

4Way Cassette

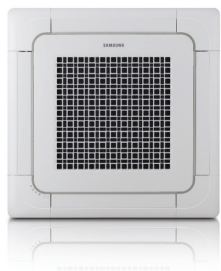
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Features & Benefits

4Way Cassette S

Stage a beautiful yet comfortable environment

With its newly improved design, 4Way Cassette S 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 4Way Cassette S 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.

4Way Cassette S – Stylishly clean design

Complement any interior with a sleek, lightweight design

The new Samsung 4Way Cassette S indoor air conditioner comes in a choice of patterns with a simple panel to better match the interior design. Its uniquely lightweight frame makes installation easy, while clever blade construction keeps the unit clean for a tidy appearance.



Neat and clean design

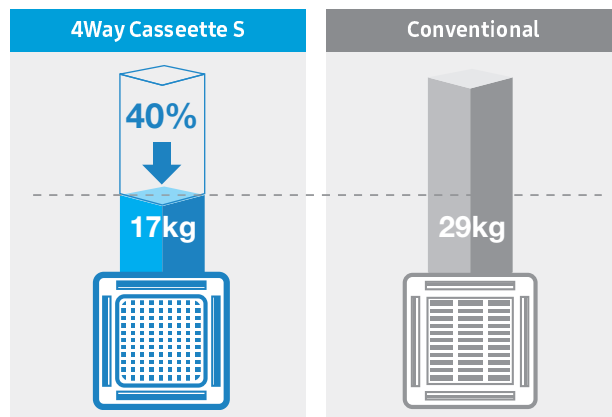
The indoor 4Way Cassette S boasts a smart design that promotes a neat and clean look. The completely hermetic blade structure keeps the indoor unit clean by preventing dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight when the blade is shut,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

Lightweight build

The Samsung 4Way Cassette S 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.

Aesthetic panel and display

4Way Cassette S offers two different pattern designs for the panel. Users can select either the Waffle or Classic pattern to create just the right look to suit their design preference. Plus, the simple display design with rounded corners adds a chic sophistication to the interior.



*Based on 10kW

1. Specification

4Way Cassette

| Model Name | Indoor Unit | | | AC052MN4DKH/EU | AC071MN4DKH/EU | AC090MN4DKH/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 | Max. | m | 5 | 5 | 5 |
| | | | Elevation | m | 30 | 50 | 50 |
| | | | Chargeless | 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 ₂ e | 1.3 / 2.71 | 1.5 / 3.13 | 3.0 / 6.26 | |

1. Specification

4Way Cassette

| | | | | | | | |
|------------------------|------------------------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Indoor Unit | Model Name | Indoor Unit | | AC052MN4DKH/EU | AC071MN4DKH/EU | AC090MN4DKH/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 | | Ø, 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 (1) | Model Name | | - | PC4NUSKAN | PC4NUSKAN | PC4NUSKAN |
| | | Type | | - | Waffle Type | Waffle Type | Waffle Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | White | White | White |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Panel (2) | Model Name | | - | PC4NBSKAN | PC4NBSKAN | PC4NBSKAN |
| | | Type | | - | Waffle Type | Waffle Type | Waffle Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | Black | Black | Black |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Panel (3) | Model Name | | - | PC4NUSKEN | PC4NUSKEN | PC4NUSKEN |
| | | Type | | - | Stripe Type | Stripe Type | Stripe Type |
| | | Material | | - | ABS | ABS | ABS |
| | | Color | | - | White | White | White |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Control System | Infrared remote control | | - | MR-EH00 | MR-EH00 | MR-EH00 |
| Control System | Wired remote control | | - | MWR-WE10N / MWR-WE11N | MWR-WE10N / MWR-WE11N | MWR-WE10N / MWR-WE11N | |
| 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

4Way Cassette

| | | | | | | | | | |
|-----------------------|--------------------|---------|-----------------------------|----------------|-------------------|-------------------|-------------------|------------------|-------|
| Outdoor Unit | Model Name | | Indoor Unit | AC052MN4DKH/EU | AC071MN4DKH/EU | AC090MN4DKH/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 | - | EGI Steel Plate | | EGI Steel Plate | | |
| | | | Body | | EGI Steel Plate | | EGI Steel Plate | | |
| Operating Temp. Range | | Cooling | | °C | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 | | |
| | | Heating | | °C | -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

4Way Cassette

| Model Name | Indoor Unit | | AC100MN4DKH/EU | AC100MN4DKH/EU | AC120MN4DKH/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 | 171 | 25 | |
| | | MFA | A | 30 | 171 | 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 ₂ e | 3.0 / 6.26 | 3.0 / 6.26 | 3.0 / 6.26 | |

1. Specification

4Way Cassette

| | | | | | | | |
|------------------------|------------------------------------|------------------------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Indoor Unit | Model Name | | Indoor Unit | | AC100MN4DKH/EU | AC100MN4DKH/EU | AC120MN4DKH/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 (1) | Model Name | | - | PC4NUSKAN | PC4NUSKAN | PC4NUSKAN |
| | | Type | | - | Waffle Type | Waffle Type | Waffle Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | White | White | White |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Panel (2) | Model Name | | - | PC4NBSKAN | PC4NBSKAN | PC4NBSKAN |
| | | Type | | - | Waffle Type | Waffle Type | Waffle Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | Black | Black | Black |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Panel (3) | Model Name | | - | PC4NUSKEN | PC4NUSKEN | PC4NUSKEN |
| | | Type | | - | Stripe Type | Stripe Type | Stripe Type |
| | | Material | | - | ABS | ABS | ABS |
| | | Color | | - | White | White | White |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Control System | Infrared remote control | | - | MR-EH00 | MR-EH00 | MR-EH00 |
| | Control System | Wired remote control | | - | MWR-WE10N / MWR-WE11N | MWR-WE10N / MWR-WE11N | MWR-WE10N / MWR-WE11N |
| 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

4Way Cassette

| | | | | | | | |
|--------------|--------------------|-----------------------------|----------------|-------------------|-------------------|-------------------|------------------|
| Outdoor Unit | Model Name | Indoor Unit | | AC100MN4DKH/EU | AC100MN4DKH/EU | AC120MN4DKH/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 |
| | | | 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 | - | EGL Steel Plate | EGL Steel Plate | EGL Steel Plate |
| | | Operating Temp. Range | | °C | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 |
| | Heating | | °C | -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

