

# RAC

# Technical Data Book

RAC for Europe (INV, R410A, 50Hz, H/P)

**SAMSUNG**

[illegible]

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## Model Names

|     |     |     |     |     |     |     |     |     |       |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| AR  | 18  | J   | S   | P   | F   | A   | WK  | X   | EU    |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | Buyer |

## (1) Classification

|    |         |
|----|---------|
| AR | RAC     |
| AF | FAC/PAC |
| AW | WAC     |

## (2) Capacity

|              |
|--------------|
| x 1000 Btu/h |
|--------------|

## (3) Year

|   |      |
|---|------|
| F | 2013 |
| H | 2014 |
| J | 2015 |

## (4) Product Type

|   |                 |
|---|-----------------|
| C | On/Off R22 CO   |
| P | On/Off R22 HP   |
| R | On/Off R410A CO |
| Q | On/Off R410A HP |
| V | INVERTER CO     |
| S | INVERTER HP     |

## (5) Main Feature

|   |                      |
|---|----------------------|
| S | Virus Doctor         |
| F | No Virus Doctor      |
| P | Wi-fi + Virus Doctor |
| W | Wi-fi                |

## (6) Design Segment

|   |          |
|---|----------|
| D | Better   |
| F | Best     |
| N | Normal   |
| S | Standard |
| P | Maldives |

## (7) Version

|                 |
|-----------------|
| A - Z (1 digit) |
|-----------------|

## (8) Color

|    |                |
|----|----------------|
| WK | Twilight White |
| UR | Blue           |
| GM | Gray           |
| WQ | DA White       |

## (9) Set

|   |              |
|---|--------------|
| N | Indoor Unit  |
| X | Outdoor Unit |
| / | Set          |

# 2 Specifications

## Inverter(HP)

| Type                     |                       |                             |                      | Inverter(HP)            | Inverter(HP)            | Inverter(HP)            | Inverter(HP)           |                |      |
|--------------------------|-----------------------|-----------------------------|----------------------|-------------------------|-------------------------|-------------------------|------------------------|----------------|------|
| Model Name               |                       | Indoor Unit                 |                      | AR09HSFNBWKNET          | AR09HSFNMWKNZE          | AR09HSFSBWKNET          | AR09HSFSBWKXZE         |                |      |
|                          |                       | Outdoor Unit                |                      | AR09HSFNBWKXET          | AR09HSFNMWKXZE          | AR09HSFSBWKXET          | AR09HSFSBWKXZE         |                |      |
| System                   | Mode                  |                             |                      | -                       | Heat Pump               | Heat Pump               | Heat Pump              |                |      |
|                          | Capacity              | Cooling(Min/Std/Max)        |                      | kW                      | 1.30 / 2.50 / 3.30      | 1.30 / 2.50 / 3.30      | 1.30 / 2.50 / 3.30     |                |      |
|                          |                       |                             |                      | Btu/h                   | 4,400 / 8,500 / 11,300  | 4,400 / 8,500 / 11,300  | 4,400 / 8,500 / 11,300 |                |      |
|                          |                       | Heating(Min/Std/Max)        |                      | kW                      | 0.95 / 3.30 / 4.70      | 0.95 / 3.30 / 4.70      | 0.95 / 3.30 / 4.70     |                |      |
|                          | Btu/h                 |                             |                      | 3,200 / 11,300 / 16,000 | 3,200 / 11,300 / 16,000 | 3,200 / 11,300 / 16,000 |                        |                |      |
|                          | Power                 | Power Input (Nominal)       | Cooling(Min/Std/Max) | kW                      | 0.31 / 0.67 / 0.93      | 0.31 / 0.67 / 0.93      | 0.31 / 0.67 / 0.93     |                |      |
|                          |                       |                             | Heating(Min/Std/Max) |                         | 0.25 / 0.91 / 1.40      | 0.25 / 0.91 / 1.40      | 0.25 / 0.91 / 1.40     |                |      |
|                          |                       | Current Input (Nominal)     | Cooling(Min/Std/Max) | A                       | 2.10 / 3.60 / 4.50      | 2.10 / 3.60 / 4.50      | 2.10 / 3.60 / 4.50     |                |      |
|                          |                       |                             | Heating(Min/Std/Max) |                         | 1.70 / 4.40 / 6.80      | 1.70 / 4.40 / 6.80      | 1.70 / 4.40 / 6.80     |                |      |
|                          |                       | MCA                         |                      | A                       | - (MCA)                 | - (MCA)                 | - (MCA)                |                |      |
|                          |                       | MFA                         |                      | A                       | -                       | -                       | -                      |                |      |
|                          | Energy Efficiency     | EER (Nominal Cooling)       |                      | -                       | 3.73                    | 3.73                    | 3.73                   |                |      |
|                          |                       | COP (Nominal Heating)       |                      | -                       | 3.63                    | 3.63                    | 3.63                   |                |      |
|                          |                       | Energy Grade                |                      | -                       | SEER 5.6 (A+)           | SEER 6.0 (A+)           | SEER 5.6 (A+)          |                |      |
|                          |                       |                             |                      | -                       | SCOP 4.0 (A+)           | SCOP 4.0 (A+)           | SCOP 4.0 (A+)          |                |      |
|                          | Piping Connections    | Liquid Pipe                 |                      |                         | Ø, mm                   | 6.35                    | 6.35                   | 6.35           |      |
|                          |                       |                             |                      |                         | Ø, inch                 | 1/4"                    | 1/4"                   | 1/4"           |      |
|                          |                       |                             | Gas Pipe             |                         |                         | Ø, mm                   | 9.52                   | 9.52           | 9.52 |
|                          |                       |                             |                      |                         |                         | Ø, inch                 | 3/8"                   | 3/8"           | 3/8" |
|                          |                       | Installation Limitation     | Max. Length          | m                       | 15 (17)                 | 15 (17)                 | 15 (17)                |                |      |
|                          |                       |                             | Max. Height          | m                       | 8 (8)                   | 8 (8)                   | 8 (8)                  |                |      |
|                          | Field Wiring          | Power Source Wire           |                      | Ø, mm                   | -                       | -                       | -                      |                |      |
|                          |                       | Transmission Cable          |                      | Ø, mm                   | -                       | -                       | -                      |                |      |
|                          | Refrigerant           | Type                        |                      | -                       | R410A                   | R410A                   | R410A                  |                |      |
|                          |                       | Control Method              |                      | -                       | -                       | -                       | -                      |                |      |
|                          |                       | Factory Charging            |                      | kg                      | 0.95                    | 0.95                    | 0.95                   |                |      |
|                          | Indoor Unit           | Power Supply                |                      |                         | Ø, #, V, Hz             | 1,2,220-240,50          | 1,2,220-240,50         | 1,2,220-240,50 |      |
|                          |                       | Fan                         | Type                 |                         | -                       | Cross Flow Fan          | Cross Flow Fan         | Cross Flow Fan |      |
|                          |                       |                             | Motor                | Output                  | W                       | 27 x 1                  | 27 x 1                 | 27 x 1         |      |
|                          |                       |                             |                      |                         | CMM                     | -                       | -                      | -              |      |
|                          |                       |                             | Air Flow Rate        | High/Mid/Low            | l/s                     | -                       | -                      | -              |      |
|                          |                       |                             |                      |                         | mmAq                    | -                       | -                      | -              |      |
| External Static Pressure |                       |                             | Min/Std/Max          | Pa                      | -                       | -                       | -                      |                |      |
|                          |                       | Ø,mm                        |                      | ID18 HOSE               | ID18 HOSE               | ID18 HOSE               |                        |                |      |
| Sound                    |                       | Pressure                    | High/Mid/Low         | dB(A)                   | 36.0 / 19.0             | 36.0 / 19.0             | 36.0 / 19.0            |                |      |
|                          |                       |                             |                      |                         | 54.0                    | 54.0                    | 54.0                   |                |      |
|                          |                       | Power                       | Cooling              |                         |                         |                         |                        |                |      |
| External Dimension       |                       | Net Weight                  |                      | kg                      | 9.50                    | 9.50                    | 9.50                   |                |      |
|                          |                       | Shipping Weight             |                      | kg                      | 11.30                   | 11.30                   | 11.30                  |                |      |
|                          |                       | Net Dimensions (WxHxD)      |                      | mm                      | 826 x 261 x 261         | 826 x 261 x 261         | 826 x 261 x 261        |                |      |
|                          |                       | Shipping Dimensions (WxHxD) |                      | mm                      | 886 x 317 x 335         | 886 x 317 x 335         | 886 x 317 x 335        |                |      |
| Panel Size               |                       | Panel model                 |                      | -                       | -                       | -                       | -                      |                |      |
|                          |                       | Panel Net Weight            |                      | kg                      | -                       | -                       | -                      |                |      |
|                          |                       | Shipping Weight             |                      | kg                      | -                       | -                       | -                      |                |      |
|                          |                       | Net Dimensions (WxHxD)      |                      | mm                      | -                       | -                       | -                      |                |      |
|                          |                       | Shipping Dimensions (WxHxD) |                      | mm                      | -                       | -                       | -                      |                |      |
| Additional Accessories   |                       | Drain pump                  | Drain pump           | -                       | -                       | -                       | -                      |                |      |
|                          |                       |                             | Max. Lifting         | mm/liter/h              | -                       | -                       | -                      |                |      |
|                          |                       | Air Filter                  |                      | -                       | -                       | -                       | -                      |                |      |
| Outdoor Unit             | Power Supply          |                             |                      | Ø, #, V, Hz             | 1,2,220-240,50          | 1,2,220-240,50          | 1,2,220-240,50         |                |      |
|                          | Compressor            | Type                        |                      | -                       | Single BLDC Rotary      | Single BLDC Rotary      | Single BLDC Rotary     |                |      |
|                          |                       | Model                       |                      | -                       | UG9A090FUAER            | UG9A090FUAER            | UG9A090FUAER           |                |      |
|                          |                       | Output                      |                      | kW                      | -                       | -                       | -                      |                |      |
|                          |                       | Oil                         | Type                 | -                       | POE                     | POE                     | POE                    |                |      |
|                          | Fan                   |                             |                      | Air Flow Rate           | CMM                     | 35.00                   | 35.00                  | 35.00          |      |
|                          |                       | Cooling                     | l/s                  | 583.33                  | 583.33                  | 583.33                  |                        |                |      |
|                          | Sound                 |                             | Pressure             | Cooling/Heating         | dB(A)                   | 44.0 / 44.0             | 44.0 / 44.0            | 44.0 / 44.0    |      |
|                          |                       | Cooling                     |                      | 59.0                    |                         | 59.0                    | 59.0                   |                |      |
|                          | External Dimension    | Net Weight                  |                      | kg                      | 29.50                   | 29.50                   | 29.50                  |                |      |
|                          |                       | Shipping Weight             |                      | kg                      | 32.00                   | 32.00                   | 32.00                  |                |      |
|                          |                       | Net Dimensions (WxHxD)      |                      | mm                      | 720 x 548 x 265         | 720 x 548 x 265         | 720 x 548 x 265        |                |      |
|                          |                       | Shipping Dimensions (WxHxD) |                      | mm                      | 844 x 622 x 353         | 844 x 622 x 353         | 844 x 622 x 353        |                |      |
|                          | Operating Temp. Range | Cooling                     |                      | °C                      | -10.0 ~ 46.0            | -10.0 ~ 46.0            | -10.0 ~ 46.0           |                |      |
|                          |                       | Heating                     |                      | °C                      | -15.0 ~ 24.0            | -15.0 ~ 24.0            | -15.0 ~ 24.0           |                |      |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type         |                             |                             |                      | Inverter(HP)    | Inverter(HP)            | Inverter(HP)            | Inverter(HP)            |
|--------------|-----------------------------|-----------------------------|----------------------|-----------------|-------------------------|-------------------------|-------------------------|
| Model Name   |                             | Indoor Unit                 |                      | AR09HSSDAWKNEU  | AR09HSSDBWKNEU          | AR09JSFNCWKNET          | AR09JSFNCWKNEU          |
|              |                             | Outdoor Unit                |                      | AR09HSSDAWKXEU  | AR09HSSDBWKXEU          | AR09JSFNCWKXET          | AR09JSFNCWKXZE          |
| System       | Mode                        |                             |                      | -               | Heat Pump               | Heat Pump               | Heat Pump               |
|              | Capacity                    | Cooling(Min/Std/Max)        |                      | kW              | 0.99 / 2.50 / 3.30      | 0.97 / 2.50 / 3.30      | 1.30 / 2.50 / 3.00      |
|              |                             |                             |                      | Btu/h           | 3,400 / 8,500 / 11,300  | 3,300 / 8,500 / 11,300  | 4,400 / 8,500 / 10,200  |
|              |                             | Heating(Min/Std/Max)        |                      | kW              | 0.85 / 3.20 / 6.00      | 0.97 / 3.20 / 5.40      | 0.93 / 3.20 / 4.00      |
|              |                             |                             |                      | Btu/h           | 2,900 / 10,900 / 20,500 | 3,300 / 10,900 / 18,400 | 3,200 / 10,900 / 13,600 |
|              | Power                       | Power Input (Nominal)       | Cooling(Min/Std/Max) | kW              | 0.21 / 0.52 / 0.78      | 0.26 / 0.59 / 0.79      | 0.31 / 0.70 / 0.88      |
|              |                             |                             | Heating(Min/Std/Max) |                 | 0.18 / 0.67 / 1.85      | 0.22 / 0.78 / 1.55      | 0.25 / 0.93 / 1.23      |
|              |                             | Current Input (Nominal)     | Cooling(Min/Std/Max) | A               | 1.40 / 2.60 / 3.70      | 1.70 / 3.20 / 3.80      | 2.10 / 3.40 / 4.40      |
|              |                             |                             | Heating(Min/Std/Max) |                 | 1.20 / 3.30 / 8.50      | 1.30 / 3.80 / 7.00      | 1.70 / 4.50 / 5.90      |
|              |                             | MCA                         |                      | A               | - (MCA)                 | - (MCA)                 | - (MCA)                 |
|              |                             | MFA                         |                      | A               | -                       | -                       | -                       |
|              | Energy Efficiency           | EER (Nominal Cooling)       |                      | -               | 4.81                    | 4.24                    | 3.57                    |
|              |                             | COP (Nominal Heating)       |                      | -               | 4.78                    | 4.10                    | 3.44                    |
|              |                             | Energy Grade                |                      | -               | SEER 10.1 (A+++)        | SEER 7.1 (A++)          | SEER 6.1 (A++)          |
|              |                             |                             |                      | -               | SCOP 5.1 (A+++)         | SCOP 4.6 (A++)          | SCOP 3.8 (A)            |
|              | Piping Connections          | Liquid Pipe                 |                      | Ø, mm           | 6.35                    | 6.35                    | 6.35                    |
|              |                             |                             |                      | Ø, inch         | 1/4"                    | 1/4"                    | 1/4"                    |
|              |                             | Gas Pipe                    |                      | Ø, mm           | 9.52                    | 9.52                    | 9.52                    |
|              |                             |                             |                      | Ø, inch         | 3/8"                    | 3/8"                    | 3/8"                    |
|              |                             | Installation Limitation     | Max. Length          | m               | 15 (17)                 | 15 (17)                 | 15 (17)                 |
|              |                             |                             | Max. Height          | m               | 8 (8)                   | 8 (8)                   | 8 (8)                   |
|              | Field Wiring                | Power Source Wire           |                      | Ø, mm           | -                       | -                       | -                       |
|              |                             | Transmission Cable          |                      | Ø, mm           | -                       | -                       | -                       |
|              | Refrigerant                 | Type                        |                      | -               | R410A                   | R410A                   | R410A                   |
|              |                             | Control Method              |                      | -               | -                       | -                       | -                       |
|              |                             | Factory Charging            |                      | kg              | 1.10                    | 1.10                    | 0.84                    |
| Indoor Unit  | Power Supply                |                             |                      | Ø, #, V, Hz     | 1,2,220-240,50          | 1,2,220-240,50          | 1,2,220-240,50          |
|              | Fan                         | Type                        |                      | -               | Cross Flow Fan          | Cross Flow Fan          | Cross Flow Fan          |
|              |                             | Motor                       | Output               | W               | 27 x 1                  | 27 x 1                  | 1                       |
|              |                             |                             | Air Flow Rate        | High/Mid/Low    | CMM                     | -                       | -                       |
|              |                             | External Static Pressure    | Min/Std/Max          | l/s             | -                       | -                       | -                       |
|              |                             |                             |                      | mmAq            | -                       | -                       | -                       |
|              | Pa                          |                             | -                    | -               | -                       |                         |                         |
|              | Drain                       | Drain Pipe                  |                      | Ø,mm            | ID18 HOSE               | ID18 HOSE               | ID18 HOSE               |
|              | Sound                       | Pressure                    | High/Mid/Low         | dB(A)           | 38.0 / 16.0             | 38.0 / 16.0             | 36.0 / 19.0             |
|              |                             |                             | Cooling              |                 | 56.0                    | 54.0                    | 56.0                    |
|              |                             | External Dimension          | Net Weight           |                 | kg                      | 11.50                   | 10.20                   |
|              | Shipping Weight             |                             | kg                   | 14.00           | 12.50                   | 9.50                    |                         |
|              | Net Dimensions (WxHxD)      |                             | mm                   | 896 x 261 x 261 | 826 x 261 x 261         | 750 x 249 x 246         |                         |
|              | Shipping Dimensions (WxHxD) |                             | mm                   | 956 x 317 x 335 | 886 x 317 x 335         | 800 x 298 x 302         |                         |
|              | Panel Size                  | Panel model                 |                      | -               | -                       | -                       | -                       |
|              |                             | Panel Net Weight            |                      | kg              | -                       | -                       | -                       |
|              |                             | Shipping Weight             |                      | kg              | -                       | -                       | -                       |
|              |                             | Net Dimensions (WxHxD)      |                      | mm              | -                       | -                       | -                       |
|              |                             | Shipping Dimensions (WxHxD) |                      | mm              | -                       | -                       | -                       |
|              | Additional Accessories      | Drain pump                  | Drain pump           | -               | -                       | -                       | -                       |
|              |                             |                             | Max. Lifting         | mm/liter/h      | -                       | -                       | -                       |
| Air Filter   |                             | -                           | -                    | -               | -                       |                         |                         |
| Outdoor Unit | Power Supply                |                             |                      | Ø, #, V, Hz     | 1,2,220-240,50          | 1,2,220-240,50          | 1,2,220-240,50          |
|              | Compressor                  | Type                        |                      | -               | Single BLDC Rotary      | Single BLDC Rotary      | Single BLDC Rotary      |
|              |                             | Model                       |                      | -               | UG9T115FUAEQSS          | UG9T115FUAEQSS          | UG9A090LNAER            |
|              |                             | Output                      |                      | kW              | -                       | -                       | -                       |
|              |                             | Oil                         | Type                 | -               | POE                     | POE                     | -                       |
|              | Air Flow Rate               |                             | Cooling              | CMM             | 40.00                   | 40.00                   | 35.00                   |
|              | Sound                       | Pressure                    | Cooling              | l/s             | 666.67                  | 666.67                  | 583.33                  |
|              |                             |                             | Heating              | dB(A)           | 45.0 / 45.0             | 45.0 / 45.0             | 45.0 / 45.0             |
|              |                             | Power                       | Cooling              |                 | 59.0                    | 59.0                    | 59.0                    |
|              | External Dimension          | Net Weight                  |                      | kg              | 35.00                   | 34.50                   | 29.00                   |
|              |                             | Shipping Weight             |                      | kg              | 38.00                   | 37.50                   | 32.00                   |
|              |                             | Net Dimensions (WxHxD)      |                      | mm              | 790 x 548 x 285         | 790 x 548 x 285         | 720 x 548 x 265         |
|              |                             | Shipping Dimensions (WxHxD) |                      | mm              | 926 x 640 x 384         | 926 x 640 x 384         | 844 x 622 x 353         |
|              | Operating Temp. Range       | Cooling                     |                      | °C              | -10.0 ~ 46.0            | -10.0 ~ 46.0            | -10.0 ~ 46.0            |
|              |                             | Heating                     |                      | °C              | -15.0 ~ 24.0            | -15.0 ~ 24.0            | -15.0 ~ 24.0            |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type                  |                        |                             |                      | Inverter(HP)   | Inverter(HP)            | Inverter(HP)            | Inverter(HP)            |
|-----------------------|------------------------|-----------------------------|----------------------|----------------|-------------------------|-------------------------|-------------------------|
| Model Name            |                        | Indoor Unit                 |                      | AR09JSFSBURNET | AR09JSPFAWKNEU          | AR09JSPFBWKNEU          | AR12HSFNBWKNET          |
|                       |                        | Outdoor Unit                |                      | AR09JSFSBURXET | AR09JSPFAWKXEU          | AR09JSPFBWKXEU          | AR12HSFNBWKXET          |
| System                | Mode                   |                             |                      | -              | Heat Pump               | Heat Pump               | Heat Pump               |
|                       | Capacity               | Cooling(Min/Std/Max)        |                      | kW             | 1.30 / 2.50 / 3.00      | 0.97 / 2.50 / 3.30      | 0.97 / 2.50 / 3.30      |
|                       |                        |                             |                      | Btu/h          | 4,400 / 8,500 / 10,200  | 3,300 / 8,500 / 11,300  | 3,300 / 8,500 / 11,300  |
|                       |                        | Heating(Min/Std/Max)        |                      | kW             | 0.93 / 3.20 / 4.00      | 0.85 / 3.20 / 6.00      | 0.97 / 3.20 / 5.40      |
|                       |                        |                             |                      | Btu/h          | 3,200 / 10,900 / 13,600 | 2,900 / 10,900 / 20,500 | 3,300 / 10,900 / 18,400 |
|                       | Power                  | Power Input (Nominal)       | Cooling(Min/Std/Max) | kW             | 0.31 / 0.70 / 0.88      | 0.22 / 0.55 / 0.78      | 0.26 / 0.59 / 0.79      |
|                       |                        |                             | Heating(Min/Std/Max) |                | 0.25 / 0.93 / 1.23      | 0.18 / 0.77 / 1.85      | 0.22 / 0.78 / 1.55      |
|                       |                        | Current Input (Nominal)     | Cooling(Min/Std/Max) | A              | 2.10 / 3.40 / 4.40      | 1.40 / 2.70 / 3.70      | 1.70 / 3.20 / 3.80      |
|                       |                        |                             | Heating(Min/Std/Max) |                | 1.70 / 4.50 / 5.90      | 1.20 / 3.60 / 8.20      | 1.30 / 3.80 / 7.00      |
|                       |                        | MCA                         |                      | A              | - (MCA)                 | - (MCA)                 | - (MCA)                 |
|                       |                        | MFA                         |                      | A              | -                       | -                       | -                       |
|                       | Energy Efficiency      | EER (Nominal Cooling)       |                      | -              | 3.57                    | 4.55                    | 4.24                    |
|                       |                        | COP (Nominal Heating)       |                      | -              | 3.44                    | 4.16                    | 4.10                    |
|                       |                        | Energy Grade                |                      | -              | SEER 6.1 (A++)          | SEER 8.5 (A+++)         | SEER 7.1 (A++)          |
|                       |                        |                             |                      | -              | SCOP 3.8 (A)            | SCOP 4.6 (A++)          | SCOP 4.6 (A++)          |
|                       | Piping Connections     | Liquid Pipe                 |                      | Ø, mm          | 6.35                    | 6.35                    | 6.35                    |
|                       |                        |                             |                      | Ø, inch        | 1/4"                    | 1/4"                    | 1/4"                    |
|                       |                        | Gas Pipe                    |                      | Ø, mm          | 9.52                    | 9.52                    | 9.52                    |
|                       |                        |                             |                      | Ø, inch        | 3/8"                    | 3/8"                    | 3/8"                    |
|                       |                        | Installation Limitation     | Max. Length          | m              | 15 (17)                 | 15 (17)                 | 15 (17)                 |
|                       |                        |                             | Max. Height          | m              | 8 (8)                   | 8 (8)                   | 8 (8)                   |
|                       | Field Wiring           | Power Source Wire           |                      | Ø, mm          | -                       | -                       | -                       |
|                       |                        | Transmission Cable          |                      | Ø, mm          | -                       | -                       | -                       |
|                       | Refrigerant            | Type                        |                      | -              | R410A                   | R410A                   | R410A                   |
|                       |                        | Control Method              |                      | -              | -                       | -                       | -                       |
|                       |                        | Factory Charging            |                      | kg             | 0.84                    | 1.10                    | 1.10                    |
| Indoor Unit           | Power Supply           |                             |                      | Ø, #, V, Hz    | 1,2,220-240,50          | 1,2,220-240,50          | 1,2,220-240,50          |
|                       | Fan                    | Type                        |                      | -              | Cross Flow Fan          | Cross Flow Fan          | Cross Flow Fan          |
|                       |                        | Motor                       | Output               | W              | 1                       | 1                       | 27 x 1                  |
|                       |                        | Air Flow Rate               |                      | CMM            | -                       | -                       | -                       |
|                       |                        |                             |                      | l/s            | -                       | -                       | -                       |
|                       |                        | External Static Pressure    |                      | mmAq           | -                       | -                       | -                       |
|                       | Drain                  | Drain Pipe                  |                      | Ø,mm           | ID18 HOSE               | ID18 HOSE               | ID18 HOSE               |
|                       |                        | Pressure                    | High/Mid/Low         | dB(A)          | 36.0 / 19.0             | 38.0 / 16.0             | 38.0 / 16.0             |
|                       |                        | Power                       | Cooling              |                | 56.0                    | 56.0                    | 57.0                    |
|                       | External Dimension     | Net Weight                  |                      | kg             | 7.80                    | 12.50                   | 12.00                   |
|                       |                        | Shipping Weight             |                      | kg             | 9.50                    | 15.00                   | 14.50                   |
|                       |                        | Net Dimensions (WxHxD)      |                      | mm             | 750 x 249 x 246         | 936 x 267 x 264         | 936 x 267 x 264         |
|                       |                        | Shipping Dimensions (WxHxD) |                      | mm             | 800 x 298 x 302         | 1,020 x 326 x 345       | 1,020 x 326 x 345       |
|                       | Panel Size             | Panel model                 |                      | -              | -                       | -                       | -                       |
|                       |                        | Panel Net Weight            |                      | kg             | -                       | -                       | -                       |
|                       |                        | Shipping Weight             |                      | kg             | -                       | -                       | -                       |
|                       |                        | Net Dimensions (WxHxD)      |                      | mm             | -                       | -                       | -                       |
|                       |                        | Shipping Dimensions (WxHxD) |                      | mm             | -                       | -                       | -                       |
|                       | Additional Accessories | Drain pump                  | Drain pump           | -              | -                       | -                       | -                       |
|                       |                        | Max. Lifting                | Max. Lifting         | mm/liter/h     | -                       | -                       | -                       |
|                       | Air Filter             |                             |                      | -              | -                       | -                       | -                       |
|                       | Outdoor Unit           | Power Supply                |                      |                | Ø, #, V, Hz             | 1,2,220-240,50          | 1,2,220-240,50          |
| Compressor            |                        | Type                        |                      | -              | Single BLDC Rotary      | Single BLDC Rotary      | Single BLDC Rotary      |
|                       |                        | Model                       |                      | -              | UG9A090LNAER            | UG9T115FUAEQ            | UG9A090FUAEQ            |
|                       |                        | Output                      |                      | kW             | -                       | -                       | -                       |
|                       |                        | Oil                         | Type                 | -              | -                       | POE                     | POE                     |
| Fan                   |                        | Air Flow Rate               |                      | CMM            | 35.00                   | 40.00                   | 35.00                   |
|                       |                        |                             |                      | l/s            | 583.33                  | 666.67                  | 583.33                  |
| Sound                 |                        | Pressure                    | Cooling/Heating      | dB(A)          | 45.0 / 45.0             | 45.0 / 45.0             | 45.0 / 45.0             |
|                       |                        | Power                       | Cooling              |                | 59.0                    | 59.0                    | 62.0                    |
| External Dimension    |                        | Net Weight                  |                      | kg             | 29.00                   | 35.00                   | 29.50                   |
|                       |                        | Shipping Weight             |                      | kg             | 32.00                   | 38.00                   | 37.50                   |
|                       |                        | Net Dimensions (WxHxD)      |                      | mm             | 720 x 548 x 265         | 790 x 548 x 285         | 790 x 548 x 285         |
|                       |                        | Shipping Dimensions (WxHxD) |                      | mm             | 844 x 622 x 353         | 926 x 640 x 384         | 926 x 640 x 384         |
| Operating Temp. Range |                        | Cooling                     |                      | °C             | -10.0 ~ 46.0            | -10.0 ~ 46.0            | -10.0 ~ 46.0            |
|                       |                        | Heating                     |                      | °C             | -15.0 ~ 24.0            | -15.0 ~ 24.0            | -15.0 ~ 24.0            |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type                     |                       |                             |                       | Inverter(HP)   | Inverter(HP)            | Inverter(HP)            | Inverter(HP)            |                |
|--------------------------|-----------------------|-----------------------------|-----------------------|----------------|-------------------------|-------------------------|-------------------------|----------------|
| Model Name               |                       | Indoor Unit                 |                       | AR12HSFNMWKNZE | AR12HSFSAWKNET          | AR12HSFSAWKNZE          | AR12HSSDAWKNEU          |                |
|                          |                       | Outdoor Unit                |                       | AR12HSFNMWKXZE | AR12HSFSAWKXET          | AR12HSFSAWKXZE          | AR12HSSDAWKXEU          |                |
| System                   | Mode                  |                             |                       | -              | Heat Pump               | Heat Pump               | Heat Pump               |                |
|                          | Capacity              | Cooling(Min/Std/Max)        |                       | kW             | 1.30 / 3.50 / 4.00      | 1.30 / 3.50 / 4.00      | 1.30 / 3.50 / 4.00      |                |
|                          |                       |                             |                       | Btu/h          | 4,400 / 11,900 / 13,600 | 4,400 / 11,900 / 13,600 | 4,400 / 11,900 / 13,600 |                |
|                          |                       | Heating(Min/Std/Max)        |                       | kW             | 0.95 / 4.00 / 5.10      | 0.95 / 4.00 / 5.10      | 0.95 / 4.00 / 5.10      |                |
|                          | Power                 | Power Input (Nominal)       | Cooling(Min/Std/Max)  | kW             | 0.31 / 1.03 / 1.21      | 0.31 / 1.03 / 1.21      | 0.31 / 1.03 / 1.21      |                |
|                          |                       |                             | Heating(Min/Std/Max)  |                | 0.25 / 1.10 / 1.46      | 0.25 / 1.10 / 1.46      | 0.25 / 1.10 / 1.46      |                |
|                          |                       | Current Input (Nominal)     | Cooling(Min/Std/Max)  | A              | 2.10 / 5.00 / 6.00      | 2.10 / 5.00 / 6.00      | 2.10 / 5.00 / 6.00      |                |
|                          |                       |                             | Heating(Min/Std/Max)  |                | 1.70 / 5.50 / 7.00      | 1.70 / 5.50 / 7.00      | 1.70 / 5.50 / 7.00      |                |
|                          |                       | MCA                         |                       | A              | - (MCA)                 | - (MCA)                 | - (MCA)                 |                |
|                          |                       | MFA                         |                       | A              | -                       | -                       | -                       |                |
|                          |                       | Energy Efficiency           | EER (Nominal Cooling) |                | -                       | 3.40                    | 3.40                    | 3.40           |
|                          | COP (Nominal Heating) |                             | -                     | 3.64           | 3.64                    | 3.64                    |                         |                |
|                          | Energy Grade          |                             | -                     | SEER 6.0 (A+)  | SEER 5.6 (A+)           | SEER 5.6 (A+)           |                         |                |
|                          |                       |                             | -                     | SCOP 4.0 (A+)  | SCOP 4.0 (A+)           | SCOP 4.0 (A+)           |                         |                |
|                          | Piping Connections    | Liquid Pipe                 | Ø, mm                 |                | 6.35                    | 6.35                    | 6.35                    |                |
|                          |                       |                             | Ø, inch               |                | 1/4"                    | 1/4"                    | 1/4"                    |                |
|                          |                       |                             | Gas Pipe              | Ø, mm          |                         | 9.52                    | 9.52                    | 9.52           |
|                          |                       |                             |                       | Ø, inch        |                         | 3/8"                    | 3/8"                    | 3/8"           |
|                          |                       | Installation Limitation     | Max. Length           | m              | 15 (17)                 | 15 (17)                 | 15 (17)                 |                |
|                          |                       |                             | Max. Height           | m              | 8 (8)                   | 8 (8)                   | 8 (8)                   |                |
|                          | Field Wiring          | Power Source Wire           |                       | Ø, mm          | -                       | -                       | -                       |                |
|                          |                       | Transmission Cable          |                       | Ø, mm          | -                       | -                       | -                       |                |
|                          | Refrigerant           | Type                        |                       | -              | R410A                   | R410A                   | R410A                   |                |
|                          |                       | Control Method              |                       | -              | -                       | -                       | -                       |                |
|                          |                       | Factory Charging            |                       | kg             | 0.95                    | 0.95                    | 0.95                    |                |
|                          | Indoor Unit           | Power Supply                |                       |                | Ø, #, V, Hz             | 1,2,220-240,50          | 1,2,220-240,50          | 1,2,220-240,50 |
|                          |                       | Fan                         | Type                  |                | -                       | Cross Flow Fan          | Cross Flow Fan          | Cross Flow Fan |
|                          |                       |                             | Motor                 | Output         | W                       | 27 x 1                  | 27 x 1                  | 27 x 1         |
|                          |                       |                             |                       |                | CMM                     | -                       | -                       | -              |
|                          |                       |                             | Air Flow Rate         |                | High/Mid/Low            | l/s                     | -                       | -              |
| External Static Pressure |                       |                             | Min/Std/Max           | mmAq           | -                       | -                       | -                       |                |
|                          |                       | Pa                          |                       | -              | -                       | -                       |                         |                |
| Drain                    |                       | Drain Pipe                  |                       | Ø,mm           | ID18 HOSE               | ID18 HOSE               | ID18 HOSE               |                |
| Sound                    |                       | Pressure                    | High/Mid/Low          | dB(A)          | 37.0 / 19.0             | 37.0 / 19.0             | 40.0 / 16.0             |                |
|                          |                       | Power                       | Cooling               |                | 56.0                    | 56.0                    | 58.0                    |                |
| External Dimension       |                       | Net Weight                  |                       | kg             | 9.50                    | 9.50                    | 11.50                   |                |
|                          |                       | Shipping Weight             |                       | kg             | 11.30                   | 11.30                   | 14.00                   |                |
|                          |                       | Net Dimensions (WxHxD)      |                       | mm             | 826 x 261 x 261         | 826 x 261 x 261         | 896 x 261 x 261         |                |
|                          |                       | Shipping Dimensions (WxHxD) |                       | mm             | 886 x 317 x 335         | 886 x 317 x 335         | 956 x 317 x 335         |                |
| Panel Size               |                       | Panel model                 |                       | -              | -                       | -                       | -                       |                |
|                          |                       | Panel Net Weight            |                       | kg             | -                       | -                       | -                       |                |
|                          |                       | Shipping Weight             |                       | kg             | -                       | -                       | -                       |                |
|                          |                       | Net Dimensions (WxHxD)      |                       | mm             | -                       | -                       | -                       |                |
|                          |                       | Shipping Dimensions (WxHxD) |                       | mm             | -                       | -                       | -                       |                |
| Additional Accessories   |                       | Drain pump                  | Drain pump            | -              | -                       | -                       | -                       |                |
|                          |                       |                             | Max. Lifting          | mm/liter/h     | -                       | -                       | -                       |                |
| Air Filter               |                       |                             | -                     | -              | -                       | -                       |                         |                |
| Outdoor Unit             | Power Supply          |                             |                       | Ø, #, V, Hz    | 1,2,220-240,50          | 1,2,220-240,50          | 1,2,220-240,50          |                |
|                          | Compressor            | Type                        |                       | -              | Single BLDC Rotary      | Single BLDC Rotary      | Single BLDC Rotary      |                |
|                          |                       | Model                       |                       | -              | UG9A090FUAER            | UG9A090FUAER            | UG9A090FUAER            |                |
|                          |                       | Output                      |                       | kW             | -                       | -                       | -                       |                |
|                          | Fan                   | Oil                         | Type                  | -              | POE                     | POE                     | POE                     |                |
|                          |                       |                             |                       | -              | POE                     | POE                     | POE                     |                |
|                          |                       | Air Flow Rate               |                       | Cooling        | CMM                     | 35.00                   | 35.00                   | 40.00          |
|                          | Sound                 | Pressure                    | Cooling/Heating       | dB(A)          | 583.33                  | 583.33                  | 666.67                  |                |
|                          |                       | Power                       | Cooling               |                | 46.0 / 46.0             | 46.0 / 46.0             | 46.0 / 46.0             |                |
|                          | External Dimension    | Net Weight                  |                       | kg             | 29.50                   | 29.50                   | 35.00                   |                |
|                          |                       | Shipping Weight             |                       | kg             | 32.00                   | 32.00                   | 38.00                   |                |
|                          |                       | Net Dimensions (WxHxD)      |                       | mm             | 720 x 548 x 265         | 720 x 548 x 265         | 790 x 548 x 285         |                |
|                          |                       | Shipping Dimensions (WxHxD) |                       | mm             | 844 x 622 x 353         | 844 x 622 x 353         | 926 x 640 x 384         |                |
|                          |                       | Operating Temp. Range       | Cooling               |                | °C                      | -10.0 ~ 46.0            | -10.0 ~ 46.0            | -10.0 ~ 46.0   |
|                          | Heating               |                             | °C                    | -15.0 ~ 24.0   | -15.0 ~ 24.0            | -15.0 ~ 24.0            |                         |                |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type                  |                        |                             |                      | Inverter(HP) |                    | Inverter(HP)            |                    | Inverter(HP)            |                    | Inverter(HP)            |                    |                         |         |  |
|-----------------------|------------------------|-----------------------------|----------------------|--------------|--------------------|-------------------------|--------------------|-------------------------|--------------------|-------------------------|--------------------|-------------------------|---------|--|
| Model Name            |                        | Indoor Unit                 |                      |              | AR12HSSDBWKNEU     |                         | AR12JSFNCWKNET     |                         | AR12JSFNCWKNEZ     |                         | AR12JSFSBURNET     |                         |         |  |
|                       |                        | Outdoor Unit                |                      |              | AR12HSSDBWKXEU     |                         | AR12JSFNCWKXET     |                         | AR12JSFNCWKXZE     |                         | AR12JSFSBURNXET    |                         |         |  |
| System                | Mode                   |                             |                      |              | -                  | Heat Pump               |                    | Heat Pump               |                    | Heat Pump               |                    | Heat Pump               |         |  |
|                       | Capacity               | Cooling(Min/Std/Max)        |                      |              | kW                 | 0.97 / 3.50 / 4.00      |                    | 1.30 / 3.50 / 3.80      |                    | 1.30 / 3.50 / 3.80      |                    | 1.30 / 3.50 / 3.80      |         |  |
|                       |                        |                             |                      |              | Btu/h              | 3,300 / 11,900 / 13,600 |                    | 4,400 / 11,900 / 13,000 |                    | 4,400 / 11,900 / 13,000 |                    | 4,400 / 11,900 / 13,000 |         |  |
|                       |                        | Heating(Min/Std/Max)        |                      |              | kW                 | 0.97 / 4.00 / 5.80      |                    | 1.05 / 3.50 / 4.80      |                    | 1.05 / 3.50 / 4.80      |                    | 1.05 / 3.50 / 4.80      |         |  |
|                       |                        |                             |                      |              | Btu/h              | 3,300 / 13,600 / 19,800 |                    | 3,600 / 11,900 / 16,400 |                    | 3,600 / 11,900 / 16,400 |                    | 3,600 / 11,900 / 16,400 |         |  |
|                       | Power                  | Power Input (Nominal)       | Cooling(Min/Std/Max) |              | kW                 | 0.26 / 0.97 / 1.15      |                    | 0.31 / 1.13 / 1.21      |                    | 0.31 / 1.13 / 1.21      |                    | 0.31 / 1.13 / 1.21      |         |  |
|                       |                        |                             | Heating(Min/Std/Max) |              |                    | 0.22 / 1.05 / 1.70      |                    | 0.25 / 1.10 / 1.70      |                    | 0.25 / 1.10 / 1.70      |                    | 0.25 / 1.10 / 1.70      |         |  |
|                       |                        | Current Input (Nominal)     | Cooling(Min/Std/Max) |              | A                  | 1.70 / 4.80 / 5.20      |                    | 2.10 / 5.40 / 6.00      |                    | 2.10 / 5.40 / 6.00      |                    | 2.10 / 5.40 / 6.00      |         |  |
|                       |                        |                             | Heating(Min/Std/Max) |              |                    | 1.30 / 5.00 / 8.20      |                    | 1.70 / 5.50 / 8.00      |                    | 1.70 / 5.50 / 8.00      |                    | 1.70 / 5.50 / 8.00      |         |  |
|                       |                        | MCA                         |                      |              |                    | A                       | - (MCA)            |                         | - (MCA)            |                         | - (MCA)            |                         | - (MCA) |  |
|                       |                        | MFA                         |                      |              |                    | A                       | -                  |                         | -                  |                         | -                  |                         | -       |  |
|                       | Energy Efficiency      | EER (Nominal Cooling)       |                      |              | -                  | 3.61                    |                    | 3.10                    |                    | 3.10                    |                    | 3.10                    |         |  |
|                       |                        | COP (Nominal Heating)       |                      |              | -                  | 3.81                    |                    | 3.18                    |                    | 3.18                    |                    | 3.18                    |         |  |
|                       |                        | Energy Grade                |                      |              | -                  | SEER 6.7 (A++)          |                    | SEER 6.1 (A++)          |                    | SEER 6.1 (A++)          |                    | SEER 6.1 (A++)          |         |  |
|                       |                        |                             |                      |              | -                  | SCOP 4.6 (A++)          |                    | SCOP 3.8 (A)            |                    | SCOP 3.8 (A)            |                    | SCOP 3.8 (A)            |         |  |
|                       | Piping Connections     | Liquid Pipe                 |                      |              | Ø, mm              | 6.35                    |                    | 6.35                    |                    | 6.35                    |                    | 6.35                    |         |  |
|                       |                        |                             |                      |              | Ø, inch            | 1/4"                    |                    | 1/4"                    |                    | 1/4"                    |                    | 1/4"                    |         |  |
|                       |                        |                             | Gas Pipe             |              |                    | Ø, mm                   | 9.52               |                         | 9.52               |                         | 9.52               |                         | 9.52    |  |
|                       |                        |                             |                      |              |                    | Ø, inch                 | 3/8"               |                         | 3/8"               |                         | 3/8"               |                         | 3/8"    |  |
|                       |                        | Installation Limitation     | Max. Length          | m            | 15 (17)            |                         | 15 (17)            |                         | 15 (17)            |                         | 15 (17)            |                         | 15 (17) |  |
|                       |                        |                             | Max. Height          | m            | 8 (8)              |                         | 8 (8)              |                         | 8 (8)              |                         | 8 (8)              |                         | 8 (8)   |  |
|                       | Field Wiring           | Power Source Wire           |                      |              | Ø, mm              | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | Transmission Cable          |                      |              | Ø, mm              | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       | Refrigerant            | Type                        |                      |              | -                  | R410A                   |                    | R410A                   |                    | R410A                   |                    | R410A                   |         |  |
|                       |                        | Control Method              |                      |              | -                  | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | Factory Charging            |                      |              | kg                 | 1.10                    |                    | 0.84                    |                    | 0.84                    |                    | 0.84                    |         |  |
| Indoor Unit           | Power Supply           |                             |                      | Ø, #, V, Hz  | 1,2,220-240,50     |                         | 1,2,220-240,50     |                         | 1,2,220-240,50     |                         | 1,2,220-240,50     |                         |         |  |
|                       | Fan                    | Type                        |                      | -            | Cross Flow Fan     |                         | Cross Flow Fan     |                         | Cross Flow Fan     |                         | Cross Flow Fan     |                         |         |  |
|                       |                        | Motor                       | Output               | W            | 27 x 1             |                         | 1                  |                         | 1                  |                         | 1                  |                         |         |  |
|                       |                        |                             |                      | CMM          | -                  |                         | -                  |                         | -                  |                         | -                  |                         |         |  |
|                       |                        | Air Flow Rate               |                      | High/Mid/Low | l/s                | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | External Static Pressure    |                      | Min/Std/Max  | mmAq               | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        |                             |                      | Pa           | -                  |                         | -                  |                         | -                  |                         | -                  |                         |         |  |
|                       | Drain                  | Drain Pipe                  |                      |              | Ø,mm               | ID18 HOSE               |                    | ID18 HOSE               |                    | ID18 HOSE               |                    | ID18 HOSE               |         |  |
|                       | Sound                  | Pressure                    | High/Mid/Low         | dB(A)        | 39.0 / 16.0        |                         | 39.0 / 19.0        |                         | 39.0 / 19.0        |                         | 39.0 / 19.0        |                         |         |  |
|                       |                        | Power                       | Cooling              |              | 58.0               |                         | 58.0               |                         | 58.0               |                         | 58.0               |                         |         |  |
|                       | External Dimension     | Net Weight                  |                      |              | kg                 | 10.20                   |                    | 7.80                    |                    | 7.80                    |                    | 7.80                    |         |  |
|                       |                        | Shipping Weight             |                      |              | kg                 | 12.50                   |                    | 9.50                    |                    | 9.50                    |                    | 9.50                    |         |  |
|                       |                        | Net Dimensions (WxHxD)      |                      |              | mm                 | 826 x 261 x 261         |                    | 750 x 249 x 246         |                    | 750 x 249 x 246         |                    | 750 x 249 x 246         |         |  |
|                       |                        | Shipping Dimensions (WxHxD) |                      |              | mm                 | 886 x 317 x 335         |                    | 800 x 298 x 302         |                    | 800 x 298 x 302         |                    | 800 x 298 x 302         |         |  |
|                       | Panel Size             | Panel model                 |                      |              | -                  | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | Panel Net Weight            |                      |              | kg                 | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | Shipping Weight             |                      |              | kg                 | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | Net Dimensions (WxHxD)      |                      |              | mm                 | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        | Shipping Dimensions (WxHxD) |                      |              | mm                 | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       | Additional Accessories | Drain pump                  | Drain pump           |              | -                  | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       |                        |                             | Max. Lifting         |              | mm/liter/h         | -                       |                    | -                       |                    | -                       |                    | -                       |         |  |
|                       | Air Filter             |                             |                      | -            | -                  |                         | -                  |                         | -                  |                         | -                  |                         | -       |  |
|                       | Outdoor Unit           | Power Supply                |                      |              | Ø, #, V, Hz        | 1,2,220-240,50          |                    | 1,2,220-240,50          |                    | 1,2,220-240,50          |                    | 1,2,220-240,50          |         |  |
| Compressor            |                        | Type                        |                      | -            | Single BLDC Rotary |                         | Single BLDC Rotary |                         | Single BLDC Rotary |                         | Single BLDC Rotary |                         |         |  |
|                       |                        | Model                       |                      | -            | UG9T115FUAEQSS     |                         | UG9A090LNAER       |                         | UG9A090LNAER       |                         | UG9A090LNAER       |                         |         |  |
|                       |                        | Output                      |                      | kW           | -                  |                         | -                  |                         | -                  |                         | -                  |                         |         |  |
|                       |                        | Oil                         | Type                 | -            | POE                |                         | -                  |                         | -                  |                         | -                  |                         |         |  |
| Fan                   |                        | Air Flow Rate               | Cooling              | CMM          | 40.00              |                         | 35.00              |                         | 35.00              |                         | 35.00              |                         |         |  |
|                       |                        |                             |                      | l/s          | 666.67             |                         | 583.33             |                         | 583.33             |                         | 583.33             |                         |         |  |
| Sound                 |                        | Pressure                    | Cooling/Heating      | dB(A)        | 46.0 / 46.0        |                         | 46.0 / 46.0        |                         | 46.0 / 46.0        |                         | 46.0 / 46.0        |                         |         |  |
|                       |                        | Power                       | Cooling              |              | 62.0               |                         | 62.0               |                         | 62.0               |                         | 62.0               |                         |         |  |
| External Dimension    |                        | Net Weight                  |                      |              | kg                 | 34.50                   |                    | 29.00                   |                    | 29.00                   |                    | 29.00                   |         |  |
|                       |                        | Shipping Weight             |                      |              | kg                 | 37.50                   |                    | 32.00                   |                    | 32.00                   |                    | 32.00                   |         |  |
|                       |                        | Net Dimensions (WxHxD)      |                      |              | mm                 | 790 x 548 x 285         |                    | 720 x 548 x 265         |                    | 720 x 548 x 265         |                    | 720 x 548 x 265         |         |  |
|                       |                        | Shipping Dimensions (WxHxD) |                      |              | mm                 | 926 x 640 x 384         |                    | 844 x 622 x 353         |                    | 844 x 622 x 353         |                    | 844 x 622 x 353         |         |  |
| Operating Temp. Range |                        | Cooling                     |                      |              | °C                 | -10.0 ~ 46.0            |                    | -10.0 ~ 46.0            |                    | -10.0 ~ 46.0            |                    | -10.0 ~ 46.0            |         |  |
|                       |                        | Heating                     |                      |              | °C                 | -15.0 ~ 24.0            |                    | -15.0 ~ 24.0            |                    | -15.0 ~ 24.0            |                    | -15.0 ~ 24.0            |         |  |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type                  |                        |                             |                      | Inverter(HP)   |                         | Inverter(HP)       |                         | Inverter(HP)       |                         | Inverter(HP)     |                         |                  |  |
|-----------------------|------------------------|-----------------------------|----------------------|----------------|-------------------------|--------------------|-------------------------|--------------------|-------------------------|------------------|-------------------------|------------------|--|
| Model Name            |                        | Indoor Unit                 |                      | AR12JSPFAWKNEU |                         | AR12JSPFBWKNEU     |                         | AR18HSFNBWKNEU     |                         | AR18HSFSAWKNEU   |                         |                  |  |
|                       |                        | Outdoor Unit                |                      | AR12JSPFAWKXEU |                         | AR12JSPFBWKXEU     |                         | AR18HSFNBWKXEU     |                         | AR18HSFSAWKXEU   |                         |                  |  |
| System                | Mode                   |                             |                      | -              | Heat Pump               |                    | Heat Pump               |                    | Heat Pump               |                  | Heat Pump               |                  |  |
|                       | Capacity               | Cooling(Min/Std/Max)        |                      | kW             | 0.97 / 3.50 / 4.00      |                    | 0.97 / 3.50 / 4.00      |                    | 1.60 / 5.00 / 6.00      |                  | 1.60 / 5.00 / 6.00      |                  |  |
|                       |                        |                             |                      | Btu/h          | 3,300 / 11,900 / 13,600 |                    | 3,300 / 11,900 / 13,600 |                    | 5,500 / 17,100 / 20,500 |                  | 5,500 / 17,100 / 20,500 |                  |  |
|                       |                        | Heating(Min/Std/Max)        |                      | kW             | 0.85 / 4.00 / 6.60      |                    | 0.97 / 4.00 / 5.80      |                    | 1.20 / 6.00 / 8.20      |                  | 1.20 / 6.00 / 8.20      |                  |  |
|                       |                        |                             |                      | Btu/h          | 2,900 / 13,600 / 22,500 |                    | 3,300 / 13,600 / 19,800 |                    | 4,100 / 20,500 / 28,000 |                  | 4,100 / 20,500 / 28,000 |                  |  |
|                       | Power                  | Power Input (Nominal)       | Cooling(Min/Std/Max) | kW             | 0.22 / 0.94 / 1.15      |                    | 0.26 / 0.97 / 1.15      |                    | 0.30 / 1.45 / 1.90      |                  | 0.30 / 1.45 / 1.90      |                  |  |
|                       |                        |                             | Heating(Min/Std/Max) |                | 0.18 / 1.05 / 2.00      |                    | 0.22 / 1.05 / 1.70      |                    | 0.26 / 1.66 / 2.40      |                  | 0.26 / 1.66 / 2.40      |                  |  |
|                       |                        | Current Input (Nominal)     | Cooling(Min/Std/Max) | A              | 1.40 / 4.40 / 5.20      |                    | 1.70 / 4.80 / 5.20      |                    | 1.70 / 6.80 / 8.50      |                  | 1.70 / 6.80 / 8.50      |                  |  |
|                       |                        |                             | Heating(Min/Std/Max) |                | 1.20 / 4.90 / 8.80      |                    | 1.30 / 5.00 / 8.20      |                    | 1.60 / 7.80 / 10.80     |                  | 1.60 / 7.80 / 10.80     |                  |  |
|                       |                        | MCA                         |                      | A              | - (MCA)                 |                    | - (MCA)                 |                    | - (MCA)                 |                  | - (MCA)                 |                  |  |
|                       |                        | MFA                         |                      | A              | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       | Energy Efficiency      | EER (Nominal Cooling)       |                      | -              | 3.72                    |                    | 3.61                    |                    | 3.45                    |                  | 3.45                    |                  |  |
|                       |                        | COP (Nominal Heating)       |                      | -              | 3.81                    |                    | 3.81                    |                    | 3.61                    |                  | 3.61                    |                  |  |
|                       |                        | Energy Grade                |                      | -              | SEER 7.1 (A++)          |                    | SEER 6.7 (A++)          |                    | SEER 6.7 (A++)          |                  | SEER 6.7 (A++)          |                  |  |
|                       |                        |                             |                      | -              | SCOP 4.6 (A++)          |                    | SCOP 4.6 (A++)          |                    | SCOP 3.8 (A)            |                  | SCOP 3.8 (A)            |                  |  |
|                       | Piping Connections     | Liquid Pipe                 |                      | Ø, mm          | 6.35                    |                    | 6.35                    |                    | 6.35                    |                  | 6.35                    |                  |  |
|                       |                        |                             |                      | Ø, inch        | 1/4"                    |                    | 1/4"                    |                    | 1/4"                    |                  | 1/4"                    |                  |  |
|                       |                        | Gas Pipe                    |                      | Ø, mm          | 9.52                    |                    | 9.52                    |                    | 12.70                   |                  | 12.70                   |                  |  |
|                       |                        |                             |                      | Ø, inch        | 3/8"                    |                    | 3/8"                    |                    | 1/2"                    |                  | 1/2"                    |                  |  |
|                       |                        | Installation Limitation     | Max. Length          | m              | 15 (17)                 |                    | 15 (17)                 |                    | 30 (35)                 |                  | 30 (35)                 |                  |  |
|                       |                        |                             | Max. Height          | m              | 8 (8)                   |                    | 8 (8)                   |                    | 15 (15)                 |                  | 15 (15)                 |                  |  |
|                       | Field Wiring           | Power Source Wire           |                      | Ø, mm          | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Transmission Cable          |                      | Ø, mm          | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       | Refrigerant            | Type                        |                      | -              | R410A                   |                    | R410A                   |                    | R410A                   |                  | R410A                   |                  |  |
|                       |                        | Control Method              |                      | -              | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Factory Charging            |                      | kg             | 1.10                    |                    | 1.10                    |                    | 1.15                    |                  | 1.15                    |                  |  |
| Indoor Unit           | Power Supply           |                             |                      | Ø, #, V, Hz    | 1,2,220-240,50          |                    | 1,2,220-240,50          |                    | 1,2,220-240,50          |                  | 1,2,220-240,50          |                  |  |
|                       | Fan                    | Type                        |                      | -              | Cross Flow Fan          |                    | Cross Flow Fan          |                    | Normal                  |                  | Normal                  |                  |  |
|                       |                        | Motor                       | Output               | W              | 1                       |                    | 1                       |                    | 1                       |                  | 1                       |                  |  |
|                       |                        |                             |                      | CMM            | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Air Flow Rate               | High/Mid/Low         | l/s            | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | External Static Pressure    | Min/Std/Max          | mmAq           | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       | Pa                     |                             |                      | -              |                         | -                  |                         | -                  |                         | -                |                         |                  |  |
|                       | Drain                  | Drain Pipe                  |                      | Ø,mm           | ID18 HOSE               |                    | ID18 HOSE               |                    | ID18 HOSE               |                  | ID18 HOSE               |                  |  |
|                       | Sound                  | Pressure                    | High/Mid/Low         | dB(A)          | 39.0 / 16.0             |                    | 40.0 / 16.0             |                    | 41.0 / 25.0             |                  | 41.0 / 25.0             |                  |  |
|                       |                        | Power                       | Cooling              |                | 58.0                    |                    | 59.0                    |                    | 58.0                    |                  | 58.0                    |                  |  |
|                       | External Dimension     | Net Weight                  |                      | kg             | 12.50                   |                    | 12.00                   |                    | 13.00                   |                  | 13.00                   |                  |  |
|                       |                        | Shipping Weight             |                      | kg             | 15.00                   |                    | 14.50                   |                    | 16.00                   |                  | 16.00                   |                  |  |
|                       |                        | Net Dimensions (WxHxD)      |                      | mm             | 936 x 267 x 264         |                    | 936 x 267 x 264         |                    | 1,065 x 301 x 294       |                  | 1,065 x 301 x 294       |                  |  |
|                       |                        | Shipping Dimensions (WxHxD) |                      | mm             | 1,020 x 326 x 345       |                    | 1,020 x 326 x 345       |                    | 1,123 x 354 x 384       |                  | 1,123 x 354 x 384       |                  |  |
|                       | Panel Size             | Panel model                 |                      | -              | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Panel Net Weight            |                      | kg             | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Shipping Weight             |                      | kg             | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Net Dimensions (WxHxD)      |                      | mm             | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        | Shipping Dimensions (WxHxD) |                      | mm             | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       | Additional Accessories | Drain pump                  | Drain pump           | -              | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       |                        |                             | Max. Lifting         | mm/liter/h     | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       | Air Filter             |                             |                      | -              | -                       |                    | -                       |                    | -                       |                  | -                       |                  |  |
|                       | Outdoor Unit           | Power Supply                |                      |                | Ø, #, V, Hz             | 1,2,220-240,50     |                         | 1,2,220-240,50     |                         | 1,2,220-240,50   |                         | 1,2,220-240,50   |  |
|                       |                        | Compressor                  | Type                 |                | -                       | Single BLDC Rotary |                         | Single BLDC Rotary |                         | Twin BLDC Rotary |                         | Twin BLDC Rotary |  |
|                       |                        |                             | Model                |                | -                       | UG9T115FUAEQ       |                         | UG9T115FUAEQ       |                         | UG4T150LNBEQ     |                         | UG4T150LNBEQ     |  |
|                       |                        |                             | Output               |                | kW                      | -                  |                         | -                  |                         | 1.42             |                         | 1.42             |  |
| Fan                   |                        | Oil                         | Type                 | -              | POE                     |                    | POE                     |                    | POE                     |                  | POE                     |                  |  |
|                       |                        |                             | Air Flow Rate        | Cooling        | CMM                     | 40.00              |                         | 40.00              |                         | 55.00            |                         | 48.00            |  |
|                       |                        | Cooling                     | l/s                  | 666.67         | 666.67                  |                    | 666.67                  |                    | 916.67                  |                  | 800.00                  |                  |  |
| Sound                 |                        | Pressure                    | Cooling/Heating      | dB(A)          | 46.0 / 46.0             |                    | 46.0 / 46.0             |                    | 51.0 / 51.0             |                  | 51.0 / 51.0             |                  |  |
|                       |                        |                             | Cooling              |                | 62.0                    |                    | 62.0                    |                    | 65.0                    |                  | 65.0                    |                  |  |
| External Dimension    |                        | Net Weight                  |                      | kg             | 35.00                   |                    | 34.50                   |                    | 43.50                   |                  | 43.50                   |                  |  |
|                       |                        | Shipping Weight             |                      | kg             | 38.00                   |                    | 37.50                   |                    | 46.50                   |                  | 46.50                   |                  |  |
|                       |                        | Net Dimensions (WxHxD)      |                      | mm             | 790 x 548 x 285         |                    | 790 x 548 x 285         |                    | 880 x 638 x 310         |                  | 880 x 638 x 310         |                  |  |
|                       |                        | Shipping Dimensions (WxHxD) |                      | mm             | 926 x 640 x 384         |                    | 926 x 640 x 384         |                    | 1,023 x 730 x 413       |                  | 1,023 x 730 x 413       |                  |  |
| Operating Temp. Range |                        | Cooling                     |                      | °C             | -10.0 ~ 46.0            |                    | -10.0 ~ 46.0            |                    | -10.0 ~ 46.0            |                  | -10.0 ~ 46.0            |                  |  |
|                       |                        | Heating                     |                      | °C             | -15.0 ~ 24.0            |                    | -15.0 ~ 24.0            |                    | -15.0 ~ 24.0            |                  | -15.0 ~ 24.0            |                  |  |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type                     |                       |                             |                      | Inverter(HP)    |                  | Inverter(HP)            |                  | Inverter(HP)            |                  | Inverter(HP)            |                  |                         |         |  |
|--------------------------|-----------------------|-----------------------------|----------------------|-----------------|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|---------|--|
| Model Name               |                       | Indoor Unit                 |                      |                 | AR18HSSDBWKNEU   |                         | AR18JSFNCWKNEU   |                         | AR18JSFSBURNEU   |                         | AR24HSFNBWKNEU   |                         |         |  |
|                          |                       | Outdoor Unit                |                      |                 | AR18HSSDBWKXEU   |                         | AR18JSFNCWKXEU   |                         | AR18JSFSBURXEU   |                         | AR24HSFNBWKXEU   |                         |         |  |
| System                   | Mode                  |                             |                      |                 | -                |                         | Heat Pump        |                         | Heat Pump        |                         | Heat Pump        |                         |         |  |
|                          | Capacity              | Cooling(Min/Std/Max)        |                      |                 | kW               | 1.60 / 5.00 / 7.00      |                  | 1.60 / 5.00 / 6.00      |                  | 1.60 / 5.00 / 6.00      |                  | 2.20 / 6.80 / 8.00      |         |  |
|                          |                       |                             |                      |                 | Btu/h            | 5,500 / 17,100 / 23,900 |                  | 5,500 / 17,100 / 20,500 |                  | 5,500 / 17,100 / 20,500 |                  | 7,500 / 23,200 / 27,300 |         |  |
|                          |                       | Heating(Min/Std/Max)        |                      |                 | kW               | 1.20 / 6.00 / 8.00      |                  | 1.20 / 6.00 / 8.20      |                  | 1.20 / 6.00 / 8.20      |                  | 1.90 / 8.00 / 10.00     |         |  |
|                          |                       |                             |                      |                 | Btu/h            | 4,100 / 20,500 / 27,300 |                  | 4,100 / 20,500 / 28,000 |                  | 4,100 / 20,500 / 28,000 |                  | 6,500 / 27,300 / 34,100 |         |  |
|                          | Power                 | Power Input (Nominal)       | Cooling(Min/Std/Max) |                 | kW               | 0.38 / 1.28 / 2.20      |                  | 0.30 / 1.45 / 1.90      |                  | 0.30 / 1.45 / 1.90      |                  | 0.49 / 2.06 / 3.00      |         |  |
|                          |                       |                             | Heating(Min/Std/Max) |                 |                  | 0.30 / 1.46 / 2.10      |                  | 0.26 / 1.66 / 2.40      |                  | 0.26 / 1.66 / 2.40      |                  | 0.43 / 2.35 / 3.65      |         |  |
|                          |                       | Current Input (Nominal)     | Cooling(Min/Std/Max) |                 | A                | 1.80 / 6.00 / 9.70      |                  | 1.70 / 6.80 / 8.50      |                  | 1.70 / 6.80 / 8.50      |                  | 2.60 / 9.00 / 13.00     |         |  |
|                          |                       |                             | Heating(Min/Std/Max) |                 |                  | 1.50 / 6.80 / 10.50     |                  | 1.60 / 7.80 / 10.80     |                  | 1.60 / 7.80 / 10.80     |                  | 2.30 / 11.00 / 16.50    |         |  |
|                          |                       | MCA                         |                      |                 |                  | A                       | - (MCA)          |                         | - (MCA)          |                         | - (MCA)          |                         | - (MCA) |  |
|                          |                       | MFA                         |                      |                 |                  | A                       | -                |                         | -                |                         | -                |                         | -       |  |
|                          | Energy Efficiency     | EER (Nominal Cooling)       |                      |                 | -                | 3.91                    |                  | 3.45                    |                  | 3.45                    |                  | 3.30                    |         |  |
|                          |                       | COP (Nominal Heating)       |                      |                 | -                | 4.11                    |                  | 3.61                    |                  | 3.61                    |                  | 3.40                    |         |  |
|                          |                       | Energy Grade                |                      |                 | -                | SEER 7.0 (A++)          |                  | SEER 6.7 (A++)          |                  | SEER 6.7 (A++)          |                  | SEER 7.0 (A++)          |         |  |
|                          |                       |                             |                      |                 | -                | SCOP 4.0 (A+)           |                  | SCOP 3.8 (A)            |                  | SCOP 3.8 (A)            |                  | SCOP 3.8 (A)            |         |  |
|                          | Piping Connections    | Liquid Pipe                 |                      |                 | Ø, mm            | 6.35                    |                  | 6.35                    |                  | 6.35                    |                  | 6.35                    |         |  |
|                          |                       |                             |                      |                 | Ø, inch          | 1/4"                    |                  | 1/4"                    |                  | 1/4"                    |                  | 1/4"                    |         |  |
|                          |                       |                             | Gas Pipe             |                 |                  | Ø, mm                   | 12.70            |                         | 12.70            |                         | 12.70            |                         | 12.70   |  |
|                          |                       |                             |                      |                 |                  | Ø, inch                 | 1/2"             |                         | 1/2"             |                         | 1/2"             |                         | 1/2"    |  |
|                          |                       | Installation Limitation     | Max. Length          | m               | 30 (35)          |                         | 30 (35)          |                         | 30 (35)          |                         | 30 (35)          |                         |         |  |
|                          |                       |                             | Max. Height          | m               | 15 (15)          |                         | 15 (15)          |                         | 15 (15)          |                         | 15 (15)          |                         |         |  |
|                          | Field Wiring          | Power Source Wire           |                      |                 | Ø, mm            | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       | Transmission Cable          |                      |                 | Ø, mm            | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          | Refrigerant           | Type                        |                      |                 | -                | R410A                   |                  | R410A                   |                  | R410A                   |                  | R410A                   |         |  |
|                          |                       | Control Method              |                      |                 | -                | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       | Factory Charging            |                      |                 | kg               | 1.50                    |                  | 1.15                    |                  | 1.15                    |                  | 1.50                    |         |  |
|                          | Indoor Unit           | Power Supply                |                      |                 | Ø, #, V, Hz      | 1,2,220-240,50          |                  | 1,2,220-240,50          |                  | 1,2,220-240,50          |                  | 1,2,220-240,50          |         |  |
|                          |                       | Fan                         | Type                 |                 | -                | Normal                  |                  | Normal                  |                  | Normal                  |                  | Normal                  |         |  |
|                          |                       |                             | Motor                | Output          | W                | 1                       |                  | 1                       |                  | 1                       |                  | 1                       |         |  |
|                          |                       |                             |                      |                 | CMM              | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
| Air Flow Rate            |                       |                             | High/Mid/Low         | l/s             | -                |                         | -                |                         | -                |                         | -                |                         |         |  |
| External Static Pressure |                       |                             | Min/Std/Max          | mmAq            | -                |                         | -                |                         | -                |                         | -                |                         |         |  |
|                          |                       | Pa                          |                      | -               |                  | -                       |                  | -                       |                  | -                       |                  |                         |         |  |
| Drain                    |                       | Drain Pipe                  |                      |                 | Ø,mm             | ID18 HOSE               |                  | ID18 HOSE               |                  | ID18 HOSE               |                  | ID18 HOSE               |         |  |
| Sound                    |                       | Pressure                    | High/Mid/Low         | dB(A)           | 42.0 / 25.0      |                         | 41.0 / 25.0      |                         | 41.0 / 25.0      |                         | 43.0 / 26.0      |                         |         |  |
|                          |                       | Power                       | Cooling              |                 | 58.0             |                         | 58.0             |                         | 58.0             |                         | 62.0             |                         |         |  |
| External Dimension       |                       | Net Weight                  |                      |                 | kg               | 15.50                   |                  | 13.00                   |                  | 13.00                   |                  | 14.00                   |         |  |
|                          |                       | Shipping Weight             |                      |                 | kg               | 18.50                   |                  | 16.00                   |                  | 16.00                   |                  | 17.00                   |         |  |
|                          |                       | Net Dimensions (WxHxD)      |                      |                 | mm               | 1,065 x 301 x 294       |                  | 1,065 x 301 x 294       |                  | 1,065 x 301 x 294       |                  | 1,065 x 301 x 294       |         |  |
|                          |                       | Shipping Dimensions (WxHxD) |                      |                 | mm               | 1,123 x 354 x 384       |                  | 1,123 x 354 x 384       |                  | 1,123 x 354 x 384       |                  | 1,123 x 354 x 384       |         |  |
| Panel Size               |                       | Panel model                 |                      |                 | -                | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       | Panel Net Weight            |                      |                 | kg               | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       | Shipping Weight             |                      |                 | kg               | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       | Net Dimensions (WxHxD)      |                      |                 | mm               | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       | Shipping Dimensions (WxHxD) |                      |                 | mm               | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
| Additional Accessories   |                       | Drain pump                  | Drain pump           |                 | -                | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
|                          |                       |                             | Max. Lifting         |                 | mm/liter/h       | -                       |                  | -                       |                  | -                       |                  | -                       |         |  |
| Air Filter               |                       |                             | -                    | -               |                  | -                       |                  | -                       |                  | -                       |                  |                         |         |  |
| Outdoor Unit             | Power Supply          |                             |                      | Ø, #, V, Hz     | 1,2,220-240,50   |                         | 1,2,220-240,50   |                         | 1,2,220-240,50   |                         | 1,2,220-240,50   |                         |         |  |
|                          | Compressor            | Type                        |                      | -               | Twin BLDC Rotary |                         | Twin BLDC Rotary |                         | Twin BLDC Rotary |                         | Twin BLDC Rotary |                         |         |  |
|                          |                       | Model                       |                      | -               | UG4T200FUA4      |                         | UG4T150LNB4      |                         | UG4T150LNB4      |                         | UG4T200FUA4      |                         |         |  |
|                          |                       | Output                      |                      | kW              | 5.92             |                         | 1.42             |                         | 1.42             |                         | 5.92             |                         |         |  |
|                          |                       | Oil                         | Type                 | -               | POE              |                         | POE              |                         | POE              |                         | POE              |                         |         |  |
|                          | Fan                   |                             |                      | Air Flow Rate   | Cooling          | CMM                     | 55.00            |                         | 55.00            |                         | 55.00            |                         |         |  |
|                          |                       | Sound                       | Pressure             | Cooling/Heating | dB(A)            | 51.0 / 51.0             |                  | 51.0 / 51.0             |                  | 51.0 / 51.0             |                  | 52.0 / 52.0             |         |  |
|                          | Power                 |                             |                      |                 |                  | Cooling                 | 65.0             |                         | 65.0             |                         | 65.0             |                         | 67.0    |  |
|                          | External Dimension    | Net Weight                  |                      |                 | kg               | 52.50                   |                  | 43.50                   |                  | 43.50                   |                  | 52.50                   |         |  |
|                          |                       | Shipping Weight             |                      |                 | kg               | 56.50                   |                  | 46.50                   |                  | 46.50                   |                  | 56.50                   |         |  |
|                          |                       | Net Dimensions (WxHxD)      |                      |                 | mm               | 880 x 793 x 310         |                  | 880 x 638 x 310         |                  | 880 x 638 x 310         |                  | 880 x 793 x 310         |         |  |
|                          |                       | Shipping Dimensions (WxHxD) |                      |                 | mm               | 1,023 x 911 x 413       |                  | 1,023 x 730 x 413       |                  | 1,023 x 730 x 413       |                  | 1,023 x 911 x 413       |         |  |
|                          | Operating Temp. Range | Cooling                     |                      |                 | °C               | -10.0 ~ 46.0            |                  | -10.0 ~ 46.0            |                  | -10.0 ~ 46.0            |                  | -10.0 ~ 46.0            |         |  |
|                          |                       | Heating                     |                      |                 | °C               | -15.0 ~ 24.0            |                  | -15.0 ~ 24.0            |                  | -15.0 ~ 24.0            |                  | -15.0 ~ 24.0            |         |  |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 2 Specifications

