SAMSUNG

# SINGLE
# Technical Data Book

## Wind-Free 4Way Cassette for Europe

## (R410A, HP)



Model : AC✳✳✳MN✳✳KH/EU (Indoor Unit), AC✳✳✳MXAD✳H/EU (Outdoor Unit)

# History

| Version | Modification | Date | Remark |
|---|---|---|---|
| Ver.1.0 | Released CAC Wind-Free 4Way Cassette for Europe (R410A, HP) | ''17. 12. 14 | |

# Features & Benefits

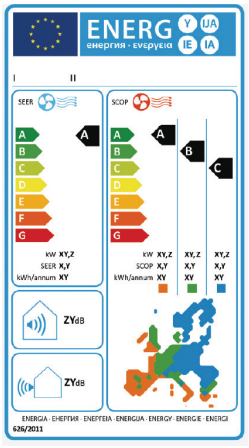
## CAC - World-class energy efficiency

### Maintain optimal comfort and control with energy and cost-efficient technologies

Featuring a suite of energy-optimizing technologies, Samsung CAC Single delivers top-class energy efficiency to support business in saving costs and the environment. Plus, CAC Single with its smart technologies fully complies with new European Union (EU) regulations for more efficient performance.

### Small package, big performance

The Samsung Ceiling Type air conditioner boasts a slim, compact design—half the size of conventional products—with cooling power comparable to larger units.




New Energy Label

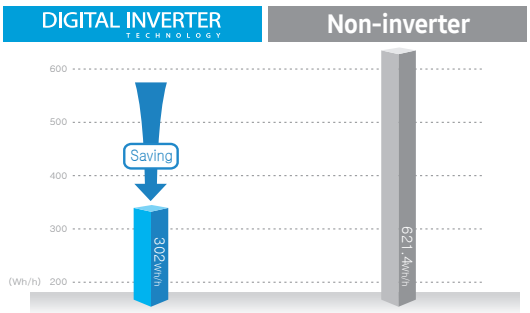
*Table 1: Introduction of revised energy consumption labelling for air conditioners as per EU Directive 2011/626/EU

### Quick, efficient heating and cooling

Smart inverter technology offers powerful, quick cooling and heating with minimal electricity consumption, which means real cost savings and less energy waste. The EU has established new regulations to drastically cut the power consumption of air conditioners. Inefficient units will be gradually withdrawn from the market starting in 2013. To further support this initiative, the EU is introducing an improved energy labeling system to provide consumers a better idea of how much electricity their units consume.

### Up to 50 percent less energy use

After reaching changes its operation mode to economical. By avoiding inefficient and frequent switching on and off of the compressor, the digital inverter saves up to 50 percent in energy consumption compared to non-inverter air conditioners.




### Wind-Free Cooling with Micro holes

- The Wind-Free Air conditioner pushes air out through 13,000 micro holes in the panel, producing a dispersed and gentle flow of air actually defined as “still air” and the key here is all of those holes create a still, cooled air flow that infiltrates the room gently and softly.

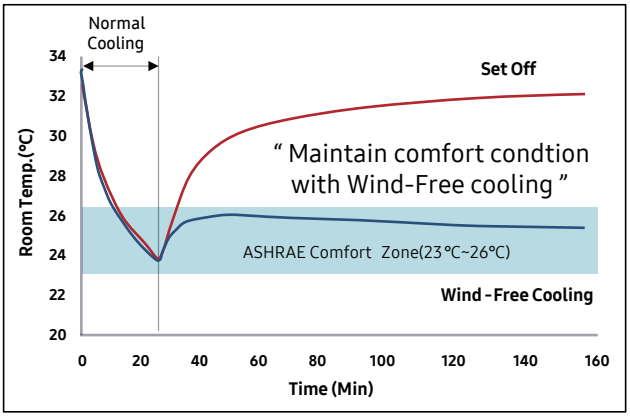
※ Still Air condition : According to ASHRAE, If velocity of wind is lower than 0.15m/s, People can not detect wind. And they define that condition is “Still Air”

**No Direct Wind & Cold Draft**




※ Wind-Free 4Way(600x600) : 9,000 Micro Holes

**[ Comparision of Room Temp.]**




※ Interanal Test (14.0kW Model @ 122㎡)

# Features & Benefits

## CAC Single - Superior performance

### Stabilize the atmosphere with broad temperature allowance and control

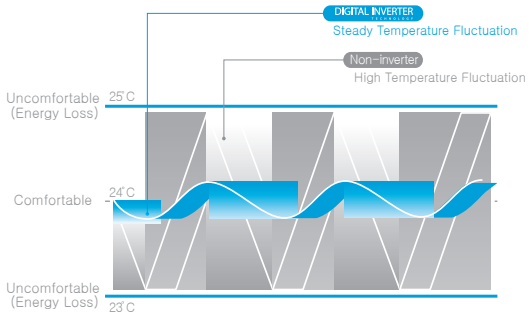
Samsung is dedicated to supporting comfortable living and working environments based on the strength of its technologies. With a single unit, CAC Single delivers reliable comfort and control over multiple areas to ensure a pleasant atmosphere in any climate.

### Wide temperature performance

No matter how extreme the temperature, the high-performing CAC Single can handle the condition- without the need for an additional unit. Featuring a wide temperature allowance,  it can cool in heat of up to 50 and provide warmth in the freezing cold of -20°C to ensure a constant and comfortable home environment.

### Ideal comfort in minutes

The CAC Single digital inverter air conditioner works at maximum capacity at startup. As soon as the temperature reaches the desired or set temperature, CAC Single performs fine adjustments to cope with any changes. This means less temperature fluctuation and ideal comfort in a matter of minutes.




### Versatile piping installation

CAC Single outdoor units offer a selection of pipe directions. The internal pipe connection ports allow four different pipe directions, supporting a neater, more organized-looking unit upon installation.



# Nomenclature

## Indoor Unit

**Model Name**

| AC | 026 | N | N | N | D | K | H | / | EU |
|---|---|---|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | Buyer |

(1) Classification

| | |
|---|---|
| AC | CAC |

(2) Capacity

| |
|---|
| x 1/10 kW (3 digits) |

(3) Version

| | |
|---|---|
| H | 2014 |
| J | 2015 |
| K | 2016 |
| M | 2017 |
| N | 2018 |

(4) Product Type

| | |
|---|---|
| N | Indoor Unit |
| X | Outdoor Unit |

(5) Product Notation

| | |
|---|---|
| 1 | 1 Way Cassette |
| N | 4 Way Cassette (600x600)<br>Wind-Free 4 Way Cassette (600x600) |
| 4 | 4 Way Cassette, 360 Cassette<br>Wind-Free 4 Way Cassette |
| L | LSP Duct |
| M | MSP Duct |
| C | Ceiling |
| J | Console |
| A | A3050 (Wall Mounted) |

(6) Feature

| | |
|---|---|
| F | Flagship |
| S | Standard |
| D | Deluxe |
| P | Premium |

(7) Rating Voltage

| | |
|---|---|
| K | 1Φ, 220~240V, 50/60Hz |

(8) Mode

| | |
|---|---|
| H | Heat Pump |

# Nomenclature

## Outdoor Unit

**Model Name**

| AC | 026 | M | X | A | D | K | H | / | EU |
|---|---|---|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | Buyer |

(1) Classification

| | |
|---|---|
| AC | CAC |

(2) Capacity

| |
|---|
| X 1/10 kW (3 digits) |

(3) Version

| | |
|---|---|
| H | 2014 |
| J | 2015 |
| K | 2016 |
| M | 2017 |

(4) Product Type

| | |
|---|---|
| N | Indoor Unit |
| X | Outdoor Unit |

(5) Product Notation

| | |
|---|---|
| A | Inv+Side+General Temp |

(6) Feature

| | |
|---|---|
| F | Flagship |
| S | Standard |
| D | Deluxe |
| P | Premium |

(7) Rating Voltage

| | |
|---|---|
| K | 1Φ, 220~240V, 50/60Hz |
| N | 3Φ, 380~415V, 50/60Hz |

(8) Mode

| | |
|---|---|
| H | Heat Pump |

# Line-up

## Indoor unit

| Model | Capacity (kW) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2.6 | 3.5 | 5.2 | 6.0 | 7.1 | 9.0 | 10.0 | 12.0 | 14.0 |
| Wind-Free 4Way CST (600x600) |  |  |  |  |  | | | | |
| Wind-Free 4Way CST | | |  | |  |  |  |  |  |

## Outdoor Unit

| Model | Capacity (kW) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2.6 | 3.5 | 5.2 | 6.0 | 7.1 | 9.0 | 10.0 | 12.0 | 14.0 |
| 1Phase |  |  |  |  |  |  |  |  |  |
| 3Phase | | | | | | |  |  |  |

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# Wind-Free 4Way Cassette (600x600)

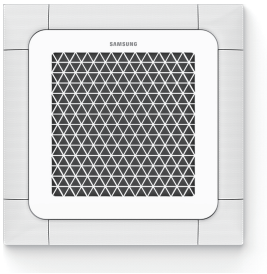

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# Features & Benefits

## Wind-Free 4Way Cassette (600x600)

### Add chic flair to your interior design with a stylish yet powerful AC system

Samsung's advanced Wind-Free 4Way Cassette (600 x 600) builds on the aesthetic appeal and performance of the standard Wind-Free 4Way Cassette with an enhanced design. The Wind-Free 4Way Cassette (600 x 600) comes in a variety of patterns to complement any interior. The stylish cassette unit visually harmonizes with the indoor space, while efficient cooling and heating performance make it a dependable and practical air conditioning solution.



The Wind-Free 4Way Cassette (600 x 600) indoor air conditioning system provides high-performance heating and cooling in an elegant design with features such as:

- **Tasteful design and compact, lightweight build.** Create a polished ambiance with a discreetly sized design and a choice of attractive panel patterns.
- **Enhanced comfort control.** Optimize comfort and save energy with optional motion detection.
- **Low maintenance and powerful airflow.** Ease installation and maintenance and maximize airflow with an efficient design and robust performance.

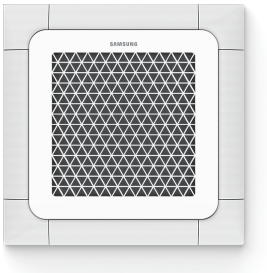
## Wind-Free 4Way Cassette (600 x 600) - Tasteful design, Compact, Lightweight build

### Refine the interior with an elegant, compact design

The enhanced Samsung Wind-Free 4Way Cassette (600 x 600) indoor air conditioner features a selection of simple panel patterns to blend seamlessly into any interior design. Its uniquely lightweight frame blends effortlessly and beautifully into any décor, while clever blade construction keeps the unit clean for a tidy appearance.

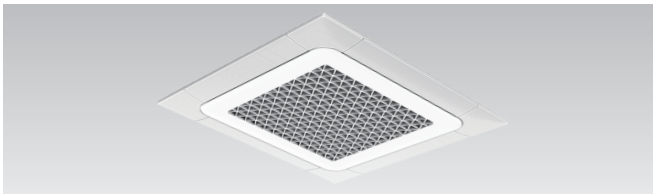
### Attractive panel and display

The Wind-Free 4Way Cassette (600 x 600) features a fashionable panel with a simple, beveled corner design. The rounded panel frame promotes a neat, tidy look for an aesthetic flair that blends perfectly with any ambience.



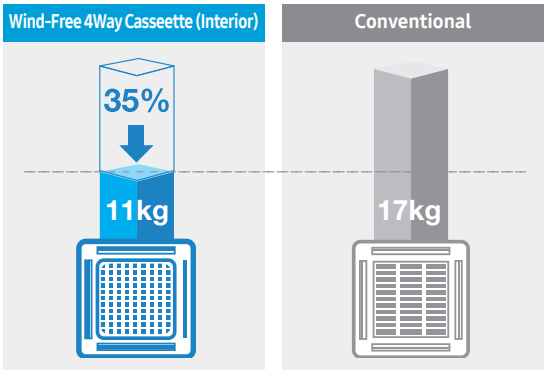
### Ultra-compact size

Samsung's Wind-Free 4Way Cassette (600 x 600) air conditioner can be installed on a single standard ceiling tile (600W x 600D) which helps minimize installation time and effort.



### Light, robust design

The Samsung Wind-Free 4Way Cassette (600 x 600) indoor unit is now lighter in weight at 11kg. It is the lightest indoor unit in the industry, about 35 percent lighter than our conventional products.




*Based on 3.5kW

# 1. Specification

## Wind-Free 4Way Cassette (600x600)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| System | Model Name | Indoor Unit | | | AC026NNNDKH/EU | AC035NNNDKH/EU | AC052NNNDKH/EU |
| | | Outdoor Unit | | | AC026MXADKH/EU | AC035MXADKH/EU | AC052MXADKH/EU |
| | Mode | | | - | HEAT PUMP | HEAT PUMP | HEAT PUMP |
| | Performance | Capacity | Cooling (Min/Std/Max) | kW | 1.00 / 2.60 / 3.40 | 1.00 / 3.50 / 4.00 | 1.30 / 5.00 / 5.90 |
| | | | | Btu/h | 3,400 / 8,900 / 11,600 | 3,400 / 11,900 / 13,600 | 4,400 / 17,100 / 20,100 |
| | | | Heating (Min/Std/Max) | kW | 0.98 / 3.40 / 4.10 | 1.00 / 4.00 / 4.80 | 1.30 / 5.50 / 7.50 |
| | | | | Btu/h | 3,300 / 11,600 / 14,000 | 3,400 / 13,600 / 16,400 | 4,400 / 18,800 / 25,600 |
| | Power | Power Input | Cooling (Min/Std/Max) | kW | 0.24 / 0.68 / 1.20 | 0.24 / 1.09 / 1.50 | 0.31 / 1.53 / 2.10 |
| | | | Heating (Min/Std/Max) | kW | 0.20 / 0.90 / 1.45 | 0.19 / 1.20 / 1.80 | 0.35 / 1.52 / 2.40 |
| | | Current Input | Cooling (Min/Std/Max) | A | 1.60 / 3.80 / 5.50 | 1.60 / 5.60 / 7.50 | 2.60 / 6.90 / 9.50 |
| | | | Heating (Min/Std/Max) | A | 1.30 / 4.80 / 7.00 | 1.30 / 5.80 / 10.50 | 2.90 / 6.90 / 11.00 |
| | | Current | MCA | A | 11 | 11 | 21 |
| | | | MFA | A | 12.5 | 12.5 | 25 |
| | Efficiency | EER | Cooling | W/W | 3.82 | 3.21 | 3.27 |
| | | COP | Heating | W/W | 3.78 | 3.33 | 3.62 |
| | | SEER (Cooling Energy Grade) | | W/W | 6.9 (A++) | 6.8 (A++) | 6.5 (A++) |
| | | SCOP (Heating Energy Grade) | | W/W | 4.3 (A+) | 4.3 (A+) | 4.1 (A+) |
| | | Pdesignh | | kW | 2.1 | 2.1 | 2.6 |
| | Piping Connections | Liquid Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 6.35 | 6.35 | 6.35 |
| | | | | Φ, inch | 1/4 | 1/4 | 1/4 |
| | | Gas Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 9.52 | 9.52 | 12.7 |
| | | | | Φ, inch | 3/8 | 3/8 | 1/2 |
| | | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes |
| | | Piping length (ODU-IDU) | Standard | m | 5 | 5 | 5 |
| | | | Max. | m | 20 | 20 | 30 |
| | | | Elevation | m | 15 | 15 | 20 |
| | | | Chargeless | m | 20 | 20 | 5 |
| | Wiring connections | Power Source Wire | | $mm^2$ | - | - | - |
| | | Transmission Cable | | $mm^2$ | Min. 0.75 | Min. 0.75 | Min. 0.75 |
| | | Remark | | - | F1, F2 | F1, F2 | F1, F2 |
| | | Power supply intake | | - | Both indoor and outdoor unit | Both indoor and outdoor unit | Both indoor and outdoor unit |
| | Refrigerant | Type | | - | R410A | R410A | R410A |
| | | Factory Charging | | kg / $tCO_2e$ | 1.05 / 2.19 | 1.05 / 2.19 | 1.3 / 2.71 |

# 1. Specification

## Wind-Free 4Way Cassette (600x600)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indoor Unit | Model Name | Indoor Unit | | | AC026NNNDKH/EU | AC035NNNDKH/EU | AC052NNNDKH/EU |
| | | Outdoor Unit | | | AC026MXADKH/EU | AC035MXADKH/EU | AC052MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Cu |
| | Fan | Type | | - | Turbo Fan | Turbo Fan | Turbo Fan |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | High/Mid/Low | CMM | 8.0 / 7.0 / 6.0 | 9.2 / 8.0 / 6.4 | 10.5 / 9.5 / 8.5 |
| | | | | l/s | 133.3 / 116.7 / 100.0 | 153.3 / 133.3 / 106.7 | 175.0 / 158.3 / 141.7 |
| | | External Static Pressure | Min/Std/Max | mmAq | - | - | - |
| | | | | Pa | - | - | - |
| | Fan Motor | Output | | W x n | 65 x 1 | 65 x 1 | 65 x 1 |
| | Drain | Drain Pipe | | Φ, mm | VP-25(OD32, ID25) | VP-25(OD32, ID25) | VP-25(OD32, ID25) |
| | Sound | Sound Pressure Level | High/Mid/Low/(Silent) | dB(A) | 31 / 28 / 25 | 34 / 30 / 25 | 39 / 34 / 29 |
| | | Sound Power Level | | dB(A) | 48 | 50 | 56 |
| | External Dimension | Net Weight | | kg | 11.4 | 11.4 | 11.6 |
| | | Shipping Weight | | kg | 13.7 | 13.7 | 14 |
| | | Net Dimensions (WxHxD) | | mm | 575 x 250 x 575 | 575 x 250 x 575 | 575 x 250 x 575 |
| | | Shipping Dimensions (WxHxD) | | mm | 623 x 298 x 653 | 623 x 298 x 653 | 623 x 298 x 653 |
| | Casing | Material | | - | Polypropylene | Polypropylene | Polypropylene |
| | Panel | Model Name | | - | PC4SUFMAN | PC4SUFMAN | PC4SUFMAN |
| | | Type | | - | Wind-Free Type | Wind-Free Type | Wind-Free Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | DA White | DA White | DA White |
| | | Net Weight | | kg | 2.7 | 2.7 | 2.7 |
| | | Shipping Weight | | kg | 4.0 | 4.0 | 4.0 |
| | | Net Dimensions (WxHxD) | | mm | 620 x 57 x 620 | 620 x 57 x 620 | 620 x 57 x 620 |
| | | Shipping Dimensions (WxHxD) | | mm | 670x120x660 | 670x120x660 | 670x120x660 |
| | Control System | Infrared remote control | | - | AR-EH03E | AR-EH03E | AR-EH03E |
| | Control System | Wired remote control | | - | MWR-WE13N | MWR-WE13N | MWR-WE13N |
| | Drain Pump | Drain Pump | | - | Included | Included | Included |
| | | Max. lifting Height / Displacement | | mm / Liter/h | 750/24 | 750/24 | 750/24 |
| | Additional Accessories | Drain Pump | External Model | - | - | - | - |
| | | | Internal Model | - | - | - | - |
| | | | Max. lifting Height / Displacement | mm / Liter/h | - | - | - |
| | | Air Filter | | - | Removable / Washable | Removable / Washable | Removable / Washable |
| | | Virus Doctor | | - | Option | Option | Option |

# 1. Specification

## Wind-Free 4Way Cassette (600x600)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outdoor Unit | Model Name | Indoor Unit | | | AC026NNNDKH/EU | AC035NNNDKH/EU | AC052NNNDKH/EU |
| | | Outdoor Unit | | | AC026MXADKH/EU | AC035MXADKH/EU | AC052MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | FMC |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Al |
| | | Fin Treatment | | - | Anti-Corrosion | Anti-Corrosion | Hybrid Coating |
| | Compressor | Model Name | | | UG9AJ3090FER | UG9AJ3090FER | UG9TK3150FE4 |
| | | Output | | kW | 0.83 | 0.83 | 1.42 |
| | | Oil | Type | - | POE | POE | POE |
| | | | Initial charge | cc | 320 | 320 | 500 |
| | Fan | Type | | - | Propeller | Propeller | Propeller |
| | | Discharge direction | | - | Front | Front | Front |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | | CMM | 29 | 30 | 40 |
| | | | | l/s | 483 | 500 | 667 |
| | Fan Motor | Type | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| | | Output | | W x n | 68 x 1 | 68 x 1 | 125 x 1 |
| | Sound | Sound Pressure Level | Cooling | dB(A) | 46 | 48 | 48 |
| | | | Heating | dB(A) | 47 | 48 | 48 |
| | | Sound Power Level | | dB(A) | 59 | 61 | 62 |
| | External Dimension | Net Weight | | kg | 32.8 | 32.8 | 43.8 |
| | | Shipping Weight | | kg | 35.8 | 35.8 | 47.5 |
| | | Net Dimensions (WxHxD) | | mm | 790 x 548 x 285 | 790 x 548 x 285 | 880 x 638 x 310 |
| | | Shipping Dimensions (WxHxD) | | mm | 926 x 640 x 384 | 926 x 640 x 384 | 1023 x 730 x 413 |
| | Casing | Material | Body | - | EGI Steel Plate | EGI Steel Plate | EGI Steel Plate |
| | Operating Temp. Range | Cooling | | ℃ | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 |
| | | Heating | | ℃ | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 |

### NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

# 1. Specification

## Wind-Free 4Way Cassette (600x600)

| | | | | | | |
|---|---|---|---|---|---|---|
| System | Model Name | Indoor Unit | | | AC060NNNDKH/EU | AC071NNNDKH/EU |
| | | Outdoor Unit | | | AC060MXADKH/EU | AC071MXADKH/EU |
| | Mode | | | - | HEAT PUMP | HEAT PUMP |
| | Performance | Capacity | Cooling (Min/Std/Max) | kW | 1.80 / 5.80 / 6.50 | 2.20 / 6.80 / 8.00 |
| | | | | Btu/h | 6,100 / 19,800 / 22,200 | 7,500 / 23,200 / 27,300 |
| | | | Heating (Min/Std/Max) | kW | 1.60 / 7.00 / 9.00 | 1.90 / 7.50 / 9.00 |
| | | | | Btu/h | 5,500 / 23,900 / 30,700 | 6,500 / 25,600 / 30,700 |
| | Power | Power Input | Cooling (Min/Std/Max) | kW | 0.38 / 2.15 / 2.60 | 0.35 / 2.72 / 3.95 |
| | | | Heating (Min/Std/Max) | kW | 0.35 / 2.32 / 3.60 | 0.35 / 2.80 / 3.95 |
| | | Current Input | Cooling (Min/Std/Max) | A | 1.90 / 9.30 / 11.50 | 2.00 / 11.80 / 17.00 |
| | | | Heating (Min/Std/Max) | A | 1.70 / 10.00 / 17.30 | 2.00 / 12.30 / 17.00 |
| | | Current | MCA | A | 21 | 21 |
| | | | MFA | A | 25 | 25 |
| | Efficiency | EER | Cooling | W/W | 2.70 | 2.50 |
| | | COP | Heating | W/W | 3.02 | 2.68 |
| | | SEER (Cooling Energy Grade) | | W/W | 6.2 (A++) | 6.0 (A+) |
| | | SCOP (Heating Energy Grade) | | W/W | 4.0 (A+) | 3.8 (A) |
| | | Pdesignh | | kW | 2.6 | 4 |
| | Piping Connections | Liquid Pipe | | Type | Flare connection | Flare connection |
| | | | | Φ, mm | 6.35 | 6.35 |
| | | | | Φ, inch | 1/4 | 1/4 |
| | | Gas Pipe | | Type | Flare connection | Flare connection |
| | | | | Φ, mm | 12.7 | 15.88 |
| | | | | Φ, inch | 1/2 | 5/8 |
| | | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes |
| | | Piping length (ODU-IDU) | Standard | m | 5 | 5 |
| | | | Max. | m | 30 | 50 |
| | | | Elevation | m | 20 | 30 |
| | | | Chargeless | m | 5 | 5 |
| | Wiring connections | Power Source Wire | | $mm^2$ | - | - |
| | | Transmission Cable | | $mm^2$ | Min. 0.75 | Min. 0.75 |
| | | Remark | | - | F1, F2 | F1, F2 |
| | | Power supply intake | | - | Both indoor and outdoor unit | Both indoor and outdoor unit |
| | Refrigerant | Type | | - | R410A | R410A |
| | | Factory Charging | | kg / $tCO_2e$ | 1.3 / 2.71 | 1.5 / 3.13 |

# 1. Specification

## Wind-Free 4Way Cassette (600x600)

| | | | | | | |
|---|---|---|---|---|---|---|
| Indoor Unit | Model Name | Indoor Unit | | | AC060NNNDKH/EU | AC071NNNDKH/EU |
| | | Outdoor Unit | | | AC060MXADKH/EU | AC071MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al |
| | | | Tube | - | Cu | Cu |
| | Fan | Type | | - | Turbo Fan | Turbo Fan |
| | | Quantity | | EA | 1 | 1 |
| | | Air Flow Rate | High/Mid/Low | CMM | 11.0 / 10.0 / 9.0 | 11.5 / 10.5 / 9.5 |
| | | | | l/s | 183.3 / 166.7 / 150.0 | 191.7 / 175.0 / 158.3 |
| | | External Static Pressure | Min/Std/Max | mmAq | - | - |
| | | | | Pa | - | - |
| | Fan Motor | Output | | W x n | 65 x 1 | 65 x 1 |
| | Drain | Drain Pipe | | Φ, mm | VP-25(OD32, ID25) | VP-25(OD32, ID25) |
| | Sound | Sound Pressure Level | High/Mid/Low/(Silent) | dB(A) | 41 / 37 / 32 | 42 / 39 / 36 |
| | | Sound Power Level | | dB(A) | 56 | 58 |
| | External Dimension | Net Weight | | kg | 11.6 | 11.8 |
| | | Shipping Weight | | kg | 14 | 14.2 |
| | | Net Dimensions (WxHxD) | | mm | 575 x 250 x 575 | 575 x 250 x 575 |
| | | Shipping Dimensions (WxHxD) | | mm | 623 x 298 x 653 | 623 x 298 x 653 |
| | Casing | Material | | - | Polypropylene | Polypropylene |
| | Panel | Model Name | | - | PC4SUFMAN | PC4SUFMAN |
| | | Type | | - | Wind-Free Type | Wind-Free Type |
| | | Material | | - | HIPS | HIPS |
| | | Color | | - | DA White | DA White |
| | | Net Weight | | kg | 2.7 | 2.7 |
| | | Shipping Weight | | kg | 4.0 | 4.0 |
| | | Net Dimensions (WxHxD) | | mm | 620 x 57 x 620 | 620 x 57 x 620 |
| | | Shipping Dimensions (WxHxD) | | mm | 670x120x660 | 670x120x660 |
| | Control System | Infrared remote control | | - | AR-EH03E | AR-EH03E |
| | Control System | Wired remote control | | - | MWR-WE13N | MWR-WE13N |
| | Drain Pump | Drain Pump | | - | Included | Included |
| | | Max. lifting Height / Displacement | | mm / Liter/h | 750/24 | 750/24 |
| | Additional Accessories | Drain Pump | External Model | - | - | - |
| | | | Internal Model | - | - | - |
| | | | Max. lifting Height / Displacement | mm / Liter/h | - | - |
| | | Air Filter | | - | Removable / Washable | Removable / Washable |
| | | Virus Doctor | | - | Option | Option |

# 1. Specification

## Wind-Free 4Way Cassette (600x600)

| | | | | | | |
|---|---|---|---|---|---|---|
| Outdoor Unit | Model Name | Indoor Unit | | | AC060NNNDKH/EU | AC071NNNDKH/EU |
| | | Outdoor Unit | | | AC060MXADKH/EU | AC071MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | FMC | FMC |
| | | Material | Fin | - | Al | Al |
| | | | Tube | - | Al | Al |
| | | Fin Treatment | | - | Hybrid Coating | Hybrid Coating |
| | Compressor | Model Name | | | UG9TK3150FE4 | UG4T200FUAE4 |
| | | Output | | kW | 1.42 | 1.79 |
| | | Oil | Type | - | POE | POE |
| | | | Initial charge | cc | 500 | 650 |
| | Fan | Type | | - | Propeller | Propeller |
| | | Discharge direction | | - | Front | Front |
| | | Quantity | | EA | 1 | 1 |
| | | Air Flow Rate | | CMM | 40 | 51 |
| | | | | l/s | 667 | 850 |
| | Fan Motor | Type | | - | BLDC Motor | BLDC Motor |
| | | Output | | W x n | 125 x 1 | 125 x 1 |
| | Sound | Sound Pressure Level | Cooling | dB(A) | 49 | 49 |
| | | | Heating | dB(A) | 49 | 51 |
| | | Sound Power Level | | dB(A) | 62 | 65 |
| | External Dimension | Net Weight | | kg | 43.8 | 53 |
| | | Shipping Weight | | kg | 47.5 | 57.2 |
| | | Net Dimensions (WxHxD) | | mm | 880 x 638 x 310 | 880 x 798 x 310 |
| | | Shipping Dimensions (WxHxD) | | mm | 1023 x 730 x 413 | 1023 x 911 x 413 |
| | Casing | Material | Body | - | EGI Steel Plate | EGI Steel Plate |
| | Operating Temp. Range | Cooling | | ℃ | -15 ~ 50 | -15 ~ 50 |
| | | Heating | | ℃ | -20 ~ 24 | -20 ~ 24 |

### NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

# 2. Summary Table

## Wind-Free 4Way Cassette (600x600)

### Performance Characteristics

| Model Code | Net Weight (kg) | | Capacity | | Fan Speed | Airflow (Cooling/Heating) (CMM) | Sound Pressure Level (dBA) | Sound Power Level (dBA) |
|---|---|---|---|---|---|---|---|---|
| | | | Cooling (kW) | Heating (kW) | | | | |
| AC026NNNDKH/EU | 11.4 | Max. | 3.4 | 4.1 | High | 8.0 / 10.0 | 31 | 48 |
| | | Std. | 2.6 | 3.4 | Mid | 7.0 / 9.0 | 28 | - |
| | | Min. | 1.0 | 0.98 | Low | 6.0 / 8.0 | 25 | - |
| AC035NNNDKH/EU | 11.4 | Max. | 4.0 | 4.8 | High | 9.2 / 10.4 | 34 | 50 |
| | | Std. | 3.5 | 4.0 | Mid | 8.0 / 9.0 | 30 | - |
| | | Min. | 1.0 | 1.0 | Low | 6.4 / 7.8 | 25 | - |
| AC052NNNDKH/EU | 11.6 | Max. | 5.9 | 7.5 | High | 10.5 / 10.5 | 39 | 56 |
| | | Std. | 5.0 | 5.5 | Mid | 9.5 / 9.5 | 34 | - |
| | | Min. | 1.3 | 1.3 | Low | 8.5 / 8.5 | 29 | - |
| AC060NNNDKH/EU | 11.6 | Max. | 6.5 | 9.0 | High | 11.0 / 11.0 | 41 | 56 |
| | | Std. | 5.8 | 7.0 | Mid | 10.0 / 10.0 | 37 | - |
| | | Min. | 1.8 | 1.6 | Low | 9.0 / 9.0 | 32 | - |
| AC071NNNDKH/EU | 11.8 | Max. | 8.0 | 9.0 | High | 11.5 / 11.5 | 42 | 58 |
| | | Std. | 6.8 | 7.5 | Mid | 10.5 / 10.5 | 39 | - |
| | | Min. | 2.2 | 1.9 | Low | 9.5 / 9.5 | 36 | - |

**NOTE**

- Sound data is based on cooling operation.

### Electric Characteristics

| Model | | Outdoor Unit | | | | Input Current (Amperes) | | | | Power Supply | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Unit | Outdoor Unit | Rated | Voltage range | | | Outdoor Unit | | Indoor Unit | Total | MCA(A) | MFA(A) |
| | | Hz | Volts | Min. | Max. | Cooling | Heating | | | | |
| AC026NNNDKH/EU | AC026MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 10 | 10 | 1 | 11 | 11 | 12.5 |
| AC035NNNDKH/EU | AC035MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 10 | 10 | 1 | 11 | 11 | 12.5 |
| AC052NNNDKH/EU | AC052MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |
| AC060NNNDKH/EU | AC060MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |
| AC071NNNDKH/EU | AC071MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |

**NOTE**

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

# 3. Capacity Table

## Wind-Free 4Way Cassette (600x600)

### (1) AC026NNNDKH/EU + AC026MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (℃, DB) | Indoor Temperature (℃, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 2.54 | 2.15 | 0.49 | 2.67 | 2.21 | 0.50 | 2.78 | 2.28 | 0.51 | 2.87 | 2.35 | 0.52 | 2.92 | 2.33 | 0.52 | 3.07 | 2.30 | 0.53 | 3.22 | 2.26 | 0.54 |
| 21 | 2.42 | 2.04 | 0.51 | 2.54 | 2.11 | 0.52 | 2.65 | 2.17 | 0.53 | 2.73 | 2.24 | 0.54 | 2.78 | 2.22 | 0.55 | 2.92 | 2.19 | 0.55 | 3.07 | 2.15 | 0.57 |
| 35 | 2.30 | 1.95 | 0.64 | 2.42 | 2.01 | 0.65 | 2.52 | 2.07 | 0.67 | 2.60 | 2.13 | 0.68 | 2.65 | 2.11 | 0.69 | 2.78 | 2.09 | 0.69 | 2.92 | 2.05 | 0.71 |
| 46 | 1.96 | 1.80 | 0.58 | 2.06 | 1.86 | 0.59 | 2.14 | 1.92 | 0.60 | 2.21 | 1.97 | 0.61 | 2.25 | 1.95 | 0.62 | 2.37 | 1.93 | 0.62 | 2.49 | 1.90 | 0.64 |
| 50 | 1.50 | 1.42 | 0.51 | 1.57 | 1.46 | 0.52 | 1.64 | 1.51 | 0.53 | 1.69 | 1.55 | 0.54 | 1.72 | 1.54 | 0.55 | 1.81 | 1.52 | 0.55 | 1.90 | 1.49 | 0.57 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (℃, DB) | Indoor Temperature (℃, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 2.39 | 1.19 | 2.37 | 1.18 | 2.35 | 1.17 | 2.32 | 1.16 | 2.30 | 1.15 | 2.28 | 1.14 |
| -15 | 3.02 | 1.38 | 2.99 | 1.36 | 2.96 | 1.35 | 2.93 | 1.34 | 2.90 | 1.32 | 2.87 | 1.31 |
| -5 | 3.40 | 1.29 | 3.37 | 1.27 | 3.33 | 1.26 | 3.30 | 1.25 | 3.27 | 1.23 | 3.23 | 1.22 |
| 0 | 3.54 | 1.10 | 3.50 | 1.09 | 3.47 | 1.08 | 3.43 | 1.07 | 3.40 | 1.06 | 3.36 | 1.05 |
| 7 | 3.47 | 0.92 | 3.43 | 0.91 | 3.40 | 0.90 | 3.37 | 0.89 | 3.33 | 0.88 | 3.30 | 0.87 |
| 24 | 4.51 | 1.06 | 4.46 | 1.05 | 4.42 | 1.04 | 4.38 | 1.02 | 4.33 | 1.01 | 4.29 | 1.00 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette (600x600)

### (2) AC035NNNDKH/EU+ AC035MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 3.41 | 2.68 | 0.78 | 3.59 | 2.76 | 0.80 | 3.74 | 2.84 | 0.81 | 3.86 | 2.93 | 0.83 | 3.94 | 2.90 | 0.84 | 4.13 | 2.87 | 0.84 | 4.34 | 2.82 | 0.86 |
| 21 | 3.25 | 2.55 | 0.82 | 3.42 | 2.63 | 0.84 | 3.56 | 2.71 | 0.85 | 3.68 | 2.79 | 0.87 | 3.75 | 2.77 | 0.88 | 3.94 | 2.74 | 0.89 | 4.13 | 2.68 | 0.91 |
| 35 | 3.10 | 2.43 | 1.03 | 3.26 | 2.50 | 1.05 | 3.40 | 2.58 | 1.07 | 3.50 | 2.66 | 1.09 | 3.57 | 2.63 | 1.10 | 3.75 | 2.61 | 1.11 | 3.94 | 2.55 | 1.13 |
| 46 | 2.63 | 2.26 | 0.92 | 2.77 | 2.33 | 0.94 | 2.89 | 2.40 | 0.96 | 2.98 | 2.48 | 0.98 | 3.03 | 2.45 | 0.99 | 3.19 | 2.43 | 1.00 | 3.35 | 2.38 | 1.02 |
| 50 | 2.01 | 1.79 | 0.82 | 2.12 | 1.84 | 0.84 | 2.21 | 1.90 | 0.85 | 2.28 | 1.96 | 0.87 | 2.32 | 1.94 | 0.88 | 2.44 | 1.92 | 0.89 | 2.56 | 1.88 | 0.91 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 2.82 | 1.59 | 2.79 | 1.58 | 2.76 | 1.56 | 2.73 | 1.54 | 2.71 | 1.53 | 2.68 | 1.51 |
| -15 | 3.55 | 1.84 | 3.51 | 1.82 | 3.48 | 1.80 | 3.45 | 1.78 | 3.41 | 1.76 | 3.38 | 1.75 |
| -5 | 4.00 | 1.71 | 3.96 | 1.70 | 3.92 | 1.68 | 3.88 | 1.66 | 3.84 | 1.65 | 3.80 | 1.63 |
| 0 | 4.16 | 1.47 | 4.12 | 1.45 | 4.08 | 1.44 | 4.04 | 1.43 | 4.00 | 1.41 | 3.96 | 1.40 |
| 7 | 4.08 | 1.22 | 4.04 | 1.21 | 4.00 | 1.20 | 3.96 | 1.19 | 3.92 | 1.18 | 3.88 | 1.16 |
| 24 | 5.30 | 1.41 | 5.25 | 1.39 | 5.20 | 1.38 | 5.15 | 1.37 | 5.10 | 1.35 | 5.05 | 1.34 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette (600x600)

### (3) AC052NNNDKH/EU + AC052MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 4.88 | 3.72 | 1.09 | 5.13 | 3.84 | 1.12 | 5.35 | 3.96 | 1.14 | 5.51 | 4.08 | 1.16 | 5.62 | 4.04 | 1.17 | 5.90 | 4.00 | 1.19 | 6.20 | 3.92 | 1.21 |
| 21 | 4.64 | 3.55 | 1.15 | 4.89 | 3.66 | 1.18 | 5.09 | 3.77 | 1.20 | 5.25 | 3.89 | 1.22 | 5.36 | 3.85 | 1.24 | 5.62 | 3.81 | 1.25 | 5.90 | 3.73 | 1.27 |
| 35 | 4.42 | 3.38 | 1.44 | 4.66 | 3.48 | 1.47 | 4.85 | 3.59 | 1.50 | 5.00 | 3.70 | 1.53 | 5.10 | 3.66 | 1.55 | 5.36 | 3.63 | 1.56 | 5.62 | 3.55 | 1.59 |
| 46 | 3.76 | 3.15 | 1.30 | 3.96 | 3.25 | 1.32 | 4.12 | 3.35 | 1.35 | 4.25 | 3.46 | 1.38 | 4.34 | 3.42 | 1.39 | 4.55 | 3.39 | 1.40 | 4.78 | 3.32 | 1.43 |
| 50 | 2.88 | 2.49 | 1.15 | 3.03 | 2.57 | 1.18 | 3.15 | 2.65 | 1.20 | 3.25 | 2.73 | 1.22 | 3.32 | 2.70 | 1.24 | 3.48 | 2.68 | 1.25 | 3.65 | 2.62 | 1.27 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 3.87 | 2.02 | 3.83 | 2.00 | 3.80 | 1.98 | 3.76 | 1.96 | 3.72 | 1.94 | 3.68 | 1.92 |
| -15 | 4.88 | 2.33 | 4.83 | 2.30 | 4.79 | 2.28 | 4.74 | 2.26 | 4.69 | 2.23 | 4.64 | 2.21 |
| -5 | 5.50 | 2.17 | 5.44 | 2.15 | 5.39 | 2.13 | 5.34 | 2.11 | 5.28 | 2.09 | 5.23 | 2.06 |
| 0 | 5.72 | 1.86 | 5.67 | 1.84 | 5.61 | 1.82 | 5.55 | 1.81 | 5.50 | 1.79 | 5.44 | 1.77 |
| 7 | 5.61 | 1.55 | 5.56 | 1.54 | 5.50 | 1.52 | 5.45 | 1.50 | 5.39 | 1.49 | 5.34 | 1.47 |
| 24 | 7.29 | 1.78 | 7.22 | 1.77 | 7.15 | 1.75 | 7.08 | 1.73 | 7.01 | 1.71 | 6.94 | 1.70 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette (600x600)

### (4) AC060NNNDKH/EU+ AC060MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 5.66 | 4.09 | 1.54 | 5.95 | 4.21 | 1.57 | 6.20 | 4.34 | 1.60 | 6.39 | 4.48 | 1.63 | 6.52 | 4.43 | 1.65 | 6.85 | 4.39 | 1.67 | 7.19 | 4.30 | 1.70 |
| 21 | 5.39 | 3.89 | 1.62 | 5.67 | 4.01 | 1.65 | 5.91 | 4.14 | 1.69 | 6.09 | 4.26 | 1.72 | 6.21 | 4.22 | 1.74 | 6.52 | 4.18 | 1.75 | 6.85 | 4.09 | 1.79 |
| 35 | 5.13 | 3.71 | 2.02 | 5.40 | 3.82 | 2.06 | 5.63 | 3.94 | 2.11 | 5.80 | 4.06 | 2.15 | 5.92 | 4.02 | 2.17 | 6.21 | 3.98 | 2.19 | 6.52 | 3.90 | 2.24 |
| 46 | 4.36 | 3.61 | 1.82 | 4.59 | 3.72 | 1.86 | 4.78 | 3.84 | 1.90 | 4.93 | 3.96 | 1.94 | 5.03 | 3.92 | 1.95 | 5.28 | 3.88 | 1.97 | 5.54 | 3.80 | 2.01 |
| 50 | 3.34 | 2.89 | 1.62 | 3.51 | 2.98 | 1.65 | 3.66 | 3.07 | 1.69 | 3.77 | 3.17 | 1.72 | 3.85 | 3.14 | 1.74 | 4.04 | 3.10 | 1.75 | 4.24 | 3.04 | 1.79 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 4.93 | 3.08 | 4.88 | 3.05 | 4.83 | 3.02 | 4.78 | 2.99 | 4.73 | 2.96 | 4.69 | 2.93 |
| -15 | 6.21 | 3.55 | 6.15 | 3.51 | 6.09 | 3.48 | 6.03 | 3.45 | 5.97 | 3.41 | 5.91 | 3.38 |
| -5 | 7.00 | 3.31 | 6.93 | 3.28 | 6.86 | 3.25 | 6.79 | 3.22 | 6.72 | 3.18 | 6.66 | 3.15 |
| 0 | 7.28 | 2.84 | 7.21 | 2.81 | 7.14 | 2.78 | 7.07 | 2.76 | 7.00 | 2.73 | 6.93 | 2.70 |
| 7 | 7.14 | 2.37 | 7.07 | 2.34 | 7.00 | 2.32 | 6.93 | 2.30 | 6.86 | 2.27 | 6.79 | 2.25 |
| 24 | 9.28 | 2.72 | 9.19 | 2.69 | 9.10 | 2.67 | 9.01 | 2.64 | 8.92 | 2.61 | 8.83 | 2.59 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette (600x600)

### (5) AC071NNNDKH/EU + AC071MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 6.63 | 4.58 | 1.95 | 6.98 | 4.73 | 1.99 | 7.27 | 4.87 | 2.03 | 7.50 | 5.02 | 2.07 | 7.65 | 4.97 | 2.09 | 8.03 | 4.92 | 2.11 | 8.43 | 4.82 | 2.15 |
| 21 | 6.32 | 4.37 | 2.05 | 6.65 | 4.50 | 2.09 | 6.93 | 4.64 | 2.13 | 7.14 | 4.78 | 2.18 | 7.28 | 4.74 | 2.20 | 7.65 | 4.69 | 2.22 | 8.03 | 4.59 | 2.26 |
| 35 | 6.02 | 4.16 | 2.56 | 6.33 | 4.29 | 2.61 | 6.60 | 4.42 | 2.67 | 6.80 | 4.56 | 2.72 | 6.94 | 4.51 | 2.75 | 7.28 | 4.47 | 2.77 | 7.65 | 4.38 | 2.83 |
| 46 | 5.11 | 3.92 | 2.30 | 5.38 | 4.04 | 2.35 | 5.61 | 4.17 | 2.40 | 5.78 | 4.30 | 2.45 | 5.90 | 4.25 | 2.47 | 6.19 | 4.21 | 2.50 | 6.50 | 4.13 | 2.55 |
| 50 | 3.91 | 3.11 | 2.05 | 4.12 | 3.20 | 2.09 | 4.29 | 3.30 | 2.13 | 4.42 | 3.40 | 2.18 | 4.51 | 3.37 | 2.20 | 4.73 | 3.34 | 2.22 | 4.97 | 3.27 | 2.26 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 5.28 | 3.71 | 5.23 | 3.68 | 5.18 | 3.64 | 5.12 | 3.60 | 5.07 | 3.57 | 5.02 | 3.53 |
| -15 | 6.66 | 4.28 | 6.59 | 4.24 | 6.53 | 4.20 | 6.46 | 4.16 | 6.40 | 4.12 | 6.33 | 4.08 |
| -5 | 7.50 | 4.00 | 7.42 | 3.96 | 7.35 | 3.92 | 7.28 | 3.88 | 7.20 | 3.84 | 7.13 | 3.80 |
| 0 | 7.80 | 3.43 | 7.73 | 3.39 | 7.65 | 3.36 | 7.57 | 3.33 | 7.50 | 3.29 | 7.42 | 3.26 |
| 7 | 7.65 | 2.86 | 7.58 | 2.83 | 7.50 | 2.80 | 7.43 | 2.77 | 7.35 | 2.74 | 7.28 | 2.72 |
| 24 | 9.95 | 3.28 | 9.85 | 3.25 | 9.75 | 3.22 | 9.65 | 3.19 | 9.56 | 3.16 | 9.46 | 3.12 |

**NOTE**

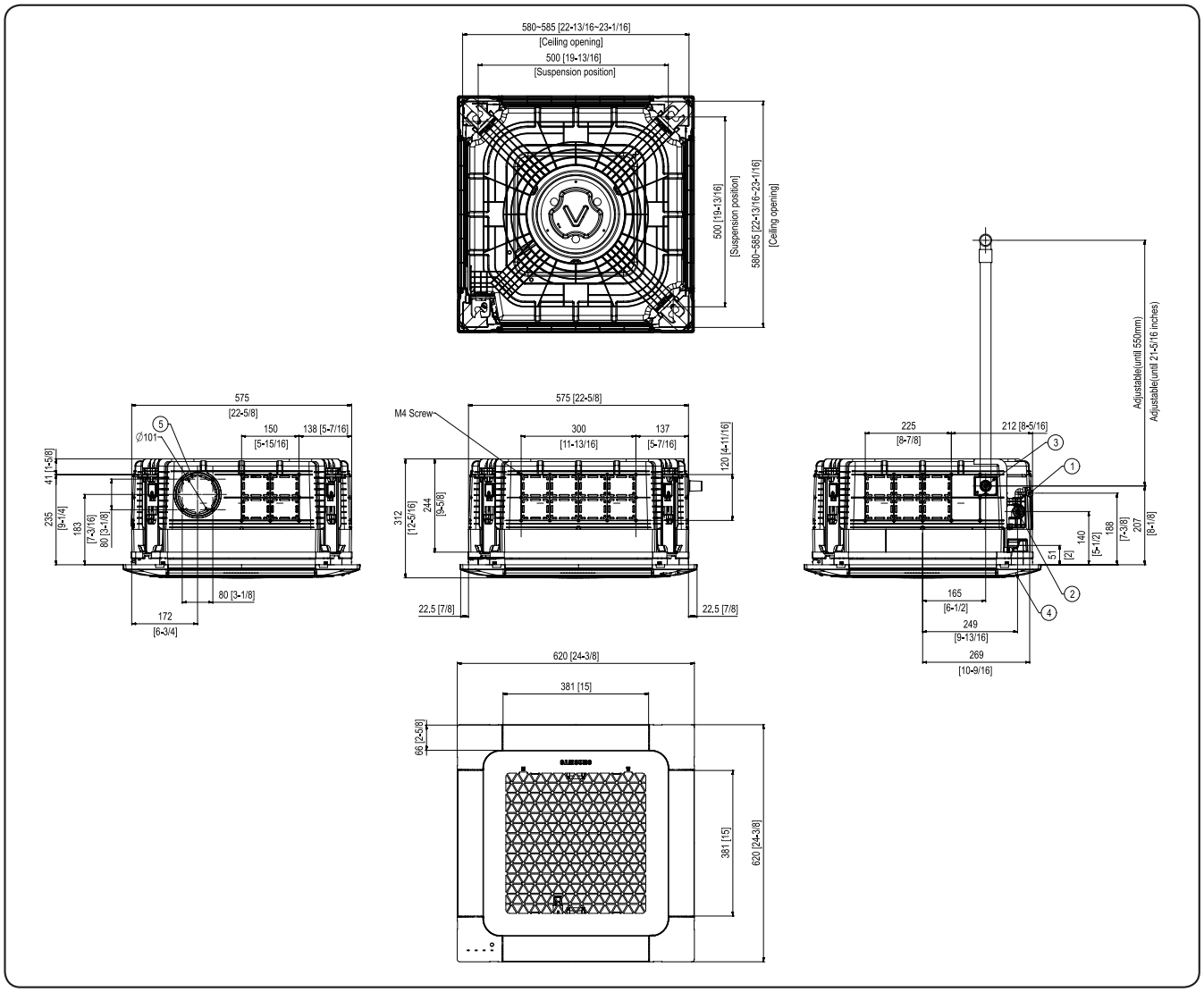
- The performance table shows the average value of each conditions.

