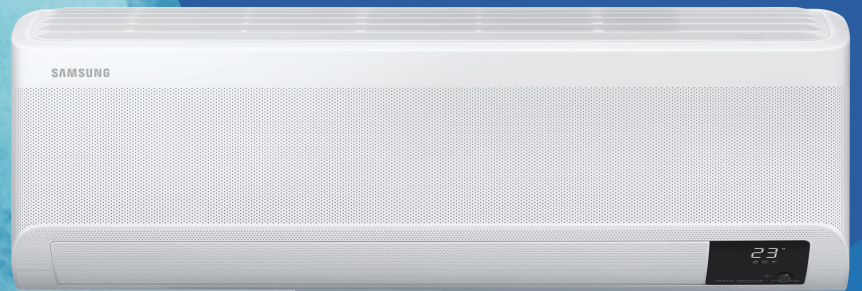


**SAMSUNG**

**VRF**

# Technical Data Book

Wall-Mounted Wind-Free™ for Europe  
(R410A, 50Hz, HP)



Model : AM\*\*\*TN\*DKH/EU



# Nomenclature

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## Indoor Unit

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### Model name

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|           |            |          |          |          |          |          |          |   |           |
|-----------|------------|----------|----------|----------|----------|----------|----------|---|-----------|
| <b>AM</b> | <b>015</b> | <b>T</b> | <b>N</b> | <b>V</b> | <b>D</b> | <b>K</b> | <b>H</b> | / | <b>EU</b> |
| (1)       | (2)        | (3)      | (4)      | (5)      | (6)      | (7)      | (8)      |   | Buyer     |

#### (1) Classification

|    |     |
|----|-----|
| AM | DVM |
|----|-----|

#### (5) Product Notation

|   |                  |
|---|------------------|
| A | EEV NOT INCLUDED |
| V | EEV INCLUDED     |

#### (2) Capacity

|                       |
|-----------------------|
| X 100 Watt (3 digits) |
|-----------------------|

#### (6) Feature

|   |        |
|---|--------|
| D | DELUXE |
|---|--------|

#### (3) Version

|   |      |
|---|------|
| T | 2020 |
|---|------|

#### (7) Rating Voltage

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

#### (4) Product Type

|   |             |
|---|-------------|
| N | Indoor Unit |
|---|-------------|

#### (8) Mode

|   |                   |
|---|-------------------|
| H | Heat Pump (R410A) |
|---|-------------------|

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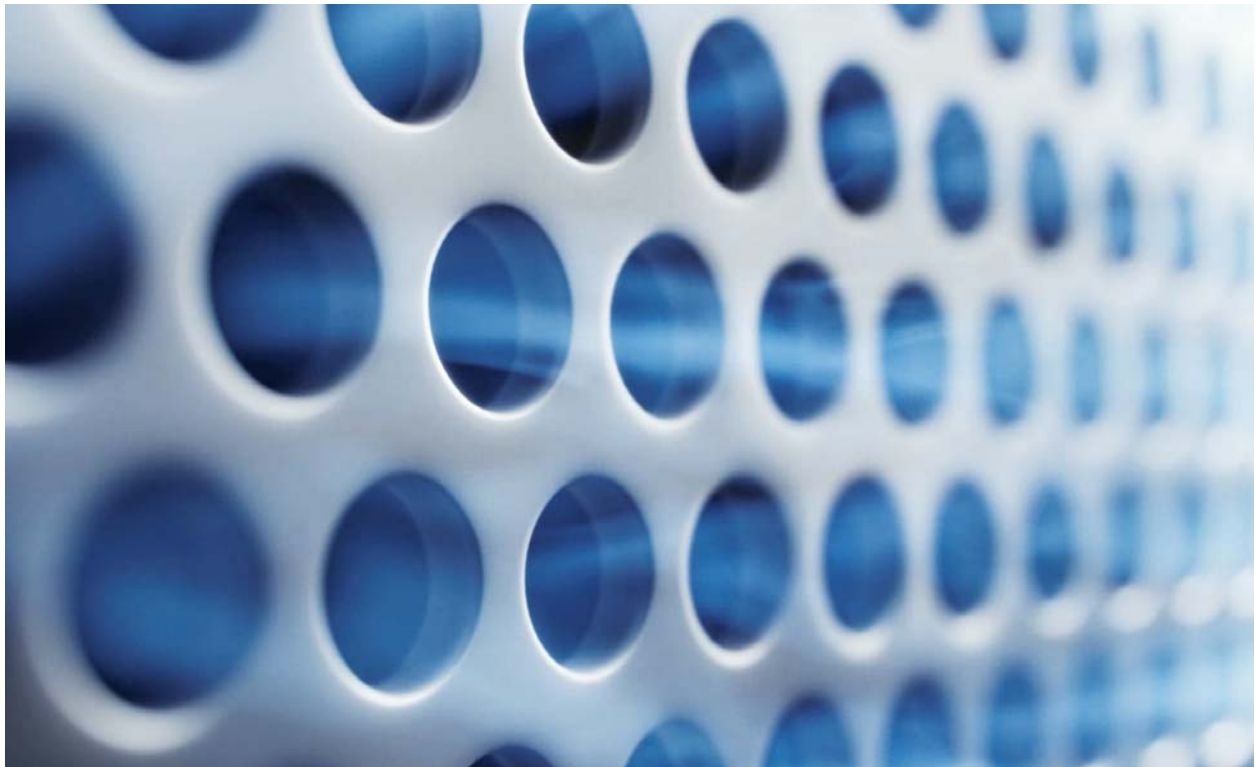
# Features & Benefits

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## Wind-Free™ Cooling

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Get cool fast, stay cool without direct wind.



23,000 Micro air holes



### Cooling

Firstly, the Wind-Free™ air conditioner cools the room with its Cooling mode. When it reaches the desired temperature, you can change the mode to Wind-Free™ Cooling.

### Wind-Free™ Cooling

With Wind-Free™ Cooling mode, cool air is gently dispersed across the room through 23,000 micro air holes. It creates a 'still air' environment with a very low air speed of just 0.15m/s and no temperature fluctuation – so there is NO annoying cold draft and you don't feel too cold, just pleasant comfort.

Stay feeling comfortable cool with Wind-Free™ Cooling. It cools gently and quietly without the unpleasant feeling of cold wind on your skin, as it disperses air through 23,000 micro air holes. It creates a "Still Air" environment\* with a very low air speed and much less noise\*\*. Its advanced airflow structure also means it cools a wider and larger area more evenly.

\* ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15m/s which lacks the presence of cold draft s. \*\* Tested on the AR12TXCAAWKNEU model. Wind-Free™ mode generates only 23dB of noise, compared to 26dB with the Samsung conventional model.

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# Features & Benefits

## Easy Filter Plus

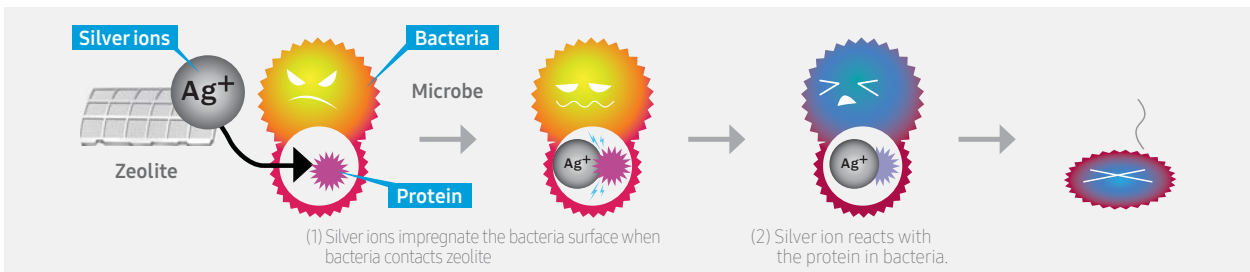
Easy to clean filter.



Easy to detach



Easy to clean



Antibacterial process

Keep your air conditioner working efficiently with less effort. Unlike conventional filters that are often difficult to access, the Easy Filter Plus is located outside, on the top. So it can easily be taken out and cleaned – without having to open a cover or pull hard. It is also made of a dense mesh, so it's very effective at capturing dust, which keeps the Heat Exchanger clean and working efficiently. And its antibacterial coating helps protect you against dangerous airborne contaminants\*.

\* Tested in Korea test lab (FITI). Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use.

# Features & Benefits

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## 4-Way Swing

Control the wind direction Up/Down, Left/Right using remote controller. Control the wind to your desired location.



\* May differ based on the model & region.



## Temperature Display

A numerical and intuitive icon display helps you to read the temperature and functions easily.



# Line-up

## Indoor Unit

| Design     | Image   |   |
|------------|---|---|
| Wind-Free™ |  |  |

| Design     | Type | Capacity (kW) |     |     |     |     |     |     |     |
|------------|------|---------------|-----|-----|-----|-----|-----|-----|-----|
|            |      | 1.5           | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.8 | 8.2 |
| Wind-Free™ | -    | ●             | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|            | EEV  | ●             | ●   | ●   | ●   | ●   | ●   | ●   | ●   |

# Contents

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|  |    |
|--|----|
| 1. Specification                         | 9  |
| 2. Summary Table                         | 15 |
| 3. Capacity Table                        | 16 |
| 4. Dimensional Drawing                   | 22 |
| 5. Center of Gravity                     | 24 |
| 6. Electrical Wiring Diagram             | 25 |
| 7. Sound Data                            | 26 |
| 8. Temperature and Air Flow Distribution | 30 |
| 9. Piping Diagram                        | 40 |
| 10. Installation                         | 41 |

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# 1. Specification

Wind-Free™

| Model Name             |                             |                                    |              | AM015TNADKH/EU    | AM022TNADKH/EU    | AM028TNADKH/EU    |                  |                   |
|------------------------|-----------------------------|------------------------------------|--------------|-------------------|-------------------|-------------------|------------------|-------------------|
| Power Supply           |                             |                                    | Φ, #, V, Hz  | 1,2,220-240,50/60 | 1,2,220-240,50/60 | 1,2,220-240,50/60 |                  |                   |
| Mode                   |                             |                                    | -            | HP/HR             | HP/HR             | HP/HR             |                  |                   |
| Performance            | Capacity                    | Cooling                            | kW           | 1.5               | 2.2               | 2.8               |                  |                   |
|                        |                             |                                    | Btu/h        | 5,100             | 7,500             | 9,600             |                  |                   |
|                        |                             | Heating                            | kW           | 1.7               | 2.5               | 3.2               |                  |                   |
|                        |                             |                                    | Btu/h        | 5,800             | 8,500             | 10,900            |                  |                   |
| Power                  | Power Input                 | Cooling                            | W            | 20.0              | 24.0              | 30.0              |                  |                   |
|                        |                             | Heating                            |              | 20.0              | 24.0              | 30.0              |                  |                   |
|                        | Current Input               | Cooling                            | A            | 0.1               | 0.2               | 0.2               |                  |                   |
|                        |                             | Heating                            |              | 0.1               | 0.2               | 0.2               |                  |                   |
|                        | Current                     | MCA                                | A            | 0.16              | 0.20              | 0.25              |                  |                   |
|                        |                             | MFA                                |              | 15.0              | 15.0              | 15.0              |                  |                   |
| Heat exchanger         | Type                        |                                    |              | -                 | F&T               | F&T               | F&T              |                   |
|                        | Material                    | Fin                                |              |                   | -                 | Al                | Al               | Al                |
|                        |                             | Tube                               |              |                   | -                 | Cu                | Cu               | Cu                |
| Fin Treatment          |                             |                                    |              | -                 | Green Hydrophile  | Green Hydrophile  | Green Hydrophile |                   |
| Fan                    | Type                        |                                    |              |                   | -                 | Crossflow Fan     | Crossflow Fan    | Crossflow Fan     |
|                        | Quantity                    |                                    |              |                   | ea                | 1                 | 1                | 1                 |
|                        | Air Flow Rate               | H/M/L                              | CMM          |                   |                   | 4.9/4.5/4.1       | 5.7/5.0/4.5      | 8.5/7.7/6.9       |
|                        |                             |                                    | l/s          |                   |                   | 81.7/75.0/68.3    | 95.0/83.3/75.0   | 141.7/128.3/115.0 |
| Fan Motor              | Type                        |                                    |              |                   | -                 | BLDC              | BLDC             | BLDC              |
|                        | Output x n                  |                                    |              |                   | W                 | 27 x 1            | 27 x 1           | 27 x 1            |
| Piping Connections     | Liquid Pipe                 |                                    | Type         |                   |                   | Flare connection  | Flare connection | Flare connection  |
|                        |                             |                                    | Φ, mm (inch) |                   |                   | 6.35 (1/4)        | 6.35 (1/4)       | 6.35 (1/4)        |
|                        | Gas Pipe                    |                                    | Type         |                   |                   | Flare connection  | Flare connection | Flare connection  |
|                        |                             |                                    | Φ, mm (inch) |                   |                   | 12.7 (1/2)        | 12.7 (1/2)       | 12.7 (1/2)        |
| Drain Pipe             |                             |                                    |              | Φ,mm              | 16.3, 550         | 16.3, 550         | 16.3, 550        |                   |
| Wiring connections     | Communication               | Minimum                            |              |                   | mm <sup>2</sup>   | 0.75              | 0.75             | 0.75              |
|                        |                             | Remark                             |              |                   | -                 | F1, F2            | F1, F2           | F1, F2            |
| Refrigerant            | Type                        |                                    |              |                   | -                 | R410A             | R410A            | R410A             |
|                        | Electronic Expansion Valve  |                                    |              |                   | -                 | EEV NOT INCLUDED  | EEV NOT INCLUDED | EEV NOT INCLUDED  |
| Sound                  | Sound Pressure              | High/Mid/Low/Windfree              | dB(A)        |                   |                   | 31/30/27/26       | 34/32/30/27      | 34/33/32/26       |
|                        | Sound Power                 | Cooling                            |              |                   |                   | 50                | 51               | 52                |
| Dimensions             | Net Weight                  |                                    |              |                   | kg                | 8.5               | 8.5              | 9.0               |
|                        | Shipping Weight             |                                    |              |                   | kg                | 10.0              | 10.0             | 10.5              |
|                        | Net Dimensions (W×H×D)      |                                    |              |                   | mm                | 820 x 299 x 215   | 820 x 299 x 215  | 820 x 299 x 215   |
|                        | Shipping Dimensions (W×H×D) |                                    |              |                   | mm                | 880 x 290 x 375   | 880 x 290 x 375  | 880 x 290 x 375   |
| Additional Accessories | Drain pump                  | Max. lifting Height / Displacement |              |                   | -                 | -                 | -                | -                 |
|                        |                             |                                    |              |                   | mm / Liter/h      | -                 | -                | -                 |
|                        | EASY FILTER PLUS            |                                    |              |                   | -                 | ○                 | ○                | ○                 |

## NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB / 24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA

# 1. Specification

Wind-Free™

| Model Name             |                             |                                    |                 | AM036TNADKH/EU    | AM045TNADKH/EU    | AM056TNADKH/EU    |                  |
|------------------------|-----------------------------|------------------------------------|-----------------|-------------------|-------------------|-------------------|------------------|
| Power Supply           |                             |                                    | Φ, #, V, Hz     | 1,2,220-240,50/60 | 1,2,220-240,50/60 | 1,2,220-240,50/60 |                  |
| Mode                   |                             |                                    | -               | HP/HR             | HP/HR             | HP/HR             |                  |
| Performance            | Capacity                    | Cooling                            | kW              | 3.6               | 4.5               | 5.6               |                  |
|                        |                             |                                    | Btu/h           | 12,300            | 15,400            | 19,100            |                  |
|                        |                             | Heating                            | kW              | 4.0               | 5.0               | 6.3               |                  |
|                        |                             |                                    | Btu/h           | 13,600            | 17,100            | 21,500            |                  |
| Power                  | Power Input                 | Cooling                            | W               | 37.0              | 40.0              | 52.0              |                  |
|                        |                             | Heating                            |                 | 37.0              | 40.0              | 52.0              |                  |
|                        | Current Input               | Cooling                            | A               | 0.3               | 0.3               | 0.4               |                  |
|                        |                             | Heating                            |                 | 0.3               | 0.3               | 0.4               |                  |
|                        | Current                     | MCA                                | A               | 0.31              | 0.34              | 0.44              |                  |
|                        |                             | MFA                                |                 | 15.0              | 15.0              | 15.0              |                  |
| Heat exchanger         | Type                        |                                    |                 | -                 | F&T               | F&T               |                  |
|                        | Material                    | Fin                                |                 |                   | -                 | Al                | Al               |
|                        |                             | Tube                               |                 |                   | -                 | Cu                | Cu               |
|                        | Fin Treatment               |                                    |                 | -                 | Green Hydrophile  | Green Hydrophile  | Green Hydrophile |
| Fan                    | Type                        |                                    |                 | -                 | Crossflow Fan     | Crossflow Fan     |                  |
|                        | Quantity                    |                                    |                 | ea                | 1                 | 1                 |                  |
|                        | Air Flow Rate               | H/M/L                              | CMM             | 10.3/9.1/8.3      | 12.5/11.4/10.5    | 15.7/13.8/12.0    |                  |
|                        |                             |                                    | l/s             | 171.7/151.7/138.3 | 208.3/190.0/175.0 | 261.7/230.0/200.0 |                  |
| Fan Motor              | Type                        |                                    |                 | -                 | BLDC              | BLDC              |                  |
|                        | Output x n                  |                                    |                 | W                 | 27 x 1            | 27 x 1            |                  |
| Piping Connections     | Liquid Pipe                 | Type                               |                 | Type              | Flare connection  | Flare connection  |                  |
|                        |                             | Φ, mm (inch)                       |                 | Φ, mm (inch)      | 6.35 (1/4)        | 6.35 (1/4)        |                  |
|                        | Gas Pipe                    | Type                               |                 | Type              | Flare connection  | Flare connection  |                  |
|                        |                             | Φ, mm (inch)                       |                 | Φ, mm (inch)      | 12.7 (1/2)        | 12.7 (1/2)        |                  |
| Drain Pipe             | Φ,mm                        |                                    | Φ,mm            | 16.3, 550         | 16.3, 550         |                   |                  |
| Wiring connections     | Communication               | Minimum                            | mm <sup>2</sup> | 0.75              | 0.75              | 0.75              |                  |
|                        |                             | Remark                             | -               | F1, F2            | F1, F2            | F1, F2            |                  |
| Refrigerant            | Type                        |                                    |                 | -                 | R410A             | R410A             |                  |
|                        | Electronic Expansion Valve  |                                    |                 | -                 | EEV NOT INCLUDED  | EEV NOT INCLUDED  |                  |
| Sound                  | Sound Pressure              | High/Mid/Low/Windfree              | dB(A)           | 40/36/34/26       | 37/34/33/29       | 40/37/34/29       |                  |
|                        | Sound Power                 | Cooling                            |                 | 56                | 55                | 58                |                  |
| Dimensions             | Net Weight                  |                                    | kg              | 9.0               | 11.5              | 11.5              |                  |
|                        | Shipping Weight             |                                    | kg              | 10.5              | 13.5              | 13.5              |                  |
|                        | Net Dimensions (W×H×D)      |                                    | mm              | 820 x 299 x 215   | 1,055 x 299 x 215 | 1,055 x 299 x 215 |                  |
|                        | Shipping Dimensions (W×H×D) |                                    | mm              | 880 x 290 x 375   | 1,115 x 290 x 375 | 1,115 x 290 x 375 |                  |
| Additional Accessories | Drain pump                  | Max. lifting Height / Displacement | -               | -                 | -                 | -                 |                  |
|                        |                             |                                    | mm / Liter/h    | -                 | -                 | -                 |                  |
|                        | EASY FILTER PLUS            |                                    | -               | ○                 | ○                 | ○                 |                  |

## NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB / 24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA

# 1. Specification

Wind-Free™

| Model Name             |                             |                                    |                 | AM071TNADKH/EU    | AM082TNADKH/EU    |
|------------------------|-----------------------------|------------------------------------|-----------------|-------------------|-------------------|
| Power Supply           |                             |                                    | Φ, #, V, Hz     | 1,2,220-240,50/60 | 1,2,220-240,50/60 |
| Mode                   |                             |                                    | -               | HP/HR             | HP/HR             |
| Performance            | Capacity                    | Cooling                            | kW              | 6.8               | 8.2               |
|                        |                             |                                    | Btu/h           | 23,200            | 28,000            |
|                        |                             | Heating                            | kW              | 7.0               | 8.5               |
|                        |                             |                                    | Btu/h           | 23,900            | 29,000            |
| Power                  | Power Input                 | Cooling                            | W               | 60.0              | 65.0              |
|                        |                             | Heating                            |                 | 60.0              | 65.0              |
|                        | Current Input               | Cooling                            | A               | 0.4               | 0.4               |
|                        |                             | Heating                            |                 | 0.4               | 0.4               |
|                        | Current                     | MCA                                | A               | 0.50              | 0.54              |
|                        |                             | MFA                                |                 | 15.0              | 15.0              |
| Heat exchanger         | Type                        |                                    | -               | F&T               | F&T               |
|                        | Material                    | Fin                                | -               | Al                | Al                |
|                        |                             | Tube                               | -               | Cu                | Cu                |
|                        | Fin Treatment               |                                    | -               | Green Hydrophile  | Green Hydrophile  |
| Fan                    | Type                        |                                    | -               | Crossflow Fan     | Crossflow Fan     |
|                        | Quantity                    |                                    | ea              | 1                 | 1                 |
|                        | Air Flow Rate               | H/M/L                              | CMM             | 16.8/15.0/13.2    | 17.5/15.6/13.8    |
|                        |                             |                                    | l/s             | 280.0/250.0/220.0 | 291.7/260.0/230.0 |
| Fan Motor              | Type                        |                                    | -               | BLDC              | BLDC              |
|                        | Output x n                  |                                    | W               | 27 x 1            | 27 x 1            |
| Piping Connections     | Liquid Pipe                 |                                    | Type            | Flare connection  | Flare connection  |
|                        |                             |                                    | Φ, mm (inch)    | 9.52 (3/8)        | 9.52 (3/8)        |
|                        | Gas Pipe                    |                                    | Type            | Flare connection  | Flare connection  |
|                        |                             |                                    | Φ, mm (inch)    | 15.88 (5/8)       | 15.88 (5/8)       |
| Drain Pipe             |                             | Φ,mm                               | 16.3, 550       | 16.3, 550         |                   |
| Wiring connections     | Communication               | Minimum                            | mm <sup>2</sup> | 0.75              | 0.75              |
|                        |                             | Remark                             | -               | F1, F2            | F1, F2            |
| Refrigerant            | Type                        |                                    | -               | R410A             | R410A             |
|                        | Electronic Expansion Valve  |                                    | -               | EEV NOT INCLUDED  | EEV NOT INCLUDED  |
| Sound                  | Sound Pressure              | High/Mid/Low/Windfree              | dB(A)           | 43/40/37/29       | 46/45/43/30       |
|                        | Sound Power                 | Cooling                            |                 | 62                | 64                |
| Dimensions             | Net Weight                  |                                    | kg              | 11.5              | 12.5              |
|                        | Shipping Weight             |                                    | kg              | 13.5              | 14.5              |
|                        | Net Dimensions (W×H×D)      |                                    | mm              | 1,055 x 299 x 215 | 1,055 x 299 x 215 |
|                        | Shipping Dimensions (W×H×D) |                                    | mm              | 1,115 x 290 x 375 | 1,115 x 290 x 375 |
| Additional Accessories |                             |                                    | -               | -                 | -                 |
|                        | Drain pump                  | Max. lifting Height / Displacement | mm / Liter/h    | -                 | -                 |
|                        |                             | EASY FILTER PLUS                   |                 | -                 | ○                 |

## NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB / 24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA

※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

# 1. Specification

Wind-Free™

| Model Name             |                             |                                    |                 | AM015TNVDKH/EU    | AM022TNVDKH/EU    | AM028TNVDKH/EU    |
|------------------------|-----------------------------|------------------------------------|-----------------|-------------------|-------------------|-------------------|
| Power Supply           |                             |                                    | Φ, #, V, Hz     | 1,2,220-240,50/60 | 1,2,220-240,50/60 | 1,2,220-240,50/60 |
| Mode                   |                             |                                    | -               | HP/HR             | HP/HR             | HP/HR             |
| Performance            | Capacity                    | Cooling                            | kW              | 1.5               | 2.2               | 2.8               |
|                        |                             |                                    | Btu/h           | 5,100             | 7,500             | 9,600             |
|                        | Heating                     | kW                                 | 1.7             | 2.5               | 3.2               |                   |
|                        |                             | Btu/h                              | 5,800           | 8,500             | 10,900            |                   |
| Power                  | Power Input                 | Cooling                            | W               | 20.0              | 24.0              | 30.0              |
|                        |                             | Heating                            |                 | 20.0              | 24.0              | 30.0              |
|                        | Current Input               | Cooling                            | A               | 0.1               | 0.2               | 0.2               |
|                        |                             | Heating                            |                 | 0.1               | 0.2               | 0.2               |
|                        | Current                     | MCA                                | A               | 0.16              | 0.20              | 0.25              |
|                        |                             | MFA                                |                 | 15.0              | 15.0              | 15.0              |
| Heat exchanger         | Type                        |                                    | -               | F&T               | F&T               | F&T               |
|                        | Material                    | Fin                                | -               | Al                | Al                | Al                |
|                        |                             | Tube                               | -               | Cu                | Cu                | Cu                |
|                        | Fin Treatment               |                                    | -               | Green Hydrophile  | Green Hydrophile  | Green Hydrophile  |
| Fan                    | Type                        |                                    | -               | Crossflow Fan     | Crossflow Fan     | Crossflow Fan     |
|                        | Quantity                    |                                    | ea              | 1                 | 1                 | 1                 |
|                        | Air Flow Rate               | H/M/L                              | CMM             | 4.9/4.5/4.1       | 5.7/5.0/4.5       | 8.5/7.7/6.9       |
| l/s                    |                             |                                    | 81.7/75.0/68.3  | 95.0/83.3/75.0    | 141.7/128.3/115.0 |                   |
| Fan Motor              | Type                        |                                    | -               | BLDC              | BLDC              | BLDC              |
|                        | Output x n                  |                                    | W               | 27 x 1            | 27 x 1            | 27 x 1            |
| Piping Connections     | Liquid Pipe                 |                                    | Type            | Flare connection  | Flare connection  | Flare connection  |
|                        |                             |                                    | Φ, mm (inch)    | 6.35 (1/4)        | 6.35 (1/4)        | 6.35 (1/4)        |
|                        | Gas Pipe                    |                                    | Type            | Flare connection  | Flare connection  | Flare connection  |
|                        |                             |                                    | Φ, mm (inch)    | 12.7 (1/2)        | 12.7 (1/2)        | 12.7 (1/2)        |
| Drain Pipe             |                             | Φ,mm                               | 16.3, 550       | 16.3, 550         | 16.3, 550         |                   |
| Wiring connections     | Communication               | Minimum                            | mm <sup>2</sup> | 0.75              | 0.75              | 0.75              |
|                        |                             | Remark                             | -               | F1, F2            | F1, F2            | F1, F2            |
| Refrigerant            | Type                        |                                    | -               | R410A             | R410A             | R410A             |
|                        | Electronic Expansion Valve  |                                    | -               | EEV INCLUDED      | EEV INCLUDED      | EEV INCLUDED      |
| Sound                  | Sound Pressure              | High/Mid/Low/Windfree              | dB(A)           | 31/30/27/26       | 34/32/30/27       | 34/33/32/26       |
|                        | Sound Power                 | Cooling                            |                 | 50                | 51                | 52                |
| Dimensions             | Net Weight                  |                                    | kg              | 9.0               | 9.0               | 9.5               |
|                        | Shipping Weight             |                                    | kg              | 10.5              | 10.5              | 11.0              |
|                        | Net Dimensions (W×H×D)      |                                    | mm              | 820 x 299 x 215   | 820 x 299 x 215   | 820 x 299 x 215   |
|                        | Shipping Dimensions (W×H×D) |                                    | mm              | 880 x 290 x 375   | 880 x 290 x 375   | 880 x 290 x 375   |
| Additional Accessories |                             |                                    | -               | -                 | -                 | -                 |
|                        | Drain pump                  | Max. lifting Height / Displacement | mm / Liter/h    | -                 | -                 | -                 |
|                        |                             | EASY FILTER PLUS                   |                 | -                 | ○                 | ○                 |

## NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB / 24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA

# 1. Specification

Wind-Free™

| Model Name             |                             |                                    |                 | AM036TNVDKH/EU    | AM045TNVDKH/EU    | AM056TNVDKH/EU    |    |
|------------------------|-----------------------------|------------------------------------|-----------------|-------------------|-------------------|-------------------|----|
| Power Supply           |                             |                                    | Φ, #, V, Hz     | 1,2,220-240,50/60 | 1,2,220-240,50/60 | 1,2,220-240,50/60 |    |
| Mode                   |                             |                                    | -               | HP/HR             | HP/HR             | HP/HR             |    |
| Performance            | Capacity                    | Cooling                            | kW              | 3.6               | 4.5               | 5.6               |    |
|                        |                             |                                    | Btu/h           | 12,300            | 15,400            | 19,100            |    |
|                        | Heating                     | kW                                 | 4.0             | 5.0               | 6.3               |                   |    |
|                        |                             | Btu/h                              | 13,600          | 17,100            | 21,500            |                   |    |
| Power                  | Power Input                 | Cooling                            | W               | 37.0              | 40.0              | 52.0              |    |
|                        |                             | Heating                            |                 | 37.0              | 40.0              | 52.0              |    |
|                        | Current Input               | Cooling                            | A               | 0.3               | 0.3               | 0.4               |    |
|                        |                             | Heating                            |                 | 0.3               | 0.3               | 0.4               |    |
|                        | Current                     | MCA                                | A               | 0.31              | 0.34              | 0.44              |    |
|                        |                             | MFA                                |                 | 15.0              | 15.0              | 15.0              |    |
| Heat exchanger         | Type                        |                                    |                 | -                 | F&T               | F&T               |    |
|                        | Material                    | Fin                                |                 |                   | -                 | Al                | Al |
|                        |                             | Tube                               |                 |                   | -                 | Cu                | Cu |
| Fin Treatment          |                             |                                    |                 | -                 | Green Hydrophile  | Green Hydrophile  |    |
| Fan                    | Type                        |                                    |                 | -                 | Crossflow Fan     | Crossflow Fan     |    |
|                        | Quantity                    |                                    |                 | ea                | 1                 | 1                 |    |
|                        | Air Flow Rate               | H/M/L                              | CMM             | 10.3/9.1/8.3      | 12.5/11.4/10.5    | 15.7/13.8/12.0    |    |
|                        |                             |                                    | l/s             | 171.7/151.7/138.3 | 208.3/190.0/175.0 | 261.7/230.0/200.0 |    |
| Fan Motor              | Type                        |                                    |                 | -                 | BLDC              | BLDC              |    |
|                        | Output x n                  |                                    |                 | W                 | 27 x 1            | 27 x 1            |    |
| Piping Connections     | Liquid Pipe                 | Type                               |                 | Flare connection  | Flare connection  | Flare connection  |    |
|                        |                             | Φ, mm (inch)                       |                 | 6.35 (1/4)        | 6.35 (1/4)        | 6.35 (1/4)        |    |
|                        | Gas Pipe                    | Type                               |                 | Flare connection  | Flare connection  | Flare connection  |    |
|                        |                             | Φ, mm (inch)                       |                 | 12.7 (1/2)        | 12.7 (1/2)        | 12.7 (1/2)        |    |
| Drain Pipe             | Φ,mm                        |                                    | 16.3, 550       | 16.3, 550         | 16.3, 550         |                   |    |
| Wiring connections     | Communication               | Minimum                            | mm <sup>2</sup> | 0.75              | 0.75              | 0.75              |    |
|                        |                             | Remark                             | -               | F1, F2            | F1, F2            | F1, F2            |    |
| Refrigerant            | Type                        |                                    |                 | -                 | R410A             | R410A             |    |
|                        | Electronic Expansion Valve  |                                    |                 | -                 | EEV INCLUDED      | EEV INCLUDED      |    |
| Sound                  | Sound Pressure              | High/Mid/Low/Windfree              | dB(A)           | 40/36/34/26       | 37/34/33/29       | 40/37/34/29       |    |
|                        | Sound Power                 | Cooling                            |                 | 56                | 55                | 58                |    |
| Dimensions             | Net Weight                  |                                    | kg              | 9.5               | 12.0              | 12.0              |    |
|                        | Shipping Weight             |                                    | kg              | 11.0              | 14.0              | 14.0              |    |
|                        | Net Dimensions (W×H×D)      |                                    | mm              | 820 x 299 x 215   | 1,055 x 299 x 215 | 1,055 x 299 x 215 |    |
|                        | Shipping Dimensions (W×H×D) |                                    | mm              | 880 x 290 x 375   | 1,115 x 290 x 375 | 1,115 x 290 x 375 |    |
| Additional Accessories | Drain pump                  | Max. lifting Height / Displacement |                 | mm / Liter/h      | -                 | -                 |    |
|                        |                             |                                    |                 |                   | -                 | -                 |    |
|                        | EASY FILTER PLUS            |                                    |                 |                   |                   | ○                 | ○  |

## NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB / 24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA

※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

# 1. Specification

Wind-Free™

| Model Name             |                             |                                    |                 | AM071TNVDKH/EU    | AM082TNVDKH/EU    |
|------------------------|-----------------------------|------------------------------------|-----------------|-------------------|-------------------|
| Power Supply           |                             |                                    | Φ, #, V, Hz     | 1,2,220-240,50/60 | 1,2,220-240,50/60 |
| Mode                   |                             |                                    | -               | HP/HR             | HP/HR             |
| Performance            | Capacity                    | Cooling                            | kW              | 6.8               | 8.2               |
|                        |                             |                                    | Btu/h           | 23,200            | 28,000            |
|                        |                             | Heating                            | kW              | 7.0               | 8.5               |
|                        |                             |                                    | Btu/h           | 23,900            | 29,000            |
| Power                  | Power Input                 | Cooling                            | W               | 60.0              | 65.0              |
|                        |                             | Heating                            |                 | 60.0              | 65.0              |
|                        | Current Input               | Cooling                            | A               | 0.4               | 0.4               |
|                        |                             | Heating                            |                 | 0.4               | 0.4               |
|                        | Current                     | MCA                                | A               | 0.50              | 0.54              |
|                        |                             | MFA                                |                 | 15.0              | 15.0              |
| Heat exchanger         | Type                        |                                    | -               | F&T               | F&T               |
|                        | Material                    | Fin                                | -               | Al                | Al                |
|                        |                             | Tube                               | -               | Cu                | Cu                |
|                        | Fin Treatment               |                                    | -               | Green Hydrophile  | Green Hydrophile  |
| Fan                    | Type                        |                                    | -               | Crossflow Fan     | Crossflow Fan     |
|                        | Quantity                    |                                    | ea              | 1                 | 1                 |
|                        | Air Flow Rate               | H/M/L                              | CMM             | 16.8/15.0/13.2    | 17.5/15.6/13.8    |
|                        |                             |                                    | l/s             | 280.0/250.0/220.0 | 291.7/260.0/230.0 |
| Fan Motor              | Type                        |                                    | -               | BLDC              | BLDC              |
|                        | Output x n                  |                                    | W               | 27 x 1            | 27 x 1            |
| Piping Connections     | Liquid Pipe                 |                                    | Type            | Flare connection  | Flare connection  |
|                        |                             |                                    | Φ, mm (inch)    | 9.52 (3/8)        | 9.52 (3/8)        |
|                        | Gas Pipe                    |                                    | Type            | Flare connection  | Flare connection  |
|                        |                             |                                    | Φ, mm (inch)    | 15.88 (5/8)       | 15.88 (5/8)       |
| Drain Pipe             |                             | Φ,mm                               | 16.3, 550       | 16.3, 550         |                   |
| Wiring connections     | Communication               | Minimum                            | mm <sup>2</sup> | 0.75              | 0.75              |
|                        |                             | Remark                             | -               | F1, F2            | F1, F2            |
| Refrigerant            | Type                        |                                    | -               | R410A             | R410A             |
|                        | Electronic Expansion Valve  |                                    | -               | EEV INCLUDED      | EEV INCLUDED      |
| Sound                  | Sound Pressure              | High/Mid/Low/Windfree              | dB(A)           | 43/40/37/29       | 46/45/43/30       |
|                        | Sound Power                 | Cooling                            |                 | 62                | 64                |
| Dimensions             | Net Weight                  |                                    | kg              | 12.0              | 13.0              |
|                        | Shipping Weight             |                                    | kg              | 14.0              | 15.0              |
|                        | Net Dimensions (W×H×D)      |                                    | mm              | 1,055 x 299 x 215 | 1,055 x 299 x 215 |
|                        | Shipping Dimensions (W×H×D) |                                    | mm              | 1,115 x 290 x 375 | 1,115 x 290 x 375 |
| Additional Accessories | Drain pump                  | Max. lifting Height / Displacement | -               | -                 | -                 |
|                        |                             |                                    | mm / Liter/h    | -                 | -                 |
|                        | EASY FILTER PLUS            |                                    | -               | ○                 | ○                 |

## NOTE

- Mode : HP(Heat Pump), HR(Heat Recovery)
- Nominal Cooling : Indoor temperature 27°CDB / 19°CWB, Outdoor temperature 35°CDB / 24°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Nominal Heating : Indoor temperature 20°CDB / 15°CWB, Outdoor temperature 7°CDB / 6°CWB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R410A which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA

## 2. Summary Table

Wind-Free™

### Performance Characteristics

| Model Code     | Net Weight (kg) | Fan Speed | Nominal Capacity |          |         | Airflow (CMM) | Sound Pressure | Sound Power |
|----------------|-----------------|-----------|------------------|----------|---------|---------------|----------------|-------------|
|                |                 |           | Cooling (kW)     | Sensible | Heating |               |                |             |
| AM015TNADKH/EU | 8.5             | High      | 1.5              | 1.0      | 1.7     | 4.9           | 31             | 50          |
| AM015TNVDKH/EU | 9.0             | Mid       | 1.2              | 0.9      | 1.6     | 4.5           | 30             | -           |
|                |                 | Low       | 1.0              | 0.8      | 1.5     | 4.1           | 27             | -           |
| AM022TNADKH/EU | 8.5             | High      | 2.2              | 1.5      | 2.5     | 5.7           | 34             | 51          |
| AM022TNVDKH/EU | 9.0             | Mid       | 1.6              | 1.4      | 2.3     | 5.0           | 32             | -           |
|                |                 | Low       | 1.3              | 1.2      | 2.2     | 4.5           | 30             | -           |
| AM028TNADKH/EU | 9.0             | High      | 2.8              | 1.9      | 3.2     | 8.5           | 34             | 52          |
| AM028TNVDKH/EU | 9.5             | Mid       | 2.1              | 1.7      | 3.0     | 7.7           | 33             | -           |
|                |                 | Low       | 1.7              | 1.5      | 2.8     | 6.9           | 32             | -           |
| AM036TNADKH/EU | 9.0             | High      | 3.6              | 2.4      | 4.0     | 10.3          | 40             | 56          |
| AM036TNVDKH/EU | 9.5             | Mid       | 2.6              | 2.2      | 3.8     | 9.1           | 36             | -           |
|                |                 | Low       | 2.1              | 1.8      | 3.5     | 8.3           | 34             | -           |
| AM045TNADKH/EU | 11.5            | High      | 4.5              | 3.1      | 5.0     | 12.5          | 37             | 55          |
| AM045TNVDKH/EU | 12.0            | Mid       | 3.2              | 2.7      | 4.7     | 11.4          | 34             | -           |
|                |                 | Low       | 2.6              | 2.1      | 4.5     | 10.5          | 33             | -           |
| AM056TNADKH/EU | 11.5            | High      | 5.6              | 3.8      | 6.3     | 15.7          | 40             | 58          |
| AM056TNVDKH/EU | 12.0            | Mid       | 4.0              | 3.3      | 6.0     | 13.8          | 37             | -           |
|                |                 | Low       | 3.1              | 2.7      | 5.6     | 12.0          | 34             | -           |
| AM071TNADKH/EU | 11.5            | High      | 6.8              | 4.6      | 7.0     | 16.8          | 43             | 62          |
| AM071TNVDKH/EU | 12.0            | Mid       | 4.7              | 4.0      | 6.6     | 15.0          | 40             | -           |
|                |                 | Low       | 3.7              | 2.9      | 6.3     | 13.2          | 37             | -           |
| AM082TNADKH/EU | 12.5            | High      | 8.2              | 5.6      | 8.5     | 17.5          | 46             | 64          |
| AM082TNVDKH/EU | 13.0            | Mid       | 6.4              | 5.2      | 7.9     | 15.6          | 45             | -           |
|                |                 | Low       | 5.3              | 4.4      | 7.5     | 13.8          | 43             | -           |