## Inverter(HP)

| Type                     |                       |                             |                      | Inverter(HP)   |                         | Inverter(HP)   |                         | Inverter(HP)   |                         | Inverter(HP)   |                         |                |       |  |
|--------------------------|-----------------------|-----------------------------|----------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------|--|
| Model Name               |                       | Indoor Unit                 |                      | AR24HSFSAWKNEU |                         | AR24HSSDBWKNEU |                         | AR24JSFNCWKNEU |                         | AR24JSFSBURNEU |                         |                |       |  |
|                          |                       | Outdoor Unit                |                      | AR24HSFSAWKXEU |                         | AR24HSSDBWKXEU |                         | AR24JSFNCWKXEU |                         | AR24JSFSBURXEU |                         |                |       |  |
| System                   | Mode                  |                             |                      | -              | Heat Pump               |                | Heat Pump               |                | Heat Pump               |                | Heat Pump               |                |       |  |
|                          | Capacity              | Cooling(Min/Std/Max)        |                      | kW             | 2.20 / 6.80 / 8.00      |                | 2.20 / 6.80 / 8.00      |                | 2.20 / 6.80 / 8.00      |                | 2.20 / 6.80 / 8.00      |                |       |  |
|                          |                       |                             |                      | Btu/h          | 7,500 / 23,200 / 27,300 |                | 7,500 / 23,200 / 27,300 |                | 7,500 / 23,200 / 27,300 |                | 7,500 / 23,200 / 27,300 |                |       |  |
|                          |                       | Heating(Min/Std/Max)        |                      | kW             | 1.90 / 8.00 / 10.00     |                | 1.90 / 8.00 / 10.00     |                | 1.90 / 8.00 / 10.00     |                | 1.90 / 8.00 / 10.00     |                |       |  |
|                          |                       |                             |                      | Btu/h          | 6,500 / 27,300 / 34,100 |                | 6,500 / 27,300 / 34,100 |                | 6,500 / 27,300 / 34,100 |                | 6,500 / 27,300 / 34,100 |                |       |  |
|                          | Power                 | Power Input (Nominal)       | Cooling(Min/Std/Max) | kW             | 0.49 / 2.06 / 3.00      |                | 0.49 / 2.06 / 2.80      |                | 0.49 / 2.06 / 3.00      |                | 0.49 / 2.06 / 3.00      |                |       |  |
|                          |                       |                             | Heating(Min/Std/Max) |                | 0.43 / 2.35 / 3.65      |                | 0.43 / 2.28 / 3.65      |                | 0.43 / 2.35 / 3.65      |                | 0.43 / 2.35 / 3.65      |                |       |  |
|                          |                       | Current Input (Nominal)     | Cooling(Min/Std/Max) | A              | 2.60 / 9.00 / 13.00     |                | 2.60 / 9.00 / 12.50     |                | 2.60 / 9.00 / 13.00     |                | 2.60 / 9.00 / 13.00     |                |       |  |
|                          |                       |                             | Heating(Min/Std/Max) |                | 2.30 / 11.00 / 16.50    |                | 2.30 / 10.80 / 16.50    |                | 2.30 / 11.00 / 16.50    |                | 2.30 / 11.00 / 16.50    |                |       |  |
|                          |                       | MCA                         |                      | A              | - (MCA)                 |                | - (MCA)                 |                | - (MCA)                 |                | - (MCA)                 |                |       |  |
|                          |                       | MFA                         |                      | A              | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          | Energy Efficiency     | EER (Nominal Cooling)       |                      | -              | 3.30                    |                | 3.30                    |                | 3.30                    |                | 3.30                    |                |       |  |
|                          |                       | COP (Nominal Heating)       |                      | -              | 3.40                    |                | 3.51                    |                | 3.40                    |                | 3.40                    |                |       |  |
|                          |                       | Energy Grade                |                      | -              | SEER 7.0 (A++)          |                | SEER 7.0 (A++)          |                | SEER 7.0 (A++)          |                | SEER 7.0 (A++)          |                |       |  |
|                          |                       |                             |                      | -              | SCOP 3.8 (A)            |                | SCOP 4.0 (A+)           |                | SCOP 3.8 (A)            |                | SCOP 3.8 (A)            |                |       |  |
|                          | Piping Connections    | Liquid Pipe                 |                      |                | Ø, mm                   | 6.35           |                         | 6.35           |                         | 6.35           |                         | 6.35           |       |  |
|                          |                       |                             |                      |                | Ø, inch                 | 1/4"           |                         | 1/4"           |                         | 1/4"           |                         | 1/4"           |       |  |
|                          |                       |                             | Gas Pipe             |                |                         | Ø, mm          | 12.70                   |                | 12.70                   |                | 12.70                   |                | 12.70 |  |
|                          |                       |                             |                      |                |                         | Ø, inch        | 1/2"                    |                | 1/2"                    |                | 1/2"                    |                | 1/2"  |  |
|                          |                       | Installation Limitation     | Max. Length          | m              | 30 (35)                 |                | 30 (35)                 |                | 30 (35)                 |                | 30 (35)                 |                |       |  |
|                          |                       |                             | Max. Height          | m              | 15 (15)                 |                | 15 (15)                 |                | 15 (15)                 |                | 15 (15)                 |                |       |  |
|                          | Field Wiring          | Power Source Wire           |                      | Ø, mm          | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Transmission Cable          |                      | Ø, mm          | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          | Refrigerant           | Type                        |                      | -              | R410A                   |                | R410A                   |                | R410A                   |                | R410A                   |                |       |  |
|                          |                       | Control Method              |                      | -              | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Factory Charging            |                      | kg             | 1.50                    |                | 1.50                    |                | 1.50                    |                | 1.50                    |                |       |  |
|                          | Indoor Unit           | Power Supply                |                      |                | Ø, #, V, Hz             | 1,2,220-240,50 |                         | 1,2,220-240,50 |                         | 1,2,220-240,50 |                         | 1,2,220-240,50 |       |  |
|                          |                       | Fan                         | Type                 |                | -                       | Normal         |                         | Normal         |                         | Normal         |                         | Normal         |       |  |
|                          |                       |                             | Motor                | Output         | W                       | 1              |                         | 1              |                         | 1              |                         | 1              |       |  |
|                          |                       |                             |                      |                | CMM                     | -              |                         | -              |                         | -              |                         | -              |       |  |
| Air Flow Rate            |                       |                             | High/Mid/Low         | l/s            | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
| External Static Pressure |                       |                             | Min/Std/Max          | mmAq           | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Pa                          |                      | -              |                         | -              |                         | -              |                         | -              |                         |                |       |  |
| Drain                    |                       | Drain Pipe                  |                      | Ø,mm           | ID18 HOSE               |                | ID18 HOSE               |                | ID18 HOSE               |                | ID18 HOSE               |                |       |  |
| Sound                    |                       | Pressure                    | High/Mid/Low         | dB(A)          | 43.0 / 26.0             |                | 43.0 / 26.0             |                | 43.0 / 26.0             |                | 43.0 / 26.0             |                |       |  |
|                          |                       | Power                       | Cooling              |                | 62.0                    |                | 62.0                    |                | 62.0                    |                | 62.0                    |                |       |  |
| External Dimension       |                       | Net Weight                  |                      | kg             | 14.00                   |                | 15.50                   |                | 14.00                   |                | 14.00                   |                |       |  |
|                          |                       | Shipping Weight             |                      | kg             | 17.00                   |                | 18.50                   |                | 17.00                   |                | 17.00                   |                |       |  |
|                          |                       | Net Dimensions (WxHxD)      |                      | mm             | 1,065 x 301 x 294       |                | 1,065 x 301 x 294       |                | 1,065 x 301 x 294       |                | 1,065 x 301 x 294       |                |       |  |
|                          |                       | Shipping Dimensions (WxHxD) |                      | mm             | 1,123 x 354 x 384       |                | 1,123 x 354 x 384       |                | 1,123 x 354 x 384       |                | 1,123 x 354 x 384       |                |       |  |
| Panel Size               |                       | Panel model                 |                      | -              | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Panel Net Weight            |                      | kg             | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Shipping Weight             |                      | kg             | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Net Dimensions (WxHxD)      |                      | mm             | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       | Shipping Dimensions (WxHxD) |                      | mm             | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
| Additional Accessories   |                       | Drain pump                  | Drain pump           | -              | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
|                          |                       |                             | Max. Lifting         | mm/liter/h     | -                       |                | -                       |                | -                       |                | -                       |                |       |  |
| Air Filter               |                       |                             | -                    | -              |                         | -              |                         | -              |                         | -              |                         |                |       |  |
| Outdoor Unit             | Power Supply          |                             |                      | Ø, #, V, Hz    | 1,2,220-240,50          |                | 1,2,220-240,50          |                | 1,2,220-240,50          |                | 1,2,220-240,50          |                |       |  |
|                          | Compressor            | Type                        |                      | -              | Twin BLDC Rotary        |                | Twin BLDC Rotary        |                | Twin BLDC Rotary        |                | Twin BLDC Rotary        |                |       |  |
|                          |                       | Model                       |                      | -              | UG4T200FUA4             |                | UG4T200FUA4             |                | UG4T200FUA4             |                | UG4T200FUA4             |                |       |  |
|                          |                       | Output                      |                      | kW             | 5.92                    |                | 5.92                    |                | 5.92                    |                | 5.92                    |                |       |  |
|                          | Oil                   | Type                        | -                    | POE            |                         | POE            |                         | POE            |                         | POE            |                         |                |       |  |
|                          |                       |                             | Air Flow Rate        | Cooling        | CMM                     | 55.00          |                         | 55.00          |                         | 55.00          |                         |                |       |  |
|                          | Sound                 | Pressure                    | Cooling/Heating      | dB(A)          | 52.0 / 52.0             |                | 52.0 / 52.0             |                | 52.0 / 52.0             |                | 52.0 / 52.0             |                |       |  |
|                          |                       | Power                       | Cooling              |                | 67.0                    |                | 67.0                    |                | 67.0                    |                |                         |                |       |  |
|                          | External Dimension    | Net Weight                  |                      | kg             | 52.50                   |                | 52.50                   |                | 52.50                   |                | 52.50                   |                |       |  |
|                          |                       | Shipping Weight             |                      | kg             | 56.50                   |                | 56.50                   |                | 56.50                   |                | 56.50                   |                |       |  |
|                          |                       | Net Dimensions (WxHxD)      |                      | mm             | 880 x 793 x 310         |                | 880 x 793 x 310         |                | 880 x 793 x 310         |                | 880 x 793 x 310         |                |       |  |
|                          |                       | Shipping Dimensions (WxHxD) |                      | mm             | 1,023 x 911 x 413       |                | 1,023 x 911 x 413       |                | 1,023 x 911 x 413       |                | 1,023 x 911 x 413       |                |       |  |
|                          | Operating Temp. Range | Cooling                     |                      | °C             | -10.0 ~ 46.0            |                | -10.0 ~ 46.0            |                | -10.0 ~ 46.0            |                | -10.0 ~ 46.0            |                |       |  |
|                          |                       | Heating                     |                      | °C             | -15.0 ~ 24.0            |                | -15.0 ~ 24.0            |                | -15.0 ~ 24.0            |                | -15.0 ~ 24.0            |                |       |  |

\* Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

\*3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# 3 Capacity table

## Inverter(HP)

AR09HSFNBWKNET + AR09HSFNBWKXET

### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.52                        | 1.41 | 0.60 | 2.14 | 1.54 | 0.60 | 2.52 | 1.81 | 0.61 | 2.52 | 2.02 | 0.61 | 2.90 | 2.09 | 0.61 | 3.28 | 2.23 | 0.61 | 3.28 | 2.49 | 0.62 |
| 0.0                             | 2.52                        | 1.41 | 0.59 | 2.14 | 1.54 | 0.59 | 2.52 | 1.81 | 0.60 | 2.52 | 2.02 | 0.60 | 2.90 | 2.09 | 0.60 | 3.28 | 2.23 | 0.60 | 3.28 | 2.49 | 0.61 |
| 10.0                            | 2.51                        | 1.41 | 0.59 | 2.13 | 1.53 | 0.59 | 2.51 | 1.81 | 0.60 | 2.51 | 2.01 | 0.60 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 20.0                            | 2.51                        | 1.41 | 0.58 | 2.13 | 1.53 | 0.58 | 2.51 | 1.81 | 0.59 | 2.51 | 2.01 | 0.59 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 25.0                            | 2.72                        | 1.52 | 0.68 | 2.34 | 1.68 | 0.68 | 2.72 | 1.96 | 0.69 | 2.72 | 2.18 | 0.69 | 3.10 | 2.23 | 0.70 | 3.48 | 2.37 | 0.70 | 3.48 | 2.64 | 0.71 |
| 32.0                            | 3.02                        | 1.69 | 0.83 | 2.64 | 1.90 | 0.84 | 3.02 | 2.17 | 0.85 | 3.02 | 2.42 | 0.85 | 3.40 | 2.45 | 0.86 | 3.78 | 2.57 | 0.87 | 3.78 | 2.87 | 0.88 |
| 35.0                            | 3.15                        | 1.76 | 0.91 | 2.77 | 1.99 | 0.92 | 3.15 | 2.27 | 0.93 | 3.15 | 2.52 | 0.93 | 3.53 | 2.54 | 0.93 | 3.91 | 2.66 | 0.94 | 3.91 | 2.97 | 0.94 |
| 40.0                            | 2.89                        | 1.62 | 0.93 | 2.51 | 1.81 | 0.94 | 2.89 | 2.08 | 0.95 | 2.89 | 2.31 | 0.96 | 3.27 | 2.35 | 0.97 | 3.65 | 2.48 | 0.98 | 3.65 | 2.77 | 0.99 |
| 43.0                            | 2.73                        | 1.53 | 0.93 | 2.35 | 1.69 | 0.94 | 2.73 | 1.97 | 0.96 | 2.73 | 2.18 | 0.97 | 3.11 | 2.24 | 0.98 | 3.49 | 2.37 | 1.00 | 3.49 | 2.65 | 1.01 |
| 46.0                            | 2.57                        | 1.44 | 0.95 | 2.19 | 1.58 | 0.96 | 2.57 | 1.85 | 0.98 | 2.57 | 2.06 | 0.99 | 2.95 | 2.12 | 1.00 | 3.33 | 2.26 | 1.02 | 3.33 | 2.53 | 1.04 |

### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.29                        | 0.92 | 2.24 | 0.94 | 2.20 | 0.96 | 2.20 | 0.96 | 2.20 | 0.97 | 2.20 | 0.98 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.89                        | 1.07 | 3.81 | 1.09 | 3.74 | 1.11 | 3.74 | 1.12 | 3.74 | 1.12 | 3.74 | 1.13 |
| 2.0                             | 4.10                        | 1.09 | 4.02 | 1.11 | 3.94 | 1.13 | 3.94 | 1.14 | 3.94 | 1.14 | 3.94 | 1.15 |
| 5.0                             | 3.32                        | 0.87 | 3.25 | 0.89 | 3.19 | 0.91 | 3.16 | 0.91 | 3.13 | 0.92 | 3.06 | 0.93 |
| 7.0                             | 3.43                        | 0.87 | 3.37 | 0.89 | 3.30 | 0.91 | 3.27 | 0.91 | 3.27 | 0.92 | 3.23 | 0.93 |
| 10.0                            | 3.60                        | 0.88 | 3.53 | 0.89 | 3.46 | 0.91 | 3.43 | 0.92 | 3.43 | 0.92 | 3.40 | 0.93 |
| 15.0                            | 3.89                        | 0.88 | 3.81 | 0.90 | 3.74 | 0.92 | 3.70 | 0.92 | 3.70 | 0.93 | 3.66 | 0.94 |
| 20.0                            | 4.17                        | 0.89 | 4.09 | 0.91 | 4.01 | 0.93 | 3.97 | 0.93 | 3.97 | 0.93 | 3.93 | 0.94 |
| 24.0                            | 4.40                        | 0.89 | 4.31 | 0.91 | 4.23 | 0.93 | 4.19 | 0.93 | 4.19 | 0.94 | 4.15 | 0.95 |

AR09HSFNMWKNZE + AR09HSFNMWKXZE

### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.52                        | 1.41 | 0.60 | 2.14 | 1.54 | 0.60 | 2.52 | 1.81 | 0.61 | 2.52 | 2.02 | 0.61 | 2.90 | 2.09 | 0.61 | 3.28 | 2.23 | 0.61 | 3.28 | 2.49 | 0.62 |
| 0.0                             | 2.52                        | 1.41 | 0.59 | 2.14 | 1.54 | 0.59 | 2.52 | 1.81 | 0.60 | 2.52 | 2.02 | 0.60 | 2.90 | 2.09 | 0.60 | 3.28 | 2.23 | 0.60 | 3.28 | 2.49 | 0.61 |
| 10.0                            | 2.51                        | 1.41 | 0.59 | 2.13 | 1.53 | 0.59 | 2.51 | 1.81 | 0.60 | 2.51 | 2.01 | 0.60 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 20.0                            | 2.51                        | 1.41 | 0.58 | 2.13 | 1.53 | 0.58 | 2.51 | 1.81 | 0.59 | 2.51 | 2.01 | 0.59 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 25.0                            | 2.72                        | 1.52 | 0.68 | 2.34 | 1.68 | 0.68 | 2.72 | 1.96 | 0.69 | 2.72 | 2.18 | 0.69 | 3.10 | 2.23 | 0.70 | 3.48 | 2.37 | 0.70 | 3.48 | 2.64 | 0.71 |
| 32.0                            | 3.02                        | 1.69 | 0.83 | 2.64 | 1.90 | 0.84 | 3.02 | 2.17 | 0.85 | 3.02 | 2.42 | 0.85 | 3.40 | 2.45 | 0.86 | 3.78 | 2.57 | 0.87 | 3.78 | 2.87 | 0.88 |
| 35.0                            | 3.15                        | 1.76 | 0.91 | 2.77 | 1.99 | 0.92 | 3.15 | 2.27 | 0.93 | 3.15 | 2.52 | 0.93 | 3.53 | 2.54 | 0.93 | 3.91 | 2.66 | 0.94 | 3.91 | 2.97 | 0.94 |
| 40.0                            | 2.89                        | 1.62 | 0.93 | 2.51 | 1.81 | 0.94 | 2.89 | 2.08 | 0.95 | 2.89 | 2.31 | 0.96 | 3.27 | 2.35 | 0.97 | 3.65 | 2.48 | 0.98 | 3.65 | 2.77 | 0.99 |
| 43.0                            | 2.73                        | 1.53 | 0.93 | 2.35 | 1.69 | 0.94 | 2.73 | 1.97 | 0.96 | 2.73 | 2.18 | 0.97 | 3.11 | 2.24 | 0.98 | 3.49 | 2.37 | 1.00 | 3.49 | 2.65 | 1.01 |
| 46.0                            | 2.57                        | 1.44 | 0.95 | 2.19 | 1.58 | 0.96 | 2.57 | 1.85 | 0.98 | 2.57 | 2.06 | 0.99 | 2.95 | 2.12 | 1.00 | 3.33 | 2.26 | 1.02 | 3.33 | 2.53 | 1.04 |

### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.29                        | 0.92 | 2.24 | 0.94 | 2.20 | 0.96 | 2.20 | 0.96 | 2.20 | 0.97 | 2.20 | 0.98 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.89                        | 1.07 | 3.81 | 1.09 | 3.74 | 1.11 | 3.74 | 1.12 | 3.74 | 1.12 | 3.74 | 1.13 |
| 2.0                             | 4.10                        | 1.09 | 4.02 | 1.11 | 3.94 | 1.13 | 3.94 | 1.14 | 3.94 | 1.14 | 3.94 | 1.15 |
| 5.0                             | 3.32                        | 0.87 | 3.25 | 0.89 | 3.19 | 0.91 | 3.16 | 0.91 | 3.13 | 0.92 | 3.06 | 0.93 |
| 7.0                             | 3.43                        | 0.87 | 3.37 | 0.89 | 3.30 | 0.91 | 3.27 | 0.91 | 3.27 | 0.92 | 3.23 | 0.93 |
| 10.0                            | 3.60                        | 0.88 | 3.53 | 0.89 | 3.46 | 0.91 | 3.43 | 0.92 | 3.43 | 0.92 | 3.40 | 0.93 |
| 15.0                            | 3.89                        | 0.88 | 3.81 | 0.90 | 3.74 | 0.92 | 3.70 | 0.92 | 3.70 | 0.93 | 3.66 | 0.94 |
| 20.0                            | 4.17                        | 0.89 | 4.09 | 0.91 | 4.01 | 0.93 | 3.97 | 0.93 | 3.97 | 0.93 | 3.93 | 0.94 |
| 24.0                            | 4.40                        | 0.89 | 4.31 | 0.91 | 4.23 | 0.93 | 4.19 | 0.93 | 4.19 | 0.94 | 4.15 | 0.95 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR09HSFSBWKNET + AR09HSFSBWKXET

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.52                        | 1.41 | 0.60 | 2.14 | 1.54 | 0.60 | 2.52 | 1.81 | 0.61 | 2.52 | 2.02 | 0.61 | 2.90 | 2.09 | 0.61 | 3.28 | 2.23 | 0.61 | 3.28 | 2.49 | 0.62 |
| 0.0                             | 2.52                        | 1.41 | 0.59 | 2.14 | 1.54 | 0.59 | 2.52 | 1.81 | 0.60 | 2.52 | 2.02 | 0.60 | 2.90 | 2.09 | 0.60 | 3.28 | 2.23 | 0.60 | 3.28 | 2.49 | 0.61 |
| 10.0                            | 2.51                        | 1.41 | 0.59 | 2.13 | 1.53 | 0.59 | 2.51 | 1.81 | 0.60 | 2.51 | 2.01 | 0.60 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 20.0                            | 2.51                        | 1.41 | 0.58 | 2.13 | 1.53 | 0.58 | 2.51 | 1.81 | 0.59 | 2.51 | 2.01 | 0.59 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 25.0                            | 2.72                        | 1.52 | 0.68 | 2.34 | 1.68 | 0.68 | 2.72 | 1.96 | 0.69 | 2.72 | 2.18 | 0.69 | 3.10 | 2.23 | 0.70 | 3.48 | 2.37 | 0.70 | 3.48 | 2.64 | 0.71 |
| 32.0                            | 3.02                        | 1.69 | 0.83 | 2.64 | 1.90 | 0.84 | 3.02 | 2.17 | 0.85 | 3.02 | 2.42 | 0.85 | 3.40 | 2.45 | 0.86 | 3.78 | 2.57 | 0.87 | 3.78 | 2.87 | 0.88 |
| 35.0                            | 3.15                        | 1.76 | 0.91 | 2.77 | 1.99 | 0.92 | 3.15 | 2.27 | 0.93 | 3.15 | 2.52 | 0.93 | 3.53 | 2.54 | 0.93 | 3.91 | 2.66 | 0.94 | 3.91 | 2.97 | 0.94 |
| 40.0                            | 2.89                        | 1.62 | 0.93 | 2.51 | 1.81 | 0.94 | 2.89 | 2.08 | 0.95 | 2.89 | 2.31 | 0.96 | 3.27 | 2.35 | 0.97 | 3.65 | 2.48 | 0.98 | 3.65 | 2.77 | 0.99 |
| 43.0                            | 2.73                        | 1.53 | 0.93 | 2.35 | 1.69 | 0.94 | 2.73 | 1.97 | 0.96 | 2.73 | 2.18 | 0.97 | 3.11 | 2.24 | 0.98 | 3.49 | 2.37 | 1.00 | 3.49 | 2.65 | 1.01 |
| 46.0                            | 2.57                        | 1.44 | 0.95 | 2.19 | 1.58 | 0.96 | 2.57 | 1.85 | 0.98 | 2.57 | 2.06 | 0.99 | 2.95 | 2.12 | 1.00 | 3.33 | 2.26 | 1.02 | 3.33 | 2.53 | 1.04 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.29                        | 0.92 | 2.24 | 0.94 | 2.20 | 0.96 | 2.20 | 0.96 | 2.20 | 0.97 | 2.20 | 0.98 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.89                        | 1.07 | 3.81 | 1.09 | 3.74 | 1.11 | 3.74 | 1.12 | 3.74 | 1.12 | 3.74 | 1.13 |
| 2.0                             | 4.10                        | 1.09 | 4.02 | 1.11 | 3.94 | 1.13 | 3.94 | 1.14 | 3.94 | 1.14 | 3.94 | 1.15 |
| 5.0                             | 3.32                        | 0.87 | 3.25 | 0.89 | 3.19 | 0.91 | 3.16 | 0.91 | 3.13 | 0.92 | 3.06 | 0.93 |
| 7.0                             | 3.43                        | 0.87 | 3.37 | 0.89 | 3.30 | 0.91 | 3.27 | 0.91 | 3.27 | 0.92 | 3.23 | 0.93 |
| 10.0                            | 3.60                        | 0.88 | 3.53 | 0.89 | 3.46 | 0.91 | 3.43 | 0.92 | 3.43 | 0.92 | 3.40 | 0.93 |
| 15.0                            | 3.89                        | 0.88 | 3.81 | 0.90 | 3.74 | 0.92 | 3.70 | 0.92 | 3.70 | 0.93 | 3.66 | 0.94 |
| 20.0                            | 4.17                        | 0.89 | 4.09 | 0.91 | 4.01 | 0.93 | 3.97 | 0.93 | 3.97 | 0.93 | 3.93 | 0.94 |
| 24.0                            | 4.40                        | 0.89 | 4.31 | 0.91 | 4.23 | 0.93 | 4.19 | 0.93 | 4.19 | 0.94 | 4.15 | 0.95 |