# 4. Dimensional Drawing

## Wind-Free 4Way Cassette (600x600)

### AC026/035/052/060/071NNNDKH/EU

Units : mm [inches]




| No. | Name | Description | | |
|---|---|---|---|---|
| | | AC026NNNDKH/EU | AC052NNNDKH/EU | AC071NNNDKH/EU |
| | | AC035NNNDKH/EU | AC060NNNDKH/EU | |
| 1 | Liquid pipe connection | Φ6.35(1/4) | | |
| 2 | Gas pipe connection | Φ9.52(3/8) | Φ12.7(1/2) | Φ15.88(3/8) |
| 3 | Drain pipe connection | VP-25(OD32, ID25) | | |
| 4 | Power supply & Communication wiring conduit | | | |
| 5 | Fresh air intake knockout hole | Φ10[4] , Use M4 Screw | | |

**NOTE**

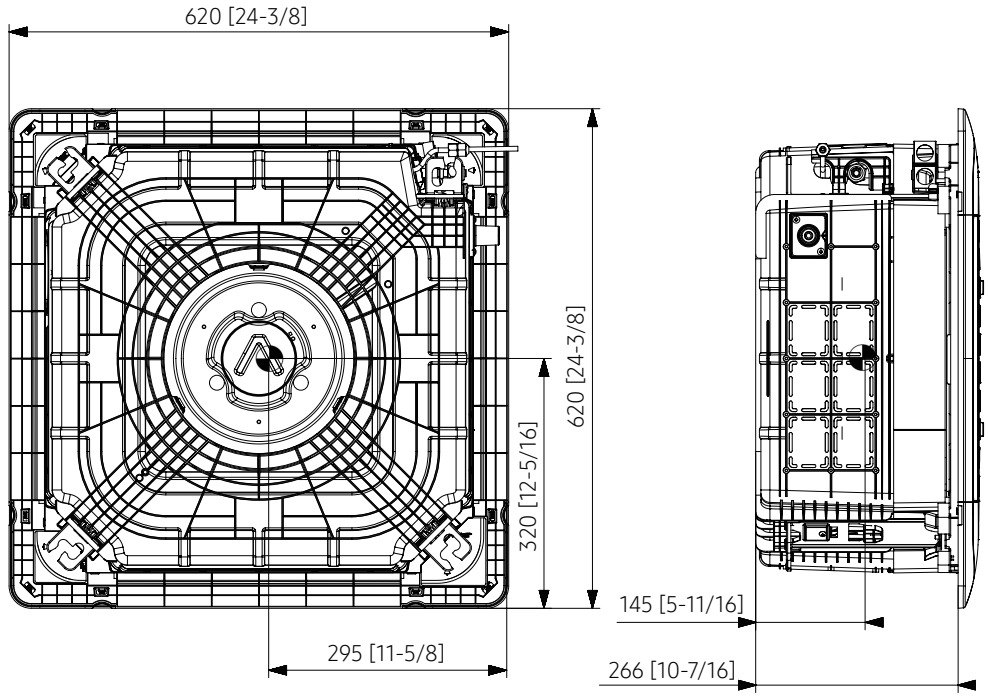
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

# 5. Center of Gravity

## Wind-Free 4Way Cassette (600x600)

### AC026/035/052/060/071NNNDKH/EU

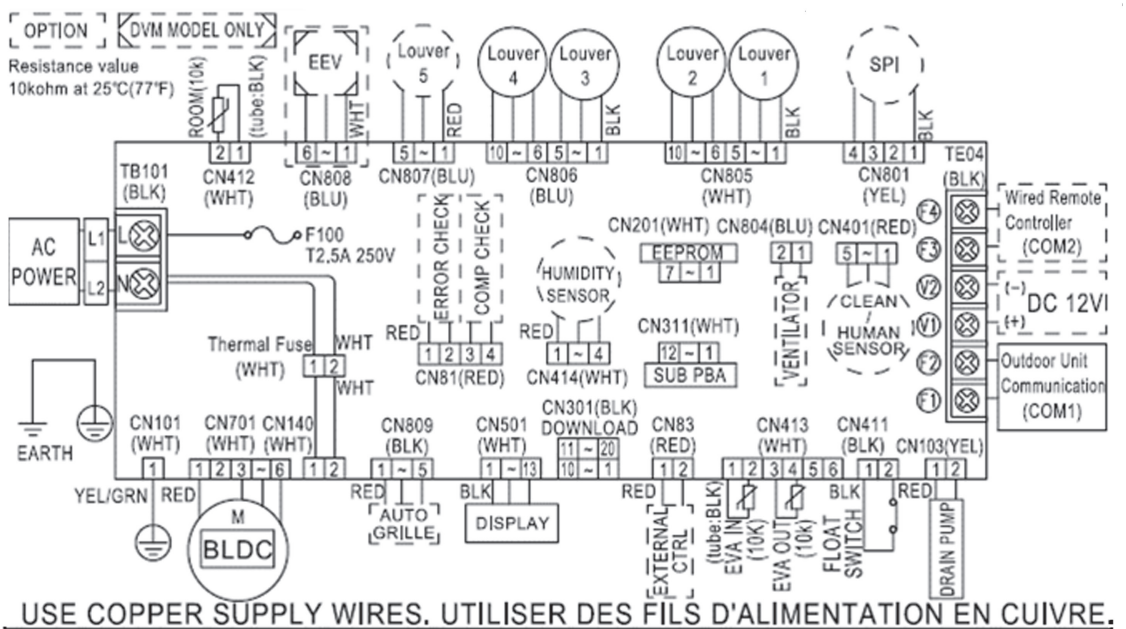
Units : mm [inches]



# 6. Electrical Wiring Diagram

## Wind-Free 4Way Cassette (600x600)

### AC026/035/052/060/071NNNDKH/EU




USE COPPER SUPPLY WIRES. UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

| LED LAMP DISPLAY | | | | LED DISPLAY FOR ERROR DETECTION |
|---|---|---|---|---|
| OPERATION | DEFROST | TIMER | FILTER | ● ON ◑ FLICKERING ×OFF |
| × | ◑ | × | × | Error of room temperature sensor in the indoor unit(open/short) |
| ◑ | ◑ | × | × | Error of eva in,out temperature sensor in the indoor unit(open/short) |
| × | × | ◑ | × | Error of fan motor in the indoor unit |
| ◑ | × | ◑ | × | Error of outdoor sensor(Outdoor temperature/cond/discharge) |
| × | ◑ | ◑ | × | No communication for 2 minutes between indoor and outdoor unit |
| × | ◑ | ◑ | ◑ | Error of outdoor unit/Self-diagnosis (Check error code at outdoor unit's or solution display) |
| × | × | ◑ | ◑ | Detection of the float switch |
| ◑ | ◑ | ◑ | ◑ | EEPROM error/EEPROM option error |
| ◑ | × | × | ◑ | MDS (Motion Detecting Sensor) Error |
| ◑ | ◑ | × | ◑ | No match between outdoor and indoor unit |
| ◑ | × | ◑ | ◑ | High Pressure Blockage Error (Only CAC Model) |

| | | | | | |
|---|---|---|---|---|---|
| SUB PBA | Printed Circuit Board(SUB) | SPI | S-Plasma ion | ROOM(10K) | Thermistor ROOM OUT(10K) |
| M-BLDC | BLDC Motor | EEV | Electronic Expansion Valve | EVA-IN(10K) | Thermistor EVA IN(10K) |
| | | EXT_CONTROL | EXTERNAL_CONTROL | EVA-OUT(10K) | Thermistor EVA OUT(10K) |

### NOTE

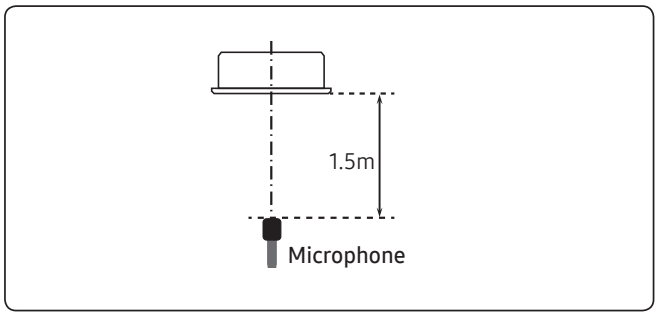
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ⊏⊐⊏⊐ : connector, N : The wire quantity

# 7. Sound Data

## Wind-Free 4Way Cassette (600x600)

### Sound Pressure level

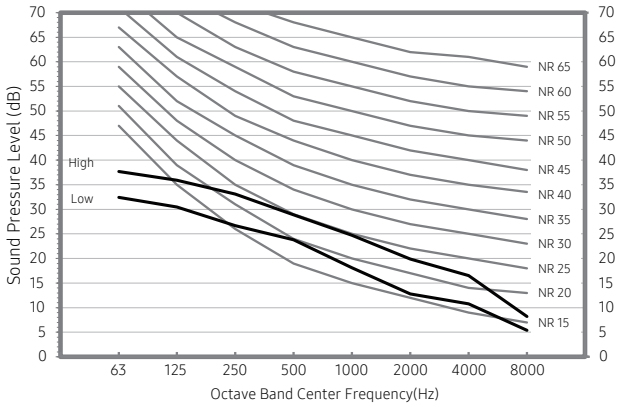
Unit: dB(A)



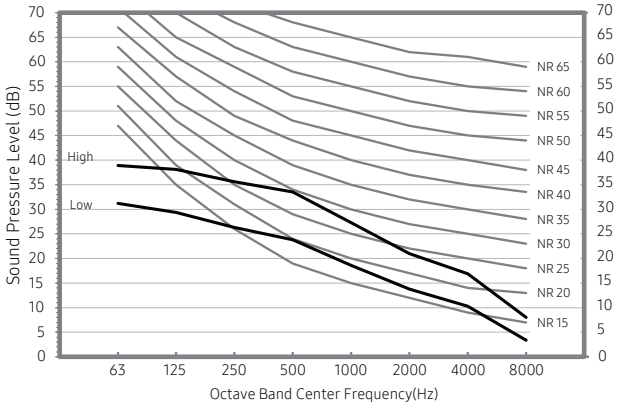

| Model | High | MID | LOW |
|---|---|---|---|
| AC026NNNDKH/EU | 31 | 28 | 25 |
| AC035NNNDKH/EU | 34 | 30 | 25 |
| AC052NNNDKH/EU | 39 | 34 | 29 |
| AC060NNNDKH/EU | 41 | 37 | 32 |

- NR Curve

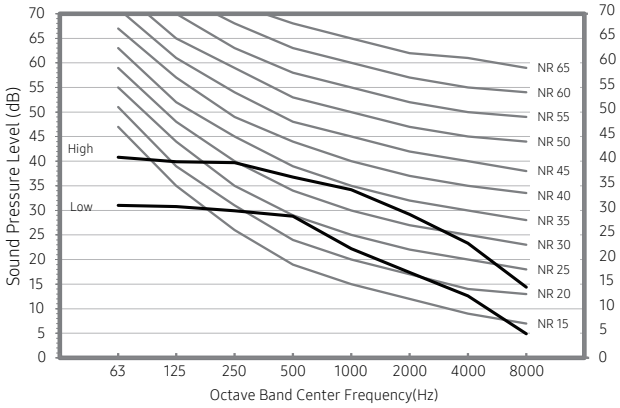
1) AC026NNNDKH/EU



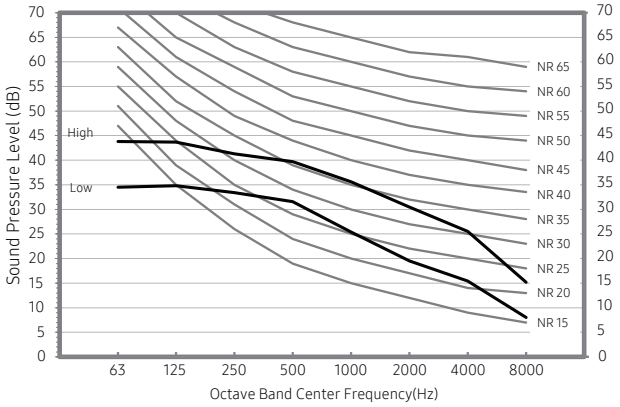

2) AC035NNNDKH/EU




3) AC052NNNDKH/EU




4) AC060NNNDKH/EU




**NOTE**

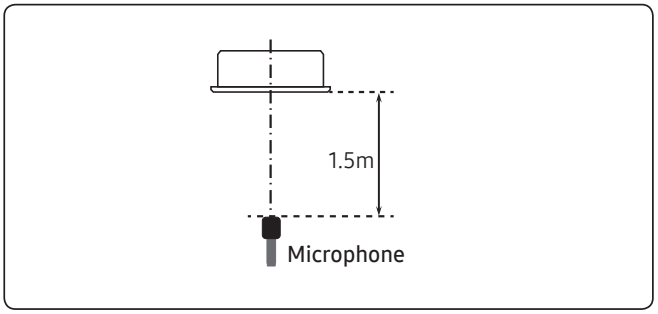
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 7. Sound Data

## Wind-Free 4Way Cassette (600x600)

### Sound Pressure level

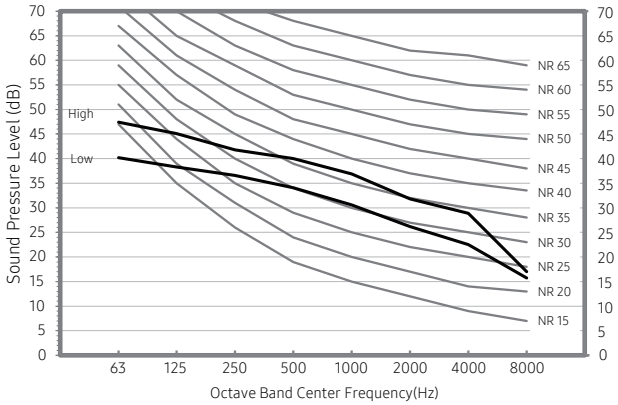
Unit: dB(A)




| Model | High | MID | LOW |
|---|---|---|---|
| AC071NNNDKH/EU | 42 | 39 | 36 |

- NR Curve

  5) AC071NNNDKH/EU




**NOTE**

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 7. Sound Data

## Wind-Free 4Way Cassette (600x600)

### Sound Power level

**NOTE**

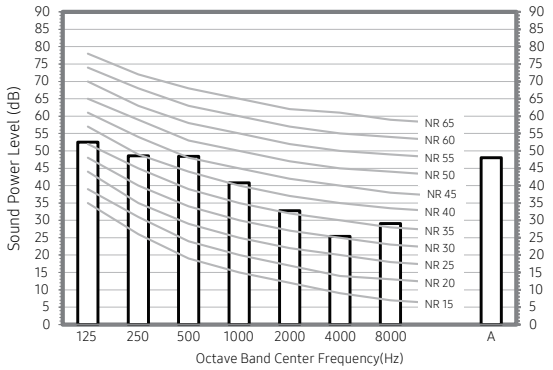
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

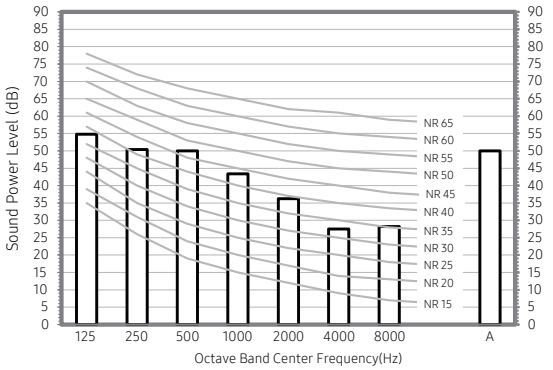
| Model | Power |
|---|---|
| AC026NNNDKH/EU | 48 |
| AC035NNNDKH/EU | 50 |
| AC052NNNDKH/EU | 56 |
| AC060NNNDKH/EU | 56 |
| AC071NNNDKH/EU | 58 |

- NR Curve

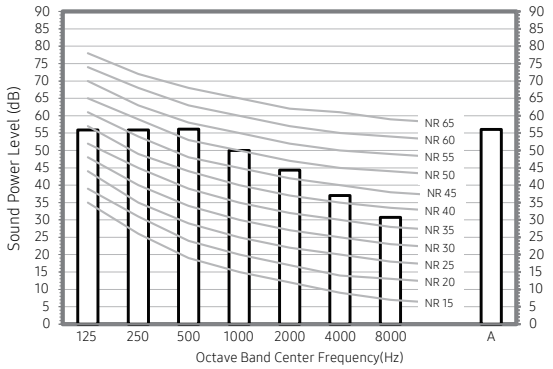
1) AC026NNNDKH/EU



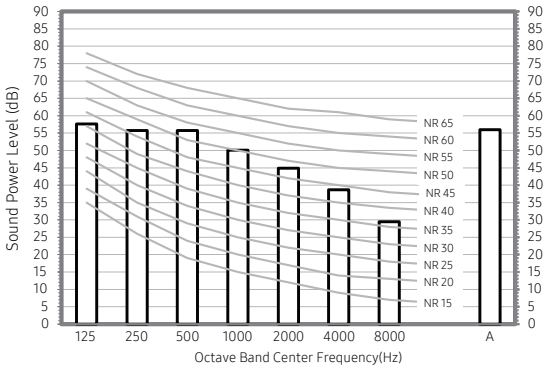

2) AC035NNNDKH/EU



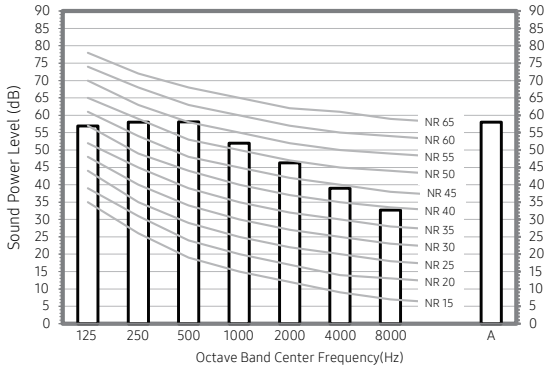

3) AC052NNNDKH/EU




4) AC060NNNDKH/EU




5) AC071NNNDKH/EU



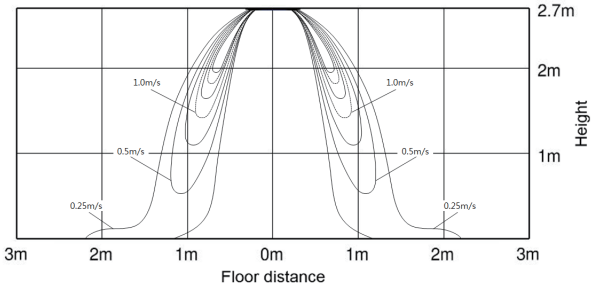
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette (600x600)

### AC026NNNDKH/EU

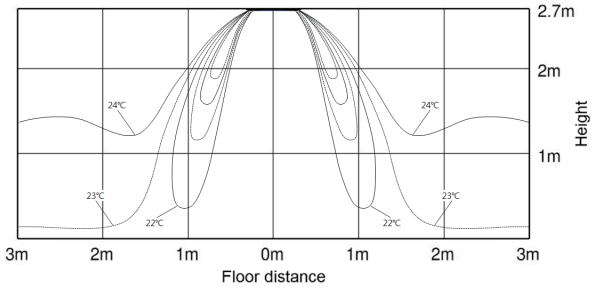
- Cooling Air Velocity distribution

  (Discharge angle : 43 degree)



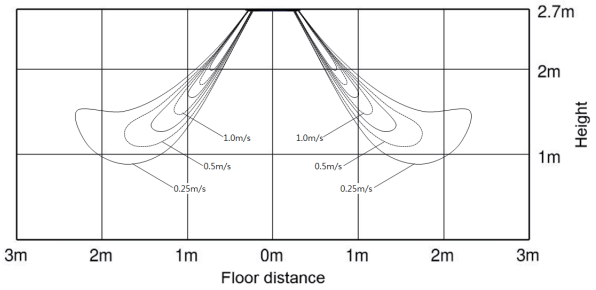

- Cooling temperature distribution

  (Discharge angle : 43 degree)



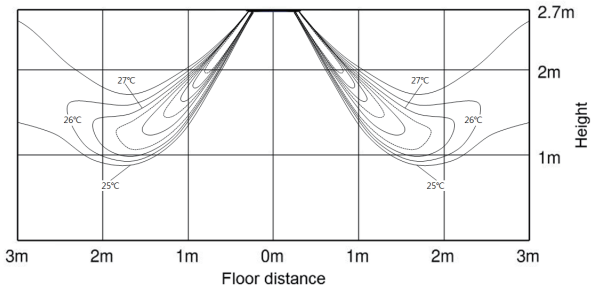

- Heating Air Velocity distribution

  (Discharge angle : 50 degree)




- Heating temperature distribution

  (Discharge angle : 50 degree)



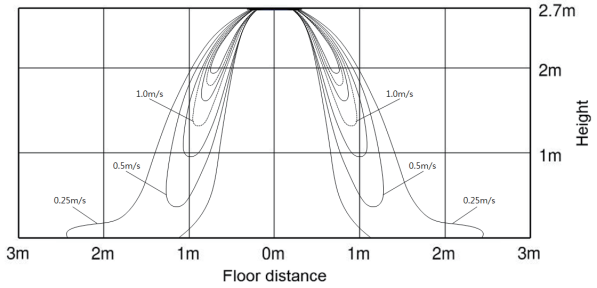
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette (600x600)

### AC035NNNDKH/EU

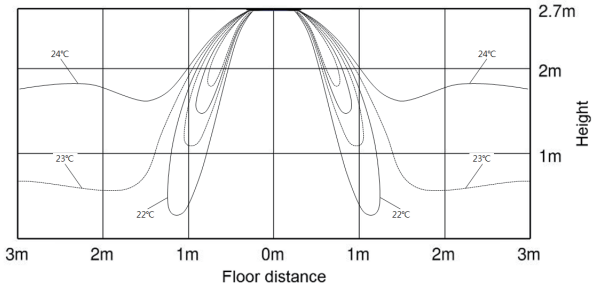
- Cooling Air Velocity distribution

  (Discharge angle : 43 degree)



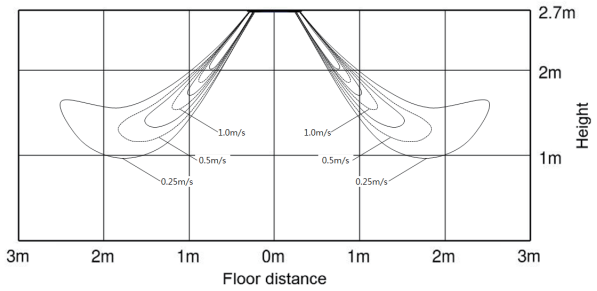

- Cooling temperature distribution

  (Discharge angle : 43 degree)



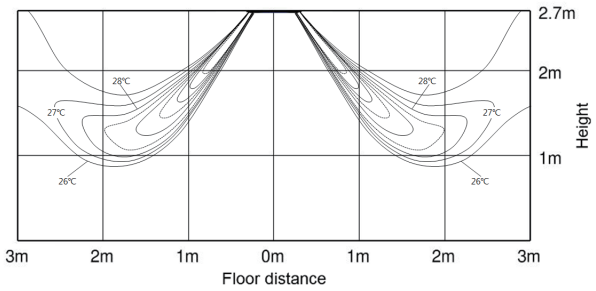

- Heating Air Velocity distribution

  (Discharge angle : 50 degree)




- Heating temperature distribution

  (Discharge angle : 50 degree)



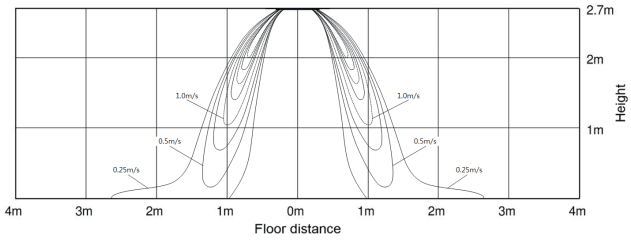
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette (600x600)

### AC052NNNDKH/EU

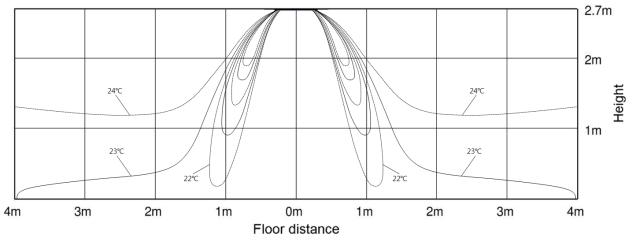
- Cooling Air Velocity distribution

  (Discharge angle : 43 degree)



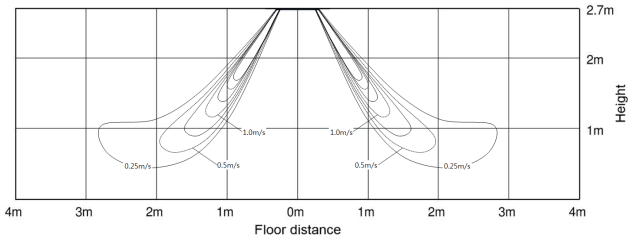

- Cooling temperature distribution

  (Discharge angle : 43 degree)



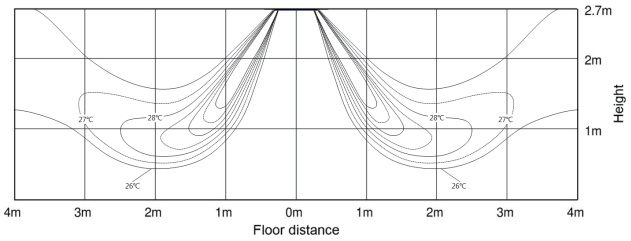

- Heating Air Velocity distribution

  (Discharge angle : 50 degree)




- Heating temperature distribution

  (Discharge angle : 50 degree)



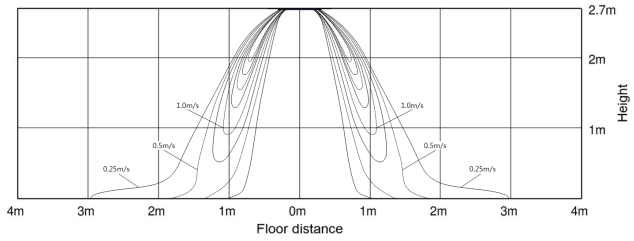
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette (600x600)

### AC060NNNDKH/EU

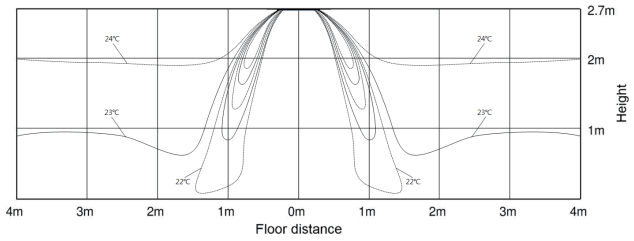
- Cooling Air Velocity distribution

  (Discharge angle : 43 degree)



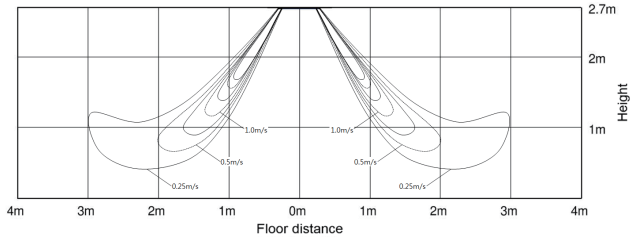

- Cooling temperature distribution

  (Discharge angle : 43 degree)



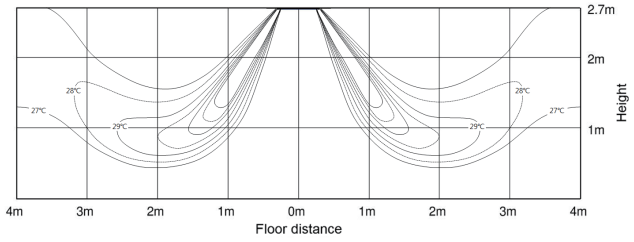

- Heating Air Velocity distribution

  (Discharge angle : 50 degree)




- Heating temperature distribution

  (Discharge angle : 50 degree)



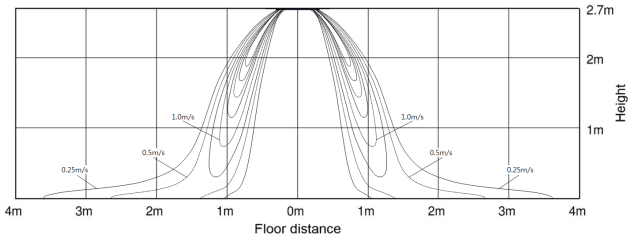
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette (600x600)

### AC071NNNDKH/EU

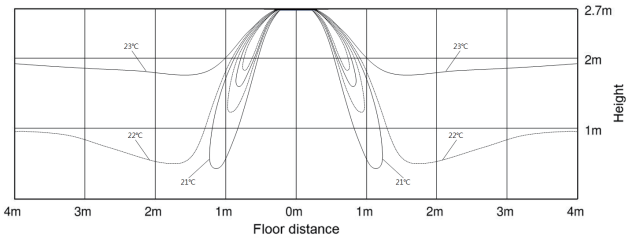
- Cooling Air Velocity distribution

  (Discharge angle : 43 degree)



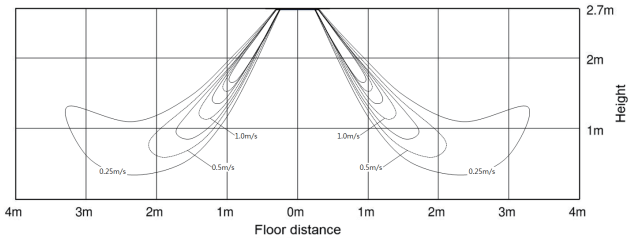

- Cooling temperature distribution

  (Discharge angle : 43 degree)



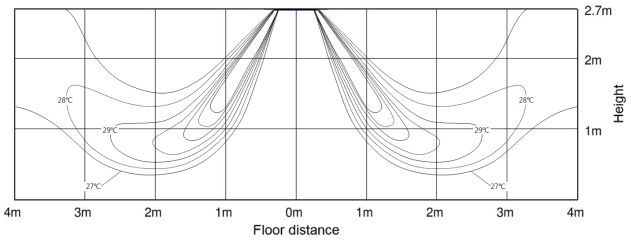

- Heating Air Velocity distribution

  (Discharge angle : 50 degree)




- Heating temperature distribution

  (Discharge angle : 50 degree)



# Wind-Free 4Way Cassette

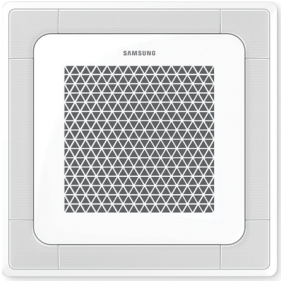

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# Features & Benefits

## Wind-Free 4Way Cassette

### Stage a beautiful yet comfortable environment

With its newly improved design, Wind-Free 4Way Cassette supports a clean, aesthetically appealing atmosphere and adds a sense of sophistication to work and living spaces. Not only is this unit attractively designed, but it also uses advanced technologies to optimize comfort in any environment.



The Samsung Wind-Free 4Way Cassette indoor air conditioning system delivers polish, comfort and efficiency with features such as:

- **Stylishly clean design.** Add panache to interior spaces with a choice of clean, streamlined panel patterns in a lightweight build.
- **Robust operation.** Control the atmosphere perfectly with an advanced design for superior air flow and cooling/heating performance.
- **Low maintenance and simple installation.** Ease installation and minimize maintenance with a detachable, no-drip design.

## Wind-Free 4Way Cassette – Stylishly clean design

### Aesthetic panel and display

Wind-Free 4Way Cassette offers two different pattern designs forthe panel. The simple display design with rounded corners adds a chic sophistication to the interior.

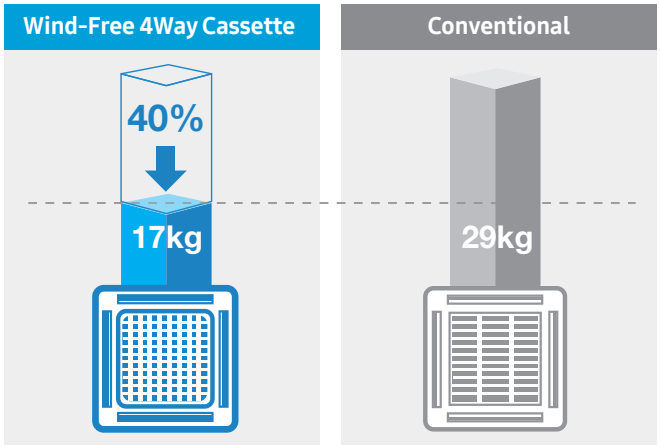



### Neat and clean design

The indoor Wind-Free 4Way Cassette boasts a smart design that promotes a neat and clean look. The completely hermetic blade structure keeps the indoor unit clean by preventing dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight when the blade is shut, thus improving the unit's appearance.

### Lightweight build

The Samsung Wind-Free 4Way Cassette indoor unit is now lighter in weight at 17 kg. It is one of the lightest indoor units in the industry, about 40 percent lighter than conventional products.




