



HITACHI
Air conditioning solutions

HITACHI

PRIMAIRY

FIXED SPEED | COOLING ONLY | R410A

Cooling & Heating

Johnson Controls - Hitachi Air Conditioning

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TNZGN(M)H1-C-1808

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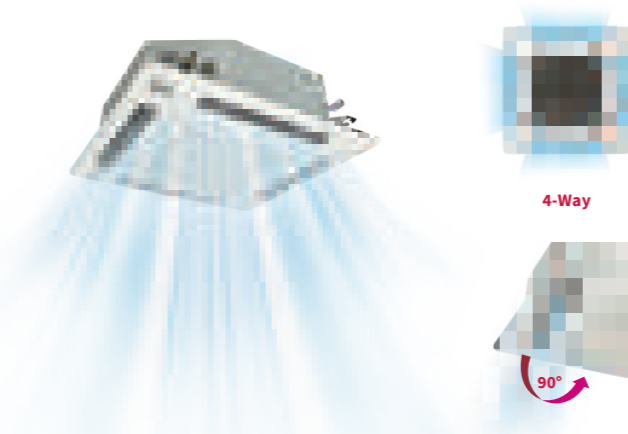
18 Controller



COMFORTABLE

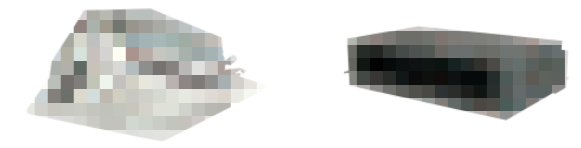
4-Way Airflow

Front air deflectors are adjustable for horizontal or vertical airflow. Smooth airflow can be directed to air condition the whole room or even a particular point for better comfort.



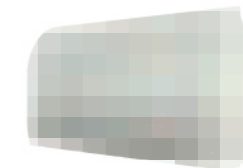
Multi-Speed Fan(Indoor unit)

Multi-Speed fan helps satisfy various airflow requirement.



Cassette Type

Ducted Type



Floor Ceiling Type

Adjustable ESP

ESP in Ducted unit can be adjusted to accommodate various installation configuration.



| Capacity (HP) | | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 6.0 | 6.5 |
|---------------|-------|-------|-------|-------|-------|-------|--------|--------|
| ESP | Rated | 10 | 10 | 10 | 50 | 50 | 80 | 80 |
| | Range | 10/30 | 10/30 | 10/30 | 50/80 | 50/80 | 80/120 | 80/120 |

Auto Restart

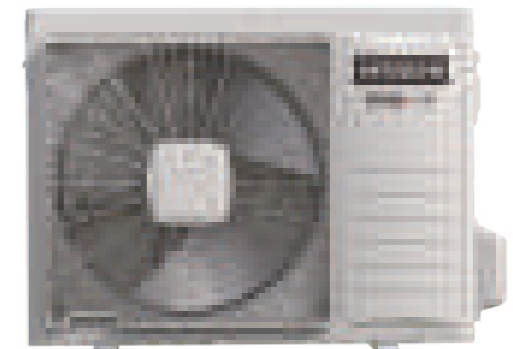
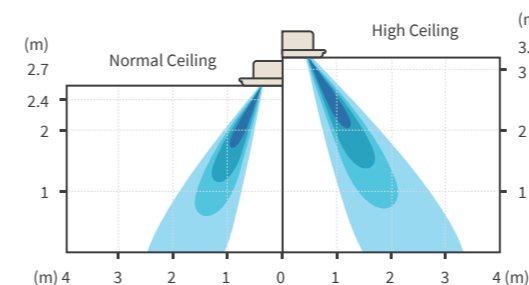
Units are automatically returned to previous operation conditions after a power outage, for simplified operation.

Quiet Operation

Units have quiet mode which can reduce the fan speed and frequency of the compressor to get low operation noise.