### Electrical Characteristics

| Model Code     | Power Supply (Ø, #, V, Hz) | Power Input (W) (C / H) | Current Input (A) (C / H) | MCA (A) | MFA (A) | FLA (A) |
|----------------|----------------------------|-------------------------|---------------------------|---------|---------|---------|
| AM015TN*DKH/EU | 1,2,220-240,50/60          | 20 / 20                 | 0.13 / 0.13               | 0.16    | 15      | 0.13    |
| AM022TN*DKH/EU | 1,2,220-240,50/60          | 24 / 24                 | 0.16 / 0.16               | 0.20    | 15      | 0.16    |
| AM028TN*DKH/EU | 1,2,220-240,50/60          | 30 / 30                 | 0.20 / 0.20               | 0.25    | 15      | 0.20    |
| AM036TN*DKH/EU | 1,2,220-240,50/60          | 37 / 37                 | 0.25 / 0.25               | 0.31    | 15      | 0.25    |
| AM045TN*DKH/EU | 1,2,220-240,50/60          | 40 / 40                 | 0.27 / 0.27               | 0.34    | 15      | 0.27    |
| AM056TN*DKH/EU | 1,2,220-240,50/60          | 52 / 52                 | 0.35 / 0.35               | 0.44    | 15      | 0.35    |
| AM071TN*DKH/EU | 1,2,220-240,50/60          | 60 / 60                 | 0.40 / 0.40               | 0.50    | 15      | 0.40    |
| AM082TN*DKH/EU | 1,2,220-240,50/60          | 65 / 65                 | 0.43 / 0.43               | 0.54    | 15      | 0.43    |

#### NOTE

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

# 3. Capacity Table

Wind-Free™

## Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

| Capacity Index | Outdoor Air Temp. (°C, DB) | Indoor temperature |     |            |     |            |     |            |     |            |     |            |     |            |     |
|----------------|----------------------------|--------------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|
|                |                            | 20(°C, DB)         |     | 23(°C, DB) |     | 26(°C, DB) |     | 27(°C, DB) |     | 28(°C, DB) |     | 30(°C, DB) |     | 32(°C, DB) |     |
|                |                            | 14(°C, WB)         |     | 16(°C, WB) |     | 18(°C, WB) |     | 19(°C, WB) |     | 20(°C, WB) |     | 22(°C, WB) |     | 24(°C, WB) |     |
|                |                            | TC                 | SHC | TC         | SHC | TC         | SHC | TC         | SHC | TC         | SHC | TC         | SHC | TC         | SHC |
| 015            | 10                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.7        | 1.1 | 1.8        | 1.0 |
|                | 12                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.7        | 1.1 | 1.8        | 1.0 |
|                | 14                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.7        | 1.1 | 1.8        | 1.0 |
|                | 16                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 18                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 20                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 21                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 23                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 25                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 27                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 29                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 31                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 33                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 35                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 37                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.8        | 1.0 |
|                | 39                         | 1.0                | 0.9 | 1.2        | 1.0 | 1.4        | 1.0 | 1.5        | 1.0 | 1.6        | 1.0 | 1.6        | 1.1 | 1.7        | 0.9 |
| 42             | 1.0                        | 0.9                | 1.2 | 1.0        | 1.4 | 1.0        | 1.5 | 1.0        | 1.6 | 1.0        | 1.6 | 1.1        | 1.7 | 0.9        |     |
| 44             | 1.0                        | 0.9                | 1.2 | 1.0        | 1.4 | 1.0        | 1.4 | 1.0        | 1.5 | 1.0        | 1.5 | 1.0        | 1.6 | 0.8        |     |
| 46             | 1.0                        | 0.9                | 1.2 | 1.0        | 1.3 | 1.0        | 1.4 | 0.9        | 1.5 | 0.9        | 1.5 | 1.0        | 1.6 | 0.8        |     |
| 48             | 1.0                        | 0.9                | 1.2 | 1.0        | 1.3 | 0.9        | 1.3 | 0.9        | 1.5 | 0.9        | 1.4 | 1.0        | 1.5 | 0.8        |     |
| 022            | 10                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.5        | 1.6 | 2.6        | 1.4 |
|                | 12                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.5        | 1.6 | 2.6        | 1.4 |
|                | 14                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.5        | 1.6 | 2.6        | 1.4 |
|                | 16                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 18                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 20                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 21                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 23                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 25                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 27                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 29                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 31                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 33                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 35                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 37                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.6        | 1.4 |
|                | 39                         | 1.5                | 1.3 | 1.8        | 1.5 | 2.1        | 1.5 | 2.2        | 1.5 | 2.3        | 1.5 | 2.4        | 1.5 | 2.5        | 1.3 |
| 42             | 1.5                        | 1.3                | 1.8 | 1.5        | 2.1 | 1.5        | 2.2 | 1.5        | 2.3 | 1.5        | 2.4 | 1.5        | 2.4 | 1.3        |     |
| 44             | 1.5                        | 1.3                | 1.8 | 1.5        | 2.0 | 1.4        | 2.1 | 1.4        | 2.2 | 1.4        | 2.3 | 1.4        | 2.4 | 1.2        |     |
| 46             | 1.5                        | 1.3                | 1.8 | 1.5        | 2.0 | 1.4        | 2.0 | 1.4        | 2.1 | 1.4        | 2.2 | 1.4        | 2.3 | 1.2        |     |
| 48             | 1.5                        | 1.3                | 1.8 | 1.5        | 2.0 | 1.4        | 2.0 | 1.3        | 2.1 | 1.4        | 2.1 | 1.3        | 2.2 | 1.1        |     |
| 028            | 10                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.4        | 1.9 |
|                | 12                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 14                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 16                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 18                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 20                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 21                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 23                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 25                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 27                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 29                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 31                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 33                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 35                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 37                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.1        | 1.9 | 3.3        | 1.8 |
|                | 39                         | 1.9                | 1.6 | 2.3        | 1.8 | 2.6        | 2.0 | 2.8        | 1.9 | 2.9        | 1.9 | 3.0        | 1.8 | 3.2        | 1.7 |
| 42             | 1.9                        | 1.6                | 2.3 | 1.8        | 2.6 | 2.0        | 2.8 | 1.9        | 2.9 | 1.9        | 2.9 | 1.8        | 3.1 | 1.7        |     |
| 44             | 1.9                        | 1.6                | 2.3 | 1.8        | 2.5 | 1.9        | 2.7 | 1.8        | 2.8 | 1.8        | 2.8 | 1.7        | 3.0 | 1.6        |     |
| 46             | 1.9                        | 1.6                | 2.3 | 1.8        | 2.5 | 1.9        | 2.6 | 1.8        | 2.7 | 1.8        | 2.7 | 1.6        | 2.9 | 1.6        |     |
| 48             | 1.9                        | 1.6                | 2.2 | 1.8        | 2.4 | 1.9        | 2.5 | 1.7        | 2.6 | 1.7        | 2.7 | 1.6        | 2.8 | 1.5        |     |



# 3. Capacity Table

| Capacity Index | Outdoor Air Temp. (°C,DB) | Indoor temperature |     |           |     |           |     |           |     |           |     |           |     |           |     |
|----------------|---------------------------|--------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|                |                           | 20(°C,DB)          |     | 23(°C,DB) |     | 26(°C,DB) |     | 27(°C,DB) |     | 28(°C,DB) |     | 30(°C,DB) |     | 32(°C,DB) |     |
|                |                           | 14(°C,WB)          |     | 16(°C,WB) |     | 18(°C,WB) |     | 19(°C,WB) |     | 20(°C,WB) |     | 22(°C,WB) |     | 24(°C,WB) |     |
|                |                           | TC                 | SHC | TC        | SHC | TC        | SHC | TC        | SHC | TC        | SHC | TC        | SHC | TC        | SHC |
| 036            | 10                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.3       | 2.3 |
|                | 12                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.3       | 2.3 |
|                | 14                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.3       | 2.3 |
|                | 16                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.3       | 2.3 |
|                | 18                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.3       | 2.3 |
|                | 20                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 21                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 23                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 25                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 27                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 29                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 31                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 33                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 35                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 4.0       | 2.4 | 4.2       | 2.3 |
|                | 37                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 3.9       | 2.3 | 4.2       | 2.3 |
|                | 39                        | 2.5                | 2.1 | 2.9       | 2.2 | 3.4       | 2.3 | 3.6       | 2.4 | 3.7       | 2.4 | 3.9       | 2.3 | 4.1       | 2.2 |
| 42             | 2.5                       | 2.1                | 2.9 | 2.2       | 3.4 | 2.3       | 3.6 | 2.4       | 3.7 | 2.4       | 3.8 | 2.3       | 4.0 | 2.1       |     |
| 44             | 2.5                       | 2.1                | 2.9 | 2.2       | 3.3 | 2.2       | 3.4 | 2.3       | 3.6 | 2.3       | 3.7 | 2.2       | 3.9 | 2.1       |     |
| 46             | 2.5                       | 2.1                | 2.9 | 2.2       | 3.2 | 2.2       | 3.3 | 2.2       | 3.4 | 2.2       | 3.6 | 2.1       | 3.8 | 2.0       |     |
| 48             | 2.5                       | 2.1                | 2.8 | 2.2       | 3.2 | 2.1       | 3.2 | 2.2       | 3.4 | 2.2       | 3.5 | 2.0       | 3.6 | 1.9       |     |
| 045            | 10                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.1       | 3.2 | 5.4       | 2.9 |
|                | 12                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.1       | 3.2 | 5.4       | 2.9 |
|                | 14                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.4       | 2.9 |
|                | 16                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 18                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 20                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 21                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 23                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 25                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 27                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 29                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 31                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 33                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 35                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 5.0       | 3.1 | 5.3       | 2.9 |
|                | 37                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 4.9       | 3.0 | 5.2       | 2.8 |
|                | 39                        | 3.1                | 2.4 | 3.7       | 2.8 | 4.3       | 3.0 | 4.5       | 3.1 | 4.7       | 3.1 | 4.9       | 3.0 | 5.1       | 2.7 |
| 42             | 3.1                       | 2.4                | 3.7 | 2.8       | 4.2 | 3.0       | 4.4 | 3.1       | 4.6 | 3.1       | 4.8 | 3.0       | 5.0 | 2.6       |     |
| 44             | 3.1                       | 2.4                | 3.7 | 2.8       | 4.1 | 2.9       | 4.3 | 3.0       | 4.5 | 3.0       | 4.6 | 2.8       | 4.8 | 2.5       |     |
| 46             | 3.1                       | 2.4                | 3.7 | 2.7       | 4.0 | 2.9       | 4.2 | 2.9       | 4.3 | 2.9       | 4.5 | 2.8       | 4.7 | 2.5       |     |
| 48             | 3.1                       | 2.4                | 3.6 | 2.7       | 4.0 | 2.8       | 4.0 | 2.8       | 4.3 | 2.8       | 4.3 | 2.7       | 4.5 | 2.4       |     |
| 056            | 10                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.3       | 3.9 | 6.7       | 3.6 |
|                | 12                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.3       | 3.9 | 6.7       | 3.6 |
|                | 14                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.7       | 3.6 |
|                | 16                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 18                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 20                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 21                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 23                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 25                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 27                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 29                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 31                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 33                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 35                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.2       | 3.8 | 6.6       | 3.5 |
|                | 37                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.1       | 3.7 | 6.5       | 3.4 |
|                | 39                        | 3.9                | 3.0 | 4.6       | 3.4 | 5.3       | 3.7 | 5.6       | 3.8 | 5.8       | 3.8 | 6.1       | 3.7 | 6.4       | 3.3 |
| 42             | 3.9                       | 3.0                | 4.6 | 3.4       | 5.3 | 3.7       | 5.5 | 3.7       | 5.7 | 3.8       | 6.0 | 3.6       | 6.2 | 3.2       |     |
| 44             | 3.9                       | 3.0                | 4.6 | 3.4       | 5.1 | 3.6       | 5.3 | 3.6       | 5.6 | 3.6       | 5.8 | 3.5       | 6.0 | 3.1       |     |
| 46             | 3.9                       | 3.0                | 4.6 | 3.4       | 5.0 | 3.5       | 5.2 | 3.5       | 5.4 | 3.5       | 5.6 | 3.4       | 5.9 | 3.0       |     |
| 48             | 3.9                       | 3.0                | 4.5 | 3.3       | 5.0 | 3.5       | 5.0 | 3.4       | 5.3 | 3.5       | 5.4 | 3.3       | 5.7 | 2.9       |     |

# 3. Capacity Table

| Capacity Index | Outdoor Air Temp. (°C,DB) | Indoor temperature |     |           |     |           |     |           |     |           |     |           |     |           |     |
|----------------|---------------------------|--------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|                |                           | 20(°C,DB)          |     | 23(°C,DB) |     | 26(°C,DB) |     | 27(°C,DB) |     | 28(°C,DB) |     | 30(°C,DB) |     | 32(°C,DB) |     |
|                |                           | 14(°C,WB)          |     | 16(°C,WB) |     | 18(°C,WB) |     | 19(°C,WB) |     | 20(°C,WB) |     | 22(°C,WB) |     | 24(°C,WB) |     |
|                |                           | TC                 | SHC | TC        | SHC | TC        | SHC | TC        | SHC | TC        | SHC | TC        | SHC | TC        | SHC |
| 071            | 10                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.7       | 5.1 | 8.2       | 4.6 |
|                | 12                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.7       | 5.1 | 8.2       | 4.6 |
|                | 14                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.7       | 5.1 | 8.2       | 4.6 |
|                | 16                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 18                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 20                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 21                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 23                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 25                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 27                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 29                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 31                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 33                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 35                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 37                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 8.2       | 4.6 |
|                | 39                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.8       | 4.6 | 7.3       | 4.6 | 7.3       | 5.1 | 7.7       | 4.1 |
|                | 42                        | 4.5                | 4.1 | 5.4       | 4.6 | 6.3       | 4.6 | 6.7       | 4.5 | 7.2       | 4.5 | 7.1       | 5.0 | 7.5       | 4.0 |
| 44             | 4.5                       | 4.1                | 5.4 | 4.6       | 6.1 | 4.4       | 6.5 | 4.4       | 7.0 | 4.4       | 6.8 | 4.8       | 7.3 | 3.9       |     |
| 46             | 4.5                       | 4.1                | 5.4 | 4.6       | 6.0 | 4.4       | 6.3 | 4.3       | 6.8 | 4.3       | 6.6 | 4.6       | 7.1 | 3.8       |     |
| 48             | 4.5                       | 4.1                | 5.3 | 4.5       | 5.9 | 4.3       | 6.1 | 4.1       | 6.6 | 4.2       | 6.4 | 4.5       | 6.8 | 3.7       |     |
| 082            | 10                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.2       | 5.7 | 9.8       | 5.3 |
|                | 12                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.2       | 5.7 | 9.8       | 5.3 |
|                | 14                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.8       | 5.3 |
|                | 16                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 18                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 20                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 21                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 23                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 25                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 27                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 29                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 31                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 33                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 35                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 9.1       | 5.6 | 9.7       | 5.1 |
|                | 37                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 8.9       | 5.4 | 9.5       | 5.0 |
|                | 39                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.8       | 5.4 | 8.2       | 5.6 | 8.5       | 5.6 | 8.9       | 5.4 | 9.4       | 4.8 |
|                | 42                        | 5.7                | 4.4 | 6.7       | 5.0 | 7.7       | 5.4 | 8.1       | 5.5 | 8.4       | 5.5 | 8.7       | 5.3 | 9.2       | 4.7 |
| 44             | 5.7                       | 4.4                | 6.7 | 5.0       | 7.5 | 5.2       | 7.8 | 5.3       | 8.2 | 5.4       | 8.4 | 5.1       | 8.8 | 4.5       |     |
| 46             | 5.7                       | 4.4                | 6.6 | 5.0       | 7.4 | 5.1       | 7.6 | 5.2       | 7.9 | 5.2       | 8.1 | 4.9       | 8.6 | 4.4       |     |
| 48             | 5.6                       | 4.3                | 6.6 | 4.9       | 7.3 | 5.0       | 7.4 | 5.0       | 7.8 | 5.1       | 7.9 | 4.8       | 8.3 | 4.2       |     |

 **NOTE**

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

# 3. Capacity Table

Wind-Free™

## Heating

TC: Total Capacity

| Capacity Index | Outdoor Air Temp. (°C) |       | Indoor temperature (°C,DB) |           |           |           |           |
|----------------|------------------------|-------|----------------------------|-----------|-----------|-----------|-----------|
|                |                        |       | 16(°C,DB)                  | 18(°C,DB) | 20(°C,DB) | 22(°C,DB) | 24(°C,DB) |
|                | DB                     | WB    | TC                         | TC        | TC        | TC        | TC        |
| 015            | -19.8                  | -20.0 | 1.0                        | 1.0       | 1.0       | 1.0       | 1.0       |
|                | -18.8                  | -19.0 | 1.0                        | 1.0       | 1.0       | 1.0       | 1.0       |
|                | -16.7                  | -17.0 | 1.1                        | 1.1       | 1.1       | 1.1       | 1.1       |
|                | -14.7                  | -15.0 | 1.2                        | 1.1       | 1.1       | 1.1       | 1.1       |
|                | -12.6                  | -13.0 | 1.2                        | 1.2       | 1.2       | 1.2       | 1.2       |
|                | -10.5                  | -11.0 | 1.4                        | 1.4       | 1.3       | 1.3       | 1.3       |
|                | -9.5                   | -10.0 | 1.4                        | 1.4       | 1.3       | 1.3       | 1.3       |
|                | -8.5                   | -9.1  | 1.5                        | 1.5       | 1.4       | 1.4       | 1.4       |
|                | -7.0                   | -7.6  | 1.6                        | 1.5       | 1.5       | 1.4       | 1.4       |
|                | -5.0                   | -5.6  | 1.6                        | 1.6       | 1.6       | 1.5       | 1.5       |
|                | -3.0                   | -3.7  | 1.7                        | 1.7       | 1.6       | 1.6       | 1.5       |
|                | 0.0                    | -0.7  | 1.8                        | 1.7       | 1.7       | 1.6       | 1.5       |
|                | 3.0                    | 2.2   | 1.8                        | 1.8       | 1.7       | 1.6       | 1.5       |
|                | 5.0                    | 4.1   | 1.9                        | 1.8       | 1.7       | 1.6       | 1.5       |
|                | 7.0                    | 6.0   | 1.9                        | 1.8       | 1.7       | 1.6       | 1.5       |
| 022            | -19.8                  | -20.0 | 1.5                        | 1.5       | 1.5       | 1.5       | 1.5       |
|                | -18.8                  | -19.0 | 1.5                        | 1.5       | 1.5       | 1.5       | 1.5       |
|                | -16.7                  | -17.0 | 1.6                        | 1.6       | 1.6       | 1.6       | 1.6       |
|                | -14.7                  | -15.0 | 1.7                        | 1.6       | 1.6       | 1.6       | 1.6       |
|                | -12.6                  | -13.0 | 1.8                        | 1.8       | 1.8       | 1.8       | 1.7       |
|                | -10.5                  | -11.0 | 2.0                        | 2.0       | 1.9       | 1.9       | 1.9       |
|                | -9.5                   | -10.0 | 2.1                        | 2.0       | 2.0       | 1.9       | 1.9       |
|                | -8.5                   | -9.1  | 2.2                        | 2.1       | 2.1       | 2.0       | 2.0       |
|                | -7.0                   | -7.6  | 2.3                        | 2.2       | 2.2       | 2.0       | 2.0       |
|                | -5.0                   | -5.6  | 2.4                        | 2.3       | 2.3       | 2.2       | 2.2       |
|                | -3.0                   | -3.7  | 2.5                        | 2.5       | 2.4       | 2.3       | 2.2       |
|                | 0.0                    | -0.7  | 2.6                        | 2.5       | 2.5       | 2.3       | 2.2       |
|                | 3.0                    | 2.2   | 2.7                        | 2.6       | 2.5       | 2.3       | 2.2       |
|                | 5.0                    | 4.1   | 2.8                        | 2.7       | 2.5       | 2.3       | 2.2       |
|                | 7.0                    | 6.0   | 2.8                        | 2.7       | 2.5       | 2.3       | 2.2       |
| 028            | -19.8                  | -20.0 | 1.9                        | 1.9       | 1.9       | 1.9       | 1.9       |
|                | -18.8                  | -19.0 | 1.9                        | 1.9       | 1.9       | 1.9       | 1.9       |
|                | -16.7                  | -17.0 | 2.0                        | 2.0       | 2.0       | 2.0       | 1.9       |
|                | -14.7                  | -15.0 | 2.1                        | 2.1       | 2.0       | 2.0       | 1.9       |
|                | -12.6                  | -13.0 | 2.2                        | 2.2       | 2.2       | 2.1       | 2.1       |
|                | -10.5                  | -11.0 | 2.3                        | 2.3       | 2.3       | 2.3       | 2.2       |
|                | -9.5                   | -10.0 | 2.3                        | 2.3       | 2.3       | 2.3       | 2.2       |
|                | -8.5                   | -9.1  | 2.4                        | 2.4       | 2.4       | 2.4       | 2.3       |
|                | -7.0                   | -7.6  | 2.5                        | 2.4       | 2.4       | 2.4       | 2.3       |
|                | -5.0                   | -5.6  | 2.6                        | 2.6       | 2.5       | 2.5       | 2.4       |
|                | -3.0                   | -3.7  | 2.8                        | 2.7       | 2.7       | 2.6       | 2.5       |
|                | 0.0                    | -0.7  | 2.9                        | 2.8       | 2.8       | 2.7       | 2.6       |
|                | 3.0                    | 2.2   | 3.0                        | 3.0       | 2.9       | 2.8       | 2.7       |
|                | 5.0                    | 4.1   | 3.2                        | 3.1       | 3.1       | 2.9       | 2.7       |
|                | 7.0                    | 6.0   | 3.3                        | 3.2       | 3.2       | 3.0       | 2.7       |
| 9.0            | 7.9                    | 3.4   | 3.3                        | 3.2       | 3.0       | 2.7       |           |
| 11.0           | 9.8                    | 3.5   | 3.3                        | 3.2       | 3.0       | 2.7       |           |
| 13.0           | 11.8                   | 3.6   | 3.4                        | 3.2       | 3.0       | 2.7       |           |
| 15.0           | 13.7                   | 3.7   | 3.4                        | 3.2       | 3.0       | 2.7       |           |

