - 5.20)	1200 (200 - 1300)	3.75
	15 + 25	1.50 + 2.50	4.00 (1.50 - 4.00)	1300 (380 - 1300)	3.08	2.00 + 3.40	5.40 (2.20 - 6.40)	1450 (200 - 1780)	3.72
	15 + 35	1.50 + 3.50	5.00 (1.50 - 5.20)	1450 (380 - 1450)	3.45	2.00 + 4.30	6.30 (2.20 - 7.20)	1660 (200 - 2010)	3.80
	15 + 50 ⁽¹⁾	1.22 + 4.08	5.30 (1.50 - 6.30)	1700 (380 - 2380)	3.12	1.60 + 5.20	6.80 (2.20 - 7.20)	1770 (320 - 2010)	3.84
	18 + 18	1.80 + 1.80	3.60 (1.50 - 5.90)	1020 (380 - 1020)	3.53	2.50 + 2.50	5.00 (2.20 - 6.40)	1380 (320 - 2010)	3.62
	18 + 25	1.80 + 2.50	4.30 (1.50 - 5.90)	1200 (380 - 1360)	3.58	2.50 + 3.40	5.90 (2.20 - 7.20)	1580 (320 - 2010)	3.73
	18 + 35	1.80 + 3.50	5.30 (1.50 - 5.90)	1290 (380 - 1950)	4.11	2.50 + 4.30	6.80 (2.20 - 7.20)	1650 (320 - 2010)	4.12
	18 + 50 ⁽¹⁾	1.80 + 5.00	5.30 (1.50 - 5.90)	1800 (380 - 2820)	2.94	1.89 + 4.91	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24
	25 + 25	2.50 + 2.50	5.00 (2.00 - 5.50)	1480 (380 - 1720)	3.38	3.40 + 3.40	6.80 (2.20 - 9.50)	1770 (430 - 2010)	3.84
	25 + 35	2.50 + 3.50	5.30 (2.00 - 6.60)	1640 (380 - 2380)	3.23	3.00 + 3.80	6.80 (2.20 - 9.50)	1880 (430 - 2010)	3.62
	25 + 50 ⁽¹⁾	1.77 + 3.53	5.30 (2.00 - 7.20)	1610 (380 - 2820)	3.29	2.34 + 4.46	6.80 (2.20 - 9.50)	2100 (430 - 2600)	3.24
	35 + 35	2.65 + 2.65	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40 + 3.40	6.80 (2.20 - 9.50)	1880 (430 - 3120)	3.62
	35 + 50 ⁽¹⁾	2.18 + 3.12	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	2.71 + 4.09	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62
	50 + 50 ⁽¹⁾	2.65 + 2.65	5.30 (2.00 - 7.50)	1800 (380 - 2820)	2.94	3.40 + 3.40	6.80 (2.20 - 9.50)	1880 (430 - 2600)	3.62

* Note: this refers to the performance with only one unit in operation. However, at least 2 units must be connected to the outside unit.

⁽¹⁾ For each output corresponding to units 50, a 3/8-to-1/2 pipe adapter is required.

Pipe lengths

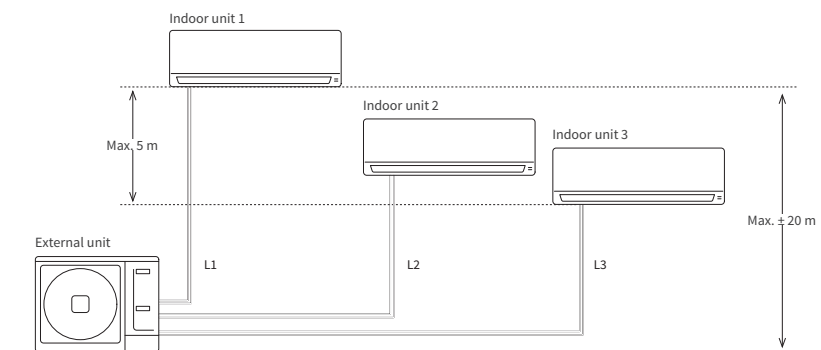
RAM-53NE3F

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

The max. level difference between 2 indoor units is 5m.

Pre-charged for 35 m.
Beyond 35 m, allow an additional 20g/m.