Temperature Compensation

Enhance temperature distribution when cassette unit is installed at high ceiling height by varying air flow velocity and intelligently correcting temperature difference for desired set point



EFFICIENT & FLEXIBLE

High Efficiency Compressor

Powerful cooling performance at standard and low ambient temperatures:

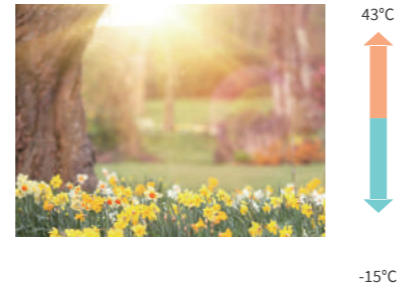
High efficiency attributed to high performance twin rotary compressor.

Twin rotors balances out centrifugal load resulting from rotation. Reduce compressor vibration, lower noise level, and increase reliability.

Wide Ambient Temperature Range

High cooling and heating performance at wide ambient temperature range.

Cooling mode:
(2.0~6.5HP)



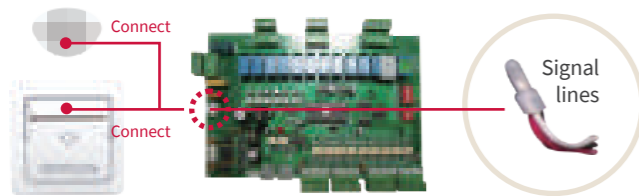
High Efficiency Fin Optimized fin design for heat exchanging High Efficient Heat Exchanger



Low Ambient Cooling

Strong cooling performance at low ambient temperature, enabling delivery of reliable cooling demands to users who constantly required high level of air cooling rate regardless of outdoor conditions. System is designed for cooling at -15°C.

Expansion interface for Key Slot and Fire Alarm Device



Variable motor fan speed

Optimized fan speed in outdoor unit based on actual load for higher efficiency and more energy saving.



RELIABLE

Hydrophilic Aluminium Fin

Hydrophilic aluminum fin enhances heat exchanging performance by increasing water wettability on fin surface and preventing water droplet from forming blockage between fins.

Blue coating enhances protection from corrosion resulting from environmental and microbiological factors, increasing reliability and ensuring performance.



Temperature Protection System

- Fan motor overheating protection
- Compressor overheating protection



Self Diagnosis

Clearly display failure codes all for quick trouble shooting and easier maintenance.

Low/High pressure switch

High pressure and Low pressure switches ensure the refrigerant system is protected in the event of system over/under pressure.

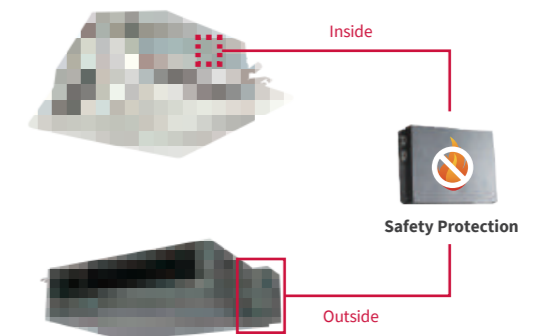
Comments: only applicable for model above 24k.

High reliability of compressor operation

Viscosity testing was taken for compressor in order to ensure the reliability of the running.

Safety Protection

Control board and electronics are completely enclosed by steel casing which offers great protection against fire hazards and ensures high level of safety during operation.



Discharge temperature sensor

Ensure the compressor will operate in the safety range, and prevent the damage caused by refrigerant leakage.

Durable Protection Drainage System

The special design of drain pan makes condensation water flow smoothly without water leakage, also anti-rust.

In the case water pump has problem and the water level rises to a certain level, the water level switch will trigger the turn-off of the unit.

Galvanized Steel Appearance

Duct structure adopts galvanized steel design for durable strength, and anti-corrosion protection.

CASSETTE TYPE



HCRA31NEWH
(Standard)

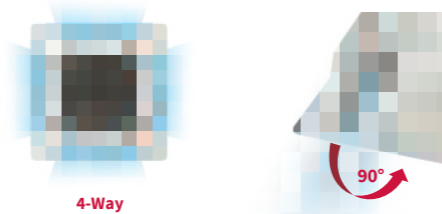


HCWA21NEWH
(Optional)



4-Way Airflow

Front air deflectors are adjustable for horizontal or vertical airflow. Smooth airflow can be directed to air condition the whole room or even a particular point for better comfort.