# 3. Capacity Table

| Capacity Index | Outdoor Air Temp. (°C) |       | Indoor temperature (°C,DB) |           |           |           |           |
|----------------|------------------------|-------|----------------------------|-----------|-----------|-----------|-----------|
|                |                        |       | 16(°C,DB)                  | 18(°C,DB) | 20(°C,DB) | 22(°C,DB) | 24(°C,DB) |
|                | DB                     | WB    | TC                         | TC        | TC        | TC        | TC        |
|                |                        |       | kW                         | kW        | kW        | kW        | kW        |
| 036            | -19.8                  | -20.0 | 2.4                        | 2.4       | 2.3       | 2.3       | 2.3       |
|                | -18.8                  | -19.0 | 2.5                        | 2.4       | 2.3       | 2.3       | 2.3       |
|                | -16.7                  | -17.0 | 2.6                        | 2.5       | 2.4       | 2.4       | 2.3       |
|                | -14.7                  | -15.0 | 2.7                        | 2.6       | 2.5       | 2.5       | 2.4       |
|                | -12.6                  | -13.0 | 2.8                        | 2.7       | 2.7       | 2.6       | 2.6       |
|                | -10.5                  | -11.0 | 2.9                        | 2.9       | 2.9       | 2.8       | 2.8       |
|                | -9.5                   | -10.0 | 2.9                        | 2.9       | 2.9       | 2.8       | 2.8       |
|                | -8.5                   | -9.1  | 3.0                        | 3.0       | 3.0       | 2.9       | 2.9       |
|                | -7.0                   | -7.6  | 3.1                        | 3.1       | 3.0       | 3.0       | 2.9       |
|                | -5.0                   | -5.6  | 3.3                        | 3.2       | 3.2       | 3.1       | 3.0       |
|                | -3.0                   | -3.7  | 3.4                        | 3.4       | 3.3       | 3.2       | 3.1       |
|                | 0.0                    | -0.7  | 3.6                        | 3.6       | 3.5       | 3.4       | 3.2       |
|                | 3.0                    | 2.2   | 3.8                        | 3.7       | 3.7       | 3.5       | 3.4       |
|                | 5.0                    | 4.1   | 3.9                        | 3.9       | 3.8       | 3.6       | 3.4       |
|                | 7.0                    | 6.0   | 4.1                        | 4.1       | 4.0       | 3.7       | 3.4       |
| 9.0            | 7.9                    | 4.2   | 4.1                        | 4.0       | 3.7       | 3.4       |           |
| 11.0           | 9.8                    | 4.4   | 4.2                        | 4.0       | 3.7       | 3.4       |           |
| 13.0           | 11.8                   | 4.5   | 4.2                        | 4.0       | 3.7       | 3.4       |           |
| 15.0           | 13.7                   | 4.6   | 4.3                        | 4.0       | 3.7       | 3.4       |           |
| 045            | -19.8                  | -20.0 | 3.1                        | 3.0       | 3.0       | 2.9       | 2.9       |
|                | -18.8                  | -19.0 | 3.1                        | 3.1       | 3.1       | 3.0       | 3.0       |
|                | -16.7                  | -17.0 | 3.2                        | 3.2       | 3.1       | 3.0       | 3.0       |
|                | -14.7                  | -15.0 | 3.3                        | 3.3       | 3.2       | 3.1       | 3.0       |
|                | -12.6                  | -13.0 | 3.5                        | 3.4       | 3.3       | 3.3       | 3.2       |
|                | -10.5                  | -11.0 | 3.6                        | 3.6       | 3.5       | 3.5       | 3.4       |
|                | -9.5                   | -10.0 | 3.7                        | 3.7       | 3.6       | 3.5       | 3.5       |
|                | -8.5                   | -9.1  | 3.8                        | 3.7       | 3.7       | 3.6       | 3.5       |
|                | -7.0                   | -7.6  | 3.9                        | 3.8       | 3.8       | 3.7       | 3.6       |
|                | -5.0                   | -5.6  | 4.1                        | 4.1       | 4.0       | 3.9       | 3.7       |
|                | -3.0                   | -3.7  | 4.3                        | 4.2       | 4.2       | 4.1       | 3.9       |
|                | 0.0                    | -0.7  | 4.5                        | 4.4       | 4.4       | 4.2       | 4.0       |
|                | 3.0                    | 2.2   | 4.7                        | 4.7       | 4.6       | 4.4       | 4.2       |
|                | 5.0                    | 4.1   | 4.9                        | 4.8       | 4.8       | 4.5       | 4.2       |
|                | 7.0                    | 6.0   | 5.2                        | 5.1       | 5.0       | 4.6       | 4.2       |
| 9.0            | 7.9                    | 5.3   | 5.2                        | 5.0       | 4.6       | 4.2       |           |
| 11.0           | 9.8                    | 5.5   | 5.2                        | 5.0       | 4.6       | 4.2       |           |
| 13.0           | 11.8                   | 5.6   | 5.3                        | 5.0       | 4.6       | 4.2       |           |
| 15.0           | 13.7                   | 5.8   | 5.4                        | 5.0       | 4.6       | 4.2       |           |
| 056            | -19.8                  | -20.0 | 3.9                        | 3.8       | 3.8       | 3.7       | 3.7       |
|                | -18.8                  | -19.0 | 3.9                        | 3.9       | 3.8       | 3.7       | 3.7       |
|                | -16.7                  | -17.0 | 4.0                        | 4.0       | 3.9       | 3.8       | 3.8       |
|                | -14.7                  | -15.0 | 4.2                        | 4.1       | 4.0       | 3.9       | 3.8       |
|                | -12.6                  | -13.0 | 4.4                        | 4.3       | 4.2       | 4.1       | 4.0       |
|                | -10.5                  | -11.0 | 4.6                        | 4.5       | 4.4       | 4.4       | 4.3       |
|                | -9.5                   | -10.0 | 4.7                        | 4.6       | 4.6       | 4.5       | 4.4       |
|                | -8.5                   | -9.1  | 4.8                        | 4.7       | 4.7       | 4.6       | 4.5       |
|                | -7.0                   | -7.6  | 4.9                        | 4.8       | 4.8       | 4.7       | 4.5       |
|                | -5.0                   | -5.6  | 5.2                        | 5.1       | 5.0       | 4.9       | 4.7       |
|                | -3.0                   | -3.7  | 5.4                        | 5.3       | 5.3       | 5.1       | 4.9       |
|                | 0.0                    | -0.7  | 5.7                        | 5.6       | 5.5       | 5.3       | 5.0       |
|                | 3.0                    | 2.2   | 5.9                        | 5.9       | 5.8       | 5.6       | 5.3       |
|                | 5.0                    | 4.1   | 6.2                        | 6.1       | 6.0       | 5.7       | 5.3       |
|                | 7.0                    | 6.0   | 6.5                        | 6.4       | 6.3       | 5.8       | 5.3       |
| 9.0            | 7.9                    | 6.7   | 6.5                        | 6.3       | 5.8       | 5.3       |           |
| 11.0           | 9.8                    | 6.9   | 6.6                        | 6.3       | 5.8       | 5.3       |           |
| 13.0           | 11.8                   | 7.1   | 6.7                        | 6.3       | 5.8       | 5.3       |           |
| 15.0           | 13.7                   | 7.3   | 6.8                        | 6.3       | 5.8       | 5.3       |           |

### 3. Capacity Table

| Capacity Index | Outdoor Air Temp. (°C) |       | Indoor temperature (°C,DB) |           |           |           |           |
|----------------|------------------------|-------|----------------------------|-----------|-----------|-----------|-----------|
|                |                        |       | 16(°C,DB)                  | 18(°C,DB) | 20(°C,DB) | 22(°C,DB) | 24(°C,DB) |
|                | DB                     | WB    | TC<br>kW                   | TC<br>kW  | TC<br>kW  | TC<br>kW  | TC<br>kW  |
| 071            | -19.8                  | -20.0 | 4.1                        | 4.1       | 4.1       | 4.1       | 4.1       |
|                | -18.8                  | -19.0 | 4.3                        | 4.3       | 4.3       | 4.3       | 4.3       |
|                | -16.7                  | -17.0 | 4.6                        | 4.5       | 4.5       | 4.5       | 4.5       |
|                | -14.7                  | -15.0 | 4.9                        | 4.6       | 4.6       | 4.6       | 4.6       |
|                | -12.6                  | -13.0 | 4.9                        | 4.9       | 4.9       | 4.9       | 4.9       |
|                | -10.5                  | -11.0 | 5.6                        | 5.6       | 5.3       | 5.3       | 5.3       |
|                | -9.5                   | -10.0 | 5.9                        | 5.8       | 5.5       | 5.4       | 5.4       |
|                | -8.5                   | -9.1  | 6.2                        | 6.0       | 5.8       | 5.6       | 5.6       |
|                | -7.0                   | -7.6  | 6.6                        | 6.2       | 6.2       | 5.8       | 5.8       |
|                | -5.0                   | -5.6  | 6.6                        | 6.6       | 6.6       | 6.2       | 6.2       |
|                | -3.0                   | -3.7  | 7.0                        | 7.0       | 6.6       | 6.6       | 6.2       |
|                | 0.0                    | -0.7  | 7.4                        | 7.0       | 7.0       | 6.6       | 6.2       |
|                | 3.0                    | 2.2   | 7.4                        | 7.4       | 7.0       | 6.6       | 6.2       |
|                | 5.0                    | 4.1   | 7.8                        | 7.4       | 7.0       | 6.6       | 6.2       |
|                | 7.0                    | 6.0   | 7.8                        | 7.4       | 7.0       | 6.6       | 6.2       |
|                | 9.0                    | 7.9   | 8.2                        | 7.4       | 7.0       | 6.6       | 6.2       |
| 11.0           | 9.8                    | 8.2   | 7.4                        | 7.0       | 6.6       | 6.2       |           |
| 13.0           | 11.8                   | 8.2   | 7.4                        | 7.0       | 6.6       | 6.2       |           |
| 15.0           | 13.7                   | 8.2   | 7.4                        | 7.0       | 6.6       | 6.2       |           |
| 082            | -19.8                  | -20.0 | 5.3                        | 5.1       | 5.1       | 5.0       | 5.0       |
|                | -18.8                  | -19.0 | 5.3                        | 5.2       | 5.2       | 5.0       | 5.0       |
|                | -16.7                  | -17.0 | 5.4                        | 5.4       | 5.3       | 5.1       | 5.1       |
|                | -14.7                  | -15.0 | 5.7                        | 5.5       | 5.4       | 5.3       | 5.1       |
|                | -12.6                  | -13.0 | 5.9                        | 5.7       | 5.6       | 5.6       | 5.4       |
|                | -10.5                  | -11.0 | 6.1                        | 6.1       | 6.0       | 5.9       | 5.8       |
|                | -9.5                   | -10.0 | 6.3                        | 6.3       | 6.2       | 6.0       | 5.9       |
|                | -8.5                   | -9.1  | 6.4                        | 6.4       | 6.3       | 6.1       | 6.0       |
|                | -7.0                   | -7.6  | 6.6                        | 6.5       | 6.5       | 6.3       | 6.1       |
|                | -5.0                   | -5.6  | 7.0                        | 6.9       | 6.7       | 6.6       | 6.3       |
|                | -3.0                   | -3.7  | 7.3                        | 7.2       | 7.2       | 6.9       | 6.6       |
|                | 0.0                    | -0.7  | 7.7                        | 7.6       | 7.4       | 7.2       | 6.7       |
|                | 3.0                    | 2.2   | 8.0                        | 8.0       | 7.8       | 7.6       | 7.2       |
|                | 5.0                    | 4.1   | 8.4                        | 8.2       | 8.1       | 7.7       | 7.2       |
|                | 7.0                    | 6.0   | 8.8                        | 8.6       | 8.5       | 7.8       | 7.2       |
|                | 9.0                    | 7.9   | 9.0                        | 8.8       | 8.5       | 7.8       | 7.2       |
| 11.0           | 9.8                    | 9.3   | 8.9                        | 8.5       | 7.8       | 7.2       |           |
| 13.0           | 11.8                   | 9.6   | 9.0                        | 8.5       | 7.8       | 7.2       |           |
| 15.0           | 13.7                   | 9.8   | 9.2                        | 8.5       | 7.8       | 7.2       |           |

 **NOTE**

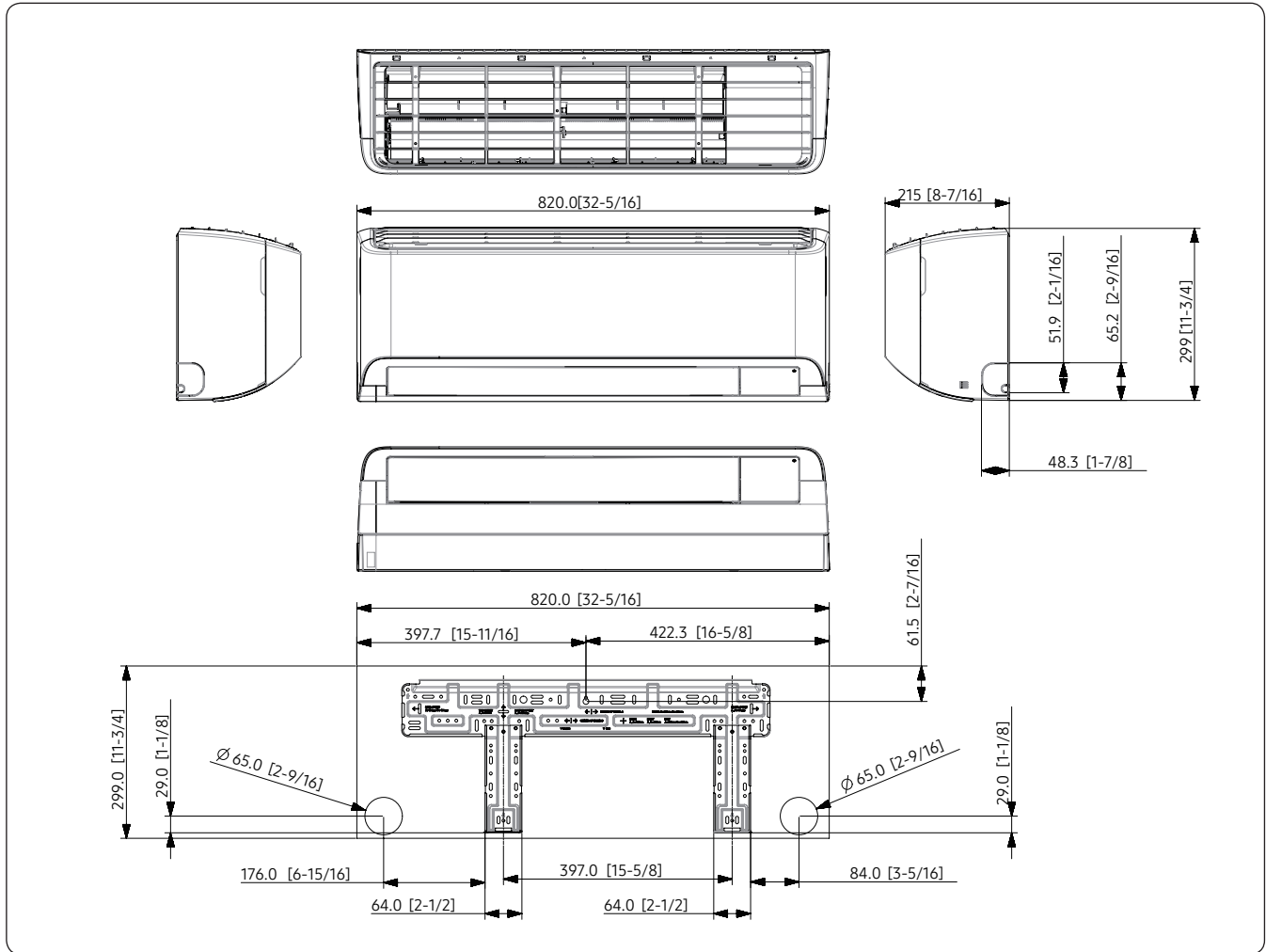
- The performance table shows the average value of each conditions.

# 4. Dimensional Drawing

Wind-Free™

AM015TNADKH/EU, AM022TNADKH/EU, AM028TNADKH/EU, AM036TNADKH/EU  
AM015TNVDKH/EU, AM022TNVDKH/EU, AM028TNVDKH/EU, AM036TNVDKH/EU

Unit: mm (inches)

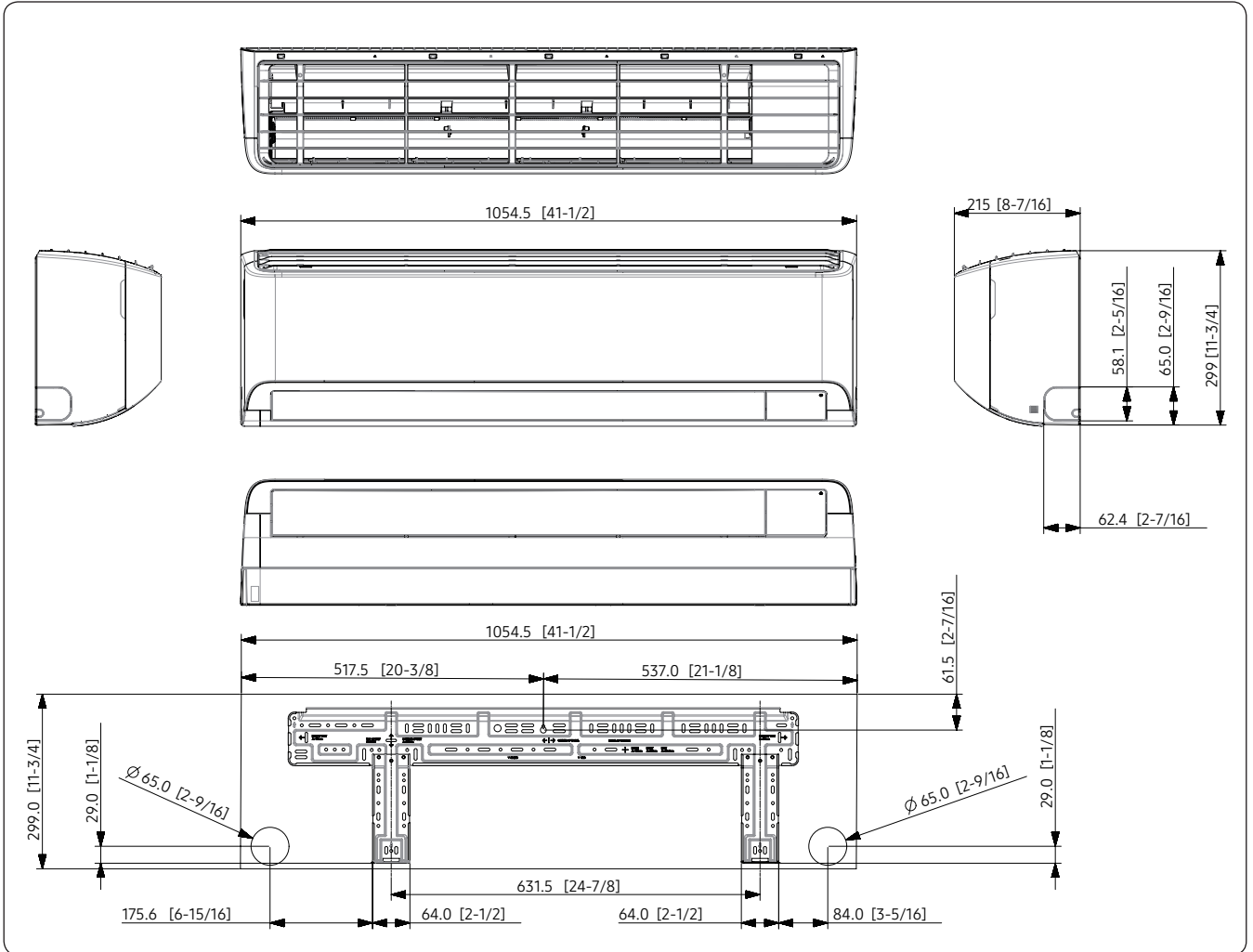


# 4. Dimensional Drawing

Wind-Free™

AM045TNADKH/EU, AM056TNADKH/EU, AM071TNADKH/EU, AM082TNADKH/EU  
AM045TNVDKH/EU, AM056TNVDKH/EU, AM071TNVDKH/EU, AM082TNVDKH/EU