### AR09HSFSBWKNZE + AR09HSFSBWKXZE

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.52                        | 1.41 | 0.60 | 2.14 | 1.54 | 0.60 | 2.52 | 1.81 | 0.61 | 2.52 | 2.02 | 0.61 | 2.90 | 2.09 | 0.61 | 3.28 | 2.23 | 0.61 | 3.28 | 2.49 | 0.62 |
| 0.0                             | 2.52                        | 1.41 | 0.59 | 2.14 | 1.54 | 0.59 | 2.52 | 1.81 | 0.60 | 2.52 | 2.02 | 0.60 | 2.90 | 2.09 | 0.60 | 3.28 | 2.23 | 0.60 | 3.28 | 2.49 | 0.61 |
| 10.0                            | 2.51                        | 1.41 | 0.59 | 2.13 | 1.53 | 0.59 | 2.51 | 1.81 | 0.60 | 2.51 | 2.01 | 0.60 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 20.0                            | 2.51                        | 1.41 | 0.58 | 2.13 | 1.53 | 0.58 | 2.51 | 1.81 | 0.59 | 2.51 | 2.01 | 0.59 | 2.89 | 2.08 | 0.60 | 3.27 | 2.22 | 0.60 | 3.27 | 2.49 | 0.61 |
| 25.0                            | 2.72                        | 1.52 | 0.68 | 2.34 | 1.68 | 0.68 | 2.72 | 1.96 | 0.69 | 2.72 | 2.18 | 0.69 | 3.10 | 2.23 | 0.70 | 3.48 | 2.37 | 0.70 | 3.48 | 2.64 | 0.71 |
| 32.0                            | 3.02                        | 1.69 | 0.83 | 2.64 | 1.90 | 0.84 | 3.02 | 2.17 | 0.85 | 3.02 | 2.42 | 0.85 | 3.40 | 2.45 | 0.86 | 3.78 | 2.57 | 0.87 | 3.78 | 2.87 | 0.88 |
| 35.0                            | 3.15                        | 1.76 | 0.91 | 2.77 | 1.99 | 0.92 | 3.15 | 2.27 | 0.93 | 3.15 | 2.52 | 0.93 | 3.53 | 2.54 | 0.93 | 3.91 | 2.66 | 0.94 | 3.91 | 2.97 | 0.94 |
| 40.0                            | 2.89                        | 1.62 | 0.93 | 2.51 | 1.81 | 0.94 | 2.89 | 2.08 | 0.95 | 2.89 | 2.31 | 0.96 | 3.27 | 2.35 | 0.97 | 3.65 | 2.48 | 0.98 | 3.65 | 2.77 | 0.99 |
| 43.0                            | 2.73                        | 1.53 | 0.93 | 2.35 | 1.69 | 0.94 | 2.73 | 1.97 | 0.96 | 2.73 | 2.18 | 0.97 | 3.11 | 2.24 | 0.98 | 3.49 | 2.37 | 1.00 | 3.49 | 2.65 | 1.01 |
| 46.0                            | 2.57                        | 1.44 | 0.95 | 2.19 | 1.58 | 0.96 | 2.57 | 1.85 | 0.98 | 2.57 | 2.06 | 0.99 | 2.95 | 2.12 | 1.00 | 3.33 | 2.26 | 1.02 | 3.33 | 2.53 | 1.04 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.29                        | 0.92 | 2.24 | 0.94 | 2.20 | 0.96 | 2.20 | 0.96 | 2.20 | 0.97 | 2.20 | 0.98 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.89                        | 1.07 | 3.81 | 1.09 | 3.74 | 1.11 | 3.74 | 1.12 | 3.74 | 1.12 | 3.74 | 1.13 |
| 2.0                             | 4.10                        | 1.09 | 4.02 | 1.11 | 3.94 | 1.13 | 3.94 | 1.14 | 3.94 | 1.14 | 3.94 | 1.15 |
| 5.0                             | 3.32                        | 0.87 | 3.25 | 0.89 | 3.19 | 0.91 | 3.16 | 0.91 | 3.13 | 0.92 | 3.06 | 0.93 |
| 7.0                             | 3.43                        | 0.87 | 3.37 | 0.89 | 3.30 | 0.91 | 3.27 | 0.91 | 3.27 | 0.92 | 3.23 | 0.93 |
| 10.0                            | 3.60                        | 0.88 | 3.53 | 0.89 | 3.46 | 0.91 | 3.43 | 0.92 | 3.43 | 0.92 | 3.40 | 0.93 |
| 15.0                            | 3.89                        | 0.88 | 3.81 | 0.90 | 3.74 | 0.92 | 3.70 | 0.92 | 3.70 | 0.93 | 3.66 | 0.94 |
| 20.0                            | 4.17                        | 0.89 | 4.09 | 0.91 | 4.01 | 0.93 | 3.97 | 0.93 | 3.97 | 0.93 | 3.93 | 0.94 |
| 24.0                            | 4.40                        | 0.89 | 4.31 | 0.91 | 4.23 | 0.93 | 4.19 | 0.93 | 4.19 | 0.94 | 4.15 | 0.95 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

AR09HSSDAWKNEU + AR09HSSDAWKXEU

### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
| -10.0                           | 2.80                        | 1.57 | 0.16 | 2.42 | 1.74 | 0.16 | 2.80 | 2.02 | 0.16 | 2.80 | 2.24 | 0.16 | 3.18 | 2.29 | 0.16 | 3.56 | 2.42 | 0.16 | 3.56 | 2.71 | 0.16 |
| 0.0                             | 2.90                        | 1.62 | 0.25 | 2.52 | 1.81 | 0.25 | 2.90 | 2.09 | 0.25 | 2.90 | 2.32 | 0.25 | 3.28 | 2.36 | 0.25 | 3.66 | 2.49 | 0.25 | 3.66 | 2.78 | 0.25 |
| 10.0                            | 3.00                        | 1.68 | 0.25 | 2.62 | 1.89 | 0.25 | 3.00 | 2.16 | 0.25 | 3.00 | 2.40 | 0.39 | 3.38 | 2.43 | 0.25 | 3.76 | 2.56 | 0.25 | 3.76 | 2.86 | 0.25 |
| 20.0                            | 3.10                        | 1.74 | 0.46 | 2.72 | 1.96 | 0.47 | 3.10 | 2.23 | 0.47 | 3.10 | 2.48 | 0.47 | 3.48 | 2.51 | 0.48 | 3.86 | 2.62 | 0.48 | 3.86 | 2.93 | 0.49 |
| 25.0                            | 3.13                        | 1.75 | 0.56 | 2.75 | 1.98 | 0.56 | 3.13 | 2.25 | 0.57 | 3.13 | 2.50 | 0.57 | 3.51 | 2.53 | 0.58 | 3.89 | 2.65 | 0.58 | 3.89 | 2.96 | 0.59 |
| 32.0                            | 3.18                        | 1.78 | 0.71 | 2.80 | 2.02 | 0.71 | 3.18 | 2.29 | 0.72 | 3.18 | 2.54 | 0.72 | 3.56 | 2.56 | 0.73 | 3.94 | 2.68 | 0.73 | 3.94 | 2.99 | 0.74 |
| 35.0                            | 3.20                        | 1.79 | 0.78 | 2.82 | 2.03 | 0.79 | 3.20 | 2.30 | 0.80 | 3.20 | 2.56 | 0.80 | 3.58 | 2.58 | 0.80 | 3.96 | 2.69 | 0.81 | 3.96 | 3.01 | 0.81 |
| 40.0                            | 2.90                        | 1.62 | 0.87 | 2.52 | 1.81 | 0.88 | 2.90 | 2.09 | 0.89 | 2.90 | 2.32 | 0.90 | 3.28 | 2.36 | 0.91 | 3.66 | 2.49 | 0.92 | 3.66 | 2.78 | 0.93 |
| 43.0                            | 2.73                        | 1.53 | 0.92 | 2.35 | 1.69 | 0.93 | 2.73 | 1.97 | 0.95 | 2.73 | 2.18 | 0.96 | 3.11 | 2.24 | 0.97 | 3.49 | 2.37 | 0.99 | 3.49 | 2.65 | 1.00 |
| 46.0                            | 2.55                        | 1.43 | 0.98 | 2.17 | 1.56 | 0.99 | 2.55 | 1.84 | 1.01 | 2.55 | 2.04 | 1.02 | 2.93 | 2.11 | 1.03 | 3.31 | 2.25 | 1.05 | 3.31 | 2.52 | 1.07 |

### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
| -15.0                           | 3.05                        | 1.29 | 2.99 | 1.31 | 2.93 | 1.34 | 2.93 | 1.34 | 2.93 | 1.35 | 2.93 | 1.36 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.48                        | 1.20 | 4.39 | 1.23 | 4.30 | 1.25 | 4.30 | 1.26 | 4.30 | 1.26 | 4.30 | 1.28 |
| 2.0                             | 4.67                        | 1.19 | 4.57 | 1.22 | 4.49 | 1.24 | 4.49 | 1.25 | 4.49 | 1.25 | 4.49 | 1.26 |
| 5.0                             | 3.22                        | 0.63 | 3.16 | 0.64 | 3.10 | 0.65 | 3.06 | 0.65 | 3.03 | 0.66 | 2.97 | 0.66 |
| 7.0                             | 3.33                        | 0.64 | 3.26 | 0.66 | 3.20 | 0.67 | 3.17 | 0.67 | 3.17 | 0.68 | 3.14 | 0.68 |
| 10.0                            | 3.49                        | 0.66 | 3.42 | 0.68 | 3.36 | 0.70 | 3.32 | 0.70 | 3.32 | 0.71 | 3.29 | 0.71 |
| 15.0                            | 3.77                        | 0.72 | 3.69 | 0.73 | 3.62 | 0.75 | 3.58 | 0.75 | 3.58 | 0.75 | 3.55 | 0.76 |
| 20.0                            | 4.04                        | 0.76 | 3.96 | 0.78 | 3.88 | 0.79 | 3.84 | 0.80 | 3.84 | 0.80 | 3.80 | 0.81 |
| 24.0                            | 4.26                        | 0.80 | 4.17 | 0.81 | 4.09 | 0.83 | 4.05 | 0.83 | 4.05 | 0.84 | 4.01 | 0.85 |

AR09HSSDBWKNEU + AR09HSSDBWKXEU

### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
| -10.0                           | 2.72                        | 1.52 | 0.44 | 2.34 | 1.68 | 0.44 | 2.72 | 1.96 | 0.44 | 2.72 | 2.18 | 0.44 | 3.10 | 2.23 | 0.45 | 3.48 | 2.37 | 0.45 | 3.48 | 2.64 | 0.45 |
| 0.0                             | 2.69                        | 1.51 | 0.43 | 2.31 | 1.66 | 0.43 | 2.69 | 1.94 | 0.44 | 2.69 | 2.15 | 0.44 | 3.07 | 2.21 | 0.44 | 3.45 | 2.35 | 0.44 | 3.45 | 2.62 | 0.44 |
| 10.0                            | 2.67                        | 1.50 | 0.43 | 2.29 | 1.65 | 0.43 | 2.67 | 1.92 | 0.44 | 2.67 | 2.14 | 0.44 | 3.05 | 2.20 | 0.44 | 3.43 | 2.33 | 0.44 | 3.43 | 2.61 | 0.44 |
| 20.0                            | 2.64                        | 1.48 | 0.44 | 2.26 | 1.63 | 0.44 | 2.64 | 1.90 | 0.44 | 2.64 | 2.11 | 0.44 | 3.02 | 2.17 | 0.45 | 3.40 | 2.31 | 0.45 | 3.40 | 2.58 | 0.46 |
| 25.0                            | 2.80                        | 1.57 | 0.55 | 2.42 | 1.74 | 0.55 | 2.80 | 2.02 | 0.56 | 2.80 | 2.24 | 0.56 | 3.18 | 2.29 | 0.57 | 3.56 | 2.42 | 0.57 | 3.56 | 2.71 | 0.58 |
| 32.0                            | 3.02                        | 1.69 | 0.73 | 2.64 | 1.90 | 0.73 | 3.02 | 2.17 | 0.74 | 3.02 | 2.42 | 0.74 | 3.40 | 2.45 | 0.75 | 3.78 | 2.57 | 0.75 | 3.78 | 2.87 | 0.76 |
| 35.0                            | 3.11                        | 1.74 | 0.82 | 2.73 | 1.97 | 0.82 | 3.11 | 2.24 | 0.83 | 3.11 | 2.49 | 0.83 | 3.49 | 2.51 | 0.84 | 3.87 | 2.63 | 0.84 | 3.87 | 2.94 | 0.84 |
| 40.0                            | 2.78                        | 1.56 | 0.88 | 2.40 | 1.73 | 0.89 | 2.78 | 2.00 | 0.90 | 2.78 | 2.22 | 0.91 | 3.16 | 2.28 | 0.92 | 3.54 | 2.41 | 0.93 | 3.54 | 2.69 | 0.94 |
| 43.0                            | 2.58                        | 1.44 | 0.92 | 2.20 | 1.58 | 0.93 | 2.58 | 1.86 | 0.95 | 2.58 | 2.06 | 0.96 | 2.96 | 2.13 | 0.97 | 3.34 | 2.27 | 0.99 | 3.34 | 2.54 | 1.00 |
| 46.0                            | 2.39                        | 1.34 | 0.97 | 2.01 | 1.44 | 0.98 | 2.39 | 1.72 | 1.00 | 2.39 | 1.91 | 1.01 | 2.77 | 1.99 | 1.02 | 3.15 | 2.14 | 1.04 | 3.15 | 2.39 | 1.06 |

### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
| -15.0                           | 2.08                        | 0.91 | 2.04 | 0.93 | 2.00 | 0.95 | 2.00 | 0.95 | 2.00 | 0.96 | 2.00 | 0.97 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.19                        | 1.09 | 4.11 | 1.12 | 4.03 | 1.14 | 4.03 | 1.15 | 4.03 | 1.15 | 4.03 | 1.16 |
| 2.0                             | 4.47                        | 1.12 | 4.39 | 1.14 | 4.30 | 1.17 | 4.30 | 1.17 | 4.30 | 1.18 | 4.30 | 1.19 |
| 5.0                             | 3.21                        | 0.73 | 3.15 | 0.75 | 3.08 | 0.76 | 3.05 | 0.77 | 3.02 | 0.77 | 2.96 | 0.78 |
| 7.0                             | 3.33                        | 0.75 | 3.26 | 0.76 | 3.20 | 0.78 | 3.17 | 0.78 | 3.17 | 0.79 | 3.14 | 0.80 |
| 10.0                            | 3.51                        | 0.77 | 3.44 | 0.78 | 3.37 | 0.81 | 3.34 | 0.81 | 3.34 | 0.81 | 3.31 | 0.82 |
| 15.0                            | 3.81                        | 0.82 | 3.73 | 0.83 | 3.66 | 0.85 | 3.62 | 0.85 | 3.62 | 0.86 | 3.59 | 0.87 |
| 20.0                            | 4.11                        | 0.86 | 4.03 | 0.88 | 3.95 | 0.89 | 3.91 | 0.90 | 3.91 | 0.90 | 3.87 | 0.91 |
| 24.0                            | 4.35                        | 0.89 | 4.26 | 0.91 | 4.18 | 0.93 | 4.14 | 0.93 | 4.14 | 0.94 | 4.10 | 0.95 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR09JSFNCWKNET + AR09JSFNCWKXET

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.33                        | 1.30 | 0.58 | 1.95 | 1.40 | 0.58 | 2.33 | 1.68 | 0.59 | 2.33 | 1.86 | 0.59 | 2.71 | 1.95 | 0.59 | 3.09 | 2.10 | 0.59 | 3.09 | 2.35 | 0.60 |
| 0.0                             | 2.35                        | 1.32 | 0.57 | 1.97 | 1.42 | 0.57 | 2.35 | 1.69 | 0.58 | 2.35 | 1.88 | 0.58 | 2.73 | 1.97 | 0.58 | 3.11 | 2.11 | 0.58 | 3.11 | 2.36 | 0.59 |
| 10.0                            | 2.36                        | 1.32 | 0.57 | 1.98 | 1.43 | 0.57 | 2.36 | 1.70 | 0.58 | 2.36 | 1.89 | 0.57 | 2.74 | 1.97 | 0.58 | 3.12 | 2.12 | 0.58 | 3.12 | 2.37 | 0.59 |
| 20.0                            | 2.38                        | 1.33 | 0.55 | 2.00 | 1.44 | 0.55 | 2.38 | 1.71 | 0.56 | 2.38 | 1.90 | 0.56 | 2.76 | 1.99 | 0.57 | 3.14 | 2.14 | 0.57 | 3.14 | 2.39 | 0.58 |
| 25.0                            | 2.59                        | 1.45 | 0.65 | 2.21 | 1.59 | 0.65 | 2.59 | 1.86 | 0.66 | 2.59 | 2.07 | 0.66 | 2.97 | 2.14 | 0.67 | 3.35 | 2.28 | 0.67 | 3.35 | 2.55 | 0.68 |
| 32.0                            | 2.88                        | 1.61 | 0.79 | 2.50 | 1.80 | 0.80 | 2.88 | 2.07 | 0.81 | 2.88 | 2.30 | 0.81 | 3.26 | 2.35 | 0.82 | 3.64 | 2.48 | 0.83 | 3.64 | 2.77 | 0.83 |
| 35.0                            | 3.00                        | 1.68 | 0.87 | 2.62 | 1.89 | 0.88 | 3.00 | 2.16 | 0.89 | 3.00 | 2.40 | 0.89 | 3.38 | 2.43 | 0.89 | 3.76 | 2.56 | 0.90 | 3.76 | 2.86 | 0.90 |
| 40.0                            | 2.69                        | 1.51 | 0.88 | 2.31 | 1.66 | 0.89 | 2.69 | 1.94 | 0.90 | 2.69 | 2.15 | 0.91 | 3.07 | 2.21 | 0.92 | 3.45 | 2.35 | 0.93 | 3.45 | 2.62 | 0.94 |
| 43.0                            | 2.51                        | 1.41 | 0.89 | 2.13 | 1.53 | 0.90 | 2.51 | 1.81 | 0.92 | 2.51 | 2.01 | 0.93 | 2.89 | 2.08 | 0.94 | 3.27 | 2.22 | 0.96 | 3.27 | 2.49 | 0.97 |
| 46.0                            | 2.32                        | 1.30 | 0.90 | 1.94 | 1.40 | 0.91 | 2.32 | 1.67 | 0.93 | 2.32 | 1.86 | 0.94 | 2.70 | 1.94 | 0.95 | 3.08 | 2.09 | 0.97 | 3.08 | 2.34 | 0.99 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 1.95                        | 1.07 | 1.91 | 1.09 | 1.87 | 1.11 | 1.87 | 1.12 | 1.87 | 1.12 | 1.87 | 1.13 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.35                        | 0.95 | 3.28 | 0.97 | 3.22 | 0.99 | 3.22 | 1.00 | 3.22 | 1.00 | 3.22 | 1.01 |
| 2.0                             | 3.54                        | 0.94 | 3.47 | 0.96 | 3.40 | 0.98 | 3.40 | 0.98 | 3.40 | 0.98 | 3.40 | 0.99 |
| 5.0                             | 3.26                        | 0.83 | 3.20 | 0.85 | 3.14 | 0.87 | 3.10 | 0.87 | 3.07 | 0.88 | 3.01 | 0.89 |
| 7.0                             | 3.33                        | 0.85 | 3.26 | 0.87 | 3.20 | 0.89 | 3.17 | 0.89 | 3.17 | 0.90 | 3.14 | 0.91 |
| 10.0                            | 3.43                        | 0.88 | 3.36 | 0.89 | 3.30 | 0.92 | 3.26 | 0.93 | 3.26 | 0.93 | 3.23 | 0.94 |
| 15.0                            | 3.60                        | 0.94 | 3.53 | 0.96 | 3.46 | 0.98 | 3.42 | 0.98 | 3.42 | 0.99 | 3.39 | 1.00 |
| 20.0                            | 3.77                        | 0.99 | 3.69 | 1.01 | 3.62 | 1.04 | 3.58 | 1.04 | 3.58 | 1.05 | 3.55 | 1.06 |
| 24.0                            | 3.90                        | 1.04 | 3.83 | 1.06 | 3.75 | 1.08 | 3.71 | 1.09 | 3.71 | 1.09 | 3.68 | 1.10 |

### AR09JSFNCWKNZE + AR09JSFNCWKXZE

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.33                        | 1.30 | 0.58 | 1.95 | 1.40 | 0.58 | 2.33 | 1.68 | 0.59 | 2.33 | 1.86 | 0.59 | 2.71 | 1.95 | 0.59 | 3.09 | 2.10 | 0.59 | 3.09 | 2.35 | 0.60 |
| 0.0                             | 2.35                        | 1.32 | 0.57 | 1.97 | 1.42 | 0.57 | 2.35 | 1.69 | 0.58 | 2.35 | 1.88 | 0.58 | 2.73 | 1.97 | 0.58 | 3.11 | 2.11 | 0.58 | 3.11 | 2.36 | 0.59 |
| 10.0                            | 2.36                        | 1.32 | 0.57 | 1.98 | 1.43 | 0.57 | 2.36 | 1.70 | 0.58 | 2.36 | 1.89 | 0.57 | 2.74 | 1.97 | 0.58 | 3.12 | 2.12 | 0.58 | 3.12 | 2.37 | 0.59 |
| 20.0                            | 2.38                        | 1.33 | 0.55 | 2.00 | 1.44 | 0.55 | 2.38 | 1.71 | 0.56 | 2.38 | 1.90 | 0.56 | 2.76 | 1.99 | 0.57 | 3.14 | 2.14 | 0.57 | 3.14 | 2.39 | 0.58 |
| 25.0                            | 2.59                        | 1.45 | 0.65 | 2.21 | 1.59 | 0.65 | 2.59 | 1.86 | 0.66 | 2.59 | 2.07 | 0.66 | 2.97 | 2.14 | 0.67 | 3.35 | 2.28 | 0.67 | 3.35 | 2.55 | 0.68 |
| 32.0                            | 2.88                        | 1.61 | 0.79 | 2.50 | 1.80 | 0.80 | 2.88 | 2.07 | 0.81 | 2.88 | 2.30 | 0.81 | 3.26 | 2.35 | 0.82 | 3.64 | 2.48 | 0.83 | 3.64 | 2.77 | 0.83 |
| 35.0                            | 3.00                        | 1.68 | 0.87 | 2.62 | 1.89 | 0.88 | 3.00 | 2.16 | 0.89 | 3.00 | 2.40 | 0.89 | 3.38 | 2.43 | 0.89 | 3.76 | 2.56 | 0.90 | 3.76 | 2.86 | 0.90 |
| 40.0                            | 2.69                        | 1.51 | 0.88 | 2.31 | 1.66 | 0.89 | 2.69 | 1.94 | 0.90 | 2.69 | 2.15 | 0.91 | 3.07 | 2.21 | 0.92 | 3.45 | 2.35 | 0.93 | 3.45 | 2.62 | 0.94 |
| 43.0                            | 2.51                        | 1.41 | 0.89 | 2.13 | 1.53 | 0.90 | 2.51 | 1.81 | 0.92 | 2.51 | 2.01 | 0.93 | 2.89 | 2.08 | 0.94 | 3.27 | 2.22 | 0.96 | 3.27 | 2.49 | 0.97 |
| 46.0                            | 2.32                        | 1.30 | 0.90 | 1.94 | 1.40 | 0.91 | 2.32 | 1.67 | 0.93 | 2.32 | 1.86 | 0.94 | 2.70 | 1.94 | 0.95 | 3.08 | 2.09 | 0.97 | 3.08 | 2.34 | 0.99 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 1.95                        | 1.07 | 1.91 | 1.09 | 1.87 | 1.11 | 1.87 | 1.12 | 1.87 | 1.12 | 1.87 | 1.13 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.35                        | 0.95 | 3.28 | 0.97 | 3.22 | 0.99 | 3.22 | 1.00 | 3.22 | 1.00 | 3.22 | 1.01 |
| 2.0                             | 3.54                        | 0.94 | 3.47 | 0.96 | 3.40 | 0.98 | 3.40 | 0.98 | 3.40 | 0.98 | 3.40 | 0.99 |
| 5.0                             | 3.26                        | 0.83 | 3.20 | 0.85 | 3.14 | 0.87 | 3.10 | 0.87 | 3.07 | 0.88 | 3.01 | 0.89 |
| 7.0                             | 3.33                        | 0.85 | 3.26 | 0.87 | 3.20 | 0.89 | 3.17 | 0.89 | 3.17 | 0.90 | 3.14 | 0.91 |
| 10.0                            | 3.43                        | 0.88 | 3.36 | 0.89 | 3.30 | 0.92 | 3.26 | 0.93 | 3.26 | 0.93 | 3.23 | 0.94 |
| 15.0                            | 3.60                        | 0.94 | 3.53 | 0.96 | 3.46 | 0.98 | 3.42 | 0.98 | 3.42 | 0.99 | 3.39 | 1.00 |
| 20.0                            | 3.77                        | 0.99 | 3.69 | 1.01 | 3.62 | 1.04 | 3.58 | 1.04 | 3.58 | 1.05 | 3.55 | 1.06 |
| 24.0                            | 3.90                        | 1.04 | 3.83 | 1.06 | 3.75 | 1.08 | 3.71 | 1.09 | 3.71 | 1.09 | 3.68 | 1.10 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR09JSFSBURNET + AR09JSFSBURXET

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.33                        | 1.30 | 0.58 | 1.95 | 1.40 | 0.58 | 2.33 | 1.68 | 0.59 | 2.33 | 1.86 | 0.59 | 2.71 | 1.95 | 0.59 | 3.09 | 2.10 | 0.59 | 3.09 | 2.35 | 0.60 |
| 0.0                             | 2.35                        | 1.32 | 0.57 | 1.97 | 1.42 | 0.57 | 2.35 | 1.69 | 0.58 | 2.35 | 1.88 | 0.58 | 2.73 | 1.97 | 0.58 | 3.11 | 2.11 | 0.58 | 3.11 | 2.36 | 0.59 |
| 10.0                            | 2.36                        | 1.32 | 0.57 | 1.98 | 1.43 | 0.57 | 2.36 | 1.70 | 0.58 | 2.36 | 1.89 | 0.57 | 2.74 | 1.97 | 0.58 | 3.12 | 2.12 | 0.58 | 3.12 | 2.37 | 0.59 |
| 20.0                            | 2.38                        | 1.33 | 0.55 | 2.00 | 1.44 | 0.55 | 2.38 | 1.71 | 0.56 | 2.38 | 1.90 | 0.56 | 2.76 | 1.99 | 0.57 | 3.14 | 2.14 | 0.57 | 3.14 | 2.39 | 0.58 |
| 25.0                            | 2.59                        | 1.45 | 0.65 | 2.21 | 1.59 | 0.65 | 2.59 | 1.86 | 0.66 | 2.59 | 2.07 | 0.66 | 2.97 | 2.14 | 0.67 | 3.35 | 2.28 | 0.67 | 3.35 | 2.55 | 0.68 |
| 32.0                            | 2.88                        | 1.61 | 0.79 | 2.50 | 1.80 | 0.80 | 2.88 | 2.07 | 0.81 | 2.88 | 2.30 | 0.81 | 3.26 | 2.35 | 0.82 | 3.64 | 2.48 | 0.83 | 3.64 | 2.77 | 0.83 |
| 35.0                            | 3.00                        | 1.68 | 0.87 | 2.62 | 1.89 | 0.88 | 3.00 | 2.16 | 0.89 | 3.00 | 2.40 | 0.89 | 3.38 | 2.43 | 0.89 | 3.76 | 2.56 | 0.90 | 3.76 | 2.86 | 0.90 |
| 40.0                            | 2.69                        | 1.51 | 0.88 | 2.31 | 1.66 | 0.89 | 2.69 | 1.94 | 0.90 | 2.69 | 2.15 | 0.91 | 3.07 | 2.21 | 0.92 | 3.45 | 2.35 | 0.93 | 3.45 | 2.62 | 0.94 |
| 43.0                            | 2.51                        | 1.41 | 0.89 | 2.13 | 1.53 | 0.90 | 2.51 | 1.81 | 0.92 | 2.51 | 2.01 | 0.93 | 2.89 | 2.08 | 0.94 | 3.27 | 2.22 | 0.96 | 3.27 | 2.49 | 0.97 |
| 46.0                            | 2.32                        | 1.30 | 0.90 | 1.94 | 1.40 | 0.91 | 2.32 | 1.67 | 0.93 | 2.32 | 1.86 | 0.94 | 2.70 | 1.94 | 0.95 | 3.08 | 2.09 | 0.97 | 3.08 | 2.34 | 0.99 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 1.95                        | 1.07 | 1.91 | 1.09 | 1.87 | 1.11 | 1.87 | 1.12 | 1.87 | 1.12 | 1.87 | 1.13 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.35                        | 0.95 | 3.28 | 0.97 | 3.22 | 0.99 | 3.22 | 1.00 | 3.22 | 1.00 | 3.22 | 1.01 |
| 2.0                             | 3.54                        | 0.94 | 3.47 | 0.96 | 3.40 | 0.98 | 3.40 | 0.98 | 3.40 | 0.98 | 3.40 | 0.99 |
| 5.0                             | 3.26                        | 0.83 | 3.20 | 0.85 | 3.14 | 0.87 | 3.10 | 0.87 | 3.07 | 0.88 | 3.01 | 0.89 |
| 7.0                             | 3.33                        | 0.85 | 3.26 | 0.87 | 3.20 | 0.89 | 3.17 | 0.89 | 3.17 | 0.90 | 3.14 | 0.91 |
| 10.0                            | 3.43                        | 0.88 | 3.36 | 0.89 | 3.30 | 0.92 | 3.26 | 0.93 | 3.26 | 0.93 | 3.23 | 0.94 |
| 15.0                            | 3.60                        | 0.94 | 3.53 | 0.96 | 3.46 | 0.98 | 3.42 | 0.98 | 3.42 | 0.99 | 3.39 | 1.00 |
| 20.0                            | 3.77                        | 0.99 | 3.69 | 1.01 | 3.62 | 1.04 | 3.58 | 1.04 | 3.58 | 1.05 | 3.55 | 1.06 |
| 24.0                            | 3.90                        | 1.04 | 3.83 | 1.06 | 3.75 | 1.08 | 3.71 | 1.09 | 3.71 | 1.09 | 3.68 | 1.10 |

### AR09JSPFAWKNEU + AR09JSPFAWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.75                        | 1.54 | 0.64 | 2.37 | 1.71 | 0.64 | 2.75 | 1.98 | 0.65 | 2.75 | 2.20 | 0.65 | 3.13 | 2.25 | 0.65 | 3.51 | 2.39 | 0.65 | 3.51 | 2.67 | 0.66 |
| 0.0                             | 2.87                        | 1.61 | 0.64 | 2.49 | 1.79 | 0.64 | 2.87 | 2.07 | 0.65 | 2.87 | 2.30 | 0.65 | 3.25 | 2.34 | 0.65 | 3.63 | 2.47 | 0.65 | 3.63 | 2.76 | 0.66 |
| 10.0                            | 2.98                        | 1.67 | 0.64 | 2.60 | 1.87 | 0.64 | 2.98 | 2.15 | 0.65 | 2.98 | 2.38 | 0.65 | 3.36 | 2.42 | 0.65 | 3.74 | 2.54 | 0.65 | 3.74 | 2.84 | 0.66 |
| 20.0                            | 3.10                        | 1.74 | 0.64 | 2.72 | 1.96 | 0.64 | 3.10 | 2.23 | 0.65 | 3.10 | 2.48 | 0.65 | 3.48 | 2.51 | 0.66 | 3.86 | 2.62 | 0.66 | 3.86 | 2.93 | 0.67 |
| 25.0                            | 3.10                        | 1.74 | 0.68 | 2.72 | 1.96 | 0.68 | 3.10 | 2.23 | 0.69 | 3.10 | 2.48 | 0.69 | 3.48 | 2.51 | 0.70 | 3.86 | 2.62 | 0.70 | 3.86 | 2.93 | 0.71 |
| 32.0                            | 3.11                        | 1.74 | 0.74 | 2.73 | 1.97 | 0.74 | 3.11 | 2.24 | 0.75 | 3.11 | 2.49 | 0.75 | 3.49 | 2.51 | 0.76 | 3.87 | 2.63 | 0.77 | 3.87 | 2.94 | 0.77 |
| 35.0                            | 3.11                        | 1.74 | 0.76 | 2.73 | 1.97 | 0.77 | 3.11 | 2.24 | 0.78 | 3.11 | 2.49 | 0.78 | 3.49 | 2.51 | 0.78 | 3.87 | 2.63 | 0.79 | 3.87 | 2.94 | 0.79 |
| 40.0                            | 2.76                        | 1.55 | 0.83 | 2.38 | 1.71 | 0.84 | 2.76 | 1.99 | 0.85 | 2.76 | 2.21 | 0.86 | 3.14 | 2.26 | 0.87 | 3.52 | 2.39 | 0.88 | 3.52 | 2.68 | 0.89 |
| 43.0                            | 2.56                        | 1.43 | 0.87 | 2.18 | 1.57 | 0.88 | 2.56 | 1.84 | 0.90 | 2.56 | 2.05 | 0.91 | 2.94 | 2.12 | 0.92 | 3.32 | 2.26 | 0.93 | 3.32 | 2.52 | 0.95 |
| 46.0                            | 2.35                        | 1.32 | 0.92 | 1.97 | 1.42 | 0.93 | 2.35 | 1.69 | 0.95 | 2.35 | 1.88 | 0.96 | 2.73 | 1.97 | 0.97 | 3.11 | 2.11 | 0.99 | 3.11 | 2.36 | 1.01 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 3.00                        | 1.56 | 2.94 | 1.59 | 2.88 | 1.62 | 2.88 | 1.63 | 2.88 | 1.64 | 2.88 | 1.65 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.58                        | 1.29 | 4.49 | 1.32 | 4.40 | 1.35 | 4.40 | 1.35 | 4.40 | 1.36 | 4.40 | 1.37 |
| 2.0                             | 4.79                        | 1.26 | 4.69 | 1.28 | 4.60 | 1.31 | 4.60 | 1.32 | 4.60 | 1.32 | 4.60 | 1.34 |
| 5.0                             | 3.20                        | 0.72 | 3.14 | 0.73 | 3.08 | 0.75 | 3.05 | 0.75 | 3.01 | 0.76 | 2.95 | 0.76 |
| 7.0                             | 3.33                        | 0.74 | 3.26 | 0.75 | 3.20 | 0.77 | 3.17 | 0.77 | 3.17 | 0.78 | 3.14 | 0.79 |
| 10.0                            | 3.52                        | 0.76 | 3.45 | 0.78 | 3.39 | 0.80 | 3.35 | 0.81 | 3.35 | 0.81 | 3.32 | 0.82 |
| 15.0                            | 3.84                        | 0.82 | 3.77 | 0.84 | 3.69 | 0.85 | 3.66 | 0.86 | 3.66 | 0.86 | 3.62 | 0.87 |
| 20.0                            | 4.16                        | 0.87 | 4.08 | 0.89 | 4.00 | 0.91 | 3.96 | 0.91 | 3.96 | 0.92 | 3.92 | 0.93 |
| 24.0                            | 4.42                        | 0.91 | 4.34 | 0.93 | 4.25 | 0.95 | 4.21 | 0.95 | 4.21 | 0.96 | 4.17 | 0.97 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

AR09JSPFBWKNEU + AR09JSPFBWKXEU

## Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.72                        | 1.52 | 0.44 | 2.34 | 1.68 | 0.44 | 2.72 | 1.96 | 0.44 | 2.72 | 2.18 | 0.44 | 3.10 | 2.23 | 0.45 | 3.48 | 2.37 | 0.45 | 3.48 | 2.64 | 0.45 |
| 0.0                             | 2.69                        | 1.51 | 0.43 | 2.31 | 1.66 | 0.43 | 2.69 | 1.94 | 0.44 | 2.69 | 2.15 | 0.44 | 3.07 | 2.21 | 0.44 | 3.45 | 2.35 | 0.44 | 3.45 | 2.62 | 0.44 |
| 10.0                            | 2.67                        | 1.50 | 0.43 | 2.29 | 1.65 | 0.43 | 2.67 | 1.92 | 0.44 | 2.67 | 2.14 | 0.44 | 3.05 | 2.20 | 0.44 | 3.43 | 2.33 | 0.44 | 3.43 | 2.61 | 0.44 |
| 20.0                            | 2.64                        | 1.48 | 0.44 | 2.26 | 1.63 | 0.44 | 2.64 | 1.90 | 0.44 | 2.64 | 2.11 | 0.44 | 3.02 | 2.17 | 0.45 | 3.40 | 2.31 | 0.45 | 3.40 | 2.58 | 0.46 |
| 25.0                            | 2.80                        | 1.57 | 0.55 | 2.42 | 1.74 | 0.55 | 2.80 | 2.02 | 0.56 | 2.80 | 2.24 | 0.56 | 3.18 | 2.29 | 0.57 | 3.56 | 2.42 | 0.57 | 3.56 | 2.71 | 0.58 |
| 32.0                            | 3.02                        | 1.69 | 0.73 | 2.64 | 1.90 | 0.73 | 3.02 | 2.17 | 0.74 | 3.02 | 2.42 | 0.74 | 3.40 | 2.45 | 0.75 | 3.78 | 2.57 | 0.75 | 3.78 | 2.87 | 0.76 |
| 35.0                            | 3.11                        | 1.74 | 0.82 | 2.73 | 1.97 | 0.82 | 3.11 | 2.24 | 0.83 | 3.11 | 2.49 | 0.83 | 3.49 | 2.51 | 0.84 | 3.87 | 2.63 | 0.84 | 3.87 | 2.94 | 0.84 |
| 40.0                            | 2.78                        | 1.56 | 0.88 | 2.40 | 1.73 | 0.89 | 2.78 | 2.00 | 0.90 | 2.78 | 2.22 | 0.91 | 3.16 | 2.28 | 0.92 | 3.54 | 2.41 | 0.93 | 3.54 | 2.69 | 0.94 |
| 43.0                            | 2.58                        | 1.44 | 0.92 | 2.20 | 1.58 | 0.93 | 2.58 | 1.86 | 0.95 | 2.58 | 2.06 | 0.96 | 2.96 | 2.13 | 0.97 | 3.34 | 2.27 | 0.99 | 3.34 | 2.54 | 1.00 |
| 46.0                            | 2.39                        | 1.34 | 0.97 | 2.01 | 1.44 | 0.98 | 2.39 | 1.72 | 1.00 | 2.39 | 1.91 | 1.01 | 2.77 | 1.99 | 1.02 | 3.15 | 2.14 | 1.04 | 3.15 | 2.39 | 1.06 |

## Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.08                        | 0.91 | 2.04 | 0.93 | 2.00 | 0.95 | 2.00 | 0.95 | 2.00 | 0.96 | 2.00 | 0.97 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.19                        | 1.09 | 4.11 | 1.12 | 4.03 | 1.14 | 4.03 | 1.15 | 4.03 | 1.15 | 4.03 | 1.16 |
| 2.0                             | 4.47                        | 1.12 | 4.39 | 1.14 | 4.30 | 1.17 | 4.30 | 1.17 | 4.30 | 1.18 | 4.30 | 1.19 |
| 5.0                             | 3.21                        | 0.73 | 3.15 | 0.75 | 3.08 | 0.76 | 3.05 | 0.77 | 3.02 | 0.77 | 2.96 | 0.78 |
| 7.0                             | 3.33                        | 0.75 | 3.26 | 0.76 | 3.20 | 0.78 | 3.17 | 0.78 | 3.17 | 0.79 | 3.14 | 0.80 |
| 10.0                            | 3.51                        | 0.77 | 3.44 | 0.78 | 3.37 | 0.81 | 3.34 | 0.81 | 3.34 | 0.81 | 3.31 | 0.82 |
| 15.0                            | 3.81                        | 0.82 | 3.73 | 0.83 | 3.66 | 0.85 | 3.62 | 0.85 | 3.62 | 0.86 | 3.59 | 0.87 |
| 20.0                            | 4.11                        | 0.86 | 4.03 | 0.88 | 3.95 | 0.89 | 3.91 | 0.90 | 3.91 | 0.90 | 3.87 | 0.91 |
| 24.0                            | 4.35                        | 0.89 | 4.26 | 0.91 | 4.18 | 0.93 | 4.14 | 0.93 | 4.14 | 0.94 | 4.10 | 0.95 |

AR12HSFNBWKNET + AR12HSFNBWKXET

## Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.55                        | 1.28 | 0.76 | 2.17 | 1.43 | 0.77 | 2.55 | 1.68 | 0.78 | 2.55 | 1.89 | 0.78 | 2.93 | 1.93 | 0.78 | 3.31 | 2.05 | 0.78 | 3.31 | 2.32 | 0.79 |
| 0.0                             | 2.87                        | 1.44 | 0.76 | 2.49 | 1.64 | 0.77 | 2.87 | 1.89 | 0.78 | 2.87 | 2.12 | 0.78 | 3.25 | 2.15 | 0.78 | 3.63 | 2.25 | 0.78 | 3.63 | 2.54 | 0.79 |
| 10.0                            | 3.18                        | 1.59 | 0.76 | 2.80 | 1.85 | 0.77 | 3.18 | 2.10 | 0.78 | 3.18 | 2.35 | 0.77 | 3.56 | 2.35 | 0.78 | 3.94 | 2.44 | 0.78 | 3.94 | 2.76 | 0.79 |
| 20.0                            | 3.50                        | 1.75 | 0.75 | 3.12 | 2.06 | 0.76 | 3.50 | 2.31 | 0.77 | 3.50 | 2.59 | 0.77 | 3.88 | 2.56 | 0.78 | 4.26 | 2.64 | 0.79 | 4.26 | 2.98 | 0.79 |
| 25.0                            | 3.60                        | 1.80 | 0.89 | 3.22 | 2.13 | 0.90 | 3.60 | 2.38 | 0.91 | 3.60 | 2.66 | 0.91 | 3.98 | 2.63 | 0.92 | 4.36 | 2.70 | 0.93 | 4.36 | 3.05 | 0.94 |
| 32.0                            | 3.75                        | 1.88 | 1.10 | 3.37 | 2.22 | 1.10 | 3.75 | 2.48 | 1.11 | 3.75 | 2.78 | 1.12 | 4.13 | 2.73 | 1.13 | 4.51 | 2.80 | 1.14 | 4.51 | 3.16 | 1.15 |
| 35.0                            | 3.81                        | 1.91 | 1.20 | 3.43 | 2.26 | 1.20 | 3.81 | 2.51 | 1.21 | 3.81 | 2.82 | 1.22 | 4.19 | 2.77 | 1.23 | 4.57 | 2.83 | 1.23 | 4.57 | 3.20 | 1.24 |
| 40.0                            | 3.39                        | 1.70 | 1.21 | 3.01 | 1.99 | 1.23 | 3.39 | 2.24 | 1.24 | 3.39 | 2.51 | 1.25 | 3.77 | 2.49 | 1.26 | 4.15 | 2.57 | 1.28 | 4.15 | 2.91 | 1.29 |
| 43.0                            | 3.13                        | 1.57 | 1.22 | 2.75 | 1.82 | 1.23 | 3.13 | 2.07 | 1.26 | 3.13 | 2.32 | 1.27 | 3.51 | 2.32 | 1.29 | 3.89 | 2.41 | 1.30 | 3.89 | 2.72 | 1.32 |
| 46.0                            | 2.88                        | 1.44 | 1.24 | 2.50 | 1.65 | 1.25 | 2.88 | 1.90 | 1.28 | 2.88 | 2.13 | 1.29 | 3.26 | 2.15 | 1.30 | 3.64 | 2.26 | 1.33 | 3.64 | 2.55 | 1.35 |

## Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.15 | 2.65 | 1.18 | 2.60 | 1.20 | 2.60 | 1.21 | 2.60 | 1.21 | 2.60 | 1.22 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.50                        | 1.22 | 4.41 | 1.25 | 4.32 | 1.27 | 4.32 | 1.28 | 4.32 | 1.28 | 4.32 | 1.30 |
| 2.0                             | 4.73                        | 1.23 | 4.64 | 1.25 | 4.55 | 1.28 | 4.55 | 1.29 | 4.55 | 1.29 | 4.55 | 1.31 |
| 5.0                             | 4.03                        | 1.04 | 3.95 | 1.06 | 3.88 | 1.08 | 3.84 | 1.09 | 3.80 | 1.09 | 3.72 | 1.10 |
| 7.0                             | 4.16                        | 1.06 | 4.08 | 1.08 | 4.00 | 1.10 | 3.96 | 1.11 | 3.96 | 1.11 | 3.92 | 1.12 |
| 10.0                            | 4.35                        | 1.07 | 4.27 | 1.10 | 4.19 | 1.13 | 4.14 | 1.13 | 4.14 | 1.14 | 4.10 | 1.15 |
| 15.0                            | 4.68                        | 1.12 | 4.58 | 1.15 | 4.49 | 1.17 | 4.45 | 1.18 | 4.45 | 1.18 | 4.40 | 1.19 |
| 20.0                            | 5.00                        | 1.17 | 4.90 | 1.19 | 4.80 | 1.21 | 4.75 | 1.22 | 4.75 | 1.23 | 4.71 | 1.24 |
| 24.0                            | 5.25                        | 1.20 | 5.15 | 1.23 | 5.05 | 1.25 | 5.00 | 1.26 | 5.00 | 1.26 | 4.95 | 1.28 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR12HSFNMWKNZE + AR12HSFNMWKXZE