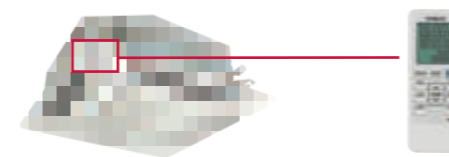
Low Noise Vortex Fan & Fresh Air Inlet

Incorporating with vortex fan technology, these units fit neatly into the ceiling and distribute conditioned air through 4 sides of the unit. Streamline design of vortex fan blades improved air flow while reduces noise.

Fresh air outside can be led into the room, which keeps room air fresh and ventilated. It's about 15m³/h. (Optional function to build fresh air plenum.)

IR receiver for Remote Controller

Reserved port for Remote sensing which makes control more convenient.



Washable Filter

Washable filter allows for convenience service and maintenance.



Vortex Fan



SPECIFICATIONS

CASSETTE

| IDU | | RCI-1.0TNZ1NH | RCI-1.5TNZ1NH | RCI-2.0TNZ1NH | RCI-3.0TNZ1NH | RCI-4.0TNZ1NH | RCI-6.0TNZ1NH | RCI-6.5TNZ1NH | |
|--|--------------------------|-------------------|------------------------|------------------------|------------------------|-------------------------|----------------------|-------------------------|-------------------------|
| ODU | | RAS-1.0TNZGNH1 | RAS-1.5TNZGNH1 | RAS-2.0TNZGNH1 | RAS-3.0TNZGNH1 | RAS-4.0TNZGMH1 | RAS-6.0TNZGMH1 | RAS-6.5TNZGMH1 | |
| Power supply | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | |
| Max. input consumption | W | 1,800 | 1,800 | 2,355 | 3,254 | 4,368 | 6,200 | 8,234 | |
| Max. input current | A | 10.0 | 10.0 | 10.5 | 15.5 | 9.1 | 11.8 | 16.6 | |
| Cooling | Capacity | kW | 2,998 | 3,370 | 4,648 | 6,829 | 10,056 | 12,506 | 15,240 |
| | Capacity | Btu/h | 10,230 | 11,500 | 15,860 | 23,300 | 34,310 | 42,670 | 52,000 |
| | Input | W | 1,052 | 1,127 | 1,761 | 2,430 | 3,566 | 4,581 | 5,583 |
| | Current | A | 6.2 | 6.2 | 7.5 | 10.5 | 6.9 | 8.9 | 10.0 |
| | EER | W/W | 2.85 | 2.99 | 2.64 | 2.81 | 2.82 | 2.73 | 2.73 |
| Indoor fan motor | Qty | | 1 | 1 | 1 | 1 | 1 | 1 | |
| | Input | W | 39 | 39 | 69 | 88 | 165 | 174 | 174 |
| | Capacitor | μF | 1.5 | 1.5 | 2.0 | 3.0 | 5.0 | 4.0 | 4.0 |
| | Speed(Hi/Med/Lo) | r/min | 700/600/500 | 700/600/500 | 980/840/720 | 450/390/270 | 625/550/480 | 640/550/450 | 640/550/450 |
| Indoor air flow Rated(Hi/Med/Lo) | m ³ /h | 600/510/430 | 600/510/430 | 800/700/600 | 1100/1000/900 | 1600/1400/1200 | 2000/1800/1600 | 2000/1800/1600 | |
| Indoor noise level (Hi/Med/Lo) | dB(A) | 42/40/36 | 42/40/36 | 46/44/42 | 43/41/38 | 53/50/48 | 50/45/42 | 50/45/42 | |
| Indoor unit | Dimension (WxHxD) | mm | 650×270×570 | 650×270×570 | 650×270×570 | 840×248×840 | 840×248×840 | 840×298×840 | 840×298×840 |
| | Packing (WxHxD) | mm | 770×310×750 | 770×310×750 | 770×310×750 | 996×370×956 | 996×370×956 | 996×420×956 | 996×420×956 |
| | Net/Gross weight | kg | 19/25 | 19/25 | 20/27 | 28/35 | 30/39 | 33/42 | 33/42 |
| Panel | Dimension (WxHxD) | mm | 650×30×650 | 650×30×650 | 650×30×650 | 950×37×950 | 950×37×950 | 950×37×950 | 950×37×950 |