Unit: mm (inches)

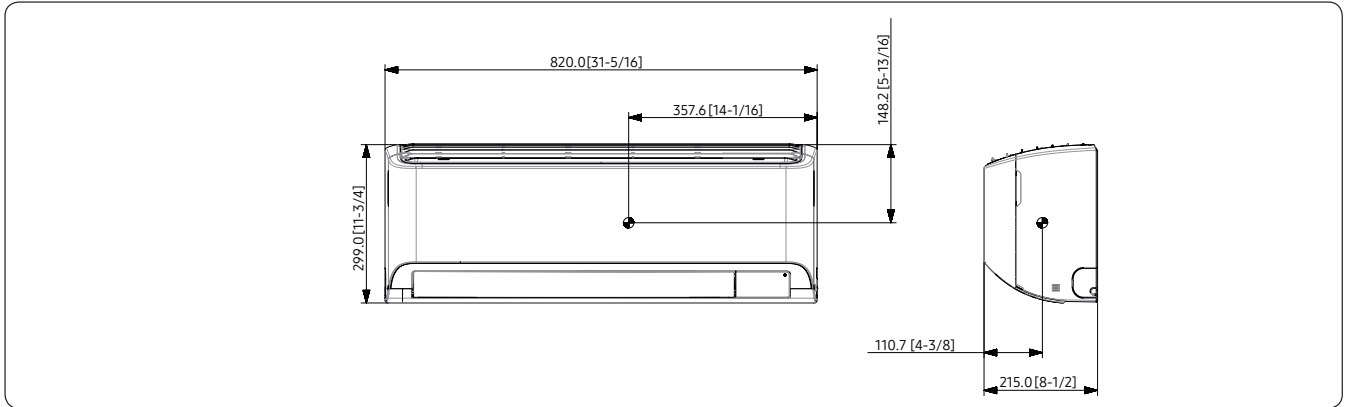


# 5. Center of Gravity

Wind-Free™

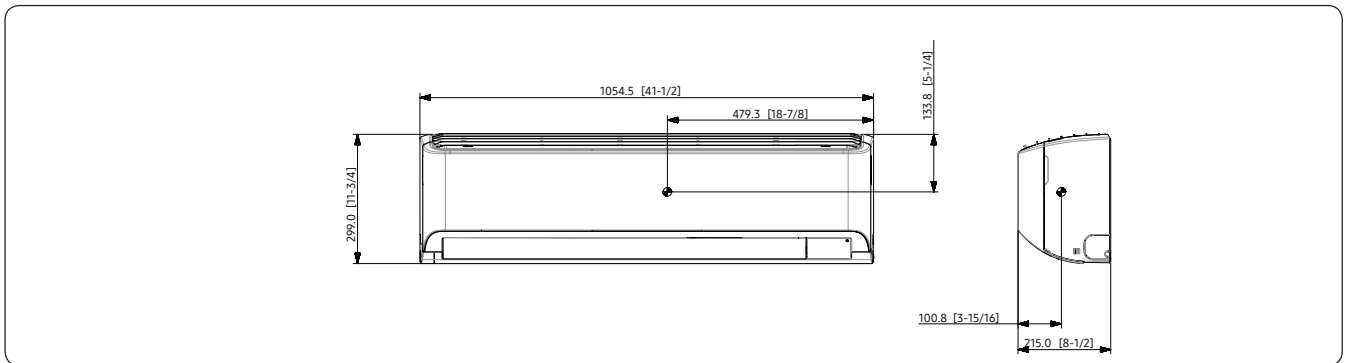
AM015TNADKH/EU, AM022TNADKH/EU, AM028TNADKH/EU, AM036TNADKH/EU  
AM015TNVDKH/EU, AM022TNVDKH/EU, AM028TNVDKH/EU, AM036TNVDKH/EU

Unit: mm (inches)



AM045TNADKH/EU, AM056TNADKH/EU, AM071TNADKH/EU, AM082TNADKH/EU  
AM045TNVDKH/EU, AM056TNVDKH/EU, AM071TNVDKH/EU, AM082TNVDKH/EU

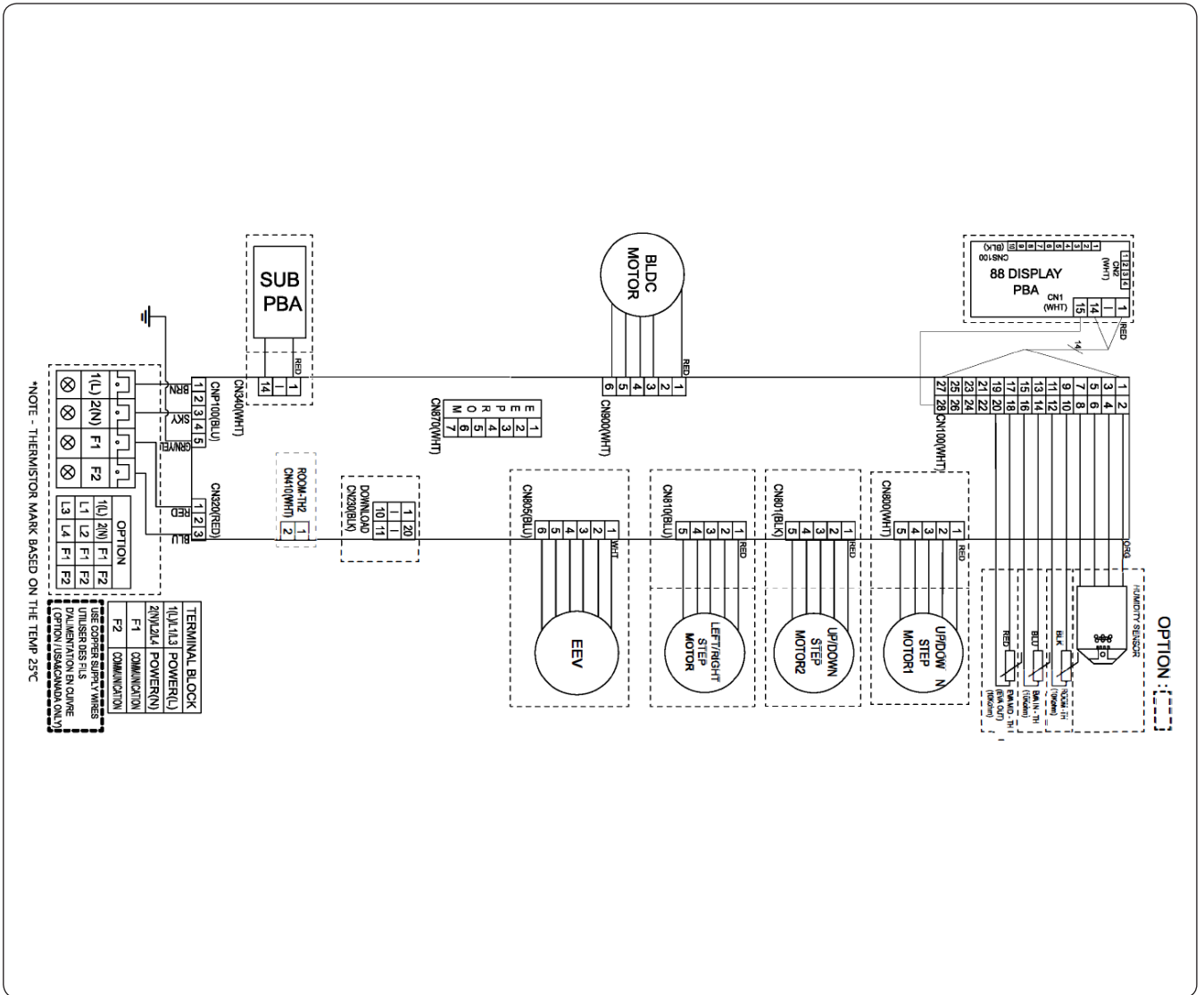
Unit: mm (inches)





# 6. Electrical Wiring Diagram

Wind-Free™



|         |                            |           |                            |              |                         |
|---------|----------------------------|-----------|----------------------------|--------------|-------------------------|
| SUB PBA | Printed Circuit Board(SUB) | EEV       | Electronic expansion valve | EVA-OUT(10K) | Thermistor EVA OUT(10K) |
| MOTOR   | BLDC                       | ROOM(10K) | Thermistor ROOM In(10K)    | EVA-IN(10K)  | Thermistor EVA IN(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: sky blue, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.

- Protective earth(SCREW)

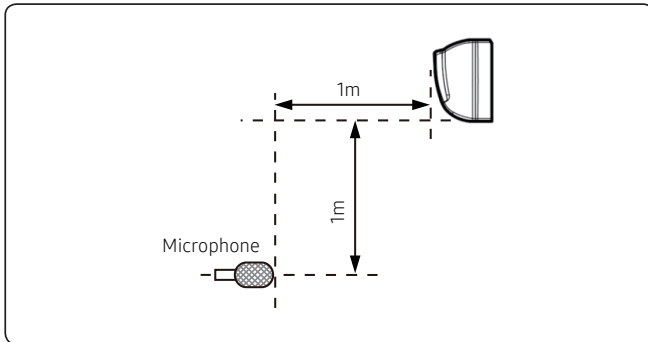
EARTH EARTH

# 7. Sound Data

Wind-Free™

## Sound Pressure level

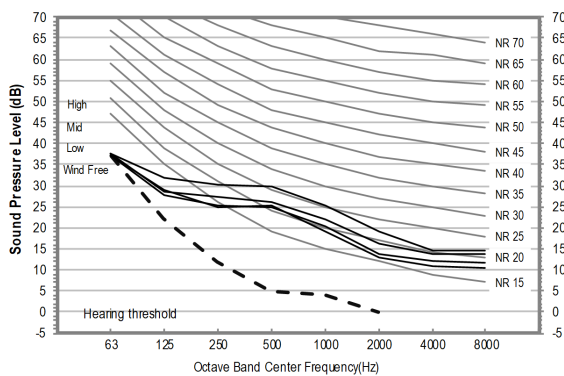
Unit: dB(A)



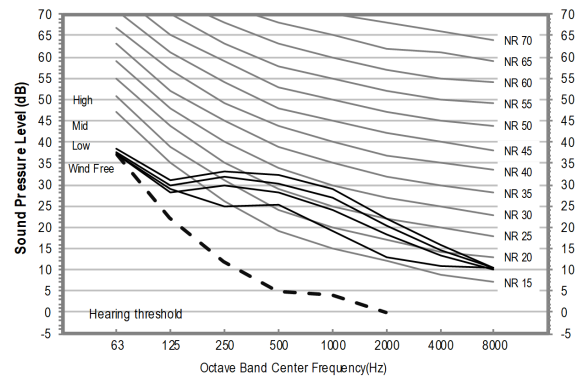
| Model          | High | Mid | Low | Wind-Free |
|----------------|------|-----|-----|-----------|
| AM015TN*DKH/EU | 31   | 30  | 27  | 26        |
| AM022TN*DKH/EU | 34   | 32  | 30  | 27        |
| AM028TN*DKH/EU | 34   | 33  | 32  | 26        |
| AM036TN*DKH/EU | 40   | 36  | 34  | 26        |

- NR Curve

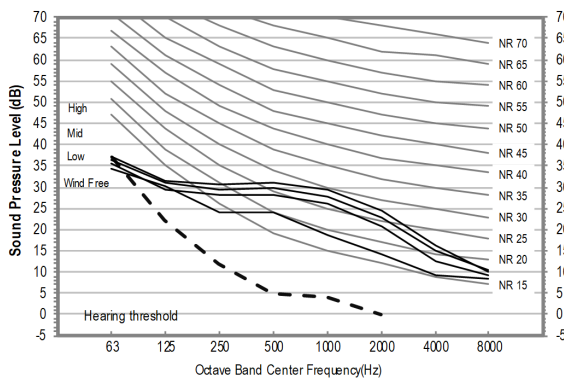
1) AM015TN\*DKH/EU



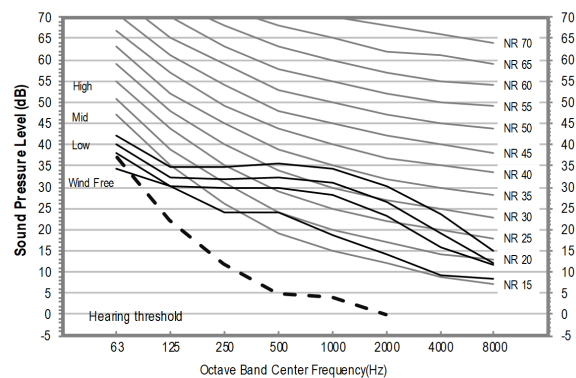
2) AM022TN\*DKH/EU



3) AM028TN\*DKH/EU



4) AM036TN\*DKH/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.
  - dB(A) = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

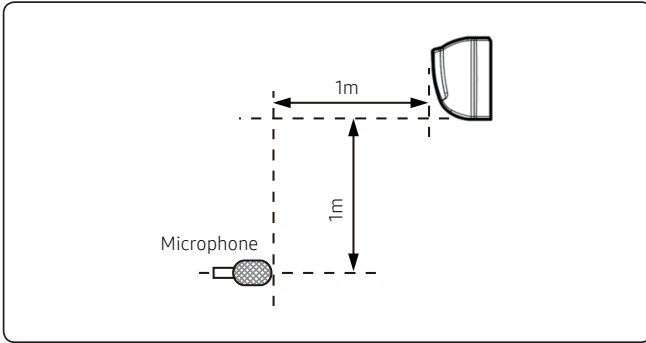
\* The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

# 7. Sound Data

Wind-Free™

## Sound Pressure level

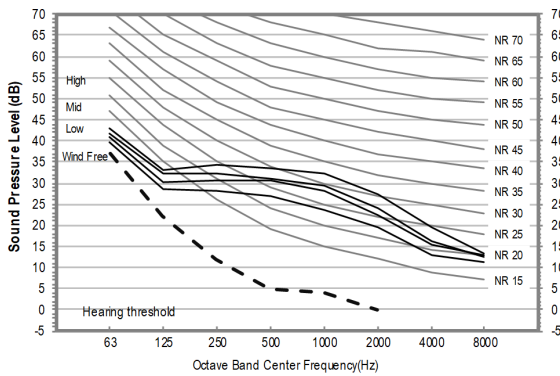
Unit: dB(A)



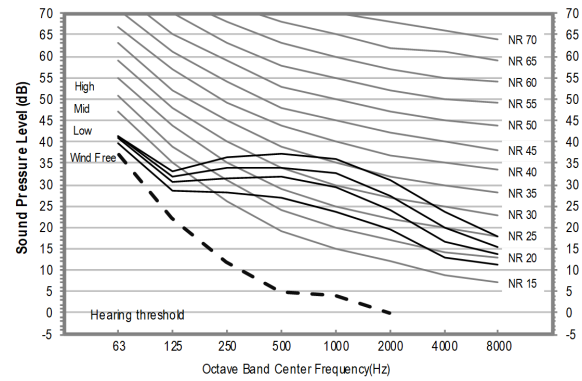
| Model          | High | Mid | Low | Wind-Free |
|----------------|------|-----|-----|-----------|
| AM045TN*DKH/EU | 37   | 34  | 33  | 29        |
| AM056TN*DKH/EU | 40   | 37  | 34  | 29        |
| AM071TN*DKH/EU | 43   | 40  | 37  | 29        |
| AM082TN*DKH/EU | 46   | 45  | 43  | 30        |

- NR Curve

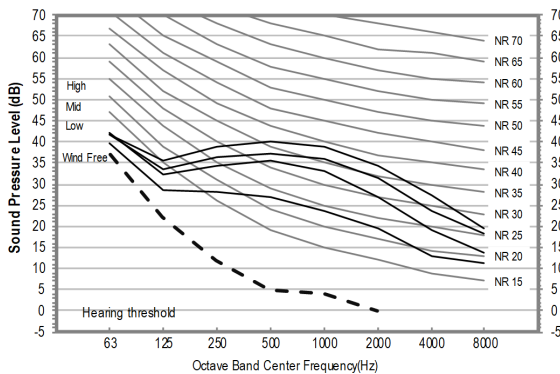
1) AM045TN\*DKH/EU



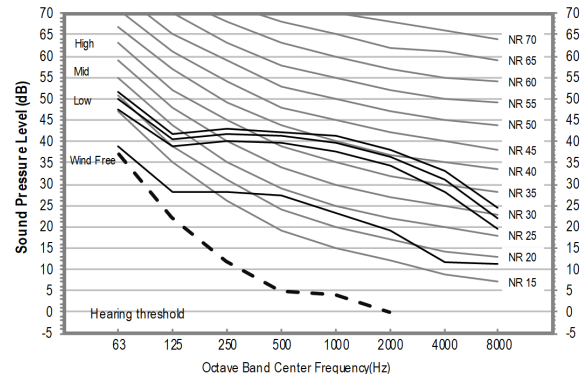
2) AM056TN\*DKH/EU



3) AM071TN\*DKH/EU



4) AM082TN\*DKH/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

\* The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

# 7. Sound Data

Wind-Free™

## Sound Power level

### NOTE

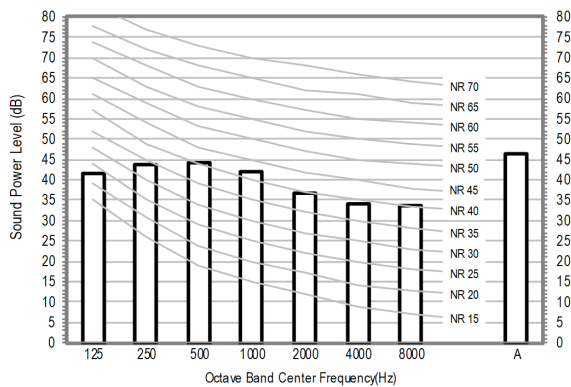
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

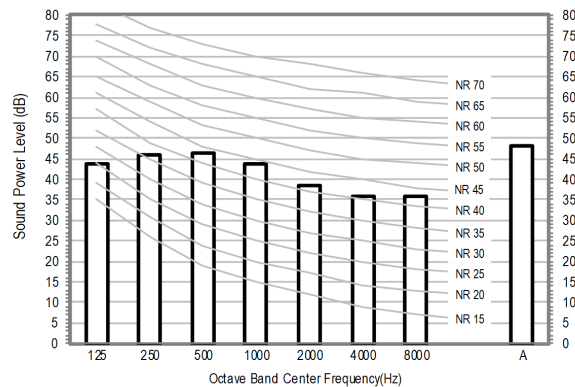
| Model          | Power |
|----------------|-------|
| AM015TN*DKH/EU | 50    |
| AM022TN*DKH/EU | 51    |
| AM028TN*DKH/EU | 52    |
| AM036TN*DKH/EU | 56    |

- NR Curve

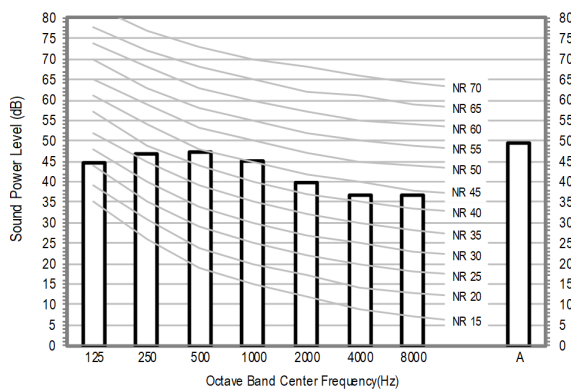
1) AM015TN\*DKH/EU



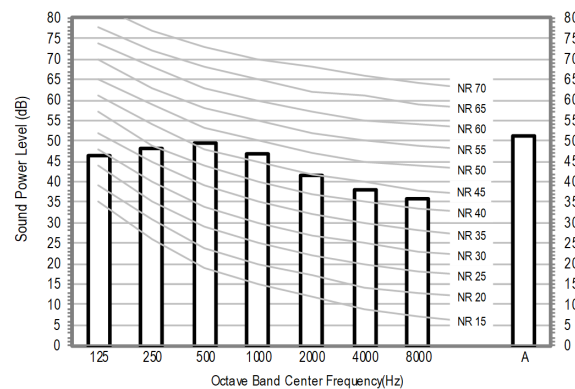
2) AM022TN\*DKH/EU



3) AM028TN\*DKH/EU



4) AM036TN\*DKH/EU



\* The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

# 7. Sound Data

Wind-Free™

## Sound Power level

### NOTE

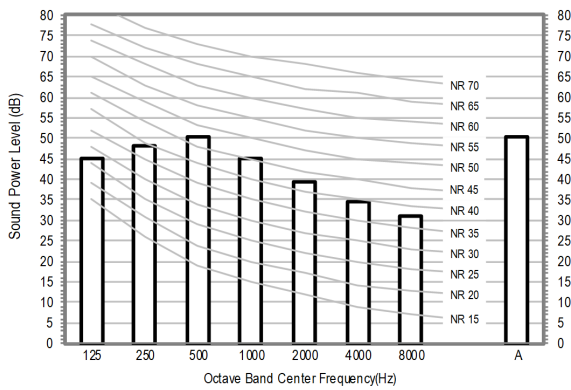
Unit: dB(A)

- 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.