4Way Cassette

| Model Name | Indoor Unit | | | AC120MN4DKH/EU | AC140MN4DKH/EU | AC140MN4DKH/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 | 171 | 33 | 171 | |
| | | MFA | A | 171 | 40 | 171 | |
| 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+) | 3.0 | 3.0 | |
| | SCOP (Heating Energy Grade) | | W/W | 4.1 (A+) | 3.4 | 3.4 | |
| | Pdesignh | | kW | 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 | Max. | m | 5 | 5 | 5 |
| | | | Elevation | m | 30 | 30 | 30 |
| | | | Chargeless | m | 30 | 30 | 30 |
| | | | 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 ₂ e | 3.0 / 6.26 | 3.4 / 7.10 | 3.4 / 7.10 | |

1. Specification

4Way Cassette

| | | | | | | | |
|------------------------|------------------------------------|------------------------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Indoor Unit | Model Name | Indoor Unit | | AC120MN4DKH/EU | AC140MN4DKH/EU | AC140MN4DKH/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 | | Ø, 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 (1) | Model Name | | - | PC4NUSKAN | PC4NUSKAN | PC4NUSKAN |
| | | Type | | - | Waffle Type | Waffle Type | Waffle Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | White | White | White |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Panel (2) | Model Name | | - | PC4NBSKAN | PC4NBSKAN | PC4NBSKAN |
| | | Type | | - | Waffle Type | Waffle Type | Waffle Type |
| | | Material | | - | HIPS | HIPS | HIPS |
| | | Color | | - | Black | Black | Black |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Panel (3) | Model Name | | - | PC4NUSKEN | PC4NUSKEN | PC4NUSKEN |
| | | Type | | - | Stripe Type | Stripe Type | Stripe Type |
| | | Material | | - | ABS | ABS | ABS |
| | | Color | | - | White | White | White |
| | | Net Weight | | kg | 5.9 | 5.9 | 5.9 |
| | | Shipping Weight | | kg | 8 | 8 | 8 |
| | | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | | Shipping Dimensions (WxHxD) | | mm | 1005 x 100 x 1005 | 1005 x 100 x 1005 | 1005 x 100 x 1005 |
| | Control System | Infrared remote control | | - | MR-EH00 | MR-EH00 | MR-EH00 |
| | Control System | Wired remote control | | - | MWR-WE10N / MWR-WE11N | MWR-WE10N / MWR-WE11N | MWR-WE10N / MWR-WE11N |
| 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

4Way Cassette

| | | | | | | | | |
|-----------------------|--------------------|---------|-----------------------------|----------------|-------------------|-------------------|-------------------|------------------|
| Outdoor Unit | Model Name | | Indoor Unit | AC120MN4DKH/EU | AC140MN4DKH/EU | AC140MN4DKH/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 | |
| | | | Material | Fin | - | Al | Al | Al |
| | | | | Tube | - | Cu | Cu | Cu |
| | Fin Treatment | | - | | Green Hydrophile | Green Hydrophile | Green Hydrophile | |
| | Compressor | | Model Name | | 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 | |
| | | | Discharge direction | | - | 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 | |
| | | | 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 | |
| | | | Shipping Weight | | kg | 82 | 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 | - | | EGl Steel Plate | |
| - | | | | | EGl Steel Plate | | | |
| Operating Temp. Range | | Cooling | | °C | -15 ~ 50 | -15 ~ 50 | | |
| | | Heating | | °C | -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

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) | | | | | |
| AC052MN4DKH/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 | - |
| AC071MN4DKH/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 | - |
| AC090MN4DKH/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 | - |
| AC100MN4DKH/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 | - |
| AC120MN4DKH/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 | - |
| AC140MN4DKH/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 Hz | Voltage range | | Outdoor Unit | | Indoor Unit | Total | MCA(A) | MFA(A) | |
| | | | Volts | Min. | Max. | Cooling | | | | | Heating |
| AC052MN4DKH/EU | AC052MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |
| AC071MN4DKH/EU | AC071MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 20 | 20 | 1 | 21 | 21 | 25 |
| AC090MN4DKH/EU | AC090MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 24 | 24 | 1 | 25 | 25 | 30 |
| AC100MN4DKH/EU | AC100MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 24 | 24 | 1 | 25 | 25 | 30 |
| AC100MN4DKH/EU | AC100MXADNH/EU | 50 | 380 to 415 | 342 | 456.5 | 16.1 | 16.1 | 1 | 17.1 | 17.1 | 17.1 |
| AC120MN4DKH/EU | AC120MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 24 | 24 | 1 | 25 | 25 | 30 |
| AC120MN4DKH/EU | AC120MXADNH/EU | 50 | 380 to 415 | 342 | 456.5 | 16.1 | 16.1 | 1 | 17.1 | 17.1 | 17.1 |
| AC140MN4DKH/EU | AC140MXADKH/EU | 50 | 220 to 240 | 198 | 264 | 32 | 32 | 1 | 33 | 33 | 40 |
| AC140MN4DKH/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

4Way Cassette

(1) AC052MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(2) AC071MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(3) AC090MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(4) AC100MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(5) AC100MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(6) AC120MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(7) AC120MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(8) AC140MN4DKH/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

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(9) AC140MN4DKH/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