| | Packing (WxHxD) | mm | 730×130×730 | 730×130×730 | 730×130×730 | 1025×120×1015 | 1025×120×1015 | 1025×120×1015 | 1025×120×1015 |
| | Net/Gross weight | kg | 2.4/5 | 2.4/5 | 2.4/5 | 6.5/9.5 | 6.5/9.5 | 6.5/9.5 | 6.5/9.5 |
| Drainage water pipe diameter | mm | IDΦ21 | IDΦ21 | IDΦ21 | IDΦ32 | IDΦ32 | IDΦ32 | IDΦ32 | |
| Controller | | Remote controller | Remote controller | Remote controller | Remote controller | Remote controller | Remote controller | Remote controller | |
| Operation temperature | °C | 16-30 | 16-30 | 16-30 | 16-30 | 16-30 | 16-30 | 16-30 | |
| Qty'per 20' /40' /40'HQ (Indoor Unit) | Set | 147/315/384 | 147/315/384 | 147/315/384 | 72/144/168 | 72/144/168 | 60/120/144 | 60/120/144 | |
| Compressor | Type | | ROTARY | ROTARY | ROTARY | ROTARY | ROTARY | ROTARY | |
| | Rated current(RLA) | A | 4.1 | 4.1 | 7.2 | 11.4 | 5.9 | 7.8 | 9.2 |
| | Refrigerant oil | ml | VG74/350 | VG74/350 | ATMOS-RB68EP/600 | α68HES-H/570 | α68HES-H/2600 | α68HES-H/1600 | α68HES-H/1600 |
| Outdoor fan motor | Qty | | 1 | 1 | 1 | 1 | 2 | 2 | |
| | Input | W | 25 | 25 | 41 | 118 | 160 | 74/74 | 145/145 |
| | Speed | r/min | 850 | 850 | 910 | 880/830/540 | 880/740/660 | 900/800/700 | 700/600/500 |
| Outdoor noise level (sound pressure) | dB(A) | 55 | 55 | 54 | 56 | 62 | 55 | 58 | |
| Throttle type | | Throttle Valve | Throttle Valve | Throttle Valve | Throttle Valve | Capillary | Capillary | Capillary | |
| Outdoor unit | Dimension (WxHxD) | mm | 715×482×240 | 715×482×240 | 810×585×280 | 860×665×310 | 885×795×366 | 950×1050×340 | 950×1386×340 |
| | Packing (WxHxD) | mm | 830×530×315 | 830×530×315 | 940×640×420 | 990×730×450 | 1050×890×500 | 1110×1200×460 | 1110×1530×460 |
| | Net/Gross weight | kg | 28/30 | 28/30 | 42/45 | 51/56 | 67/71 | 96/103 | 106/116 |
| Refrigerant type/Quantity | Type | | R410A | R410A | R410A | R410A | R410A | R410A | |
| | Charged volume | kg | 0.85 | 0.85 | 1.30 | 1.58 | 2.60 | 2.40 | 3.10 |
| Refrigerant piping | Liquid side/Gas side | mm(inch) | Φ6.35/Φ12.7(1/4"/1/2") | Φ6.35/Φ12.7(1/4"/1/2") | Φ6.35/Φ12.7(1/4"/1/2") | Φ9.52/Φ15.88(3/8"/5/8") | Φ9.52/Φ19(3/8"/3/4") | Φ9.52/Φ19.05(3/8"/3/4") | Φ9.52/Φ19.05(3/8"/3/4") |
| | Max. pipe length | m | 15 | 15 | 20 | 30 | 30 | 50 | 50 |
| | Max. difference in level | m | 7.5 | 7.5 | 15 | 15 | 20 | 30 | 30 |
| Ambient temperature | °C | 15-43 | 15-43 | -15-43 | -15-43 | -15-43 | -15-43 | -15-43 | |
| Qty'per 20' /40' /40'HQ (Outdoor Unit) | Set | 204/412/520 | 204/412/520 | 102/204/272 | 90/186/186 | 44/92/96 | 26/53/106 | 26/53/53 | |

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB) & Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

DUCTED TYPE



HCWA21NEWH
(Standard)



HCRA31NEWH
(Optional)



Built-in drain pan

Compared with outside drain pan design, the new built-in drain pan can reduce the dust adhesion, and avoid water leakage.