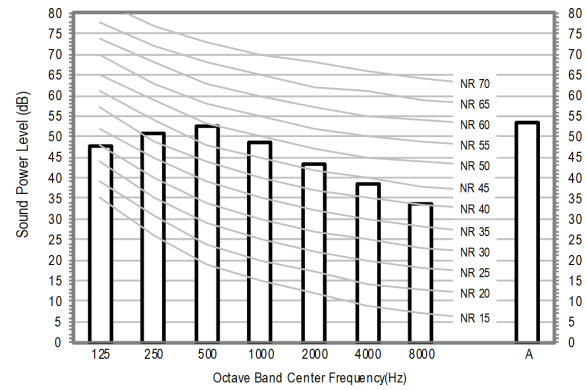
| Model          | Power |
|----------------|-------|
| AM045TN*DKH/EU | 55    |
| AM056TN*DKH/EU | 58    |
| AM071TN*DKH/EU | 62    |
| AM082TN*DKH/EU | 64    |

- NR Curve

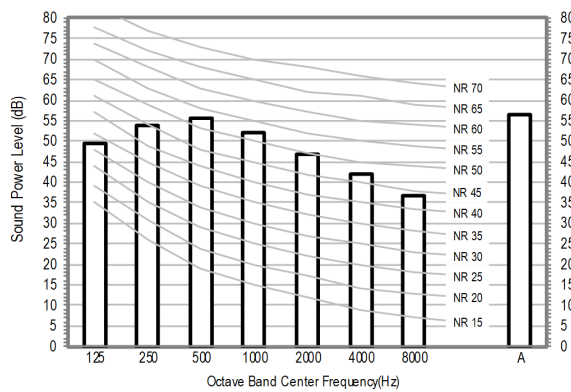
1) AM045TN\*DKH/EU



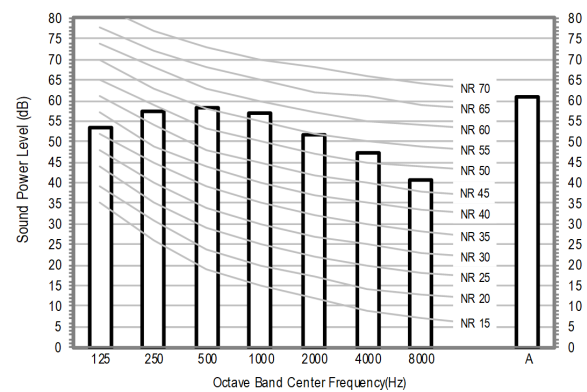
2) AM056TN\*DKH/EU



3) AM071TN\*DKH/EU



4) AM082TN\*DKH/EU



※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

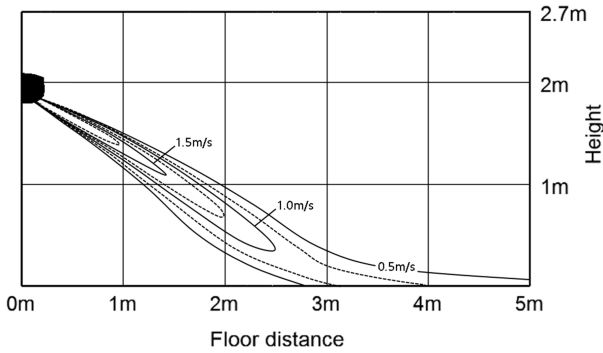
# 8. Temperature and Air Flow Distribution

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AM015TN×DKH/EU

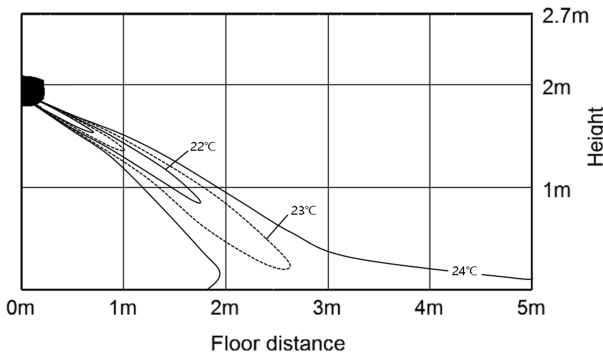
1) Cooling air velocity distribution

Discharge angle : 20°



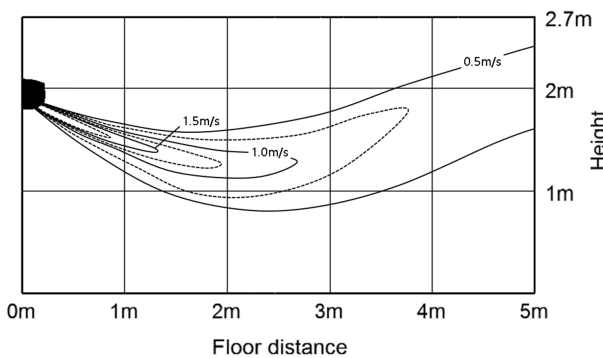
2) Cooling temperature distribution

Discharge angle : 20°



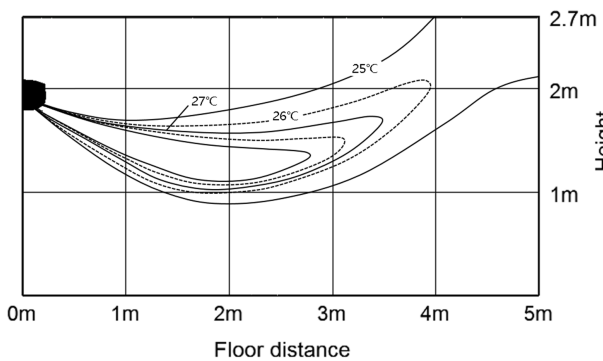
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



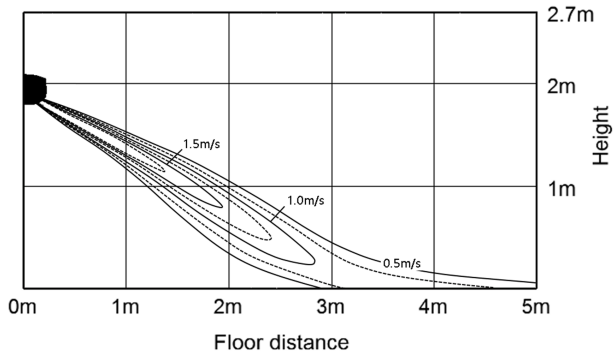
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM022TN×DKH/EU

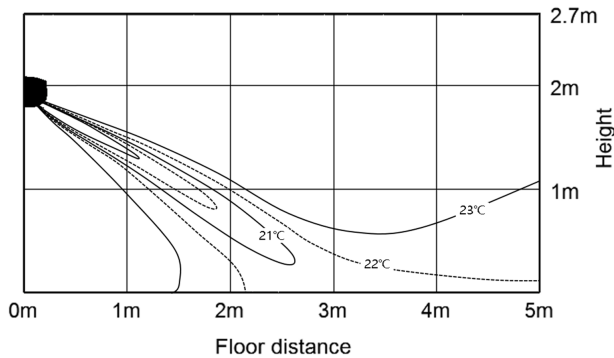
1) Cooling air velocity distribution

Discharge angle : 20°



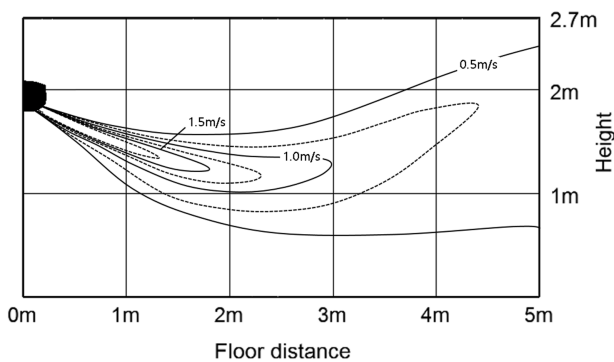
2) Cooling temperature distribution

Discharge angle : 20°



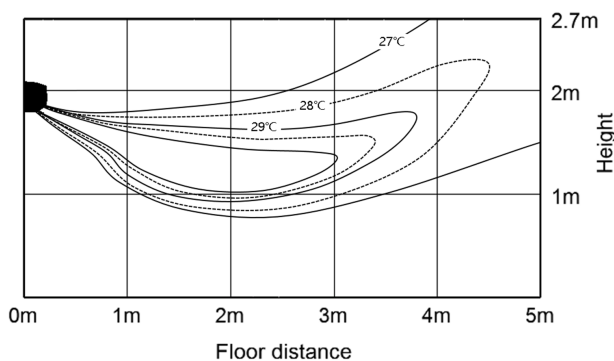
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



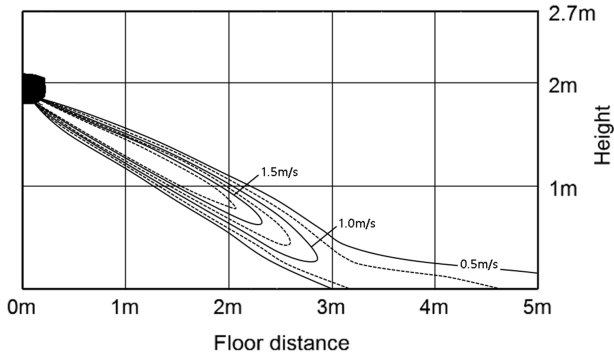
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM028TN\*DKH/EU

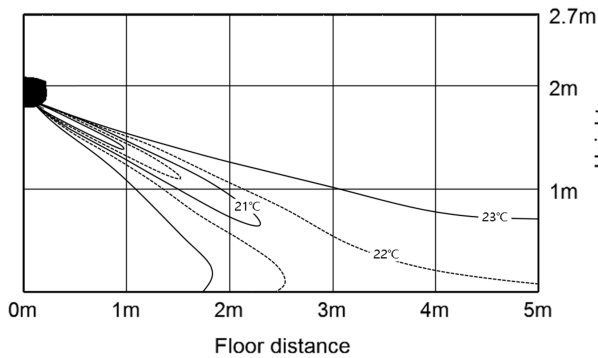
1) Cooling air velocity distribution

Discharge angle : 20°



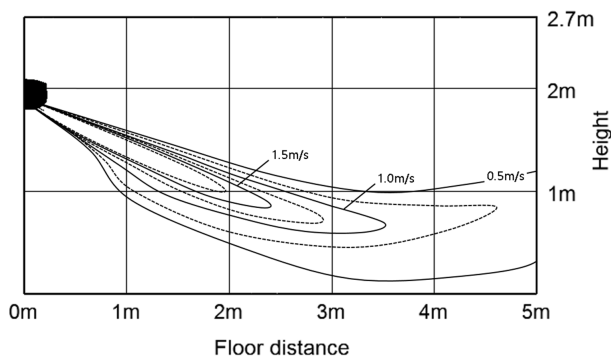
2) Cooling temperature distribution

Discharge angle : 20°



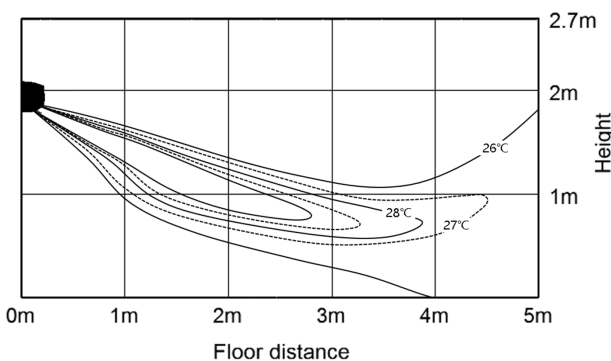
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°





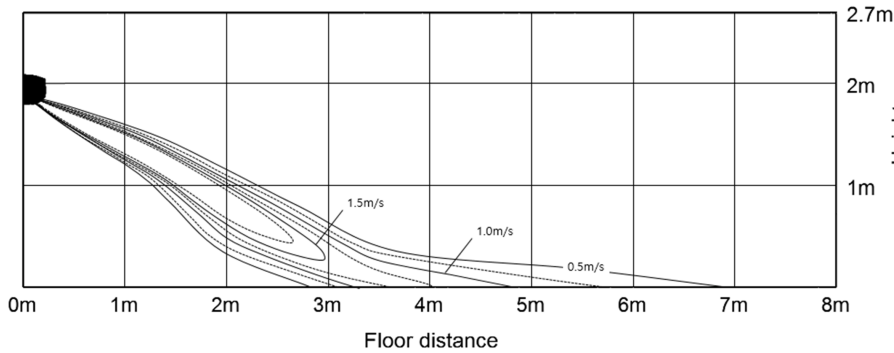
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM036TN\*DKH/EU

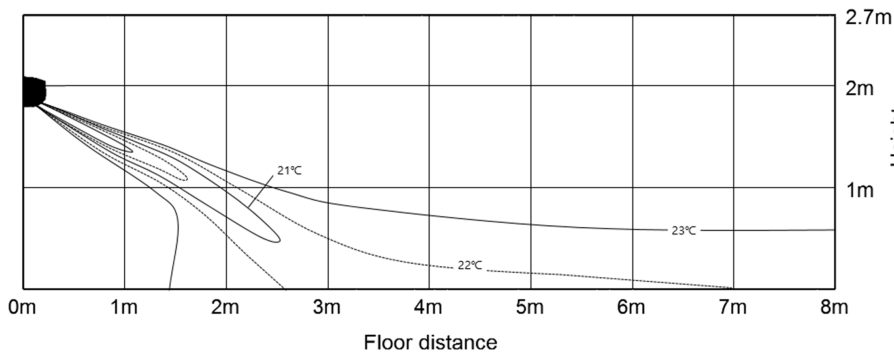
1) Cooling air velocity distribution

Discharge angle : 20°



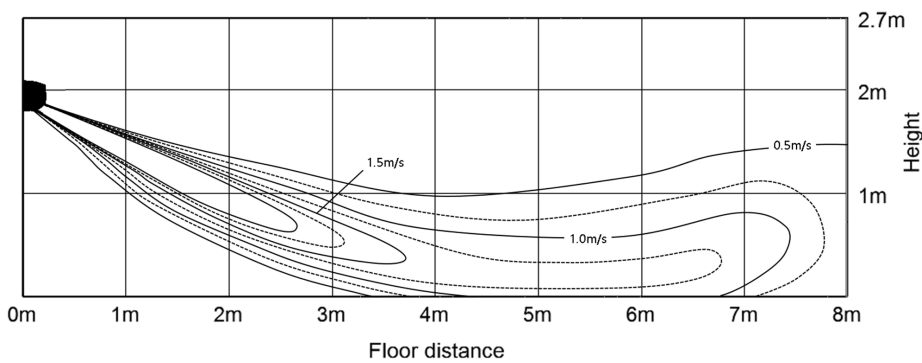
2) Cooling temperature distribution

Discharge angle : 20°



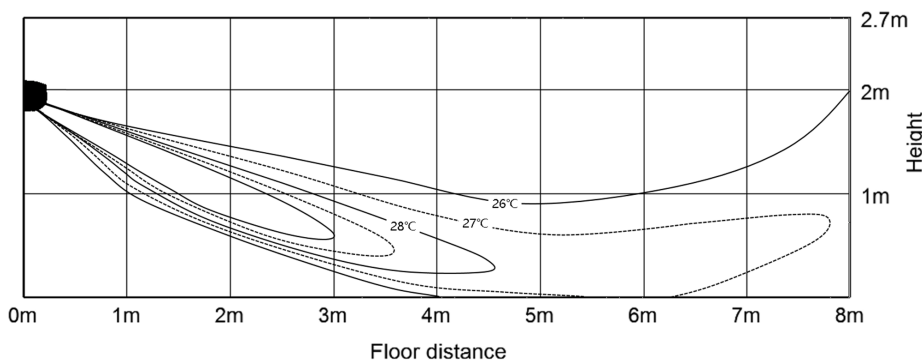
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



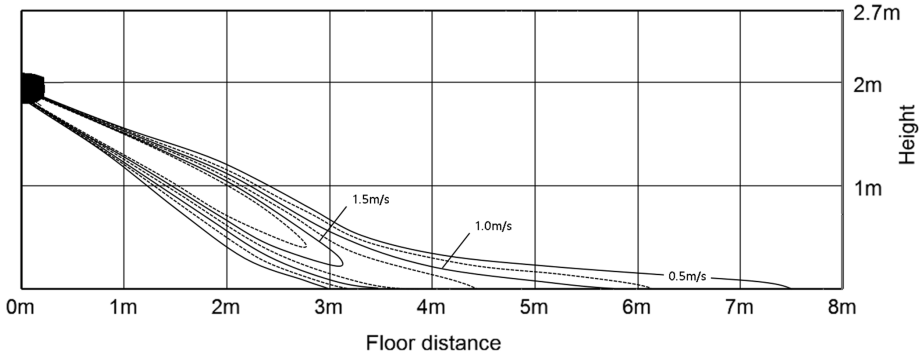
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM045TN\*DKH/EU

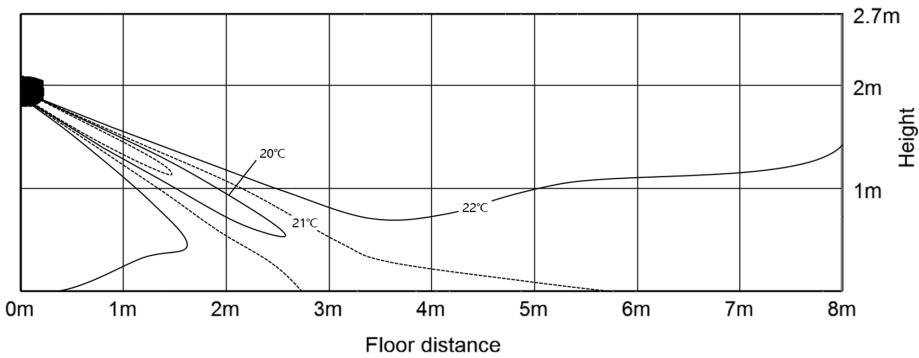
1) Cooling air velocity distribution

Discharge angle : 20°



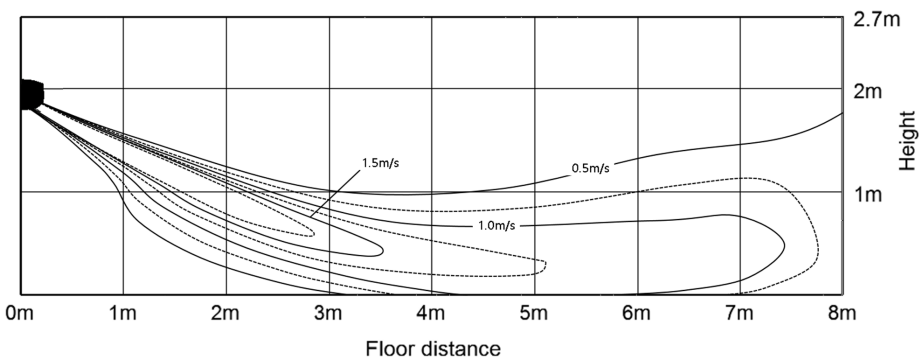
2) Cooling temperature distribution

Discharge angle : 20°



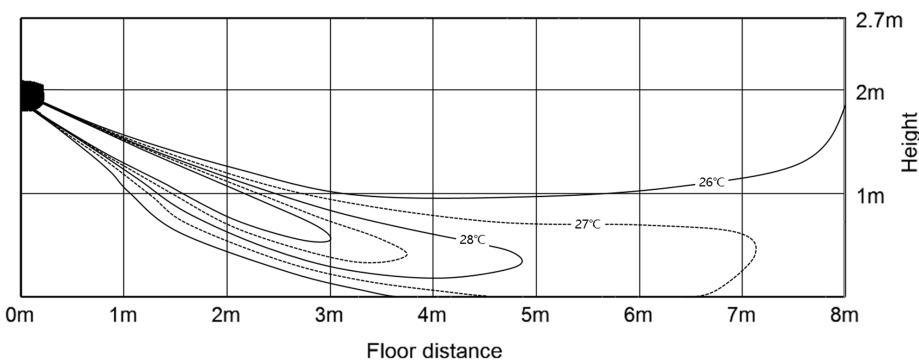
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