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.55                        | 1.28 | 0.76 | 2.17 | 1.43 | 0.77 | 2.55 | 1.68 | 0.78 | 2.55 | 1.89 | 0.78 | 2.93 | 1.93 | 0.78 | 3.31 | 2.05 | 0.78 | 3.31 | 2.32 | 0.79 |
| 0.0                             | 2.87                        | 1.44 | 0.76 | 2.49 | 1.64 | 0.77 | 2.87 | 1.89 | 0.78 | 2.87 | 2.12 | 0.78 | 3.25 | 2.15 | 0.78 | 3.63 | 2.25 | 0.78 | 3.63 | 2.54 | 0.79 |
| 10.0                            | 3.18                        | 1.59 | 0.76 | 2.80 | 1.85 | 0.77 | 3.18 | 2.10 | 0.78 | 3.18 | 2.35 | 0.77 | 3.56 | 2.35 | 0.78 | 3.94 | 2.44 | 0.78 | 3.94 | 2.76 | 0.79 |
| 20.0                            | 3.50                        | 1.75 | 0.75 | 3.12 | 2.06 | 0.76 | 3.50 | 2.31 | 0.77 | 3.50 | 2.59 | 0.77 | 3.88 | 2.56 | 0.78 | 4.26 | 2.64 | 0.79 | 4.26 | 2.98 | 0.79 |
| 25.0                            | 3.60                        | 1.80 | 0.89 | 3.22 | 2.13 | 0.90 | 3.60 | 2.38 | 0.91 | 3.60 | 2.66 | 0.91 | 3.98 | 2.63 | 0.92 | 4.36 | 2.70 | 0.93 | 4.36 | 3.05 | 0.94 |
| 32.0                            | 3.75                        | 1.88 | 1.10 | 3.37 | 2.22 | 1.10 | 3.75 | 2.48 | 1.11 | 3.75 | 2.78 | 1.12 | 4.13 | 2.73 | 1.13 | 4.51 | 2.80 | 1.14 | 4.51 | 3.16 | 1.15 |
| 35.0                            | 3.81                        | 1.91 | 1.20 | 3.43 | 2.26 | 1.20 | 3.81 | 2.51 | 1.21 | 3.81 | 2.82 | 1.22 | 4.19 | 2.77 | 1.23 | 4.57 | 2.83 | 1.23 | 4.57 | 3.20 | 1.24 |
| 40.0                            | 3.39                        | 1.70 | 1.21 | 3.01 | 1.99 | 1.23 | 3.39 | 2.24 | 1.24 | 3.39 | 2.51 | 1.25 | 3.77 | 2.49 | 1.26 | 4.15 | 2.57 | 1.28 | 4.15 | 2.91 | 1.29 |
| 43.0                            | 3.13                        | 1.57 | 1.22 | 2.75 | 1.82 | 1.23 | 3.13 | 2.07 | 1.26 | 3.13 | 2.32 | 1.27 | 3.51 | 2.32 | 1.29 | 3.89 | 2.41 | 1.30 | 3.89 | 2.72 | 1.32 |
| 46.0                            | 2.88                        | 1.44 | 1.24 | 2.50 | 1.65 | 1.25 | 2.88 | 1.90 | 1.28 | 2.88 | 2.13 | 1.29 | 3.26 | 2.15 | 1.30 | 3.64 | 2.26 | 1.33 | 3.64 | 2.55 | 1.35 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.15 | 2.65 | 1.18 | 2.60 | 1.20 | 2.60 | 1.21 | 2.60 | 1.21 | 2.60 | 1.22 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.50                        | 1.22 | 4.41 | 1.25 | 4.32 | 1.27 | 4.32 | 1.28 | 4.32 | 1.28 | 4.32 | 1.30 |
| 2.0                             | 4.73                        | 1.23 | 4.64 | 1.25 | 4.55 | 1.28 | 4.55 | 1.29 | 4.55 | 1.29 | 4.55 | 1.31 |
| 5.0                             | 4.03                        | 1.04 | 3.95 | 1.06 | 3.88 | 1.08 | 3.84 | 1.09 | 3.80 | 1.09 | 3.72 | 1.10 |
| 7.0                             | 4.16                        | 1.06 | 4.08 | 1.08 | 4.00 | 1.10 | 3.96 | 1.11 | 3.96 | 1.11 | 3.92 | 1.12 |
| 10.0                            | 4.35                        | 1.07 | 4.27 | 1.10 | 4.19 | 1.13 | 4.14 | 1.13 | 4.14 | 1.14 | 4.10 | 1.15 |
| 15.0                            | 4.68                        | 1.12 | 4.58 | 1.15 | 4.49 | 1.17 | 4.45 | 1.18 | 4.45 | 1.18 | 4.40 | 1.19 |
| 20.0                            | 5.00                        | 1.17 | 4.90 | 1.19 | 4.80 | 1.21 | 4.75 | 1.22 | 4.75 | 1.23 | 4.71 | 1.24 |
| 24.0                            | 5.25                        | 1.20 | 5.15 | 1.23 | 5.05 | 1.25 | 5.00 | 1.26 | 5.00 | 1.26 | 4.95 | 1.28 |

### AR12HSFSAWKNET + AR12HSFSAWKXET

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.55                        | 1.28 | 0.76 | 2.17 | 1.43 | 0.77 | 2.55 | 1.68 | 0.78 | 2.55 | 1.89 | 0.78 | 2.93 | 1.93 | 0.78 | 3.31 | 2.05 | 0.78 | 3.31 | 2.32 | 0.79 |
| 0.0                             | 2.87                        | 1.44 | 0.76 | 2.49 | 1.64 | 0.77 | 2.87 | 1.89 | 0.78 | 2.87 | 2.12 | 0.78 | 3.25 | 2.15 | 0.78 | 3.63 | 2.25 | 0.78 | 3.63 | 2.54 | 0.79 |
| 10.0                            | 3.18                        | 1.59 | 0.76 | 2.80 | 1.85 | 0.77 | 3.18 | 2.10 | 0.78 | 3.18 | 2.35 | 0.77 | 3.56 | 2.35 | 0.78 | 3.94 | 2.44 | 0.78 | 3.94 | 2.76 | 0.79 |
| 20.0                            | 3.50                        | 1.75 | 0.75 | 3.12 | 2.06 | 0.76 | 3.50 | 2.31 | 0.77 | 3.50 | 2.59 | 0.77 | 3.88 | 2.56 | 0.78 | 4.26 | 2.64 | 0.79 | 4.26 | 2.98 | 0.79 |
| 25.0                            | 3.60                        | 1.80 | 0.89 | 3.22 | 2.13 | 0.90 | 3.60 | 2.38 | 0.91 | 3.60 | 2.66 | 0.91 | 3.98 | 2.63 | 0.92 | 4.36 | 2.70 | 0.93 | 4.36 | 3.05 | 0.94 |
| 32.0                            | 3.75                        | 1.88 | 1.10 | 3.37 | 2.22 | 1.10 | 3.75 | 2.48 | 1.11 | 3.75 | 2.78 | 1.12 | 4.13 | 2.73 | 1.13 | 4.51 | 2.80 | 1.14 | 4.51 | 3.16 | 1.15 |
| 35.0                            | 3.81                        | 1.91 | 1.20 | 3.43 | 2.26 | 1.20 | 3.81 | 2.51 | 1.21 | 3.81 | 2.82 | 1.22 | 4.19 | 2.77 | 1.23 | 4.57 | 2.83 | 1.23 | 4.57 | 3.20 | 1.24 |
| 40.0                            | 3.39                        | 1.70 | 1.21 | 3.01 | 1.99 | 1.23 | 3.39 | 2.24 | 1.24 | 3.39 | 2.51 | 1.25 | 3.77 | 2.49 | 1.26 | 4.15 | 2.57 | 1.28 | 4.15 | 2.91 | 1.29 |
| 43.0                            | 3.13                        | 1.57 | 1.22 | 2.75 | 1.82 | 1.23 | 3.13 | 2.07 | 1.26 | 3.13 | 2.32 | 1.27 | 3.51 | 2.32 | 1.29 | 3.89 | 2.41 | 1.30 | 3.89 | 2.72 | 1.32 |
| 46.0                            | 2.88                        | 1.44 | 1.24 | 2.50 | 1.65 | 1.25 | 2.88 | 1.90 | 1.28 | 2.88 | 2.13 | 1.29 | 3.26 | 2.15 | 1.30 | 3.64 | 2.26 | 1.33 | 3.64 | 2.55 | 1.35 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.15 | 2.65 | 1.18 | 2.60 | 1.20 | 2.60 | 1.21 | 2.60 | 1.21 | 2.60 | 1.22 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.50                        | 1.22 | 4.41 | 1.25 | 4.32 | 1.27 | 4.32 | 1.28 | 4.32 | 1.28 | 4.32 | 1.30 |
| 2.0                             | 4.73                        | 1.23 | 4.64 | 1.25 | 4.55 | 1.28 | 4.55 | 1.29 | 4.55 | 1.29 | 4.55 | 1.31 |
| 5.0                             | 4.03                        | 1.04 | 3.95 | 1.06 | 3.88 | 1.08 | 3.84 | 1.09 | 3.80 | 1.09 | 3.72 | 1.10 |
| 7.0                             | 4.16                        | 1.06 | 4.08 | 1.08 | 4.00 | 1.10 | 3.96 | 1.11 | 3.96 | 1.11 | 3.92 | 1.12 |
| 10.0                            | 4.35                        | 1.07 | 4.27 | 1.10 | 4.19 | 1.13 | 4.14 | 1.13 | 4.14 | 1.14 | 4.10 | 1.15 |
| 15.0                            | 4.68                        | 1.12 | 4.58 | 1.15 | 4.49 | 1.17 | 4.45 | 1.18 | 4.45 | 1.18 | 4.40 | 1.19 |
| 20.0                            | 5.00                        | 1.17 | 4.90 | 1.19 | 4.80 | 1.21 | 4.75 | 1.22 | 4.75 | 1.23 | 4.71 | 1.24 |
| 24.0                            | 5.25                        | 1.20 | 5.15 | 1.23 | 5.05 | 1.25 | 5.00 | 1.26 | 5.00 | 1.26 | 4.95 | 1.28 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4-1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR12HSFSAWKXZE + AR12HSFSAWKXZE

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.55                        | 1.28 | 0.76 | 2.17 | 1.43 | 0.77 | 2.55 | 1.68 | 0.78 | 2.55 | 1.89 | 0.78 | 2.93 | 1.93 | 0.78 | 3.31 | 2.05 | 0.78 | 3.31 | 2.32 | 0.79 |
| 0.0                             | 2.87                        | 1.44 | 0.76 | 2.49 | 1.64 | 0.77 | 2.87 | 1.89 | 0.78 | 2.87 | 2.12 | 0.78 | 3.25 | 2.15 | 0.78 | 3.63 | 2.25 | 0.78 | 3.63 | 2.54 | 0.79 |
| 10.0                            | 3.18                        | 1.59 | 0.76 | 2.80 | 1.85 | 0.77 | 3.18 | 2.10 | 0.78 | 3.18 | 2.35 | 0.77 | 3.56 | 2.35 | 0.78 | 3.94 | 2.44 | 0.78 | 3.94 | 2.76 | 0.79 |
| 20.0                            | 3.50                        | 1.75 | 0.75 | 3.12 | 2.06 | 0.76 | 3.50 | 2.31 | 0.77 | 3.50 | 2.59 | 0.77 | 3.88 | 2.56 | 0.78 | 4.26 | 2.64 | 0.79 | 4.26 | 2.98 | 0.79 |
| 25.0                            | 3.60                        | 1.80 | 0.89 | 3.22 | 2.13 | 0.90 | 3.60 | 2.38 | 0.91 | 3.60 | 2.66 | 0.91 | 3.98 | 2.63 | 0.92 | 4.36 | 2.70 | 0.93 | 4.36 | 3.05 | 0.94 |
| 32.0                            | 3.75                        | 1.88 | 1.10 | 3.37 | 2.22 | 1.10 | 3.75 | 2.48 | 1.11 | 3.75 | 2.78 | 1.12 | 4.13 | 2.73 | 1.13 | 4.51 | 2.80 | 1.14 | 4.51 | 3.16 | 1.15 |
| 35.0                            | 3.81                        | 1.91 | 1.20 | 3.43 | 2.26 | 1.20 | 3.81 | 2.51 | 1.21 | 3.81 | 2.82 | 1.22 | 4.19 | 2.77 | 1.23 | 4.57 | 2.83 | 1.23 | 4.57 | 3.20 | 1.24 |
| 40.0                            | 3.39                        | 1.70 | 1.21 | 3.01 | 1.99 | 1.23 | 3.39 | 2.24 | 1.24 | 3.39 | 2.51 | 1.25 | 3.77 | 2.49 | 1.26 | 4.15 | 2.57 | 1.28 | 4.15 | 2.91 | 1.29 |
| 43.0                            | 3.13                        | 1.57 | 1.22 | 2.75 | 1.82 | 1.23 | 3.13 | 2.07 | 1.26 | 3.13 | 2.32 | 1.27 | 3.51 | 2.32 | 1.29 | 3.89 | 2.41 | 1.30 | 3.89 | 2.72 | 1.32 |
| 46.0                            | 2.88                        | 1.44 | 1.24 | 2.50 | 1.65 | 1.25 | 2.88 | 1.90 | 1.28 | 2.88 | 2.13 | 1.29 | 3.26 | 2.15 | 1.30 | 3.64 | 2.26 | 1.33 | 3.64 | 2.55 | 1.35 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.15 | 2.65 | 1.18 | 2.60 | 1.20 | 2.60 | 1.21 | 2.60 | 1.21 | 2.60 | 1.22 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.50                        | 1.22 | 4.41 | 1.25 | 4.32 | 1.27 | 4.32 | 1.28 | 4.32 | 1.28 | 4.32 | 1.30 |
| 2.0                             | 4.73                        | 1.23 | 4.64 | 1.25 | 4.55 | 1.28 | 4.55 | 1.29 | 4.55 | 1.29 | 4.55 | 1.31 |
| 5.0                             | 4.03                        | 1.04 | 3.95 | 1.06 | 3.88 | 1.08 | 3.84 | 1.09 | 3.80 | 1.09 | 3.72 | 1.10 |
| 7.0                             | 4.16                        | 1.06 | 4.08 | 1.08 | 4.00 | 1.10 | 3.96 | 1.11 | 3.96 | 1.11 | 3.92 | 1.12 |
| 10.0                            | 4.35                        | 1.07 | 4.27 | 1.10 | 4.19 | 1.13 | 4.14 | 1.13 | 4.14 | 1.14 | 4.10 | 1.15 |
| 15.0                            | 4.68                        | 1.12 | 4.58 | 1.15 | 4.49 | 1.17 | 4.45 | 1.18 | 4.45 | 1.18 | 4.40 | 1.19 |
| 20.0                            | 5.00                        | 1.17 | 4.90 | 1.19 | 4.80 | 1.21 | 4.75 | 1.22 | 4.75 | 1.23 | 4.71 | 1.24 |
| 24.0                            | 5.25                        | 1.20 | 5.15 | 1.23 | 5.05 | 1.25 | 5.00 | 1.26 | 5.00 | 1.26 | 4.95 | 1.28 |

### AR12HSSDAWKNEU + AR12HSSDAWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 3.95                        | 1.98 | 0.66 | 3.57 | 2.36 | 0.66 | 3.95 | 2.61 | 0.67 | 3.95 | 2.92 | 0.67 | 4.33 | 2.86 | 0.67 | 4.71 | 2.92 | 0.67 | 4.71 | 3.30 | 0.68 |
| 0.0                             | 4.00                        | 2.00 | 0.69 | 3.62 | 2.39 | 0.69 | 4.00 | 2.64 | 0.70 | 4.00 | 2.96 | 0.70 | 4.38 | 2.89 | 0.70 | 4.76 | 2.95 | 0.70 | 4.76 | 3.33 | 0.71 |
| 10.0                            | 4.05                        | 2.03 | 0.69 | 3.67 | 2.42 | 0.69 | 4.05 | 2.67 | 0.70 | 4.05 | 3.00 | 0.73 | 4.43 | 2.92 | 0.70 | 4.81 | 2.98 | 0.70 | 4.81 | 3.37 | 0.71 |
| 20.0                            | 4.10                        | 2.05 | 0.74 | 3.72 | 2.46 | 0.75 | 4.10 | 2.71 | 0.76 | 4.10 | 3.03 | 0.76 | 4.48 | 2.96 | 0.77 | 4.86 | 3.01 | 0.78 | 4.86 | 3.40 | 0.78 |
| 25.0                            | 4.00                        | 2.00 | 0.83 | 3.62 | 2.39 | 0.84 | 4.00 | 2.64 | 0.85 | 4.00 | 2.96 | 0.85 | 4.38 | 2.89 | 0.86 | 4.76 | 2.95 | 0.87 | 4.76 | 3.33 | 0.88 |
| 32.0                            | 3.86                        | 1.93 | 0.96 | 3.48 | 2.30 | 0.97 | 3.86 | 2.55 | 0.98 | 3.86 | 2.86 | 0.98 | 4.24 | 2.80 | 0.99 | 4.62 | 2.86 | 1.00 | 4.62 | 3.23 | 1.01 |
| 35.0                            | 3.80                        | 1.90 | 1.02 | 3.42 | 2.26 | 1.02 | 3.80 | 2.51 | 1.03 | 3.80 | 2.81 | 1.04 | 4.18 | 2.76 | 1.05 | 4.56 | 2.83 | 1.05 | 4.56 | 3.19 | 1.06 |
| 40.0                            | 3.46                        | 1.73 | 1.09 | 3.08 | 2.03 | 1.10 | 3.46 | 2.28 | 1.11 | 3.46 | 2.56 | 1.12 | 3.84 | 2.53 | 1.13 | 4.22 | 2.62 | 1.14 | 4.22 | 2.95 | 1.15 |
| 43.0                            | 3.25                        | 1.63 | 1.11 | 2.87 | 1.89 | 1.13 | 3.25 | 2.15 | 1.15 | 3.25 | 2.41 | 1.16 | 3.63 | 2.40 | 1.18 | 4.01 | 2.49 | 1.19 | 4.01 | 2.81 | 1.21 |
| 46.0                            | 3.05                        | 1.53 | 1.16 | 2.67 | 1.76 | 1.17 | 3.05 | 2.01 | 1.20 | 3.05 | 2.26 | 1.21 | 3.43 | 2.26 | 1.22 | 3.81 | 2.36 | 1.25 | 3.81 | 2.67 | 1.27 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 3.32                        | 1.42 | 3.25 | 1.45 | 3.19 | 1.48 | 3.19 | 1.49 | 3.19 | 1.49 | 3.19 | 1.51 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 5.03                        | 1.42 | 4.93 | 1.45 | 4.84 | 1.48 | 4.84 | 1.48 | 4.84 | 1.49 | 4.84 | 1.51 |
| 2.0                             | 5.26                        | 1.42 | 5.16 | 1.45 | 5.06 | 1.48 | 5.06 | 1.48 | 5.06 | 1.49 | 5.06 | 1.50 |
| 5.0                             | 4.06                        | 0.89 | 3.98 | 0.91 | 3.90 | 0.93 | 3.87 | 0.94 | 3.83 | 0.94 | 3.75 | 0.95 |
| 7.0                             | 4.16                        | 0.91 | 4.08 | 0.93 | 4.00 | 0.95 | 3.96 | 0.95 | 3.96 | 0.96 | 3.92 | 0.97 |
| 10.0                            | 4.31                        | 0.93 | 4.23 | 0.95 | 4.14 | 0.98 | 4.10 | 0.98 | 4.10 | 0.99 | 4.06 | 1.00 |
| 15.0                            | 4.56                        | 0.98 | 4.47 | 1.00 | 4.38 | 1.03 | 4.34 | 1.03 | 4.34 | 1.04 | 4.29 | 1.05 |
| 20.0                            | 4.81                        | 1.03 | 4.71 | 1.05 | 4.62 | 1.07 | 4.57 | 1.08 | 4.57 | 1.08 | 4.53 | 1.09 |
| 24.0                            | 5.00                        | 1.07 | 4.91 | 1.09 | 4.81 | 1.11 | 4.76 | 1.12 | 4.76 | 1.12 | 4.71 | 1.13 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR12HSSDBWKNEU + AR12HSSDBWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.51                        | 1.26 | 0.73 | 2.13 | 1.41 | 0.73 | 2.51 | 1.66 | 0.74 | 2.51 | 1.86 | 0.75 | 2.89 | 1.91 | 0.75 | 3.27 | 2.03 | 0.75 | 3.27 | 2.29 | 0.75 |
| 0.0                             | 2.82                        | 1.41 | 0.72 | 2.44 | 1.61 | 0.72 | 2.82 | 1.86 | 0.73 | 2.82 | 2.09 | 0.73 | 3.20 | 2.11 | 0.73 | 3.58 | 2.22 | 0.73 | 3.58 | 2.51 | 0.74 |
| 10.0                            | 3.13                        | 1.57 | 0.72 | 2.75 | 1.82 | 0.72 | 3.13 | 2.07 | 0.73 | 3.13 | 2.32 | 0.72 | 3.51 | 2.32 | 0.73 | 3.89 | 2.41 | 0.73 | 3.89 | 2.72 | 0.74 |
| 20.0                            | 3.44                        | 1.72 | 0.69 | 3.06 | 2.02 | 0.70 | 3.44 | 2.27 | 0.70 | 3.44 | 2.55 | 0.71 | 3.82 | 2.52 | 0.72 | 4.20 | 2.60 | 0.72 | 4.20 | 2.94 | 0.73 |
| 25.0                            | 3.54                        | 1.77 | 0.82 | 3.16 | 2.09 | 0.83 | 3.54 | 2.34 | 0.84 | 3.54 | 2.62 | 0.84 | 3.92 | 2.59 | 0.85 | 4.30 | 2.67 | 0.86 | 4.30 | 3.01 | 0.87 |
| 32.0                            | 3.67                        | 1.84 | 1.01 | 3.29 | 2.17 | 1.01 | 3.67 | 2.42 | 1.02 | 3.67 | 2.72 | 1.03 | 4.05 | 2.67 | 1.04 | 4.43 | 2.75 | 1.05 | 4.43 | 3.10 | 1.06 |
| 35.0                            | 3.73                        | 1.87 | 1.10 | 3.35 | 2.21 | 1.11 | 3.73 | 2.46 | 1.12 | 3.73 | 2.76 | 1.13 | 4.11 | 2.71 | 1.13 | 4.49 | 2.78 | 1.14 | 4.49 | 3.14 | 1.14 |
| 40.0                            | 3.28                        | 1.64 | 1.13 | 2.90 | 1.91 | 1.14 | 3.28 | 2.16 | 1.15 | 3.28 | 2.43 | 1.16 | 3.66 | 2.42 | 1.17 | 4.04 | 2.50 | 1.18 | 4.04 | 2.83 | 1.19 |
| 43.0                            | 3.01                        | 1.51 | 1.13 | 2.63 | 1.74 | 1.14 | 3.01 | 1.99 | 1.17 | 3.01 | 2.23 | 1.18 | 3.39 | 2.24 | 1.20 | 3.77 | 2.34 | 1.21 | 3.77 | 2.64 | 1.23 |
| 46.0                            | 2.74                        | 1.37 | 1.15 | 2.36 | 1.56 | 1.16 | 2.74 | 1.81 | 1.18 | 2.74 | 2.03 | 1.20 | 3.12 | 2.06 | 1.21 | 3.50 | 2.17 | 1.23 | 3.50 | 2.45 | 1.26 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.53                        | 1.09 | 2.48 | 1.12 | 2.43 | 1.14 | 2.43 | 1.15 | 2.43 | 1.15 | 2.43 | 1.16 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.80                        | 1.29 | 4.70 | 1.32 | 4.61 | 1.35 | 4.61 | 1.35 | 4.61 | 1.36 | 4.61 | 1.37 |
| 2.0                             | 5.10                        | 1.32 | 5.00 | 1.35 | 4.90 | 1.38 | 4.90 | 1.38 | 4.90 | 1.39 | 4.90 | 1.40 |
| 5.0                             | 4.05                        | 0.98 | 3.97 | 1.00 | 3.90 | 1.02 | 3.86 | 1.03 | 3.82 | 1.03 | 3.74 | 1.04 |
| 7.0                             | 4.16                        | 1.01 | 4.08 | 1.03 | 4.00 | 1.05 | 3.96 | 1.06 | 3.96 | 1.06 | 3.92 | 1.07 |
| 10.0                            | 4.32                        | 1.03 | 4.24 | 1.06 | 4.16 | 1.09 | 4.11 | 1.10 | 4.11 | 1.10 | 4.07 | 1.11 |
| 15.0                            | 4.59                        | 1.11 | 4.50 | 1.14 | 4.41 | 1.16 | 4.37 | 1.16 | 4.37 | 1.17 | 4.33 | 1.18 |
| 20.0                            | 4.86                        | 1.18 | 4.77 | 1.20 | 4.67 | 1.23 | 4.63 | 1.23 | 4.63 | 1.24 | 4.58 | 1.25 |
| 24.0                            | 5.08                        | 1.23 | 4.98 | 1.25 | 4.88 | 1.28 | 4.83 | 1.29 | 4.83 | 1.29 | 4.78 | 1.31 |

### AR12JSFNCWKNET + AR12JSFNCWKXET

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.50                        | 1.25 | 0.75 | 2.12 | 1.40 | 0.76 | 2.50 | 1.65 | 0.77 | 2.50 | 1.85 | 0.77 | 2.88 | 1.90 | 0.77 | 3.26 | 2.02 | 0.77 | 3.26 | 2.28 | 0.78 |
| 0.0                             | 2.80                        | 1.40 | 0.75 | 2.42 | 1.60 | 0.76 | 2.80 | 1.85 | 0.77 | 2.80 | 2.07 | 0.77 | 3.18 | 2.10 | 0.77 | 3.56 | 2.21 | 0.77 | 3.56 | 2.49 | 0.78 |
| 10.0                            | 3.11                        | 1.56 | 0.75 | 2.73 | 1.80 | 0.76 | 3.11 | 2.05 | 0.77 | 3.11 | 2.30 | 0.78 | 3.49 | 2.30 | 0.77 | 3.87 | 2.40 | 0.77 | 3.87 | 2.71 | 0.78 |
| 20.0                            | 3.41                        | 1.71 | 0.76 | 3.03 | 2.00 | 0.77 | 3.41 | 2.25 | 0.78 | 3.41 | 2.52 | 0.78 | 3.79 | 2.50 | 0.79 | 4.17 | 2.59 | 0.80 | 4.17 | 2.92 | 0.80 |
| 25.0                            | 3.47                        | 1.74 | 0.90 | 3.09 | 2.04 | 0.91 | 3.47 | 2.29 | 0.92 | 3.47 | 2.57 | 0.92 | 3.85 | 2.54 | 0.93 | 4.23 | 2.62 | 0.94 | 4.23 | 2.96 | 0.95 |
| 32.0                            | 3.55                        | 1.78 | 1.10 | 3.17 | 2.09 | 1.10 | 3.55 | 2.34 | 1.11 | 3.55 | 2.63 | 1.12 | 3.93 | 2.59 | 1.13 | 4.31 | 2.67 | 1.14 | 4.31 | 3.02 | 1.15 |
| 35.0                            | 3.58                        | 1.79 | 1.20 | 3.20 | 2.11 | 1.20 | 3.58 | 2.36 | 1.21 | 3.58 | 2.65 | 1.22 | 3.96 | 2.61 | 1.23 | 4.34 | 2.69 | 1.23 | 4.34 | 3.04 | 1.24 |
| 40.0                            | 3.20                        | 1.60 | 1.22 | 2.82 | 1.86 | 1.23 | 3.20 | 2.11 | 1.25 | 3.20 | 2.37 | 1.26 | 3.58 | 2.36 | 1.27 | 3.96 | 2.46 | 1.29 | 3.96 | 2.77 | 1.30 |
| 43.0                            | 2.98                        | 1.49 | 1.24 | 2.60 | 1.72 | 1.25 | 2.98 | 1.97 | 1.28 | 2.98 | 2.21 | 1.29 | 3.36 | 2.22 | 1.31 | 3.74 | 2.32 | 1.32 | 3.74 | 2.62 | 1.34 |
| 46.0                            | 2.75                        | 1.38 | 1.26 | 2.37 | 1.56 | 1.27 | 2.75 | 1.82 | 1.30 | 2.75 | 2.04 | 1.31 | 3.13 | 2.07 | 1.32 | 3.51 | 2.18 | 1.35 | 3.51 | 2.46 | 1.38 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.25 | 2.65 | 1.27 | 2.60 | 1.30 | 2.60 | 1.31 | 2.60 | 1.31 | 2.60 | 1.33 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.81                        | 1.21 | 3.73 | 1.23 | 3.66 | 1.26 | 3.66 | 1.26 | 3.66 | 1.27 | 3.66 | 1.28 |
| 2.0                             | 3.95                        | 1.20 | 3.88 | 1.23 | 3.80 | 1.25 | 3.80 | 1.26 | 3.80 | 1.26 | 3.80 | 1.28 |
| 5.0                             | 3.46                        | 1.03 | 3.39 | 1.05 | 3.32 | 1.07 | 3.29 | 1.08 | 3.26 | 1.08 | 3.19 | 1.09 |
| 7.0                             | 3.64                        | 1.06 | 3.57 | 1.08 | 3.50 | 1.10 | 3.47 | 1.11 | 3.47 | 1.11 | 3.43 | 1.12 |
| 10.0                            | 3.92                        | 1.08 | 3.84 | 1.11 | 3.76 | 1.14 | 3.73 | 1.15 | 3.73 | 1.16 | 3.69 | 1.17 |
| 15.0                            | 4.38                        | 1.17 | 4.29 | 1.19 | 4.21 | 1.22 | 4.16 | 1.22 | 4.16 | 1.23 | 4.12 | 1.24 |
| 20.0                            | 4.83                        | 1.24 | 4.74 | 1.27 | 4.65 | 1.29 | 4.60 | 1.30 | 4.60 | 1.30 | 4.55 | 1.32 |
| 24.0                            | 5.20                        | 1.30 | 5.10 | 1.32 | 5.00 | 1.35 | 4.95 | 1.36 | 4.95 | 1.36 | 4.90 | 1.38 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4-1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR12JSFNCWKNZE + AR12JSFNCWKXZE

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.50                        | 1.25 | 0.75 | 2.12 | 1.40 | 0.76 | 2.50 | 1.65 | 0.77 | 2.50 | 1.85 | 0.77 | 2.88 | 1.90 | 0.77 | 3.26 | 2.02 | 0.77 | 3.26 | 2.28 | 0.78 |
| 0.0                             | 2.80                        | 1.40 | 0.75 | 2.42 | 1.60 | 0.76 | 2.80 | 1.85 | 0.77 | 2.80 | 2.07 | 0.77 | 3.18 | 2.10 | 0.77 | 3.56 | 2.21 | 0.77 | 3.56 | 2.49 | 0.78 |
| 10.0                            | 3.11                        | 1.56 | 0.75 | 2.73 | 1.80 | 0.76 | 3.11 | 2.05 | 0.77 | 3.11 | 2.30 | 0.78 | 3.49 | 2.30 | 0.77 | 3.87 | 2.40 | 0.77 | 3.87 | 2.71 | 0.78 |
| 20.0                            | 3.41                        | 1.71 | 0.76 | 3.03 | 2.00 | 0.77 | 3.41 | 2.25 | 0.78 | 3.41 | 2.52 | 0.78 | 3.79 | 2.50 | 0.79 | 4.17 | 2.59 | 0.80 | 4.17 | 2.92 | 0.80 |
| 25.0                            | 3.47                        | 1.74 | 0.90 | 3.09 | 2.04 | 0.91 | 3.47 | 2.29 | 0.92 | 3.47 | 2.57 | 0.92 | 3.85 | 2.54 | 0.93 | 4.23 | 2.62 | 0.94 | 4.23 | 2.96 | 0.95 |
| 32.0                            | 3.55                        | 1.78 | 1.10 | 3.17 | 2.09 | 1.10 | 3.55 | 2.34 | 1.11 | 3.55 | 2.63 | 1.12 | 3.93 | 2.59 | 1.13 | 4.31 | 2.67 | 1.14 | 4.31 | 3.02 | 1.15 |
| 35.0                            | 3.58                        | 1.79 | 1.20 | 3.20 | 2.11 | 1.20 | 3.58 | 2.36 | 1.21 | 3.58 | 2.65 | 1.22 | 3.96 | 2.61 | 1.23 | 4.34 | 2.69 | 1.23 | 4.34 | 3.04 | 1.24 |
| 40.0                            | 3.20                        | 1.60 | 1.22 | 2.82 | 1.86 | 1.23 | 3.20 | 2.11 | 1.25 | 3.20 | 2.37 | 1.26 | 3.58 | 2.36 | 1.27 | 3.96 | 2.46 | 1.29 | 3.96 | 2.77 | 1.30 |
| 43.0                            | 2.98                        | 1.49 | 1.24 | 2.60 | 1.72 | 1.25 | 2.98 | 1.97 | 1.28 | 2.98 | 2.21 | 1.29 | 3.36 | 2.22 | 1.31 | 3.74 | 2.32 | 1.32 | 3.74 | 2.62 | 1.34 |
| 46.0                            | 2.75                        | 1.38 | 1.26 | 2.37 | 1.56 | 1.27 | 2.75 | 1.82 | 1.30 | 2.75 | 2.04 | 1.31 | 3.13 | 2.07 | 1.32 | 3.51 | 2.18 | 1.35 | 3.51 | 2.46 | 1.38 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.25 | 2.65 | 1.27 | 2.60 | 1.30 | 2.60 | 1.31 | 2.60 | 1.31 | 2.60 | 1.33 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.81                        | 1.21 | 3.73 | 1.23 | 3.66 | 1.26 | 3.66 | 1.26 | 3.66 | 1.27 | 3.66 | 1.28 |
| 2.0                             | 3.95                        | 1.20 | 3.88 | 1.23 | 3.80 | 1.25 | 3.80 | 1.26 | 3.80 | 1.26 | 3.80 | 1.28 |
| 5.0                             | 3.46                        | 1.03 | 3.39 | 1.05 | 3.32 | 1.07 | 3.29 | 1.08 | 3.26 | 1.08 | 3.19 | 1.09 |
| 7.0                             | 3.64                        | 1.06 | 3.57 | 1.08 | 3.50 | 1.10 | 3.47 | 1.11 | 3.47 | 1.11 | 3.43 | 1.12 |
| 10.0                            | 3.92                        | 1.08 | 3.84 | 1.11 | 3.76 | 1.14 | 3.73 | 1.15 | 3.73 | 1.16 | 3.69 | 1.17 |
| 15.0                            | 4.38                        | 1.17 | 4.29 | 1.19 | 4.21 | 1.22 | 4.16 | 1.22 | 4.16 | 1.23 | 4.12 | 1.24 |
| 20.0                            | 4.83                        | 1.24 | 4.74 | 1.27 | 4.65 | 1.29 | 4.60 | 1.30 | 4.60 | 1.30 | 4.55 | 1.32 |
| 24.0                            | 5.20                        | 1.30 | 5.10 | 1.32 | 5.00 | 1.35 | 4.95 | 1.36 | 4.95 | 1.36 | 4.90 | 1.38 |

### AR12JSFSBURNET + AR12JSFSBURXET

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.50                        | 1.25 | 0.75 | 2.12 | 1.40 | 0.76 | 2.50 | 1.65 | 0.77 | 2.50 | 1.85 | 0.77 | 2.88 | 1.90 | 0.77 | 3.26 | 2.02 | 0.77 | 3.26 | 2.28 | 0.78 |
| 0.0                             | 2.80                        | 1.40 | 0.75 | 2.42 | 1.60 | 0.76 | 2.80 | 1.85 | 0.77 | 2.80 | 2.07 | 0.77 | 3.18 | 2.10 | 0.77 | 3.56 | 2.21 | 0.77 | 3.56 | 2.49 | 0.78 |
| 10.0                            | 3.11                        | 1.56 | 0.75 | 2.73 | 1.80 | 0.76 | 3.11 | 2.05 | 0.77 | 3.11 | 2.30 | 0.78 | 3.49 | 2.30 | 0.77 | 3.87 | 2.40 | 0.77 | 3.87 | 2.71 | 0.78 |
| 20.0                            | 3.41                        | 1.71 | 0.76 | 3.03 | 2.00 | 0.77 | 3.41 | 2.25 | 0.78 | 3.41 | 2.52 | 0.78 | 3.79 | 2.50 | 0.79 | 4.17 | 2.59 | 0.80 | 4.17 | 2.92 | 0.80 |
| 25.0                            | 3.47                        | 1.74 | 0.90 | 3.09 | 2.04 | 0.91 | 3.47 | 2.29 | 0.92 | 3.47 | 2.57 | 0.92 | 3.85 | 2.54 | 0.93 | 4.23 | 2.62 | 0.94 | 4.23 | 2.96 | 0.95 |
| 32.0                            | 3.55                        | 1.78 | 1.10 | 3.17 | 2.09 | 1.10 | 3.55 | 2.34 | 1.11 | 3.55 | 2.63 | 1.12 | 3.93 | 2.59 | 1.13 | 4.31 | 2.67 | 1.14 | 4.31 | 3.02 | 1.15 |
| 35.0                            | 3.58                        | 1.79 | 1.20 | 3.20 | 2.11 | 1.20 | 3.58 | 2.36 | 1.21 | 3.58 | 2.65 | 1.22 | 3.96 | 2.61 | 1.23 | 4.34 | 2.69 | 1.23 | 4.34 | 3.04 | 1.24 |
| 40.0                            | 3.20                        | 1.60 | 1.22 | 2.82 | 1.86 | 1.23 | 3.20 | 2.11 | 1.25 | 3.20 | 2.37 | 1.26 | 3.58 | 2.36 | 1.27 | 3.96 | 2.46 | 1.29 | 3.96 | 2.77 | 1.30 |
| 43.0                            | 2.98                        | 1.49 | 1.24 | 2.60 | 1.72 | 1.25 | 2.98 | 1.97 | 1.28 | 2.98 | 2.21 | 1.29 | 3.36 | 2.22 | 1.31 | 3.74 | 2.32 | 1.32 | 3.74 | 2.62 | 1.34 |
| 46.0                            | 2.75                        | 1.38 | 1.26 | 2.37 | 1.56 | 1.27 | 2.75 | 1.82 | 1.30 | 2.75 | 2.04 | 1.31 | 3.13 | 2.07 | 1.32 | 3.51 | 2.18 | 1.35 | 3.51 | 2.46 | 1.38 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.71                        | 1.25 | 2.65 | 1.27 | 2.60 | 1.30 | 2.60 | 1.31 | 2.60 | 1.31 | 2.60 | 1.33 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 3.81                        | 1.21 | 3.73 | 1.23 | 3.66 | 1.26 | 3.66 | 1.26 | 3.66 | 1.27 | 3.66 | 1.28 |
| 2.0                             | 3.95                        | 1.20 | 3.88 | 1.23 | 3.80 | 1.25 | 3.80 | 1.26 | 3.80 | 1.26 | 3.80 | 1.28 |
| 5.0                             | 3.46                        | 1.03 | 3.39 | 1.05 | 3.32 | 1.07 | 3.29 | 1.08 | 3.26 | 1.08 | 3.19 | 1.09 |
| 7.0                             | 3.64                        | 1.06 | 3.57 | 1.08 | 3.50 | 1.10 | 3.47 | 1.11 | 3.47 | 1.11 | 3.43 | 1.12 |
| 10.0                            | 3.92                        | 1.08 | 3.84 | 1.11 | 3.76 | 1.14 | 3.73 | 1.15 | 3.73 | 1.16 | 3.69 | 1.17 |
| 15.0                            | 4.38                        | 1.17 | 4.29 | 1.19 | 4.21 | 1.22 | 4.16 | 1.22 | 4.16 | 1.23 | 4.12 | 1.24 |
| 20.0                            | 4.83                        | 1.24 | 4.74 | 1.27 | 4.65 | 1.29 | 4.60 | 1.30 | 4.60 | 1.30 | 4.55 | 1.32 |
| 24.0                            | 5.20                        | 1.30 | 5.10 | 1.32 | 5.00 | 1.35 | 4.95 | 1.36 | 4.95 | 1.36 | 4.90 | 1.38 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4-1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR12JSPFAWKNEU + AR12JSPFAWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 3.81                        | 1.91 | 0.74 | 3.43 | 2.26 | 0.75 | 3.81 | 2.51 | 0.76 | 3.81 | 2.82 | 0.76 | 4.19 | 2.77 | 0.76 | 4.57 | 2.83 | 0.76 | 4.57 | 3.20 | 0.77 |
| 0.0                             | 3.88                        | 1.94 | 0.74 | 3.50 | 2.31 | 0.75 | 3.88 | 2.56 | 0.76 | 3.88 | 2.87 | 0.76 | 4.26 | 2.81 | 0.76 | 4.64 | 2.88 | 0.76 | 4.64 | 3.25 | 0.77 |
| 10.0                            | 3.95                        | 1.98 | 0.74 | 3.57 | 2.36 | 0.75 | 3.95 | 2.61 | 0.76 | 3.95 | 2.92 | 0.76 | 4.33 | 2.86 | 0.76 | 4.71 | 2.92 | 0.76 | 4.71 | 3.30 | 0.77 |
| 20.0                            | 4.02                        | 2.01 | 0.74 | 3.64 | 2.40 | 0.74 | 4.02 | 2.65 | 0.75 | 4.02 | 2.97 | 0.76 | 4.40 | 2.90 | 0.76 | 4.78 | 2.96 | 0.77 | 4.78 | 3.35 | 0.78 |
| 25.0                            | 3.95                        | 1.98 | 0.86 | 3.57 | 2.36 | 0.87 | 3.95 | 2.61 | 0.88 | 3.95 | 2.92 | 0.88 | 4.33 | 2.86 | 0.89 | 4.71 | 2.92 | 0.90 | 4.71 | 3.30 | 0.91 |
| 32.0                            | 3.84                        | 1.92 | 1.04 | 3.46 | 2.28 | 1.04 | 3.84 | 2.53 | 1.05 | 3.84 | 2.84 | 1.06 | 4.22 | 2.79 | 1.07 | 4.60 | 2.85 | 1.08 | 4.60 | 3.22 | 1.09 |
| 35.0                            | 3.80                        | 1.90 | 1.13 | 3.42 | 2.26 | 1.13 | 3.80 | 2.51 | 1.14 | 3.80 | 2.81 | 1.15 | 4.18 | 2.76 | 1.16 | 4.56 | 2.83 | 1.16 | 4.56 | 3.19 | 1.17 |
| 40.0                            | 3.44                        | 1.72 | 1.12 | 3.06 | 2.02 | 1.13 | 3.44 | 2.27 | 1.14 | 3.44 | 2.55 | 1.15 | 3.82 | 2.52 | 1.16 | 4.20 | 2.60 | 1.17 | 4.20 | 2.94 | 1.18 |
| 43.0                            | 3.23                        | 1.62 | 1.10 | 2.85 | 1.88 | 1.12 | 3.23 | 2.13 | 1.14 | 3.23 | 2.39 | 1.15 | 3.61 | 2.38 | 1.17 | 3.99 | 2.47 | 1.18 | 3.99 | 2.79 | 1.20 |
| 46.0                            | 3.01                        | 1.51 | 1.11 | 2.63 | 1.74 | 1.12 | 3.01 | 1.99 | 1.14 | 3.01 | 2.23 | 1.16 | 3.39 | 2.24 | 1.17 | 3.77 | 2.34 | 1.19 | 3.77 | 2.64 | 1.21 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 3.28                        | 1.58 | 3.21 | 1.62 | 3.15 | 1.65 | 3.15 | 1.66 | 3.15 | 1.67 | 3.15 | 1.68 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 5.25                        | 1.48 | 5.15 | 1.51 | 5.05 | 1.54 | 5.05 | 1.55 | 5.05 | 1.56 | 5.05 | 1.57 |
| 2.0                             | 5.51                        | 1.46 | 5.41 | 1.49 | 5.30 | 1.53 | 5.30 | 1.53 | 5.30 | 1.54 | 5.30 | 1.56 |
| 5.0                             | 4.05                        | 0.98 | 3.97 | 1.00 | 3.89 | 1.02 | 3.85 | 1.03 | 3.81 | 1.03 | 3.73 | 1.04 |
| 7.0                             | 4.16                        | 1.01 | 4.08 | 1.03 | 4.00 | 1.05 | 3.96 | 1.06 | 3.96 | 1.06 | 3.92 | 1.07 |
| 10.0                            | 4.34                        | 1.03 | 4.25 | 1.06 | 4.17 | 1.09 | 4.13 | 1.10 | 4.13 | 1.10 | 4.08 | 1.11 |
| 15.0                            | 4.63                        | 1.11 | 4.54 | 1.14 | 4.45 | 1.16 | 4.40 | 1.16 | 4.40 | 1.17 | 4.36 | 1.18 |
| 20.0                            | 4.92                        | 1.18 | 4.82 | 1.20 | 4.73 | 1.23 | 4.68 | 1.23 | 4.68 | 1.24 | 4.63 | 1.25 |
| 24.0                            | 5.15                        | 1.23 | 5.05 | 1.25 | 4.95 | 1.28 | 4.90 | 1.29 | 4.90 | 1.29 | 4.85 | 1.31 |