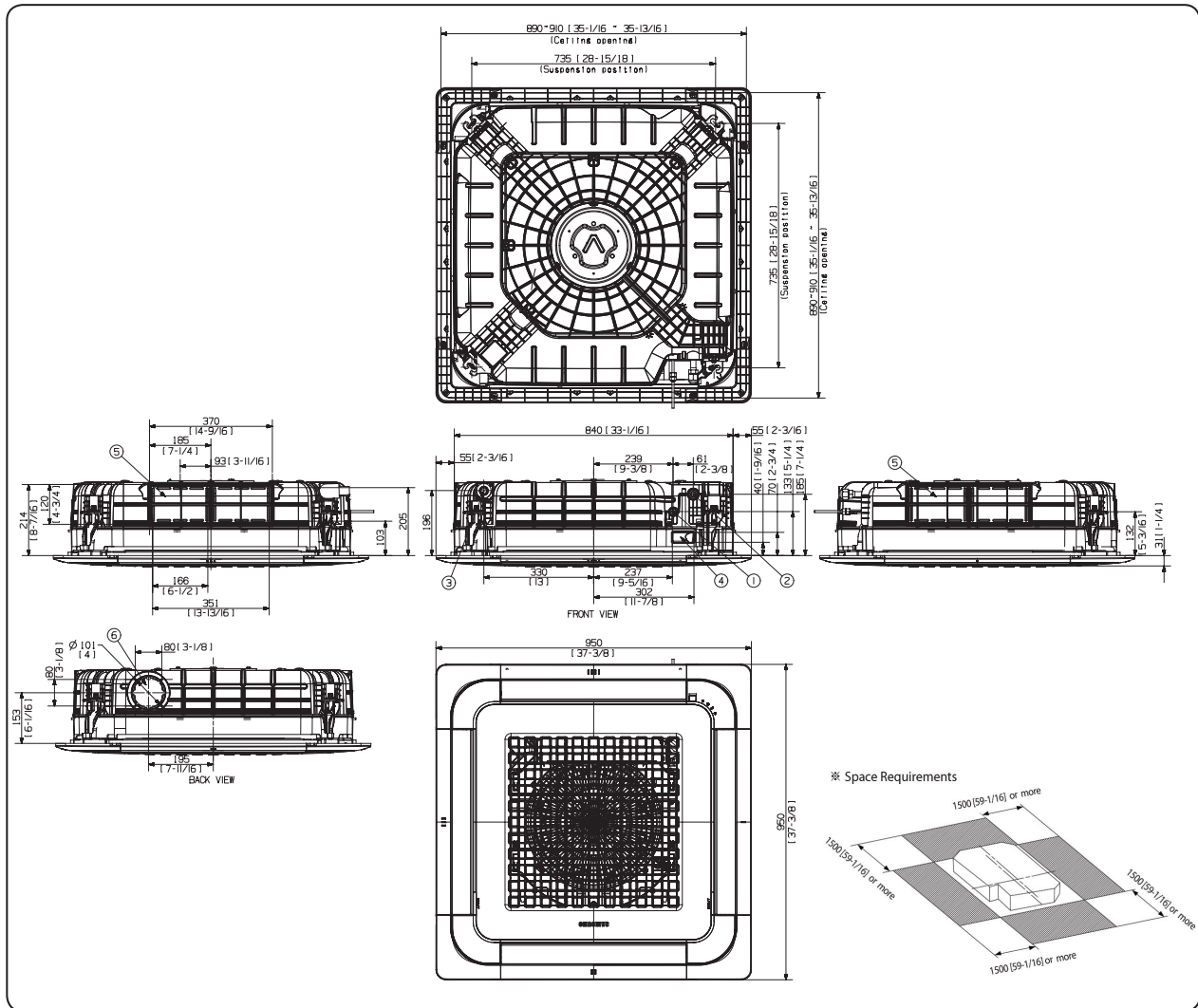
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

4Way Cassette

AC052/071MN4DKH/EU

Units : mm [inches]



| No. | Name | Description | |
|-----|---|----------------------|----------------|
| | | AC052MN4DKH/EU | AC071MN4DKH/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 | Sub duct connection | Use M4 Screw | |
| 6 | Fresh air intake knockout hole | Φ10[4], Use M4 Screw | |

NOTE

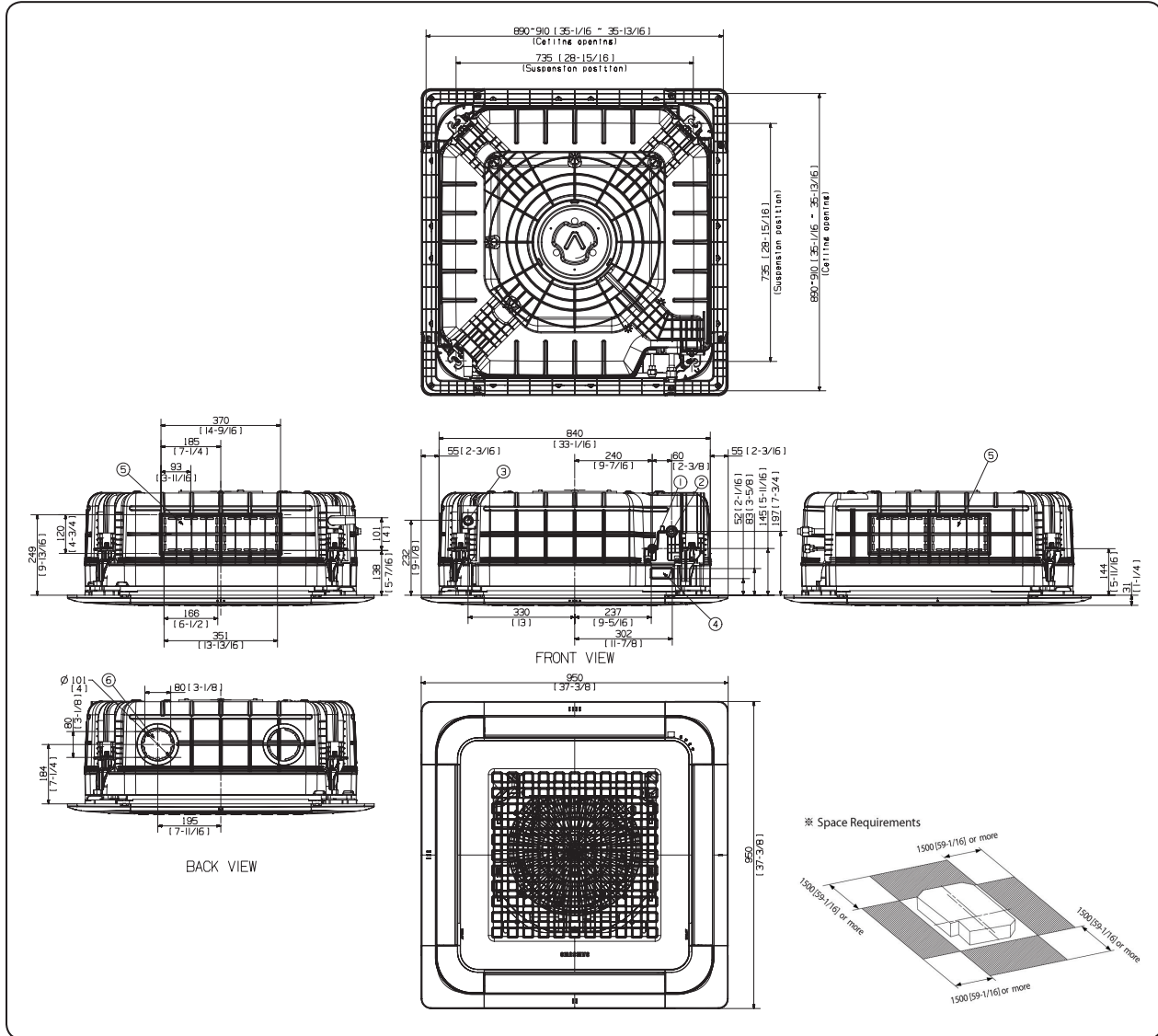
- As for suspension bolt, please use M8 ~ M10.
(Procured at local site)