Built-in drain pan

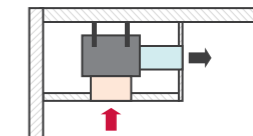
VS



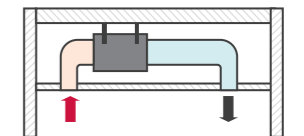
Outside drain pan

Flexible air return from bottom or rear

Depending on different installation circumstances, the installation will be highly flexible.



Bottom air intake

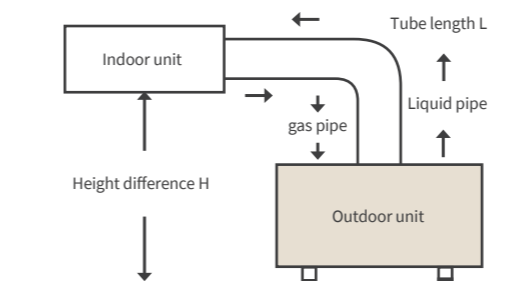


Rear air intake

These two kinds of design (straight blow & external ducted), without changing equipment, just adjust the ESP setting.

Long piping and Large Height Difference

Up to 50m piping run and 30m height applications can be covered, high flexibility in installation configuration.



Durable Protection Drainage System

The special design of drain pan makes condensation water flow smoothly without water leakage, also anti-rust.