### AR12JSPFBWKNEU + AR12JSPFBWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 2.51                        | 1.26 | 0.73 | 2.13 | 1.41 | 0.73 | 2.51 | 1.66 | 0.74 | 2.51 | 1.86 | 0.75 | 2.89 | 1.91 | 0.75 | 3.27 | 2.03 | 0.75 | 3.27 | 2.29 | 0.75 |
| 0.0                             | 2.82                        | 1.41 | 0.72 | 2.44 | 1.61 | 0.72 | 2.82 | 1.86 | 0.73 | 2.82 | 2.09 | 0.73 | 3.20 | 2.11 | 0.73 | 3.58 | 2.22 | 0.73 | 3.58 | 2.51 | 0.74 |
| 10.0                            | 3.13                        | 1.57 | 0.72 | 2.75 | 1.82 | 0.72 | 3.13 | 2.07 | 0.73 | 3.13 | 2.32 | 0.72 | 3.51 | 2.32 | 0.73 | 3.89 | 2.41 | 0.73 | 3.89 | 2.72 | 0.74 |
| 20.0                            | 3.44                        | 1.72 | 0.69 | 3.06 | 2.02 | 0.70 | 3.44 | 2.27 | 0.70 | 3.44 | 2.55 | 0.71 | 3.82 | 2.52 | 0.72 | 4.20 | 2.60 | 0.72 | 4.20 | 2.94 | 0.73 |
| 25.0                            | 3.54                        | 1.77 | 0.82 | 3.16 | 2.09 | 0.83 | 3.54 | 2.34 | 0.84 | 3.54 | 2.62 | 0.84 | 3.92 | 2.59 | 0.85 | 4.30 | 2.67 | 0.86 | 4.30 | 3.01 | 0.87 |
| 32.0                            | 3.67                        | 1.84 | 1.01 | 3.29 | 2.17 | 1.01 | 3.67 | 2.42 | 1.02 | 3.67 | 2.72 | 1.03 | 4.05 | 2.67 | 1.04 | 4.43 | 2.75 | 1.05 | 4.43 | 3.10 | 1.06 |
| 35.0                            | 3.73                        | 1.87 | 1.10 | 3.35 | 2.21 | 1.11 | 3.73 | 2.46 | 1.12 | 3.73 | 2.76 | 1.13 | 4.11 | 2.71 | 1.13 | 4.49 | 2.78 | 1.14 | 4.49 | 3.14 | 1.14 |
| 40.0                            | 3.28                        | 1.64 | 1.13 | 2.90 | 1.91 | 1.14 | 3.28 | 2.16 | 1.15 | 3.28 | 2.43 | 1.16 | 3.66 | 2.42 | 1.17 | 4.04 | 2.50 | 1.18 | 4.04 | 2.83 | 1.19 |
| 43.0                            | 3.01                        | 1.51 | 1.13 | 2.63 | 1.74 | 1.14 | 3.01 | 1.99 | 1.17 | 3.01 | 2.23 | 1.18 | 3.39 | 2.24 | 1.20 | 3.77 | 2.34 | 1.21 | 3.77 | 2.64 | 1.23 |
| 46.0                            | 2.74                        | 1.37 | 1.15 | 2.36 | 1.56 | 1.16 | 2.74 | 1.81 | 1.18 | 2.74 | 2.03 | 1.20 | 3.12 | 2.06 | 1.21 | 3.50 | 2.17 | 1.23 | 3.50 | 2.45 | 1.26 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 2.53                        | 1.09 | 2.48 | 1.12 | 2.43 | 1.14 | 2.43 | 1.15 | 2.43 | 1.15 | 2.43 | 1.16 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 4.80                        | 1.29 | 4.70 | 1.32 | 4.61 | 1.35 | 4.61 | 1.35 | 4.61 | 1.36 | 4.61 | 1.37 |
| 2.0                             | 5.10                        | 1.32 | 5.00 | 1.35 | 4.90 | 1.38 | 4.90 | 1.38 | 4.90 | 1.39 | 4.90 | 1.40 |
| 5.0                             | 4.05                        | 0.98 | 3.97 | 1.00 | 3.90 | 1.02 | 3.86 | 1.03 | 3.82 | 1.03 | 3.74 | 1.04 |
| 7.0                             | 4.16                        | 1.01 | 4.08 | 1.03 | 4.00 | 1.05 | 3.96 | 1.06 | 3.96 | 1.06 | 3.92 | 1.07 |
| 10.0                            | 4.32                        | 1.03 | 4.24 | 1.06 | 4.16 | 1.09 | 4.11 | 1.10 | 4.11 | 1.10 | 4.07 | 1.11 |
| 15.0                            | 4.59                        | 1.11 | 4.50 | 1.14 | 4.41 | 1.16 | 4.37 | 1.16 | 4.37 | 1.17 | 4.33 | 1.18 |
| 20.0                            | 4.86                        | 1.18 | 4.77 | 1.20 | 4.67 | 1.23 | 4.63 | 1.23 | 4.63 | 1.24 | 4.58 | 1.25 |
| 24.0                            | 5.08                        | 1.23 | 4.98 | 1.25 | 4.88 | 1.28 | 4.83 | 1.29 | 4.83 | 1.29 | 4.78 | 1.31 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR18HSFNBWKNEU + AR18HSFNBWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 4.60                        | 2.16 | 1.24 | 4.22 | 2.66 | 1.25 | 4.60 | 2.90 | 1.26 | 4.60 | 3.27 | 1.27 | 4.98 | 3.14 | 1.27 | 5.36 | 3.16 | 1.28 | 5.36 | 3.59 | 1.28 |
| 0.0                             | 4.88                        | 2.29 | 1.23 | 4.50 | 2.84 | 1.23 | 4.88 | 3.07 | 1.24 | 4.88 | 3.46 | 1.25 | 5.26 | 3.31 | 1.25 | 5.64 | 3.33 | 1.26 | 5.64 | 3.78 | 1.26 |
| 10.0                            | 5.17                        | 2.43 | 1.23 | 4.79 | 3.02 | 1.23 | 5.17 | 3.26 | 1.24 | 5.17 | 3.67 | 1.23 | 5.55 | 3.50 | 1.25 | 5.93 | 3.50 | 1.26 | 5.93 | 3.97 | 1.26 |
| 20.0                            | 5.45                        | 2.56 | 1.19 | 5.07 | 3.19 | 1.19 | 5.45 | 3.43 | 1.20 | 5.45 | 3.87 | 1.21 | 5.83 | 3.67 | 1.22 | 6.21 | 3.66 | 1.23 | 6.21 | 4.16 | 1.25 |
| 25.0                            | 5.52                        | 2.59 | 1.40 | 5.14 | 3.24 | 1.41 | 5.52 | 3.48 | 1.42 | 5.52 | 3.92 | 1.43 | 5.90 | 3.72 | 1.44 | 6.28 | 3.71 | 1.46 | 6.28 | 4.21 | 1.47 |
| 32.0                            | 5.61                        | 2.64 | 1.72 | 5.23 | 3.29 | 1.73 | 5.61 | 3.53 | 1.75 | 5.61 | 3.98 | 1.76 | 5.99 | 3.77 | 1.78 | 6.37 | 3.76 | 1.80 | 6.37 | 4.27 | 1.81 |
| 35.0                            | 5.65                        | 2.66 | 1.88 | 5.27 | 3.32 | 1.89 | 5.65 | 3.56 | 1.91 | 5.65 | 4.01 | 1.92 | 6.03 | 3.80 | 1.93 | 6.41 | 3.78 | 1.94 | 6.41 | 4.29 | 1.95 |
| 40.0                            | 4.90                        | 2.30 | 1.91 | 4.52 | 2.85 | 1.93 | 4.90 | 3.09 | 1.95 | 4.90 | 3.48 | 1.97 | 5.28 | 3.33 | 1.99 | 5.66 | 3.34 | 2.01 | 5.66 | 3.79 | 2.03 |
| 43.0                            | 4.45                        | 2.09 | 1.93 | 4.07 | 2.56 | 1.95 | 4.45 | 2.80 | 1.99 | 4.45 | 3.16 | 2.01 | 4.83 | 3.04 | 2.04 | 5.21 | 3.07 | 2.06 | 5.21 | 3.49 | 2.09 |
| 46.0                            | 4.00                        | 1.88 | 1.96 | 3.62 | 2.28 | 1.98 | 4.00 | 2.52 | 2.02 | 4.00 | 2.84 | 2.04 | 4.38 | 2.76 | 2.06 | 4.76 | 2.81 | 2.10 | 4.76 | 3.19 | 2.14 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 4.01                        | 1.72 | 3.93 | 1.75 | 3.85 | 1.79 | 3.85 | 1.80 | 3.85 | 1.81 | 3.85 | 1.83 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 6.87                        | 1.94 | 6.74 | 1.98 | 6.61 | 2.02 | 6.61 | 2.03 | 6.61 | 2.04 | 6.61 | 2.06 |
| 2.0                             | 7.26                        | 1.97 | 7.11 | 2.01 | 6.98 | 2.06 | 6.98 | 2.07 | 6.98 | 2.08 | 6.98 | 2.10 |
| 5.0                             | 6.02                        | 1.53 | 5.90 | 1.56 | 5.79 | 1.60 | 5.73 | 1.60 | 5.67 | 1.61 | 5.56 | 1.63 |
| 7.0                             | 6.24                        | 1.59 | 6.12 | 1.63 | 6.00 | 1.66 | 5.94 | 1.67 | 5.94 | 1.68 | 5.88 | 1.69 |
| 10.0                            | 6.57                        | 1.66 | 6.44 | 1.69 | 6.32 | 1.76 | 6.25 | 1.76 | 6.25 | 1.77 | 6.19 | 1.79 |
| 15.0                            | 7.12                        | 1.84 | 6.98 | 1.88 | 6.85 | 1.91 | 6.78 | 1.92 | 6.78 | 1.93 | 6.71 | 1.95 |
| 20.0                            | 7.67                        | 1.99 | 7.52 | 2.03 | 7.38 | 2.07 | 7.30 | 2.08 | 7.30 | 2.09 | 7.23 | 2.11 |
| 24.0                            | 8.12                        | 2.11 | 7.96 | 2.16 | 7.80 | 2.20 | 7.72 | 2.21 | 7.72 | 2.22 | 7.64 | 2.24 |

### AR18HSFSAWKNEU + AR18HSFSAWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 4.60                        | 2.16 | 1.24 | 4.22 | 2.66 | 1.25 | 4.60 | 2.90 | 1.26 | 4.60 | 3.27 | 1.27 | 4.98 | 3.14 | 1.27 | 5.36 | 3.16 | 1.28 | 5.36 | 3.59 | 1.28 |
| 0.0                             | 4.88                        | 2.29 | 1.23 | 4.50 | 2.84 | 1.23 | 4.88 | 3.07 | 1.24 | 4.88 | 3.46 | 1.25 | 5.26 | 3.31 | 1.25 | 5.64 | 3.33 | 1.26 | 5.64 | 3.78 | 1.26 |
| 10.0                            | 5.17                        | 2.43 | 1.23 | 4.79 | 3.02 | 1.23 | 5.17 | 3.26 | 1.24 | 5.17 | 3.67 | 1.23 | 5.55 | 3.50 | 1.25 | 5.93 | 3.50 | 1.26 | 5.93 | 3.97 | 1.26 |
| 20.0                            | 5.45                        | 2.56 | 1.19 | 5.07 | 3.19 | 1.19 | 5.45 | 3.43 | 1.20 | 5.45 | 3.87 | 1.21 | 5.83 | 3.67 | 1.22 | 6.21 | 3.66 | 1.23 | 6.21 | 4.16 | 1.25 |
| 25.0                            | 5.52                        | 2.59 | 1.40 | 5.14 | 3.24 | 1.41 | 5.52 | 3.48 | 1.42 | 5.52 | 3.92 | 1.43 | 5.90 | 3.72 | 1.44 | 6.28 | 3.71 | 1.46 | 6.28 | 4.21 | 1.47 |
| 32.0                            | 5.61                        | 2.64 | 1.72 | 5.23 | 3.29 | 1.73 | 5.61 | 3.53 | 1.75 | 5.61 | 3.98 | 1.76 | 5.99 | 3.77 | 1.78 | 6.37 | 3.76 | 1.80 | 6.37 | 4.27 | 1.81 |
| 35.0                            | 5.65                        | 2.66 | 1.88 | 5.27 | 3.32 | 1.89 | 5.65 | 3.56 | 1.91 | 5.65 | 4.01 | 1.92 | 6.03 | 3.80 | 1.93 | 6.41 | 3.78 | 1.94 | 6.41 | 4.29 | 1.95 |
| 40.0                            | 4.90                        | 2.30 | 1.91 | 4.52 | 2.85 | 1.93 | 4.90 | 3.09 | 1.95 | 4.90 | 3.48 | 1.97 | 5.28 | 3.33 | 1.99 | 5.66 | 3.34 | 2.01 | 5.66 | 3.79 | 2.03 |
| 43.0                            | 4.45                        | 2.09 | 1.93 | 4.07 | 2.56 | 1.95 | 4.45 | 2.80 | 1.99 | 4.45 | 3.16 | 2.01 | 4.83 | 3.04 | 2.04 | 5.21 | 3.07 | 2.06 | 5.21 | 3.49 | 2.09 |
| 46.0                            | 4.00                        | 1.88 | 1.96 | 3.62 | 2.28 | 1.98 | 4.00 | 2.52 | 2.02 | 4.00 | 2.84 | 2.04 | 4.38 | 2.76 | 2.06 | 4.76 | 2.81 | 2.10 | 4.76 | 3.19 | 2.14 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 4.01                        | 1.72 | 3.93 | 1.75 | 3.85 | 1.79 | 3.85 | 1.80 | 3.85 | 1.81 | 3.85 | 1.83 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 6.87                        | 1.94 | 6.74 | 1.98 | 6.61 | 2.02 | 6.61 | 2.03 | 6.61 | 2.04 | 6.61 | 2.06 |
| 2.0                             | 7.26                        | 1.97 | 7.11 | 2.01 | 6.98 | 2.06 | 6.98 | 2.07 | 6.98 | 2.08 | 6.98 | 2.10 |
| 5.0                             | 6.02                        | 1.53 | 5.90 | 1.56 | 5.79 | 1.60 | 5.73 | 1.60 | 5.67 | 1.61 | 5.56 | 1.63 |
| 7.0                             | 6.24                        | 1.59 | 6.12 | 1.63 | 6.00 | 1.66 | 5.94 | 1.67 | 5.94 | 1.68 | 5.88 | 1.69 |
| 10.0                            | 6.57                        | 1.66 | 6.44 | 1.69 | 6.32 | 1.76 | 6.25 | 1.76 | 6.25 | 1.77 | 6.19 | 1.79 |
| 15.0                            | 7.12                        | 1.84 | 6.98 | 1.88 | 6.85 | 1.91 | 6.78 | 1.92 | 6.78 | 1.93 | 6.71 | 1.95 |
| 20.0                            | 7.67                        | 1.99 | 7.52 | 2.03 | 7.38 | 2.07 | 7.30 | 2.08 | 7.30 | 2.09 | 7.23 | 2.11 |
| 24.0                            | 8.12                        | 2.11 | 7.96 | 2.16 | 7.80 | 2.20 | 7.72 | 2.21 | 7.72 | 2.22 | 7.64 | 2.24 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR18HSSDBWKNEU + AR18HSSDBWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 6.05                        | 2.84 | 1.42 | 5.67 | 3.57 | 1.43 | 6.05 | 3.81 | 1.44 | 6.05 | 4.30 | 1.45 | 6.43 | 4.05 | 1.45 | 6.81 | 4.02 | 1.46 | 6.81 | 4.56 | 1.46 |
| 0.0                             | 5.97                        | 2.81 | 1.40 | 5.59 | 3.52 | 1.41 | 5.97 | 3.76 | 1.42 | 5.97 | 4.24 | 1.43 | 6.35 | 4.00 | 1.43 | 6.73 | 3.97 | 1.44 | 6.73 | 4.51 | 1.44 |
| 10.0                            | 5.90                        | 2.77 | 1.40 | 5.52 | 3.48 | 1.41 | 5.90 | 3.72 | 1.42 | 5.90 | 4.19 | 1.41 | 6.28 | 3.96 | 1.43 | 6.66 | 3.93 | 1.44 | 6.66 | 4.46 | 1.44 |
| 20.0                            | 5.82                        | 2.74 | 1.36 | 5.44 | 3.43 | 1.37 | 5.82 | 3.67 | 1.38 | 5.82 | 4.13 | 1.39 | 6.20 | 3.91 | 1.40 | 6.58 | 3.88 | 1.42 | 6.58 | 4.41 | 1.43 |
| 25.0                            | 5.85                        | 2.75 | 1.61 | 5.47 | 3.45 | 1.62 | 5.85 | 3.69 | 1.63 | 5.85 | 4.15 | 1.64 | 6.23 | 3.92 | 1.66 | 6.61 | 3.90 | 1.67 | 6.61 | 4.43 | 1.69 |
| 32.0                            | 5.90                        | 2.77 | 1.97 | 5.52 | 3.48 | 1.98 | 5.90 | 3.72 | 2.00 | 5.90 | 4.19 | 2.01 | 6.28 | 3.96 | 2.03 | 6.66 | 3.93 | 2.05 | 6.66 | 4.46 | 2.07 |
| 35.0                            | 5.92                        | 2.78 | 2.16 | 5.54 | 3.49 | 2.17 | 5.92 | 3.73 | 2.19 | 5.92 | 4.20 | 2.20 | 6.30 | 3.97 | 2.21 | 6.68 | 3.94 | 2.22 | 6.68 | 4.48 | 2.23 |
| 40.0                            | 5.59                        | 2.63 | 2.14 | 5.21 | 3.28 | 2.17 | 5.59 | 3.52 | 2.19 | 5.59 | 3.97 | 2.21 | 5.97 | 3.76 | 2.23 | 6.35 | 3.75 | 2.25 | 6.35 | 4.25 | 2.28 |
| 43.0                            | 5.39                        | 2.53 | 2.13 | 5.01 | 3.16 | 2.15 | 5.39 | 3.40 | 2.20 | 5.39 | 3.83 | 2.22 | 5.77 | 3.64 | 2.25 | 6.15 | 3.63 | 2.28 | 6.15 | 4.12 | 2.31 |
| 46.0                            | 5.19                        | 2.44 | 2.14 | 4.81 | 3.03 | 2.16 | 5.19 | 3.27 | 2.21 | 5.19 | 3.68 | 2.23 | 5.57 | 3.51 | 2.25 | 5.95 | 3.51 | 2.30 | 5.95 | 3.99 | 2.34 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 4.47                        | 1.78 | 4.39 | 1.81 | 4.30 | 1.85 | 4.30 | 1.86 | 4.30 | 1.87 | 4.30 | 1.89 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 6.93                        | 1.72 | 6.79 | 1.75 | 6.66 | 1.79 | 6.66 | 1.80 | 6.66 | 1.81 | 6.66 | 1.82 |
| 2.0                             | 7.26                        | 1.71 | 7.11 | 1.74 | 6.98 | 1.78 | 6.98 | 1.79 | 6.98 | 1.80 | 6.98 | 1.82 |
| 5.0                             | 6.00                        | 1.31 | 5.89 | 1.33 | 5.77 | 1.36 | 5.71 | 1.37 | 5.66 | 1.37 | 5.54 | 1.39 |
| 7.0                             | 6.24                        | 1.40 | 6.12 | 1.43 | 6.00 | 1.46 | 5.94 | 1.47 | 5.94 | 1.47 | 5.88 | 1.49 |
| 10.0                            | 6.60                        | 1.50 | 6.47 | 1.53 | 6.34 | 1.61 | 6.28 | 1.62 | 6.28 | 1.63 | 6.22 | 1.64 |
| 15.0                            | 7.20                        | 1.79 | 7.06 | 1.82 | 6.92 | 1.86 | 6.85 | 1.87 | 6.85 | 1.88 | 6.78 | 1.90 |
| 20.0                            | 7.79                        | 2.03 | 7.64 | 2.07 | 7.49 | 2.11 | 7.42 | 2.12 | 7.42 | 2.13 | 7.34 | 2.15 |
| 24.0                            | 8.27                        | 2.22 | 8.11 | 2.26 | 7.95 | 2.31 | 7.87 | 2.32 | 7.87 | 2.33 | 7.79 | 2.36 |

### AR18JSFNCWKNEU + AR18JSFNCWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 4.60                        | 2.16 | 1.24 | 4.22 | 2.66 | 1.25 | 4.60 | 2.90 | 1.26 | 4.60 | 3.27 | 1.27 | 4.98 | 3.14 | 1.27 | 5.36 | 3.16 | 1.28 | 5.36 | 3.59 | 1.28 |
| 0.0                             | 4.88                        | 2.29 | 1.23 | 4.50 | 2.84 | 1.23 | 4.88 | 3.07 | 1.24 | 4.88 | 3.46 | 1.25 | 5.26 | 3.31 | 1.25 | 5.64 | 3.33 | 1.26 | 5.64 | 3.78 | 1.26 |
| 10.0                            | 5.17                        | 2.43 | 1.23 | 4.79 | 3.02 | 1.23 | 5.17 | 3.26 | 1.24 | 5.17 | 3.67 | 1.23 | 5.55 | 3.50 | 1.25 | 5.93 | 3.50 | 1.26 | 5.93 | 3.97 | 1.26 |
| 20.0                            | 5.45                        | 2.56 | 1.19 | 5.07 | 3.19 | 1.19 | 5.45 | 3.43 | 1.20 | 5.45 | 3.87 | 1.21 | 5.83 | 3.67 | 1.22 | 6.21 | 3.66 | 1.23 | 6.21 | 4.16 | 1.25 |
| 25.0                            | 5.52                        | 2.59 | 1.40 | 5.14 | 3.24 | 1.41 | 5.52 | 3.48 | 1.42 | 5.52 | 3.92 | 1.43 | 5.90 | 3.72 | 1.44 | 6.28 | 3.71 | 1.46 | 6.28 | 4.21 | 1.47 |
| 32.0                            | 5.61                        | 2.64 | 1.72 | 5.23 | 3.29 | 1.73 | 5.61 | 3.53 | 1.75 | 5.61 | 3.98 | 1.76 | 5.99 | 3.77 | 1.78 | 6.37 | 3.76 | 1.80 | 6.37 | 4.27 | 1.81 |
| 35.0                            | 5.65                        | 2.66 | 1.88 | 5.27 | 3.32 | 1.89 | 5.65 | 3.56 | 1.91 | 5.65 | 4.01 | 1.92 | 6.03 | 3.80 | 1.93 | 6.41 | 3.78 | 1.94 | 6.41 | 4.29 | 1.95 |
| 40.0                            | 4.90                        | 2.30 | 1.91 | 4.52 | 2.85 | 1.93 | 4.90 | 3.09 | 1.95 | 4.90 | 3.48 | 1.97 | 5.28 | 3.33 | 1.99 | 5.66 | 3.34 | 2.01 | 5.66 | 3.79 | 2.03 |
| 43.0                            | 4.45                        | 2.09 | 1.93 | 4.07 | 2.56 | 1.95 | 4.45 | 2.80 | 1.99 | 4.45 | 3.16 | 2.01 | 4.83 | 3.04 | 2.04 | 5.21 | 3.07 | 2.06 | 5.21 | 3.49 | 2.09 |
| 46.0                            | 4.00                        | 1.88 | 1.96 | 3.62 | 2.28 | 1.98 | 4.00 | 2.52 | 2.02 | 4.00 | 2.84 | 2.04 | 4.38 | 2.76 | 2.06 | 4.76 | 2.81 | 2.10 | 4.76 | 3.19 | 2.14 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 4.01                        | 1.72 | 3.93 | 1.75 | 3.85 | 1.79 | 3.85 | 1.80 | 3.85 | 1.81 | 3.85 | 1.83 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 6.87                        | 1.94 | 6.74 | 1.98 | 6.61 | 2.02 | 6.61 | 2.03 | 6.61 | 2.04 | 6.61 | 2.06 |
| 2.0                             | 7.26                        | 1.97 | 7.11 | 2.01 | 6.98 | 2.06 | 6.98 | 2.07 | 6.98 | 2.08 | 6.98 | 2.10 |
| 5.0                             | 6.02                        | 1.53 | 5.90 | 1.56 | 5.79 | 1.60 | 5.73 | 1.60 | 5.67 | 1.61 | 5.56 | 1.63 |
| 7.0                             | 6.24                        | 1.59 | 6.12 | 1.63 | 6.00 | 1.66 | 5.94 | 1.67 | 5.94 | 1.68 | 5.88 | 1.69 |
| 10.0                            | 6.57                        | 1.66 | 6.44 | 1.69 | 6.32 | 1.76 | 6.25 | 1.76 | 6.25 | 1.77 | 6.19 | 1.79 |
| 15.0                            | 7.12                        | 1.84 | 6.98 | 1.88 | 6.85 | 1.91 | 6.78 | 1.92 | 6.78 | 1.93 | 6.71 | 1.95 |
| 20.0                            | 7.67                        | 1.99 | 7.52 | 2.03 | 7.38 | 2.07 | 7.30 | 2.08 | 7.30 | 2.09 | 7.23 | 2.11 |
| 24.0                            | 8.12                        | 2.11 | 7.96 | 2.16 | 7.80 | 2.20 | 7.72 | 2.21 | 7.72 | 2.22 | 7.64 | 2.24 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4-1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR18JSFSBURNEU + AR18JSFSBURXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 4.60                        | 2.16 | 1.24 | 4.22 | 2.66 | 1.25 | 4.60 | 2.90 | 1.26 | 4.60 | 3.27 | 1.27 | 4.98 | 3.14 | 1.27 | 5.36 | 3.16 | 1.28 | 5.36 | 3.59 | 1.28 |
| 0.0                             | 4.88                        | 2.29 | 1.23 | 4.50 | 2.84 | 1.23 | 4.88 | 3.07 | 1.24 | 4.88 | 3.46 | 1.25 | 5.26 | 3.31 | 1.25 | 5.64 | 3.33 | 1.26 | 5.64 | 3.78 | 1.26 |
| 10.0                            | 5.17                        | 2.43 | 1.23 | 4.79 | 3.02 | 1.23 | 5.17 | 3.26 | 1.24 | 5.17 | 3.67 | 1.23 | 5.55 | 3.50 | 1.25 | 5.93 | 3.50 | 1.26 | 5.93 | 3.97 | 1.26 |
| 20.0                            | 5.45                        | 2.56 | 1.19 | 5.07 | 3.19 | 1.19 | 5.45 | 3.43 | 1.20 | 5.45 | 3.87 | 1.21 | 5.83 | 3.67 | 1.22 | 6.21 | 3.66 | 1.23 | 6.21 | 4.16 | 1.25 |
| 25.0                            | 5.52                        | 2.59 | 1.40 | 5.14 | 3.24 | 1.41 | 5.52 | 3.48 | 1.42 | 5.52 | 3.92 | 1.43 | 5.90 | 3.72 | 1.44 | 6.28 | 3.71 | 1.46 | 6.28 | 4.21 | 1.47 |
| 32.0                            | 5.61                        | 2.64 | 1.72 | 5.23 | 3.29 | 1.73 | 5.61 | 3.53 | 1.75 | 5.61 | 3.98 | 1.76 | 5.99 | 3.77 | 1.78 | 6.37 | 3.76 | 1.80 | 6.37 | 4.27 | 1.81 |
| 35.0                            | 5.65                        | 2.66 | 1.88 | 5.27 | 3.32 | 1.89 | 5.65 | 3.56 | 1.91 | 5.65 | 4.01 | 1.92 | 6.03 | 3.80 | 1.93 | 6.41 | 3.78 | 1.94 | 6.41 | 4.29 | 1.95 |
| 40.0                            | 4.90                        | 2.30 | 1.91 | 4.52 | 2.85 | 1.93 | 4.90 | 3.09 | 1.95 | 4.90 | 3.48 | 1.97 | 5.28 | 3.33 | 1.99 | 5.66 | 3.34 | 2.01 | 5.66 | 3.79 | 2.03 |
| 43.0                            | 4.45                        | 2.09 | 1.93 | 4.07 | 2.56 | 1.95 | 4.45 | 2.80 | 1.99 | 4.45 | 3.16 | 2.01 | 4.83 | 3.04 | 2.04 | 5.21 | 3.07 | 2.06 | 5.21 | 3.49 | 2.09 |
| 46.0                            | 4.00                        | 1.88 | 1.96 | 3.62 | 2.28 | 1.98 | 4.00 | 2.52 | 2.02 | 4.00 | 2.84 | 2.04 | 4.38 | 2.76 | 2.06 | 4.76 | 2.81 | 2.10 | 4.76 | 3.19 | 2.14 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature (°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                              | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                              | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                              | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                        | 4.01                        | 1.72 | 3.93 | 1.75 | 3.85 | 1.79 | 3.85 | 1.80 | 3.85 | 1.81 | 3.85 | 1.83 |
| -10.0                        | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                         | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                          | 6.87                        | 1.94 | 6.74 | 1.98 | 6.61 | 2.02 | 6.61 | 2.03 | 6.61 | 2.04 | 6.61 | 2.06 |
| 2.0                          | 7.26                        | 1.97 | 7.11 | 2.01 | 6.98 | 2.06 | 6.98 | 2.07 | 6.98 | 2.08 | 6.98 | 2.10 |
| 5.0                          | 6.02                        | 1.53 | 5.90 | 1.56 | 5.79 | 1.60 | 5.73 | 1.60 | 5.67 | 1.61 | 5.56 | 1.63 |
| 7.0                          | 6.24                        | 1.59 | 6.12 | 1.63 | 6.00 | 1.66 | 5.94 | 1.67 | 5.94 | 1.68 | 5.88 | 1.69 |
| 10.0                         | 6.57                        | 1.66 | 6.44 | 1.69 | 6.32 | 1.76 | 6.25 | 1.76 | 6.25 | 1.77 | 6.19 | 1.79 |
| 15.0                         | 7.12                        | 1.84 | 6.98 | 1.88 | 6.85 | 1.91 | 6.78 | 1.92 | 6.78 | 1.93 | 6.71 | 1.95 |
| 20.0                         | 7.67                        | 1.99 | 7.52 | 2.03 | 7.38 | 2.07 | 7.30 | 2.08 | 7.30 | 2.09 | 7.23 | 2.11 |
| 24.0                         | 8.12                        | 2.11 | 7.96 | 2.16 | 7.80 | 2.20 | 7.72 | 2.21 | 7.72 | 2.22 | 7.64 | 2.24 |

### AR24HSFNBWKNEU + AR24HSFNBWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 5.60                        | 2.63 | 1.71 | 5.22 | 3.29 | 1.71 | 5.60 | 3.53 | 1.73 | 5.60 | 3.98 | 1.74 | 5.98 | 3.77 | 1.75 | 6.36 | 3.75 | 1.75 | 6.36 | 4.26 | 1.76 |
| 0.0                             | 6.28                        | 2.95 | 1.72 | 5.90 | 3.72 | 1.72 | 6.28 | 3.96 | 1.74 | 6.28 | 4.46 | 1.75 | 6.66 | 4.20 | 1.76 | 7.04 | 4.15 | 1.76 | 7.04 | 4.72 | 1.77 |
| 10.0                            | 6.97                        | 3.28 | 1.72 | 6.59 | 4.15 | 1.72 | 6.97 | 4.39 | 1.74 | 6.97 | 4.95 | 1.75 | 7.35 | 4.63 | 1.76 | 7.73 | 4.56 | 1.76 | 7.73 | 5.18 | 1.77 |
| 20.0                            | 7.65                        | 3.60 | 1.72 | 7.27 | 4.58 | 1.73 | 7.65 | 4.82 | 1.75 | 7.65 | 5.43 | 1.76 | 8.03 | 5.06 | 1.78 | 8.41 | 4.96 | 1.80 | 8.41 | 5.63 | 1.81 |
| 25.0                            | 7.75                        | 3.64 | 2.04 | 7.37 | 4.64 | 2.05 | 7.75 | 4.88 | 2.07 | 7.75 | 5.50 | 2.08 | 8.13 | 5.12 | 2.10 | 8.51 | 5.02 | 2.12 | 8.51 | 5.70 | 2.14 |
| 32.0                            | 7.89                        | 3.71 | 2.51 | 7.51 | 4.73 | 2.52 | 7.89 | 4.97 | 2.55 | 7.89 | 5.60 | 2.56 | 8.27 | 5.21 | 2.59 | 8.65 | 5.10 | 2.61 | 8.65 | 5.80 | 2.64 |
| 35.0                            | 7.95                        | 3.74 | 2.74 | 7.57 | 4.77 | 2.76 | 7.95 | 5.01 | 2.79 | 7.95 | 5.64 | 2.80 | 8.33 | 5.25 | 2.81 | 8.71 | 5.14 | 2.83 | 8.71 | 5.84 | 2.84 |
| 40.0                            | 7.25                        | 3.41 | 2.79 | 6.87 | 4.33 | 2.82 | 7.25 | 4.57 | 2.85 | 7.25 | 5.15 | 2.88 | 7.63 | 4.81 | 2.91 | 8.01 | 4.73 | 2.94 | 8.01 | 5.37 | 2.97 |
| 43.0                            | 6.82                        | 3.21 | 2.80 | 6.44 | 4.06 | 2.83 | 6.82 | 4.30 | 2.89 | 6.82 | 4.84 | 2.92 | 7.20 | 4.54 | 2.96 | 7.58 | 4.47 | 3.00 | 7.58 | 5.08 | 3.04 |
| 46.0                            | 6.40                        | 3.01 | 2.85 | 6.02 | 3.79 | 2.88 | 6.40 | 4.03 | 2.94 | 6.40 | 4.54 | 2.97 | 6.78 | 4.27 | 3.00 | 7.16 | 4.22 | 3.06 | 7.16 | 4.80 | 3.12 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature (°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                              | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                              | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                              | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                        | 6.46                        | 2.62 | 6.33 | 2.68 | 6.21 | 2.73 | 6.21 | 2.74 | 6.21 | 2.76 | 6.21 | 2.78 |
| -10.0                        | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                         | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                          | 9.02                        | 2.85 | 8.85 | 2.91 | 8.67 | 2.97 | 8.67 | 2.98 | 8.67 | 3.00 | 8.67 | 3.03 |
| 2.0                          | 9.36                        | 2.88 | 9.18 | 2.94 | 9.00 | 3.00 | 9.00 | 3.02 | 9.00 | 3.03 | 9.00 | 3.06 |
| 5.0                          | 8.18                        | 2.20 | 8.02 | 2.24 | 7.86 | 2.29 | 7.79 | 2.30 | 7.71 | 2.31 | 7.55 | 2.33 |
| 7.0                          | 8.32                        | 2.26 | 8.16 | 2.30 | 8.00 | 2.35 | 7.92 | 2.36 | 7.92 | 2.37 | 7.84 | 2.40 |
| 10.0                         | 8.53                        | 2.32 | 8.37 | 2.36 | 8.20 | 2.44 | 8.12 | 2.46 | 8.12 | 2.47 | 8.04 | 2.49 |
| 15.0                         | 8.89                        | 2.50 | 8.71 | 2.55 | 8.54 | 2.60 | 8.46 | 2.61 | 8.46 | 2.63 | 8.37 | 2.65 |
| 20.0                         | 9.24                        | 2.65 | 9.06 | 2.70 | 8.88 | 2.76 | 8.79 | 2.77 | 8.79 | 2.78 | 8.70 | 2.81 |
| 24.0                         | 9.52                        | 2.77 | 9.33 | 2.82 | 9.15 | 2.88 | 9.06 | 2.89 | 9.06 | 2.91 | 8.97 | 2.94 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

### AR24HSFSAWKNEU + AR24HSFSAWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 5.60                        | 2.63 | 1.71 | 5.22 | 3.29 | 1.71 | 5.60 | 3.53 | 1.73 | 5.60 | 3.98 | 1.74 | 5.98 | 3.77 | 1.75 | 6.36 | 3.75 | 1.75 | 6.36 | 4.26 | 1.76 |
| 0.0                             | 6.28                        | 2.95 | 1.72 | 5.90 | 3.72 | 1.72 | 6.28 | 3.96 | 1.74 | 6.28 | 4.46 | 1.75 | 6.66 | 4.20 | 1.76 | 7.04 | 4.15 | 1.76 | 7.04 | 4.72 | 1.77 |
| 10.0                            | 6.97                        | 3.28 | 1.72 | 6.59 | 4.15 | 1.72 | 6.97 | 4.39 | 1.74 | 6.97 | 4.95 | 1.75 | 7.35 | 4.63 | 1.76 | 7.73 | 4.56 | 1.76 | 7.73 | 5.18 | 1.77 |
| 20.0                            | 7.65                        | 3.60 | 1.72 | 7.27 | 4.58 | 1.73 | 7.65 | 4.82 | 1.75 | 7.65 | 5.43 | 1.76 | 8.03 | 5.06 | 1.78 | 8.41 | 4.96 | 1.80 | 8.41 | 5.63 | 1.81 |
| 25.0                            | 7.75                        | 3.64 | 2.04 | 7.37 | 4.64 | 2.05 | 7.75 | 4.88 | 2.07 | 7.75 | 5.50 | 2.08 | 8.13 | 5.12 | 2.10 | 8.51 | 5.02 | 2.12 | 8.51 | 5.70 | 2.14 |
| 32.0                            | 7.89                        | 3.71 | 2.51 | 7.51 | 4.73 | 2.52 | 7.89 | 4.97 | 2.55 | 7.89 | 5.60 | 2.56 | 8.27 | 5.21 | 2.59 | 8.65 | 5.10 | 2.61 | 8.65 | 5.80 | 2.64 |
| 35.0                            | 7.95                        | 3.74 | 2.74 | 7.57 | 4.77 | 2.76 | 7.95 | 5.01 | 2.79 | 7.95 | 5.64 | 2.80 | 8.33 | 5.25 | 2.81 | 8.71 | 5.14 | 2.83 | 8.71 | 5.84 | 2.84 |
| 40.0                            | 7.25                        | 3.41 | 2.79 | 6.87 | 4.33 | 2.82 | 7.25 | 4.57 | 2.85 | 7.25 | 5.15 | 2.88 | 7.63 | 4.81 | 2.91 | 8.01 | 4.73 | 2.94 | 8.01 | 5.37 | 2.97 |
| 43.0                            | 6.82                        | 3.21 | 2.80 | 6.44 | 4.06 | 2.83 | 6.82 | 4.30 | 2.89 | 6.82 | 4.84 | 2.92 | 7.20 | 4.54 | 2.96 | 7.58 | 4.47 | 3.00 | 7.58 | 5.08 | 3.04 |
| 46.0                            | 6.40                        | 3.01 | 2.85 | 6.02 | 3.79 | 2.88 | 6.40 | 4.03 | 2.94 | 6.40 | 4.54 | 2.97 | 6.78 | 4.27 | 3.00 | 7.16 | 4.22 | 3.06 | 7.16 | 4.80 | 3.12 |

#### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 6.46                        | 2.62 | 6.33 | 2.68 | 6.21 | 2.73 | 6.21 | 2.74 | 6.21 | 2.76 | 6.21 | 2.78 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 9.02                        | 2.85 | 8.85 | 2.91 | 8.67 | 2.97 | 8.67 | 2.98 | 8.67 | 3.00 | 8.67 | 3.03 |
| 2.0                             | 9.36                        | 2.88 | 9.18 | 2.94 | 9.00 | 3.00 | 9.00 | 3.02 | 9.00 | 3.03 | 9.00 | 3.06 |
| 5.0                             | 8.18                        | 2.20 | 8.02 | 2.24 | 7.86 | 2.29 | 7.79 | 2.30 | 7.71 | 2.31 | 7.55 | 2.33 |
| 7.0                             | 8.32                        | 2.26 | 8.16 | 2.30 | 8.00 | 2.35 | 7.92 | 2.36 | 7.92 | 2.37 | 7.84 | 2.40 |
| 10.0                            | 8.53                        | 2.32 | 8.37 | 2.36 | 8.20 | 2.44 | 8.12 | 2.46 | 8.12 | 2.47 | 8.04 | 2.49 |
| 15.0                            | 8.89                        | 2.50 | 8.71 | 2.55 | 8.54 | 2.60 | 8.46 | 2.61 | 8.46 | 2.63 | 8.37 | 2.65 |
| 20.0                            | 9.24                        | 2.65 | 9.06 | 2.70 | 8.88 | 2.76 | 8.79 | 2.77 | 8.79 | 2.78 | 8.70 | 2.81 |
| 24.0                            | 9.52                        | 2.77 | 9.33 | 2.82 | 9.15 | 2.88 | 9.06 | 2.89 | 9.06 | 2.91 | 8.97 | 2.94 |

### AR24HSSDBWKNEU + AR24HSSDBWKXEU

#### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 5.60                        | 2.63 | 1.71 | 5.22 | 3.29 | 1.71 | 5.60 | 3.53 | 1.73 | 5.60 | 3.98 | 1.74 | 5.98 | 3.77 | 1.75 | 6.36 | 3.75 | 1.75 | 6.36 | 4.26 | 1.76 |
| 0.0                             | 6.28                        | 2.95 | 1.72 | 5.90 | 3.72 | 1.72 | 6.28 | 3.96 | 1.74 | 6.28 | 4.46 | 1.75 | 6.66 | 4.20 | 1.76 | 7.04 | 4.15 | 1.76 | 7.04 | 4.72 | 1.77 |
| 10.0                            | 6.97                        | 3.28 | 1.72 | 6.59 | 4.15 | 1.72 | 6.97 | 4.39 | 1.74 | 6.97 | 4.95 | 1.75 | 7.35 | 4.63 | 1.76 | 7.73 | 4.56 | 1.76 | 7.73 | 5.18 | 1.77 |
| 20.0                            | 7.65                        | 3.60 | 1.72 | 7.27 | 4.58 | 1.73 | 7.65 | 4.82 | 1.75 | 7.65 | 5.43 | 1.76 | 8.03 | 5.06 | 1.78 | 8.41 | 4.96 | 1.80 | 8.41 | 5.63 | 1.81 |
| 25.0                            | 7.75                        | 3.64 | 2.04 | 7.37 | 4.64 | 2.05 | 7.75 | 4.88 | 2.07 | 7.75 | 5.50 | 2.08 | 8.13 | 5.12 | 2.10 | 8.51 | 5.02 | 2.12 | 8.51 | 5.70 | 2.14 |
| 32.0                            | 7.89                        | 3.71 | 2.51 | 7.51 | 4.73 | 2.52 | 7.89 | 4.97 | 2.55 | 7.89 | 5.60 | 2.56 | 8.27 | 5.21 | 2.59 | 8.65 | 5.10 | 2.61 | 8.65 | 5.80 | 2.64 |
| 35.0                            | 7.95                        | 3.74 | 2.74 | 7.57 | 4.77 | 2.76 | 7.95 | 5.01 | 2.79 | 7.95 | 5.64 | 2.80 | 8.33 | 5.25 | 2.81 | 8.71 | 5.14 | 2.83 | 8.71 | 5.84 | 2.84 |
| 40.0                            | 7.25                        | 3.41 | 2.79 | 6.87 | 4.33 | 2.82 | 7.25 | 4.57 | 2.85 | 7.25 | 5.15 | 2.88 | 7.63 | 4.81 | 2.91 | 8.01 | 4.73 | 2.94 | 8.01 | 5.37 | 2.97 |
| 43.0                            | 6.82                        | 3.21 | 2.80 | 6.44 | 4.06 | 2.83 | 6.82 | 4.30 | 2.89 | 6.82 | 4.84 | 2.92 | 7.20 | 4.54 | 2.96 | 7.58 | 4.47 | 3.00 | 7.58 | 5.08 | 3.04 |
| 46.0                            | 6.40                        | 3.01 | 2.85 | 6.02 | 3.79 | 2.88 | 6.40 | 4.03 | 2.94 | 6.40 | 4.54 | 2.97 | 6.78 | 4.27 | 3.00 | 7.16 | 4.22 | 3.06 | 7.16 | 4.80 | 3.12 |

#### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 6.46                        | 2.62 | 6.33 | 2.68 | 6.21 | 2.73 | 6.21 | 2.74 | 6.21 | 2.76 | 6.21 | 2.78 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 9.02                        | 2.85 | 8.85 | 2.91 | 8.67 | 2.97 | 8.67 | 2.98 | 8.67 | 3.00 | 8.67 | 3.03 |
| 2.0                             | 9.36                        | 2.88 | 9.18 | 2.94 | 9.00 | 3.00 | 9.00 | 3.02 | 9.00 | 3.03 | 9.00 | 3.06 |
| 5.0                             | 8.18                        | 2.20 | 8.02 | 2.24 | 7.86 | 2.29 | 7.79 | 2.30 | 7.71 | 2.31 | 7.55 | 2.33 |
| 7.0                             | 8.32                        | 2.26 | 8.16 | 2.30 | 8.00 | 2.35 | 7.92 | 2.36 | 7.92 | 2.37 | 7.84 | 2.40 |
| 10.0                            | 8.53                        | 2.32 | 8.37 | 2.36 | 8.20 | 2.44 | 8.12 | 2.46 | 8.12 | 2.47 | 8.04 | 2.49 |
| 15.0                            | 8.89                        | 2.50 | 8.71 | 2.55 | 8.54 | 2.60 | 8.46 | 2.61 | 8.46 | 2.63 | 8.37 | 2.65 |
| 20.0                            | 9.24                        | 2.65 | 9.06 | 2.70 | 8.88 | 2.76 | 8.79 | 2.77 | 8.79 | 2.78 | 8.70 | 2.81 |
| 24.0                            | 9.52                        | 2.77 | 9.33 | 2.82 | 9.15 | 2.88 | 9.06 | 2.89 | 9.06 | 2.91 | 8.97 | 2.94 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

. Level difference : 0m.