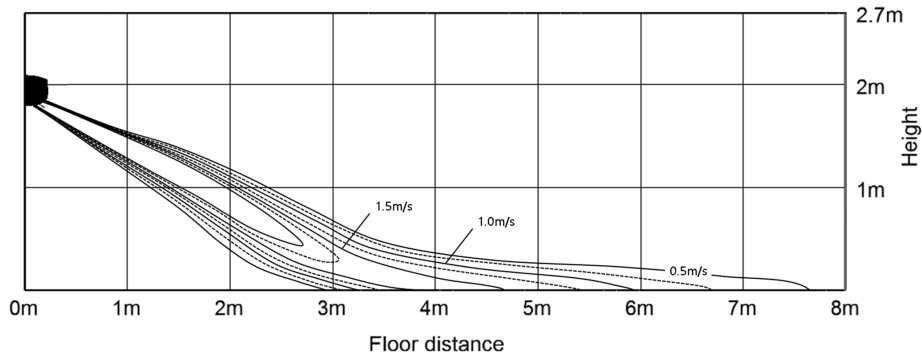
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM056TN×DKH/EU

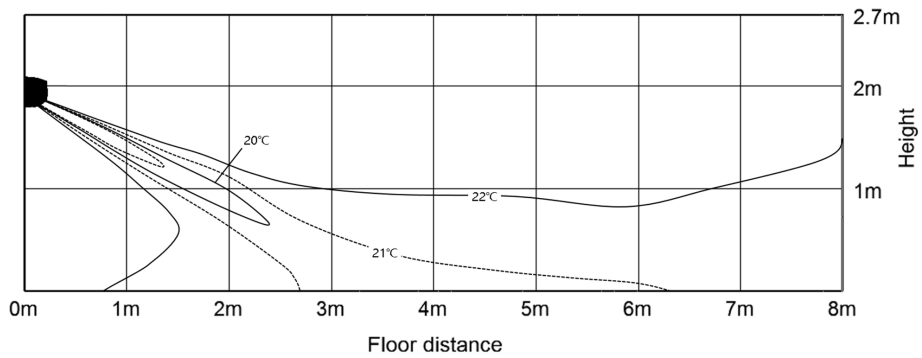
1) Cooling air velocity distribution

Discharge angle : 20°



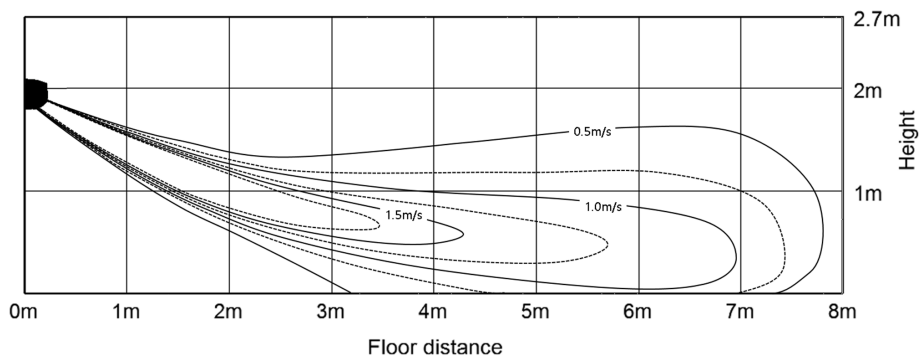
2) Cooling temperature distribution

Discharge angle : 20°



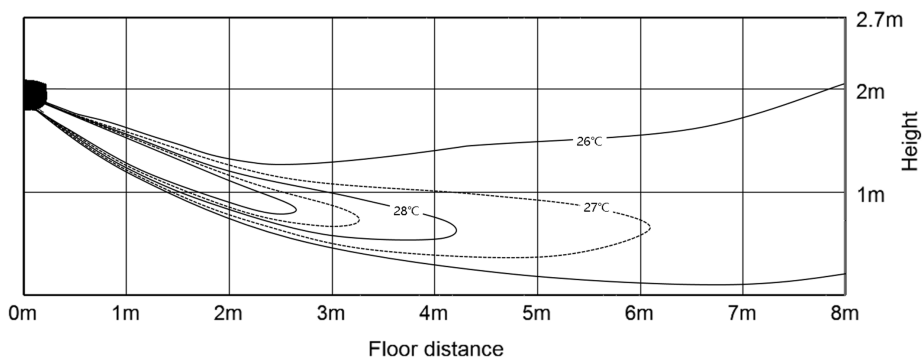
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



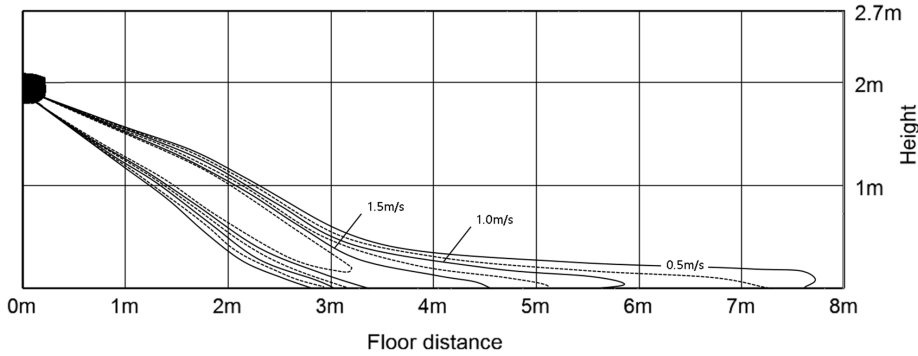
# 8. Temperature and Air Flow Distribution

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AM071TNADKH/EU

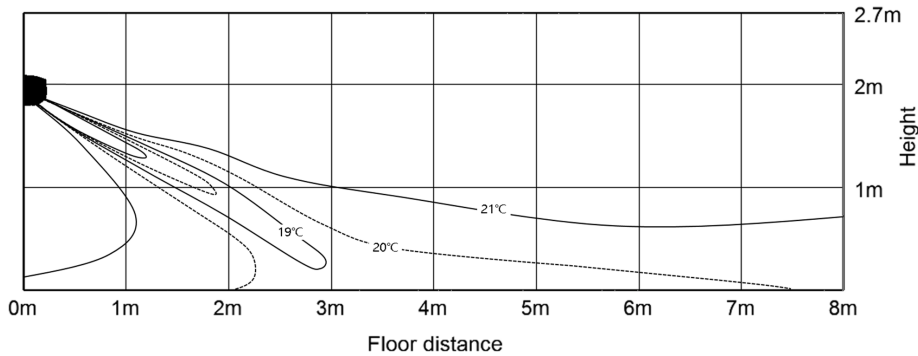
1) Cooling air velocity distribution

Discharge angle : 20°



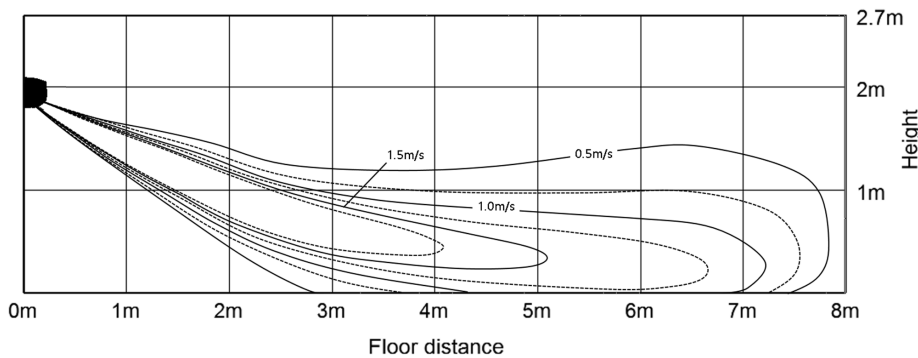
2) Cooling temperature distribution

Discharge angle : 20°



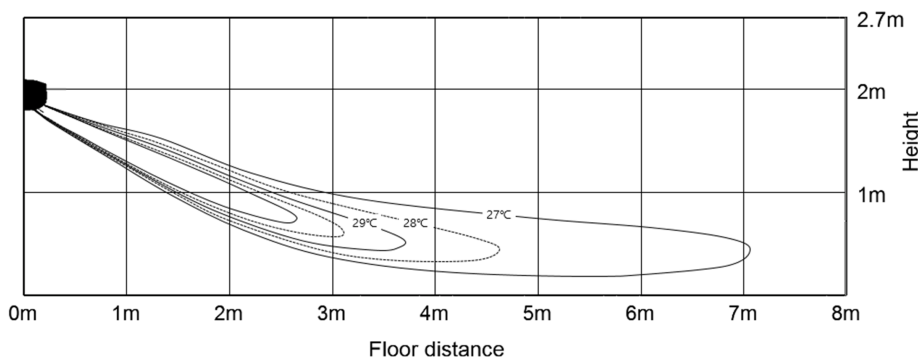
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



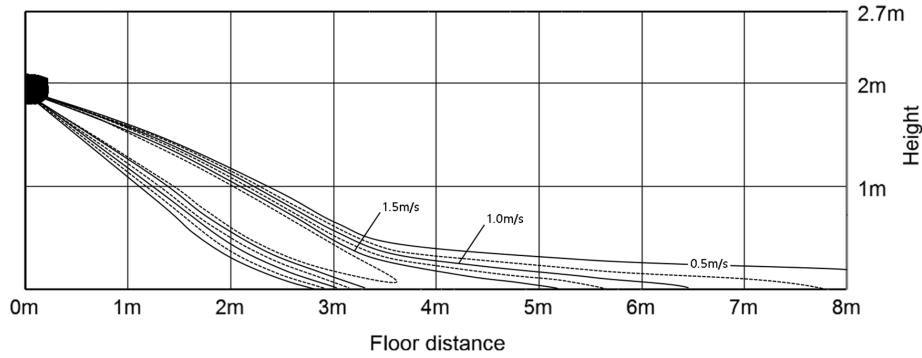
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM071TNVDKH/EU

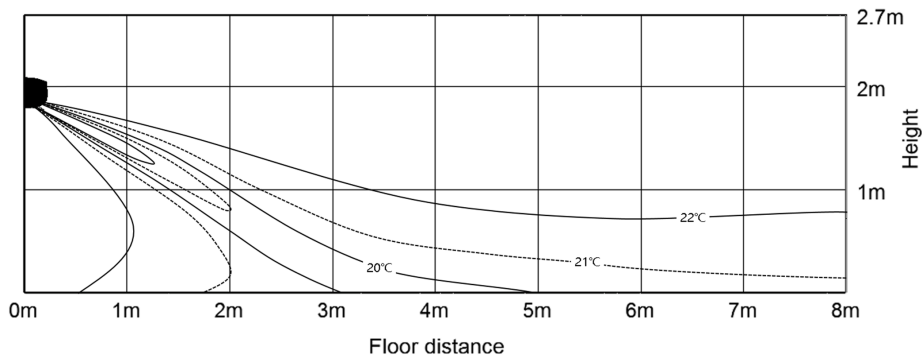
1) Cooling air velocity distribution

Discharge angle : 20°



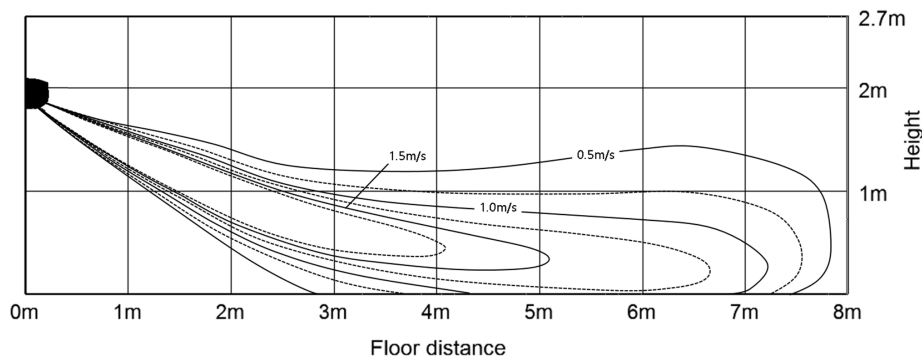
2) Cooling temperature distribution

Discharge angle : 20°



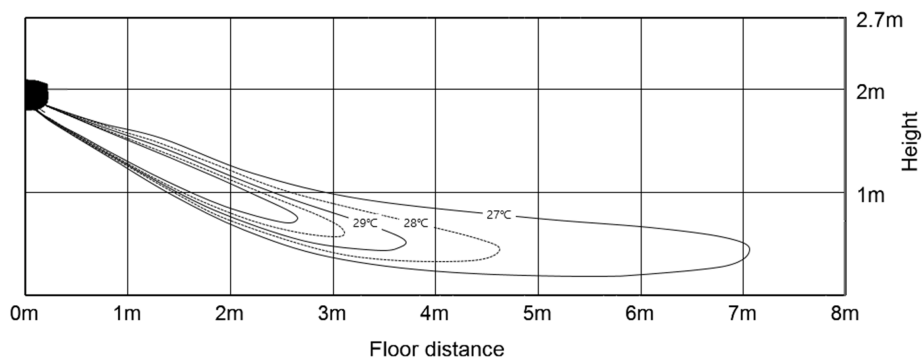
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



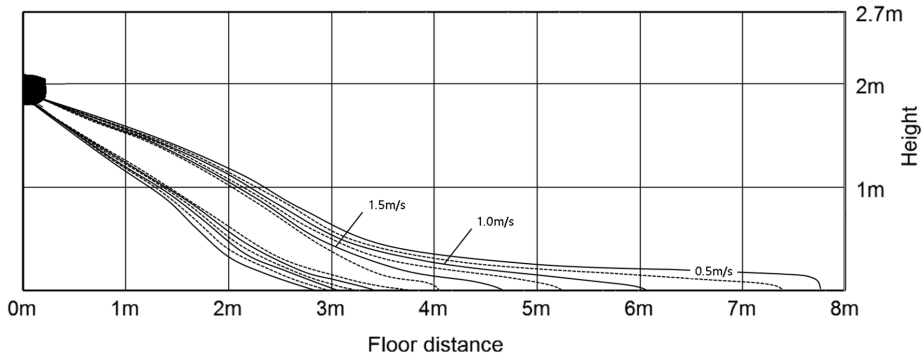
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM082TNADKH/EU

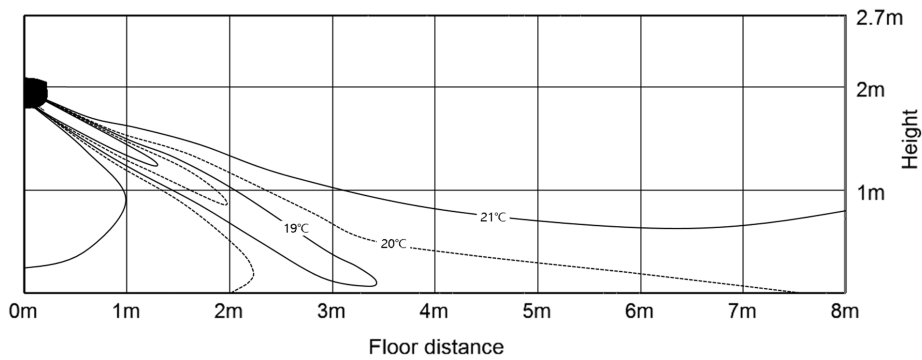
1) Cooling air velocity distribution

Discharge angle : 20°



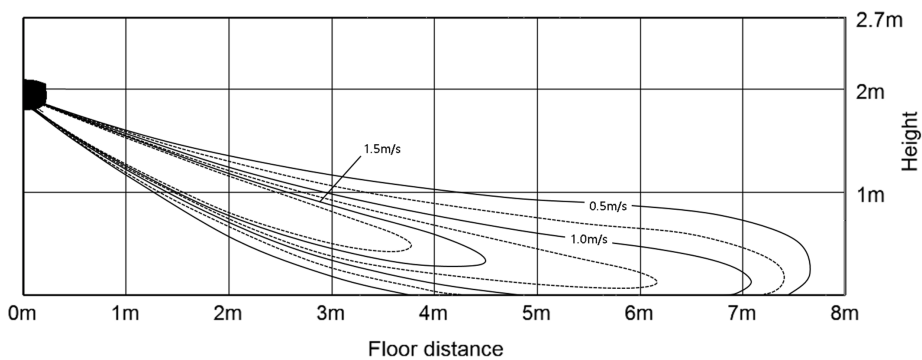
2) Cooling temperature distribution

Discharge angle : 20°



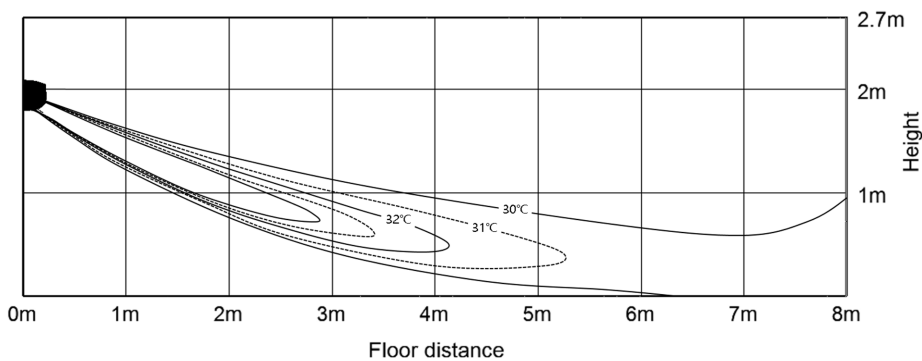
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

Discharge angle : 30°



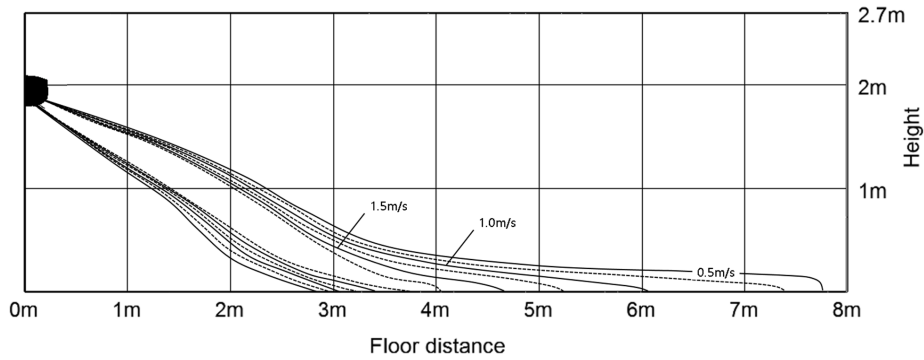
# 8. Temperature and Air Flow Distribution