SPECIFICATIONS

DUCTED

| IDU | | RPIL-1.0TNZ1NH | RPIL-1.5TNZ1NH | RPIL-2.0TNZ1NH | RPIM-3.0TNZ1NH | RPIM-4.0TNZ1NH | RPIH-6.0TNZ1NH | RPIH-6.5TNZ1NH |
|---|--------------------------|------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|----------------|
| ODU | | RAS-1.0TNZGNH1 | RAS-1.5TNZGNH1 | RAS-2.0TNZGNH1 | RAS-3.0TNZGNH1 | RAS-4.0TNZGMH1 | RAS-6.0TNZGMH1 | RAS-6.5TNZGMH1 |
| Power supply | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 |
| Max. input consumption | W | 1,800 | 1,800 | 2,460 | 3,250 | 4,321 | 6,479 | 8,234 |
| Max. input current | A | 10.0 | 10.0 | 10.2 | 15.5 | 9.0 | 12.1 | 16.6 |
| Cooling | Capacity | W | 2,989 | 3,277 | 4,686 | 6,829 | 10,258 | 13,113 |
| | Capacity | Btu/h | 10,200 | 11,180 | 15,990 | 23,300 | 35,000 | 44,740 |
| | Input | W | 1,076 | 1,162 | 1,775 | 2,439 | 3,703 | 4,967 |
| | Current | A | 5.1 | 5.1 | 7.5 | 10.2 | 6.9 | 8.8 |
| | EER | W/W | 2.78 | 2.82 | 2.64 | 2.80 | 2.77 | 2.64 |
| Indoor fan motor | Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Input | W | 70 | 70 | 83 | 226 | 209 | 558 |
| | Capacitor | μF | 3.0 | 3.0 | 2.5 | 6.0 | 10.0 | 10.0 |
| | Speed(Hi/Med/Lo) | r/min | 955/700/655 | 955/700/655 | 1280/1130/1070 | 910/830/730 | 917/821/787 | 1000/900/830 |
| Indoor air flow Rated(Hi/Med/Lo) | m ³ /h | 650/470/450 | 650/470/450 | 750/670/630 | 1250/1000/900 | 1800/1650/1500 | 2000/1800/1600 | |
| Indoor noise level (Hi/Med/Lo) | dB(A) | 34/29/28 | 34/31/29 | 38/36/35 | 42/40/38 | 40/38/37 | 46/44/42 | |
| Indoor unit | Dimension (WxHxD) | mm | 900×190×447 | 900×190×447 | 900×190×447 | 900×270×720 | 1300×350×800 | |
| | Packing(WxHxD) | mm | 1070×236×580 | 1070×236×580 | 1070×236×580 | 1170×340×870 | 1550×410×940 | |
| | Net/Gross weight | kg | 19/25 | 19/25 | 19/25 | 30/35 | 54/62 | |
| Drainage water pipe diameter | mm | ODΦ32 | ODΦ32 | ODΦ32 | ODΦ32 | ODΦ32 | ODΦ32 | |
| Controller | | Wired controller | Wired controller | Wired controller | Wired controller | Wired controller | Wired controller | |
| Operation temperature | °C | 16-30 | 16-30 | 16-30 | 16-30 | 16-30 | 16-30 | |
| Qty' per 20' /40' /40'HQ (Indoor unit) | Set | 200/440/484 | 200/440/484 | 200/440/484 | 84/182/182 | 35/75/90 | 35/75/90 | |
| Compressor | Type | ROTARY | ROTARY | ROTARY | ROTARY | ROTARY | ROTARY | |
| | Rated current(RLA) | A | 4.1 | 4.1 | 7.2 | 11.4 | 5.9 | |
| | Refrigerant oil | ml | VG74/350 | VG74/350 | ATMOS-RB68EP/600 | α68HES-H/570 | α68HES-H/2600 | |
| Outdoor fan motor | Qty | 1 | 1 | 1 | 1 | 1 | 2 | |
| | Input | W | 25 | 25 | 41 | 118 | 160 | |
| | Speed | r/min | 850 | 850 | 910 | 880/830/540 | 880/740/660 | |
| Outdoor noise level (sound pressure) | dB(A) | 55 | 55 | 54 | 56 | 62 | 55 | |
| Throttle type | | Throttle Valve | Throttle Valve | Throttle Valve | Throttle Valve | Capillary | Capillary | |
| Outdoor unit | Dimension(WxHxD) | mm | 715×482×240 | 715×482×240 | 810×585×280 | 860×665×310 | 885×795×366 | |
| | Packing(WxHxD) | mm | 830×530×315 | 830×530×315 | 940×640×420 | 990×730×450 | 1050×890×500 | |
| | Net/Gross weight | kg | 28/30 | 28/30 | 42/45 | 51/56 | 67/71 | |
| Refrigerant type/Quantity | Type | R410A | R410A | R410A | R410A | R410A | R410A | |
| | Charged volume | kg | 0.85 | 0.85 | 1.30 | 1.58 | 2.60 | |
| Refrigerant piping | Liquid side/ Gas side | mm(inch) | Φ6.35/Φ12.7 (1/4"/1/2") | Φ6.35/Φ12.7 (1/4"/1/2") | Φ6.35/Φ12.7 (1/4"/1/2") | Φ9.52/Φ15.88 (3/8"/5/8") | Φ9.52/Φ19.05 (3/8"/3/4") | |
| | Max. pipe length | m | 15 | 15 | 20 | 30 | 30 | |
| | Max. difference in level | m | 7.5 | 7.5 | 15 | 15 | 20 | |
| Ambient temperature | °C | 15-43 | 15-43 | -15-43 | -15-43 | -15-43 | -15-43 | |
| Qty' per 20' /40' /40'HQ (Outdoor unit) | Set | 204/412/520 | 204/412/520 | 102/204/272 | 90/186/186 | 44/92/96 | 26/53/106 | |

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB) & Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

FLOOR CEILING TYPE



HCRA31NEWH
(Standard)

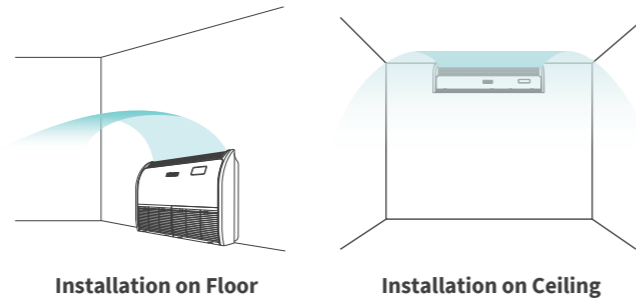


HCWA21NEWH
(Optional)



Installation on Floor or Ceiling

Floor installation and ceiling suspended installation allows users great flexibility to choose most optimized configuration for air conditioning needs.