# 3 Capacity table

## Inverter(HP)

AR24JSFNCWKNEU + AR24JSFNCWKXEU

### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 5.60                        | 2.63 | 1.71 | 5.22 | 3.29 | 1.71 | 5.60 | 3.53 | 1.73 | 5.60 | 3.98 | 1.74 | 5.98 | 3.77 | 1.75 | 6.36 | 3.75 | 1.75 | 6.36 | 4.26 | 1.76 |
| 0.0                             | 6.28                        | 2.95 | 1.72 | 5.90 | 3.72 | 1.72 | 6.28 | 3.96 | 1.74 | 6.28 | 4.46 | 1.75 | 6.66 | 4.20 | 1.76 | 7.04 | 4.15 | 1.76 | 7.04 | 4.72 | 1.77 |
| 10.0                            | 6.97                        | 3.28 | 1.72 | 6.59 | 4.15 | 1.72 | 6.97 | 4.39 | 1.74 | 6.97 | 4.95 | 1.75 | 7.35 | 4.63 | 1.76 | 7.73 | 4.56 | 1.76 | 7.73 | 5.18 | 1.77 |
| 20.0                            | 7.65                        | 3.60 | 1.72 | 7.27 | 4.58 | 1.73 | 7.65 | 4.82 | 1.75 | 7.65 | 5.43 | 1.76 | 8.03 | 5.06 | 1.78 | 8.41 | 4.96 | 1.80 | 8.41 | 5.63 | 1.81 |
| 25.0                            | 7.75                        | 3.64 | 2.04 | 7.37 | 4.64 | 2.05 | 7.75 | 4.88 | 2.07 | 7.75 | 5.50 | 2.08 | 8.13 | 5.12 | 2.10 | 8.51 | 5.02 | 2.12 | 8.51 | 5.70 | 2.14 |
| 32.0                            | 7.89                        | 3.71 | 2.51 | 7.51 | 4.73 | 2.52 | 7.89 | 4.97 | 2.55 | 7.89 | 5.60 | 2.56 | 8.27 | 5.21 | 2.59 | 8.65 | 5.10 | 2.61 | 8.65 | 5.80 | 2.64 |
| 35.0                            | 7.95                        | 3.74 | 2.74 | 7.57 | 4.77 | 2.76 | 7.95 | 5.01 | 2.79 | 7.95 | 5.64 | 2.80 | 8.33 | 5.25 | 2.81 | 8.71 | 5.14 | 2.83 | 8.71 | 5.84 | 2.84 |
| 40.0                            | 7.25                        | 3.41 | 2.79 | 6.87 | 4.33 | 2.82 | 7.25 | 4.57 | 2.85 | 7.25 | 5.15 | 2.88 | 7.63 | 4.81 | 2.91 | 8.01 | 4.73 | 2.94 | 8.01 | 5.37 | 2.97 |
| 43.0                            | 6.82                        | 3.21 | 2.80 | 6.44 | 4.06 | 2.83 | 6.82 | 4.30 | 2.89 | 6.82 | 4.84 | 2.92 | 7.20 | 4.54 | 2.96 | 7.58 | 4.47 | 3.00 | 7.58 | 5.08 | 3.04 |
| 46.0                            | 6.40                        | 3.01 | 2.85 | 6.02 | 3.79 | 2.88 | 6.40 | 4.03 | 2.94 | 6.40 | 4.54 | 2.97 | 6.78 | 4.27 | 3.00 | 7.16 | 4.22 | 3.06 | 7.16 | 4.80 | 3.12 |

### Heating

TC : Total Capacity, PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 6.46                        | 2.62 | 6.33 | 2.68 | 6.21 | 2.73 | 6.21 | 2.74 | 6.21 | 2.76 | 6.21 | 2.78 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 9.02                        | 2.85 | 8.85 | 2.91 | 8.67 | 2.97 | 8.67 | 2.98 | 8.67 | 3.00 | 8.67 | 3.03 |
| 2.0                             | 9.36                        | 2.88 | 9.18 | 2.94 | 9.00 | 3.00 | 9.00 | 3.02 | 9.00 | 3.03 | 9.00 | 3.06 |
| 5.0                             | 8.18                        | 2.20 | 8.02 | 2.24 | 7.86 | 2.29 | 7.79 | 2.30 | 7.71 | 2.31 | 7.55 | 2.33 |
| 7.0                             | 8.32                        | 2.26 | 8.16 | 2.30 | 8.00 | 2.35 | 7.92 | 2.36 | 7.92 | 2.37 | 7.84 | 2.40 |
| 10.0                            | 8.53                        | 2.32 | 8.37 | 2.36 | 8.20 | 2.44 | 8.12 | 2.46 | 8.12 | 2.47 | 8.04 | 2.49 |
| 15.0                            | 8.89                        | 2.50 | 8.71 | 2.55 | 8.54 | 2.60 | 8.46 | 2.61 | 8.46 | 2.63 | 8.37 | 2.65 |
| 20.0                            | 9.24                        | 2.65 | 9.06 | 2.70 | 8.88 | 2.76 | 8.79 | 2.77 | 8.79 | 2.78 | 8.70 | 2.81 |
| 24.0                            | 9.52                        | 2.77 | 9.33 | 2.82 | 9.15 | 2.88 | 9.06 | 2.89 | 9.06 | 2.91 | 8.97 | 2.94 |

AR24JSFSBURNEU + AR24JSFSBURXEU

### Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, WB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 14.0                        |      |      | 16.0 |      |      | 18.0 |      |      | 19.0 |      |      | 20.0 |      |      | 22.0 |      |      | 24.0 |      |      |
|                                 | TC                          | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -10.0                           | 5.60                        | 2.63 | 1.71 | 5.22 | 3.29 | 1.71 | 5.60 | 3.53 | 1.73 | 5.60 | 3.98 | 1.74 | 5.98 | 3.77 | 1.75 | 6.36 | 3.75 | 1.75 | 6.36 | 4.26 | 1.76 |
| 0.0                             | 6.28                        | 2.95 | 1.72 | 5.90 | 3.72 | 1.72 | 6.28 | 3.96 | 1.74 | 6.28 | 4.46 | 1.75 | 6.66 | 4.20 | 1.76 | 7.04 | 4.15 | 1.76 | 7.04 | 4.72 | 1.77 |
| 10.0                            | 6.97                        | 3.28 | 1.72 | 6.59 | 4.15 | 1.72 | 6.97 | 4.39 | 1.74 | 6.97 | 4.95 | 1.75 | 7.35 | 4.63 | 1.76 | 7.73 | 4.56 | 1.76 | 7.73 | 5.18 | 1.77 |
| 20.0                            | 7.65                        | 3.60 | 1.72 | 7.27 | 4.58 | 1.73 | 7.65 | 4.82 | 1.75 | 7.65 | 5.43 | 1.76 | 8.03 | 5.06 | 1.78 | 8.41 | 4.96 | 1.80 | 8.41 | 5.63 | 1.81 |
| 25.0                            | 7.75                        | 3.64 | 2.04 | 7.37 | 4.64 | 2.05 | 7.75 | 4.88 | 2.07 | 7.75 | 5.50 | 2.08 | 8.13 | 5.12 | 2.10 | 8.51 | 5.02 | 2.12 | 8.51 | 5.70 | 2.14 |
| 32.0                            | 7.89                        | 3.71 | 2.51 | 7.51 | 4.73 | 2.52 | 7.89 | 4.97 | 2.55 | 7.89 | 5.60 | 2.56 | 8.27 | 5.21 | 2.59 | 8.65 | 5.10 | 2.61 | 8.65 | 5.80 | 2.64 |
| 35.0                            | 7.95                        | 3.74 | 2.74 | 7.57 | 4.77 | 2.76 | 7.95 | 5.01 | 2.79 | 7.95 | 5.64 | 2.80 | 8.33 | 5.25 | 2.81 | 8.71 | 5.14 | 2.83 | 8.71 | 5.84 | 2.84 |
| 40.0                            | 7.25                        | 3.41 | 2.79 | 6.87 | 4.33 | 2.82 | 7.25 | 4.57 | 2.85 | 7.25 | 5.15 | 2.88 | 7.63 | 4.81 | 2.91 | 8.01 | 4.73 | 2.94 | 8.01 | 5.37 | 2.97 |
| 43.0                            | 6.82                        | 3.21 | 2.80 | 6.44 | 4.06 | 2.83 | 6.82 | 4.30 | 2.89 | 6.82 | 4.84 | 2.92 | 7.20 | 4.54 | 2.96 | 7.58 | 4.47 | 3.00 | 7.58 | 5.08 | 3.04 |
| 46.0                            | 6.40                        | 3.01 | 2.85 | 6.02 | 3.79 | 2.88 | 6.40 | 4.03 | 2.94 | 6.40 | 4.54 | 2.97 | 6.78 | 4.27 | 3.00 | 7.16 | 4.22 | 3.06 | 7.16 | 4.80 | 3.12 |

### Heating

TC : Total Capacity PI: Power Input

| Outdoor temperature<br>(°C, DB) | Indoor temperature (°C, DB) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                 | 16.0                        |      | 18.0 |      | 20.0 |      | 21.0 |      | 22.0 |      | 24.0 |      |
|                                 | TC                          | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |
|                                 | kW                          | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   | kW   |
| -15.0                           | 6.46                        | 2.62 | 6.33 | 2.68 | 6.21 | 2.73 | 6.21 | 2.74 | 6.21 | 2.76 | 6.21 | 2.78 |
| -10.0                           | 4.37                        | 1.66 | 4.28 | 1.70 | 4.20 | 1.73 | 4.20 | 1.74 | 4.20 | 1.75 | 4.20 | 1.76 |
| -5.0                            | 4.99                        | 1.82 | 4.90 | 1.85 | 4.80 | 1.89 | 4.80 | 1.90 | 4.80 | 1.91 | 4.80 | 1.93 |
| 0.0                             | 9.02                        | 2.85 | 8.85 | 2.91 | 8.67 | 2.97 | 8.67 | 2.98 | 8.67 | 3.00 | 8.67 | 3.03 |
| 2.0                             | 9.36                        | 2.88 | 9.18 | 2.94 | 9.00 | 3.00 | 9.00 | 3.02 | 9.00 | 3.03 | 9.00 | 3.06 |
| 5.0                             | 8.18                        | 2.20 | 8.02 | 2.24 | 7.86 | 2.29 | 7.79 | 2.30 | 7.71 | 2.31 | 7.55 | 2.33 |
| 7.0                             | 8.32                        | 2.26 | 8.16 | 2.30 | 8.00 | 2.35 | 7.92 | 2.36 | 7.92 | 2.37 | 7.84 | 2.40 |
| 10.0                            | 8.53                        | 2.32 | 8.37 | 2.36 | 8.20 | 2.44 | 8.12 | 2.46 | 8.12 | 2.47 | 8.04 | 2.49 |
| 15.0                            | 8.89                        | 2.50 | 8.71 | 2.55 | 8.54 | 2.60 | 8.46 | 2.61 | 8.46 | 2.63 | 8.37 | 2.65 |
| 20.0                            | 9.24                        | 2.65 | 9.06 | 2.70 | 8.88 | 2.76 | 8.79 | 2.77 | 8.79 | 2.78 | 8.70 | 2.81 |
| 24.0                            | 9.52                        | 2.77 | 9.33 | 2.82 | 9.15 | 2.88 | 9.06 | 2.89 | 9.06 | 2.91 | 8.97 | 2.94 |

- Capacities are based on following conditions;

. Cooling mode indoor air temperature (°C, DB/WB) : 20/14, 22/16, 25/18, 27/19, 28/20, 30/22, 32/24

. Heating mode outdoor air : 85%RH. However, the condition rated capacity is 7°C DB / 6°C WB.

. Heating mode outdoor air temperature (°C, DB/WB) : -15/-16, -10/-11, -5/-6, 0/-1, 2/1, 5/4.1, 7/6, 10/9, 15/13.7, 20/16, 24/18

. Refrigerant piping length : 7.5m

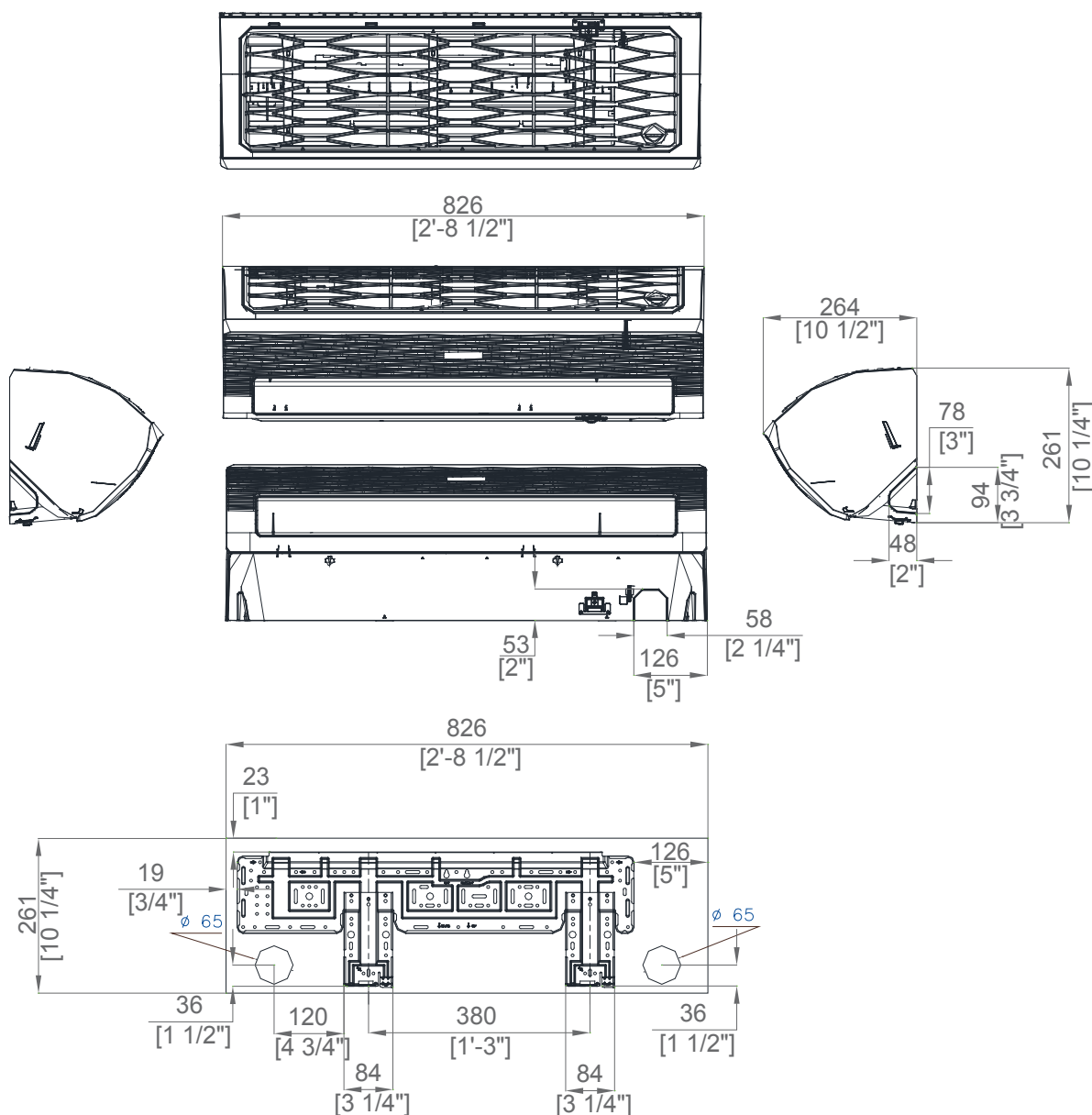
. Level difference : 0m.

## 4 Dimensional drawing

### Inverter(HP)

AR09HSFNBWKNET, AR09HSFNMWKNZE, AR12HSFNBWKNET, AR12HSFNMWKNZE

Units : mm / inches



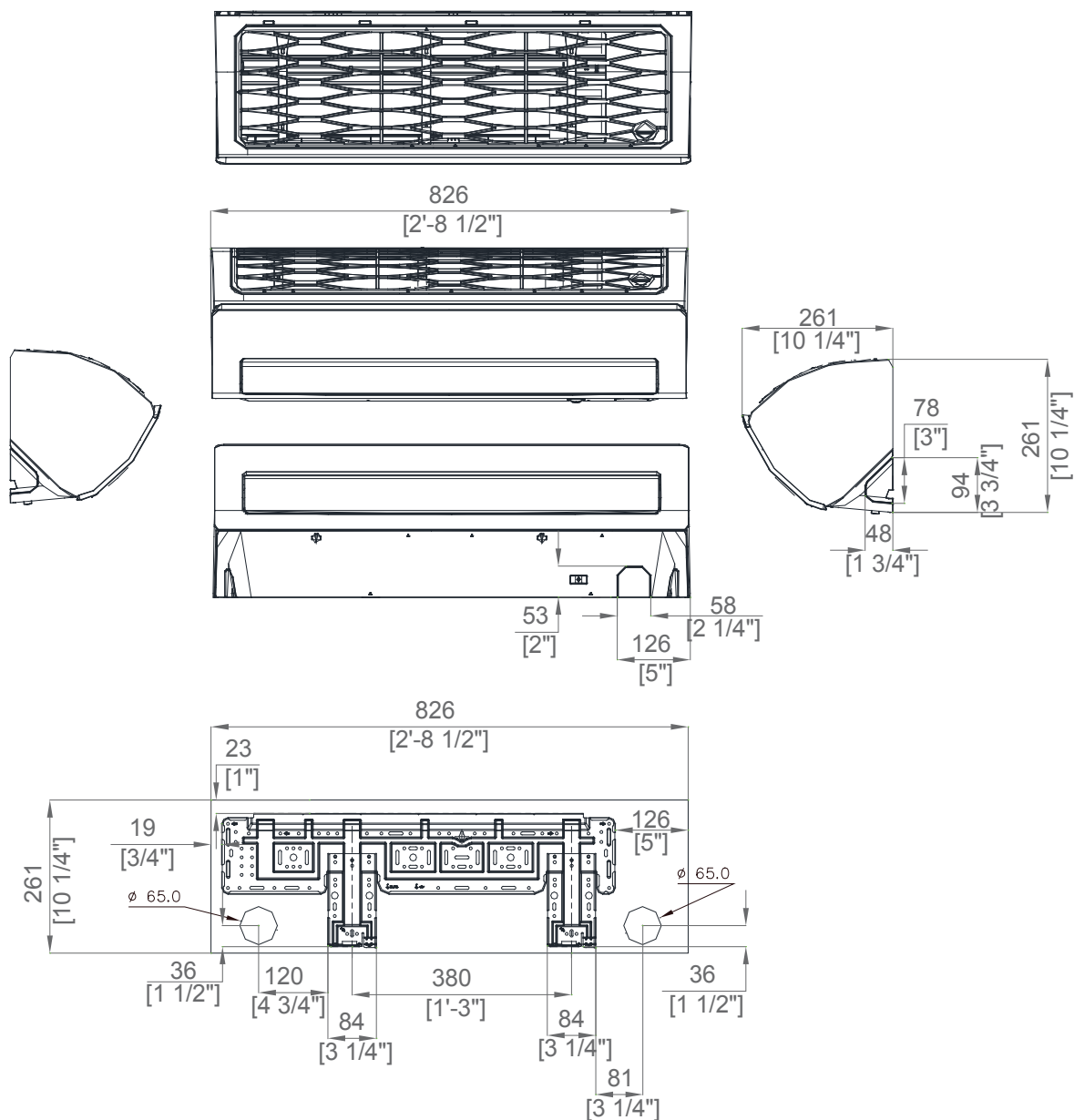
| No. | Name                    | Description |
|-----|-------------------------|-------------|
|     |                         | 9 / 12kBtu  |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |
| 3   | Drain pipe connection   | 18 Hose     |

## 4 Dimensional drawing

### Inverter(HP)

AR09HSFSBWKNET, AR09HSFSBWKNZE, AR12HSFSAWKNET, AR12HSFSAWKNE

Units : mm / inches



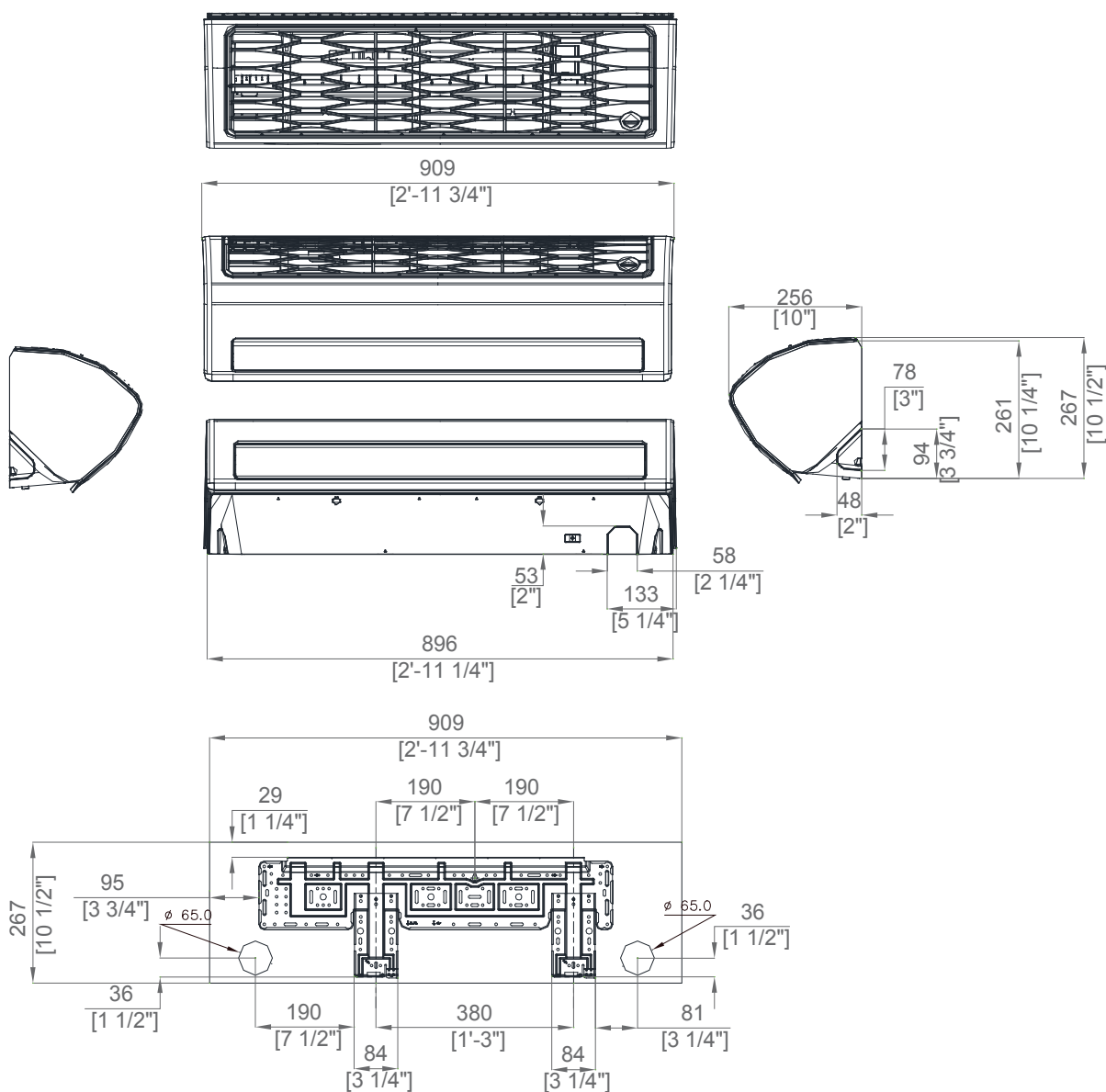
| No. | Name                    | Description |
|-----|-------------------------|-------------|
|     |                         | 9 / 12kBtu  |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |
| 3   | Drain pipe connection   | 18 Hose     |

## 4 Dimensional drawing

### Inverter(HP)

AR09HSSDAWKNEU, AR12HSSDAWKNEU

Units : mm / inches



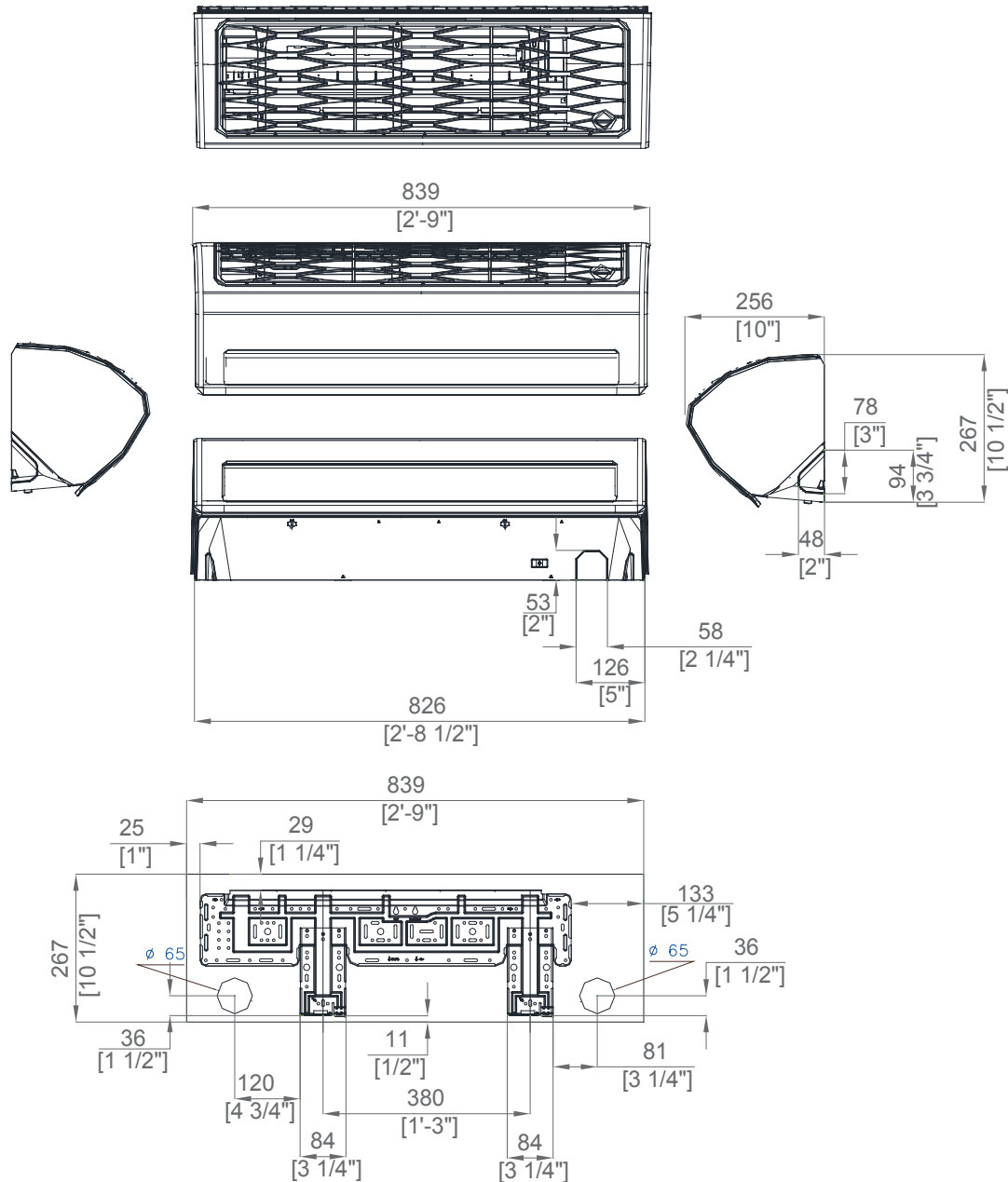
| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 9kBtu       | 12kBtu |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 18 Hose     |        |

## 4

## Inverter(HP)

AR09HSSDBWKNEU, AR12HSSDBWKNEU

Units : mm / inches



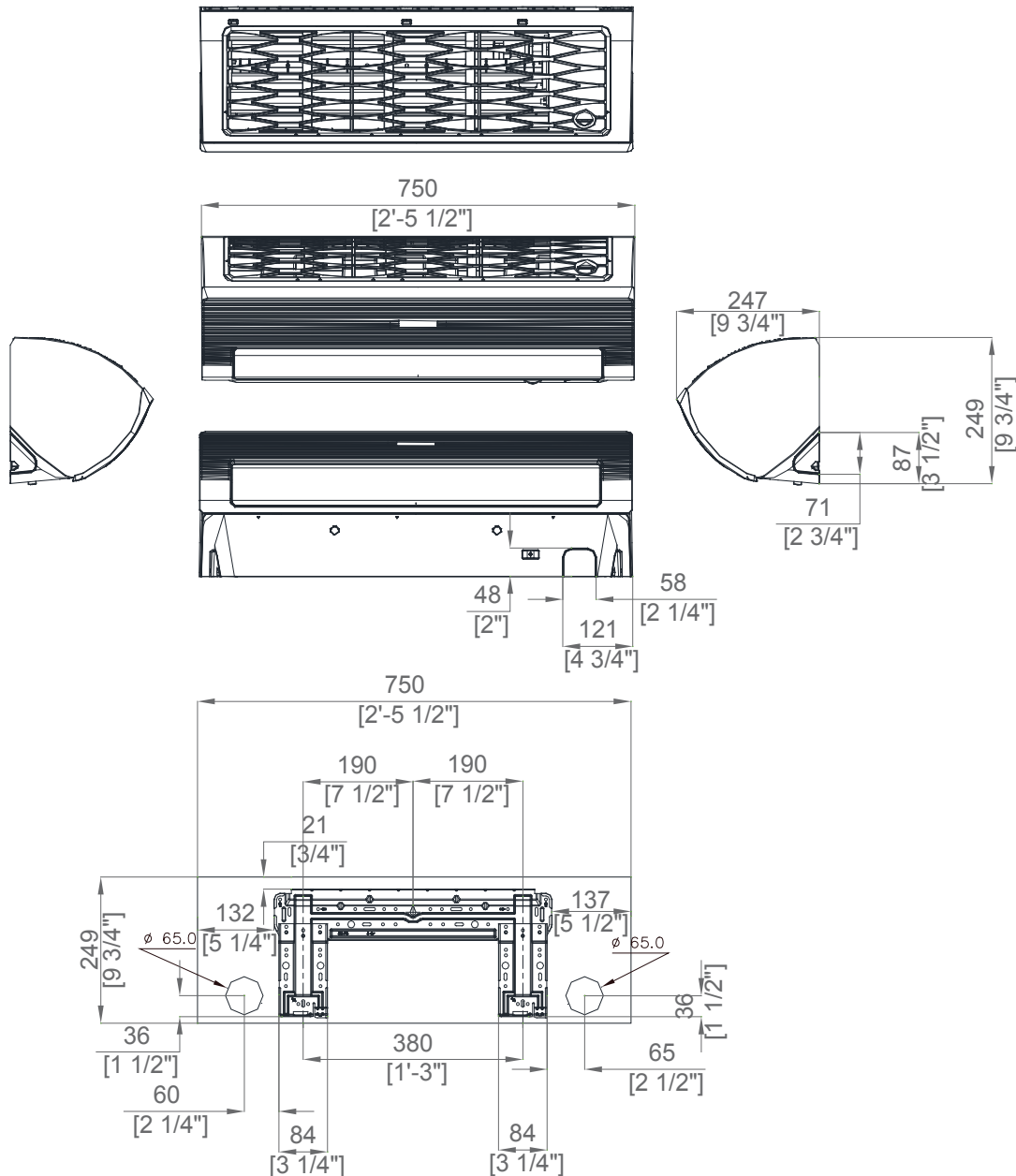
| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 9kBtu       | 12kBtu |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 18 Hose     |        |

## 4 Dimensional drawing

### Inverter(HP)

AR09JSFNCWKNET, AR09JSFNCWKNE, AR12JSFNCWKNET, AR12JSFNCWKNE

Units : mm / inches



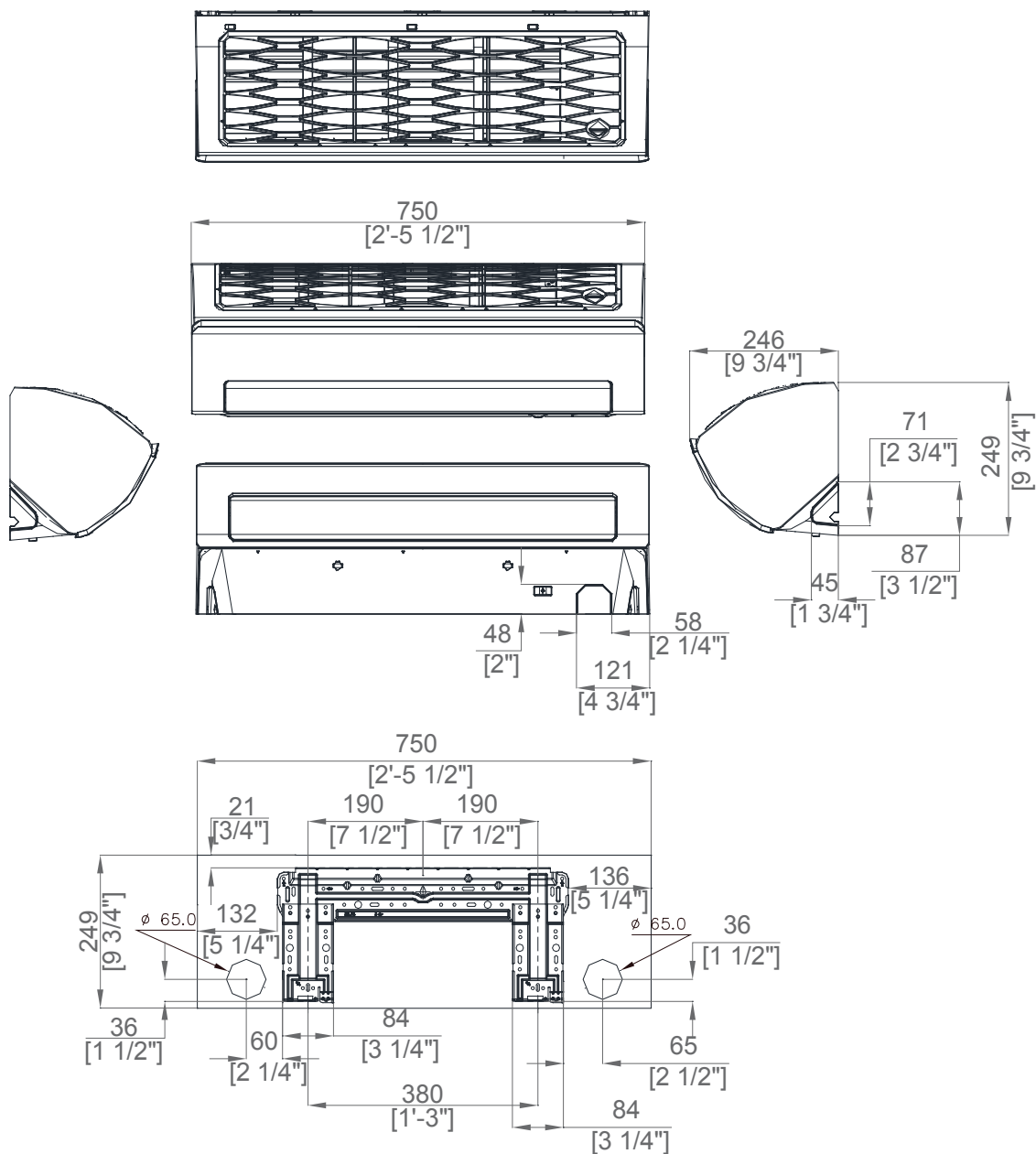
| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 9kBtu       | 12kBtu |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 18 Hose     |        |

4

## Inverter(HP)

AR09JSFSBURNET, AR12JSFSBURNET

Units : mm / inches



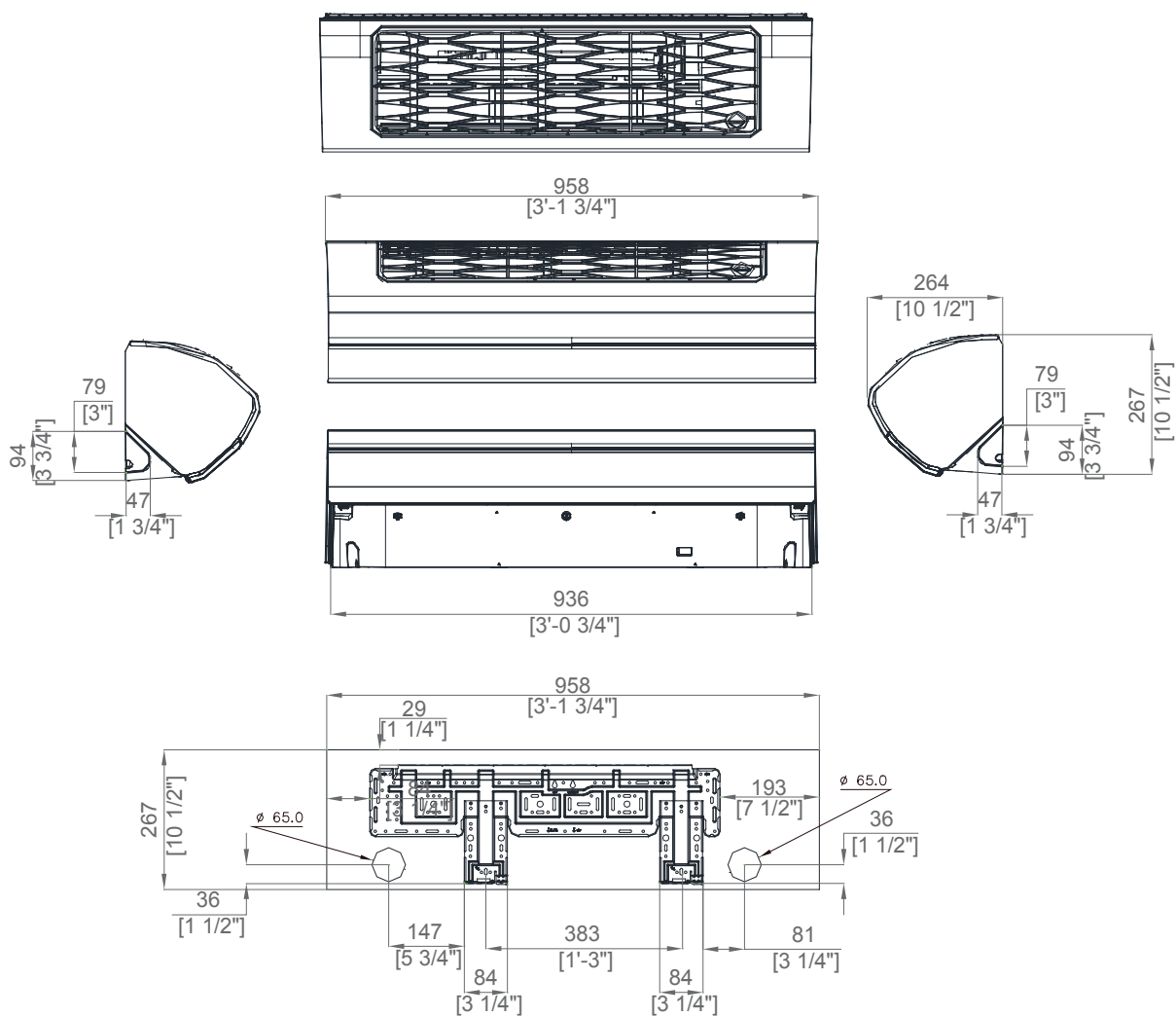
| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 9kBtu       | 12kBtu |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 18 Hose     |        |

## 4 Dimensional drawing

### Inverter(HP)

AR09JSPFAWKNEU, AR09JSPFBWKNEU, AR12JSPFAWKNEU, AR12JSPFBWKNEU

Units : mm / inches



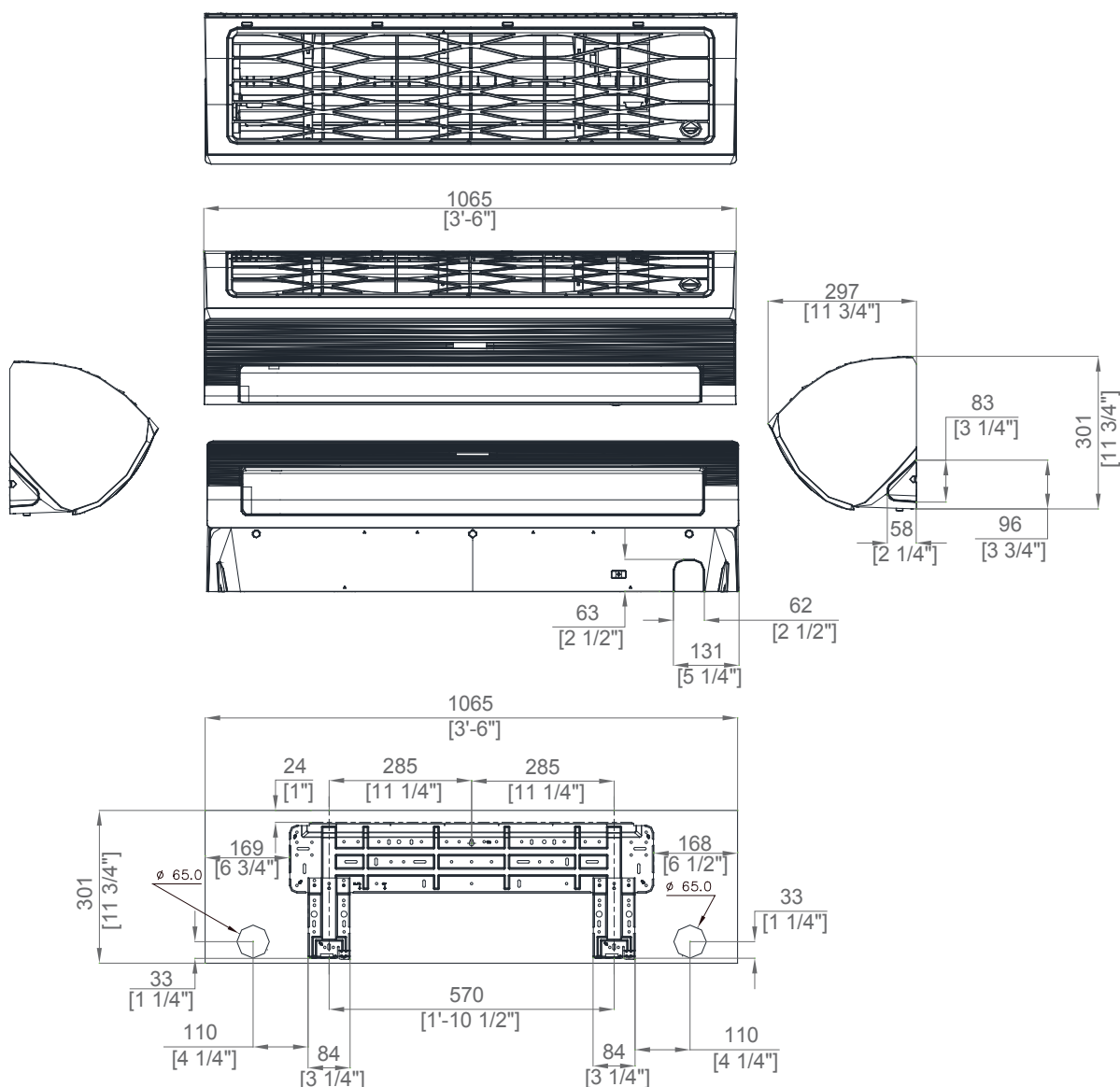
| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 9kBtu       | 12kBtu |
| 1   | Refrigerant gas pipe    | Ø9.52 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 18 Hose     |        |

## 4 Dimensional drawing

### Inverter(HP)

AR18HSFNBWKNEU, AR18JSFNCWKNEU, AR24HSFNBWKNEU, AR24JSFNCWKNEU

Units : mm / inches



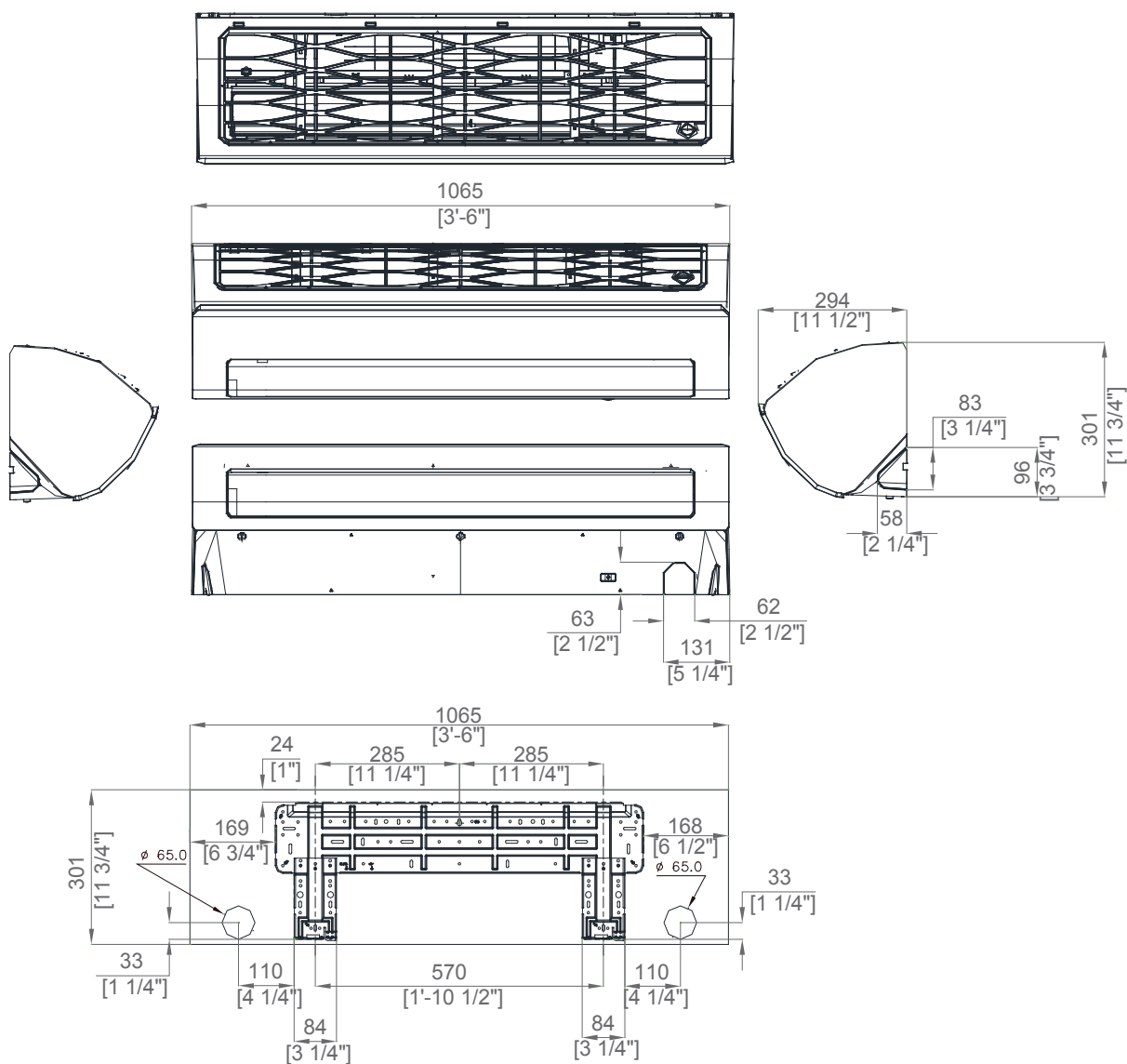
| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 18kBtu      | 24kBtu |
| 1   | Refrigerant gas pipe    | Ø12.7 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 18 Hose     |        |

## 4 Dimensional drawing

### Inverter(HP)

AR18HSFSAWKNEU, AR18JSFSBURNEU, AR24HSFSAWKNEU, AR24JSFSBURNEU

Units : mm / inches



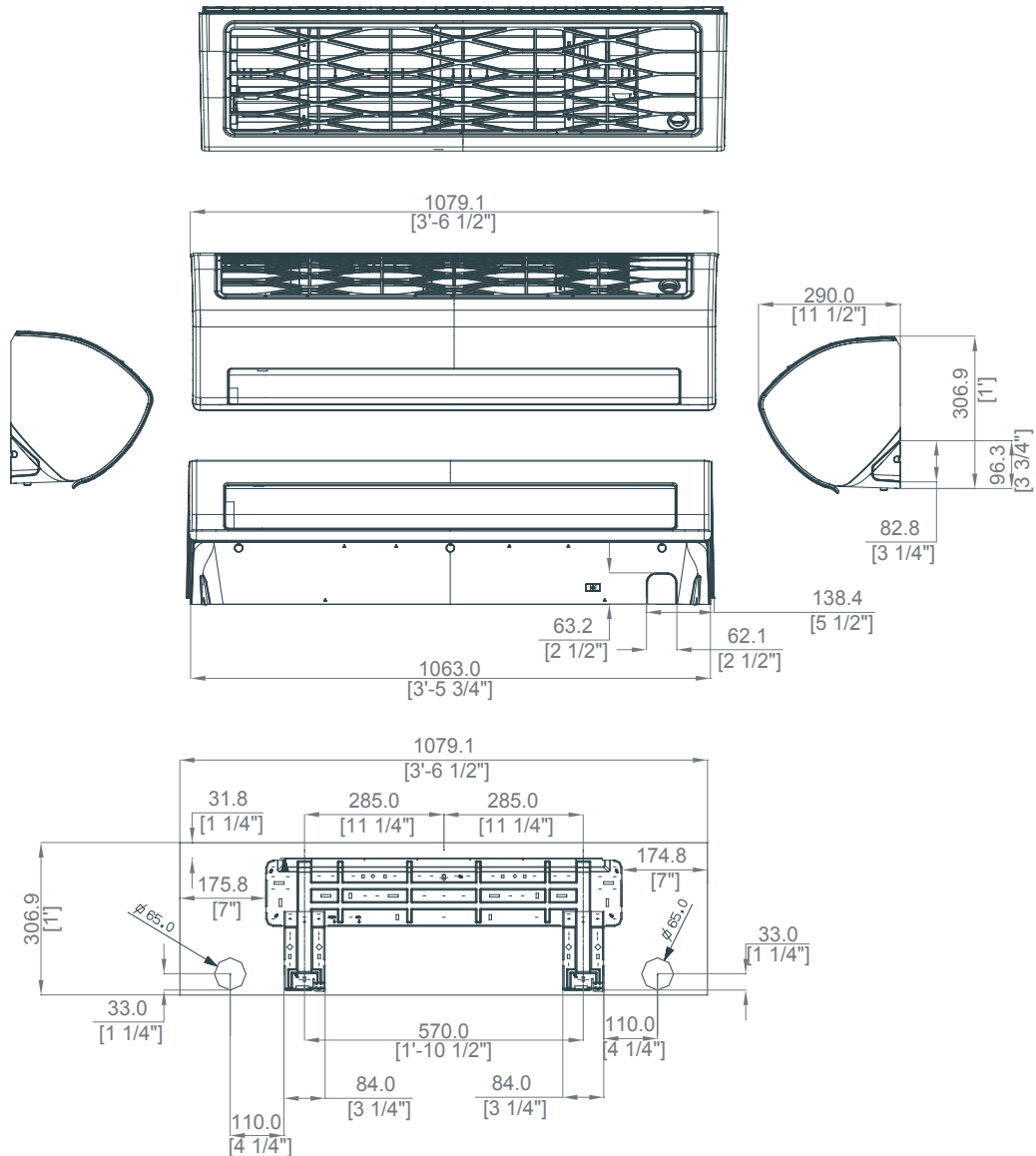
| No. | Name                    | Description       |        |
|-----|-------------------------|-------------------|--------|
|     |                         | 18kBtu            | 24kBtu |
| 1   | Refrigerant gas pipe    | $\phi 12.7$ Flare |        |
| 2   | Refrigerant liquid pipe | $\phi 6.35$ Flare |        |
| 3   | Drain pipe connection   | 18 Hose           |        |