*Based on 10kW

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| System | Model Name | Indoor Unit | | | AC052NN4DKH/EU | AC071NN4DKH/EU | AC090NN4DKH/EU |
| | | Outdoor Unit | | | AC052MXADKH/EU | AC071MXADKH/EU | AC090MXADKH/EU |
| | Mode | | | - | HEAT PUMP | HEAT PUMP | HEAT PUMP |
| | Performance | Capacity | Cooling (Min/Std/Max) | kW | 1.00 / 5.00 / 6.00 | 2.20 / 7.10 / 8.00 | 3.00 / 9.00 / 11.30 |
| | | | | Btu/h | 3,400 / 17,100 / 20,500 | 7,500 / 24,200 / 27,300 | 10,200 / 30,700 / 38,600 |
| | | | Heating (Min/Std/Max) | kW | 1.00 / 6.00 / 7.00 | 1.90 / 8.00 / 9.00 | 2.20 / 10.00 / 13.90 |
| | | | | Btu/h | 3,400 / 20,500 / 23,900 | 6,500 / 27,300 / 30,700 | 7,500 / 34,100 / 47,400 |
| | Power | Power Input | Cooling (Min/Std/Max) | kW | 0.33 / 1.44 / 2.10 | 0.35 / 2.53 / 3.95 | 0.60 / 2.75 / 4.46 |
| | | | Heating (Min/Std/Max) | kW | 0.25 / 1.49 / 1.90 | 0.35 / 2.40 / 3.95 | 0.46 / 2.70 / 5.20 |
| | | Current Input | Cooling (Min/Std/Max) | A | 1.50 / 6.50 / 9.50 | 2.00 / 11.20 / 17.00 | 3.00 / 12.00 / 19.40 |
| | | | Heating (Min/Std/Max) | A | 1.50 / 6.80 / 8.60 | 2.00 / 10.70 / 17.00 | 2.50 / 11.60 / 22.70 |
| | | Current | MCA | A | 21 | 21 | 25 |
| | | | MFA | A | 25 | 25 | 30 |
| | Efficiency | EER | Cooling | W/W | 3.47 | 2.81 | 3.27 |
| | | COP | Heating | W/W | 4.03 | 3.33 | 3.70 |
| | | SEER (Cooling Energy Grade) | | W/W | 6.9 (A++) | 6.2 (A++) | 6.8 (A++) |
| | | SCOP (Heating Energy Grade) | | W/W | 4.3 (A+) | 4.1 (A+) | 4.3 (A+) |
| | | Pdesignh | | kW | 2.6 | 4.5 | 6.3 |
| | Piping Connections | Liquid Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 6.35 | 6.35 | 9.52 |
| | | | | Φ, inch | 1/4 | 1/4 | 3/8 |
| | | Gas Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 12.7 | 15.88 | 15.88 |
| | | | | Φ, inch | 1/2 | 5/8 | 5/8 |
| | | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes |
| | | Piping length (ODU-IDU) | Standard | m | 5 | 5 | 5 |
| | | | Max. | m | 30 | 50 | 50 |
| | | | Elevation | m | 20 | 30 | 30 |
| | | | Chargeless | m | 5 | 5 | 30 |
| | Wiring connections | Power Source Wire | | $mm^2$ | - | - | - |
| | | Transmission Cable | | $mm^2$ | Min. 0.75 | Min. 0.75 | Min. 0.75 |
| | | Remark | | - | F1, F2 | F1, F2 | F1, F2 |
| | | Power supply intake | | - | Both indoor and outdoor unit | Both indoor and outdoor unit | Both indoor and outdoor unit |
| | Refrigerant | Type | | - | R410A | R410A | R410A |
| | | Factory Charging | | kg / $tCO_2e$ | 1.3 / 2.71 | 1.5 / 3.13 | 3.0 / 6.26 |

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indoor Unit | Model Name | Indoor Unit | | | AC052NN4DKH/EU | AC071NN4DKH/EU | AC090NN4DKH/EU |
| | | Outdoor Unit | | | AC052MXADKH/EU | AC071MXADKH/EU | AC090MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Cu |
| | Fan | Type | | - | Turbo Fan | Turbo Fan | Turbo Fan |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | High/Mid/Low | CMM | 15.0 / 14.0 / 13.0 | 19.5 / 16.5 / 14.5 | 30.0 / 24.0 / 18.0 |
| | | | | l/s | 250.0 / 233.3 / 216.7 | 325.0 / 275.0 / 241.7 | 500.0 / 400.0 / 300.0 |
| | | External Static Pressure | Min/Std/Max | mmAq | - | - | - |
| | | | | Pa | - | - | - |
| | Fan Motor | Output | | W x n | 65 x 1 | 65 x 1 | 97 x 1 |
| | Drain | Drain Pipe | | Φ, mm | VP-25(OD32, ID25) | VP-25(OD32, ID25) | VP-25(OD32, ID25) |
| | Sound | Sound Pressure Level | High/Mid/Low/(Silent) | dB(A) | 33 / 31 / 29 | 36 / 33 / 29 | 43 / 38 / 33 |
| | | Sound Power Level | | dB(A) | 49 | 53 | 60 |
| | External Dimension | Net Weight | | kg | 15 | 15 | 18 |
| | | Shipping Weight | | kg | 18 | 18 | 22 |
| | | Net Dimensions (WxHxD) | | mm | 840 x 204 x 840 | 840 x 204 x 840 | 840 x 288 x 840 |
| | | Shipping Dimensions (WxHxD) | | mm | 898 x 275 x 898 | 898 x 275 x 898 | 898 x 357 x 898 |
| | Casing | Material | | - | Polypropylene | Polypropylene | Polypropylene |
| | Panel | Model Name | | - | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN |
| | | Type | | - | Wind-Free Type | Wind-Free Type | Wind-Free Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | DA White | DA White | DA White |
| | | Net Weight | | kg | 6.5 | 6.5 | 6.5 |
| | | Shipping Weight | | kg | 8.8 | 8.8 | 8.8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 64 x 950 | 950 x 64 x 950 | 950 x 64 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 |
| | Control System | Infrared remote control | | - | AR-EH03E | AR-EH03E | AR-EH03E |
| | Control System | Wired remote control | | - | MWR-WE13N | MWR-WE13N | MWR-WE13N |
| | Drain Pump | Drain Pump | | - | Included | Included | Included |
| | | Max. lifting Height / Displacement | | mm / Liter/h | 750/24 | 750/24 | 750/24 |
| | Additional Accessories | Drain Pump | External Model | - | - | - | - |
| | | | Internal Model | - | - | - | - |
| | | | Max. lifting Height / Displacement | mm / Liter/h | - | - | - |
| | | Air Filter | | - | Removable / Washable | Removable / Washable | Removable / Washable |
| | | Virus Doctor | | - | Option | Option | Option |

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outdoor Unit | Model Name | Indoor Unit | | | AC052NN4DKH/EU | AC071NN4DKH/EU | AC090NN4DKH/EU |
| | | Outdoor Unit | | | AC052MXADKH/EU | AC071MXADKH/EU | AC090MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | FMC | FMC | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Al | Al | Cu |
| | | Fin Treatment | | - | Hybrid Coating | Hybrid Coating | Green Hydrophile |
| | Compressor | Model Name | | | UG9TK3150FE4 | UG4T200FUAE4 | UG8T300FUBJU |
| | | Output | | kW | 1.42 | 1.79 | 2.82 |
| | | Oil | Type | - | POE | POE | PVE |
| | | | Initial charge | cc | 500 | 650 | 1200 |
| | Fan | Type | | - | Propeller | Propeller | Propeller |
| | | Discharge direction | | - | Front | Front | Front |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | | CMM | 40 | 51 | 78 |
| | | | | l/s | 667 | 850 | 1300 |
| | Fan Motor | Type | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| | | Output | | W x n | 125 x 1 | 125 x 1 | 125 x 1 |
| | Sound | Sound Pressure Level | Cooling | dB(A) | 48 | 49 | 52 |
| | | | Heating | dB(A) | 48 | 51 | 53 |
| | | Sound Power Level | | dB(A) | 62 | 65 | 68 |
| | External Dimension | Net Weight | | kg | 43.8 | 53 | 72 |
| | | Shipping Weight | | kg | 47.5 | 57.2 | 77 |
| | | Net Dimensions (WxHxD) | | mm | 880 x 638 x 310 | 880 x 798 x 310 | 940 x 998 x 330 |
| | | Shipping Dimensions (WxHxD) | | mm | 1023 x 730 x 413 | 1023 x 911 x 413 | 995 x 1096 x 426 |
| | Casing | Material | Body | - | EGI Steel Plate | EGI Steel Plate | EGI Steel Plate |
| | Operating Temp. Range | Cooling | | ℃ | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 |
| | | Heating | | ℃ | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 |

### NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| System | Model Name | Indoor Unit | | | AC100NN4DKH/EU | AC100NN4DKH/EU | AC120NN4DKH/EU |
| | | Outdoor Unit | | | AC100MXADKH/EU | AC100MXADNH/EU | AC120MXADKH/EU |
| | Mode | | | - | HEAT PUMP | HEAT PUMP | HEAT PUMP |
| | Performance | Capacity | Cooling (Min/Std/Max) | kW | 3.00 / 10.00 / 12.00 | 3.00 / 10.00 / 12.00 | 3.50 / 12.00 / 13.50 |
| | | | | Btu/h | 10,200 / 34,100 / 40,900 | 10,200 / 34,100 / 40,900 | 11,900 / 40,900 / 46,100 |
| | | | Heating (Min/Std/Max) | kW | 2.20 / 11.20 / 15.50 | 2.20 / 11.20 / 15.50 | 3.50 / 13.00 / 15.50 |
| | | | | Btu/h | 7,500 / 38,200 / 52,900 | 7,500 / 38,200 / 52,900 | 11,900 / 44,400 / 52,900 |
| | Power | Power Input | Cooling (Min/Std/Max) | kW | 0.60 / 3.12 / 4.70 | 0.60 / 3.12 / 4.70 | 0.90 / 4.70 / 5.30 |
| | | | Heating (Min/Std/Max) | kW | 0.46 / 3.10 / 5.40 | 0.46 / 3.10 / 5.40 | 0.75 / 3.80 / 5.50 |
| | | Current Input | Cooling (Min/Std/Max) | A | 3.00 / 13.60 / 20.40 | 1.50 / 4.80 / 7.10 | 4.30 / 21.10 / 23.00 |
| | | | Heating (Min/Std/Max) | A | 2.50 / 13.60 / 23.00 | 1.20 / 4.80 / 8.40 | 3.70 / 17.10 / 24.00 |
| | | Current | MCA | A | 25 | 17.1 | 25 |
| | | | MFA | A | 30 | 17.1 | 30 |
| | Efficiency | EER | Cooling | W/W | 3.21 | 3.21 | 2.55 |
| | | COP | Heating | W/W | 3.61 | 3.61 | 3.42 |
| | | SEER (Cooling Energy Grade) | | W/W | 6.8 (A++) | 6.8 (A++) | 5.7 (A+) |
| | | SCOP (Heating Energy Grade) | | W/W | 4.3 (A+) | 4.3 (A+) | 4.1 (A+) |
| | | Pdesignh | | kW | 6.3 | 6.3 | 7.4 |
| | Piping Connections | Liquid Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 9.52 | 9.52 | 9.52 |
| | | | | Φ, inch | 3/8 | 3/8 | 3/8 |
| | | Gas Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 15.88 | 15.88 | 15.88 |
| | | | | Φ, inch | 5/8 | 5/8 | 5/8 |
| | | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes |
| | | Piping length (ODU-IDU) | Standard | m | 5 | 5 | 5 |
| | | | Max. | m | 50 | 50 | 50 |
| | | | Elevation | m | 30 | 30 | 30 |
| | | | Chargeless | m | 30 | 30 | 30 |
| | Wiring connections | Power Source Wire | | $mm^2$ | - | - | - |
| | | Transmission Cable | | $mm^2$ | Min. 0.75 | Min. 0.75 | Min. 0.75 |
| | | Remark | | - | F1, F2 | F1, F2 | F1, F2 |
| | | Power supply intake | | - | Both indoor and outdoor unit | Both indoor and outdoor unit | Both indoor and outdoor unit |
| | Refrigerant | Type | | - | R410A | R410A | R410A |
| | | Factory Charging | | kg / $tCO_2e$ | 3.0 / 6.26 | 3.0 / 6.26 | 3.0 / 6.26 |

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indoor Unit | Model Name | Indoor Unit | | | AC100NN4DKH/EU | AC100NN4DKH/EU | AC120NN4DKH/EU |
| | | Outdoor Unit | | | AC100MXADKH/EU | AC100MXADNH/EU | AC120MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Cu |
| | Fan | Type | | - | Turbo Fan | Turbo Fan | Turbo Fan |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | High/Mid/Low | CMM | 31.0 / 25.0 / 19.0 | 31.0 / 25.0 / 19.0 | 32.0 / 26.0 / 20.0 |
| | | | | l/s | 516.7 / 416.7 / 316.7 | 516.7 / 416.7 / 316.7 | 533.3 / 433.3 / 333.3 |
| | | External Static Pressure | Min/Std/Max | mmAq | - | - | - |
| | | | | Pa | - | - | - |
| | Fan Motor | Output | | W x n | 97 x 1 | 97 x 1 | 97 x 1 |
| | Drain | Drain Pipe | | Φ, mm | VP-25(OD32, ID25) | VP-25(OD32, ID25) | VP-25(OD32, ID25) |
| | Sound | Sound Pressure Level | High/Mid/Low/(Silent) | dB(A) | 44 / 39 / 33 | 44 / 39 / 33 | 45 / 40 / 35 |
| | | Sound Power Level | | dB(A) | 61 | 61 | 61 |
| | External Dimension | Net Weight | | kg | 18 | 18 | 18 |
| | | Shipping Weight | | kg | 22 | 22 | 22 |
| | | Net Dimensions (WxHxD) | | mm | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | | Shipping Dimensions (WxHxD) | | mm | 898 x 357 x 898 | 898 x 357 x 898 | 898 x 357 x 898 |
| | Casing | Material | | - | Polypropylene | Polypropylene | Polypropylene |
| | Panel | Model Name | | - | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN |
| | | Type | | - | Wind-Free Type | Wind-Free Type | Wind-Free Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | DA White | DA White | DA White |
| | | Net Weight | | kg | 6.5 | 6.5 | 6.5 |
| | | Shipping Weight | | kg | 8.8 | 8.8 | 8.8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 64 x 950 | 950 x 64 x 950 | 950 x 64 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 |
| | Control System | Infrared remote control | | - | AR-EH03E | AR-EH03E | AR-EH03E |
| | Control System | Wired remote control | | - | MWR-WE13N | MWR-WE13N | MWR-WE13N |
| | Drain Pump | Drain Pump | | - | Included | Included | Included |
| | | Max. lifting Height / Displacement | | mm / Liter/h | 750/24 | 750/24 | 750/24 |
| | Additional Accessories | Drain Pump | External Model | - | - | - | - |
| | | | Internal Model | - | - | - | - |
| | | | Max. lifting Height / Displacement | mm / Liter/h | - | - | - |
| | | Air Filter | | - | Removable / Washable | Removable / Washable | Removable / Washable |
| | | Virus Doctor | | - | Option | Option | Option |

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outdoor Unit | Model Name | Indoor Unit | | | AC100NN4DKH/EU | AC100NN4DKH/EU | AC120NN4DKH/EU |
| | | Outdoor Unit | | | AC100MXADKH/EU | AC100MXADNH/EU | AC120MXADKH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 3, 4, 380-415, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Cu |
| | | Fin Treatment | | - | Green Hydrophile | Green Hydrophile | Green Hydrophile |
| | Compressor | Model Name | | | UG8T300FUBJU | UG8T300FUCJU | UG5TK1450FJX |
| | | Output | | kW | 2.82 | 2.82 | 4.19 |
| | | Oil | Type | - | PVE | PVE | PVE |
| | | | Initial charge | cc | 1200 | 1200 | 1700 |
| | Fan | Type | | - | Propeller | Propeller | Propeller |
| | | Discharge direction | | - | Front | Front | Front |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | | CMM | 78 | 78 | 78 |
| | | | | l/s | 1300 | 1300 | 1300 |
| | Fan Motor | Type | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| | | Output | | W x n | 125 x 1 | 125 x 1 | 125 x 1 |
| | Sound | Sound Pressure Level | Cooling | dB(A) | 52 | 52 | 54 |
| | | | Heating | dB(A) | 54 | 54 | 56 |
| | | Sound Power Level | | dB(A) | 69 | 69 | 70 |
| | External Dimension | Net Weight | | kg | 72 | 72 | 77 |
| | | Shipping Weight | | kg | 77 | 77 | 82 |
| | | Net Dimensions (WxHxD) | | mm | 940 x 998 x 330 | 940 x 998 x 330 | 940 x 998 x 330 |
| | | Shipping Dimensions (WxHxD) | | mm | 995 x 1096 x 426 | 995 x 1096 x 426 | 995 x 1096 x 426 |
| | Casing | Material | Body | - | EGI Steel Plate | EGI Steel Plate | EGI Steel Plate |
| | Operating Temp. Range | Cooling | | ℃ | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 |
| | | Heating | | ℃ | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 |

### NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| System | Model Name | Indoor Unit | | | AC120NN4DKH/EU | AC140NN4DKH/EU | AC140NN4DKH/EU |
| | | Outdoor Unit | | | AC120MXADNH/EU | AC140MXADKH/EU | AC140MXADNH/EU |
| | Mode | | | - | HEAT PUMP | HEAT PUMP | HEAT PUMP |
| | Performance | Capacity | Cooling (Min/Std/Max) | kW | 3.50 / 12.00 / 13.50 | 3.50 / 13.40 / 15.50 | 3.50 / 13.40 / 15.50 |
| | | | | Btu/h | 11,900 / 40,900 / 46,100 | 11,900 / 45,700 / 52,900 | 11,900 / 45,700 / 52,900 |
| | | | Heating (Min/Std/Max) | kW | 3.50 / 13.00 / 15.50 | 3.50 / 15.50 / 18.00 | 3.50 / 15.50 / 18.00 |
| | | | | Btu/h | 11,900 / 44,400 / 52,900 | 11,900 / 52,900 / 61,400 | 11,900 / 52,900 / 61,400 |
| | Power | Power Input | Cooling (Min/Std/Max) | kW | 0.90 / 4.70 / 7.90 | 0.80 / 4.45 / 6.44 | 0.80 / 4.45 / 7.90 |
| | | | Heating (Min/Std/Max) | kW | 0.75 / 3.80 / 7.90 | 0.70 / 4.54 / 7.36 | 0.70 / 4.54 / 7.90 |
| | | Current Input | Cooling (Min/Std/Max) | A | 2.10 / 7.30 / 12.00 | 3.70 / 20.00 / 28.00 | 2.10 / 7.00 / 12.00 |
| | | | Heating (Min/Std/Max) | A | 2.10 / 5.90 / 12.00 | 3.50 / 19.50 / 32.00 | 1.90 / 7.00 / 12.00 |
| | | Current | MCA | A | 17.1 | 33 | 17.1 |
| | | | MFA | A | 17.1 | 40 | 17.1 |
| | Efficiency | EER | Cooling | W/W | 2.55 | 3.01 | 3.01 |
| | | COP | Heating | W/W | 3.42 | 3.41 | 3.41 |
| | | SEER (Cooling Energy Grade) | | W/W | 5.7 (A+) | 5.8 (A+) | 5.8 (A+) |
| | | SCOP (Heating Energy Grade) | | W/W | 4.1 (A+) | 4.0 (A+) | 4.0 (A+) |
| | | Pdesignh | | kW | 7.4 | 8.4 | 8.4 |
| | Piping Connections | Liquid Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 9.52 | 9.52 | 9.52 |
| | | | | Φ, inch | 3/8 | 3/8 | 3/8 |
| | | Gas Pipe | | Type | Flare connection | Flare connection | Flare connection |
| | | | | Φ, mm | 15.88 | 15.88 | 15.88 |
| | | | | Φ, inch | 5/8 | 5/8 | 5/8 |
| | | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes |
| | | Piping length (ODU-IDU) | Standard | m | 5 | 5 | 5 |
| | | | Max. | m | 50 | 75 | 75 |
| | | | Elevation | m | 30 | 30 | 30 |
| | | | Chargeless | m | 30 | 30 | 30 |
| | Wiring connections | Power Source Wire | | $mm^2$ | - | - | - |
| | | Transmission Cable | | $mm^2$ | Min. 0.75 | Min. 0.75 | Min. 0.75 |
| | | Remark | | - | F1, F2 | F1, F2 | F1, F2 |
| | | Power supply intake | | - | Both indoor and outdoor unit | Both indoor and outdoor unit | Both indoor and outdoor unit |
| | Refrigerant | Type | | - | R410A | R410A | R410A |
| | | Factory Charging | | kg / $tCO_2e$ | 3.0 / 6.26 | 3.4 / 7.10 | 3.4 / 7.10 |

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indoor Unit | Model Name | Indoor Unit | | | AC120NN4DKH/EU | AC140NN4DKH/EU | AC140NN4DKH/EU |
| | | Outdoor Unit | | | AC120MXADNH/EU | AC140MXADKH/EU | AC140MXADNH/EU |
| | Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 | 1, 2, 220-240, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Cu |
| | Fan | Type | | - | Turbo Fan | Turbo Fan | Turbo Fan |
| | | Quantity | | EA | 1 | 1 | 1 |
| | | Air Flow Rate | High/Mid/Low | CMM | 32.0 / 26.0 / 20.0 | 32.0 / 27.0 / 22.0 | 32.0 / 27.0 / 22.0 |
| | | | | l/s | 533.3 / 433.3 / 333.3 | 533.3 / 450.0 / 366.6 | 533.3 / 450.0 / 366.6 |
| | | External Static Pressure | Min/Std/Max | mmAq | - | - | - |
| | | | | Pa | - | - | - |
| | Fan Motor | Output | | W x n | 97 x 1 | 97 x 1 | 97 x 1 |
| | Drain | Drain Pipe | | Φ, mm | VP-25(OD32, ID25) | VP-25(OD32, ID25) | VP-25(OD32, ID25) |
| | Sound | Sound Pressure Level | High/Mid/Low/(Silent) | dB(A) | 45 / 40 / 35 | 45 / 41 / 37 | 45 / 41 / 37 |
| | | Sound Power Level | | dB(A) | 61 | 61 | 61 |
| | External Dimension | Net Weight | | kg | 18 | 20 | 20 |
| | | Shipping Weight | | kg | 22 | 24 | 24 |
| | | Net Dimensions (WxHxD) | | mm | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | | Shipping Dimensions (WxHxD) | | mm | 898 x 357 x 898 | 898 x 357 x 898 | 898 x 357 x 898 |
| | Casing | Material | | - | Polypropylene | Polypropylene | Polypropylene |
| | Panel | Model Name | | - | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN |
| | | Type | | - | Wind-Free Type | Wind-Free Type | Wind-Free Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | DA White | DA White | DA White |
| | | Net Weight | | kg | 6.5 | 6.5 | 6.5 |
| | | Shipping Weight | | kg | 8.8 | 8.8 | 8.8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 64 x 950 | 950 x 64 x 950 | 950 x 64 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 |
| | Control System | Infrared remote control | | - | AR-EH03E | AR-EH03E | AR-EH03E |
| | Control System | Wired remote control | | - | MWR-WE13N | MWR-WE13N | MWR-WE13N |
| | Drain Pump | Drain Pump | | - | Included | Included | Included |
| | | Max. lifting Height / Displacement | | mm / Liter/h | 750/24 | 750/24 | 750/24 |
| | Additional Accessories | Drain Pump | External Model | - | - | - | - |
| | | | Internal Model | - | - | - | - |
| | | | Max. lifting Height / Displacement | mm / Liter/h | - | - | - |
| | | Air Filter | | - | Removable / Washable | Removable / Washable | Removable / Washable |
| | | Virus Doctor | | - | Option | Option | Option |

# 1. Specification

## Wind-Free 4Way Cassette

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outdoor Unit | Model Name | Indoor Unit | | | AC120NN4DKH/EU | AC140NN4DKH/EU | AC140NN4DKH/EU |
| | | Outdoor Unit | | | AC120MXADNH/EU | AC140MXADKH/EU | AC140MXADNH/EU |
| | Power Supply | | | Ø, #, V, Hz | 3, 4, 380-415, 50 | 1, 2, 220-240, 50 | 3, 4, 380-415, 50 |
| | Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | | Material | Fin | - | Al | Al | Al |
| | | | Tube | - | Cu | Cu | Cu |
| | | Fin Treatment | | - | Green Hydrophile | Green Hydrophile | Green Hydrophile |
| | Compressor | Model Name | | | UG5TK1450FJX | UG5TK1450FJX | UG5TK1450FJX |
| | | Output | | kW | 4.19 | 4.19 | 4.19 |
| | | Oil | Type | - | PVE | PVE | PVE |
| | | | Initial charge | cc | 1700 | 1700 | 1700 |
| | Fan | Type | | - | Propeller | Propeller | Propeller |
| | | Discharge direction | | - | Front | Front | Front |
| | | Quantity | | EA | 1 | 2 | 2 |
| | | Air Flow Rate | | CMM | 78 | 111 | 111 |
| | | | | l/s | 1300 | 1850 | 1850 |
| | Fan Motor | Type | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| | | Output | | W x n | 125 x 1 | 125 x 2 | 125 x 2 |
| | Sound | Sound Pressure Level | Cooling | dB(A) | 54 | 53 | 53 |
| | | | Heating | dB(A) | 56 | 54 | 54 |
| | | Sound Power Level | | dB(A) | 70 | 69 | 69 |
| | External Dimension | Net Weight | | kg | 77 | 87 | 87 |
| | | Shipping Weight | | kg | 82 | 97 | 97 |
| | | Net Dimensions (WxHxD) | | mm | 940 x 998 x 330 | 940 x 1210 x 330 | 940 x 1210 x 330 |
| | | Shipping Dimensions (WxHxD) | | mm | 995 x 1096 x 426 | 995 x 1388 x 426 | 995 x 1388 x 426 |
| | Casing | Material | Body | - | EGI Steel Plate | EGI Steel Plate | EGI Steel Plate |
| | Operating Temp. Range | Cooling | | ℃ | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 |
| | | Heating | | ℃ | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 |

### NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

# 2. Summary Table

## Wind-Free 4Way Cassette

### Performance Characteristics

| Model Code | Net Weight (kg) | | Capacity | | Fan Speed | Airflow (Cooling/Heating) (CMM) | Sound Pressure Level (dBA) | Sound Power Level (dBA) |
|---|---|---|---|---|---|---|---|---|
| | | | Cooling (kW) | Heating (kW) | | | | |
| AC052NN4DKH/EU | 15 | Max. | 6.0 | 7.0 | High | 15.0 / 15.0 | 33 | 49 |
| | | Std. | 5.0 | 6.0 | Mid | 14.0 / 14.0 | 31 | - |
| | | Min. | 1.0 | 1.0 | Low | 13.0 / 13.0 | 29 | - |
| AC071NN4DKH/EU | 15 | Max. | 8.0 | 9.0 | High | 19.5 / 19.5 | 36 | 53 |
| | | Std. | 7.1 | 8.0 | Mid | 16.5 / 16.5 | 33 | - |
| | | Min. | 2.2 | 1.9 | Low | 14.5 / 14.5 | 29 | - |
| AC090NN4DKH/EU | 18 | Max. | 11.3 | 13.9 | High | 30.0 / 30.0 | 43 | 60 |
| | | Std. | 9.0 | 10.0 | Mid | 24.0 / 24.0 | 38 | - |
| | | Min. | 3.0 | 2.2 | Low | 18.0 / 18.0 | 33 | - |
| AC100NN4DKH/EU | 18 | Max. | 12.0 | 15.5 | High | 31.0 / 31.0 | 44 | 61 |
| | | Std. | 10.0 | 11.2 | Mid | 25.0 / 25.0 | 39 | - |
| | | Min. | 3.0 | 2.2 | Low | 19.0 / 19.0 | 33 | - |
| AC120NN4DKH/EU | 18 | Max. | 13.5 | 15.5 | High | 32.0 / 32.0 | 45 | 61 |
| | | Std. | 12.0 | 13.0 | Mid | 26.0 / 26.0 | 40 | - |
| | | Min. | 3.5 | 3.5 | Low | 22.0 / 22.0 | 35 | - |
| AC140NN4DKH/EU | 20 | Max. | 15.5 | 18.0 | High | 34.0 / 34.0 | 45 | 61 |
| | | Std. | 13.4 | 15.5 | Mid | 27.0 / 27.0 | 41 | - |
| | | Min. | 3.5 | 3.5 | Low | 23.0 / 23.0 | 37 | - |

**NOTE**

- Sound data is based on cooling operation.

### Electric Characteristics

| Model | | Outdoor Unit | | | | Input Current (Amperes) | | | | Power Supply | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Unit | Outdoor Unit | Rated | Voltage range | | | Outdoor Unit | | Indoor Unit | Total | MCA(A) | MFA(A) |
| | | Hz | Volts | Min. | Max. | Cooling | Heating | | | | |
| AC052NN4DKH/EU | AC052MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |
| AC071NN4DKH/EU | AC071MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |
| AC090NN4DKH/EU | AC090MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 24 | 24 | 1 | 25 | 25 | 30 |
| AC100NN4DKH/EU | AC100MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 24 | 24 | 1 | 25 | 25 | 30 |
| AC100NN4DKH/EU | AC100MXADNH/EU | 50 | 380 to 415 | 342 | 456.5 | 16.1 | 16.1 | 1 | 17.1 | 17.1 | 17.1 |
| AC120NN4DKH/EU | AC120MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 24 | 24 | 1 | 25 | 25 | 30 |
| AC120NN4DKH/EU | AC120MXADNH/EU | 50 | 380 to 415 | 342 | 456.5 | 16.1 | 16.1 | 1 | 17.1 | 17.1 | 17.1 |
| AC140NN4DKH/EU | AC140MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 32 | 32 | 1 | 33 | 33 | 40 |
| AC140NN4DKH/EU | AC140MXADNH/EU | 50 | 380 to 415 | 342 | 456.5 | 16.1 | 16.1 | 1 | 17.1 | 17.1 | 17.1 |

**NOTE**

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (1) AC052NN4DKH/EU + AC052MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 4.88 | 4.13 | 1.03 | 5.13 | 4.25 | 1.05 | 5.35 | 4.38 | 1.07 | 5.51 | 4.52 | 1.09 | 5.62 | 4.48 | 1.11 | 5.90 | 4.43 | 1.12 | 6.20 | 4.34 | 1.14 |
| 21 | 4.64 | 3.93 | 1.08 | 4.89 | 4.05 | 1.11 | 5.09 | 4.18 | 1.13 | 5.25 | 4.31 | 1.15 | 5.36 | 4.26 | 1.16 | 5.62 | 4.22 | 1.18 | 5.90 | 4.13 | 1.20 |
| 35 | 4.42 | 3.74 | 1.36 | 4.66 | 3.86 | 1.38 | 4.85 | 3.98 | 1.41 | 5.00 | 4.10 | 1.44 | 5.10 | 4.06 | 1.45 | 5.36 | 4.02 | 1.47 | 5.62 | 3.94 | 1.50 |
| 46 | 3.76 | 3.47 | 1.22 | 3.96 | 3.57 | 1.24 | 4.12 | 3.68 | 1.27 | 4.25 | 3.80 | 1.30 | 4.34 | 3.76 | 1.31 | 4.55 | 3.72 | 1.32 | 4.78 | 3.65 | 1.35 |
| 50 | 2.88 | 2.73 | 1.08 | 3.03 | 2.81 | 1.11 | 3.15 | 2.90 | 1.13 | 3.25 | 2.99 | 1.15 | 3.32 | 2.96 | 1.16 | 3.48 | 2.93 | 1.18 | 3.65 | 2.87 | 1.20 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 4.22 | 1.98 | 4.18 | 1.96 | 4.14 | 1.94 | 4.10 | 1.92 | 4.06 | 1.90 | 4.02 | 1.88 |
| -15 | 5.32 | 2.28 | 5.27 | 2.26 | 5.22 | 2.24 | 5.17 | 2.21 | 5.12 | 2.19 | 5.06 | 2.17 |
| -5 | 6.00 | 2.13 | 5.94 | 2.11 | 5.88 | 2.09 | 5.82 | 2.07 | 5.76 | 2.04 | 5.71 | 2.02 |
| 0 | 6.24 | 1.82 | 6.18 | 1.81 | 6.12 | 1.79 | 6.06 | 1.77 | 6.00 | 1.75 | 5.94 | 1.73 |
| 7 | 6.12 | 1.52 | 6.06 | 1.50 | 6.00 | 1.49 | 5.94 | 1.48 | 5.88 | 1.46 | 5.82 | 1.45 |
| 24 | 7.96 | 1.75 | 7.88 | 1.73 | 7.80 | 1.71 | 7.72 | 1.70 | 7.64 | 1.68 | 7.57 | 1.66 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (2) AC071NN4DKH/EU + AC071MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 6.92 | 5.29 | 1.81 | 7.29 | 5.45 | 1.85 | 7.59 | 5.62 | 1.88 | 7.83 | 5.79 | 1.92 | 7.98 | 5.73 | 1.94 | 8.38 | 5.68 | 1.96 | 8.80 | 5.56 | 2.00 |
| 21 | 6.59 | 5.03 | 1.90 | 6.94 | 5.19 | 1.94 | 7.23 | 5.35 | 1.98 | 7.46 | 5.52 | 2.02 | 7.60 | 5.46 | 2.04 | 7.98 | 5.41 | 2.06 | 8.38 | 5.30 | 2.11 |
| 35 | 6.28 | 4.80 | 2.38 | 6.61 | 4.94 | 2.43 | 6.89 | 5.10 | 2.48 | 7.10 | 5.25 | 2.53 | 7.24 | 5.20 | 2.56 | 7.60 | 5.15 | 2.58 | 7.98 | 5.05 | 2.63 |
| 46 | 5.34 | 4.48 | 2.14 | 5.62 | 4.62 | 2.19 | 5.85 | 4.76 | 2.23 | 6.04 | 4.91 | 2.28 | 6.16 | 4.86 | 2.30 | 6.46 | 4.81 | 2.32 | 6.79 | 4.71 | 2.37 |
| 50 | 4.08 | 3.54 | 1.90 | 4.30 | 3.65 | 1.94 | 4.48 | 3.76 | 1.98 | 4.62 | 3.88 | 2.02 | 4.71 | 3.84 | 2.04 | 4.94 | 3.80 | 2.06 | 5.19 | 3.72 | 2.11 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 5.63 | 3.18 | 5.58 | 3.15 | 5.52 | 3.12 | 5.46 | 3.09 | 5.41 | 3.06 | 5.36 | 3.03 |
| -15 | 7.10 | 3.67 | 7.03 | 3.64 | 6.96 | 3.60 | 6.89 | 3.56 | 6.82 | 3.53 | 6.75 | 3.49 |
| -5 | 8.00 | 3.43 | 7.92 | 3.39 | 7.84 | 3.36 | 7.76 | 3.33 | 7.68 | 3.29 | 7.61 | 3.26 |
| 0 | 8.32 | 2.94 | 8.24 | 2.91 | 8.16 | 2.88 | 8.08 | 2.85 | 8.00 | 2.82 | 7.92 | 2.79 |
| 7 | 8.16 | 2.45 | 8.08 | 2.42 | 8.00 | 2.40 | 7.92 | 2.38 | 7.84 | 2.35 | 7.76 | 2.33 |
| 24 | 10.61 | 2.82 | 10.50 | 2.79 | 10.40 | 2.76 | 10.30 | 2.73 | 10.19 | 2.71 | 10.09 | 2.68 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (3) AC090NN4DKH/EU + AC090MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 8.78 | 7.43 | 1.97 | 9.24 | 7.66 | 2.01 | 9.62 | 7.89 | 2.05 | 9.92 | 8.14 | 2.09 | 10.12 | 8.06 | 2.11 | 10.63 | 7.97 | 2.13 | 11.16 | 7.82 | 2.17 |
| 21 | 8.36 | 7.07 | 2.07 | 8.80 | 7.29 | 2.11 | 9.17 | 7.52 | 2.16 | 9.45 | 7.75 | 2.20 | 9.64 | 7.67 | 2.22 | 10.12 | 7.59 | 2.24 | 10.63 | 7.44 | 2.29 |
| 35 | 7.96 | 6.74 | 2.59 | 8.38 | 6.94 | 2.64 | 8.73 | 7.16 | 2.70 | 9.00 | 7.38 | 2.75 | 9.18 | 7.31 | 2.78 | 9.64 | 7.23 | 2.81 | 10.12 | 7.09 | 2.86 |
| 46 | 6.77 | 6.24 | 2.33 | 7.12 | 6.43 | 2.38 | 7.42 | 6.63 | 2.43 | 7.65 | 6.83 | 2.48 | 7.80 | 6.77 | 2.50 | 8.19 | 6.70 | 2.52 | 8.60 | 6.56 | 2.57 |
| 50 | 5.18 | 4.91 | 2.07 | 5.45 | 5.06 | 2.11 | 5.67 | 5.22 | 2.16 | 5.85 | 5.38 | 2.20 | 5.97 | 5.33 | 2.22 | 6.27 | 5.27 | 2.24 | 6.58 | 5.17 | 2.29 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 7.04 | 3.58 | 6.97 | 3.55 | 6.90 | 3.51 | 6.83 | 3.47 | 6.76 | 3.44 | 6.70 | 3.41 |
| -15 | 8.87 | 4.13 | 8.79 | 4.09 | 8.70 | 4.05 | 8.61 | 4.01 | 8.53 | 3.97 | 8.44 | 3.93 |
| -5 | 10.00 | 3.86 | 9.90 | 3.82 | 9.80 | 3.78 | 9.70 | 3.74 | 9.60 | 3.70 | 9.51 | 3.67 |
| 0 | 10.41 | 3.31 | 10.30 | 3.27 | 10.20 | 3.24 | 10.10 | 3.21 | 10.00 | 3.18 | 9.90 | 3.14 |
| 7 | 10.20 | 2.75 | 10.10 | 2.73 | 10.00 | 2.70 | 9.90 | 2.67 | 9.80 | 2.65 | 9.70 | 2.62 |
| 24 | 13.26 | 3.17 | 13.13 | 3.14 | 13.00 | 3.11 | 12.87 | 3.07 | 12.74 | 3.04 | 12.61 | 3.01 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (4) AC100NN4DKH/EU + AC100MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 9.75 | 8.05 | 2.23 | 10.27 | 8.30 | 2.28 | 10.69 | 8.56 | 2.32 | 11.03 | 8.82 | 2.37 | 11.25 | 8.73 | 2.39 | 11.81 | 8.64 | 2.42 | 12.40 | 8.47 | 2.47 |
| 21 | 9.29 | 7.67 | 2.35 | 9.78 | 7.90 | 2.40 | 10.19 | 8.15 | 2.45 | 10.50 | 8.40 | 2.50 | 10.71 | 8.32 | 2.52 | 11.25 | 8.23 | 2.55 | 11.81 | 8.07 | 2.60 |
| 35 | 8.85 | 7.30 | 2.94 | 9.31 | 7.53 | 3.00 | 9.70 | 7.76 | 3.06 | 10.00 | 8.00 | 3.12 | 10.20 | 7.92 | 3.15 | 10.71 | 7.84 | 3.18 | 11.25 | 7.68 | 3.25 |
| 46 | 7.52 | 7.06 | 2.64 | 7.92 | 7.28 | 2.70 | 8.25 | 7.50 | 2.75 | 8.50 | 7.74 | 2.81 | 8.67 | 7.66 | 2.84 | 9.10 | 7.58 | 2.86 | 9.56 | 7.43 | 2.92 |
| 50 | 5.75 | 5.64 | 2.35 | 6.05 | 5.81 | 2.40 | 6.31 | 5.99 | 2.45 | 6.50 | 6.18 | 2.50 | 6.63 | 6.11 | 2.52 | 6.96 | 6.05 | 2.55 | 7.31 | 5.93 | 2.60 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 7.88 | 4.11 | 7.81 | 4.07 | 7.73 | 4.03 | 7.65 | 3.99 | 7.57 | 3.95 | 7.50 | 3.91 |
| -15 | 9.94 | 4.74 | 9.84 | 4.70 | 9.74 | 4.65 | 9.65 | 4.60 | 9.55 | 4.56 | 9.45 | 4.51 |
| -5 | 11.20 | 4.43 | 11.09 | 4.38 | 10.98 | 4.34 | 10.87 | 4.30 | 10.76 | 4.25 | 10.65 | 4.21 |
| 0 | 11.65 | 3.79 | 11.54 | 3.76 | 11.42 | 3.72 | 11.31 | 3.68 | 11.20 | 3.65 | 11.08 | 3.61 |
| 7 | 11.43 | 3.16 | 11.31 | 3.13 | 11.20 | 3.10 | 11.09 | 3.07 | 10.98 | 3.04 | 10.87 | 3.01 |
| 24 | 14.85 | 3.64 | 14.71 | 3.60 | 14.56 | 3.57 | 14.41 | 3.53 | 14.27 | 3.49 | 14.13 | 3.46 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (5) AC100NN4DKH/EU + AC100MXADNH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 9.75 | 8.05 | 2.23 | 10.27 | 8.30 | 2.28 | 10.69 | 8.56 | 2.32 | 11.03 | 8.82 | 2.37 | 11.25 | 8.73 | 2.39 | 11.81 | 8.64 | 2.42 | 12.40 | 8.47 | 2.47 |
| 21 | 9.29 | 7.67 | 2.35 | 9.78 | 7.90 | 2.40 | 10.19 | 8.15 | 2.45 | 10.50 | 8.40 | 2.50 | 10.71 | 8.32 | 2.52 | 11.25 | 8.23 | 2.55 | 11.81 | 8.07 | 2.60 |
| 35 | 8.85 | 7.30 | 2.94 | 9.31 | 7.53 | 3.00 | 9.70 | 7.76 | 3.06 | 10.00 | 8.00 | 3.12 | 10.20 | 7.92 | 3.15 | 10.71 | 7.84 | 3.18 | 11.25 | 7.68 | 3.25 |
| 46 | 7.52 | 7.06 | 2.64 | 7.92 | 7.28 | 2.70 | 8.25 | 7.50 | 2.75 | 8.50 | 7.74 | 2.81 | 8.67 | 7.66 | 2.84 | 9.10 | 7.58 | 2.86 | 9.56 | 7.43 | 2.92 |
| 50 | 5.75 | 5.64 | 2.35 | 6.05 | 5.81 | 2.40 | 6.31 | 5.99 | 2.45 | 6.50 | 6.18 | 2.50 | 6.63 | 6.11 | 2.52 | 6.96 | 6.05 | 2.55 | 7.31 | 5.93 | 2.60 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 7.88 | 4.11 | 7.81 | 4.07 | 7.73 | 4.03 | 7.65 | 3.99 | 7.57 | 3.95 | 7.50 | 3.91 |
| -15 | 9.94 | 4.74 | 9.84 | 4.70 | 9.74 | 4.65 | 9.65 | 4.60 | 9.55 | 4.56 | 9.45 | 4.51 |
| -5 | 11.20 | 4.43 | 11.09 | 4.38 | 10.98 | 4.34 | 10.87 | 4.30 | 10.76 | 4.25 | 10.65 | 4.21 |
| 0 | 11.65 | 3.79 | 11.54 | 3.76 | 11.42 | 3.72 | 11.31 | 3.68 | 11.20 | 3.65 | 11.08 | 3.61 |
| 7 | 11.43 | 3.16 | 11.31 | 3.13 | 11.20 | 3.10 | 11.09 | 3.07 | 10.98 | 3.04 | 10.87 | 3.01 |
| 24 | 14.85 | 3.64 | 14.71 | 3.60 | 14.56 | 3.57 | 14.41 | 3.53 | 14.27 | 3.49 | 14.13 | 3.46 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (6) AC120NN4DKH/EU + AC120MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 11.70 | 9.18 | 3.36 | 12.32 | 9.46 | 3.43 | 12.83 | 9.75 | 3.50 | 13.23 | 10.05 | 3.57 | 13.49 | 9.95 | 3.61 | 14.17 | 9.85 | 3.64 | 14.88 | 9.66 | 3.72 |
| 21 | 11.15 | 8.74 | 3.54 | 11.73 | 9.01 | 3.61 | 12.22 | 9.29 | 3.68 | 12.60 | 9.58 | 3.76 | 12.85 | 9.48 | 3.80 | 13.49 | 9.39 | 3.84 | 14.17 | 9.20 | 3.91 |
| 35 | 10.62 | 8.32 | 4.42 | 11.17 | 8.58 | 4.51 | 11.64 | 8.85 | 4.61 | 12.00 | 9.12 | 4.70 | 12.24 | 9.03 | 4.75 | 12.85 | 8.94 | 4.79 | 13.49 | 8.76 | 4.89 |
| 46 | 9.02 | 8.30 | 3.98 | 9.50 | 8.56 | 4.06 | 9.89 | 8.83 | 4.15 | 10.20 | 9.10 | 4.23 | 10.40 | 9.01 | 4.27 | 10.92 | 8.92 | 4.31 | 11.47 | 8.74 | 4.40 |
| 50 | 6.90 | 6.69 | 3.54 | 7.26 | 6.90 | 3.61 | 7.57 | 7.11 | 3.68 | 7.80 | 7.33 | 3.76 | 7.96 | 7.26 | 3.80 | 8.35 | 7.19 | 3.84 | 8.77 | 7.04 | 3.91 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 9.15 | 5.04 | 9.06 | 4.99 | 8.97 | 4.94 | 8.88 | 4.89 | 8.79 | 4.84 | 8.70 | 4.79 |
| -15 | 11.54 | 5.81 | 11.42 | 5.76 | 11.31 | 5.70 | 11.20 | 5.64 | 11.08 | 5.59 | 10.97 | 5.53 |
| -5 | 13.00 | 5.43 | 12.87 | 5.37 | 12.74 | 5.32 | 12.61 | 5.27 | 12.49 | 5.21 | 12.36 | 5.16 |
| 0 | 13.53 | 4.65 | 13.39 | 4.61 | 13.26 | 4.56 | 13.13 | 4.51 | 13.00 | 4.47 | 12.87 | 4.42 |
| 7 | 13.26 | 3.88 | 13.13 | 3.84 | 13.00 | 3.80 | 12.87 | 3.76 | 12.74 | 3.72 | 12.61 | 3.69 |
| 24 | 17.24 | 4.46 | 17.07 | 4.41 | 16.90 | 4.37 | 16.73 | 4.33 | 16.56 | 4.28 | 16.40 | 4.24 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (7) AC120NN4DKH/EU + AC120MXADNH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 11.70 | 9.18 | 3.36 | 12.32 | 9.46 | 3.43 | 12.83 | 9.75 | 3.50 | 13.23 | 10.05 | 3.57 | 13.49 | 9.95 | 3.61 | 14.17 | 9.85 | 3.64 | 14.88 | 9.66 | 3.72 |
| 21 | 11.15 | 8.74 | 3.54 | 11.73 | 9.01 | 3.61 | 12.22 | 9.29 | 3.68 | 12.60 | 9.58 | 3.76 | 12.85 | 9.48 | 3.80 | 13.49 | 9.39 | 3.84 | 14.17 | 9.20 | 3.91 |
| 35 | 10.62 | 8.32 | 4.42 | 11.17 | 8.58 | 4.51 | 11.64 | 8.85 | 4.61 | 12.00 | 9.12 | 4.70 | 12.24 | 9.03 | 4.75 | 12.85 | 8.94 | 4.79 | 13.49 | 8.76 | 4.89 |
| 46 | 9.02 | 8.30 | 3.98 | 9.50 | 8.56 | 4.06 | 9.89 | 8.83 | 4.15 | 10.20 | 9.10 | 4.23 | 10.40 | 9.01 | 4.27 | 10.92 | 8.92 | 4.31 | 11.47 | 8.74 | 4.40 |
| 50 | 6.90 | 6.69 | 3.54 | 7.26 | 6.90 | 3.61 | 7.57 | 7.11 | 3.68 | 7.80 | 7.33 | 3.76 | 7.96 | 7.26 | 3.80 | 8.35 | 7.19 | 3.84 | 8.77 | 7.04 | 3.91 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 9.15 | 5.04 | 9.06 | 4.99 | 8.97 | 4.94 | 8.88 | 4.89 | 8.79 | 4.84 | 8.70 | 4.79 |
| -15 | 11.54 | 5.81 | 11.42 | 5.76 | 11.31 | 5.70 | 11.20 | 5.64 | 11.08 | 5.59 | 10.97 | 5.53 |
| -5 | 13.00 | 5.43 | 12.87 | 5.37 | 12.74 | 5.32 | 12.61 | 5.27 | 12.49 | 5.21 | 12.36 | 5.16 |
| 0 | 13.53 | 4.65 | 13.39 | 4.61 | 13.26 | 4.56 | 13.13 | 4.51 | 13.00 | 4.47 | 12.87 | 4.42 |
| 7 | 13.26 | 3.88 | 13.13 | 3.84 | 13.00 | 3.80 | 12.87 | 3.76 | 12.74 | 3.72 | 12.61 | 3.69 |
| 24 | 17.24 | 4.46 | 17.07 | 4.41 | 16.90 | 4.37 | 16.73 | 4.33 | 16.56 | 4.28 | 16.40 | 4.24 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (8) AC140NN4DKH/EU + AC140MXADKH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 13.07 | 9.84 | 3.18 | 13.76 | 10.15 | 3.25 | 14.33 | 10.46 | 3.31 | 14.77 | 10.78 | 3.38 | 15.07 | 10.68 | 3.42 | 15.82 | 10.57 | 3.45 | 16.61 | 10.36 | 3.52 |
| 21 | 12.45 | 9.37 | 3.35 | 13.10 | 9.66 | 3.42 | 13.65 | 9.96 | 3.49 | 14.07 | 10.27 | 3.56 | 14.35 | 10.17 | 3.60 | 15.07 | 10.07 | 3.63 | 15.82 | 9.87 | 3.70 |
| 35 | 11.85 | 8.93 | 4.19 | 12.48 | 9.20 | 4.27 | 13.00 | 9.49 | 4.36 | 13.40 | 9.78 | 4.45 | 13.67 | 9.68 | 4.49 | 14.35 | 9.59 | 4.54 | 15.07 | 9.40 | 4.63 |
| 46 | 10.08 | 8.73 | 3.77 | 10.61 | 9.00 | 3.85 | 11.05 | 9.28 | 3.92 | 11.39 | 9.57 | 4.01 | 11.62 | 9.47 | 4.05 | 12.20 | 9.38 | 4.09 | 12.81 | 9.19 | 4.17 |
| 50 | 7.71 | 7.00 | 3.35 | 8.11 | 7.21 | 3.42 | 8.45 | 7.43 | 3.49 | 8.71 | 7.66 | 3.56 | 8.88 | 7.59 | 3.60 | 9.33 | 7.51 | 3.63 | 9.79 | 7.36 | 3.70 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 10.91 | 6.02 | 10.80 | 5.96 | 10.70 | 5.90 | 10.59 | 5.84 | 10.48 | 5.78 | 10.38 | 5.73 |
| -15 | 13.76 | 6.95 | 13.62 | 6.88 | 13.49 | 6.81 | 13.35 | 6.74 | 13.22 | 6.67 | 13.08 | 6.61 |
| -5 | 15.50 | 6.48 | 15.34 | 6.42 | 15.19 | 6.36 | 15.04 | 6.29 | 14.89 | 6.23 | 14.74 | 6.17 |
| 0 | 16.13 | 5.56 | 15.97 | 5.50 | 15.81 | 5.45 | 15.65 | 5.39 | 15.50 | 5.34 | 15.34 | 5.29 |
| 7 | 15.81 | 4.63 | 15.66 | 4.59 | 15.50 | 4.54 | 15.35 | 4.49 | 15.19 | 4.45 | 15.04 | 4.41 |
| 24 | 20.56 | 5.33 | 20.35 | 5.27 | 20.15 | 5.22 | 19.95 | 5.17 | 19.75 | 5.12 | 19.55 | 5.07 |

**NOTE**

- The performance table shows the average value of each conditions.