4. Dimensional Drawing

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 | Sub duct connection | Use M4 Screw |
| 6 | Fresh air intake knockout hole | Φ10[4], Use M4 Screw |

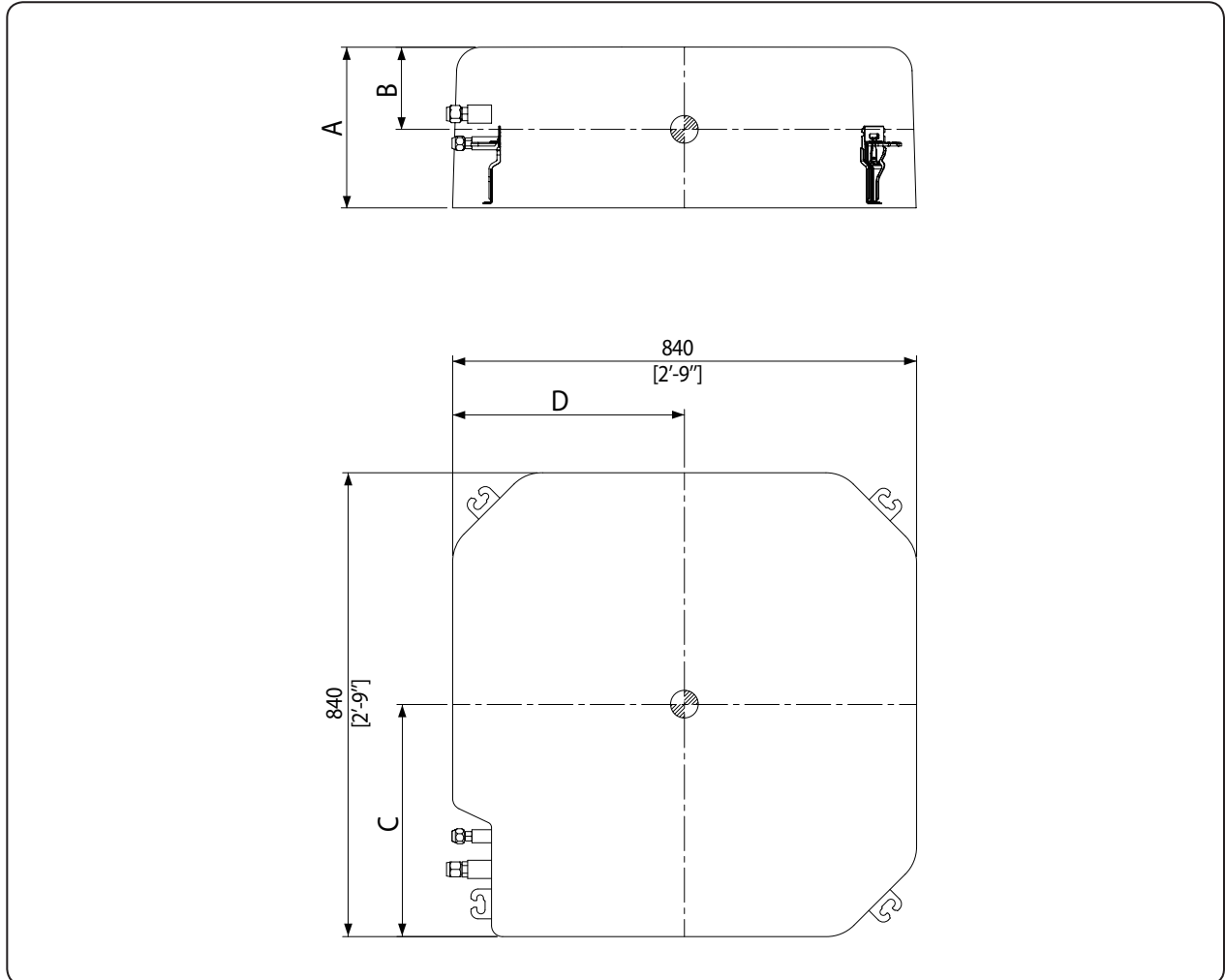
NOTE

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

5. Center of Gravity

4Way Cassette

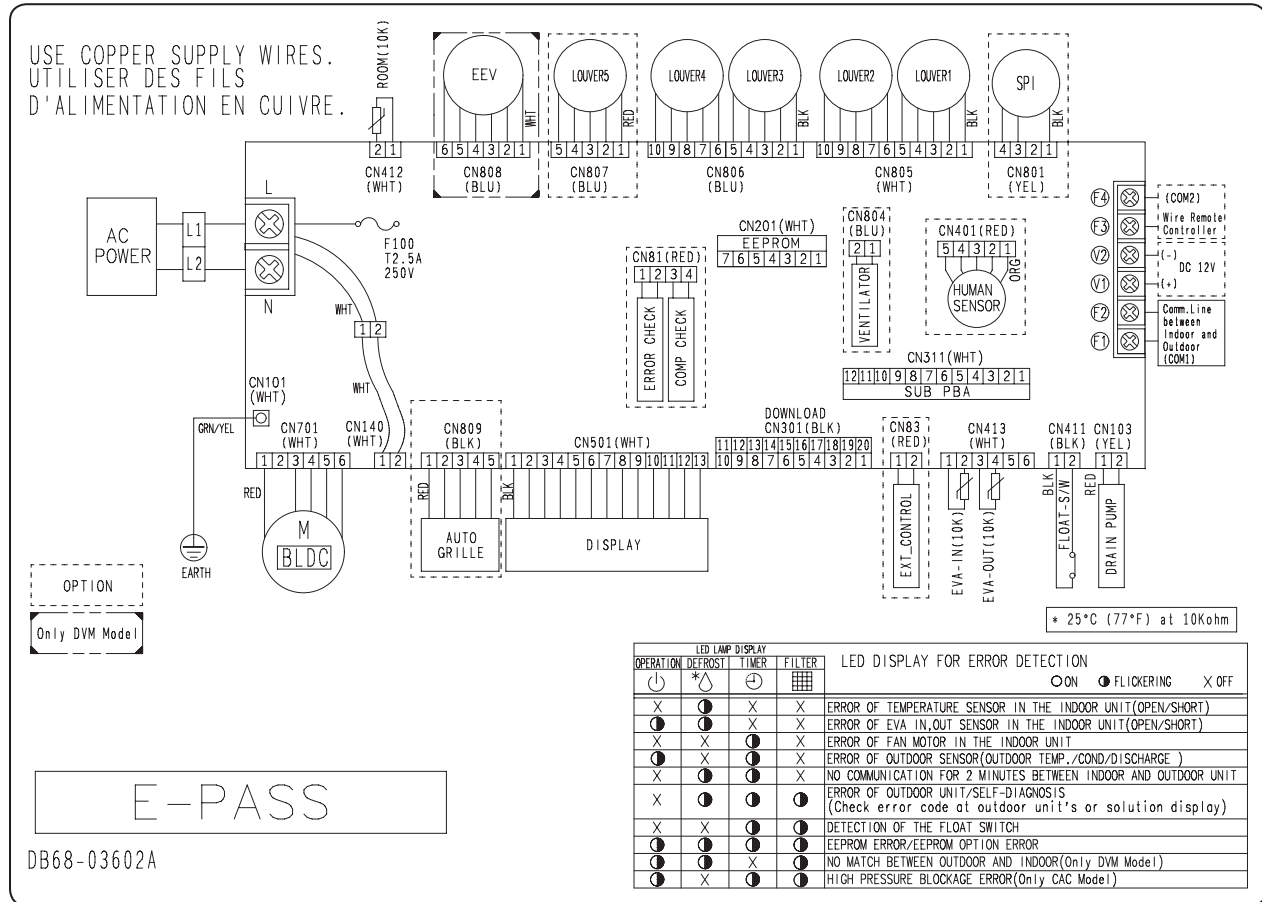
Units : mm [inches]