Installation on Floor

Installation on Ceiling

Dual Drain pipe

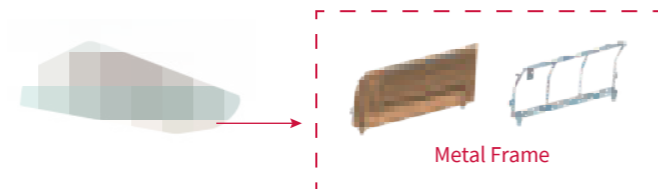
Both right and left sides are possible for drainage hose connection, easy for installation. There are 3 choices for refrigerant piping direction, to avoid the inconvenience caused by space limit.



- Fresh air inlet
- Refrigerant pipe line
- Drain pipe

Metal frame of drain pan

The drain pan adopts integrated design with high strength of steel and foaming PS, which can effectively enhance the durability of drain pan and improve the thermal insulation and anti-condensation function of the unit.



Metal Frame

Fresh air inlet

Allow fresh air intake to improve indoor ventilation and air quality.

SPECIFICATIONS

FLOOR CEILING

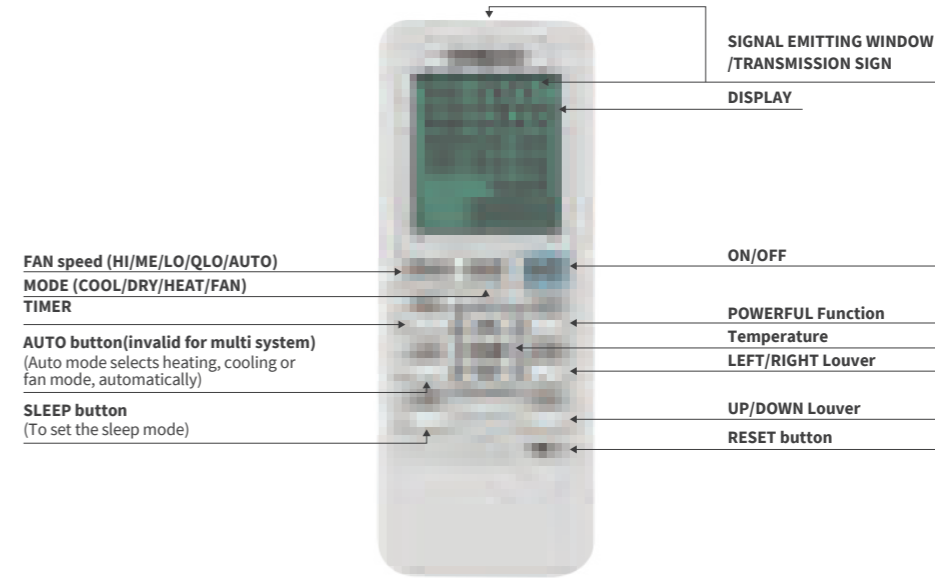
| IDU | | RPFC-2.0TNZ1NH | RPFC-3.0TNZ1NH | RPFC-4.0TNZ1NH | RPFC-6.0TNZ1NH | RPFC-6.5TNZ1NH | |
|--|--------------------------|-------------------|------------------------|-------------------------|----------------------|-------------------------|-------------------------|
| ODU | | RAS-2.0TNZGNH1 | RAS-3.0TNZGNH1 | RAS-4.0TNZGMH1 | RAS-6.0TNZGMH1 | RAS-6.5TNZGMH1 | |
| Power supply (Outdoor) | V/Ph/Hz | 220~240/1/50 | 220~240/1/50 | 380~415/3/50 | 380~415/3/50 | 380~415/3/50 | |
| Max. input consumption | W | 2,405 | 3,255 | 4,272 | 6,479 | 8,234 | |
| Max. input current | A | 11.0 | 15.5 | 8.9 | 12.1 | 16.6 | |
| Cooling | Capacity | W | 4,689 | 6,536 | 9,648 | 12,869 | 14,613 |
| | Capacity | Btu/h | 16,000 | 22,300 | 32,920 | 43,910 | 49,860 |
| | Input | W | 1,790 | 2,430 | 3,483 | 4,564 | 5,412 |
| | Current | A | 7.5 | 10.2 | 7.1 | 8.8 | 10.0 |
| | EER | W/W | 2.62 | 2.69 | 2.77 | 2.82 | 2.70 |
| Indoor fan motor | Qty | 1 | 1 | 1 | 1 | 1 | |
| | Input | W | 73 | 175 | 229 | 243 | 243 |
| | Speed(Hi/Med/Lo) | r/min | 850/720/630 | 1280/1100/920 | 1260/1130/1000 | 1200/1100/1000 | 1200/1100/1000 |
| Indoor air flow Rated(Hi/Med/Lo) | m ³ /h | 800/700/600 | 1400/1100/900 | 1700/1650/1500 | 2000/1800/1600 | 2000/1800/1600 | |
| Indoor noise level (Hi/Med/Lo) | dB(A) | 41/38/36 | 52/50/46 | 57/54/52 | 53/52/50 | 53/52/50 | |
| Indoor unit | Dimension (WxHxD) | mm | 990×230×680 | 990×230×680 | 1285×230×680 | 1580×230×680 | 1580×230×680 |