# 3. Capacity Table

## Wind-Free 4Way Cassette

### (9) AC140NN4DKH/EU + AC140MXADNH/EU

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB / WB) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 / 14 | | | 22 / 16 | | | 25 / 18 | | | 27 / 19 | | | 28 / 20 | | | 30 / 22 | | | 32 / 24 | | |
| | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -15 | 13.07 | 9.84 | 3.18 | 13.76 | 10.15 | 3.25 | 14.33 | 10.46 | 3.31 | 14.77 | 10.78 | 3.38 | 15.07 | 10.68 | 3.42 | 15.82 | 10.57 | 3.45 | 16.61 | 10.36 | 3.52 |
| 21 | 12.45 | 9.37 | 3.35 | 13.10 | 9.66 | 3.42 | 13.65 | 9.96 | 3.49 | 14.07 | 10.27 | 3.56 | 14.35 | 10.17 | 3.60 | 15.07 | 10.07 | 3.63 | 15.82 | 9.87 | 3.70 |
| 35 | 11.85 | 8.93 | 4.19 | 12.48 | 9.20 | 4.27 | 13.00 | 9.49 | 4.36 | 13.40 | 9.78 | 4.45 | 13.67 | 9.68 | 4.49 | 14.35 | 9.59 | 4.54 | 15.07 | 9.40 | 4.63 |
| 46 | 10.08 | 8.73 | 3.77 | 10.61 | 9.00 | 3.85 | 11.05 | 9.28 | 3.92 | 11.39 | 9.57 | 4.01 | 11.62 | 9.47 | 4.05 | 12.20 | 9.38 | 4.09 | 12.81 | 9.19 | 4.17 |
| 50 | 7.71 | 7.00 | 3.35 | 8.11 | 7.21 | 3.42 | 8.45 | 7.43 | 3.49 | 8.71 | 7.66 | 3.56 | 8.88 | 7.59 | 3.60 | 9.33 | 7.51 | 3.63 | 9.79 | 7.36 | 3.70 |

### Heating

TC : Total Capacity, PI : Power Input

| Outdoor Temperature (°C, DB) | Indoor Temperature (°C, DB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| -20 | 10.91 | 6.02 | 10.80 | 5.96 | 10.70 | 5.90 | 10.59 | 5.84 | 10.48 | 5.78 | 10.38 | 5.73 |
| -15 | 13.76 | 6.95 | 13.62 | 6.88 | 13.49 | 6.81 | 13.35 | 6.74 | 13.22 | 6.67 | 13.08 | 6.61 |
| -5 | 15.50 | 6.48 | 15.34 | 6.42 | 15.19 | 6.36 | 15.04 | 6.29 | 14.89 | 6.23 | 14.74 | 6.17 |
| 0 | 16.13 | 5.56 | 15.97 | 5.50 | 15.81 | 5.45 | 15.65 | 5.39 | 15.50 | 5.34 | 15.34 | 5.29 |
| 7 | 15.81 | 4.63 | 15.66 | 4.59 | 15.50 | 4.54 | 15.35 | 4.49 | 15.19 | 4.45 | 15.04 | 4.41 |
| 24 | 20.56 | 5.33 | 20.35 | 5.27 | 20.15 | 5.22 | 19.95 | 5.17 | 19.75 | 5.12 | 19.55 | 5.07 |

**NOTE**

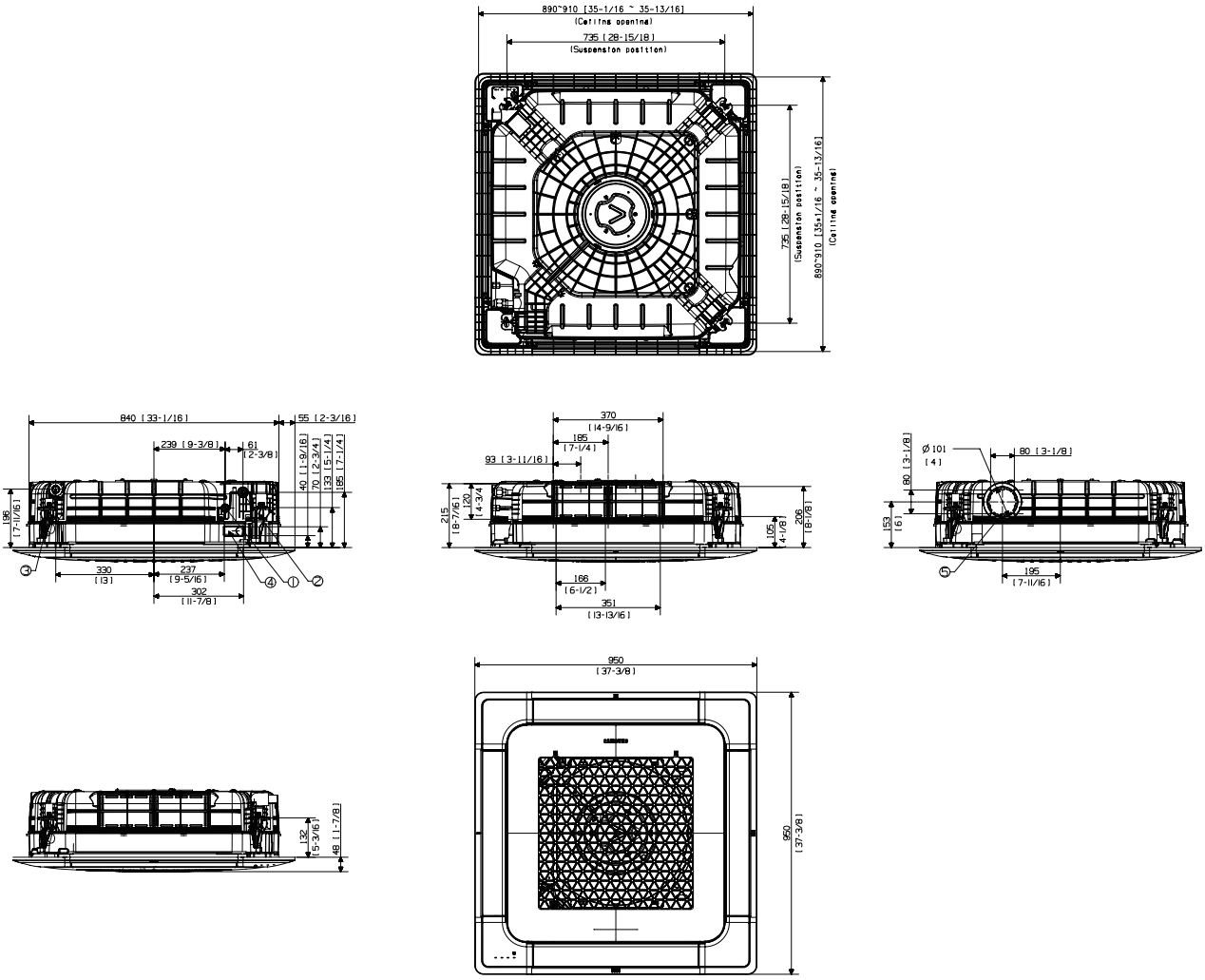
- The performance table shows the average value of each conditions.

# 4. Dimensional Drawing

## Wind-Free 4Way Cassette

### AC052/071MN4DKH/EU

Units : mm [inches]




| No. | Name | Description | |
|---|---|---|---|
| | | AC052NN4DKH/EU | AC071NN4DKH/EU |
| 1 | Liquid pipe connection | Φ6.35(1/4) | |
| 2 | Gas pipe connection | Φ12.7(1/2) | Φ15.88(5/8) |
| 3 | Drain pipe connection | VP-25(OD32, ID25) | |
| 4 | Power supply & Communication wiring conduit | | |
| 5 | Fresh air intake knockout hole | Φ10[4] , Use M4 Screw | |

**NOTE**

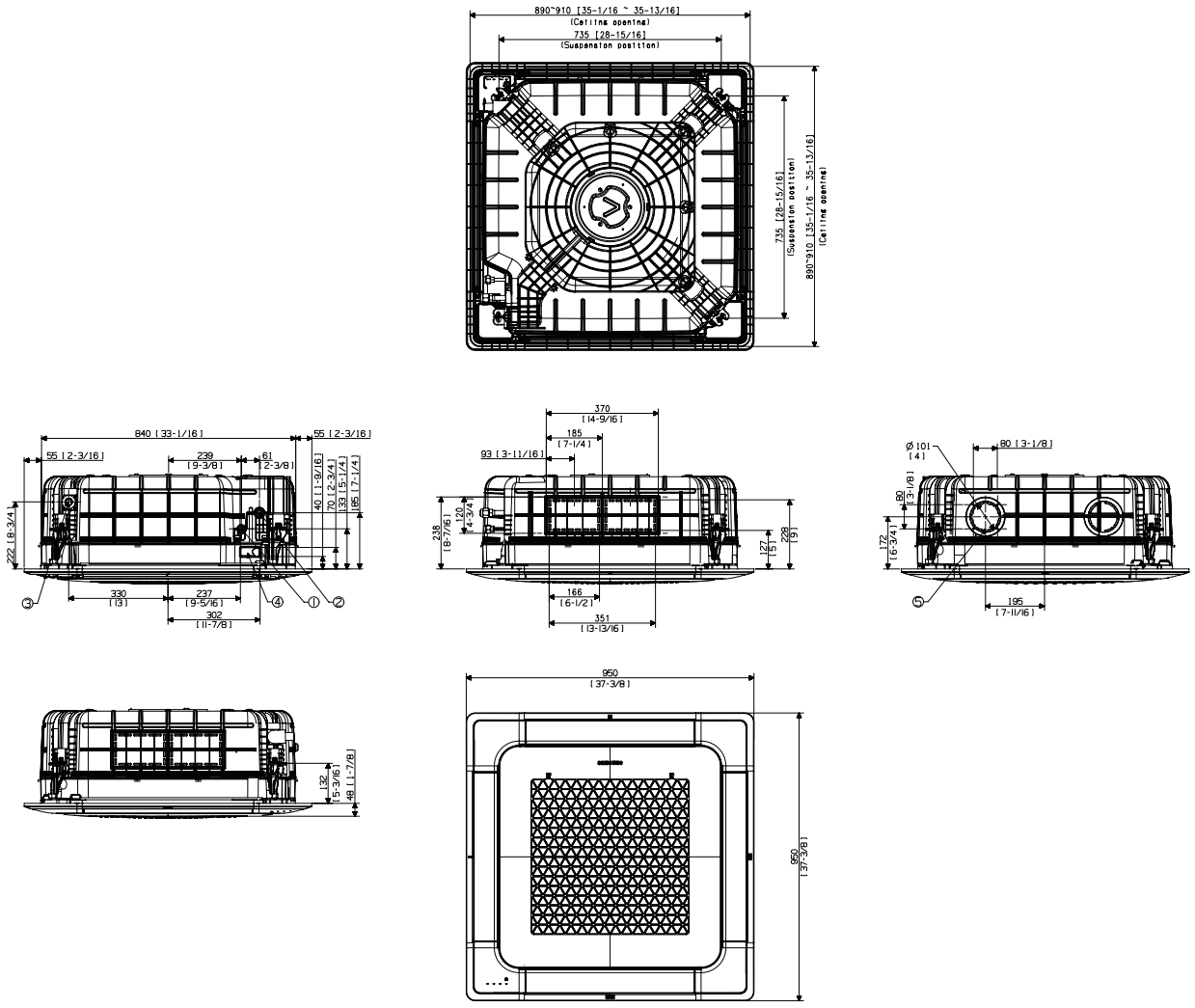
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

# 4. Dimensional Drawing

## Wind-Free 4Way Cassette

### AC090/100/120/140MN4DKH/EU

Units : mm [inches]




| No. | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | Φ9.52(3/8) |
| 2 | Gas pipe connection | Φ15.88(5/8) |
| 3 | Drain pipe connection | VP-25(OD32, ID25) |
| 4 | Power supply & Communication wiring conduit | |
| 5 | Fresh air intake knockout hole | Φ10[4] , Use M4 Screw |

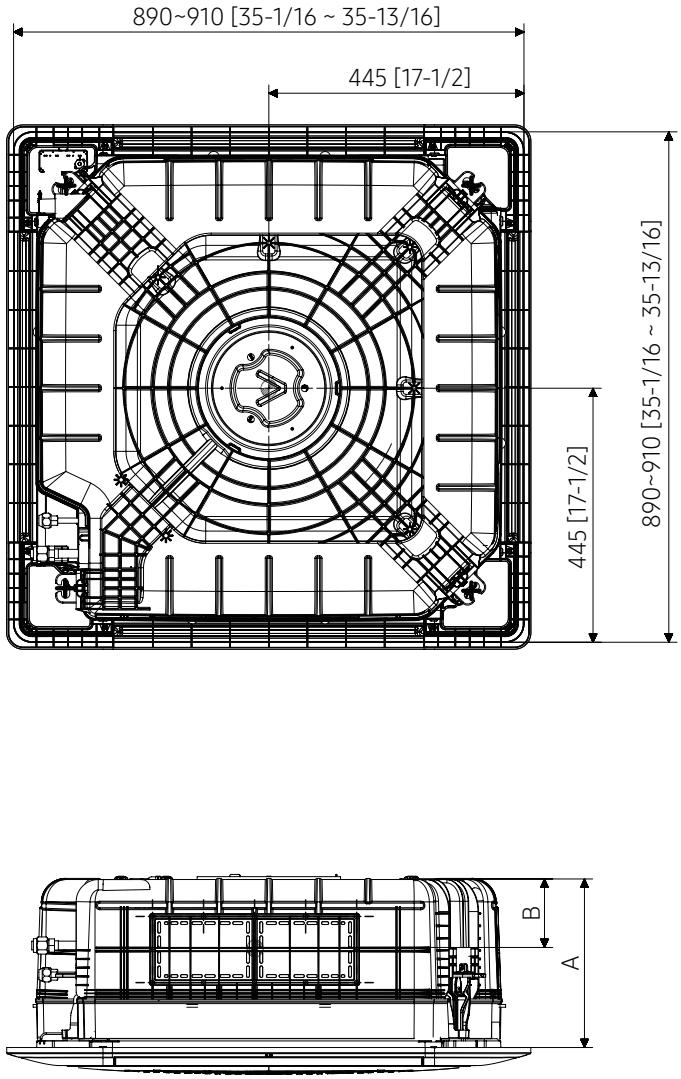
**NOTE**

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

# 5. Center of Gravity

## Wind-Free 4Way Cassette

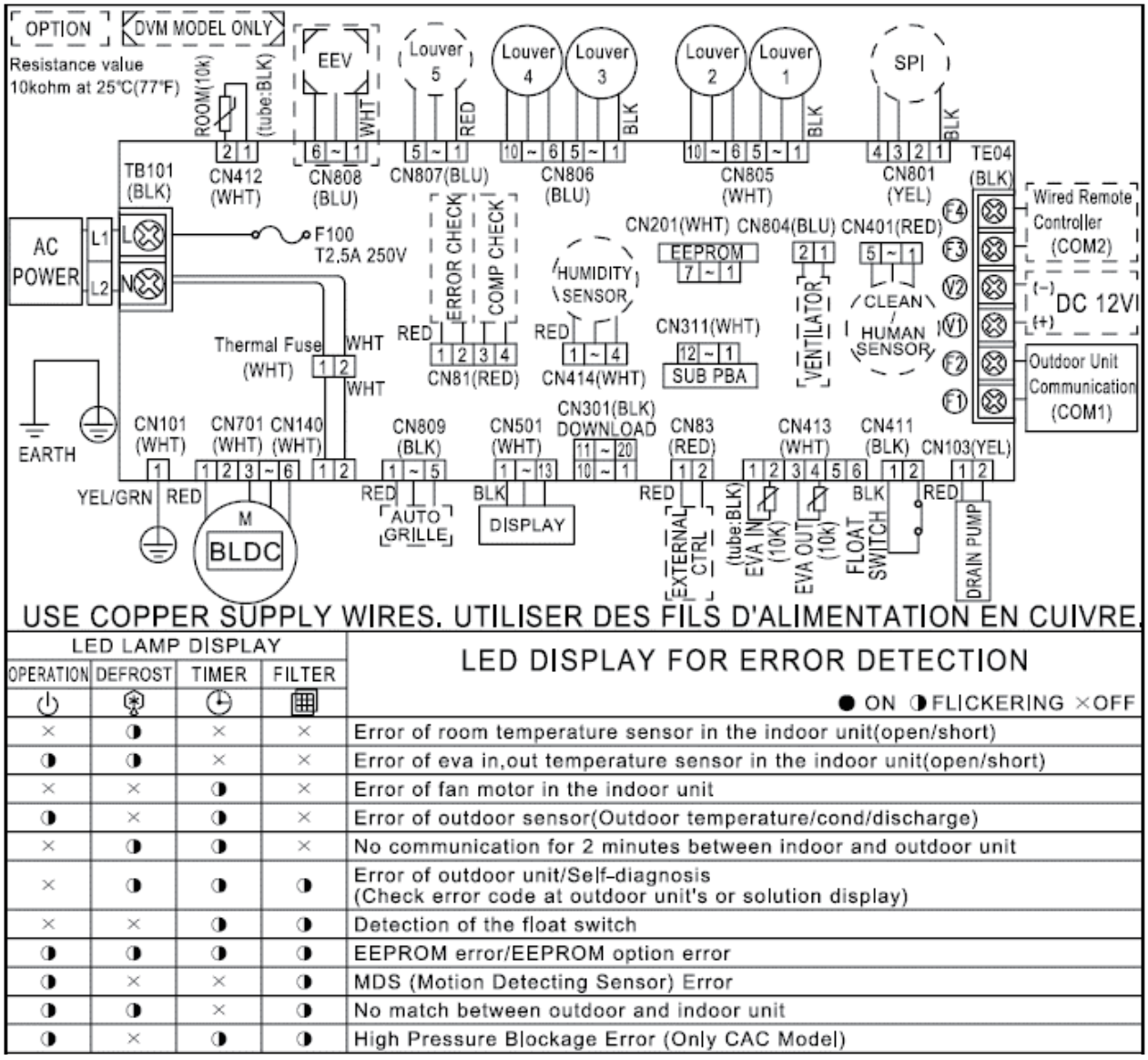
Units : mm [inches]




| | A | B |
|---|---|---|
| ~ 7.1kW | 221 [8-11/16] | 70 [2-3/4] |
| 9kW ~ 14kW | 305 [12] | 130 [5-1/8] |

# 6. Electrical Wiring Diagram

## Wind-Free 4Way Cassette




| LED LAMP DISPLAY | | | | LED DISPLAY FOR ERROR DETECTION |
|---|---|---|---|---|
| OPERATION | DEFROST | TIMER | FILTER | ● ON ◑ FLICKERING × OFF |
| × | ◑ | × | × | Error of room temperature sensor in the indoor unit(open/short) |
| ◑ | ◑ | × | × | Error of eva in,out temperature sensor in the indoor unit(open/short) |
| × | × | ◑ | × | Error of fan motor in the indoor unit |
| ◑ | × | ◑ | × | Error of outdoor sensor(Outdoor temperature/cond/discharge) |
| × | ◑ | ◑ | × | No communication for 2 minutes between indoor and outdoor unit |
| × | ◑ | ◑ | ◑ | Error of outdoor unit/Self-diagnosis (Check error code at outdoor unit's or solution display) |
| × | × | ◑ | ◑ | Detection of the float switch |
| ◑ | ◑ | ◑ | ◑ | EEPROM error/EEPROM option error |
| ◑ | × | × | ◑ | MDS (Motion Detecting Sensor) Error |
| ◑ | ◑ | × | ◑ | No match between outdoor and indoor unit |
| ◑ | × | ◑ | ◑ | High Pressure Blockage Error (Only CAC Model) |

| | | | | | |
|---|---|---|---|---|---|
| SUB PBA | Printed Circuit Board(SUB) | SPI | S-Plasma ion | ROOM(10K) | Thermistor ROOM OUT(10K) |
| M-BLDC | BLDC Motor | EEV | Electronic Expansion Valve | EVA-IN(10K) | Thermistor EVA IN(10K) |
| | | EXT_CONTROL | EXTERNAL_CONTROL | EVA-OUT(10K) | Thermistor EVA OUT(10K) |

### NOTE

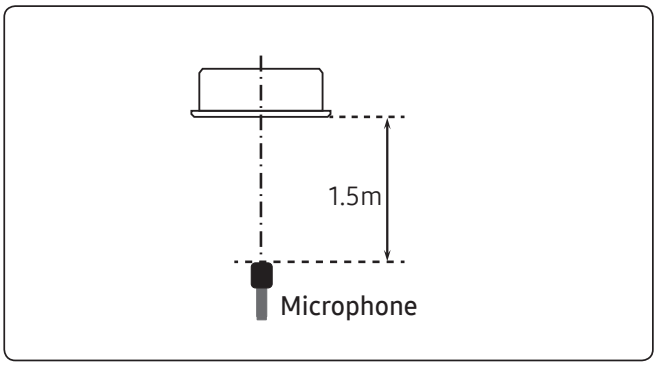
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ⊏⊐⊐⊐ : connector, N : The wire quantity

# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Pressure level

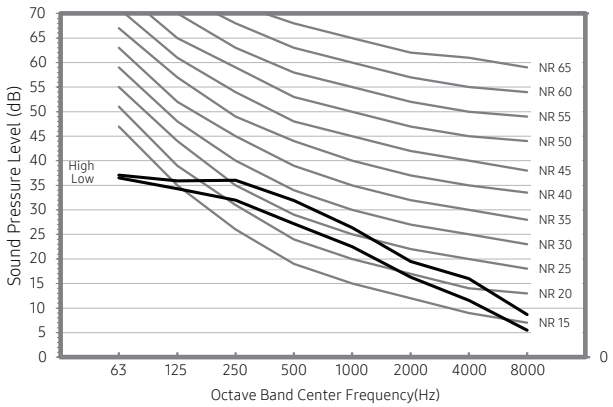
Unit: dB(A)



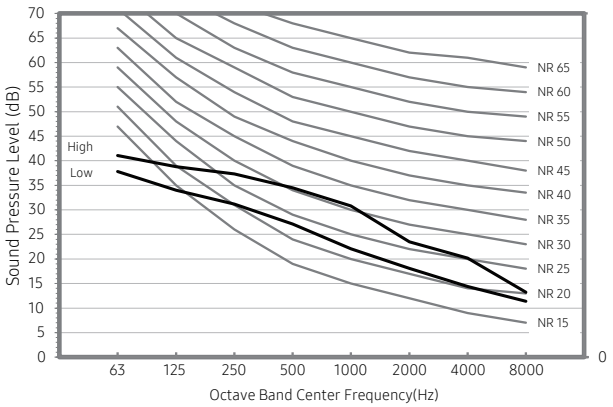

| Model | High | MID | LOW |
|---|---|---|---|
| AC052NN4DKH/EU | 33 | 31 | 29 |
| AC071NN4DKH/EU | 36 | 33 | 29 |
| AC090NN4DKH/EU | 43 | 38 | 33 |
| AC100NN4DKH/EU | 44 | 39 | 33 |

- NR Curve

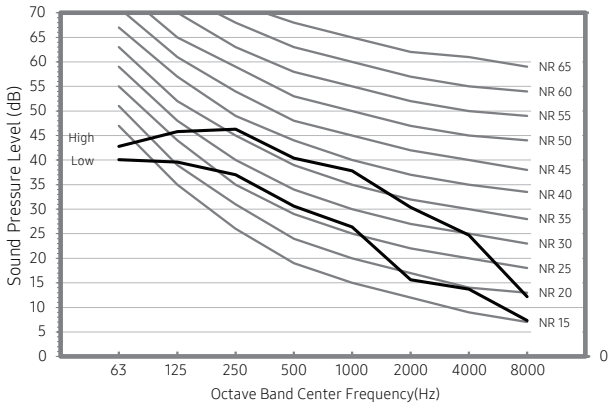
1) AC052NN4DKH/EU



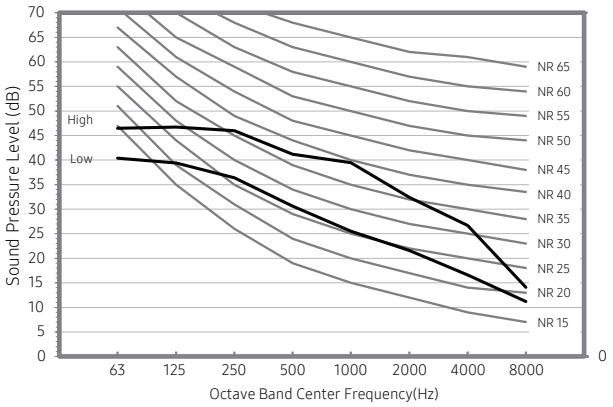

2) AC071NN4DKH/EU




3) AC090NN4DKH/EU




4) AC100NN4DKH/EU




### NOTE

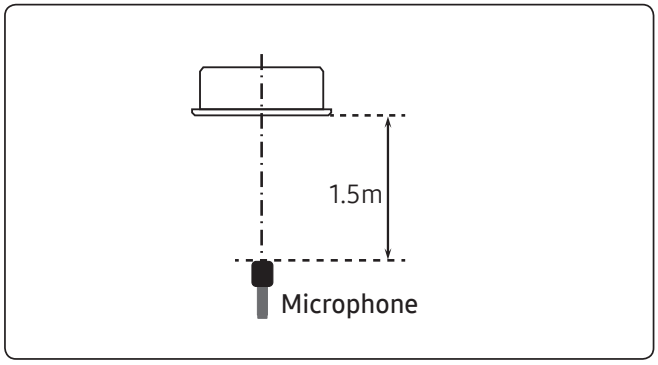
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Pressure level

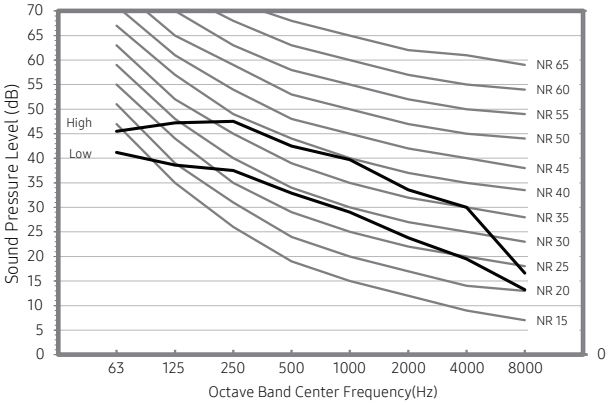
Unit: dB(A)



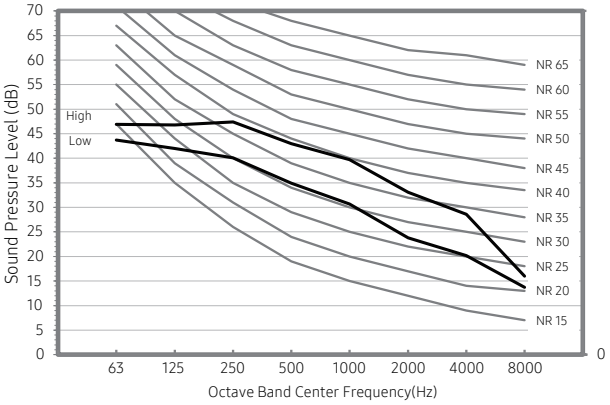

| Model | High | MID | LOW |
|---|---|---|---|
| AC120NN4DKH/EU | 45 | 40 | 35 |
| AC140NN4DKH/EU | 45 | 41 | 37 |

- NR Curve

5) AC120NN4DKH/EU




6) AC140NN4DKH/EU




**NOTE**

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 7. Sound Data

## Wind-Free 4Way Cassette

### Sound Power level

**NOTE**

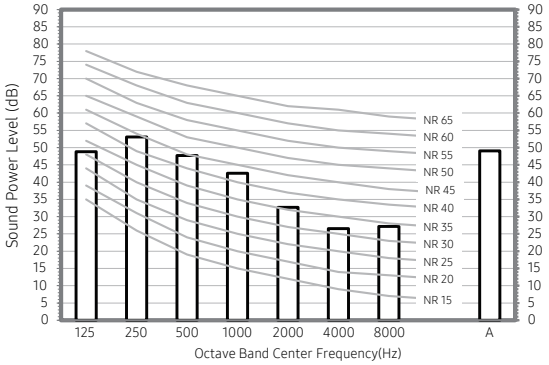
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

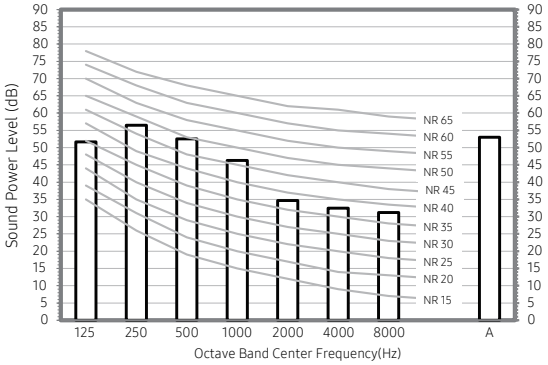
| Model | Power |
|---|---|
| AC052NN4DKH/EU | 49 |
| AC071NN4DKH/EU | 53 |
| AC090NN4DKH/EU | 60 |
| AC100NN4DKH/EU | 61 |
| AC120NN4DKH/EU | 61 |
| AC140NN4DKH/EU | 61 |

- NR Curve

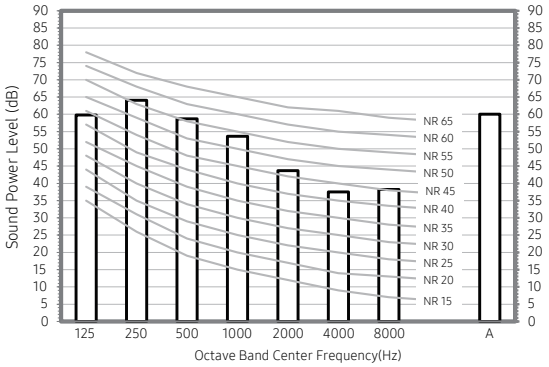
1) AC052NN4DKH/EU



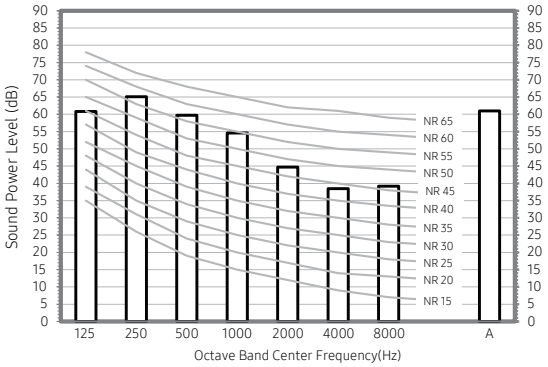

2) AC071NN4DKH/EU



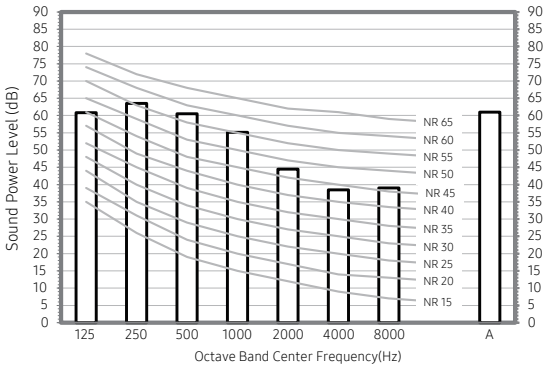

3) AC090NN4DKH/EU



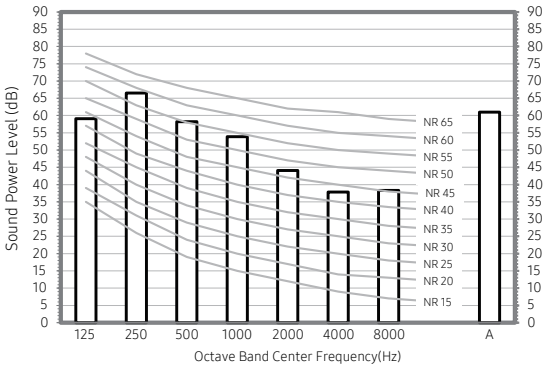

4) AC100NN4DKH/EU




5) AC120NN4DKH/EU




6) AC140NN4DKH/EU



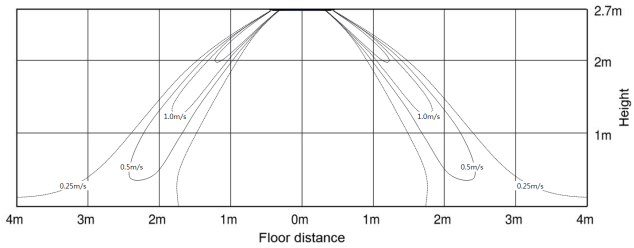
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC052NN4DKH/EU

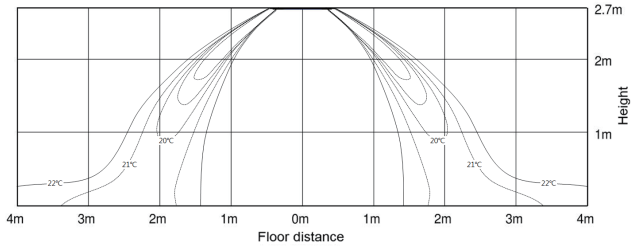
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



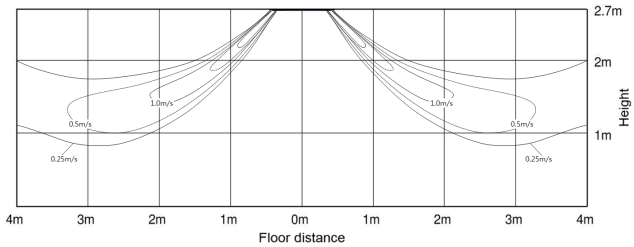

- Cooling temperature distribution

  (Discharge angle : 37 degree)



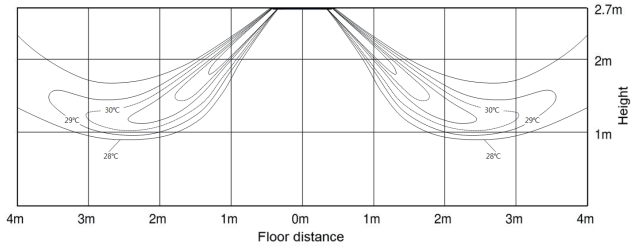

- Heating Air Velocity distribution

  (Discharge angle : 43 degree)




- Heating temperature distribution

  (Discharge angle : 43 degree)



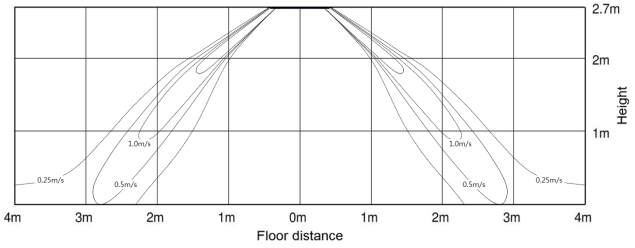
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC071NN4DKH/EU

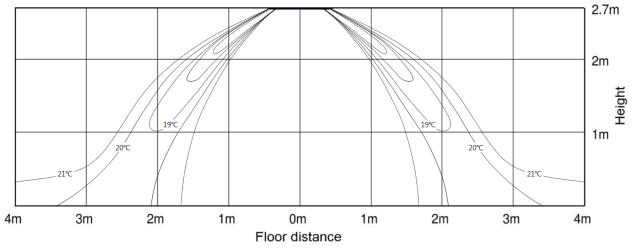
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



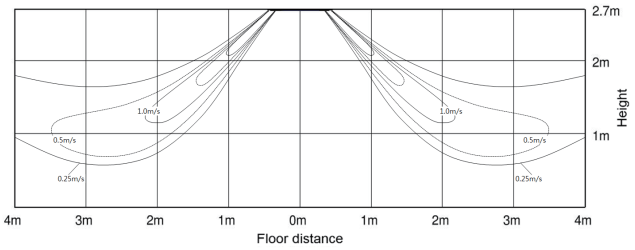

- Cooling temperature distribution

  (Discharge angle : 37 degree)



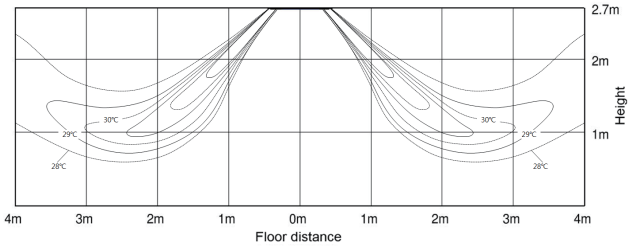

- Heating Air Velocity distribution

  (Discharge angle : 43 degree)




- Heating temperature distribution

  (Discharge angle : 43 degree)



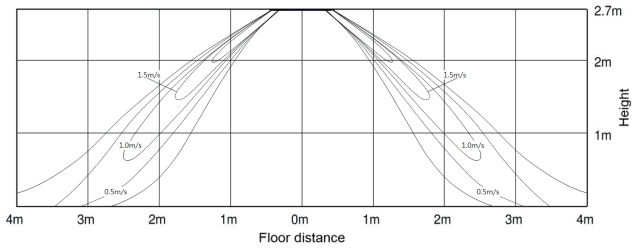
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC090NN4DKH/EU

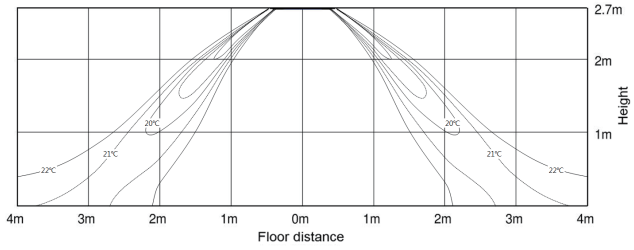
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



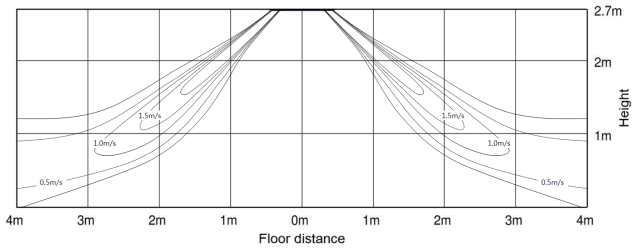

- Cooling temperature distribution

  (Discharge angle : 37 degree)



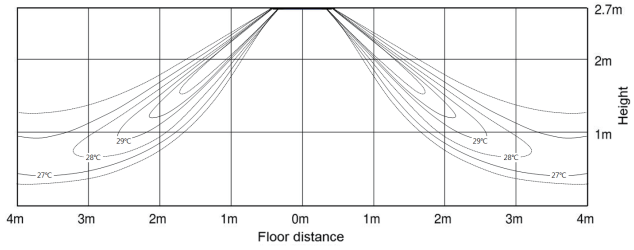

- Heating Air Velocity distribution

  (Discharge angle : 43 degree)