| | A | B | C | D |
|------------|--------------|------------|--------------|---------------|
| ~ 7.1kW | 204 [8] | 70 [2-3/4] | 410 [16-1/8] | 360 [14-3/16] |
| 9kW ~ 14kW | 288 [11-3/8] | 130 [5] | 420 [16-1/2] | 420 [16-1/2] |

6. Electrical Wiring Diagram

4Way Cassette



| | | | | | |
|---------|----------------------------|-------------|----------------------------|--------------|--------------------------|
| 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

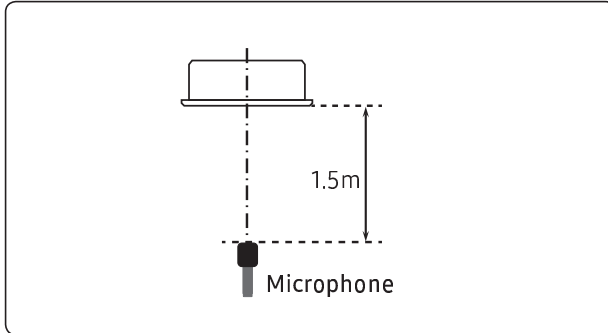
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⚡ Protective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

7. Sound Data

4Way Cassette

Sound Pressure level

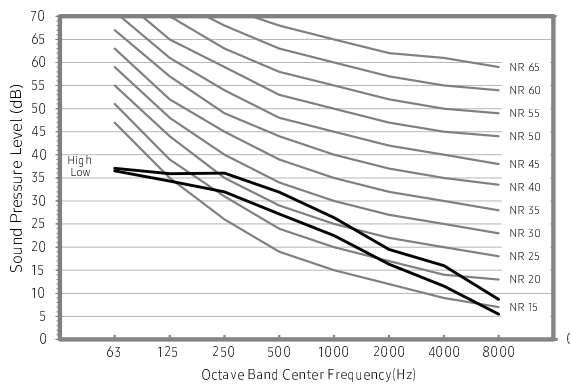
Unit: dB(A)



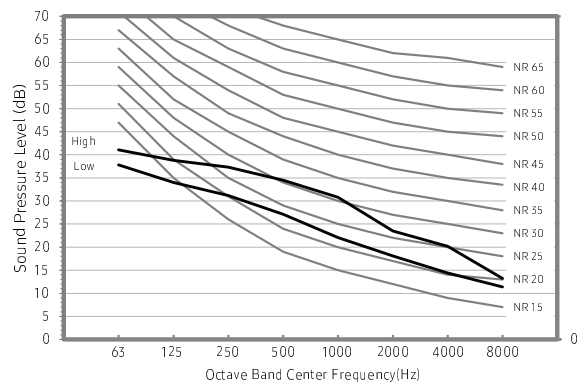
| Model | Hi | MID | LOW |
|----------------|----|-----|-----|
| AC052MN4DKH/EU | 33 | 31 | 29 |
| AC071MN4DKH/EU | 36 | 33 | 29 |
| AC090MN4DKH/EU | 43 | 38 | 33 |
| AC100MN4DKH/EU | 44 | 39 | 33 |

- NR Curve

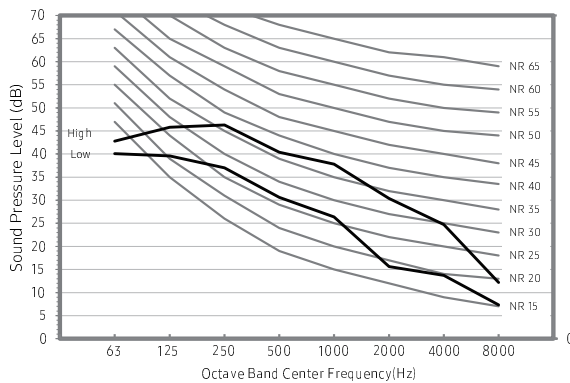
1) AC052MN4DKH/EU



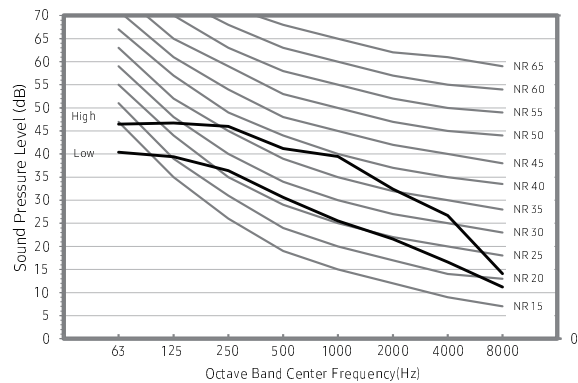
2) AC071MN4DKH/EU



3) AC090MN4DKH/EU



4) AC100MN4DKH/EU



NOTE

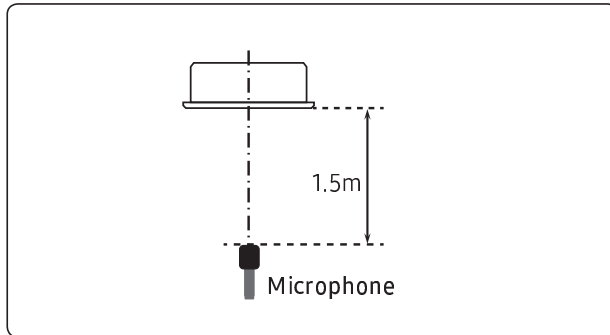
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted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