## 4

## Inverter(HP)

AR18HSSDBWKNEU, AR24HSSDBWKNEU

Units : mm / inches

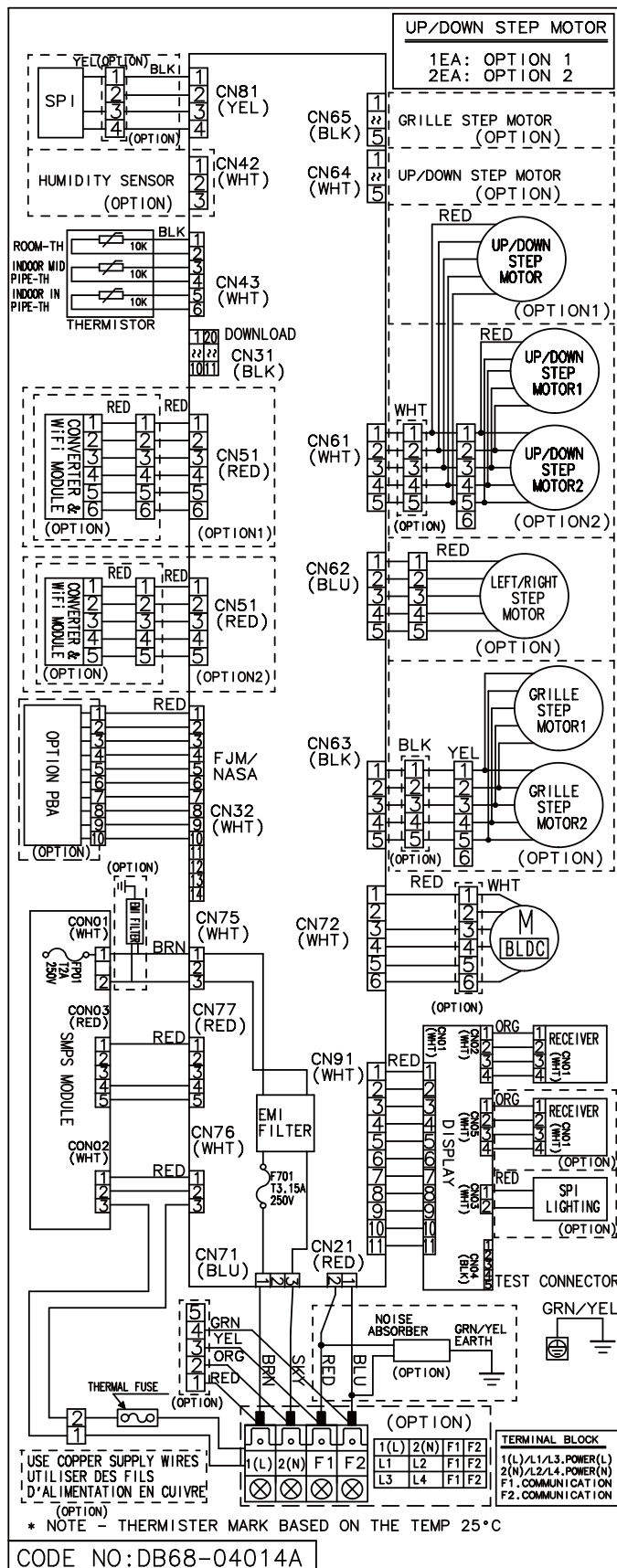


| No. | Name                    | Description |        |
|-----|-------------------------|-------------|--------|
|     |                         | 18kBtu      | 24kBtu |
| 1   | Refrigerant gas pipe    | Ø12.7 Flare |        |
| 2   | Refrigerant liquid pipe | Ø6.35 Flare |        |
| 3   | Drain pipe connection   | 16 Hose     |        |

# 5 Electrical wiring diagram

## Inverter(HP)

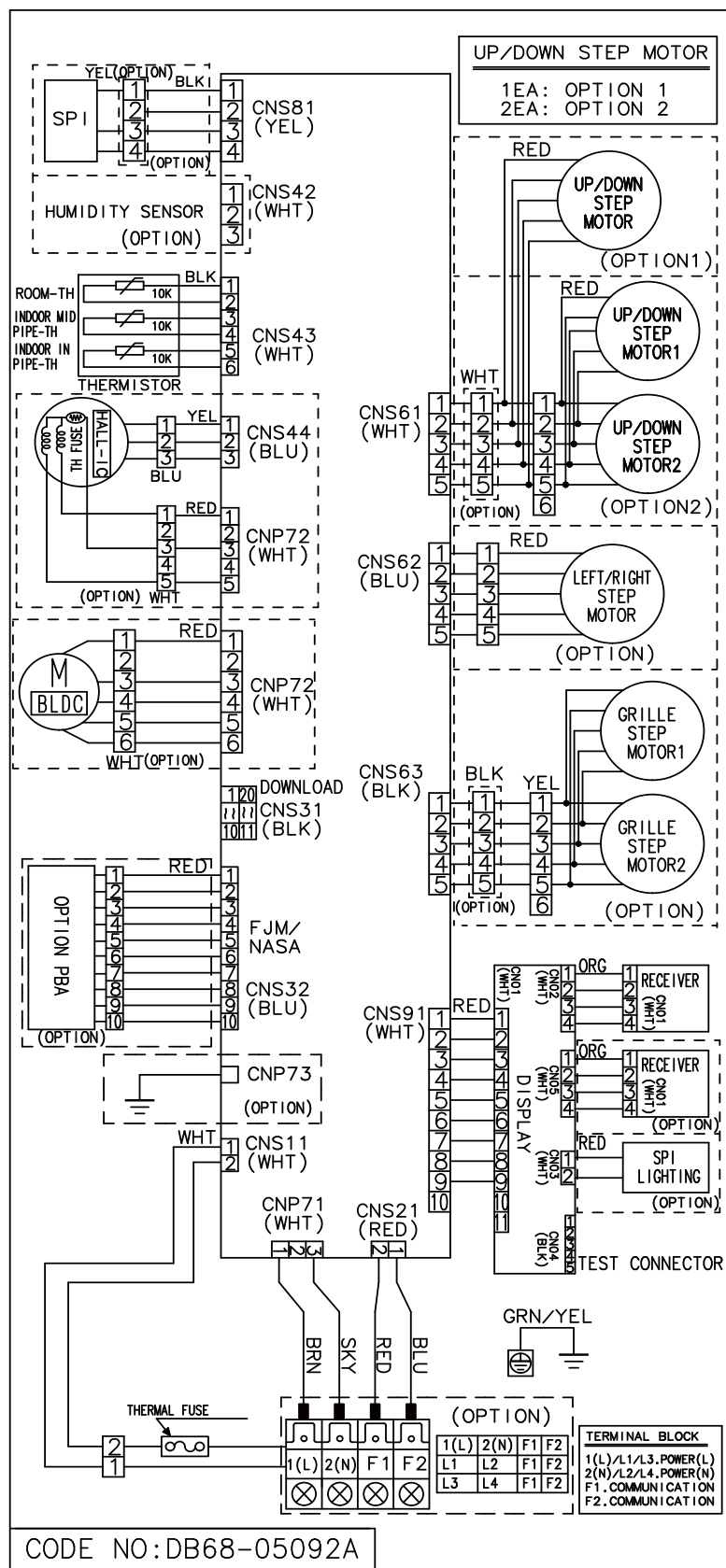
AR09HSFNBWKNET, AR09HSFNMWKNZE, AR09HSFSBWKNET, AR09HSFSBWKNZE, AR09HSSDAWKNEU, AR09HSSDBWKNEU, AR09JSPFAWKNEU  
AR09JSPFBWKNEU, AR12HSFNBWKNET, AR12HSFNMWKNZE, AR12HSFSAWKNET, AR12HSFSAWKNEU, AR12HSSDAWKNEU, AR12HSSDBWKNEU  
AR12JSPFAWKNEU, AR12JSPFBWKNEU, AR18HSFNBWKNET, AR18HSFSAWKNEU, AR18HSSDBWKNEU, AR24HSFNBWKNET, AR24HSFSAWKNEU  
AR24HSSDBWKNEU



# 5 Electrical wiring diagram

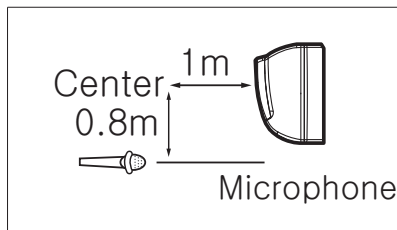
## Inverter(HP)

AR09JSFNCWKNET, AR09JSFNCWKNE, AR09JSFSBURNET, AR12JSFNCWKNET, AR12JSFNCWKNE, AR12JSFSBURNET, AR18JSFNCWKNEU  
AR18JSFSBURNET, AR24JSFNCWKNEU, AR24JSFSBURNET



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

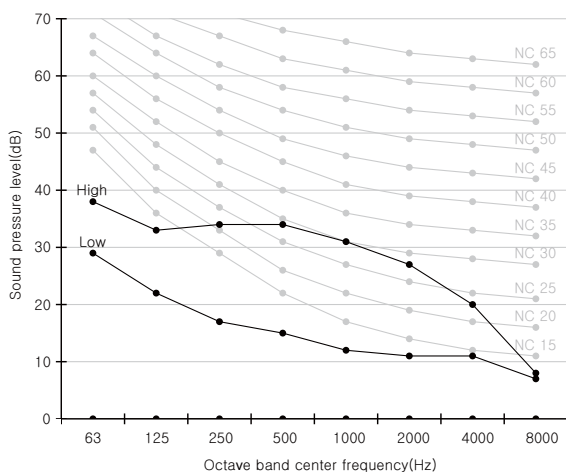
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR09HSFNBWKNET (ODU : AR09HSFNBWKXET) | 36.0 | 19.0 |
| AR09HSFNMWKNZE (ODU : AR09HSFNMWKXZE) | 36.0 | 19.0 |
| AR09HSFSBWKNET (ODU : AR09HSFSBWKXET) | 36.0 | 19.0 |
| AR09HSFSBWKNZE (ODU : AR09HSFSBWKXZE) | 36.0 | 19.0 |

### Note

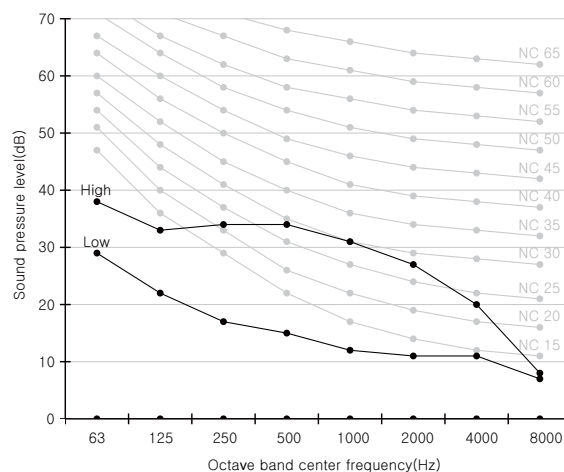
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

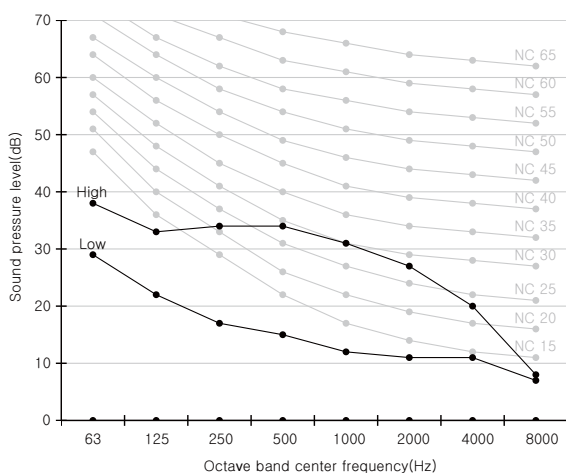
### 1) AR09HSFNBWKNET (ODU : AR09HSFNBWKXET)



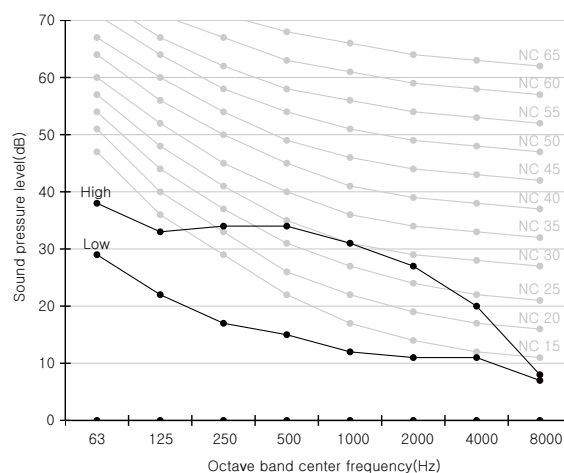
### 2) AR09HSFNMWKNZE (ODU : AR09HSFNMWKXZE)



### 3) AR09HSFSBWKNET (ODU : AR09HSFSBWKXET)

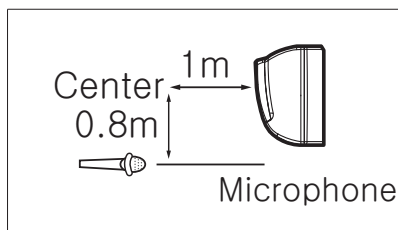


### 4) AR09HSFSBWKNZE (ODU : AR09HSFSBWKXZE)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

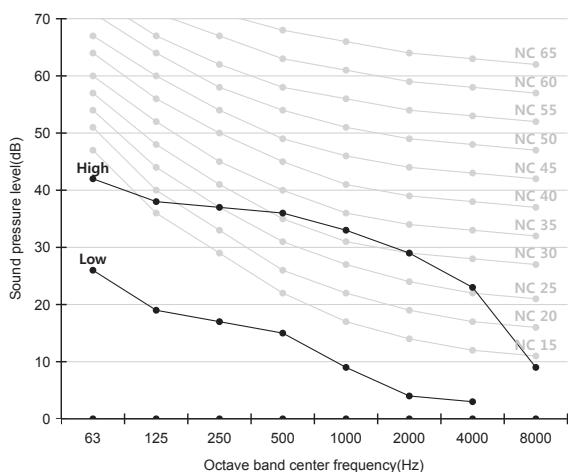
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR09HSSDAWKNEU (ODU : AR09HSSDAWKXEU) | 38.0 | 16.0 |
| AR09HSSDBWKNEU (ODU : AR09HSSDBWKXEU) | 38.0 | 16.0 |
| AR09JSFNCWKNET (ODU : AR09JSFNCWKXET) | 36.0 | 19.0 |
| AR09JSFNCWKNZE (ODU : AR09JSFNCWKXZE) | 36.0 | 19.0 |

### Note

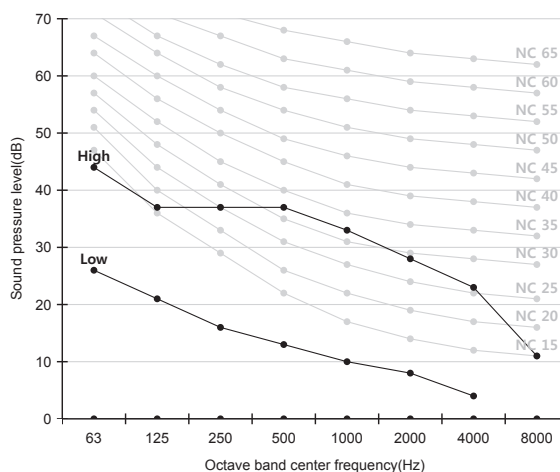
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

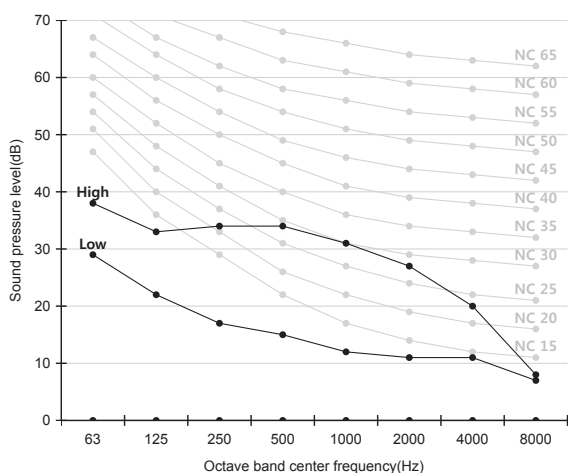
1) AR09HSSDAWKNEU (ODU : AR09HSSDAWKXEU)



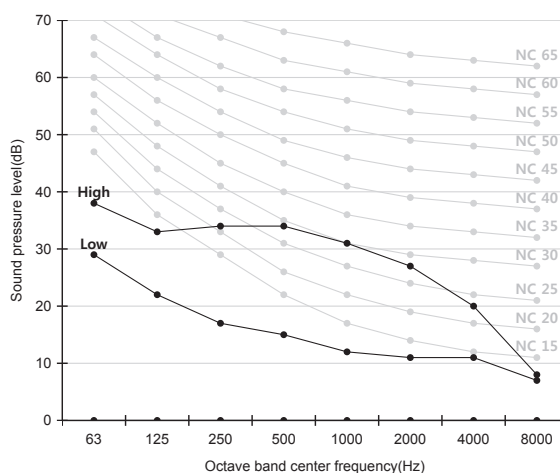
2) AR09HSSDBWKNEU (ODU : AR09HSSDBWKXEU)



3) AR09JSFNCWKNET (ODU : AR09JSFNCWKXET)

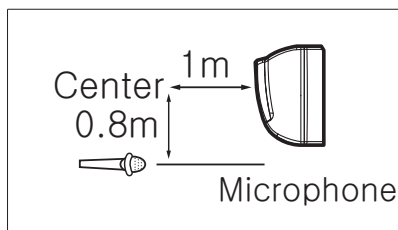


4) AR09JSFNCWKNZE (ODU : AR09JSFNCWKXZE)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

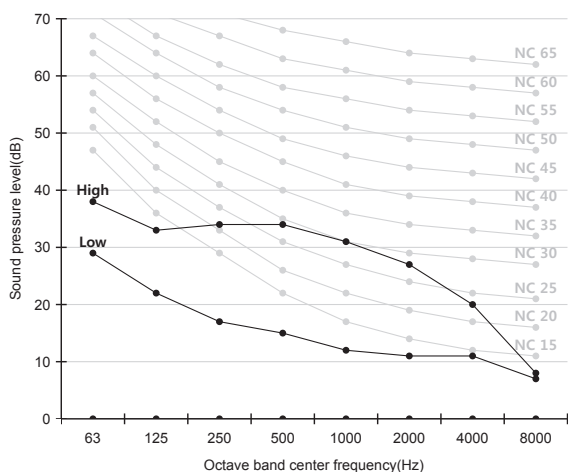
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR09JSFSBURNET (ODU : AR09JSFSBURXET) | 36.0 | 19.0 |
| AR09JSPFAWKNEU (ODU : AR09JSPFAWKXEU) | 38.0 | 16.0 |
| AR09JSPFBWKNEU (ODU : AR09JSPFBWKXEU) | 38.0 | 16.0 |
| AR12HSFNBWKNET (ODU : AR12HSFNBWKXET) | 37.0 | 19.0 |

### Note

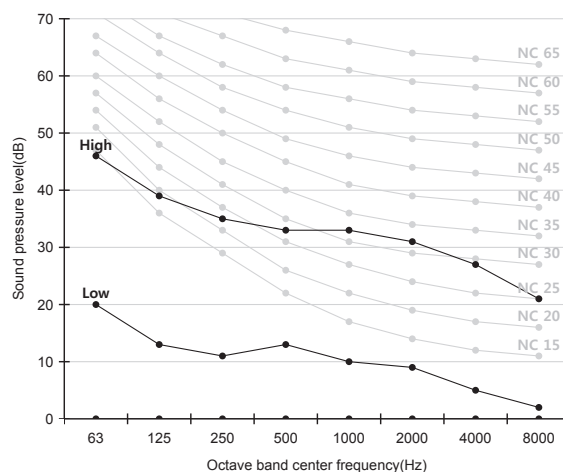
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

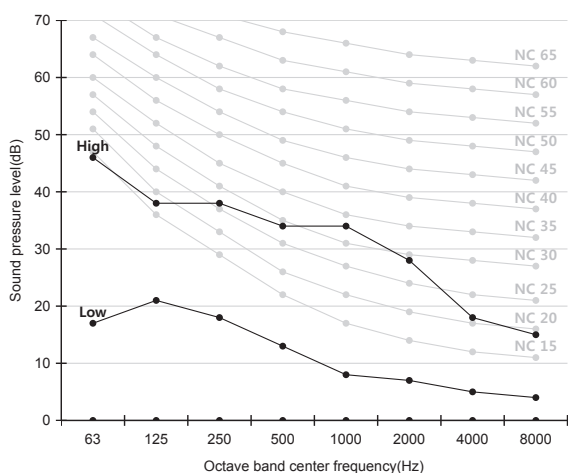
### 1) AR09JSFSBURNET (ODU : AR09JSFSBURXET)



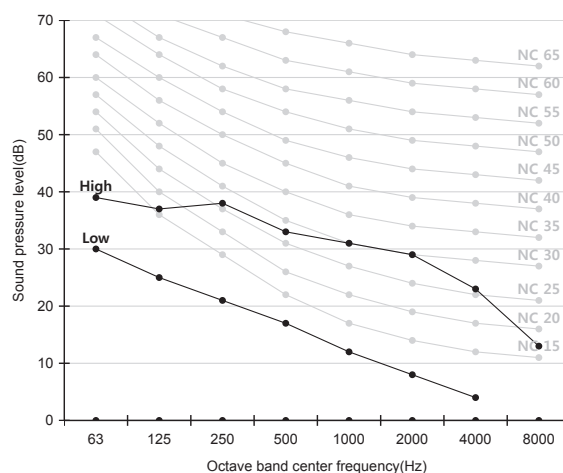
### 2) AR09JSPFAWKNEU (ODU : AR09JSPFAWKXEU)



### 3) AR09JSPFBWKNEU (ODU : AR09JSPFBWKXEU)

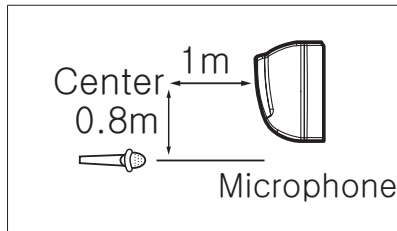


### 4) AR12HSFNBWKNET (ODU : AR12HSFNBWKXET)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

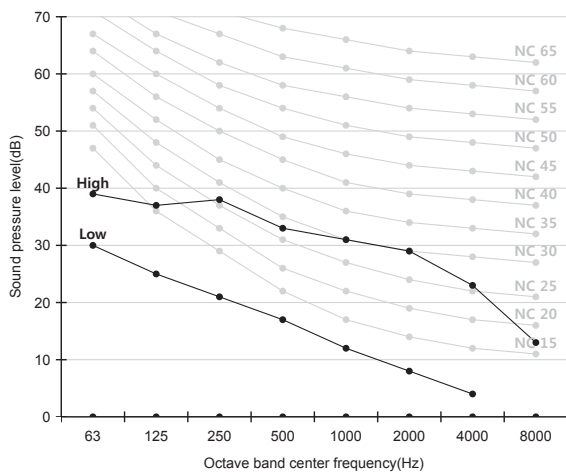
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR12HSFNMWKNZE (ODU : AR12HSFNMWKXZE) | 37.0 | 19.0 |
| AR12HSFSAWKNET (ODU : AR12HSFSAWKXET) | 37.0 | 19.0 |
| AR12HSFSAWKNZE (ODU : AR12HSFSAWKXZE) | 37.0 | 19.0 |
| AR12HSSDAWKNEU (ODU : AR12HSSDAWKXEU) | 40.0 | 16.0 |

### Note

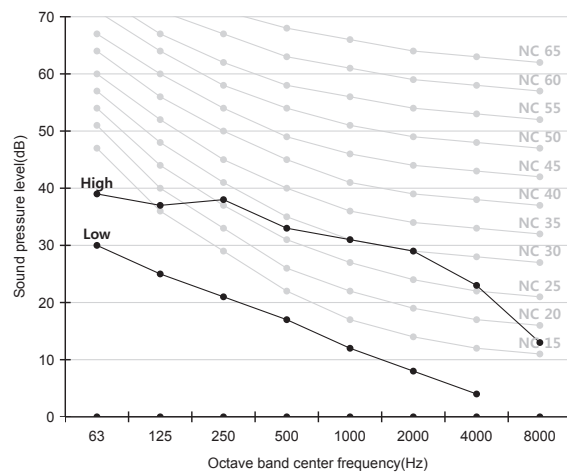
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

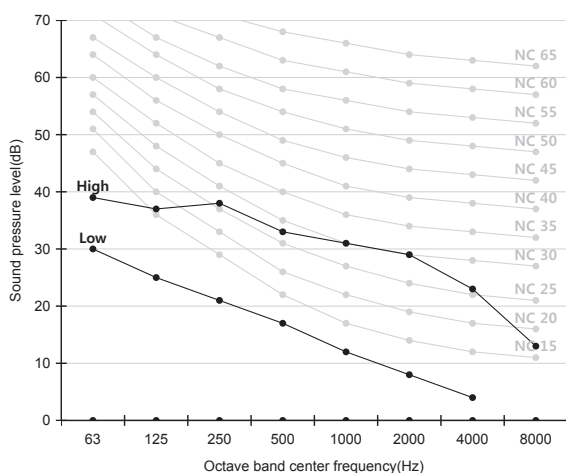
### 1) AR12HSFNMWKNZE (ODU : AR12HSFNMWKXZE)



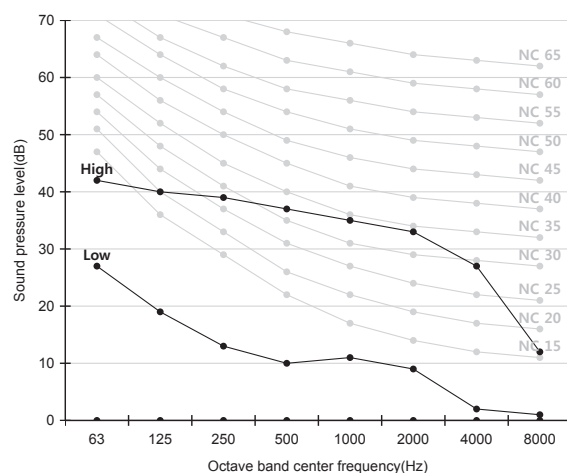
### 2) AR12HSFSAWKNET (ODU : AR12HSFSAWKXET)



### 3) AR12HSFSAWKNZE (ODU : AR12HSFSAWKXZE)

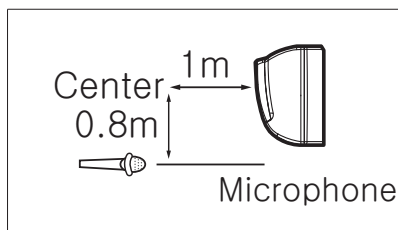


### 4) AR12HSSDAWKNEU (ODU : AR12HSSDAWKXEU)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

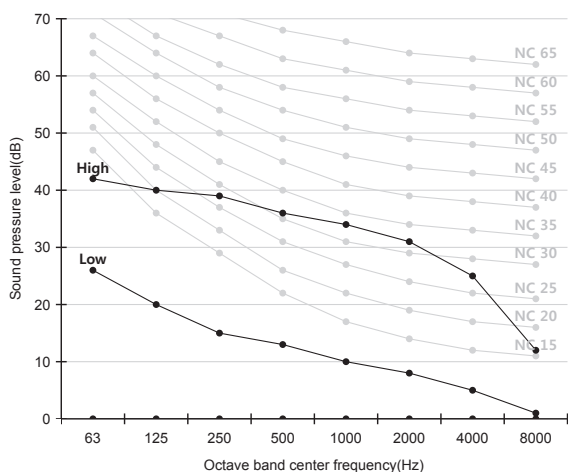
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR12HSSDBWKNEU (ODU : AR12HSSDBWKXEU) | 39.0 | 16.0 |
| AR12JSFNCWKNET (ODU : AR12JSFNCWKXET) | 39.0 | 19.0 |
| AR12JSFNCWKXZE (ODU : AR12JSFNCWKXZE) | 39.0 | 19.0 |
| AR12JSFSBURNET (ODU : AR12JSFSBURXET) | 39.0 | 19.0 |

### Note

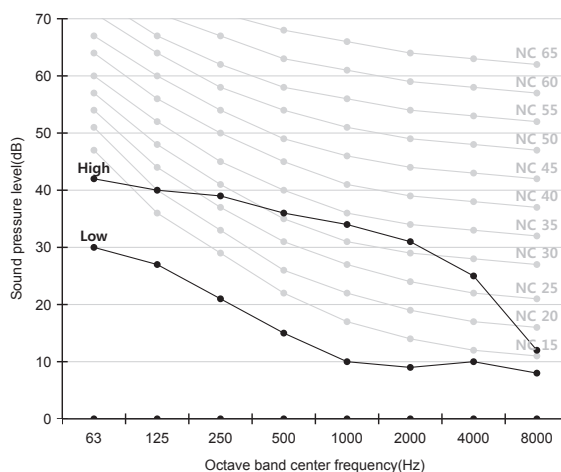
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

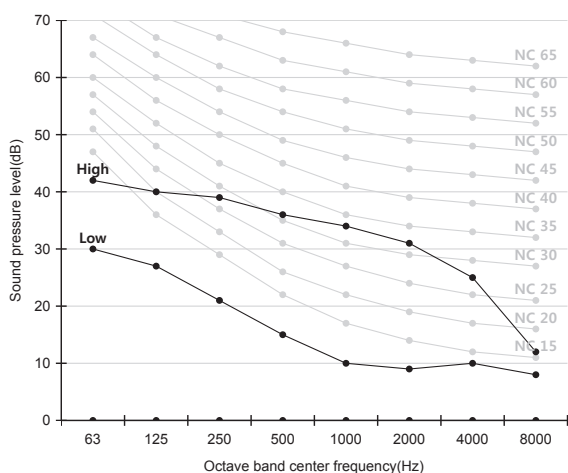
### 1) AR12HSSDBWKNEU (ODU : AR12HSSDBWKXEU)



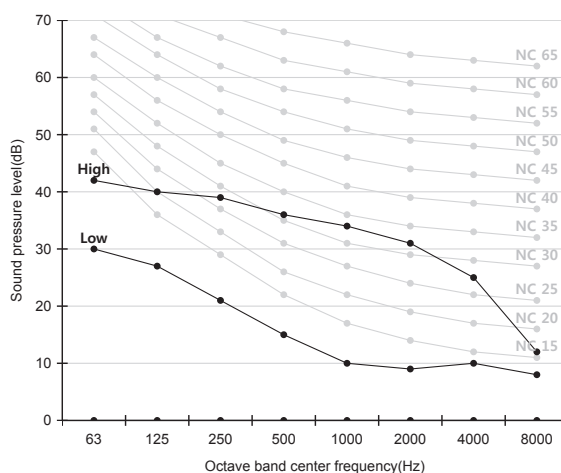
### 2) AR12JSFNCWKNET (ODU : AR12JSFNCWKXET)



### 3) AR12JSFNCWKXZE (ODU : AR12JSFNCWKXZE)

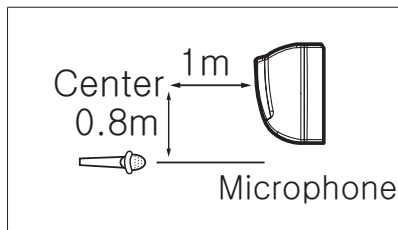


### 4) AR12JSFSBURNET (ODU : AR12JSFSBURXET)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

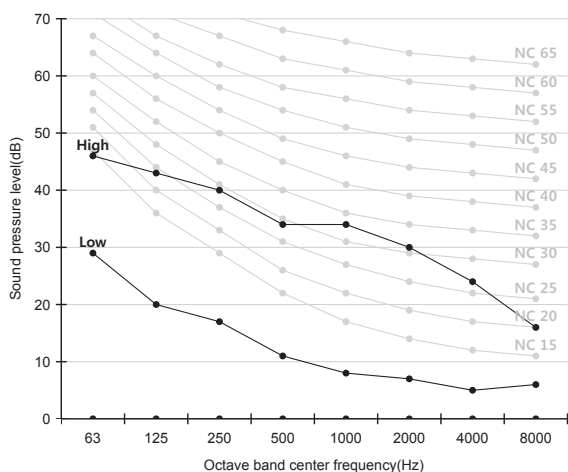
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR12JSPFAWKNEU (ODU : AR12JSPFAWKXEU) | 39.0 | 16.0 |
| AR12JSPFBWKNEU (ODU : AR12JSPFBWKXEU) | 40.0 | 16.0 |
| AR18HSFNBWKNEU (ODU : AR18HSFNBWKXEU) | 41.0 | 25.0 |
| AR18HSFSAWKNEU (ODU : AR18HSFSAWKXEU) | 41.0 | 25.0 |

### Note

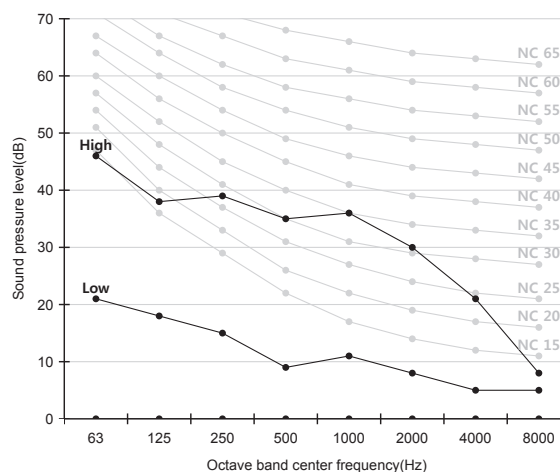
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

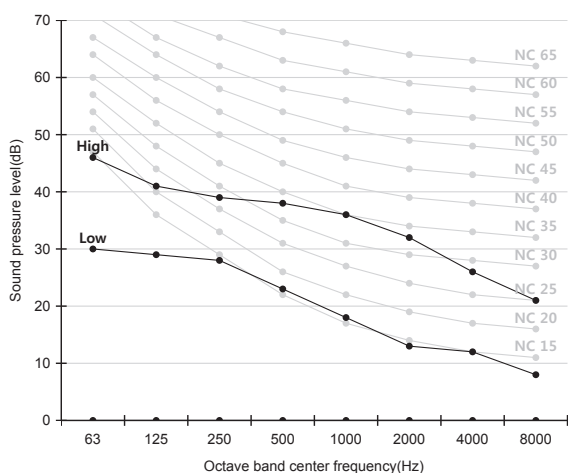
1) AR12JSPFAWKNEU (ODU : AR12JSPFAWKXEU)



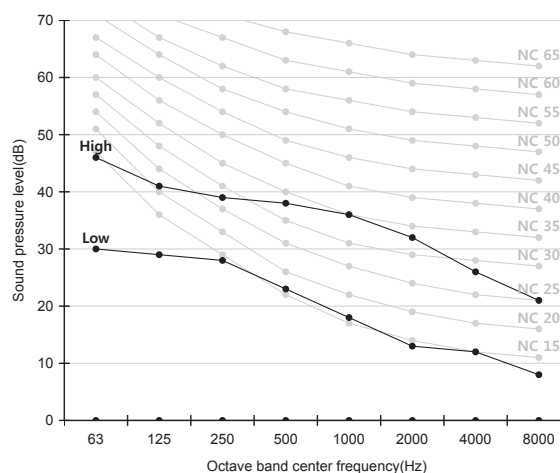
2) AR12JSPFBWKNEU (ODU : AR12JSPFBWKXEU)



3) AR18HSFNBWKNEU (ODU : AR18HSFNBWKXEU)

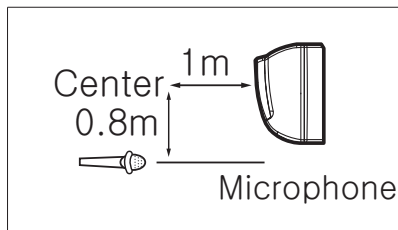


4) AR18HSFSAWKNEU (ODU : AR18HSFSAWKXEU)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

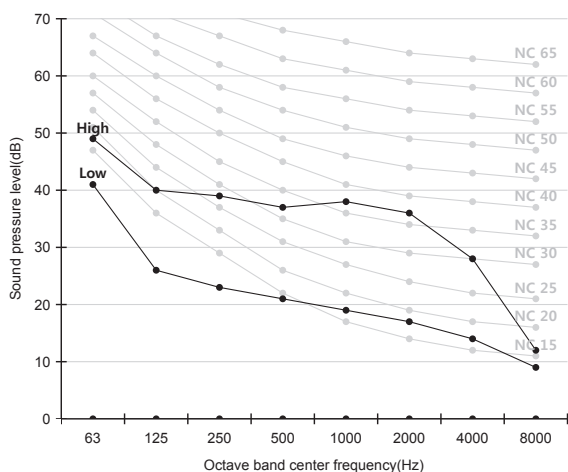
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR18HSSDBWKNEU (ODU : AR18HSSDBWKXEU) | 42.0 | 25.0 |
| AR18JSFNCWKNEU (ODU : AR18JSFNCWKXEU) | 41.0 | 25.0 |
| AR18JSFSBURNEU (ODU : AR18JSFSBURXEU) | 41.0 | 25.0 |
| AR24HSFNBWKNEU (ODU : AR24HSFNBWKXEU) | 43.0 | 26.0 |

### Note

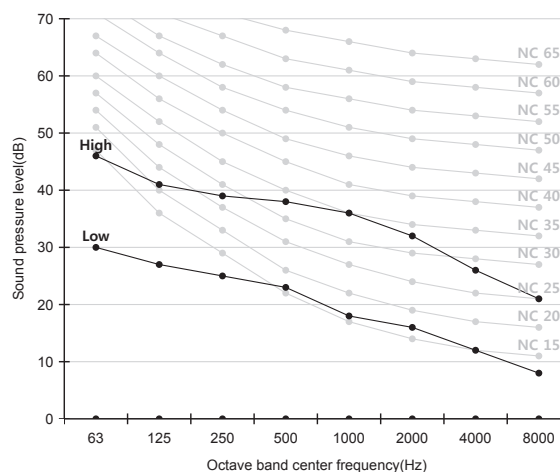
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

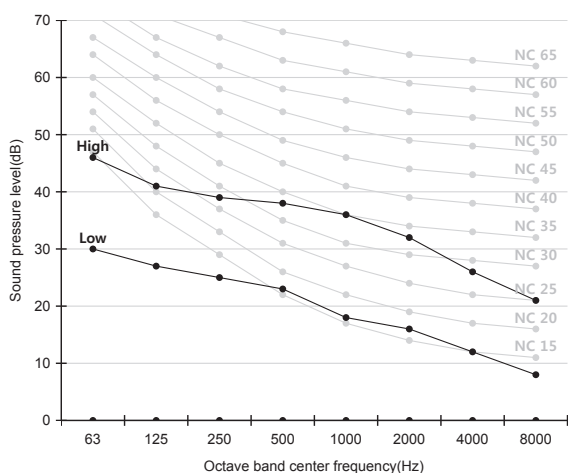
1) AR18HSSDBWKNEU (ODU : AR18HSSDBWKXEU)



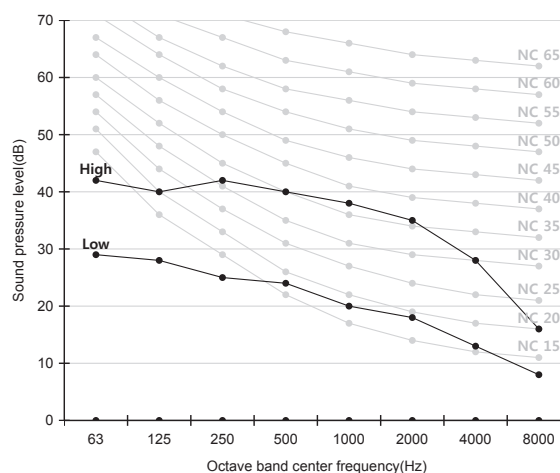
2) AR18JSFNCWKNEU (ODU : AR18JSFNCWKXEU)



3) AR18JSFSBURNEU (ODU : AR18JSFSBURXEU)

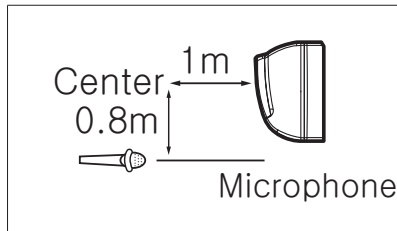


4) AR24HSFNBWKNEU (ODU : AR24HSFNBWKXEU)



# 6 Sound pressure level

## Inverter(HP)



Unit: dB(A)

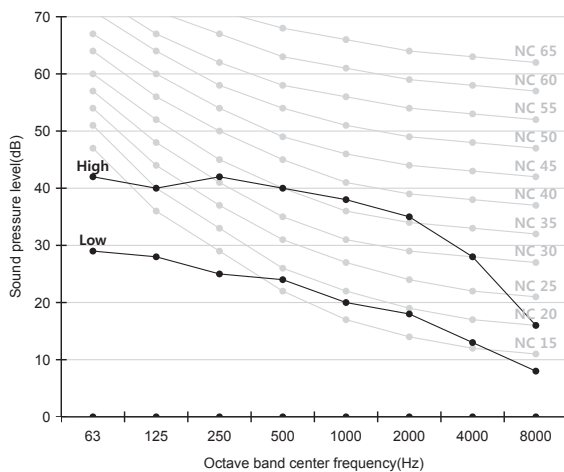
| Model                                 | High | Low  |
|---------------------------------------|------|------|
| AR24HSFSAWKNEU (ODU : AR24HSFSAWKXEU) | 43.0 | 26.0 |
| AR24HSSDBWKNEU (ODU : AR24HSSDBWKXEU) | 43.0 | 26.0 |
| AR24JSFNCWKNEU (ODU : AR24JSFNCWKXEU) | 43.0 | 26.0 |
| AR24JSFSBURNEU (ODU : AR24JSFSBURXEU) | 43.0 | 26.0 |

### Note

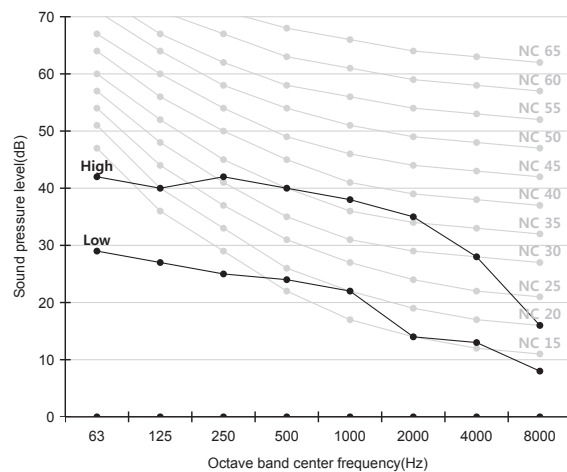
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

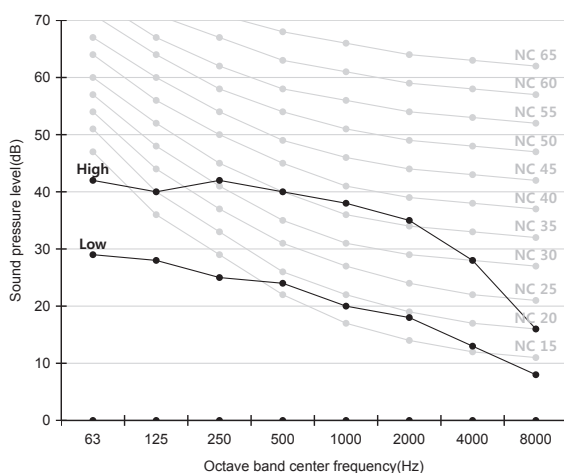
### 1) AR24HSFSAWKNEU (ODU : AR24HSFSAWKXEU)



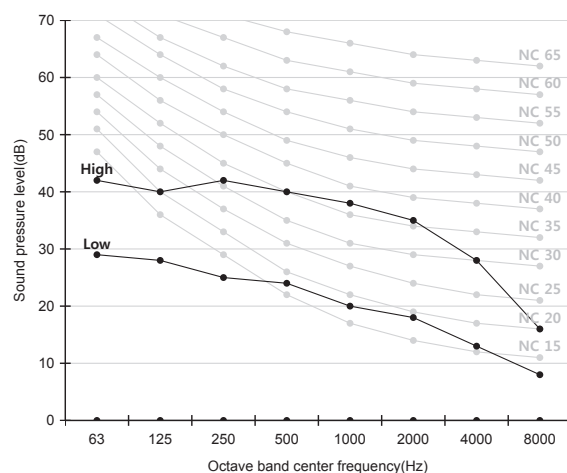
### 2) AR24HSSDBWKNEU (ODU : AR24HSSDBWKXEU)



### 3) AR24JSFNCWKNEU (ODU : AR24JSFNCWKXEU)



### 4) AR24JSFSBURNEU (ODU : AR24JSFSBURXEU)



# 7 Sound power level

## Inverter(HP)

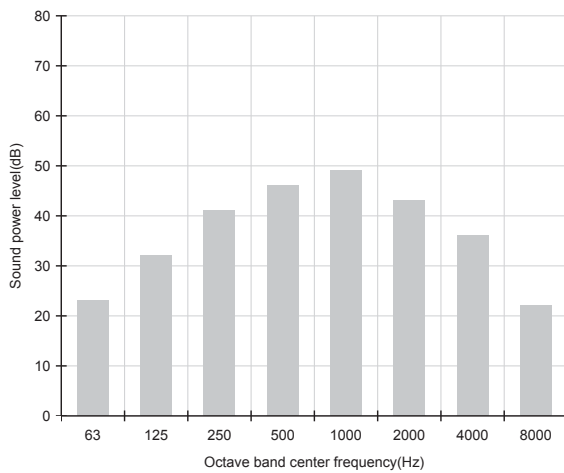
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

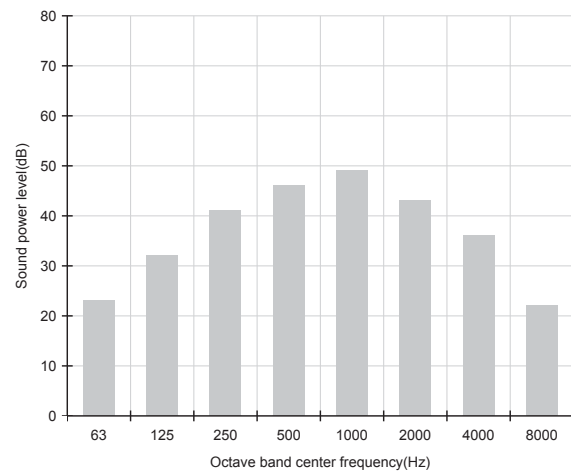
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR09HSFNBWKNET (ODU : AR09HSFNBWKXET) | 54.0  |
| AR09HSFNMWKNZE (ODU : AR09HSFNMWKXZE) | 54.0  |
| AR09HSFSBWKNET (ODU : AR09HSFSBWKXET) | 54.0  |
| AR09HSFSBWKNZE (ODU : AR09HSFSBWKXZE) | 54.0  |

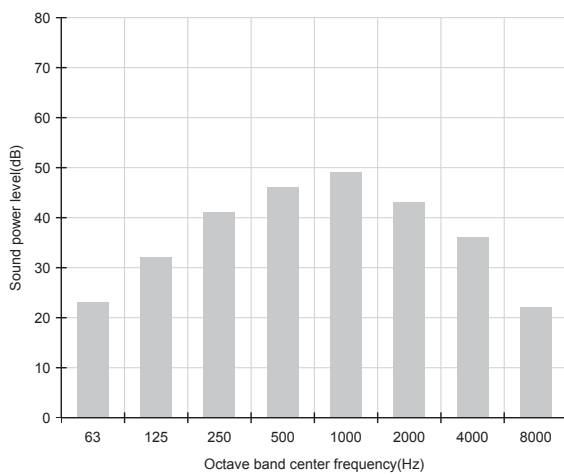
1) AR09HSFNBWKNET (ODU : AR09HSFNBWKXET)