- Heating temperature distribution

  (Discharge angle : 43 degree)



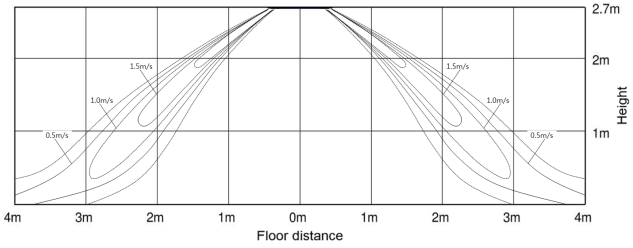
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC100NN4DKH/EU

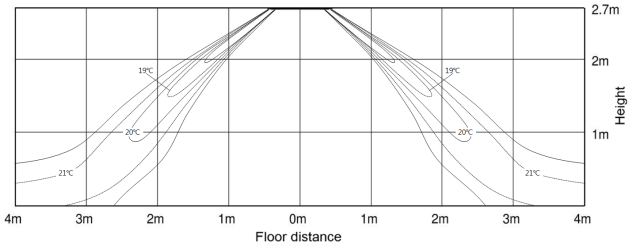
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



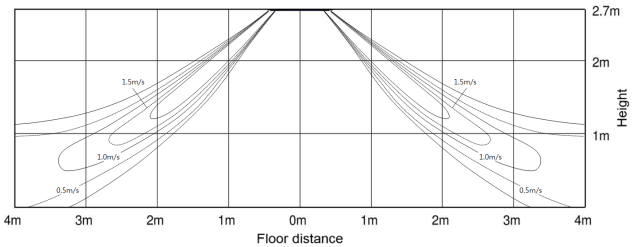

- Cooling temperature distribution

  (Discharge angle : 37 degree)



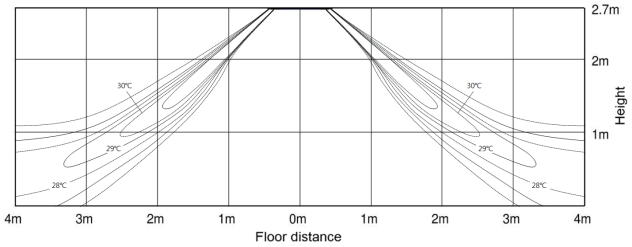

- Heating Air Velocity distribution

  (Discharge angle : 43 degree)




- Heating temperature distribution

  (Discharge angle : 43 degree)



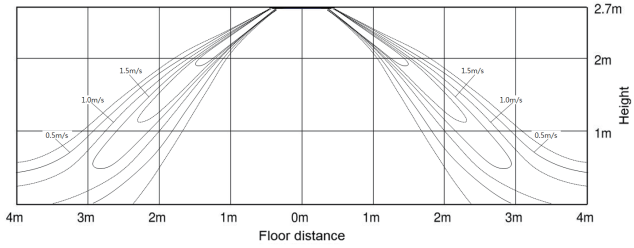
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC120NN4DKH/EU

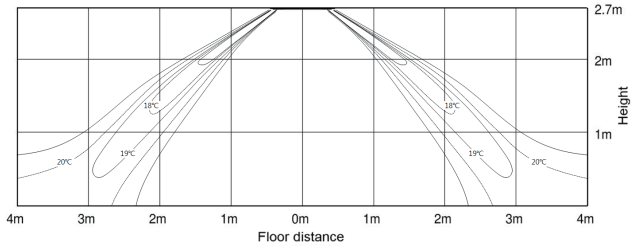
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



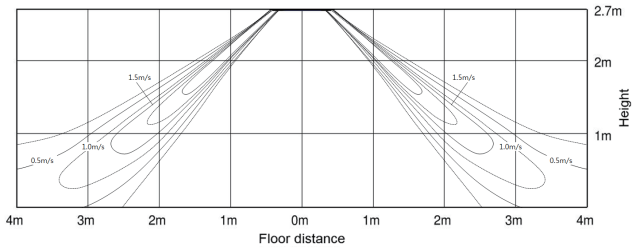

- Cooling temperature distribution

  (Discharge angle : 37 degree)



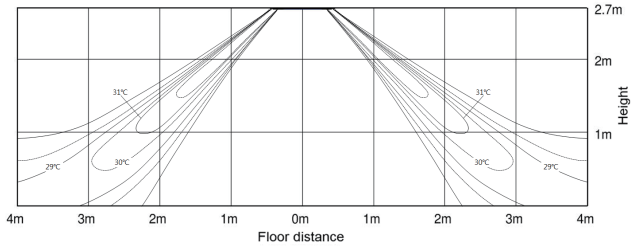

- Heating Air Velocity distribution

  (Discharge angle : 43 degree)




- Heating temperature distribution

  (Discharge angle : 43 degree)



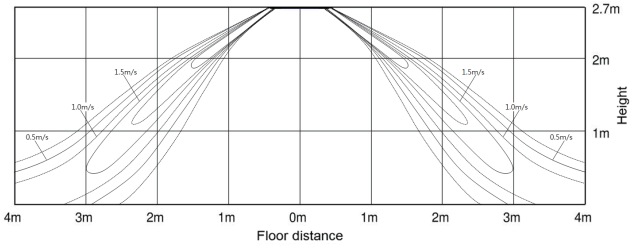
# 8. Temperature and air flow distribution

## Wind-Free 4Way Cassette

### AC140NN4DKH/EU

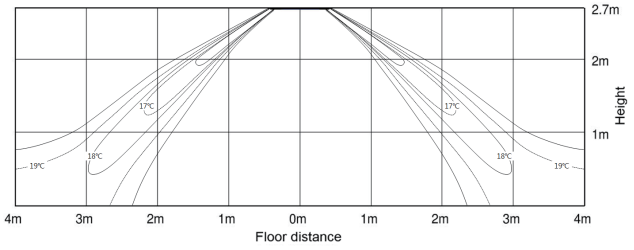
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



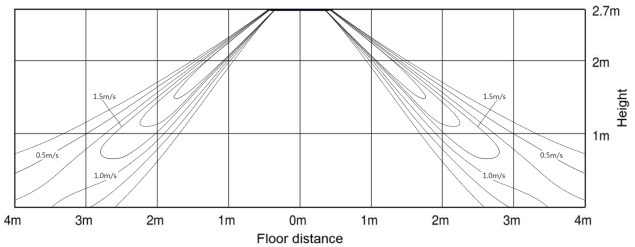

- Cooling temperature distribution

  (Discharge angle : 37 degree)



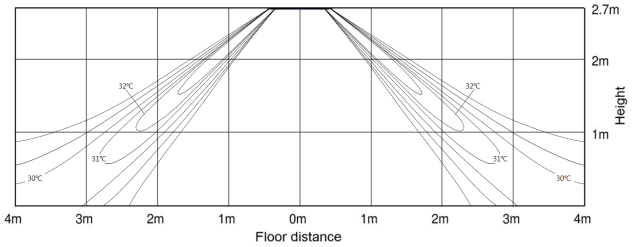

- Heating Air Velocity distribution

  (Discharge angle : 43 degree)




- Heating temperature distribution

  (Discharge angle : 43 degree)



# Outdoor Units


1. Summary Table 69
2. Dimensional Drawing 70
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4. Electrical Wiring Diagram 78
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6. Capacity Correction 89
7. Operation Range 93
8. Piping Diagram 94

# 1. Summary Table

## Outdoor Units

Performance Characteristics

| Capacity/ kW | Model Code | Net Size (WxHxD mm) | Net Weight (kg) | Airflow (CMM) | Sound Pressure Level (dBA) | | Sound Power Level (dBA) |
|---|---|---|---|---|---|---|---|
| | | | | | Cooling | Heating | |
| 2.6 | AC026MXADKH | 790 x 548 x 285 | 32.8 | 29 | 46 | 47 | 59 |
| 3.5 | AC035MXADKH | 790 x 548 x 285 | 32.8 | 30 | 48 | 48 | 61 |
| 5.2 | AC052MXADKH | 880 x 638 x 310 | 43.8 | 40 | 48 | 48 | 62 |
| 6 | AC060MXADKH | 880 x 638 x 310 | 43.8 | 40 | 49 | 49 | 62 |
| 7.1 | AC071MXADKH | 880 x 798 x 310 | 53 | 51 | 49 | 51 | 65 |
| 9 | AC090MXADKH | 940 x 998 x 330 | 72 | 78 | 52 | 53 | 68 |
| 10 | AC100MXADKH | 940 x 998 x 330 | 72 | 78 | 52 | 54 | 69 |
| 10 | AC100MXADNH | 940 x 998 x 330 | 72 | 78 | 52 | 54 | 69 |
| 12 | AC120MXADKH | 940 x 998 x 330 | 77 | 78 | 54 | 56 | 70 |
| 12 | AC120MXADNH | 940 x 998 x 330 | 77 | 78 | 54 | 56 | 70 |
| 14 | AC140MXADKH | 940 x 1210 x 330 | 80 | 111 | 53 | 54 | 69 |
| 14 | AC140MXADNH | 940 x 1210 x 330 | 80 | 111 | 53 | 54 | 69 |

**NOTE**

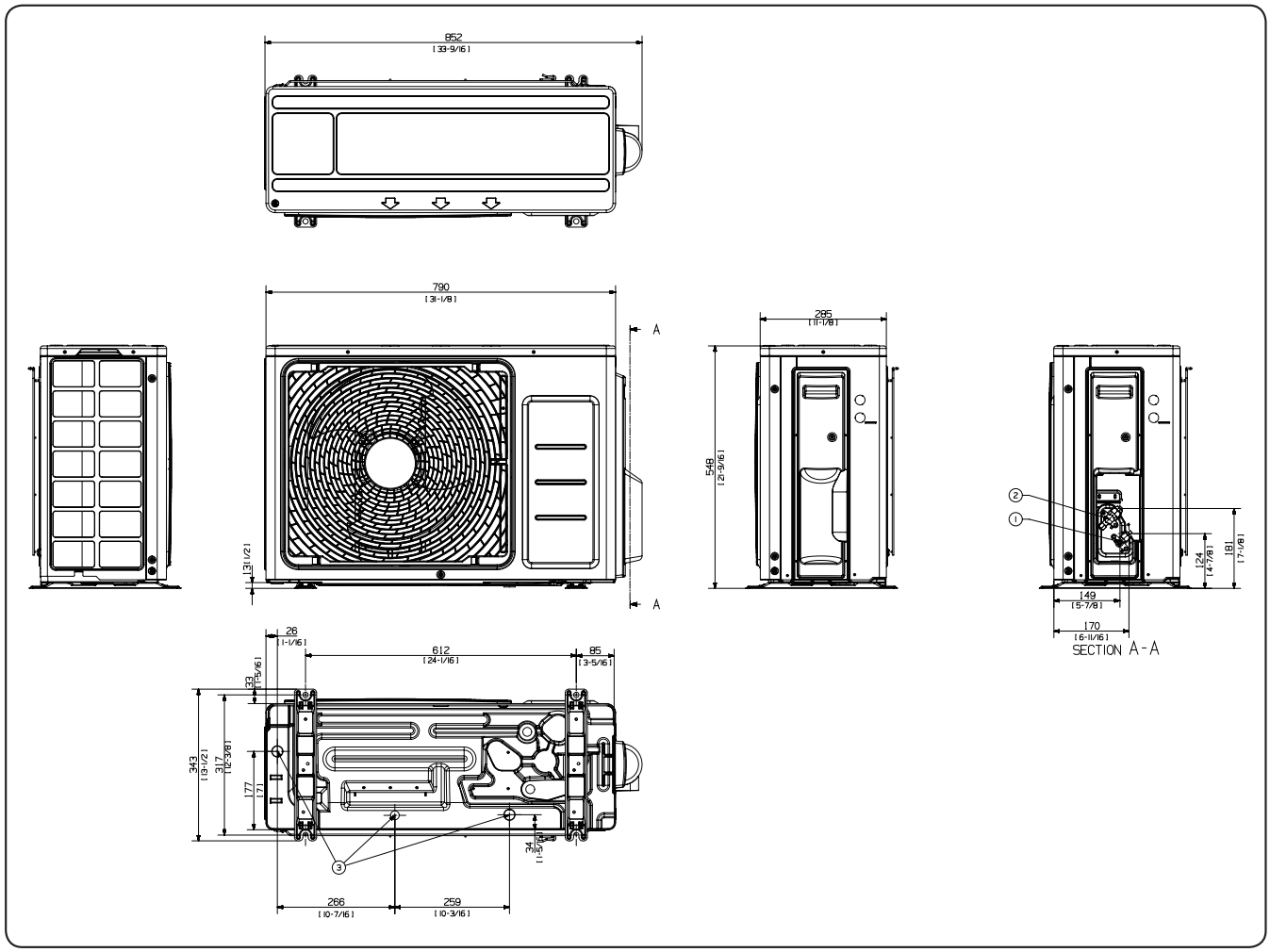
- Sound power level is based on cooling operation.

# 2. Dimensional Drawing

## Outdoor Units

### AC026/035MXADKH

Units : mm [inches]



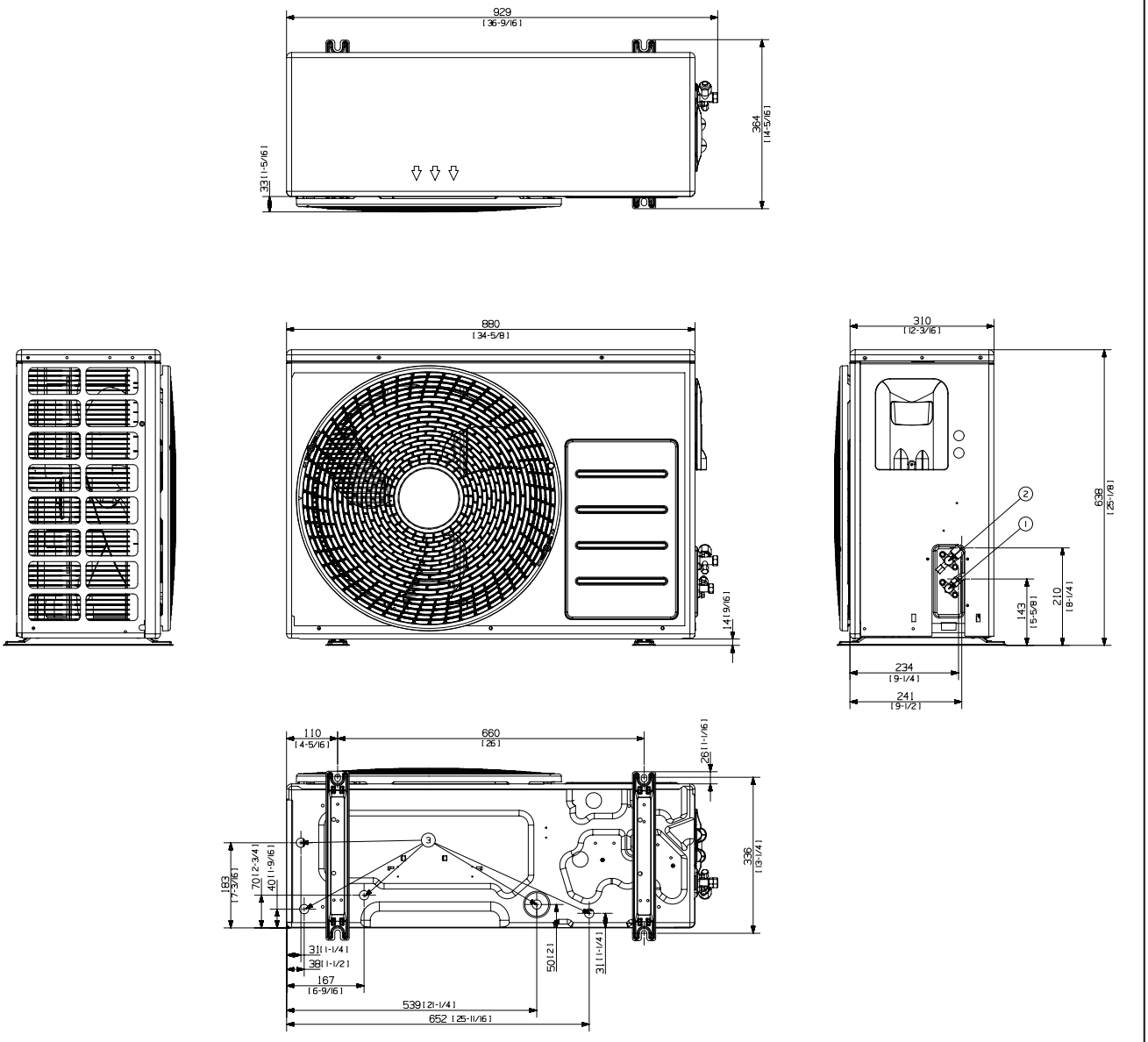

| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant liquid pipe | Φ6.35(1/4) |
| 2 | Refrigerant gas pipe | Φ9.52(3/8) |
| 3 | Drain Hole | |

# 2. Dimensional Drawing

## Outdoor Units

### AC052/060MXADKH

Units : mm [inches]



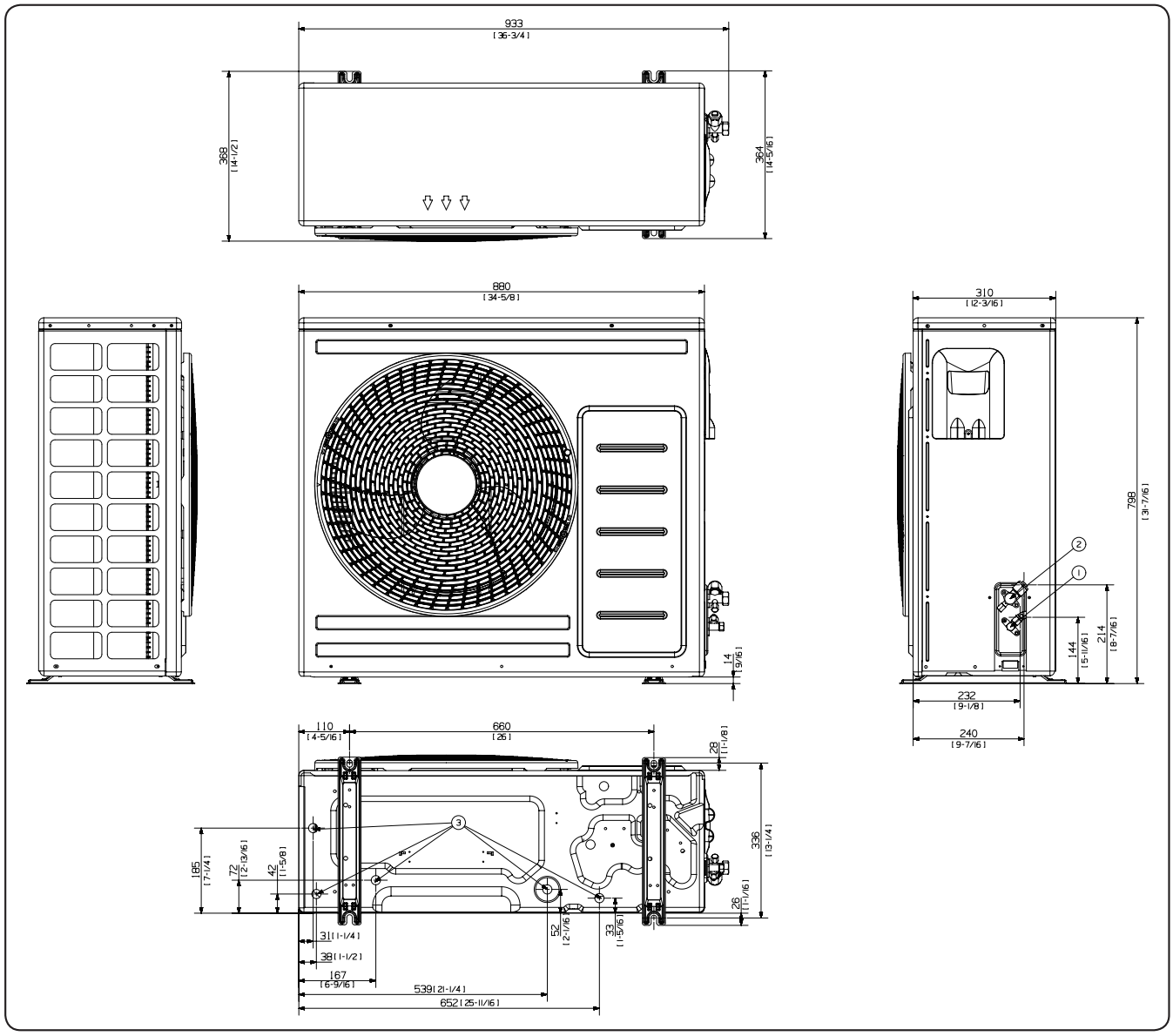

| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant liquid pipe | Φ6.35(1/4) |
| 2 | Refrigerant gas pipe | Φ12.7(1/2) |
| 3 | Drain Hole | |

# 2. Dimensional Drawing

## Outdoor Units

### AC071MXADKH

Units : mm [inches]



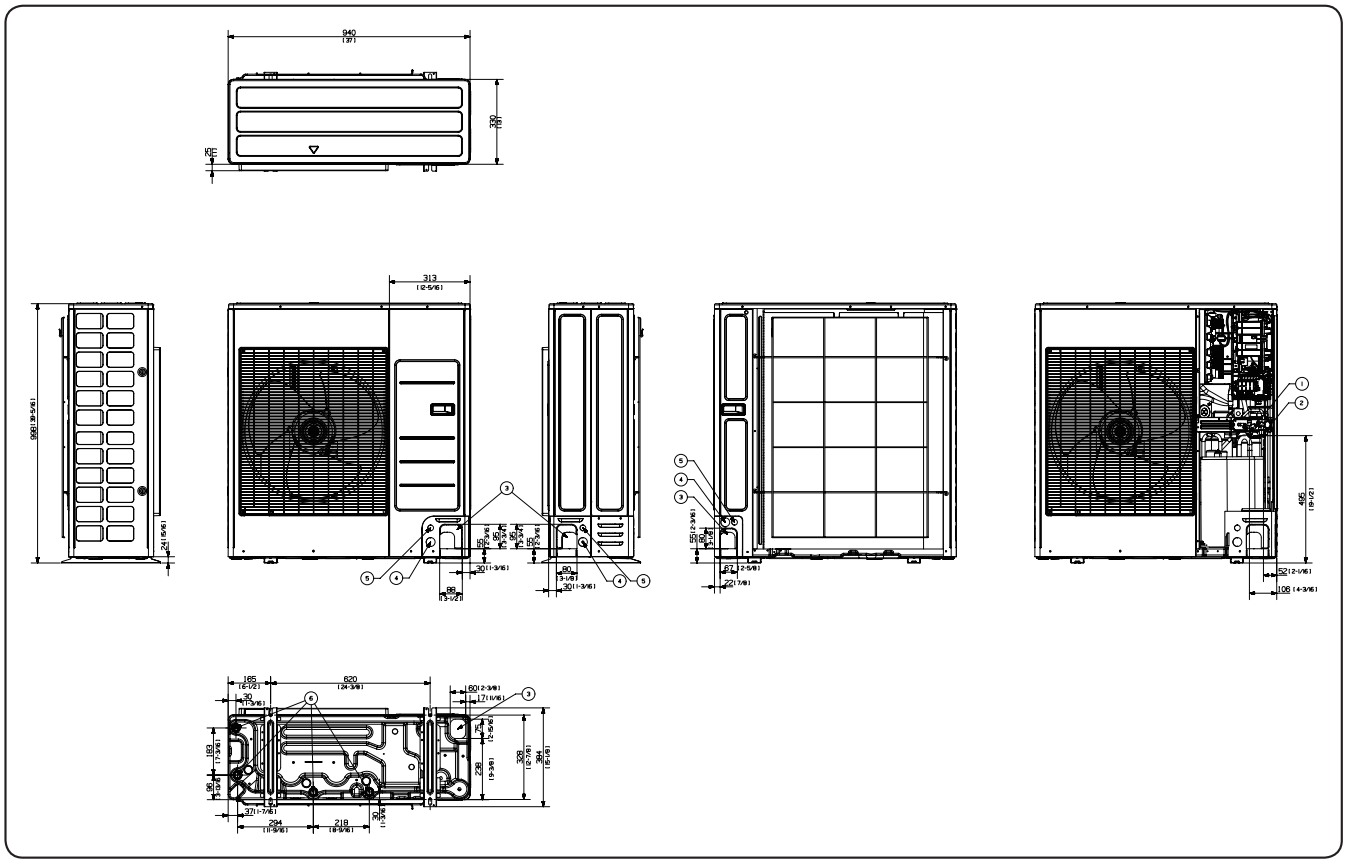

| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant liquid pipe | Φ6.35(1/4) |
| 2 | Refrigerant gas pipe | Φ15.88(5/8) |
| 3 | Drain Hole | |

# 2. Dimensional Drawing

## Outdoor Units

### AC090/100/120MXAD*H

Units : mm [inches]



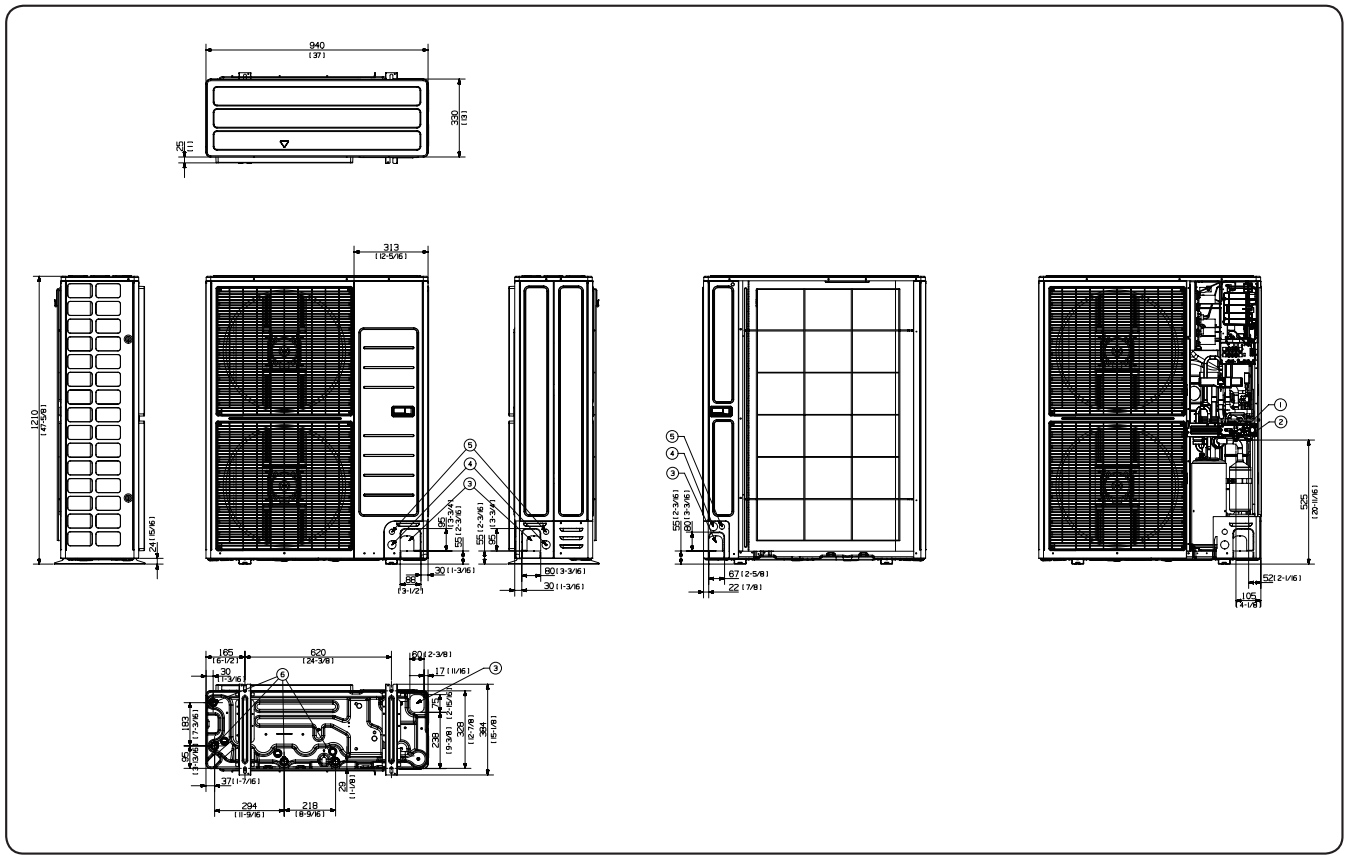
| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant liquid pipe | Φ9.52(3/8) |
| 2 | Refrigerant gas pipe | Φ15.88(5/8) |
| 3 | Piping intake knockout hole | Front / Side / Rear / Bottom |
| 4 | Power wiring conduit | Front / Side / Rear , Φ34 [1-3/8] |
| 5 | Communication wiring conduit | Front / Side / Rear , Φ22 [7/8] |
| 6 | Drain Hole | Connect with the provided drain plug |

# 2. Dimensional Drawing

## Outdoor Units

### AC140MXAD*H

Units : mm [inches]



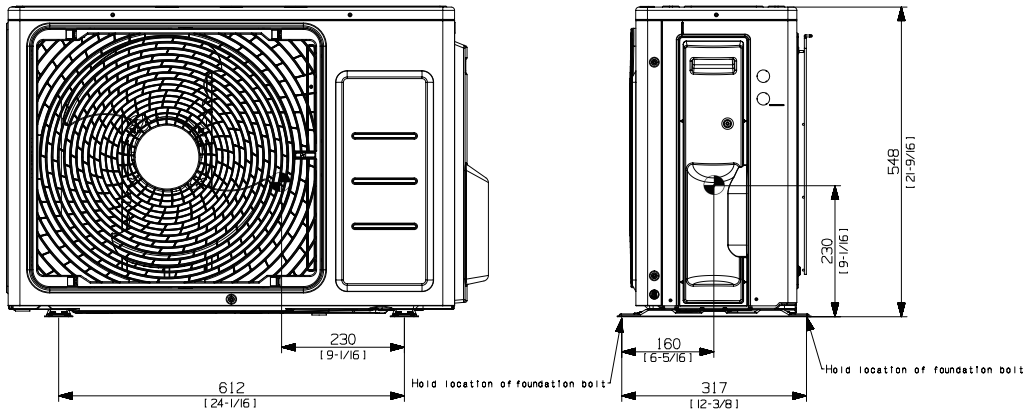
| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant liquid pipe | Φ9.52(3/8) |
| 2 | Refrigerant gas pipe | Φ15.88(5/8) |
| 3 | Piping intake knockout hole | Front / Side / Rear / Bottom |
| 4 | Power wiring conduit | Front / Side / Rear , Φ34 [1-3/8] |
| 5 | Communication wiring conduit | Front / Side / Rear , Φ22 [7/8] |
| 6 | Drain Hole | Connect with the provided drain plug |

# 3. Center of Gravity

## Outdoor Units

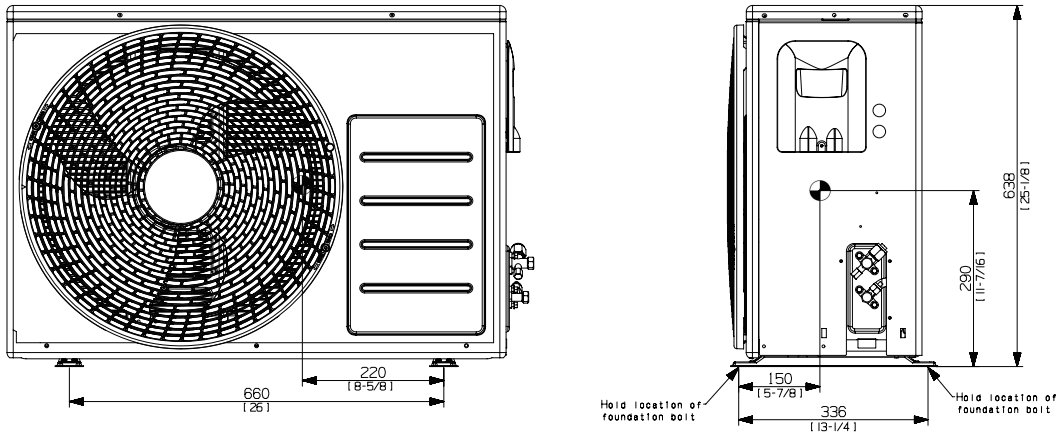
### AC026/035MXADKH

Units : mm [inches]




### AC052/060MXADKH

Units : mm [inches]

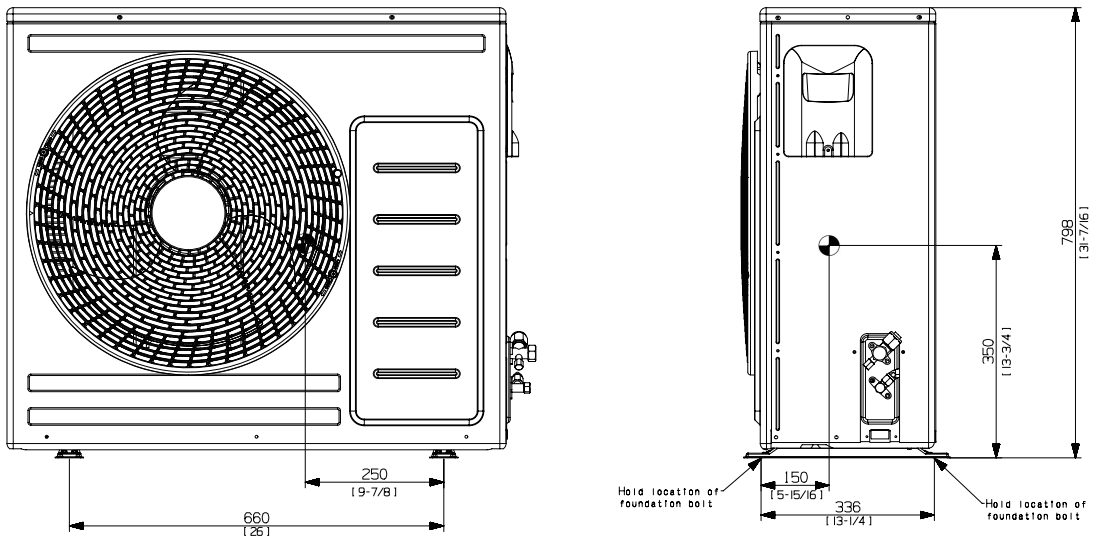


# 3. Center of Gravity

## Outdoor Units

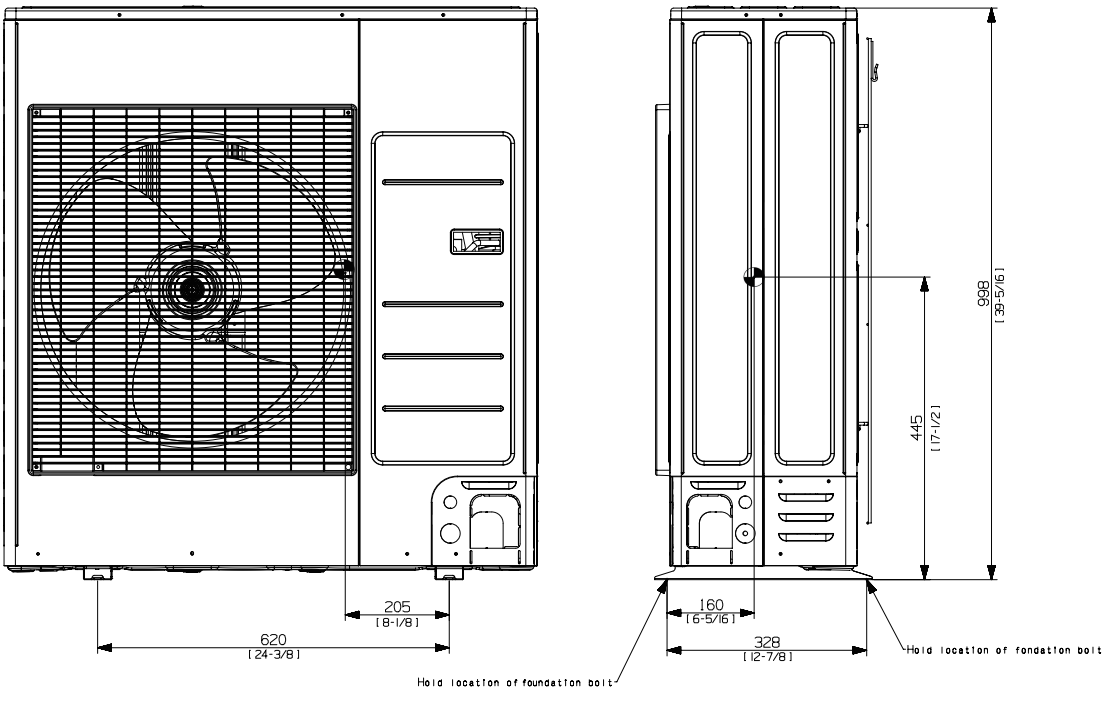
### AC071MXADKH

Units : mm [inches]




### AC090/100/120MXAD*H

Units : mm [inches]

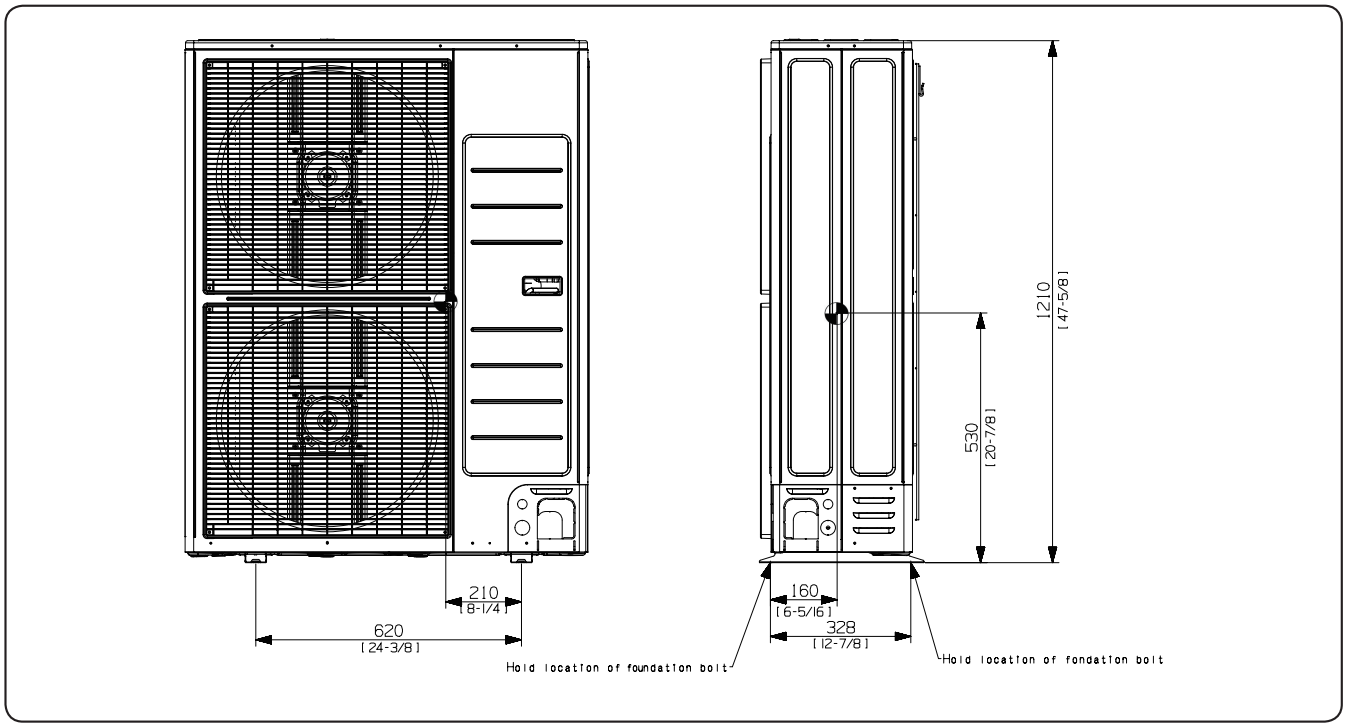


# 3. Center of Gravity

## Outdoor Units

### AC140MXAD*H

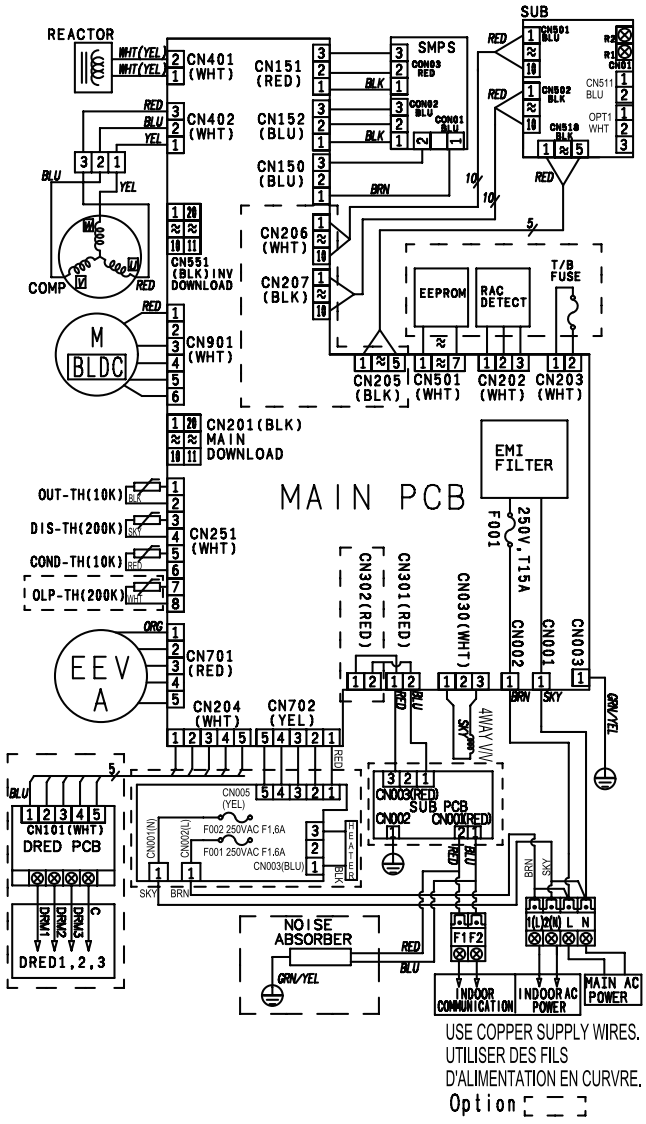
Units : mm [inches]