7. Sound Data

4Way Cassette

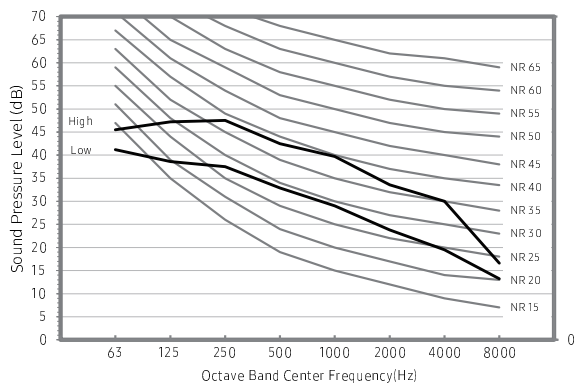
Sound Pressure level

Unit: dB(A)

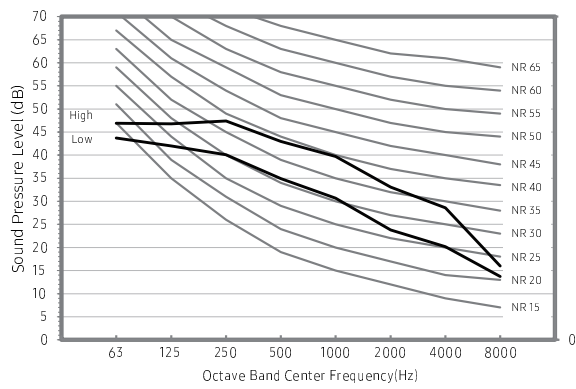


| Model | Hi | MID | LOW |
|----------------|----|-----|-----|
| AC120MN4DKH/EU | 45 | 40 | 35 |
| AC140MN4DKH/EU | 45 | 41 | 37 |

- NR Curve
- 5) AC120MN4DKH/EU



- 6) AC140MN4DKH/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

4Way Cassette

Sound Power level

NOTE

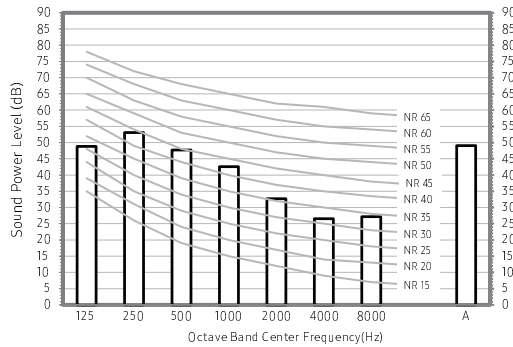
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

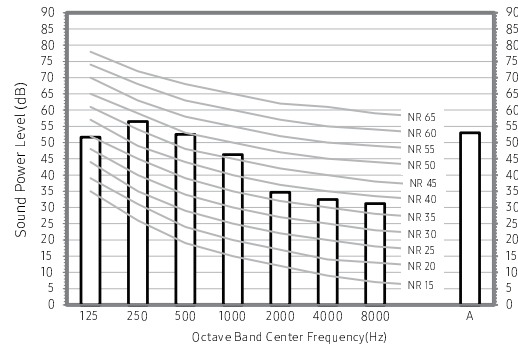
| Model | Power |
|----------------|-------|
| AC052MN4DKH/EU | 49 |
| AC071MN4DKH/EU | 53 |
| AC090MN4DKH/EU | 60 |
| AC100MN4DKH/EU | 61 |
| AC120MN4DKH/EU | 61 |
| AC140MN4DKH/EU | 61 |