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



RAM-53NE3F		COOLING MODE				HEATING MODE			
		Unit power (kW)	Total power (kW)	Total power input (W)	EER	Unit power (kW)	Total power (kW)	Total power input (W)	COP
3 units	15 + 15 + 15	1.50 + 1.50 + 1.50	4.50 (2.20 - 5.00)	1400 (420 - 1680)	3.21	2.00 + 2.00 + 2.00	6.00 (2.40 - 6.50)	1650 (430 - 1800)	3.64
	15 + 15 + 18	1.50 + 1.50 + 1.80	4.80 (2.20 - 5.50)	1480 (240 - 1880)	3.24	2.00 + 2.00 + 2.50	6.50 (2.40 - 7.00)	1750 (430 - 2100)	3.71
	15 + 15 + 25	1.45 + 1.45 + 2.41	5.30 (2.20 - 6.00)	1680 (420 - 2280)	3.15	1.84 + 1.84 + 3.12	6.80 (2.20 - 9.30)	1850 (430 - 2200)	3.68
	15 + 15 + 35	1.22 + 1.22 + 2.85	5.30 (2.20 - 7.00)	1800 (420 - 2480)	2.94	1.64 + 1.64 + 3.52	6.80 (2.40 - 9.50)	1850 (430 - 2500)	3.68
	15 + 15 + 50 ⁽¹⁾	0.99 + 0.99 + 3.31	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.30 + 1.30 + 4.21	6.80 (2.40 - 9.50)	2000 (430 - 2500)	3.40
	15 + 18 + 18	1.50 + 1.80 + 1.80	5.10 (2.20 - 5.60)	1500 (420 - 2280)	3.40	1.94 + 2.43 + 2.43	6.80 (2.20 - 9.30)	1850 (430 - 2400)	3.68
	15 + 18 + 25	1.37 + 1.64 + 2.28	5.30 (2.20 - 6.30)	1590 (420 - 2480)	3.33	1.72 + 2.15 + 2.93	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68
	15 + 18 + 35	1.17 + 1.40 + 2.73	5.30 (2.20 - 7.50)	1680 (420 - 2480)	3.15	1.55 + 1.93 + 3.32	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68
	15 + 18 + 50 ⁽¹⁾	0.96 + 1.15 + 3.19	5.30 (2.20 - 7.50)	1800 (420 - 2890)	2.94	1.24 + 1.55 + 4.02	6.80 (2.40 - 9.50)	2050 (430 - 2600)	3.72
	15 + 25 + 25	1.22 + 2.04 + 2.04	5.30 (1.50 - 7.00)	1710 (420 - 2480)	3.10	1.55 + 2.63 + 2.63	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68
	15 + 25 + 35	1.06 + 1.77 + 2.47	5.30 (2.20 - 7.80)	1800 (420-2890)	2.94	1.40 + 2.38 + 3.01	6.80 (2.40 - 9.50)	1850 (430 - 2600)	3.68
	15 + 25 + 50 ⁽¹⁾	0.88 + 1.47 + 2.97	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.14 + 1.94 + 3.71	6.80 (2.40 - 9.50)	2100 (430-2600)	3.24
	15 + 35 + 35	0.94 + 2.18 + 2.18	5.30 (2.20-8.00)	1800 (420 - 2890)	2.94	1.28 + 2.76 + 2.76	6.80 (2.40 - 9.50))	2100 (430-2600)	3.24
	15 + 35 + 50 ⁽¹⁾	0.80 + 1.86 + 2.65	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.06 + 2.28 + 3.45	6.80 (2.40 - 9.50)	2100 (430-2600)	3.24
	18 + 18 + 18	1.77 + 1.77 + 1.77	5.30 (2.20 - 5.90)	1500 (420 - 2190)	3.53	2.27 + 2.27 + 2.27	6.80 (2.40 - 9.50)	1860 (430 - 2600)	3.66
	18 + 18 + 25	1.56 + 1.56 + 2.17	5.30 (2.20 - 6.70)	1610 (420 - 2480)	3.29	2.02 + 2.02 + 2.75	6.80 (2.40 - 9.50)	1740 (430 - 2600)	3.91
	18 + 18 + 35	1.34 + 1.34 + 2.61	5.30 (2.20 - 7.80)	1800 (420 - 2890)	2.94	1.83 + 1.83 + 3.14	6.80 (2.40 - 9.50)	1820 (430 - 2600)	3.74
	18 + 18 + 50 ⁽¹⁾	1.11 + 1.11 + 3.08	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.48 + 1.48 + 3.84	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
	18 + 25 + 25	1.40 + 1.95 + 1.95	5.30 (2.20 - 7.50)	1730 (420 - 2780)	3.06	1.83 + 2.49 + 2.49	6.80 (2.40 - 9.50)	1760 (430 - 2600)	3.86
	18 + 25 + 35	1.22 + 1.70 + 2.38	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.67 + 2.27 + 2.87	6.80 (2.40 - 9.50)	1820 (430 - 2600)	3.74
	18 + 25 + 50 ⁽¹⁾	1.03 + 1.42 + 2.85	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.37 + 1.86 + 3.56	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
	18 + 35 + 35	1.08 + 2.11 + 2.11	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.53 + 2.63 + 2.63	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
	18 + 35 + 50 ⁽¹⁾	0.93 + 1.80 + 2.57	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.28 + 2.20 + 3.32	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
	25 + 25 + 25	1.77 + 1.77 + 1.77	5.30 (2.20 - 7.80)	1800 (420 - 2890)	2.94	2.27 + 2.27 + 2.27	6.80 (2.40 - 9.50)	1870 (430 - 2600)	3.64
	25 + 25 + 35	1.56 + 1.56 + 2.18	5.30 (2.20 - 8.00)	1800 (420 - 2960)	2.94	2.08 + 2.08 + 2.63	6.80 (2.40 - 9.50)	1930 (430 - 2600)	3.52
	25 + 25 + 50 ⁽¹⁾	1.33 + 1.33 + 2.65	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.74 + 1.74 + 3.32	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
	25 + 35 + 35	1.39 + 1.95 + 1.95	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.93 + 2.44 + 2.44	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
	25 + 35 + 50 ⁽¹⁾	1.20 + 1.69 + 2.41	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	1.63 + 2.06 + 3.11	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24
35 + 35 + 35	1.77 + 1.77 + 1.77	5.30 (2.20 - 8.00)	1800 (420 - 2890)	2.94	2.27 + 2.27 + 2.27	6.80 (2.40 - 9.50)	2100 (430 - 2600)	3.24	

⁽¹⁾ For each output corresponding to units 50, a 3/8-to-1/2 pipe adapter is required.