# 4. Electrical Wiring Diagram

## Outdoor Units

### AC026/035MXADKH



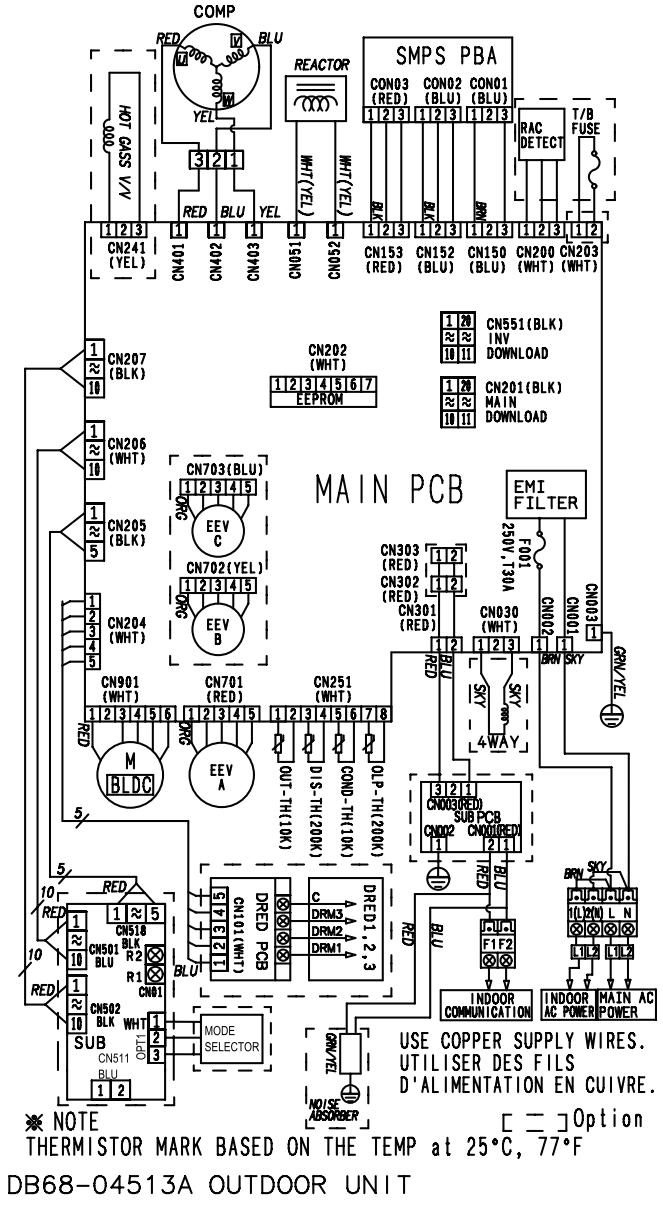

DB68-04512A ※NOTE - 25°C (77°F) at 10Kohm / 200Kohm

| | | | | | |
|---|---|---|---|---|---|
| MAIN PCB | Printed circuit board(MAIN) | EEV | Electronic Expansion Valve | DIS-TH(200K) | Thermistor DISCHARGE |
| DRED PCB | Printed circuit board(DRED) | M-BLDC | BLDC Motor | OUT-TH(10K) | Thermistor AMBIENT |
| SMPS | Printed circuit board(SMPS) | OLP-TEMP | Thermistor OLP | COND-TH(10K) | Thermistor CONDENSOR |
| SUB | Printed circuit board(SUB) | | | | |

# 4. Electrical Wiring Diagram

## Outdoor Units

### AC052/060/071MXADKH

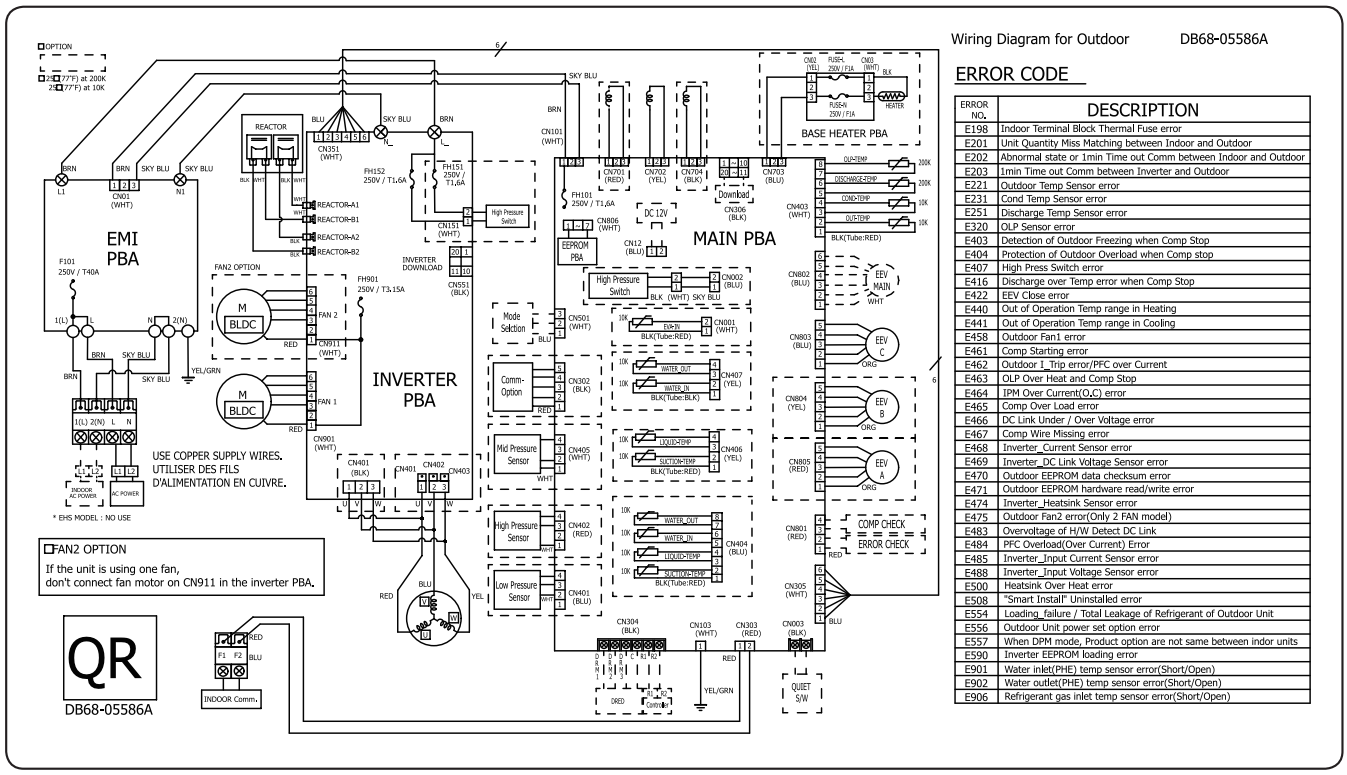



| | | | | | |
|---|---|---|---|---|---|
| MAIN PCB | Printed circuit board(MAIN) | EEV | Electronic Expansion Valve | DIS-TH(200K) | Thermistor DISCHARGE |
| DRED PCB | Printed circuit board(DRED) | M-BLDC | BLDC Motor | OUT-TH(10K) | Thermistor AMBIENT |
| SMPS | Printed circuit board(SMPS) | HOT GASS V/V | HOT GASS Valve | COND-TH(10K) | Thermistor CONDENSOR |
| SUB | Printed circuit board(SUB) | OLP-TEMP | Thermistor OLP | | |

# 4. Electrical Wiring Diagram

## Outdoor Units

### AC090/100/120/140MXADKH




ERROR CODE

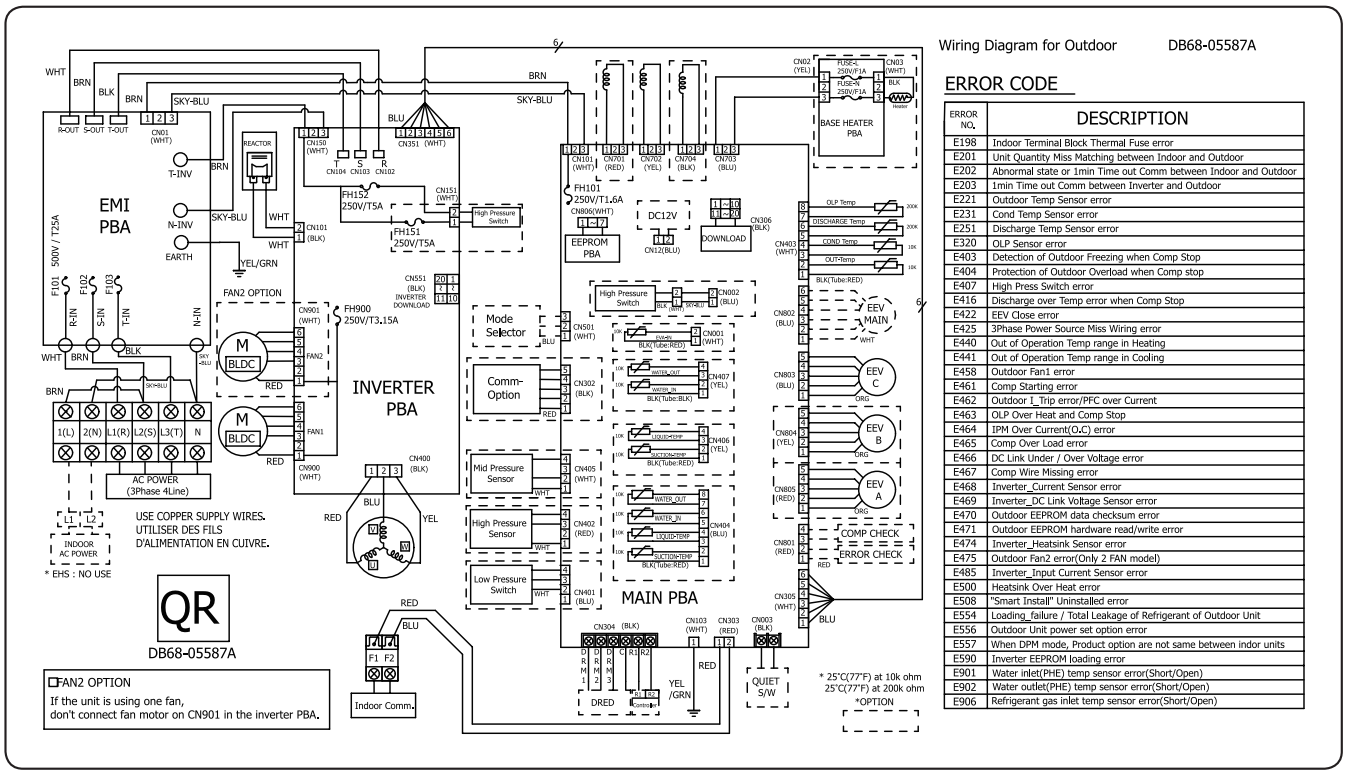
| ERROR NO. | DESCRIPTION |
|---|---|
| E198 | Indoor Terminal Block Thermal Fuse error |
| E201 | Unit Quantity Miss Matching between Indoor and Outdoor |
| E202 | Abnormal state or 1min Time out Comm between Indoor and Outdoor |
| E203 | 1min Time out Comm between Inverter and Outdoor |
| E221 | Outdoor Temp Sensor error |
| E231 | Cond Temp Sensor error |
| E251 | Discharge Temp Sensor error |
| E320 | OLP Sensor error |
| E403 | Detection of Outdoor Freezing when Comp Stop |
| E404 | Protection of Outdoor Overload when Comp stop |
| E407 | High Press Switch error |
| E416 | Discharge over Temp error when Comp Stop |
| E422 | EEV Close error |
| E440 | Out of Operation Temp range in Heating |
| E441 | Out of Operation Temp range in Cooling |
| E458 | Outdoor Fan1 error |
| E461 | Comp Starting error |
| E462 | Outdoor I_Trip error/PFC over Current |
| E463 | OLP Over Heat and Comp Stop |
| E464 | IPM Over Current(O,C) error |
| E465 | Comp Over Load error |
| E466 | DC Link Under / Over Voltage error |
| E467 | Comp Wire Missing error |
| E468 | Inverter_Current Sensor error |
| E469 | Inverter_DC Link Voltage Sensor error |
| E470 | Outdoor EEPROM data checksum error |
| E471 | Outdoor EEPROM hardware read/write error |
| E474 | Inverter_Heatsink Sensor error |
| E475 | Outdoor Fan2 error(Only 2 FAN model) |
| E483 | Overvoltage of H/W Detect DC Link |
| E484 | PFC Overload(Over Current) Error |
| E485 | Inverter_Input Current Sensor error |
| E488 | Inverter_Input Voltage Sensor error |
| E500 | Heatsink Over Heat error |
| E508 | "Smart Install" Uninstalled error |
| E554 | Loading_failure / Total Leakage of Refrigerant of Outdoor Unit |
| E556 | Outdoor Unit power set option error |
| E557 | When DPM mode, Product option are not same between indor units |
| E590 | Inverter EEPROM loading error |
| E901 | Water inlet(PHE) temp sensor error(Short/Open) |
| E902 | Water outlet(PHE) temp sensor error(Short/Open) |
| E906 | Refrigerant gas inlet temp sensor error(Short/Open) |

| | | | | | |
|---|---|---|---|---|---|
| MAIN PCB | Printed circuit board(MAIN) | EEV | Electronic Expansion Valve | DIS-TEMP | Thermistor DISCHARGE |
| INVERTER PCB | Printed circuit board(INVERTER) | M-BLDC | BLDC Motor | OUT-TEMP | Thermistor AMBIENT |
| EMI PCB | Printed circuit board(EMI) | OLP-TEMP | Thermistor OLP | COND-TEMP | Thermistor CONDENSOR |

# 4. Electrical Wiring Diagram

## Outdoor Units

### AC100/120/140MXADNH




| | | | | | |
|---|---|---|---|---|---|
| MAIN PCB | Printed circuit board(MAIN) | EEV | Electronic Expansion Valve | DIS-TEMP | Thermistor DISCHARGE |
| INVERTER PCB | Printed circuit board(INVERTER) | M-BLDC | BLDC Motor | OUT-TEMP | Thermistor AMBIENT |
| EMI PCB | Printed circuit board(EMI) | OLP-TEMP | Thermistor OLP | COND-TEMP | Thermistor CONDENSOR |

## NOTE

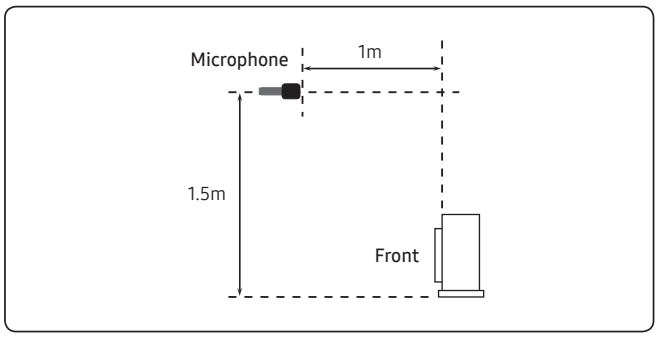
- This wiring diagram applies only to the outdoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N : The wire quantity

# 5. Sound Data

## Outdoor Units

### Sound Pressure level

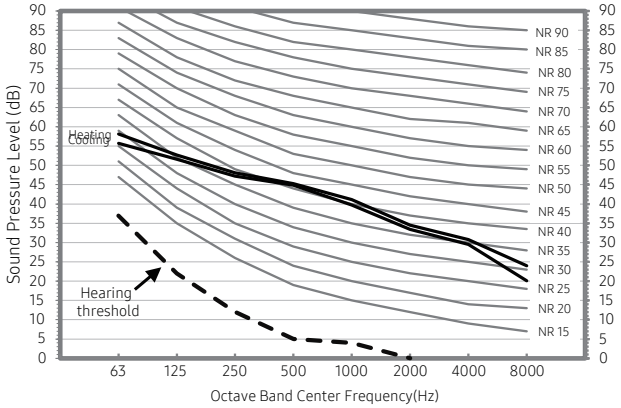
Unit: dB(A)



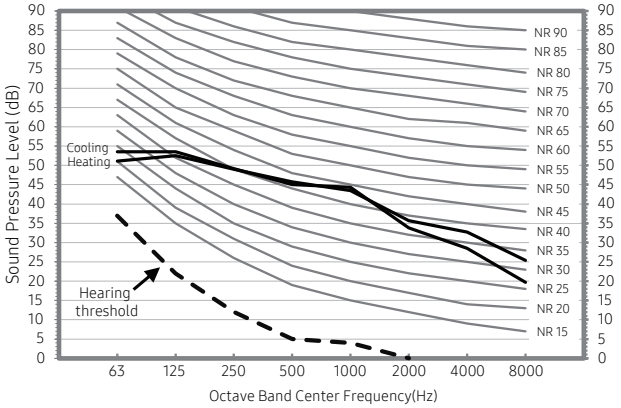

| Model | Cooling | Heating |
|---|---|---|
| AC026MXADKH | 46 | 47 |
| AC035MXADKH | 48 | 48 |
| AC052MXADKH | 48 | 48 |
| AC060MXADKH | 49 | 49 |

- NR Curve

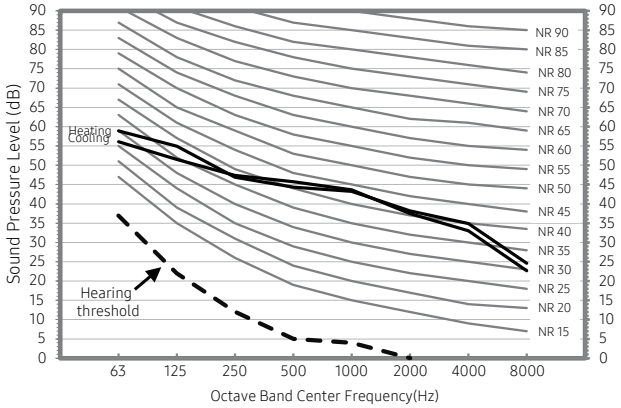
1) AC026MXADKH



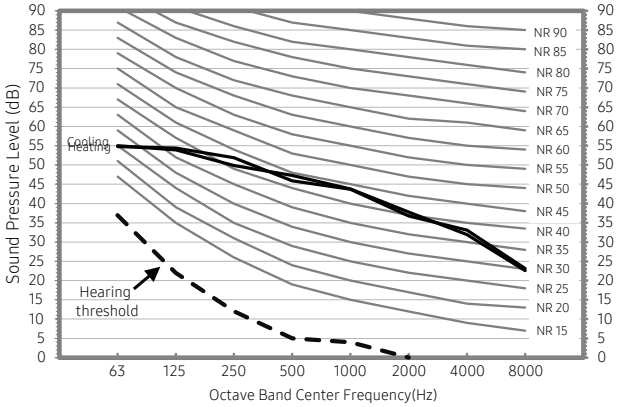

2) AC035MXADKH




3) AC052MXADKH




4) AC060MXADKH




**NOTE**

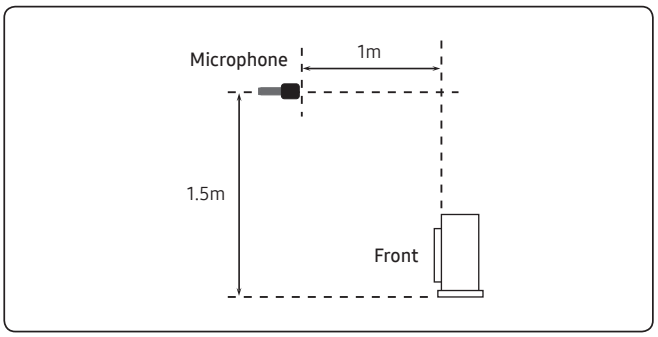
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 5. Sound Data

## Outdoor Units

### Sound Pressure level

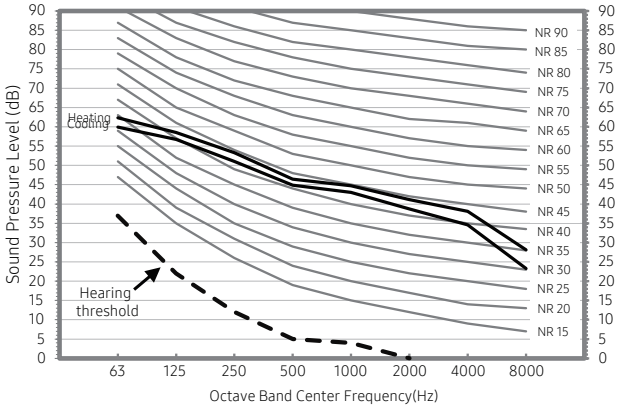
Unit: dB(A)



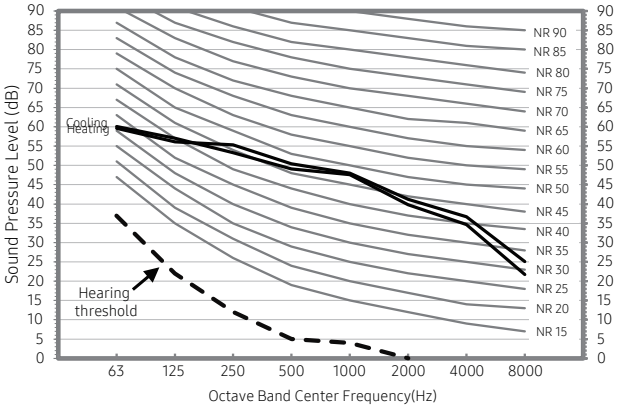

| Model | Cooling | Heating |
|---|---|---|
| AC071MXADKH | 49 | 51 |
| AC090MXADKH | 52 | 53 |
| AC100MXADKH | 52 | 54 |

- NR Curve

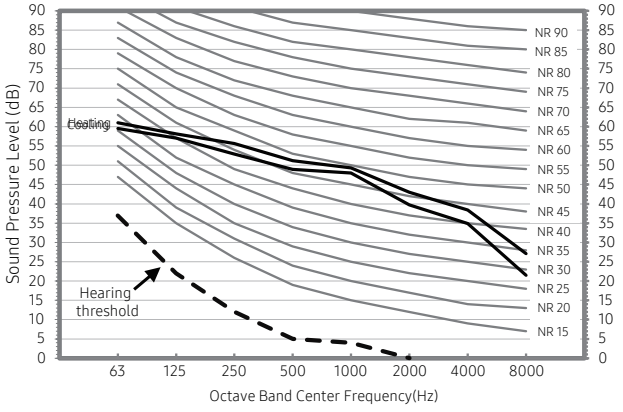
5) AC071MXADKH




6) AC090MXADKH




7) AC100MXADKH




**NOTE**

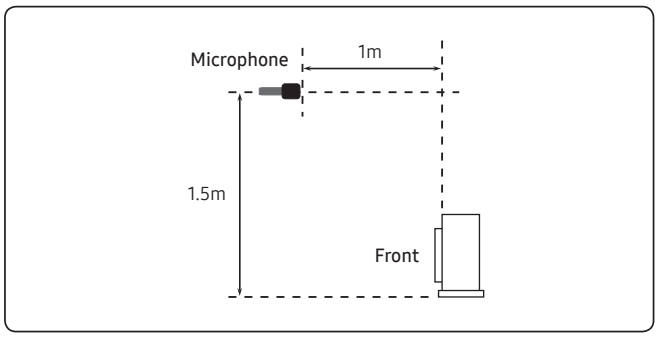
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 5. Sound Data

## Outdoor Units

### Sound Pressure level

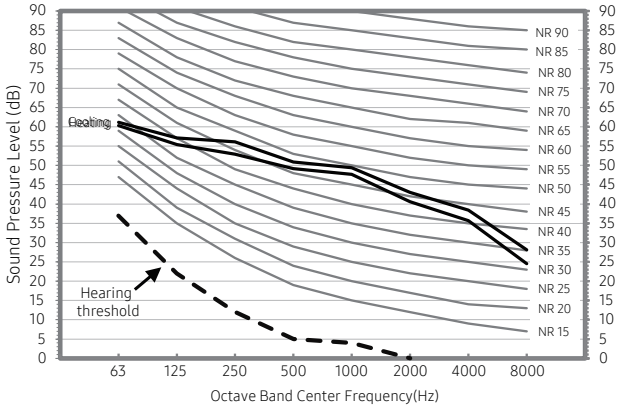
Unit: dB(A)



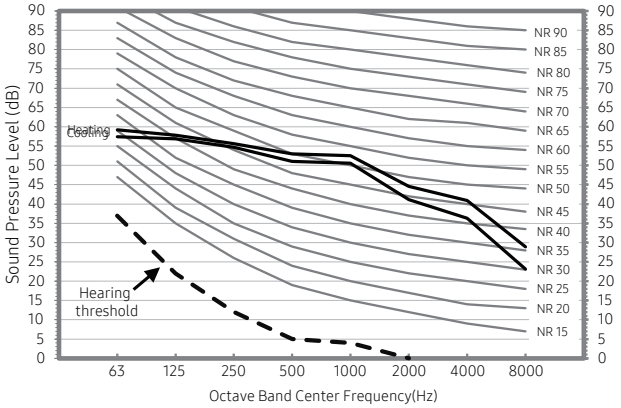

| Model | Cooling | Heating |
|---|---|---|
| AC100MXADNH | 52 | 54 |
| AC120MXADKH | 54 | 56 |
| AC120MXADNH | 54 | 56 |

- NR Curve

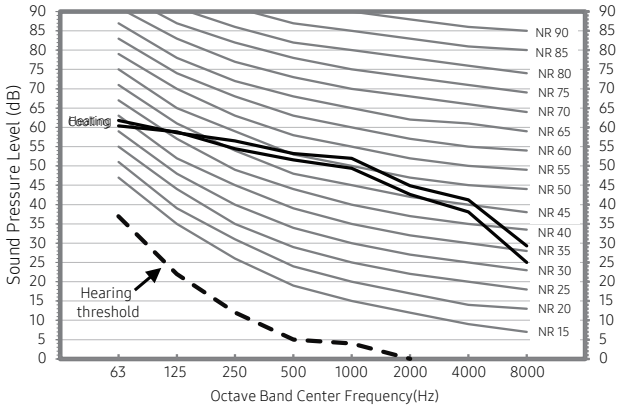
8) AC100MXADNH




9) AC120MXADKH




10) AC120MXADNH




**NOTE**

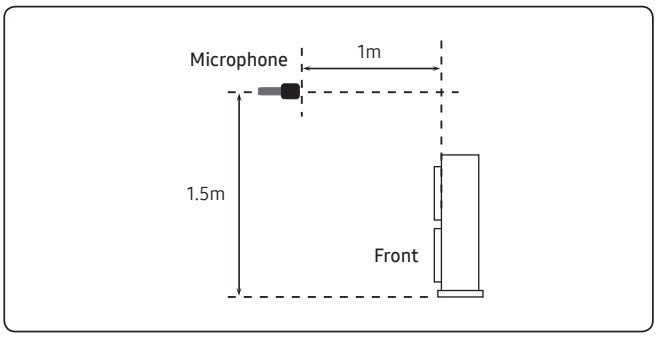
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 5. Sound Data

## Outdoor Units

### Sound Pressure level

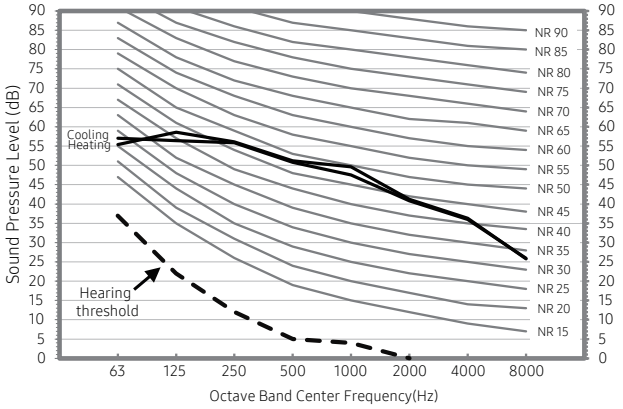
Unit: dB(A)



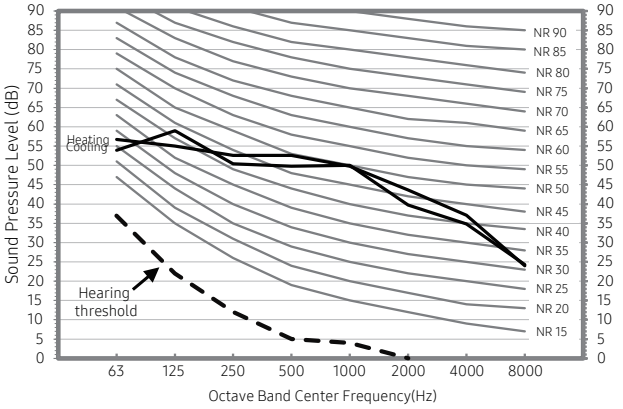

| Model | Cooling | Heating |
|---|---|---|
| AC140MXADKH | 53 | 54 |
| AC140MXADNH | 53 | 54 |

- NR Curve

11) AC140MXADKH




12) AC140MXADNH




**NOTE**

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# 5. Sound Data

## Outdoor Units

### Sound Power level

**NOTE**

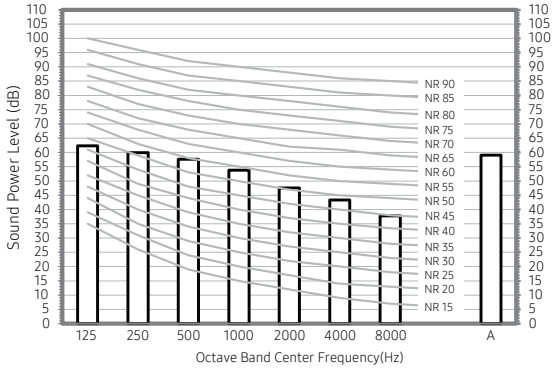
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

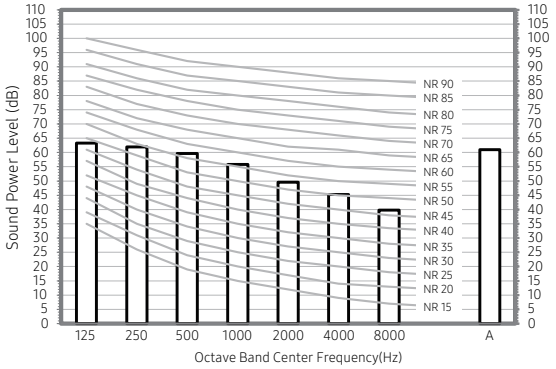
| Model | Power |
|---|---|
| AC026MXADKH | 59 |
| AC035MXADKH | 61 |
| AC052MXADKH | 62 |
| AC060MXADKH | 62 |

- NR Curve

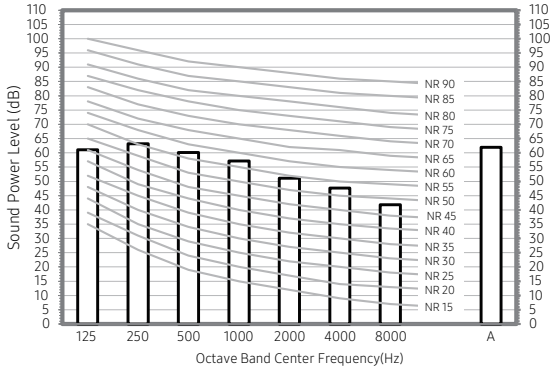
1) AC026MXADKH



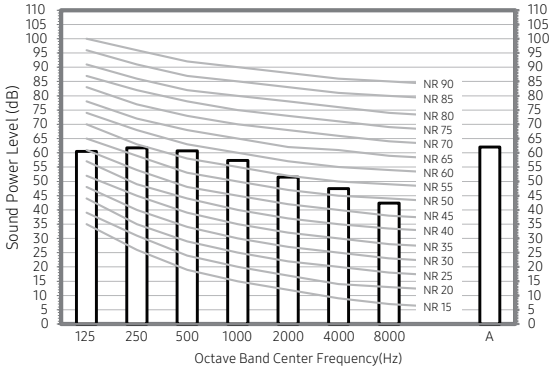

2) AC035MXADKH




3) AC052MXADKH




4) AC060MXADKH



# 5. Sound Data

## Outdoor Units

### Sound Power level

**NOTE**

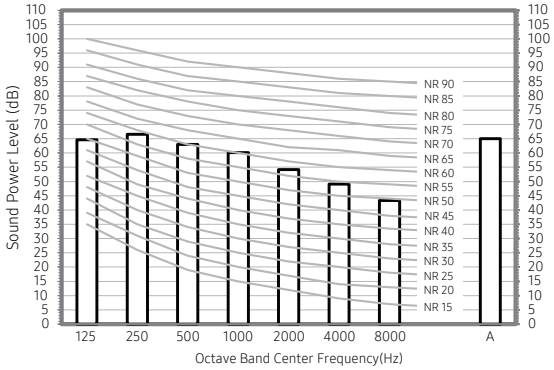
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

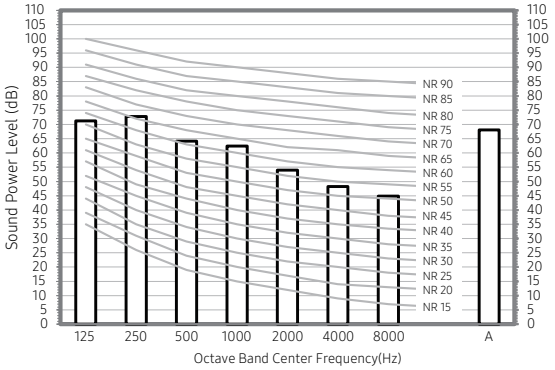
| Model | Power |
|---|---|
| AC071MXADKH | 65 |
| AC090MXADKH | 68 |
| AC100MXADKH | 69 |
| AC100MXADNH | 69 |

- NR Curve

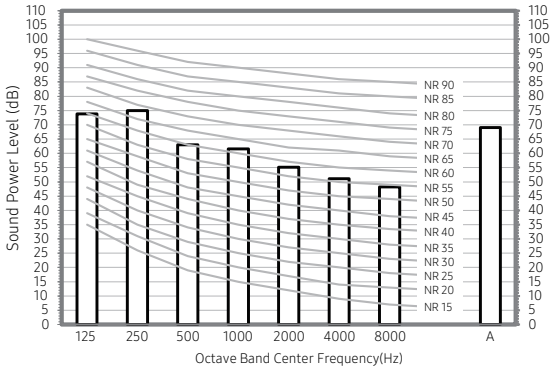
5) AC071MXADKH



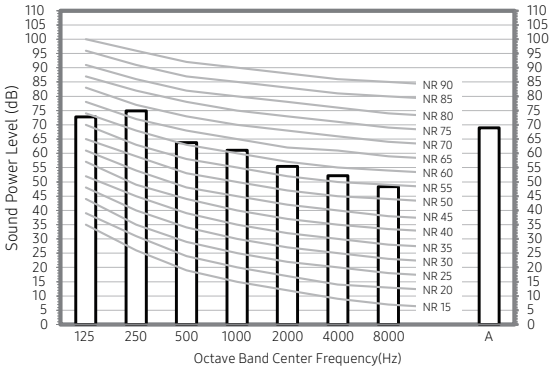

6) AC090MXADKH




7) AC100MXADKH




8) AC100MXADNH



# 5. Sound Data

## Outdoor Units

### Sound Power level

**NOTE**

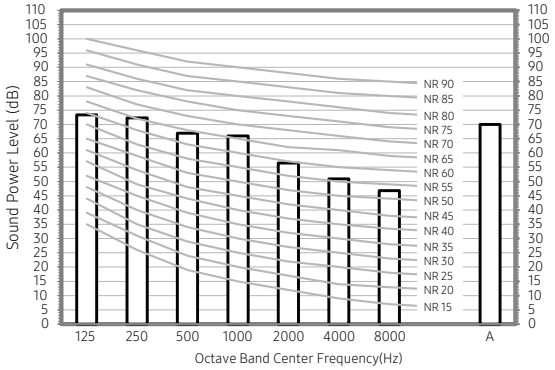
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

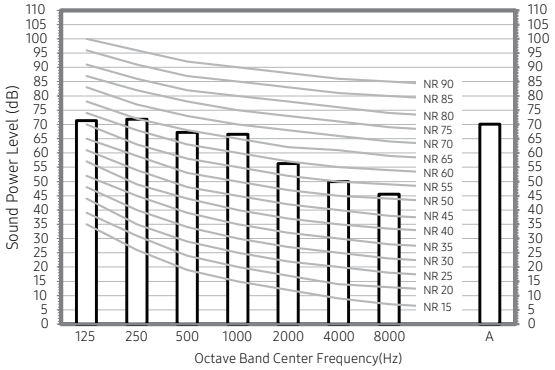
| Model | Power |
|---|---|
| AC120MXADKH | 70 |
| AC120MXADNH | 70 |
| AC140MXADKH | 69 |
| AC140MXADNH | 69 |

- NR Curve

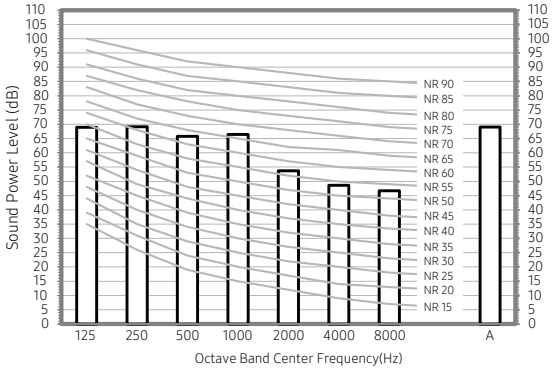
9) AC120MXADKH



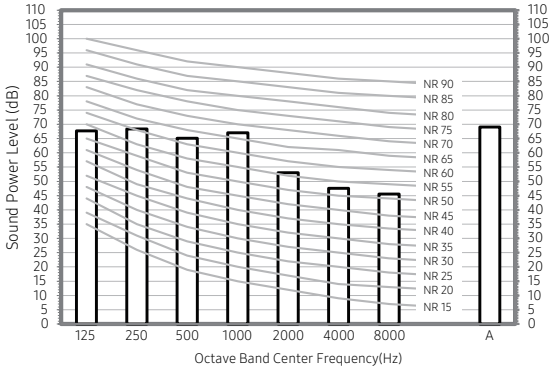

10) AC120MXADNH




11) AC140MXADKH




12) AC140MXADNH

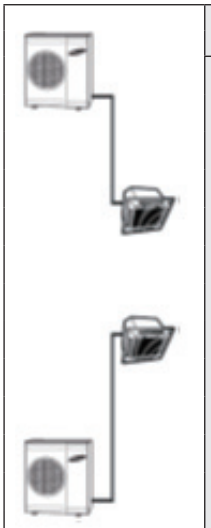


# 6. Capacity Correction

## Outdoor Units

### AC026/035MXADKH/EU

#### Cooling



| | | Pipe Length (m) | | | |
|---|---|---|---|---|---|
| | | 5 | 10 | 15 | 20 |
| Level Difference (m) | 30 | - | - | - | - |
| | 25 | - | - | - | - |
| | 20 | - | - | - | - |
| | 15 | - | - | - | 92 |
| | 10 | - | - | 95 | 92 |
| | 5 | - | 97 | 95 | 92 |
| | 0 | 100 | 97 | 95 | 92 |
| | -5 | - | 96 | 94 | 91 |
| | -10 | - | - | 92 | 90 |
| | -15 | - | - | - | 88 |
| | -20 | - | - | - | - |
| | -25 | - | - | - | - |
| | -30 | - | - | - | - |

#### Heating



| | | Pipe Length (m) | | | |
|---|---|---|---|---|---|
| | | 5 | 10 | 15 | 20 |
| Level Difference (m) | 30 | - | - | - | - |
| | 25 | - | - | - | - |
| | 20 | - | - | - | - |
| | 15 | - | - | - | 92 |
| | 10 | - | - | 95 | 92 |
| | 5 | - | 97 | 95 | 92 |
| | 0 | 100 | 97 | 95 | 92 |
| | -5 | - | 97 | 95 | 92 |
| | -10 | - | - | 95 | 92 |
| | -15 | - | - | - | 92 |
| | -20 | - | - | - | - |
| | -25 | - | - | - | - |
| | -30 | - | - | - | - |

# 6. Capacity Correction

## Outdoor Units

### AC052/060MXADKH/EU

### Cooling



| Level Difference (m) | Pipe Length (m) | | | | | |
|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 |
| 30 | - | - | - | - | - | - |
| 25 | - | - | - | - | - | - |
| 20 | - | - | - | | 92 | 90 |
| 15 | - | - | | 94 | 92 | 90 |
| 10 | - | | 96 | 94 | 92 | 90 |
| 5 | | 98 | 96 | 94 | 92 | 90 |
| 0 | 100 | 98 | 96 | 94 | 92 | 90 |
| -5 | | 97 | 95 | 93 | 91 | 89 |
| -10 | - | | 94 | 93 | 91 | 89 |
| -15 | - | - | | 92 | 90 | 88 |
| -20 | - | - | - | - | 89 | 86 |
| -25 | - | - | - | - | - | - |
| -30 | - | - | - | - | - | |

### Heating



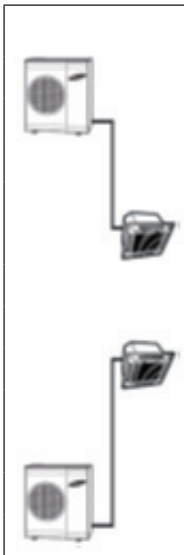
| Level Difference (m) | Pipe Length (m) | | | | | |
|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 |
| 30 | - | - | - | - | - | - |
| 25 | - | - | - | - | - | - |
| 20 | - | - | - | - | 94 | 92 |
| 15 | - | - | - | 95 | 94 | 92 |
| 10 | - | - | 97 | 95 | 94 | 92 |
| 5 | - | 98 | 97 | 95 | 94 | 92 |
| 0 | 100 | 98 | 97 | 95 | 94 | 92 |
| -5 | - | 98 | 97 | 95 | 94 | 92 |
| -10 | - | - | 97 | 95 | 94 | 92 |
| -15 | - | - | - | 95 | 94 | 92 |
| -20 | - | - | - | - | 94 | 92 |
| -25 | - | - | - | - | - | - |
| -30 | - | - | - | - | - | - |

# 6. Capacity Correction

## Outdoor Units

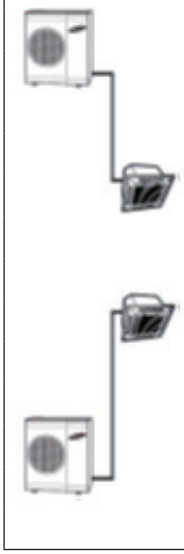
### AC071/090/100/120MXAD*H/EU

### Cooling



| Level Difference (m) | Pipe Length (m) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 30 | - | - | - | - | - | - | 93 | 92 | 91 | 90 |
| 25 | - | - | - | - | - | 94 | 93 | 92 | 91 | 90 |
| 20 | - | - | - | - | 96 | 94 | 93 | 92 | 91 | 90 |
| 15 | - | - | - | 97 | 96 | 94 | 93 | 92 | 91 | 90 |
| 10 | - | - | 98 | 97 | 96 | 94 | 93 | 92 | 91 | 90 |
| 5 | - | 99 | 98 | 97 | 96 | 94 | 93 | 92 | 91 | 90 |
| 0 | 100 | 99 | 98 | 97 | 96 | 94 | 93 | 92 | 91 | 90 |
| -5 | - | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 89 |
| -10 | - | - | 97 | 96 | 95 | 94 | 92 | 91 | 90 | 88 |
| -15 | - | - | - | 95 | 95 | 93 | 92 | 91 | 89 | 88 |
| -20 | - | - | - | - | 94 | 93 | 92 | 90 | 89 | 87 |
| -25 | - | - | - | - | - | 92 | 91 | 90 | 88 | 86 |
| -30 | - | - | - | - | - | - | 91 | 89 | 88 | 85 |

### Heating



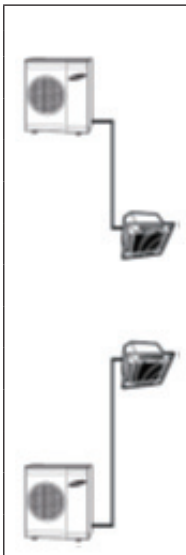
| Level Difference (m) | Pipe Length (m) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 30 | - | - | - | - | - | - | 95 | 94 | 93 | 92 |
| 25 | - | - | - | - | - | 96 | 95 | 94 | 93 | 92 |
| 20 | - | - | - | - | 96 | 96 | 95 | 94 | 93 | 92 |
| 15 | - | - | - | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| 10 | - | - | 98 | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| 5 | - | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| 0 | 100 | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| -5 | - | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| -10 | - | - | 98 | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| -15 | - | - | - | 97 | 96 | 96 | 95 | 94 | 93 | 92 |
| -20 | - | - | - | - | 96 | 96 | 95 | 94 | 93 | 92 |
| -25 | - | - | - | - | - | 96 | 95 | 94 | 93 | 92 |
| -30 | - | - | - | - | - | - | 95 | 94 | 93 | 92 |