| | Packing(WxHxD) | mm | 1100×350×820 | 1100×350×820 | 1400×350×820 | 1690×350×820 | 1690×350×820 |
| | Net/Gross weight | kg | 28/35 | 30/36 | 40/47 | 46/54 | 46/54 |
| Drainage water pipe diameter | mm | ODΦ25 | ODΦ25 | ODΦ25 | ODΦ25 | ODΦ25 | |
| Controller | | Remote controller | Remote controller | Remote controller | Remote controller | Remote controller | |
| Operation temperature | °C | 16~30 | 16~30 | 16~30 | 16~30 | 16~30 | |
| Qty'per 20' /40' /40'HQ (Indoor unit) | | 84/168/196 | 84/168/196 | 66/132/154 | 42/84/98 | 42/84/98 | |
| Compressor | Type | ROTARY | ROTARY | ROTARY | ROTARY | ROTARY | |
| | Rated current(RLA) | A | 7.2 | 11.4 | 5.9 | 7.8 | 9.2 |
| | Refrigerant oil | ml | ATMOS-RB68EP/600 | α68HES-H/570 | α68HES-H/2600 | α68HES-H/1600 | α68HES-H/1600 |
| Outdoor fan motor | Qty | 1 | 1 | 1 | 2 | 2 | |
| | Input | W | 41 | 118 | 160 | 74/74 | 145/145 |
| | Speed | r/min | 910 | 880/830/540 | 880/740/660 | 900/800/700 | 700/600/500 |
| Outdoor noise level (sound pressure) | dB(A) | 54 | 56 | 62 | 55 | 58 | |
| Throttle type | | Throttle Valve | Throttle Valve | Throttle Valve | Capillary | Capillary | |
| Outdoor unit | Dimension (WxHxD) | mm | 810×585×280 | 860×665×310 | 885×795×366 | 950×1050×340 | 950×1386×340 |
| | Packing (WxHxD) | mm | 940×640×420 | 990×730×450 | 1050×890×500 | 1110×1200×460 | 1110×1530×460 |
| | Net/Gross weight | kg | 42/45 | 51/56 | 67/71 | 96/103 | 106/116 |
| Refrigerant type /Quantity | Type | R410A | R410A | R410A | R410A | R410A | |
| | Charged volume | kg | 1.30 | 1.58 | 2.60 | 2.40 | 3.10 |
| Refrigerant piping | Liquid side/Gas side | mm(inch) | Φ6.35/Φ12.7(1/4"/1/2") | Φ9.52/Φ15.88(3/8"/5/8") | Φ9.52/Φ19(3/8"/3/4") | Φ9.52/Φ19.05(3/8"/3/4") | Φ9.52/Φ19.05(3/8"/3/4") |
| | Max. pipe length | m | 20 | 30 | 30 | 50 | 50 |
| | Max. difference in level | m | 15 | 15 | 20 | 30 | 30 |
| Ambient temperature | Cooling | °C | -15~43 | -15~43 | -15~43 | -15~43 | -15~43 |
| Qty'per 20' /40' /40'HQ (Outdoor unit) | Set | 102/204/272 | 90/186/186 | 44/92/96 | 26/53/106 | 26/53/53 | |

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB (27°C DB / 19°C WB) & Outdoor 95°F DB / 75.2°F WB (35°C DB / 24°C WB)

CONTROLLER

REMOTE CONTROLLER

HCRA31NEWH



WIRED CONTROLLER

HCWA21NEWH