• NR Curve

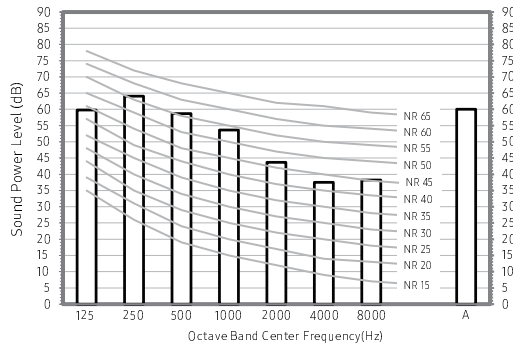
1) AC052MN4DKH/EU



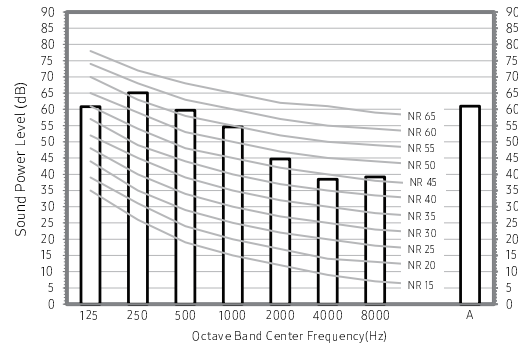
2) AC071MN4DKH/EU



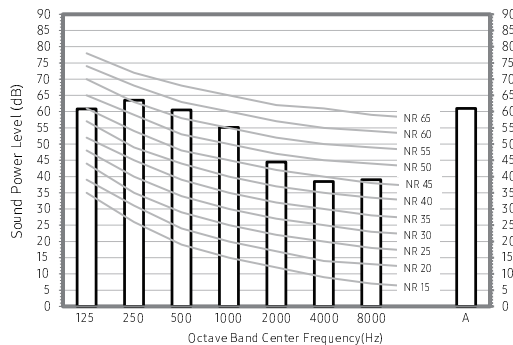
3) AC090MN4DKH/EU



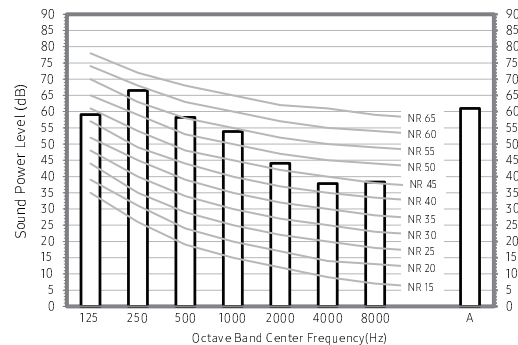
4) AC100MN4DKH/EU



5) AC120MN4DKH/EU



6) AC140MN4DKH/EU

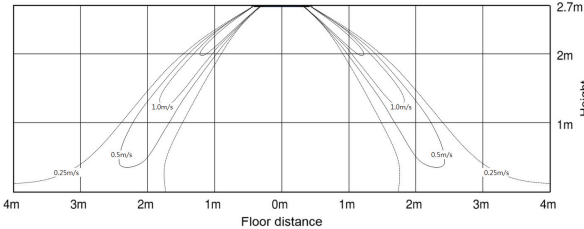


8. Temperature and air flow distribution

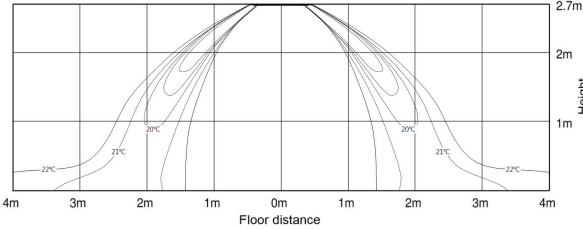
4Way Cassette

AC052MN4DKH/EU

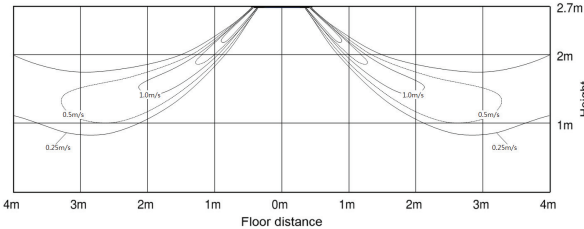
- Cooling Air Velocity distribution
(Discharge angle : 37 degree)



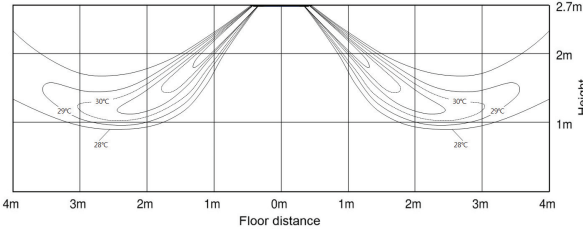
- Cooling temperature distribution
(Discharge angle : 37 degree)



- Heating Air Velocity distribution
(Discharge angle : 43 degree)



- Heating temperature distribution
(Discharge angle : 43 degree)



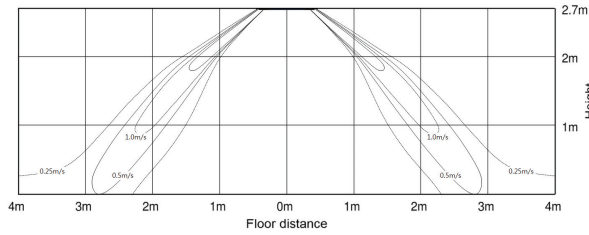
8. Temperature and air flow distribution

4Way Cassette

AC071MN4DKH/EU

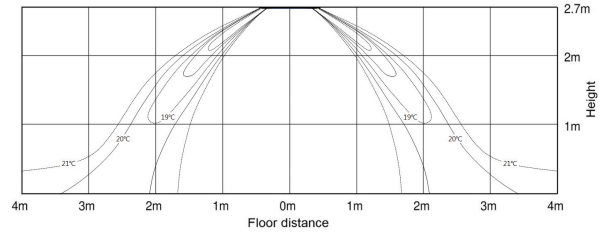
- Cooling Air Velocity distribution

(Discharge angle : 37 degree)



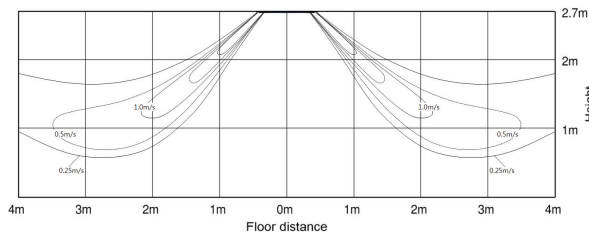
- Cooling temperature distribution

(Discharge angle : 37 degree)



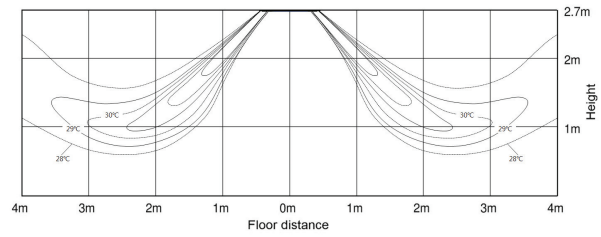
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



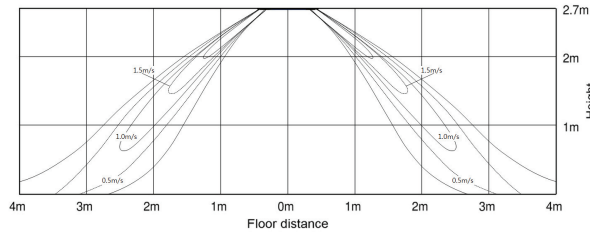
8. Temperature and air flow distribution

4Way Cassette

AC090MN4DKH/EU

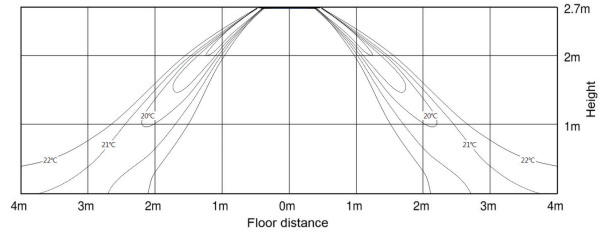
- Cooling Air Velocity distribution

(Discharge angle : 37 degree)



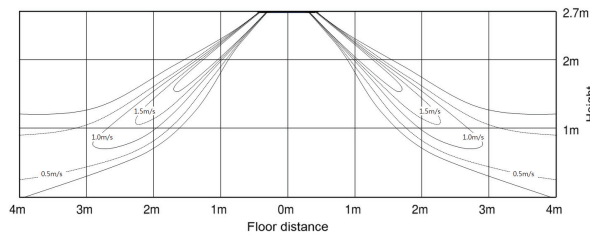
- Cooling temperature distribution

(Discharge angle : 37 degree)



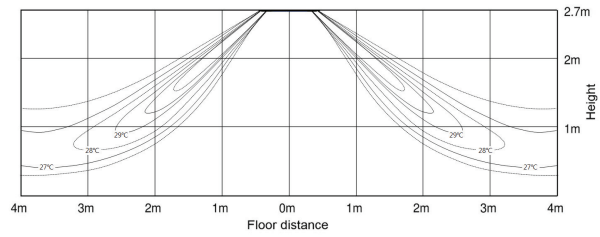
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