# 6. Capacity Correction

## Outdoor Units

### AC140MXAD*H/EU

### Cooling



| Level Difference (m) | Pipe Length (m) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| 30 | - | - | - | - | - | - | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| 25 | - | - | - | - | - | 96 | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| 20 | - | - | - | - | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| 15 | - | - | - | 97 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| 10 | - | - | 98 | 97 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| 5 | - | 99 | 98 | 97 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| 0 | 100 | 99 | 98 | 97 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 91 | 90 | 89 | 88 |
| -5 | - | 99 | 98 | 97 | 96 | 95 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 87 |
| -10 | - | - | 98 | 97 | 96 | 95 | 94 | 93 | 93 | 92 | 91 | 90 | 89 | 88 | 86 |
| -15 | - | - | - | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 87 | 85 |
| -20 | - | - | - | - | 95 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 86 | 84 |
| -25 | - | - | - | - | - | 94 | 93 | 93 | 92 | 91 | 90 | 89 | 87 | 86 | 83 |
| -30 | - | - | - | - | - | - | 93 | 92 | 91 | 90 | 89 | 88 | 87 | 85 | 82 |

### Heating



| Level Difference (m) | Pipe Length (m) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| 30 | - | - | - | - | - | - | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| 25 | - | - | - | - | - | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| 20 | - | - | - | - | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| 15 | - | - | - | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| 10 | - | - | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| 5 | - | 99 | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| 0 | 100 | 99 | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| -5 | - | 99 | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| -10 | - | - | 99 | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| -15 | - | - | - | 98 | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| -20 | - | - | - | - | 97 | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| -25 | - | - | - | - | - | 96 | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |
| -30 | - | - | - | - | - | - | 96 | 95 | 94 | 94 | 93 | 92 | 91 | 91 | 90 |

# 7. Operation Range

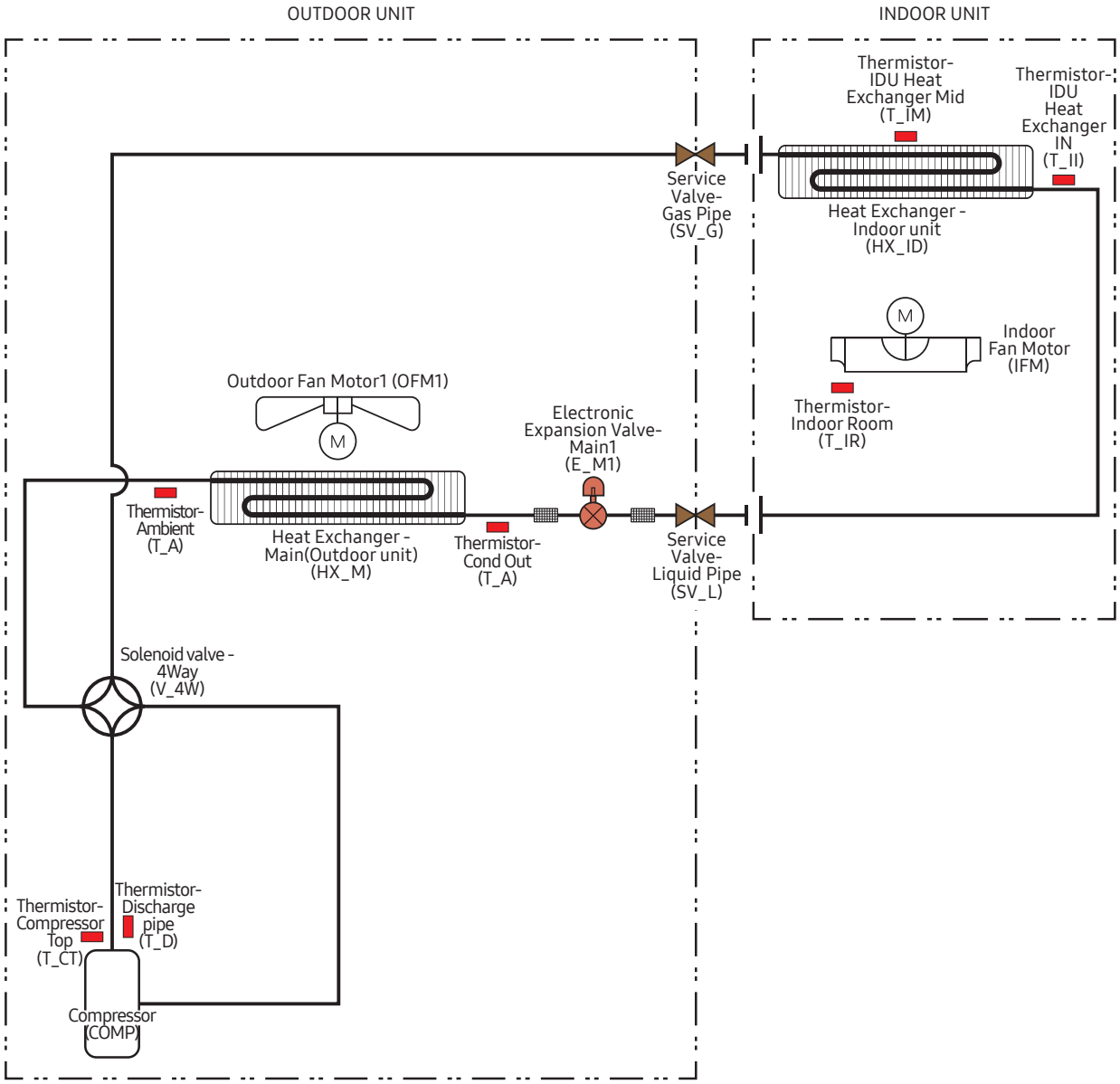
| Mode | Outdoor Unit | Indoor Unit | Indoor Unit |
|---|---|---|---|
| | Temperature(DB) | Temperature(DB) | Humidity(RH) |
| Cooling | -15°C ~ 50°C | 18°C ~ 32°C | 80% or less |
| Heating | -20°C ~ 24°C | 30°C or less | - |
| Drying | -15°C ~ 50°C | 18°C ~ 32°C | 80% or less |

**NOTE**

- The assumed installation conditions are follows
  - The pipe length(including elbow) is 5 m.
  - The level difference is 0 m.

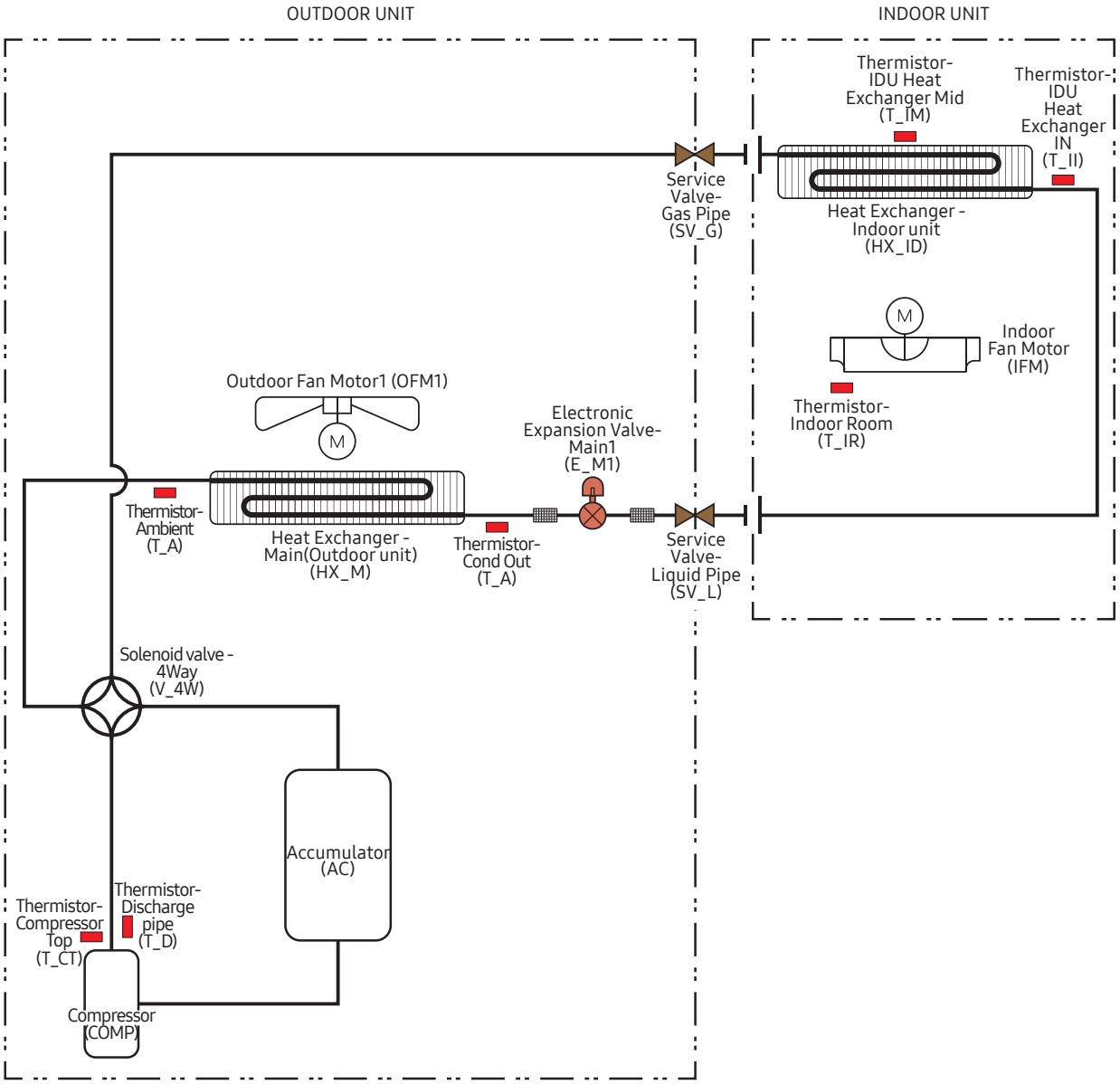
# 8. Piping Diagram

## AC026NNNDKH/EU+AC026MXADKH/EU
## AC035NNNDKH/EU+AC035MXADKH/EU



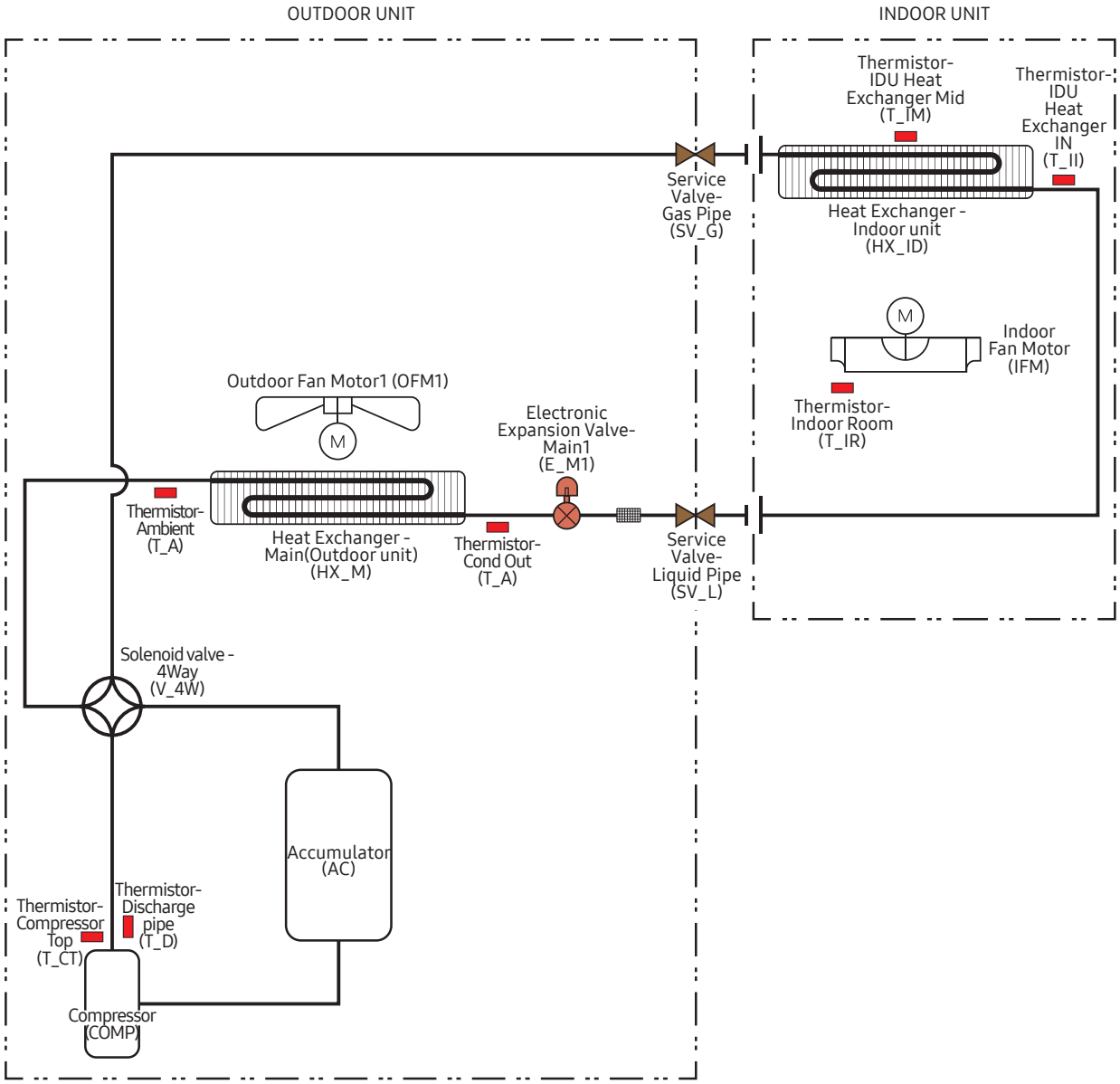
# 8. Piping Diagram

**AC052NNNDKH/EU+AC052MXADKH/EU**
**AC052NN4DKH/EU+AC052MXADKH/EU**
**AC060NNNDKH/EU+AC060MXADKH/EU**
**AC071NNNDKH/EU+AC071MXADKH/EU**
**AC071NN4DKH/EU+AC071MXADKH/EU**



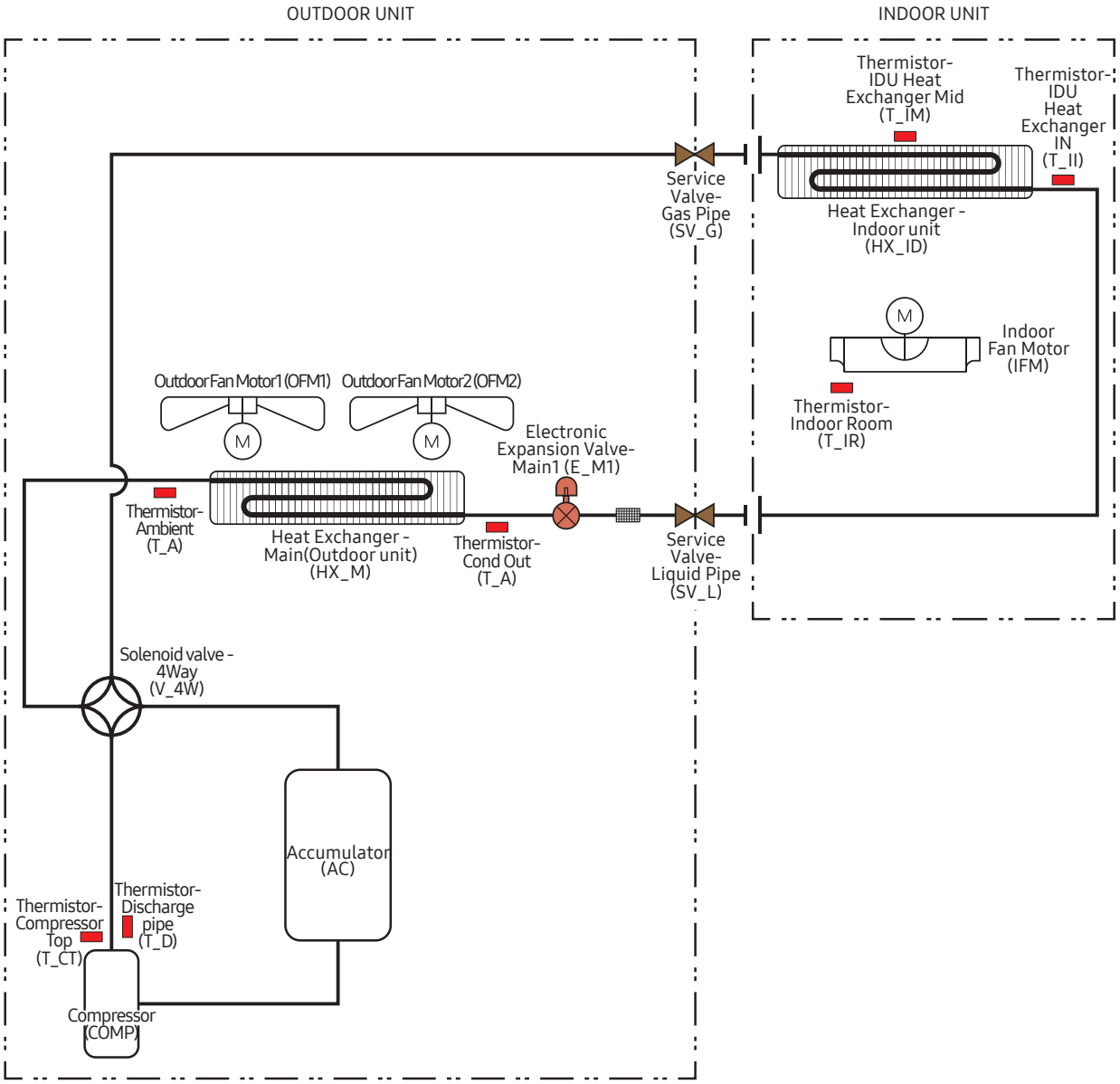
# 8. Piping Diagram

**AC090NN4DKH/EU+AC090MXADKH/EU**
**AC100NN4DKH/EU+AC100MXADKH/EU**
**AC100NN4DKH/EU+AC100MXADNH/EU**
**AC120NN4DKH/EU+AC120MXADKH/EU**
**AC120NN4DKH/EU+AC120MXADNH/EU**



# 8. Piping Diagram

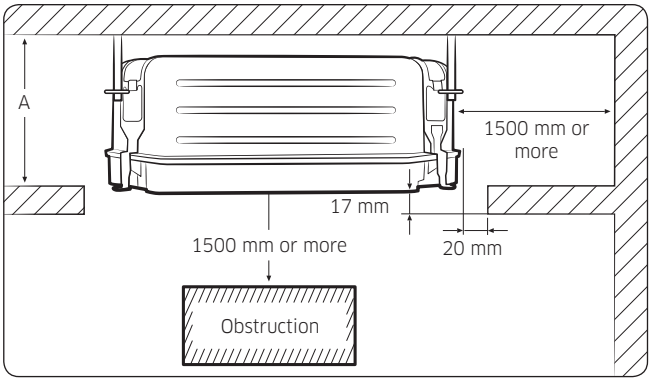
## AC140NN4DKH/EU+AC140MXADKH/EU
## AC140NN4DKH/EU+AC140MXADNH/EU



# Installation

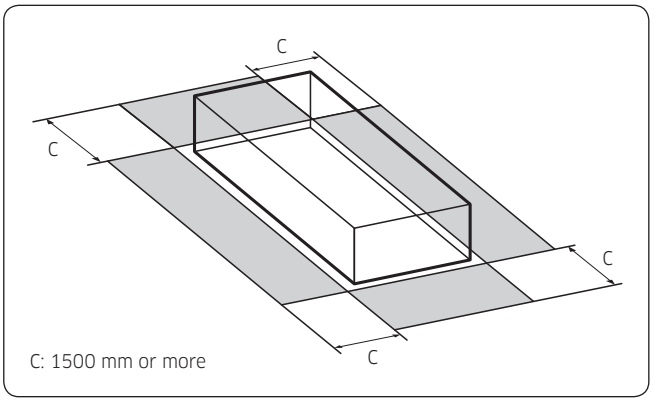
## 1. Wind-Free 4Way Cassette (600x600)

### Spacing requirements



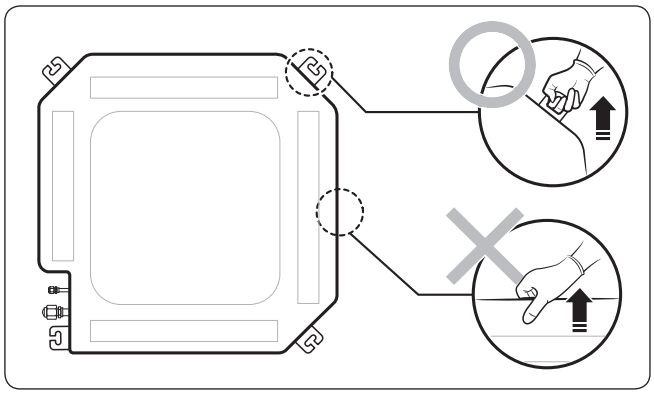

| Model | AC026NNNDKH<br>AC035NNNDKH<br>AC052NNNDKH<br>AC060NNNDKH<br>AC071NNNDKH |
|---|---|
| A | 297 |

(Unit: mm)




### ⚠ CAUTION

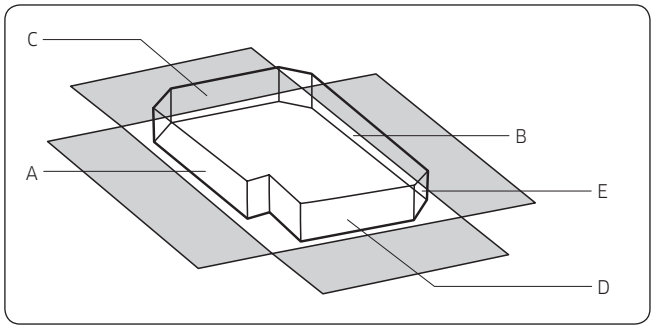
- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage.
- You must hold the hanger plate on the corner and carry the indoor unit.



### Step 3 Optional: Insulating the body of the indoor unit

If you install a cassette type indoor unit on the ceiling when temperature is over 27°C and humidity is over 80%, you must apply an extra 10 mm thick polyethylene insulation or a similar type of insulation to the body of the indoor unit.

Cut away the part where pipes are pulled out for the insulating work.




Insulate the end of the pipe and some curved area by using separate insulator.

### NOTE

- A: Reference for the outer circumference of the unit
  (When insulating the body of the indoor unit, use A as the reference for its outer circumference.)

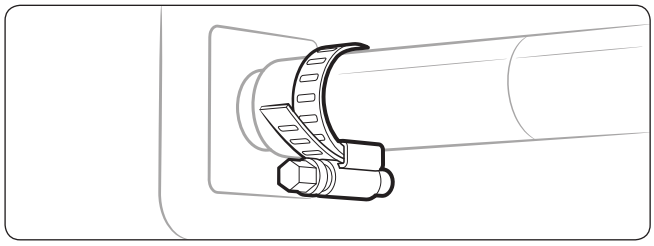
| A | B | C | D | E |
|---|---|---|---|---|
| 400X190 | 400X190 | 400X190 | 400X190 | 550X550 |

# Installation

## Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.

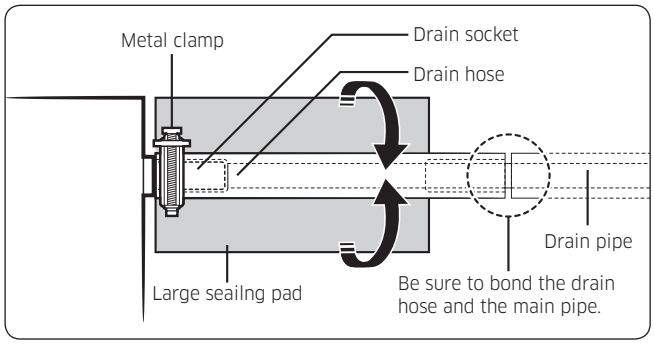
2 Tighten the metal clamp as shown in the picture.

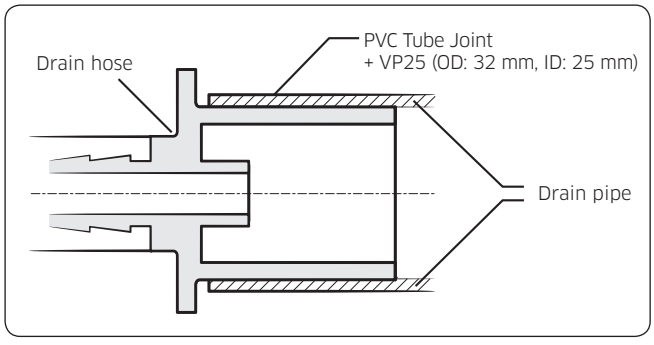


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

4 Insulate the complete drain piping inside the building (field supply). If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

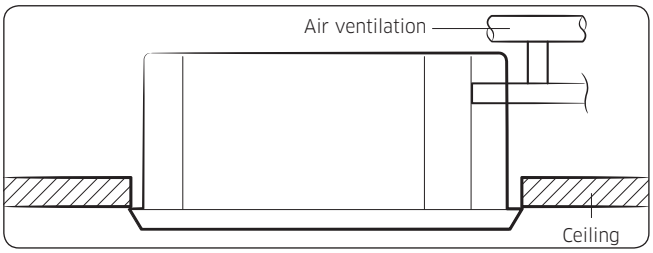


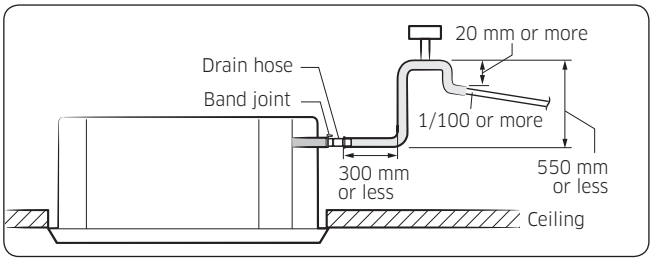

## ⚠ CAUTION

Check that the indoor unit is level with the ceiling by using the leveller.

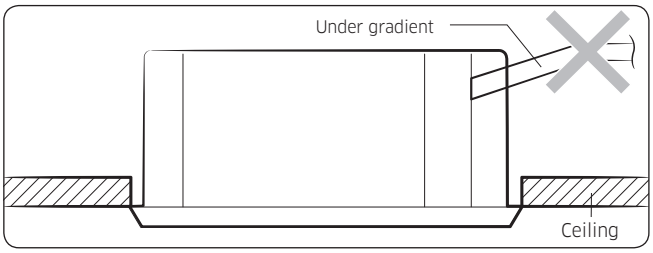
- Install air ventilation to drain condensation smoothly.



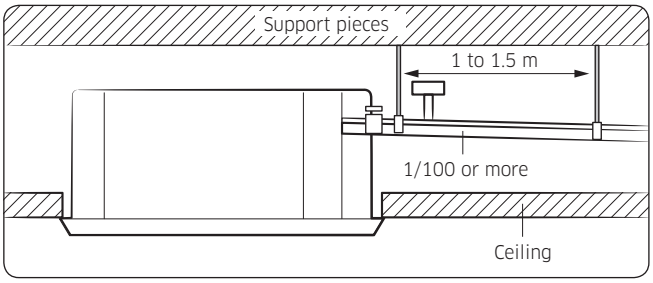

- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.




- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.

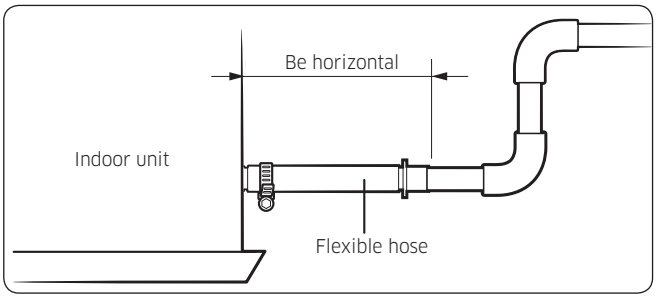



- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.

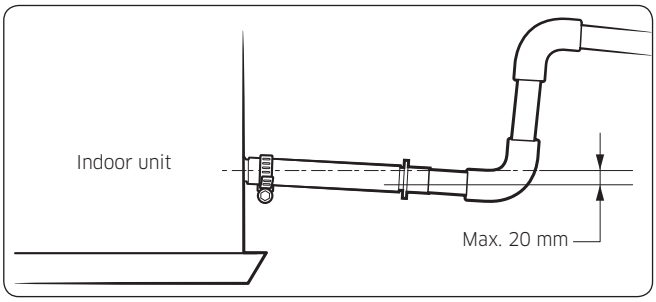


# Installation

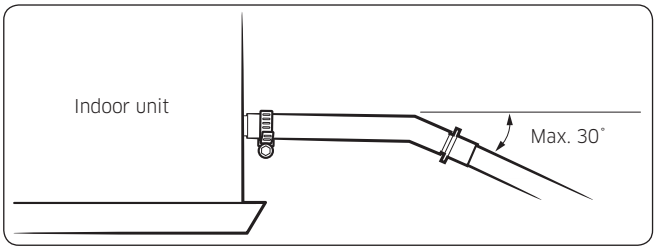
- Install horizontally.




- Max. allowable axis gap.

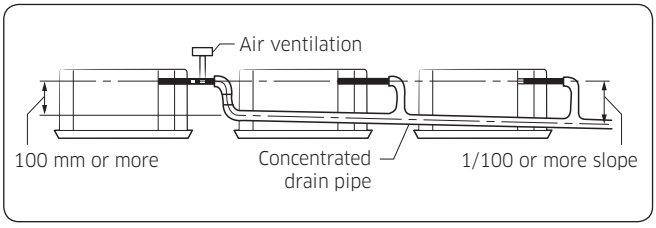



- Max. allowable bending angle.




## NOTE

- If a concentrated drain pipe is installed, refer to the figure below.




## Connecting the power and communication cables

## ⚠ CAUTION

- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

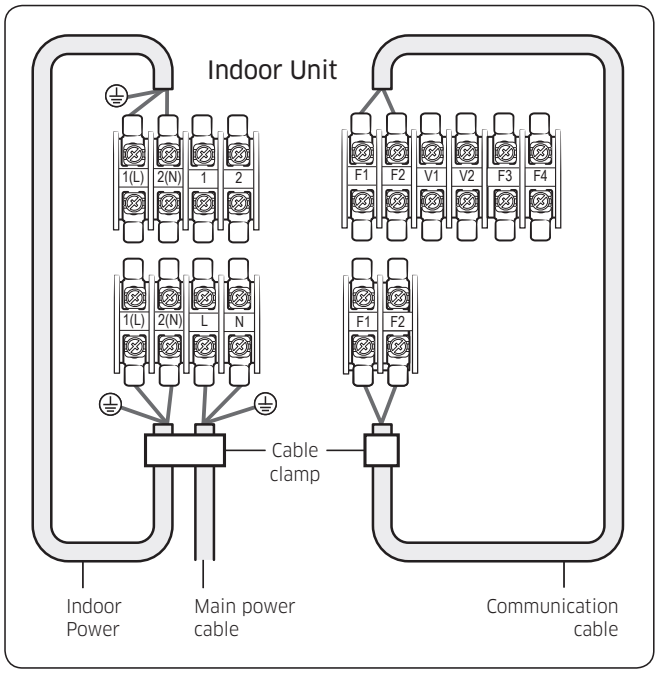
The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

1 Remove the screw on the electrical component box and remove the cover plate.

2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.

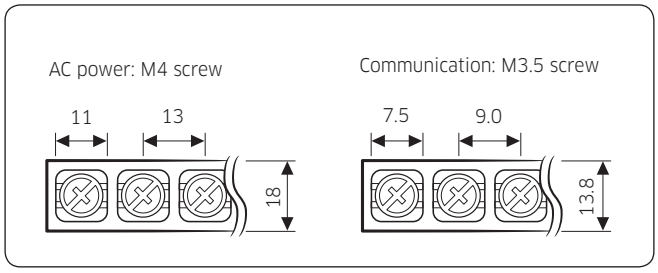
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.

4 Reassemble the electrical component box cover, carefully tightening the screw.




| Indoor power supply | | |
|---|---|---|
| Power supply | Max/Min(V) | Indoor power cable |
| 220 to 240V, 50 Hz | ±10% | 1.5 mm² ↑, 3 wires |
| Communication cable | | |
| 0.75 to 1.5 mm², 2 wires | | |

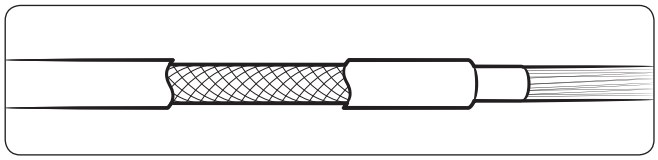
# Installation




| Tightening torque (kgf • cm) | |
|---|---|
| M3.5 | 8.0 to 12.0 |
| M4 | 12.0 to 18.0 |

- 1 N·m = 10 kgf·cm

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.

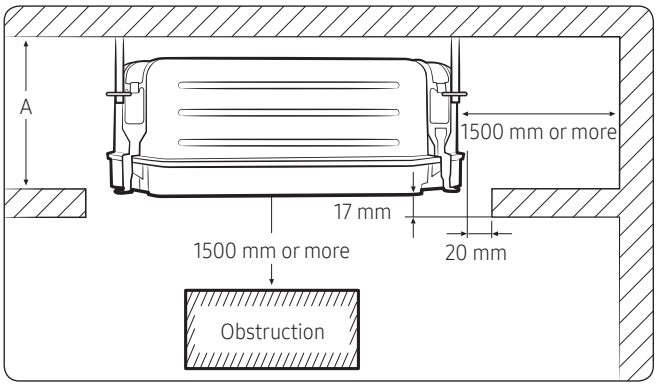


## ⚠ CAUTION

- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

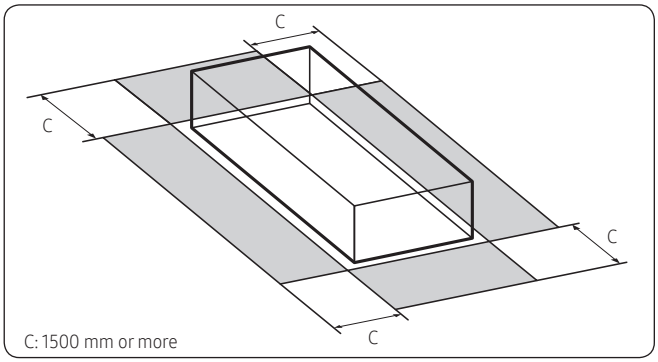
## 2. Wind-Free 4Way Cassette

### Spacing requirements




(Unit: mm)

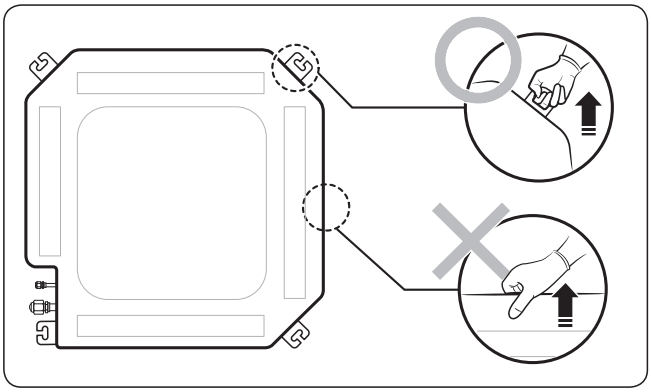
| Model | AC052NN4DKH<br>AC071NN4DKH | AC090NN4DKH<br>AC100NN4DKH<br>AC120NN4DKH<br>AC140NN4DKH |
|---|---|---|
| A | 251 | 335 |




## ⚠ CAUTION

- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage.
- You must hold the hanger plate on the corner and carry the indoor unit.

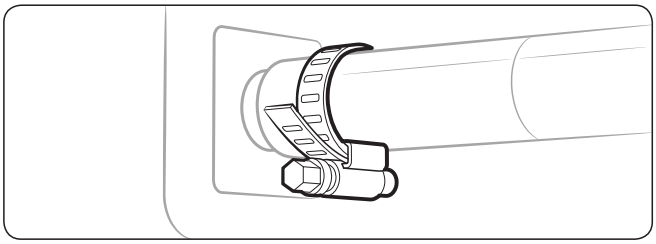
# Installation



## Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.

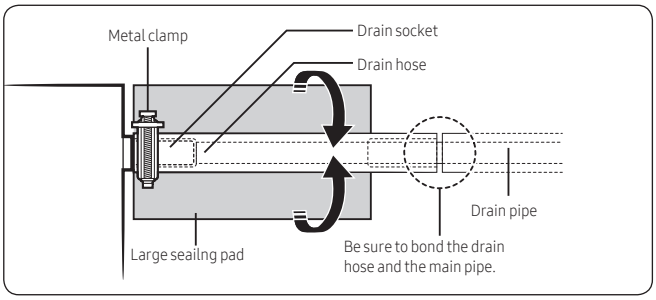
2 Tighten the metal clamp as shown in the picture.

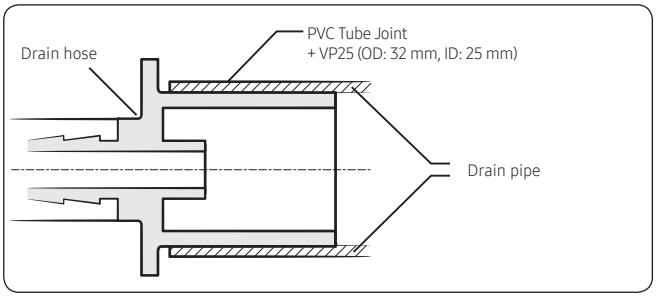


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

4 Insulate the complete drain piping inside the building (field supply). If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

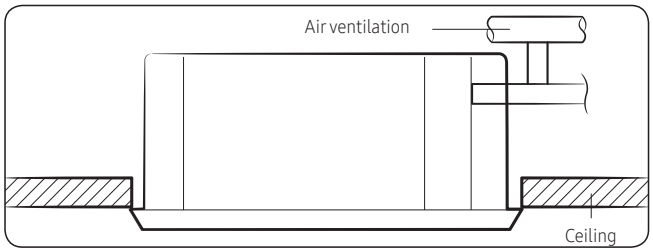


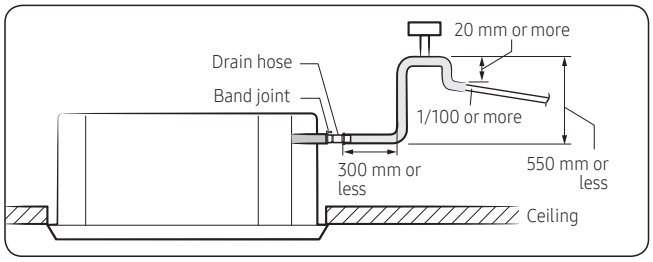

## ⚠ CAUTION

Check that the indoor unit is level with the ceiling by using the leveller.

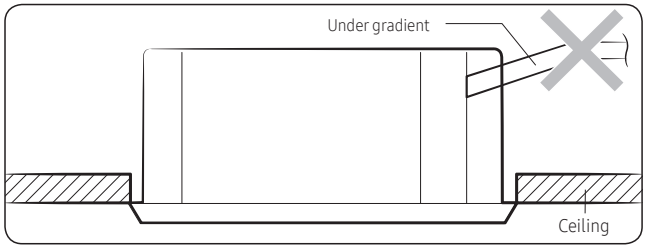
- Install air ventilation to drain condensation smoothly.



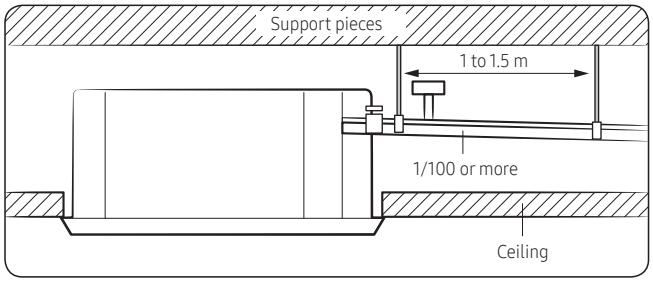

- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.




- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.

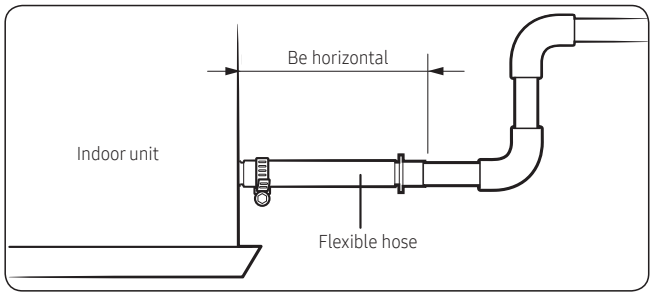



- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.

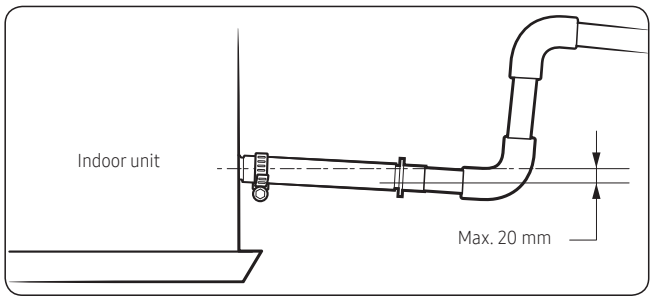


# Installation

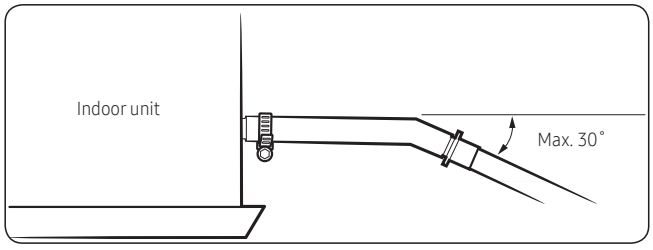
- Install horizontally.




- Max. allowable axis gap.




- Max. allowable bending angle.