Wind-Free™

AM082TNVDKH/EU

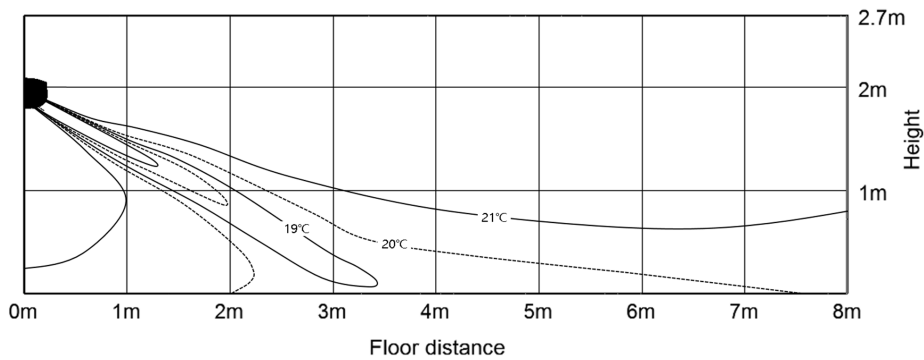
1) Cooling air velocity distribution

Discharge angle : 20°



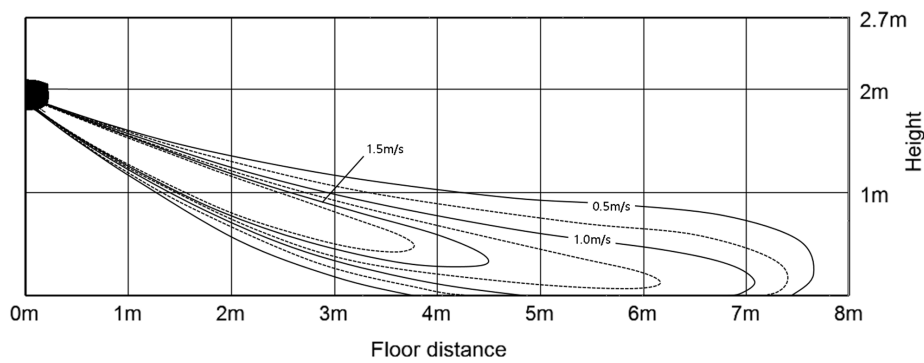
2) Cooling temperature distribution

Discharge angle : 20°



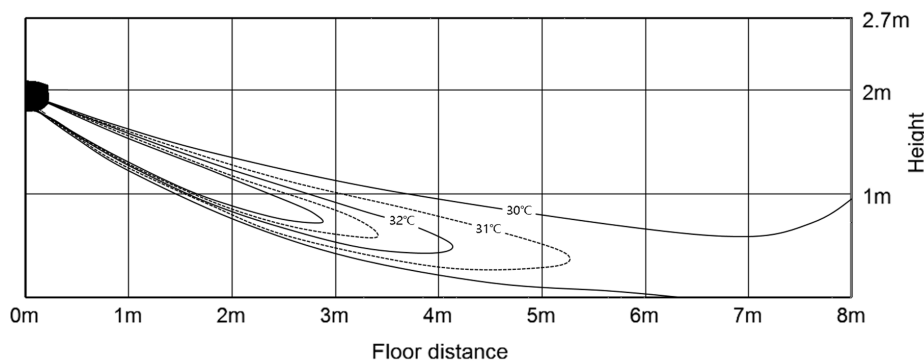
3) Heating air velocity distribution

Discharge angle : 30°



4) Heating temperature distribution

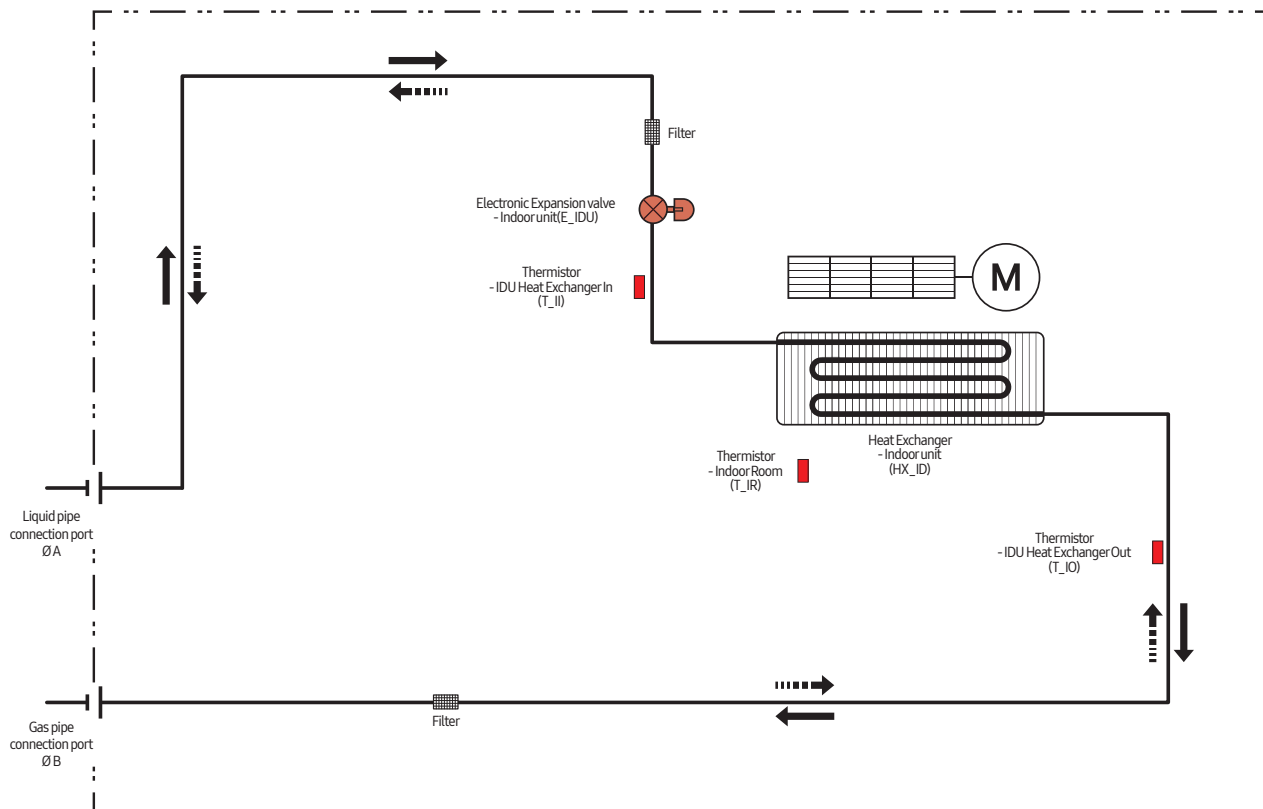
Discharge angle : 30°



# 9. Piping Diagram

Wind-Free™

## EEV included Model



| Refrigerant flow |         |
|------------------|---------|
| Cooling          | Heating |
| →                | ←       |



# 10. Installation

Wind-Free™

## Selecting the installation location

### Indoor Unit

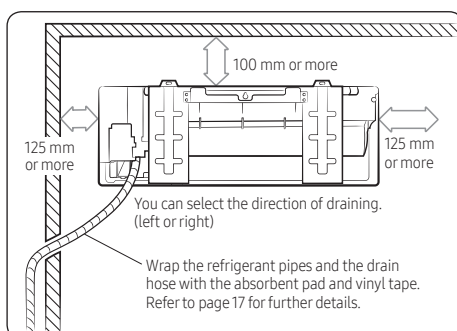
- Where airflow is not blocked.
- Where cool air can be distributed throughout the room.
- Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- Wall that prevents vibration and is strong enough to hold the product weight.
- Out of the direct sunlight.
- 1m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- As far away as possible from fluorescent and incandescent lights (so that the remote control can be operated well).
- A place where the air filter can be replaced easily.

### ⚠ CAUTION

- Do not install the product with EEV (commercial model) in a quiet place such as bedroom, hotel, and hospital. If installation is required in a place, install the indoor unit that has no EEV along with the EEV kit.
- Avoid the following places to prevent malfunction of the unit.
  - Where there is machine oil
  - Salty environment such as the seaside areas
  - Where sulfide gas exists
  - Other special atmosphere areas

## Space requirements for installation & service

Observe the clearances and maximum lengths as seen in the picture below when installing the air conditioner.



### 📖 NOTE

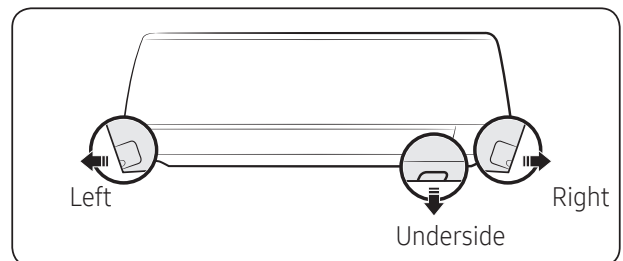
- The appearance of the unit may be different from the diagram depending on the model.

## Installing the indoor unit

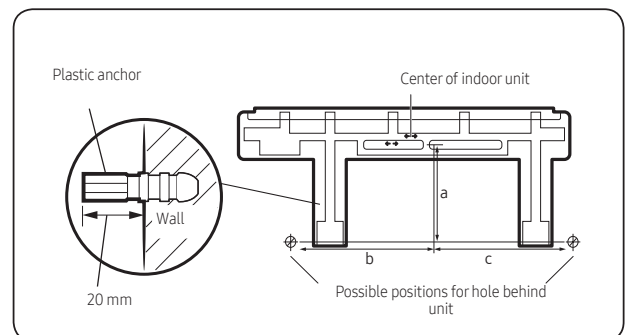
Before fixing the installation plate to the wall or window frame, you must determine the position of the 65 mm hole through which the cable, pipe and hose pass to connect the indoor unit to the outdoor unit.

When facing the wall, the pipe and cable can be connected from the:

- Right
- Left
- Underside (right)
- Rear (right or left)



- 1 Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 65 mm so that it slants slightly downwards.



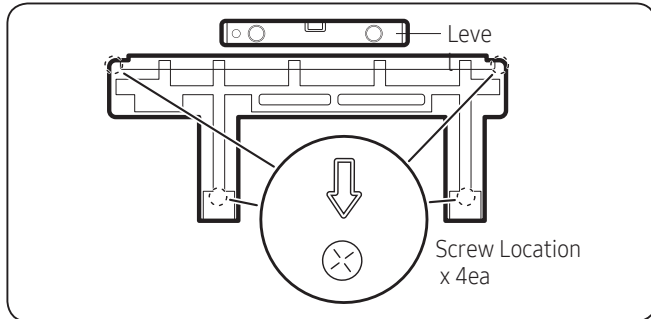
Pipe bundle hole:  $\varnothing$  65 mm

(Unit : mm)

| Model               | a   | b   | c     |
|---------------------|-----|-----|-------|
| **015/022/028/036** | 165 | 305 | 416   |
| **045/056/071/082** | 150 | 305 | 650.5 |

# 10. Installation

- 2 If you fix the indoor unit to a wall, fix the installation plate to the wall giving attention to the weight of the indoor unit.

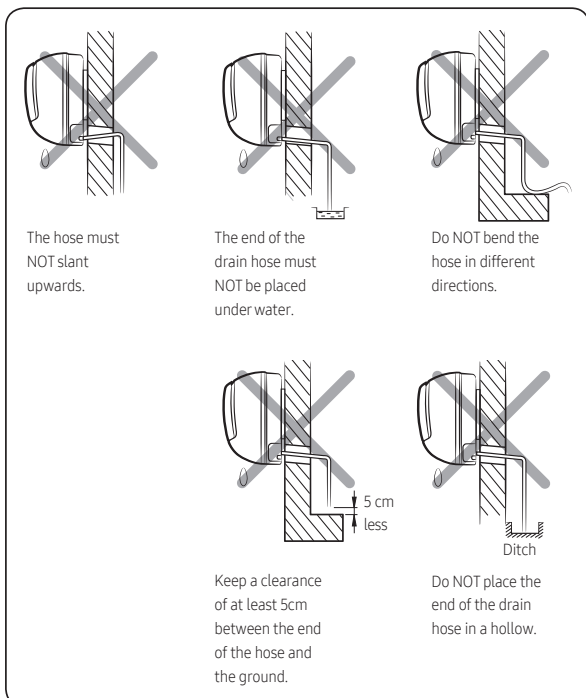


**NOTE**

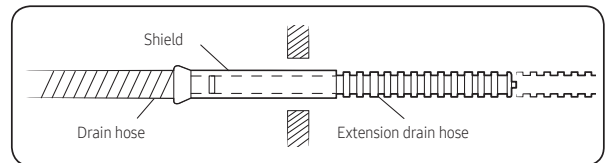
- If you mount the plate to a concrete wall by using plastic anchors, make sure that gaps between the wall and the plate, created by projected anchor, are less than 20 mm.
- 3 If you fix the indoor unit to a window frame, follow 4 to 6.
- 4 Determine the positions of the wooden uprights to be attached to the window frame.
- 5 Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.
- 6 Attach the installation plate to the wooden uprights using tapping screw.

### Installing the drain hose

When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 65-mm hole drilled in the wall, check the following:



- 1 If necessary, connect the 2-meter extension drain hose to the drain hose.
- 2 If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
- 3 Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.



**NOTE**

- If you don't use the other drain hose hole, block it with a rubber stopper.
- 4 Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
- 5 Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.

**NOTE**

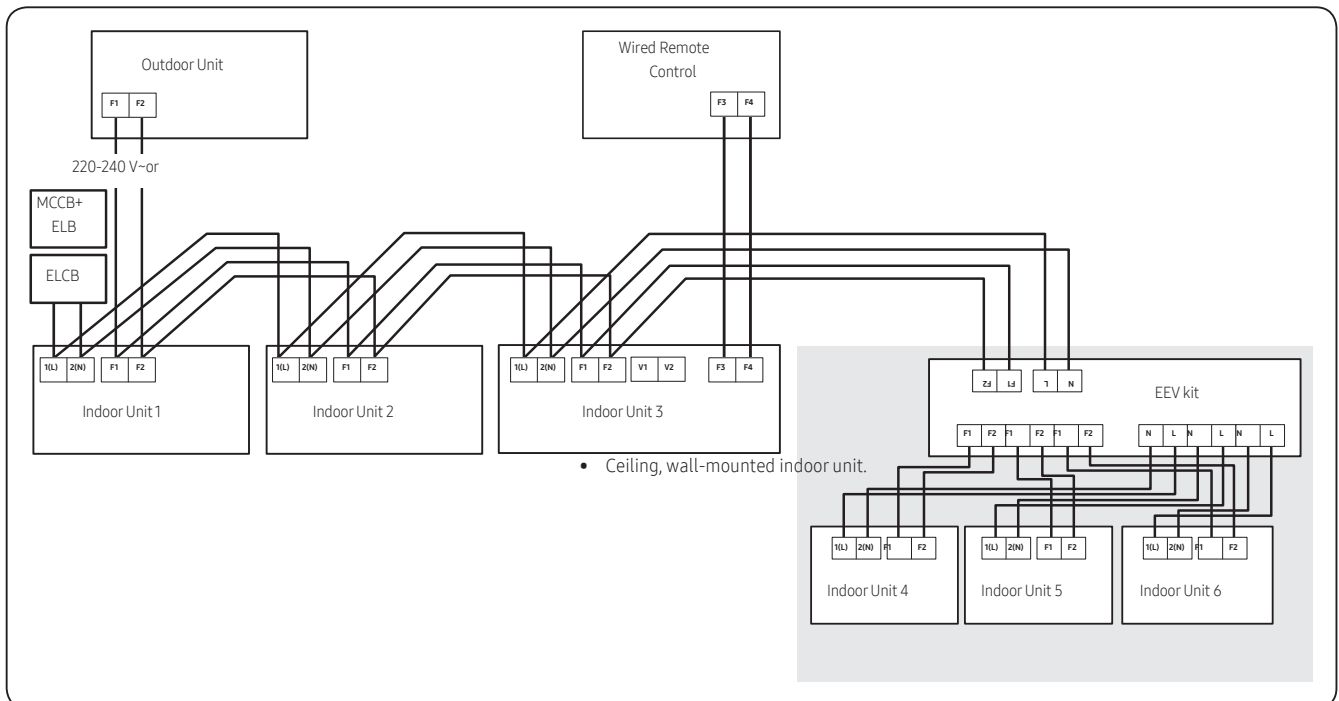
- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 12 for further details.
- DO NOT WALL UP THE DRAIN HOSE CONNECTION! Drain hose connection must be easy accessible and serviceable.

# 10. Installation

## Connecting the power and communication cables

- 1 Before wiring work, you must turn off all power source.
- 2 Indoor unit power should be supplied through the breaker (ELCB or MCCB+ELB) separated by the outdoor power.
- 3 The power cable should be used only copper wires.
- 4 Connect the power cable (1(L), 2(N)) among the units within maximum length and communication cable (F1, F2) each.
- 5 Connect F3, F4(for communication) wires at the back side of the indoor unit when installing the wired remote control.

- ELCB:Earth Leakage Circuit Breaker
- MCCB:Molded Case Circuit Breaker
- ELB:Earth Leakage Breaker



- ELCB : Essential Installation
- The EEV Kit is optional component.

### **WARNING**

- Power off before connecting any wires; Indoor PBA will be damaged while V1, V2, F3, F4 short each other.
- You must connect the earth cable. If earthing is not complete, electric shock or fire may occur.

# 10. Installation

## Specification of electronic wire

| Power supply             | MCCB | ELB or ELCB       | Power cable         | Earth cable         | Communication cable      |
|--------------------------|------|-------------------|---------------------|---------------------|--------------------------|
| Max : 242 V / Min : 198V | XA   | XA, 30 mmA, 0.1 s | 2.5 mm <sup>2</sup> | 2.5 mm <sup>2</sup> | 0.75~1.5 mm <sup>2</sup> |

- Refer to the unit nameplate for rating current.
- Decide the capacity of ELCB(or MCCB+ELB) by below formula.
- 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 )

The capacity of ELCB(or MCCB+ELB) X[A] = 1.25 X 1.1 X ΣAi

- X : The capacity of ELCB(or MCCB+ELB).
- ΣAi : Sum of Rating currents of each indoor unit.
- Refer to each installation manual about the rating current of indoor unit.

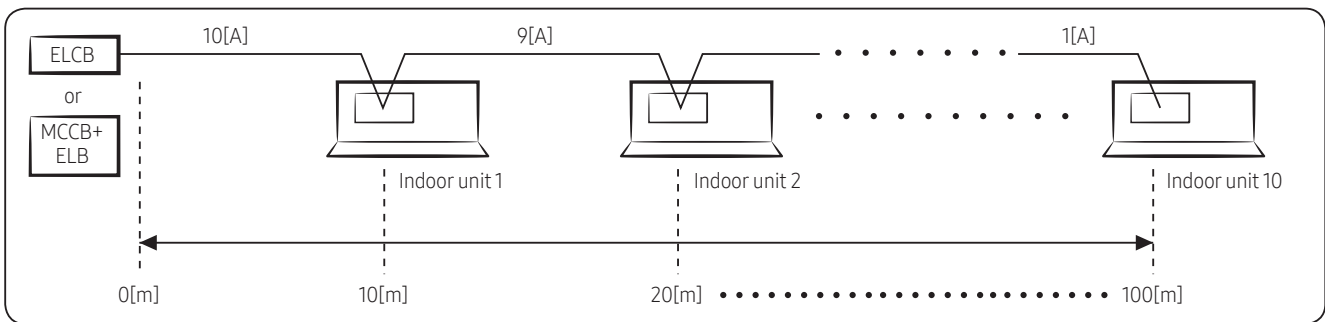
- Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^n \left( \frac{\text{Coef} \times 35.6 \times L_k \times i_k}{1000 \times A_k} \right) < 10\% \text{ of input voltage [V]}$$

- coef: 1.55
- Lk: Distance among each indoor unit [m],
- Ak: Power cable specification [mm<sup>2</sup>]
- ik: Running current of each unit [A]

## Example of Installation

- Total power cable length L = 100(m), Running current of each units 1[A] - Total 10 indoor units were installed



- Apply following equation.

$$\sum_{k=1}^n \left( \frac{\text{Coef} \times 35.6 \times L_k \times i_k}{1000 \times A_k} \right) < 10\% \text{ of input voltage [V]}$$

- Calculation

- Installing with 1 sort wire

$$\begin{aligned} & \left| \begin{array}{c} 2.5 \text{ [mm}^2\text{]} \\ -2.2 \text{ [V]} \end{array} \right| \left| \begin{array}{c} 2.5 \text{ [mm}^2\text{]} \\ -2.2 \text{ [V]} \end{array} \right| \dots \left| \begin{array}{c} 2.5 \text{ [mm}^2\text{]} \\ -2.2 \text{ [V]} \end{array} \right| \left| \begin{array}{c} \text{Within 198V} \\ \text{to 242V} \end{array} \right| \\ 220 \text{ [V]} & \hspace{15em} 208.8 \text{ [V]} : \text{it's okay} \\ & -(2.2 + 2.0 + 1.8 + 1.5 + 1.3 + 1.1 + 0.9 + 0.7 + 0.4 + 0.2) = -11.2 \text{ [V]} \end{aligned}$$

- Installing with 2 different sort wire.

$$\begin{aligned} & \left| \begin{array}{c} 4.0 \text{ [mm}^2\text{]} \\ -1.4 \text{ [V]} \end{array} \right| \left| \begin{array}{c} 4.0 \text{ [mm}^2\text{]} \\ -1.2 \text{ [V]} \end{array} \right| \dots \left| \begin{array}{c} 2.5 \text{ [mm}^2\text{]} \\ -2.2 \text{ [V]} \end{array} \right| \left| \begin{array}{c} \text{Within 198V} \\ \text{to 242V} \end{array} \right| \\ 220 \text{ [V]} & \hspace{15em} 209.5 \text{ [V]} : \text{it's okay} \\ & -(1.4 + 1.2 + 1.8 + 1.5 + 1.3 + 1.1 + 0.9 + 0.7 + 0.4 + 0.2) = -10.5 \text{ [V]} \end{aligned}$$

# 10. Installation

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## CAUTION

- Select the power cable in accordance with relevant local and national regulations.
- Wire size must comply with local and national code.
- For the power cable, use the grade of H07RN-F or H05RN-F materials.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10% of supply rating among whole indoor units.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% 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 in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker. An all pole disconnection from the power supply must be incorporated in the fixed wiring ( $\geq 3$  mm).
- You must keep the cable in a protection tube.
- Keep distances of 50mm or more between power cable and communication cable.
- Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.
- The circuit breaker (ELCB or MCCB+ELB) should be considered more capacity if many indoor units are connected from one breaker.
- Use round pressure terminal for connections to the power terminal block.
- For wiring, use the designated power cable and connect it firmly, then secure to prevent out-side pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

| Tightening torque |           |             |
|-------------------|-----------|-------------|
|                   | N•m       | kgf•cm      |
| M 3.5             | 0.8 ~ 1.2 | 8.0 ~ 12.0  |
| M 4               | 1.2 ~ 1.8 | 12.0 ~ 18.0 |

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