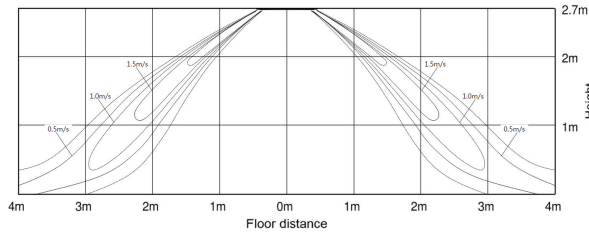
8. Temperature and air flow distribution

4Way Cassette

AC100MN4DKH/EU

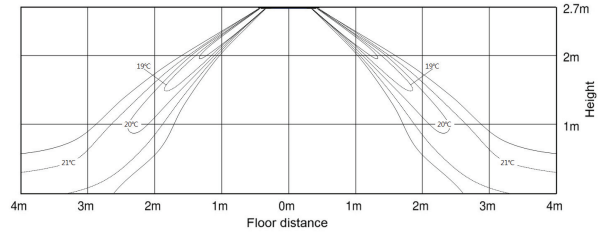
- Cooling Air Velocity distribution

(Discharge angle : 37 degree)



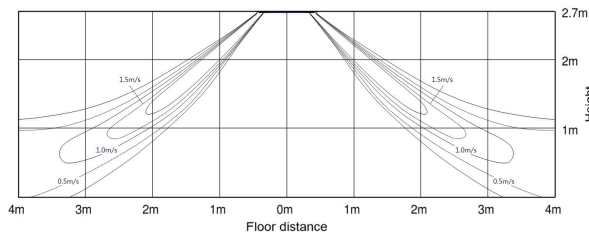
- Cooling temperature distribution

(Discharge angle : 37 degree)



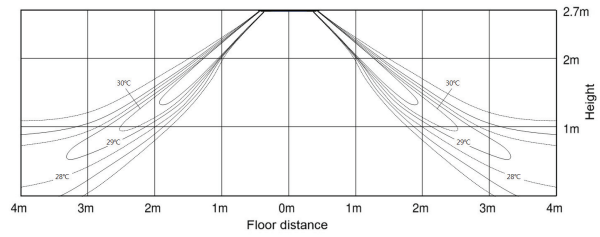
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)

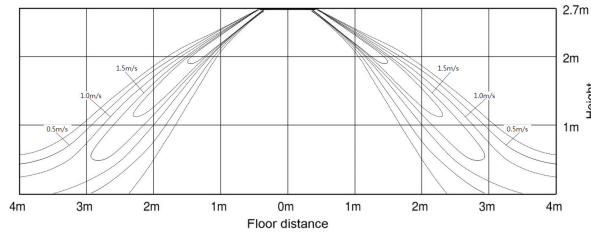


8. Temperature and air flow distribution

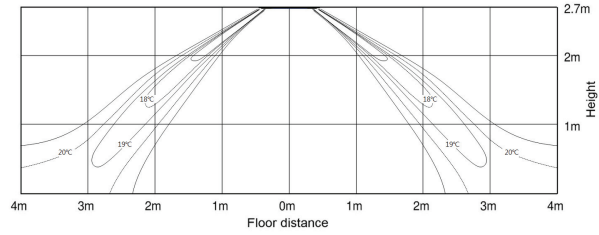
4Way Cassette

AC120MN4DKH/EU

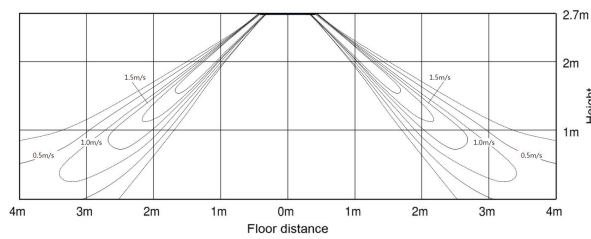
- Cooling Air Velocity distribution
(Discharge angle : 37 degree)



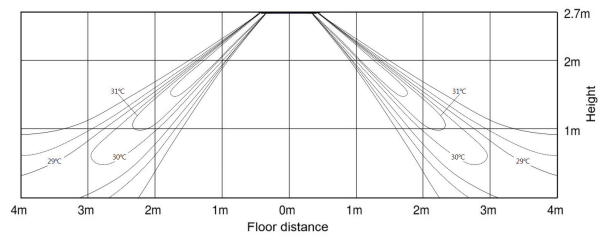
- Cooling temperature distribution
(Discharge angle : 37 degree)



- Heating Air Velocity distribution
(Discharge angle : 43 degree)



- Heating temperature distribution
(Discharge angle : 43 degree)

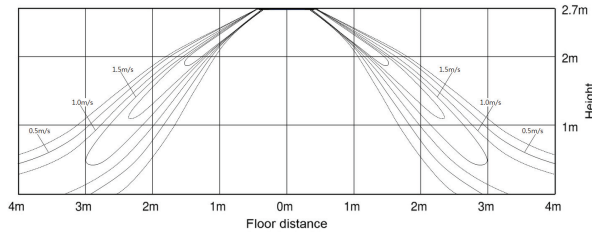


8. Temperature and air flow distribution

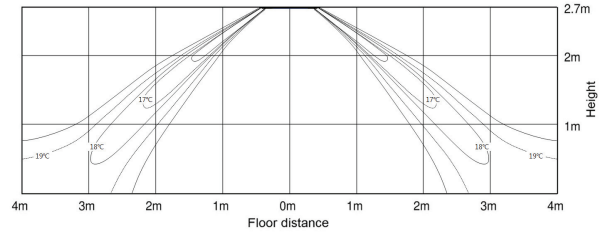
4Way Cassette

AC140MN4DKH/EU

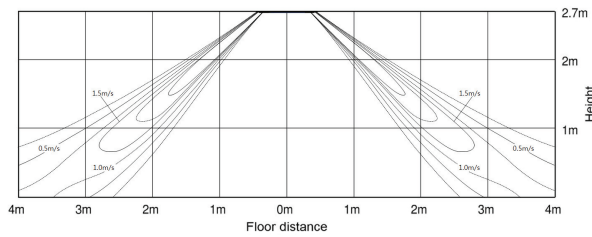
- Cooling Air Velocity distribution
(Discharge angle : 37 degree)



- Cooling temperature distribution
(Discharge angle : 37 degree)



- Heating Air Velocity distribution
(Discharge angle : 43 degree)



- Heating temperature distribution
(Discharge angle : 43 degree)