## Connecting the power and communication cables

### ⚠ CAUTION

- Always remember to connect the refrigerant pipes before performing the electric connections.
  When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

### ⚠ CAUTION

- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

1 Remove the screw on the electrical component box and remove the cover plate.

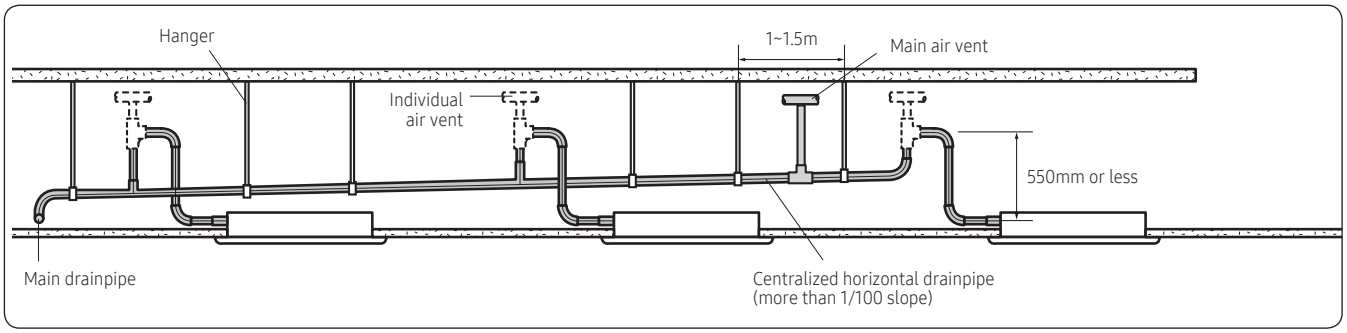
2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.

3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.

4 Reassemble the electrical component box cover, carefully tightening the screw.

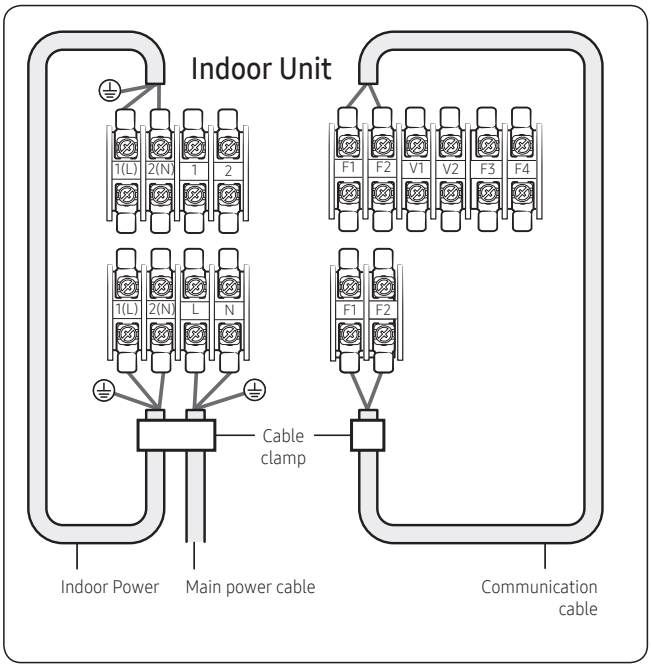
### NOTE

- If a concentrated drain pipe is installed, refer to the figure below.

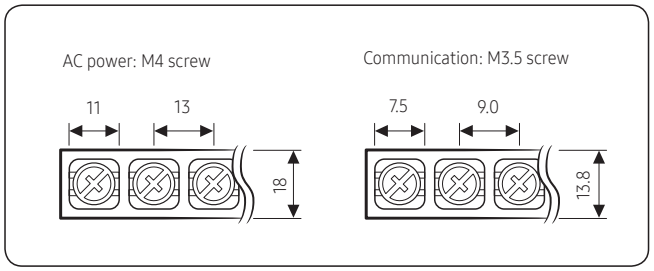


# Installation

1 phase



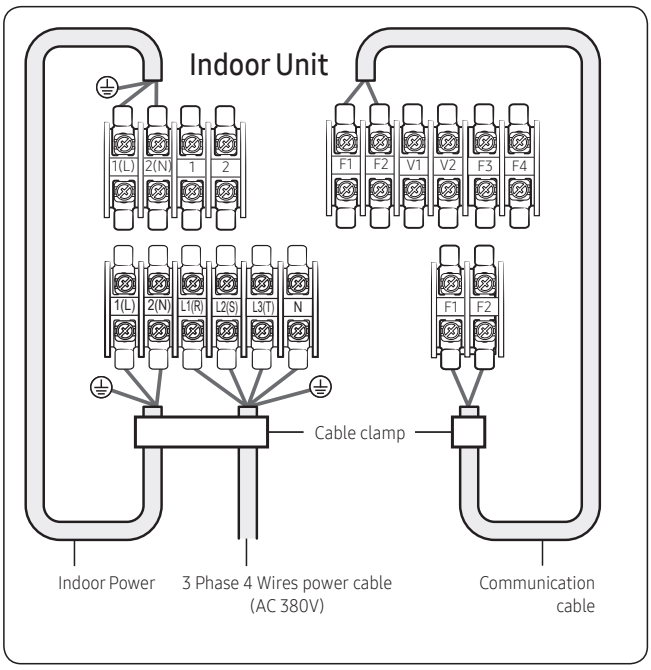

| Indoor power supply | | |
|---|---|---|
| Power supply | Max/Min(V) | Indoor power cable |
| 220 to 240V, 50 Hz | ±10% | 1.5 mm² ↑, 3 wires |
| Communication cable | | |
| 0.75 to 1.5 mm², 2 wires | | |



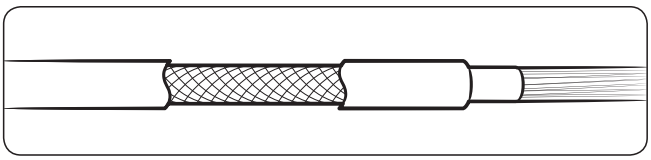

| Tightening torque (kgf • cm) | |
|---|---|
| M3.5 | 8.0 to 12.0 |
| M4 | 12.0 to 18.0 |

- 1 N·m = 10 kgf·cm

3 phase




- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



## ⚠ CAUTION

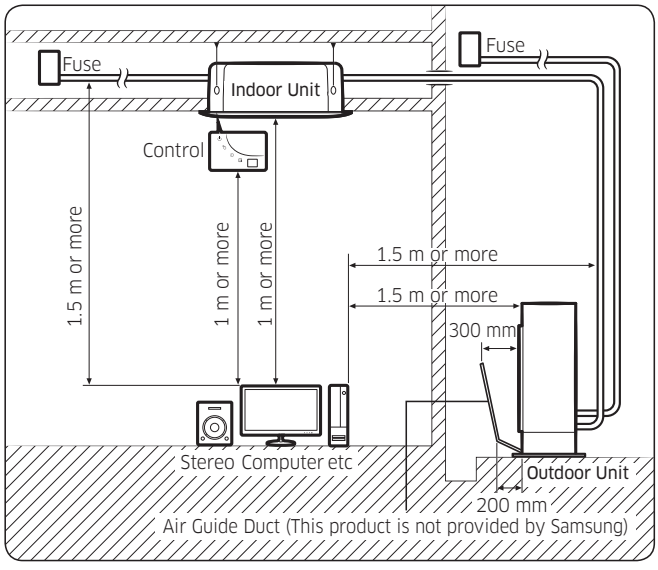
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

## 3. Outdoor Unit

### Choosing the installation location

#### Installation location requirements

- Do not place the outdoor unit on its side or upside down. Failing to do so may cause the compressor lubrication oil to run into the cooling circuit and lead to a serious damage to the unit.
- Install the unit in a well-ventilated location away from direct sunlight or strong winds.
- Install the unit in a location that would not obstruct any passageways or thoroughfares.
- Install the unit in a location that would not inconvenience or disturb your neighbors, as they could be affected by the noise or the airflow coming from the unit.
- Install the unit in a location where the pipes and the cables can be easily connected to the indoor unit.
- Install the unit on a flat, stable surface that can withstand the weight of the unit. Otherwise, the unit can generate noise and vibration during operation.
- Install the unit so that the air flow is directed towards the open area.
- Maintain sufficient clearance around the outdoor unit, especially from a radio, computer, stereo system, etc.

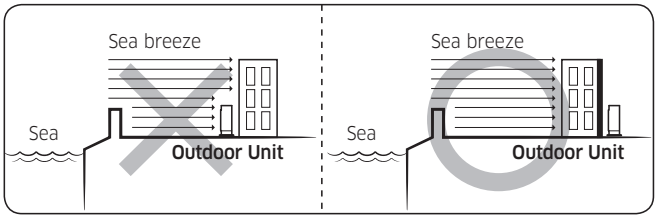



- Install the unit at a height where its base can be firmly fixed in place.
- Make sure that the water dripping from the drain hose runs away correctly and safely.

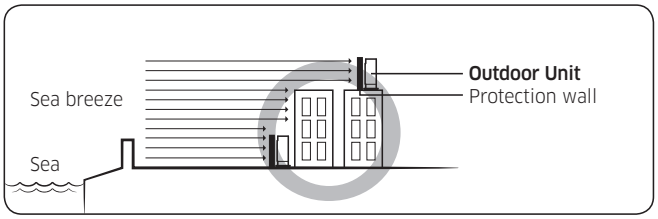
### ⚠ CAUTION

- You have just purchased a system air conditioner and it has been installed by your installation specialist.
- This device must be installed according to the national electrical rules.
- If your outdoor unit exceeds a net weight of 60 kg, do not install it on a suspended wall, but stand it on a floor.

- When installing the outdoor unit at the seaside, make sure that it is not directly exposed to sea breeze. If you cannot find an adequate place free from direct sea breeze, construct a protection wall or a protective fence.
  - Install the outdoor unit in a place (such as near buildings etc.) where it can be prevented from sea breeze. Failure to do so may cause a damage to the outdoor unit.




- If you cannot avoid installing the outdoor unit at the seaside, construct a protection wall around to block the sea breeze.
- Construct a protection wall with a solid material such as concrete to block the sea breeze. Make sure that the height and the width of the wall are 1.5 times larger than the size of the outdoor unit. Also, secure a space larger than 700 mm between the protection wall and the outdoor unit for exhausted air to ventilate.




### ⚠ CAUTION

- Depending on the condition of power supply, unstable power or voltage may cause malfunction of the parts or control system. (At the ship or places using power supply from electric generator...etc)

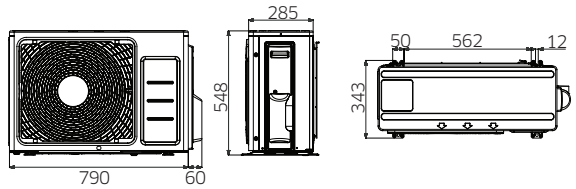
# Installation

- Install the unit in a place where water can drain smoothly.
- If you have any difficulty finding installation location as prescribed above, contact your manufacturer for details.
- Be sure to clean the sea water and the dust on the heat exchanger of the outdoor unit and apply a corrosion inhibitor on it. (At least once in a year.)

## Outdoor unit dimensions

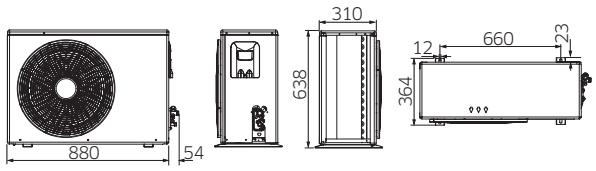
**A Type**

AC026MXADKH/AC035MXADKH



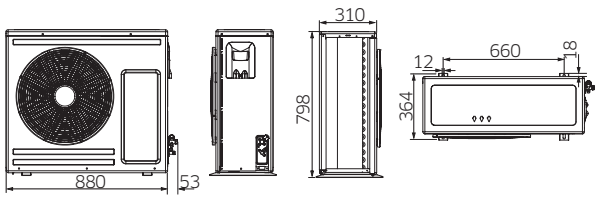

**B Type**

AC052MXADKH/AC060MXADKH



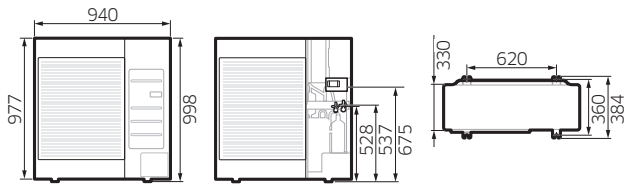

**C Type**

AC071MXADKH



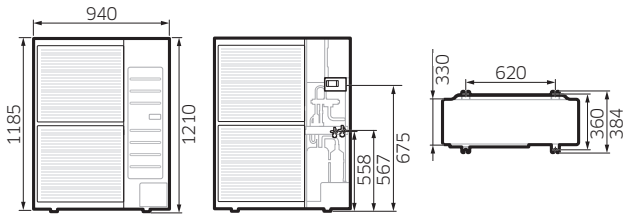

**D Type**

AC090MXADKH/AC100MXADKH/AC100MXADNH/AC120MXADKH/AC120MXADNH




**E Type**

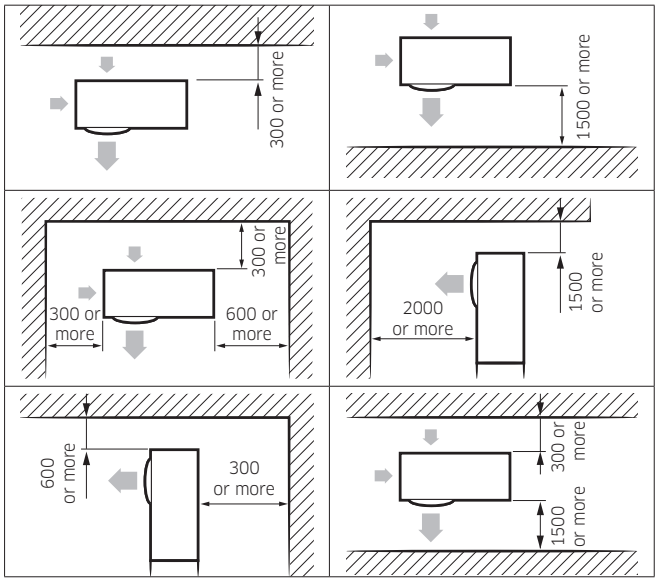
AC140MXADKH/AC140MXADNH




## Minimum clearances for the outdoor unit

When installing 1 outdoor unit

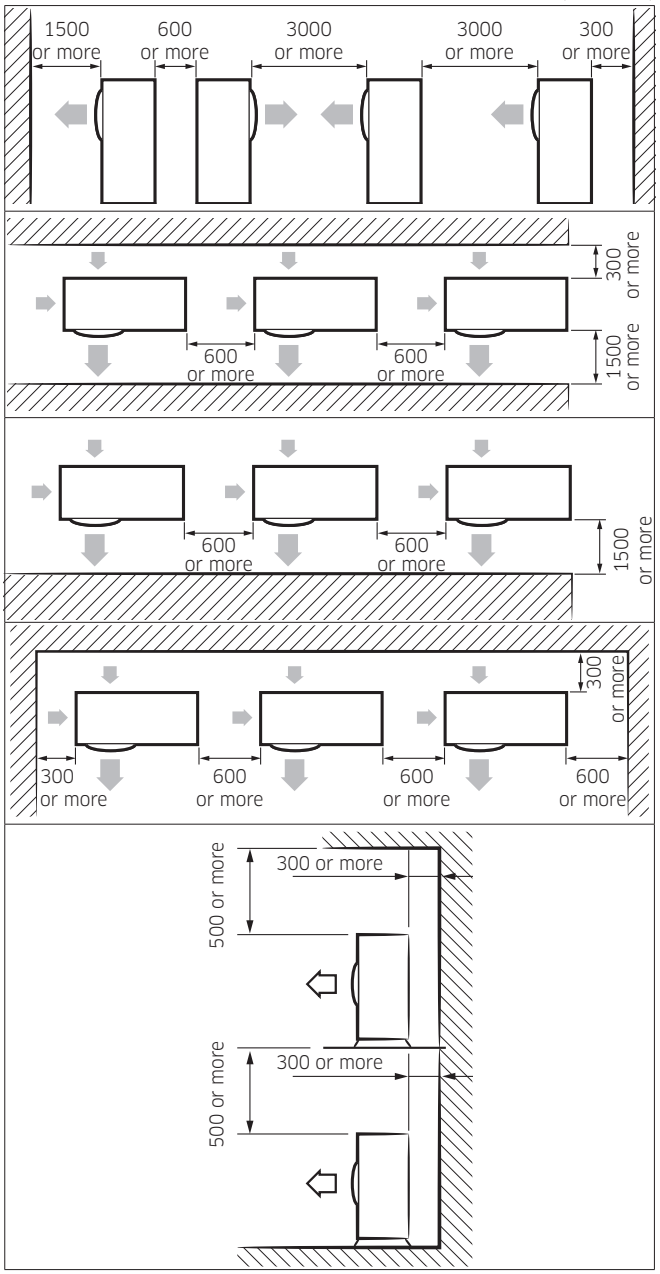
(Unit: mm)



# Installation

When installing more than 1 outdoor unit

(Unit: mm)




## ⚠ CAUTION

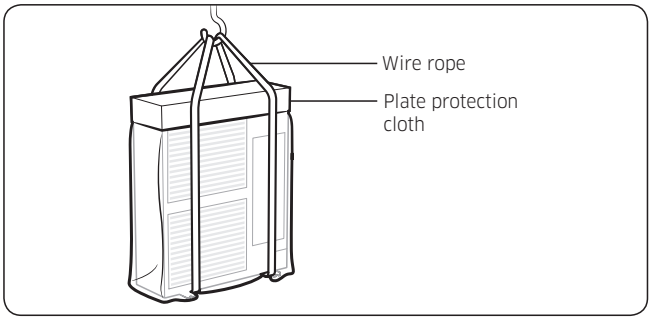
- The outdoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit.
  The components of the outdoor unit must be reachable and removable under safe conditions for people and the unit.

### Moving the outdoor unit with wire rope

1 Before carrying the outdoor unit, fasten two wire ropes of 8 m or longer, as shown in the figure.

2 To prevent damages or scratches effectively, insert a piece of cloth between the outdoor unit and the ropes.

3 Move the outdoor unit.

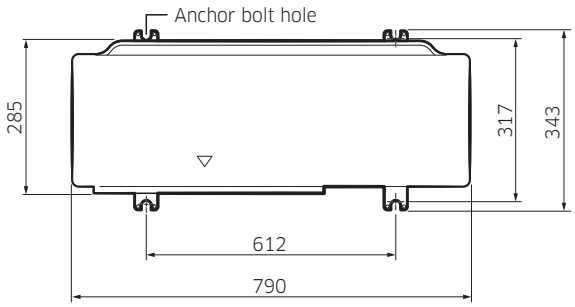



## Fixing the outdoor unit in place

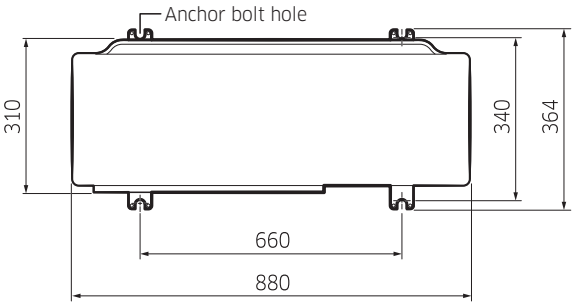
Install the outdoor unit on a rigid and stable base to prevent disturbance from any noise caused by vibration. When installing the unit at a height or in a location exposed to strong winds, fix the unit securely to a support (i.e., a wall or a ground).

Fix the outdoor unit with anchor bolts. Make sure that the anchor bolts are 20 mm or higher from the base surface.

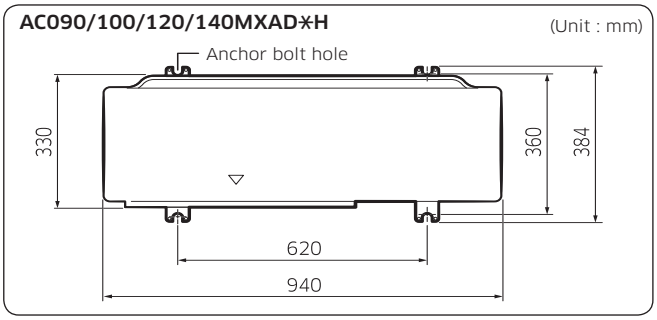
**AC026/035MXADKH** (Unit : mm)




**AC052/060/071MXADKH** (Unit : mm)

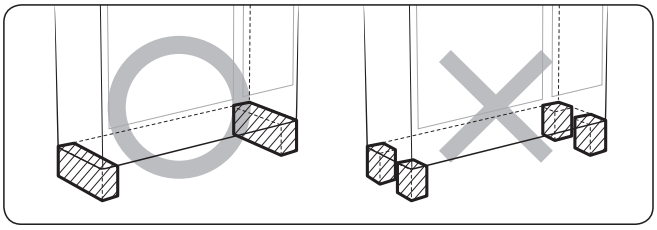


# Installation



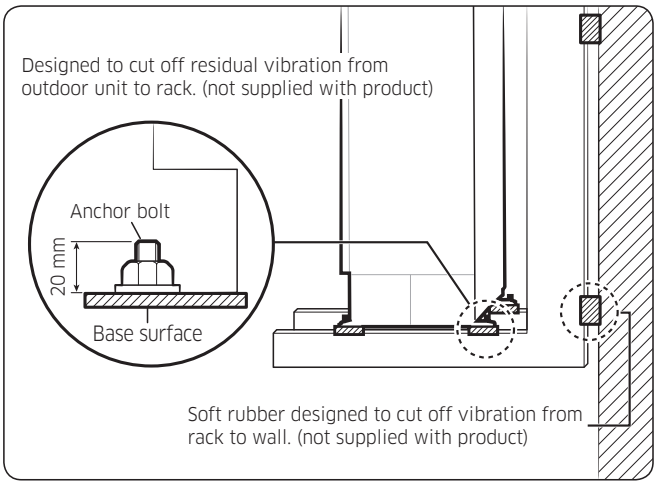

## ⚠ CAUTION

- Install a drain outlet at the lowest end around the base for outdoor unit drainage
- When installing the outdoor unit on the roof, waterproof the unit and check the ceiling strength.



- Make sure that the wall can support the weights of the rack and the outdoor unit.
- Install the rack close to the column as much as possible.

### Optional: Fixing the outdoor unit to a wall with a rack




- Install a proper grommet in order to reduce noise and residual vibration transferred by the outdoor unit towards the wall.

## ⚠ CAUTION

- When installing an air guide duct, be sure to check the following:
  - The screws do not damage the copper pipe.
  - The air guide duct is fixed firmly on the guard fan.

## Connecting the power cables & communication cable, and controllers

You must connect the following three electrical cables to the outdoor unit:

- The main power cable between the auxiliary circuit breaker and the outdoor unit.
- The outdoor-to-indoor power cable between the outdoor unit and the indoor unit.
- The communication cable between the outdoor unit and the indoor unit.

## ⚠ CAUTION

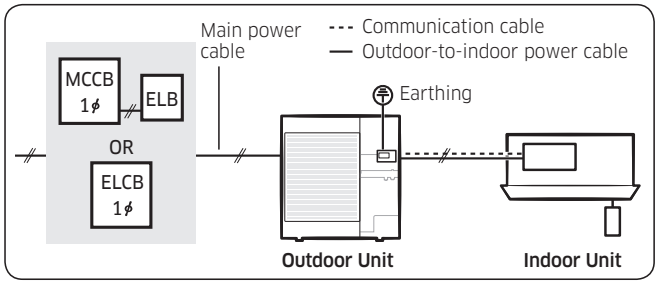
- During installation, make first the refrigerant connections and then the electrical connections. If the unit is uninstalled, first disconnect the electrical cables and then the refrigerant connections.
- Connect the air conditioner to the earthing system before making the electrical connections.

## NOTE

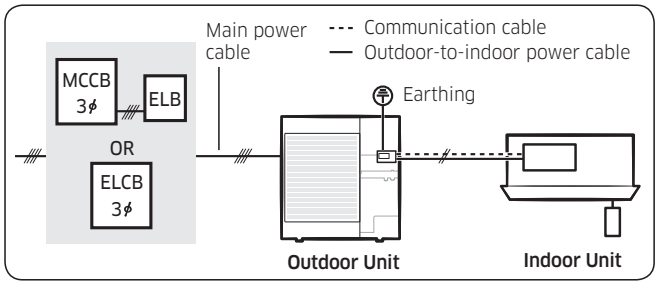
- Especially, if your outdoor unit is the one designed for Russian and European markets, consult the supply authority, if necessary, to estimate and reduce the supply system impedance before installation.

### Air conditioning system examples

When using earth leakage circuit breaker (ELCB) for a single phase




When using earth leakage circuit breaker (ELCB) for a 3-phase, 4-wire system (3P4W)

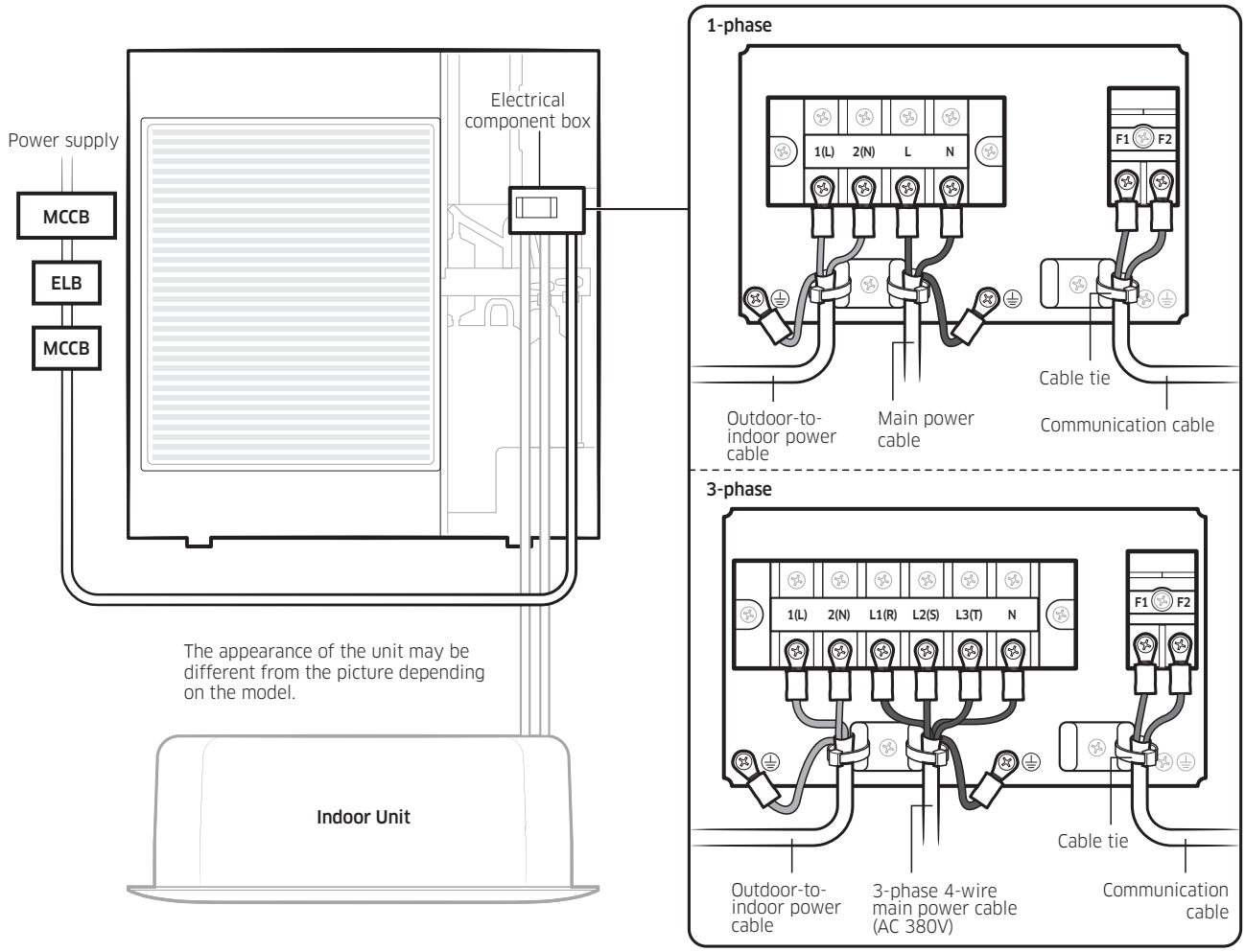



## ⚠ CAUTION

- If the outdoor unit is installed in a location vulnerable to an electric leak or submergence, make sure to install an ELCB.

# Installation

When using ELB for1 phase and 3 phase



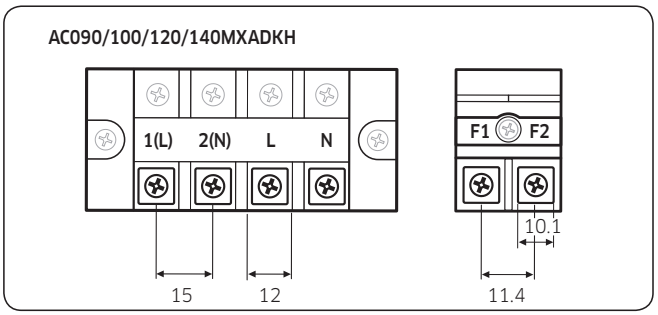

## ⚠ CAUTION

- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 2% of supply rating.
  If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units within ducts. (with appropriate IP rating and material selection for your application)
- Ensure that main supply connection is made through a switch that disconnects all poles, with contact gap of a least 3 mm.
- Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.
- Keep distances of 50 mm or more between power cable and communication cable.

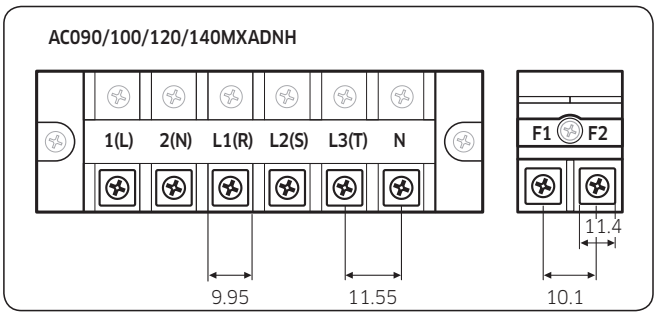
# Installation

Main power terminal block specifications

- 1-phase terminal block specifications




- 3-phase terminal block specifications



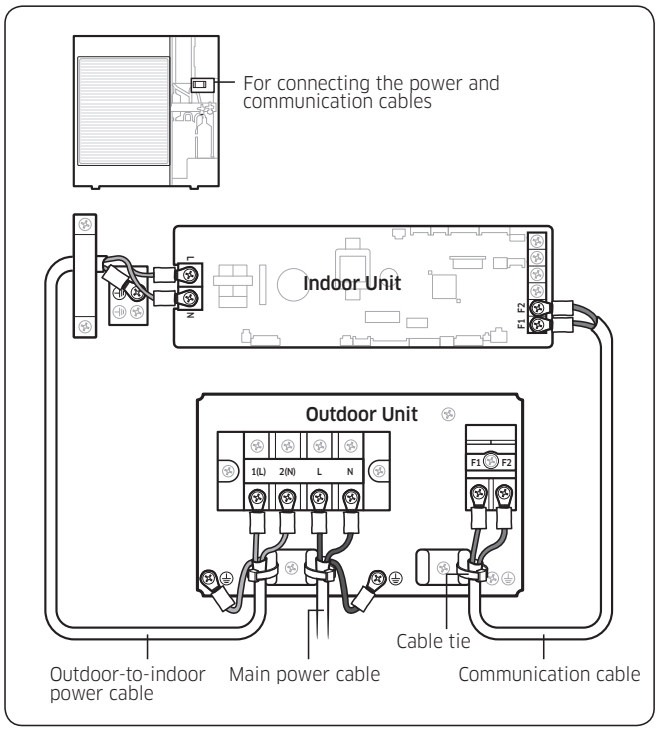

Main power cable specifications

The power cable is not supplied with air conditioner.

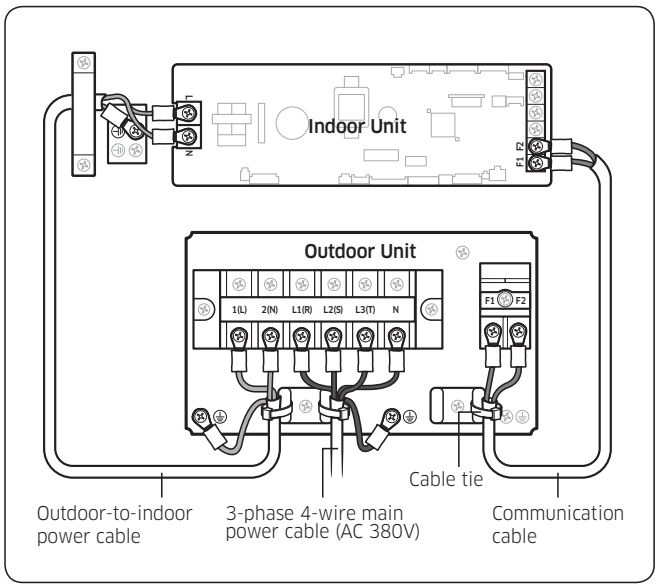
- Select the power supply cable in accordance with relevant local and national regulations.
- Wire size must comply with the applicable local and national code.
- Specifications for local wiring power cord and branch wiring are in compliance with local cord.

## Connecting the power cables & communication cable, and controllers

1-phase




3-phase



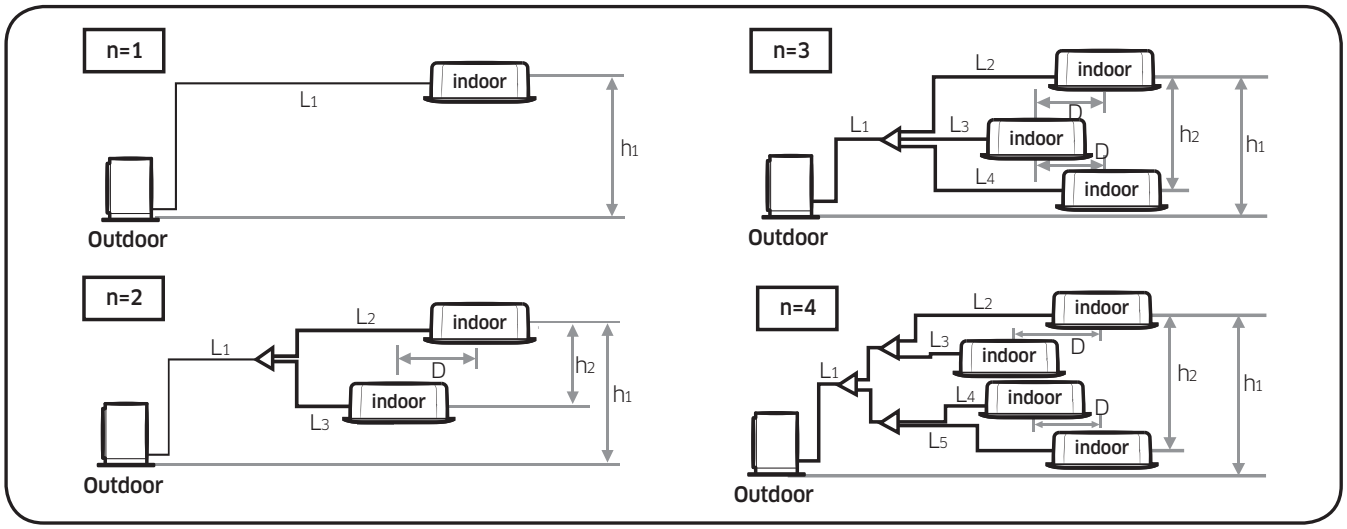
# Installation

## Connecting the refrigerant pipe

| Items | Maximum allowable length | | | | |
|---|---|---|---|---|---|
| | Single installation | | | | |
| Applicable outdoor unit models | AC026MXADKH<br>AC035MXADKH | AC052MXADKH<br>AC060MXADKH | AC071MXADKH | AC090MXAD✻H<br>AC100MXAD✻H<br>AC120MXAD✻H | AC140MXAD✻H |
| Total pipe length ($L_1$+$L_2$+$L_3$) | - | - | - | - | - |
| Main pipe ($L_1$) | 20m | 30m | 50m | 50m | 75m |
| Max. distance among indoor units (D) | - | - | - | - | - |
| Max. length after branch | - | - | - | - | - |
| Max. height difference between outdoor and indoor units ($h_1$) | 15m | 20m | 30m | 30m | 30m |
| Max. height difference among indoor units($h_2$) | - | - | - | - | - |
| Max Pipe length difference among indoor units after branch ($L_2$-$L_3$) | - | - | - | - | - |

| Items | Maximum allowable length | | |
|---|---|---|---|
| | DPM installation | | |
| Applicable outdoor unit models | AC071MXADKH | AC100MXAD✻H<br>AC120MXAD✻H | AC140MXAD✻H |
| Total pipe length ($L_1$+$L_2$+$L_3$) | 50m | 50m | 75m |
| Main pipe ($L_1$) | 30m | 30m | 50m |
| Max. distance among indoor units (D) | 10m | 10m | 10m |
| Max. length after branch | 15m | 15m | 15m |
| Max. height difference between outdoor and indoor units ($h_1$) | ±30m | 30m | 30m |
| Max. height difference among indoor units($h_2$) | ±0.5m | 0.5m | 0.5m |
| Max Pipe length difference among indoor units after branch ($L_2$-$L_3$) | ±5m | 5m | 5m |

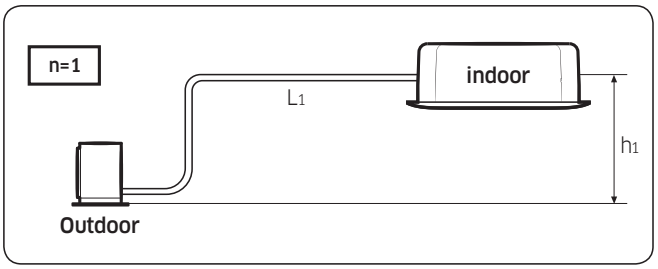
※ "n" means the number of indoor unit connection of DPM.




※ Use a joint kit that is only for DPM.

# Installation

| Items | Maximum allowable length | |
|---|---|---|
| Outdoor unit models | AC090MXADKH<br>AC100MXADKH<br>AC100MXADNH<br>AC120MXADKH<br>AC120MXADNH | AC140MXADKH<br>AC140MXADNH |
| Main pipe (L1) | 50 m | 75 m |
| Max. height difference between outdoor and indoor units (h1) | 30 m | 30 m |

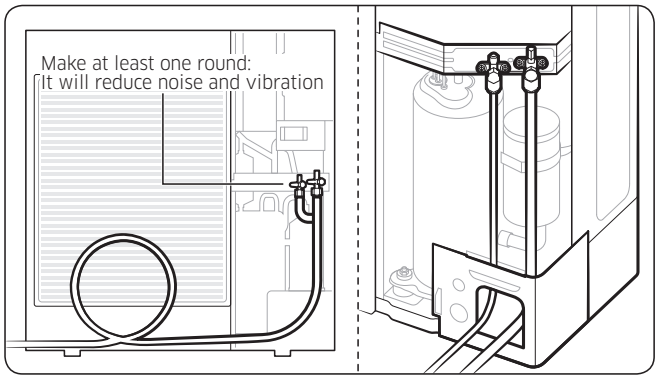



- Temper grade and minimum thickness of the refrigerant pipe

| Outer diameter [mm] | Minimum thickness [mm] | Temper grade |
|---|---|---|
| ø6.35 | 0.7 | C1220T-O |
| ø9.52 | 0.7 | |
| ø12.70 | 0.8 | |
| ø15.88 | 1.0 | |
| ø15.88 | 0.8 | C1220T-1/2H OR C1220T-H |
| ø19.05 | 0.9 | |
| ø22.23 | 0.9 | |

## ⚠ CAUTION

- Be sure to use C1220T-1/2H (Semi-hard) pipe for more than Ø19.05 mm. If you use C1220T-O (Soft) pipe for Ø19.05 mm, the pipe may be broken, which can result in an injury.




- The appearance of the unit may be different from the diagram depending on the model.

## ⚠ CAUTION

- After connecting the pipes with knock-out treatment, plug the space around the pipes.
- After connecting the pipes, proceed exactly as directed in the guide to prevent interference with the internal parts.

# Accessory

## Controller

| Classification | Product | Image | Model | Remark |
|---|---|---|---|---|
| Intergrated Management System | DMS 2.0 |  | MIM-D00AN | |
| | DMS 2.5 |  | MIM-D01AN | |
| | S-NET 3 |  | MST-P3P | |
| Buiding Management System | BACnet G/W |  | MIM-B17N | |
| | | | MIM-B17BN | |
| | LONWORKS G/W |  | MIM-B18N | |
| | | | MIM-B18BN | |
| Centralized Control System | On/Off Controller |  | MCM-A202DN | |
| | Touch Controller |  | MCM-A300N | |
| | Wi-Fi Kit |  | MIM-H03N | |
| Individual Control System | Wireless remote Controller |  | AR-EH03E | Except for 360 Cassette |
| | |  | MR-KH00E | 360 Cassette Only |
| | Wired remote Controller |  | MWR-WE13N | |
| | |  | MWR-SH00N | Simple Type |
| | |  | MWR-SH10N | Touch Simple Type |

# Accessory

## Controller

| Classification | Product | Image | Model | Remark |
|---|---|---|---|---|
| Zone Control System | External room sensor |  | MRW-TS | |
| Others | External room sensor |  | MRW-TA | |
| | Compatible interface module |  | MIM-N01 | |
| | External contact interface module |  | MIM-B14 | |
| | Modbus Interface Module |  | MIM-B19N | |
| | S-Converter |  | MIM-C02N | |
| | Wireless signal receiver |  | MRK-A10N | Duct type only |

- In case you want more information about the accessories, please refer to the control and accessories TDB on pvi.samsung.com site.

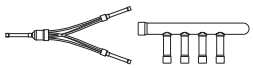
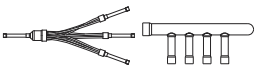
# Accessory

## Indoor Unit's Accessory

| Product | Image | Model | Remark |
|---|---|---|---|
| Panel |  | PC1NUSMAN | Slim 1Way Cassette |
| |  | PC1NUPMAN | Slim 1Way Cassette (Z-sliding) |
| |  | PC1MWSKAN | Slim 1Way Cassette |
| |  | PC4SUSMBN | 4 Way Cassette(600 x 600) (Waffle) |
| |  | PC4SUSMFN | 4 Way Cassette(600 x 600) (Classic) |
| |  | PC4SUFMAN | Wind-Free 4 Way Cassette(600 x 600) |
| |  | PC4NUSKAN | 4 Way Cassette (Waffle) |
| |  | PC4NUSKEN | 4 Way Cassette (Classic) |
| |  | PC4NUFMAN | Wind-Free 4 Way Cassette |
| |  | PC4NBSKAN | 4 Way Cassette (Waffle / Black) |
| |  | PC4NUDMAN | 360 Cassette Square (White) |
| |  | PC4NUNMAN | 360 Cassette Circle (White) |

# Accessory

## Indoor Unit's Accessory

| Product | Image | Model | Remark |
|---|---|---|---|
| Panel |  | PC4NBDMAN | 360 Cassette Square (Black) |
| |  | PC4NBNMAN | 360 Cassette Circle (Black) |
| S-Plasma Ion KIT |  | MSD-CAN1 | [Option] 4Way, 4Way(600x600), 360, Ceiling<br>[Included] Console |
| | | MSD-EAN1 | [Option] Duct S, Big Duct, ERV, ERV Plus |
| Motion detect Sensor |  | MCR-SMA | 4 Way Cassette(600 x 600) |
| Drain Pump |  | MDP-E075SEE3D | Slim Duct |
| |  | MDP-G075SP | Duct S (External) |
| |  | MDP-G075SQ | Duct S (Internal) |
| Joint |  | MXJ-2D2509K | 2 indoor units connection |
| |  | MXJ-3D2509K | 3 indoor units connection |
| |  | MXJ-4D2509K | 4 indoor units connection |

- In case you want more information about the accessories, please refer to the control and accessories TDB on pvi.samsung.com site.

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