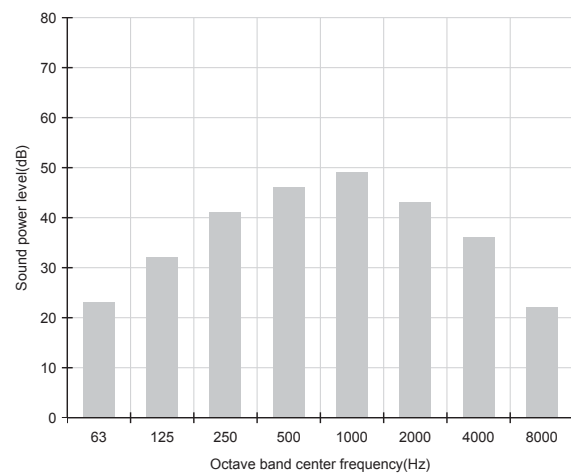
2) AR09HSFNMWKNZE (ODU : AR09HSFNMWKXZE)



3) AR09HSFSBWKNET (ODU : AR09HSFSBWKXET)



4) AR09HSFSBWKNZE (ODU : AR09HSFSBWKXZE)



# 7 Sound power level

## Inverter(HP)

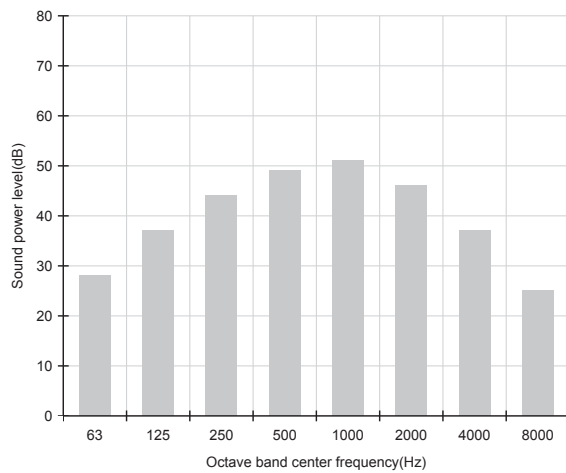
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

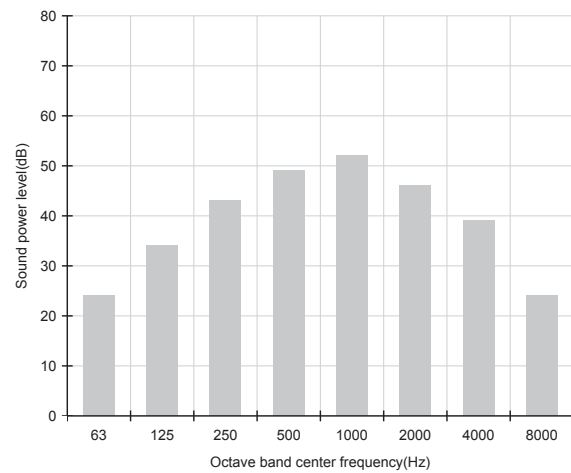
Unit: dB(A)

| Model                                  | Power |
|----------------------------------------|-------|
| AR09HSSDAWKNEU (ODU : AR09HSSDAWKXEU)  | 56.0  |
| AR09HSSDBWKNEU (ODU : AR09HSSDBWKXEU)  | 54.0  |
| AR09JSFNCWKNET (ODU : AR09JSFNCWKXET)  | 56.0  |
| AR09JSFNCWKENZE (ODU : AR09JSFNCWKXZE) | 56.0  |

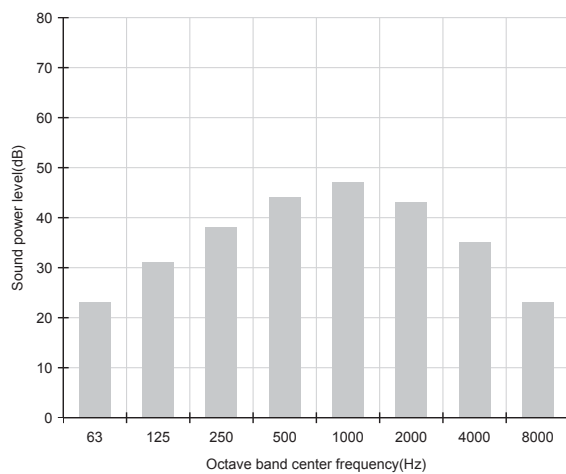
1) AR09HSSDAWKNEU (ODU : AR09HSSDAWKXEU)



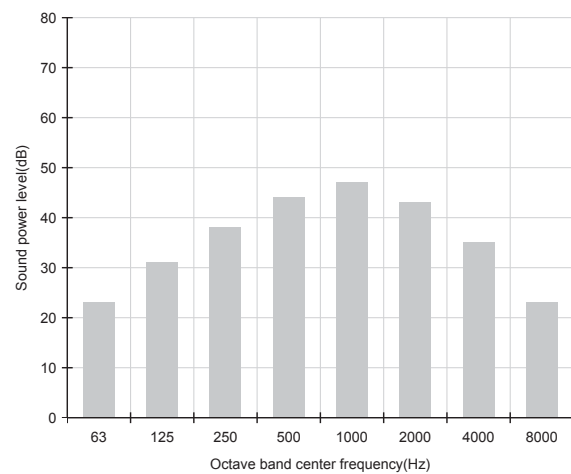
2) AR09HSSDBWKNEU (ODU : AR09HSSDBWKXEU)



3) AR09JSFNCWKNET (ODU : AR09JSFNCWKXET)



4) AR09JSFNCWKENZE (ODU : AR09JSFNCWKXZE)



# 7 Sound power level

## Inverter(HP)

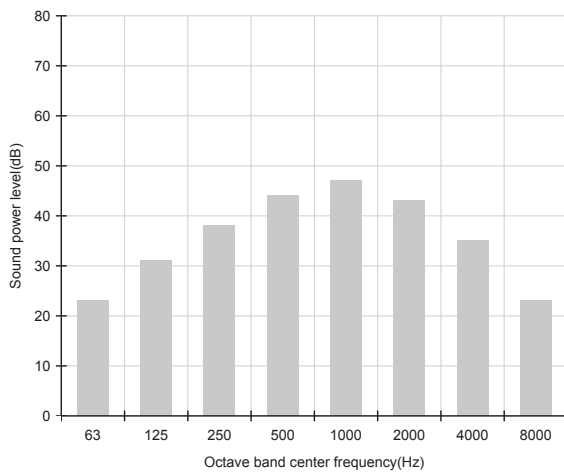
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

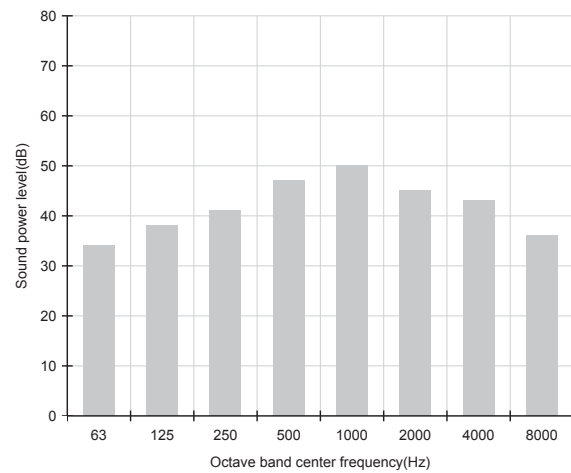
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR09JSFSBURNET (ODU : AR09JSFSBURXET) | 56.0  |
| AR09JSPFAWKNEU (ODU : AR09JSPFAWKXEU) | 56.0  |
| AR09JSPFBWKNEU (ODU : AR09JSPFBWKXEU) | 57.0  |
| AR12HSFNBWKNET (ODU : AR12HSFNBWKXET) | 56.0  |

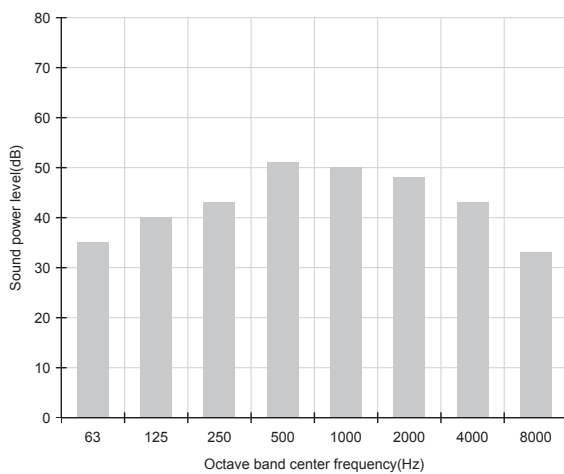
### 1) AR09JSFSBURNET (ODU : AR09JSFSBURXET)



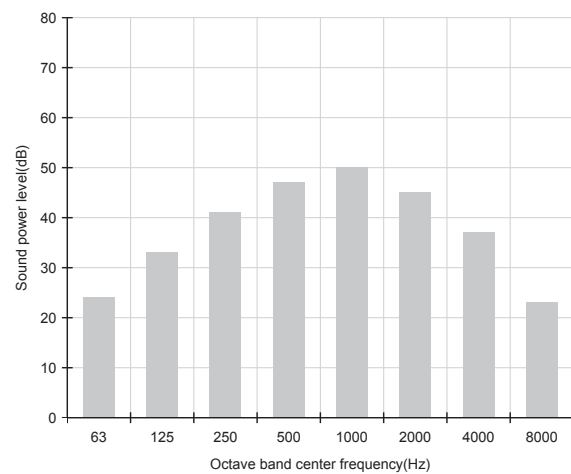
### 2) AR09JSPFAWKNEU (ODU : AR09JSPFAWKXEU)



### 3) AR09JSPFBWKNEU (ODU : AR09JSPFBWKXEU)



### 4) AR12HSFNBWKNET (ODU : AR12HSFNBWKXET)



# 7 Sound power level

## Inverter(HP)

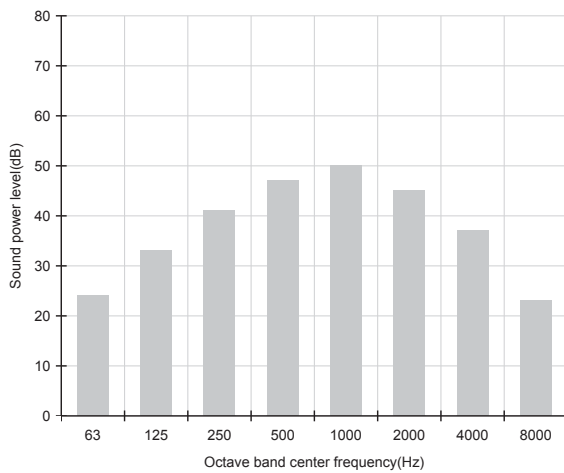
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

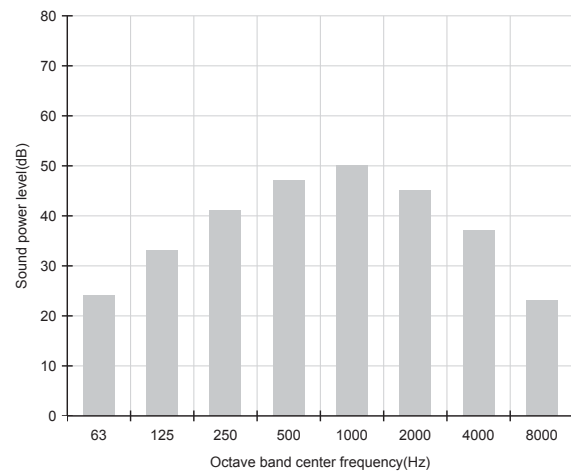
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR12HSFNMWKNZE (ODU : AR12HSFNMWKXZE) | 56.0  |
| AR12HSFSAWKNET (ODU : AR12HSFSAWKXET) | 56.0  |
| AR12HSFSAWKNZE (ODU : AR12HSFSAWKXZE) | 56.0  |
| AR12HSSDAWKNEU (ODU : AR12HSSDAWKXEU) | 58.0  |

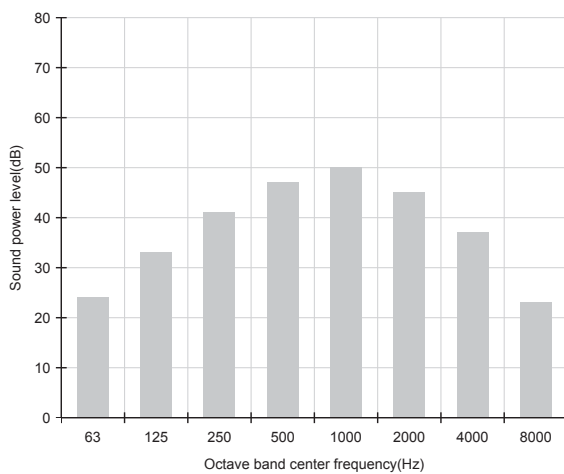
1) AR12HSFNMWKNZE (ODU : AR12HSFNMWKXZE)



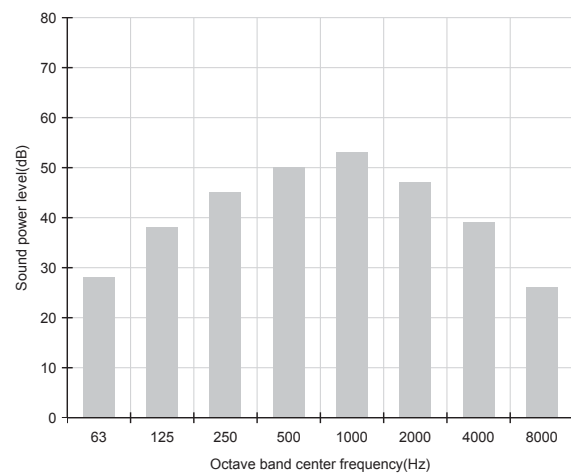
2) AR12HSFSAWKNET (ODU : AR12HSFSAWKXET)



3) AR12HSFSAWKNZE (ODU : AR12HSFSAWKXZE)



4) AR12HSSDAWKNEU (ODU : AR12HSSDAWKXEU)



# 7 Sound power level

## Inverter(HP)

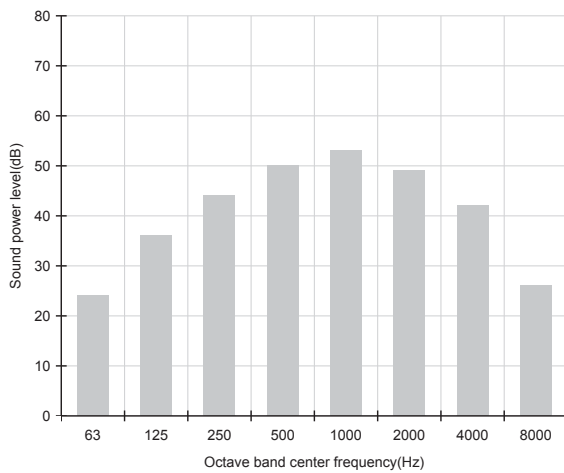
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

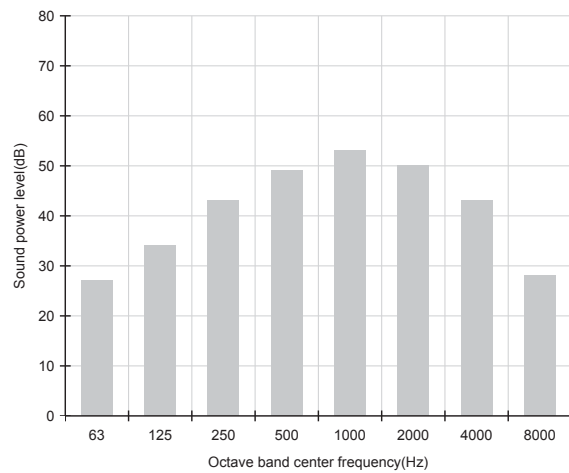
Unit: dB(A)

| Model                                  | Power |
|----------------------------------------|-------|
| AR12HSSDBWKNEU (ODU : AR12HSSDBWKXEU)  | 58.0  |
| AR12JSFNCWKNET (ODU : AR12JSFNCWKXET)  | 58.0  |
| AR12JSFNCWKENZE (ODU : AR12JSFNCWKXZE) | 58.0  |
| AR12JSFSBURNET (ODU : AR12JSFSBURXET)  | 58.0  |

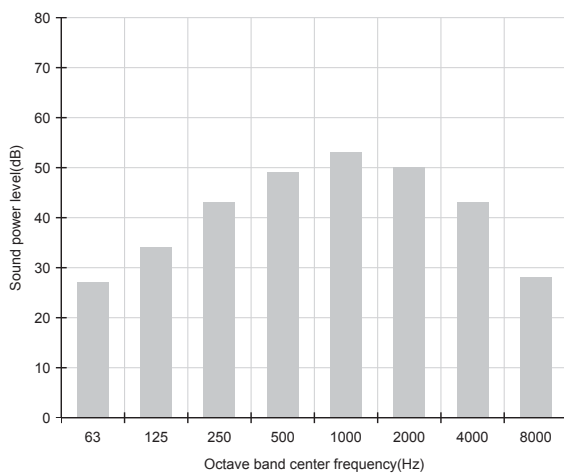
1) AR12HSSDBWKNEU (ODU : AR12HSSDBWKXEU)



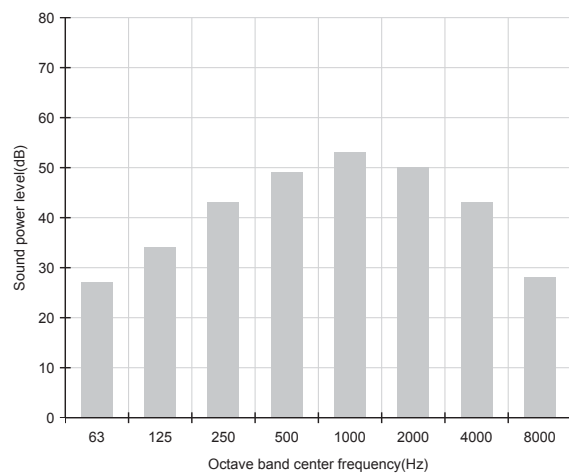
2) AR12JSFNCWKNET (ODU : AR12JSFNCWKXET)



3) AR12JSFNCWKENZE (ODU : AR12JSFNCWKXZE)



4) AR12JSFSBURNET (ODU : AR12JSFSBURXET)



# 7 Sound power level

## Inverter(HP)

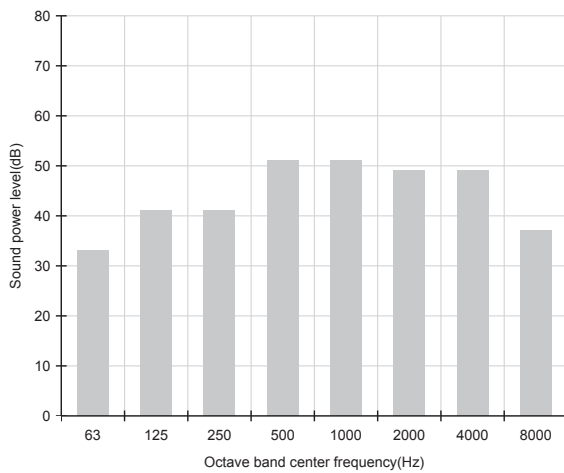
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

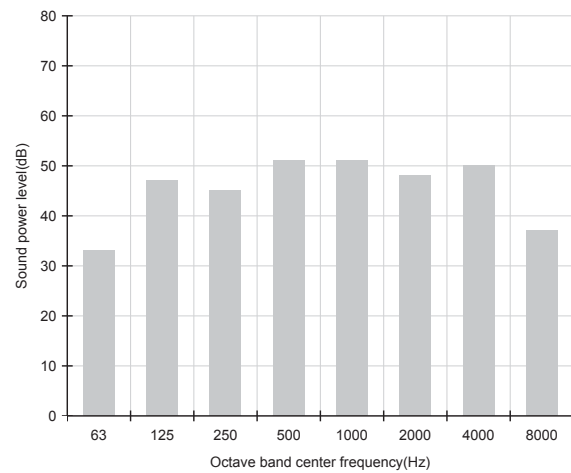
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR12JSPFAWKNEU (ODU : AR12JSPFAWKXEU) | 58.0  |
| AR12JSPFBWKNEU (ODU : AR12JSPFBWKXEU) | 59.0  |
| AR18HSFNBWKNEU (ODU : AR18HSFNBWKXEU) | 58.0  |
| AR18HSFSAWKNEU (ODU : AR18HSFSAWKXEU) | 58.0  |

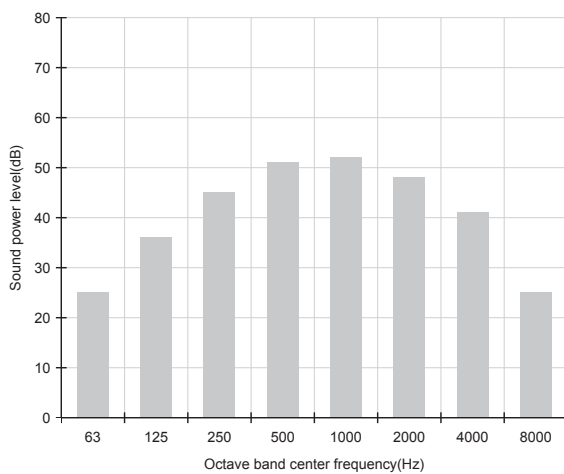
### 1) AR12JSPFAWKNEU (ODU : AR12JSPFAWKXEU)



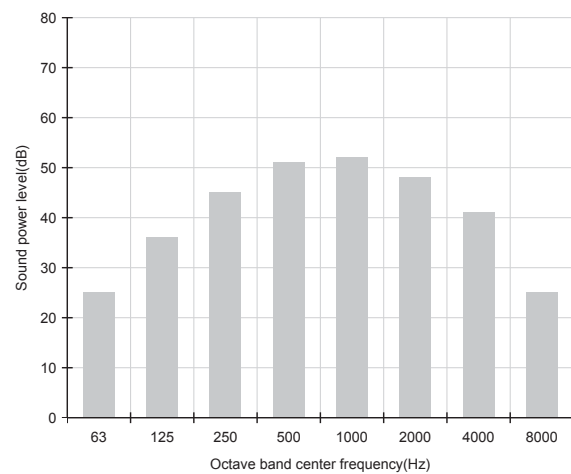
### 2) AR12JSPFBWKNEU (ODU : AR12JSPFBWKXEU)



### 3) AR18HSFNBWKNEU (ODU : AR18HSFNBWKXEU)



### 4) AR18HSFSAWKNEU (ODU : AR18HSFSAWKXEU)



# 7 Sound power level

## Inverter(HP)

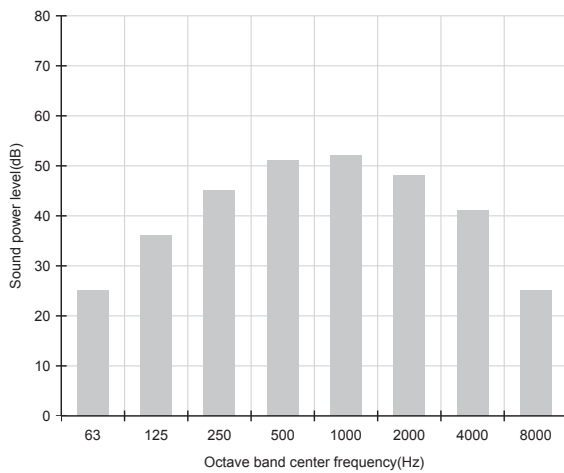
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

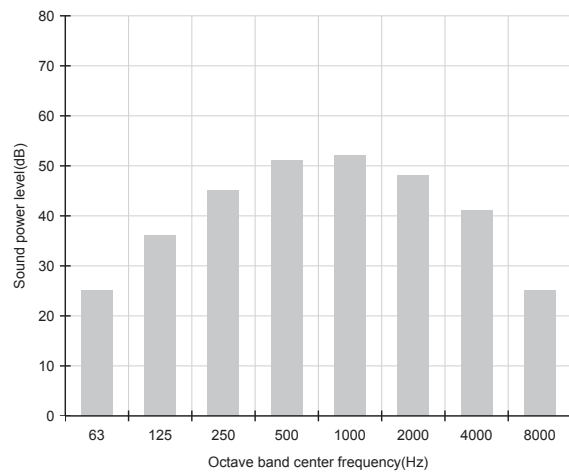
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR18HSSDBWKNEU (ODU : AR18HSSDBWKXEU) | 58.0  |
| AR18JSFNCWKNEU (ODU : AR18JSFNCWKXEU) | 58.0  |
| AR18JSFSBURNEU (ODU : AR18JSFSBURXEU) | 58.0  |
| AR24HSFNBWKNEU (ODU : AR24HSFNBWKXEU) | 62.0  |

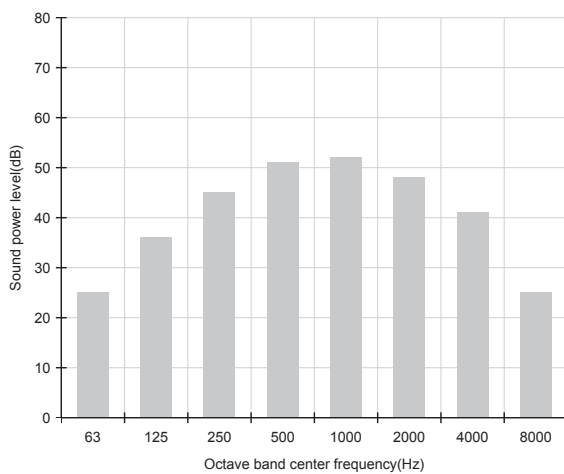
1) AR18HSSDBWKNEU (ODU : AR18HSSDBWKXEU)



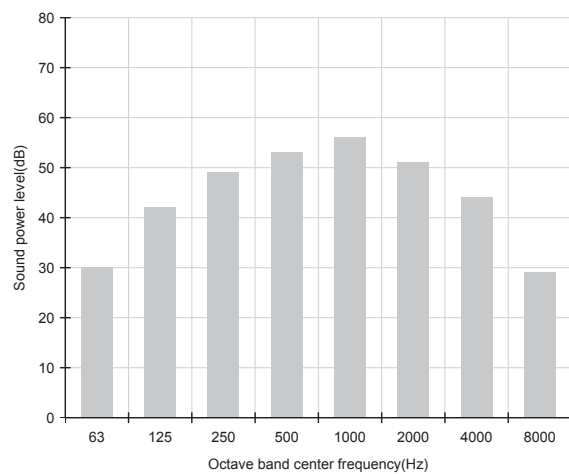
2) AR18JSFNCWKNEU (ODU : AR18JSFNCWKXEU)



3) AR18JSFSBURNEU (ODU : AR18JSFSBURXEU)



4) AR24HSFNBWKNEU (ODU : AR24HSFNBWKXEU)



# 7 Sound power level

## Inverter(HP)

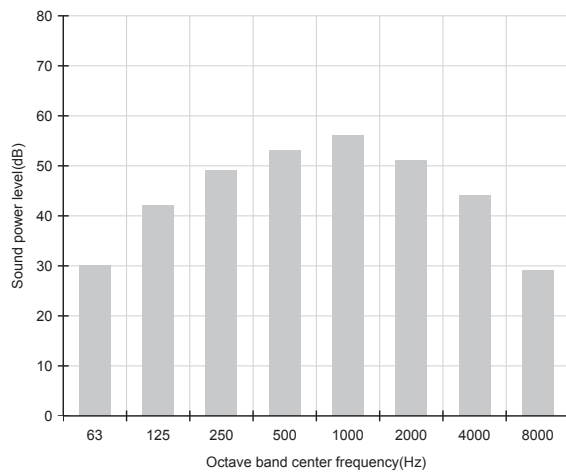
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

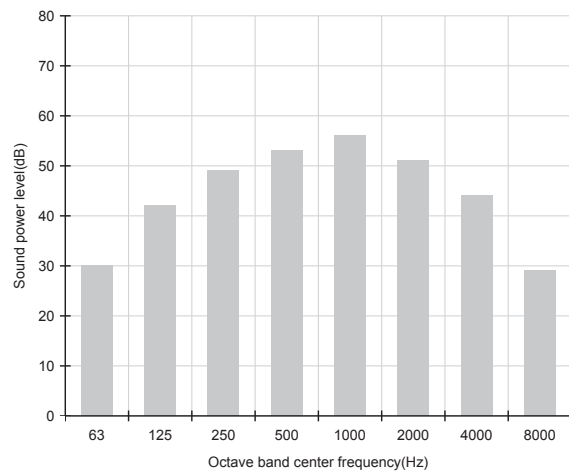
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR24HSFSAWKNEU (ODU : AR24HSFSAWKXEU) | 62.0  |
| AR24HSSDBWKNEU (ODU : AR24HSSDBWKXEU) | 62.0  |
| AR24JSFNCWKNEU (ODU : AR24JSFNCWKXEU) | 62.0  |
| AR24JSFSBURNEU (ODU : AR24JSFSBURXEU) | 62.0  |

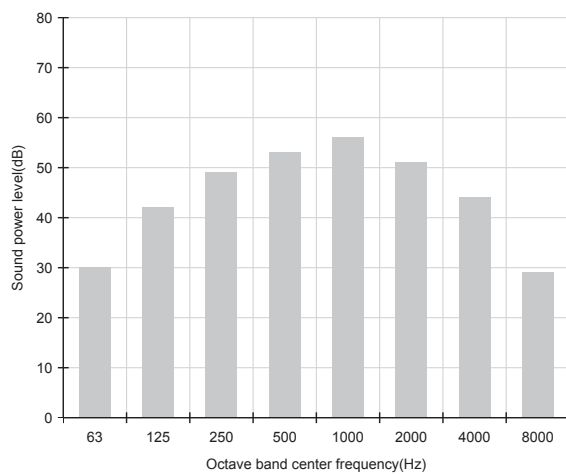
### 1) AR24HSFSAWKNEU (ODU : AR24HSFSAWKXEU)



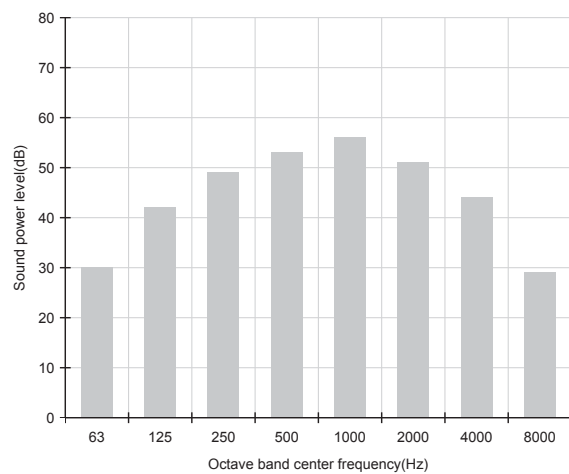
### 2) AR24HSSDBWKNEU (ODU : AR24HSSDBWKXEU)



### 3) AR24JSFNCWKNEU (ODU : AR24JSFNCWKXEU)



### 4) AR24JSFSBURNEU (ODU : AR24JSFSBURXEU)

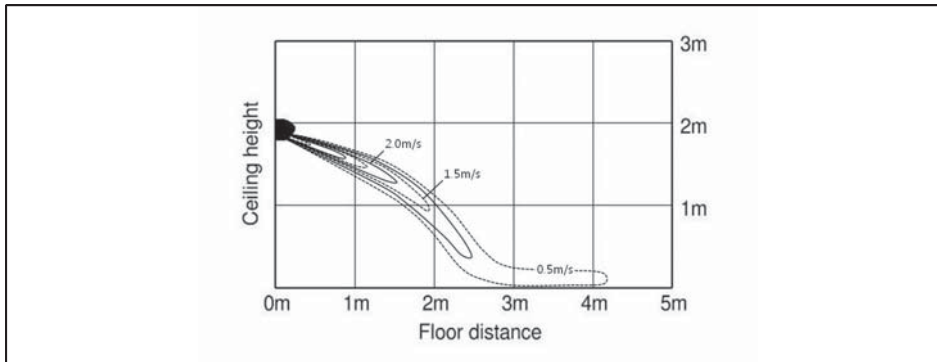


## 8 Temperature and air flow distribution

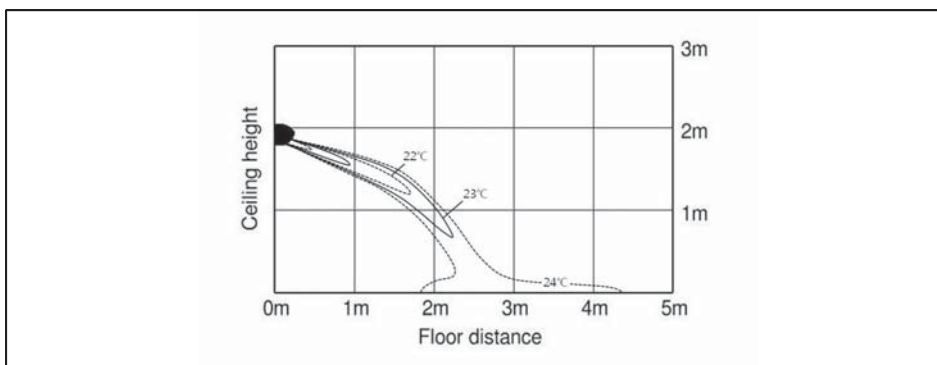
### Inverter(HP)

AR09HSFNBWKNET, AR09JSPFAWKNEU, AR09JSPFBWKNEU, AR09HSSDBWKNEU, AR09HSFSBWKNET, AR09HSFSBWKNZE, AR09HSFNMWKNZE

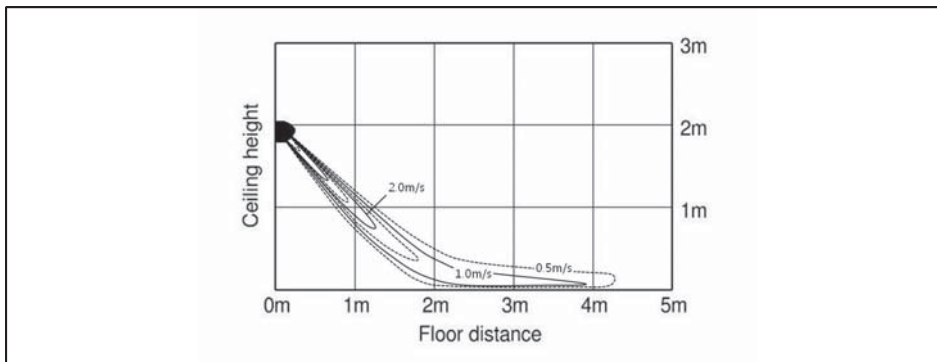
#### (1) Cooling air velocity distribution



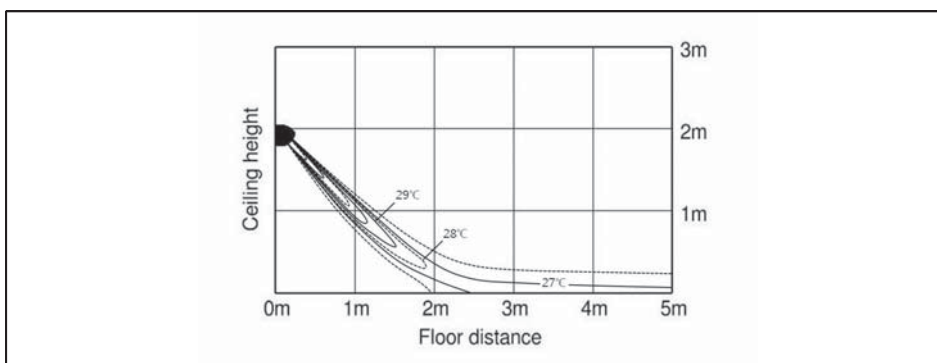
#### (2) Cooling temperature distribution



#### (3) Heating air velocity distribution



#### (4) Heating temperature distribution

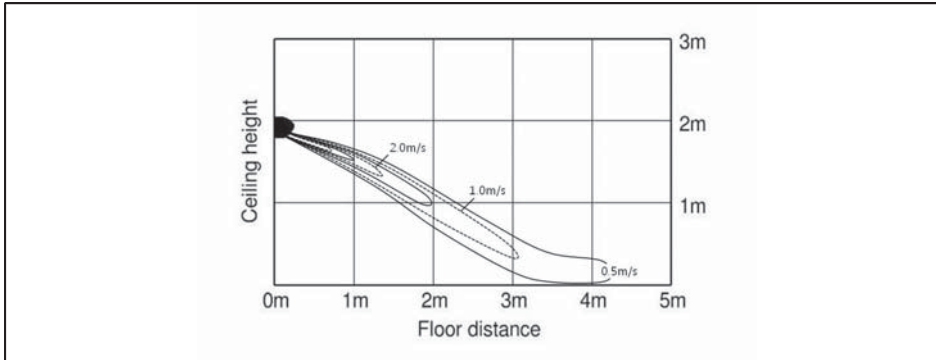


## 8 Temperature and air flow distribution

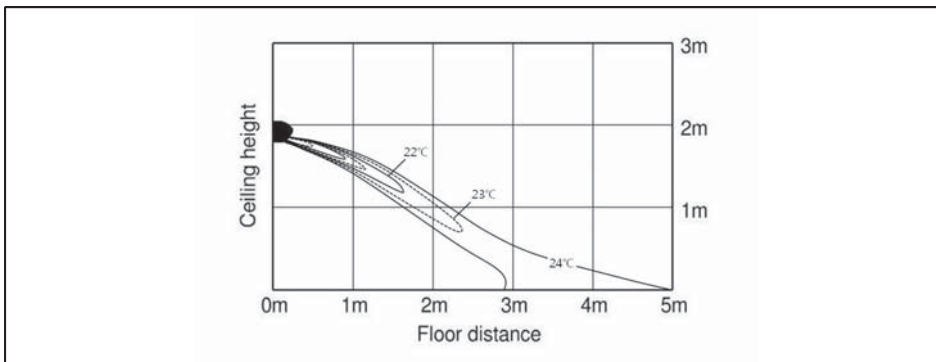
Inverter(HP)

AR09HSSDAWKNEU

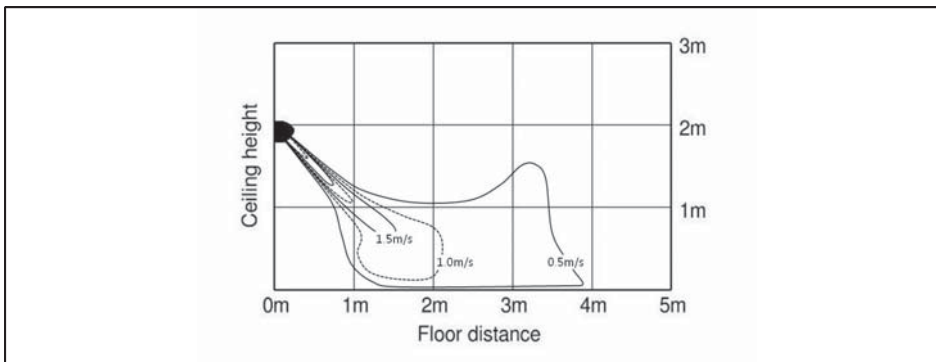
(1) Cooling air velocity distribution



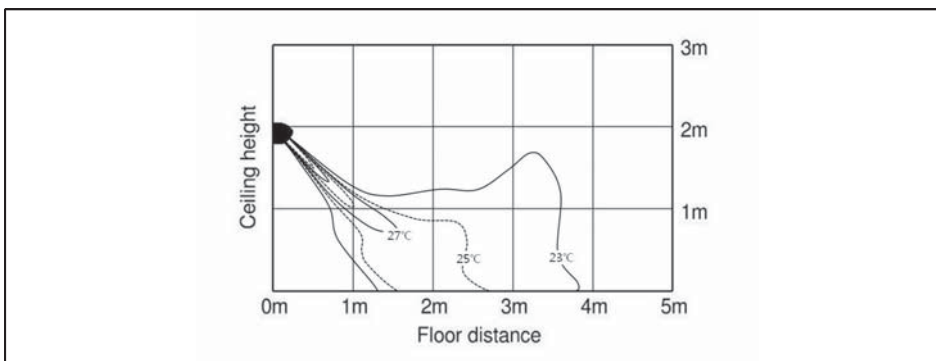
(2) Cooling temperature distribution



(3) Heating air velocity distribution



(4) Heating temperature distribution

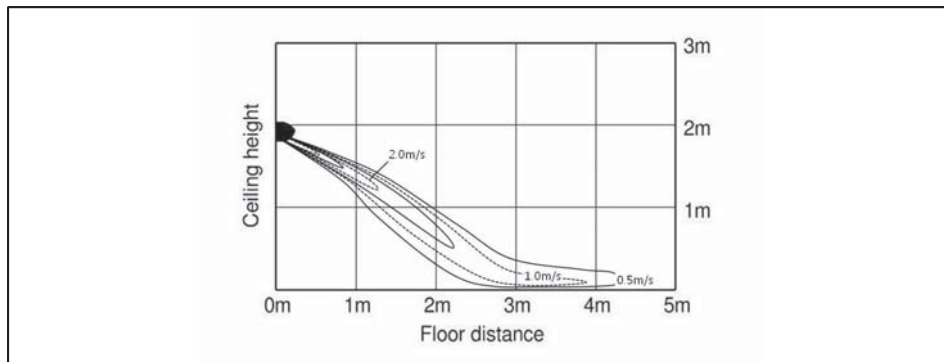


## 8 Temperature and air flow distribution

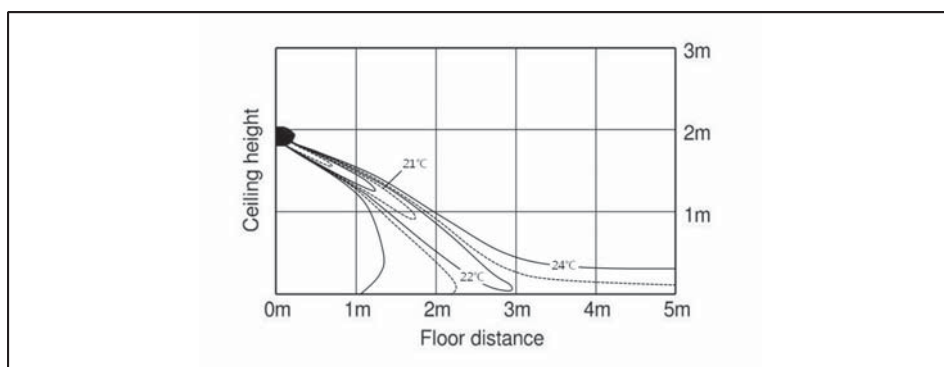
### Inverter(HP)

AR09JSFNCWKNET, AR09JSFSBURNET, AR09JSFNCWKNZE

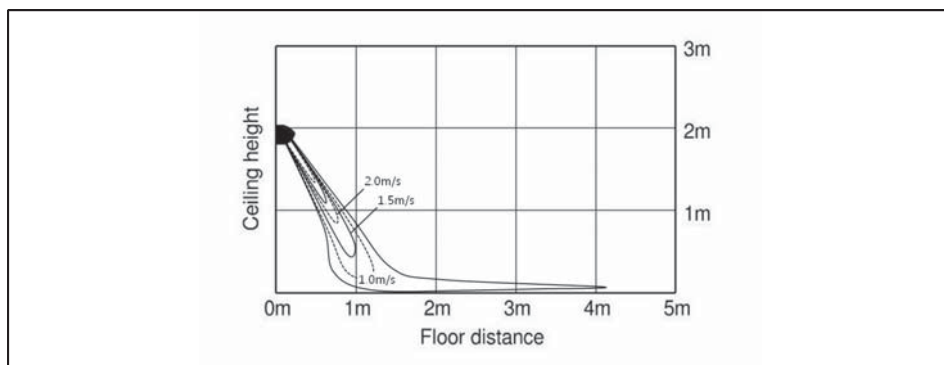
#### (1) Cooling air velocity distribution



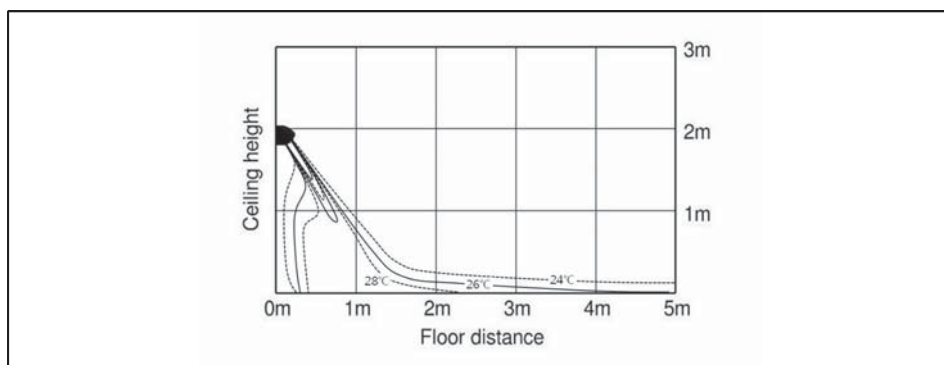
#### (2) Cooling temperature distribution



#### (3) Heating air velocity distribution



#### (4) Heating temperature distribution

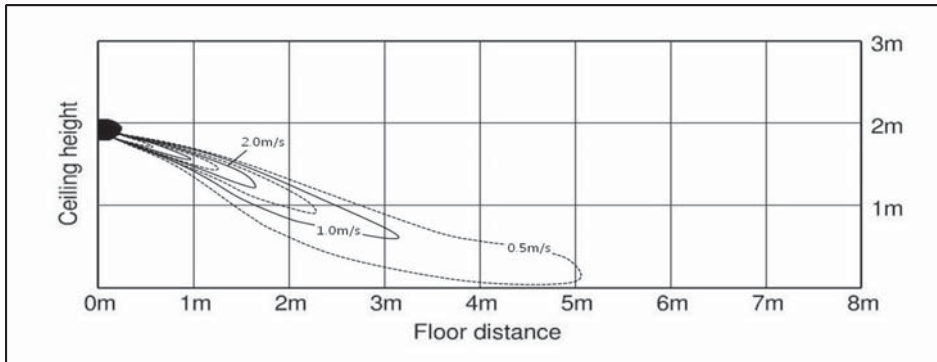


## 8 Temperature and air flow distribution

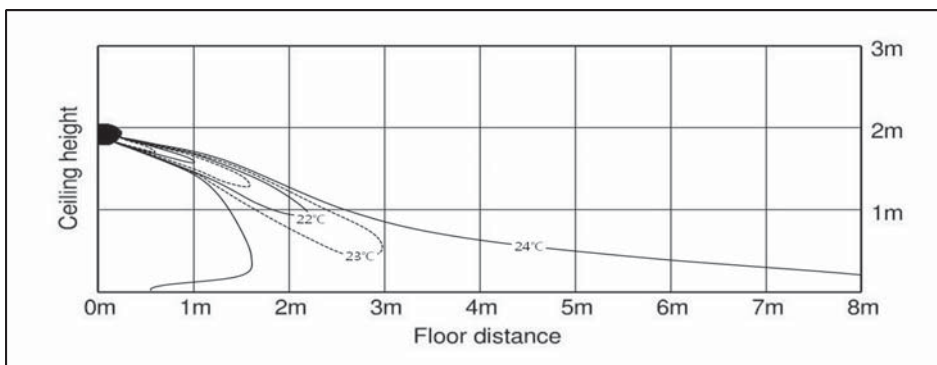
### Inverter(HP)

AR12HSFNBWKNET, AR12JSPFAWKNEU, AR12JSPFBWKNEU, AR12HSSDBWKNEU,  
AR12HSFSAWKNET, AR12HSFSAWKNZE, AR12HSFNMWKNZE

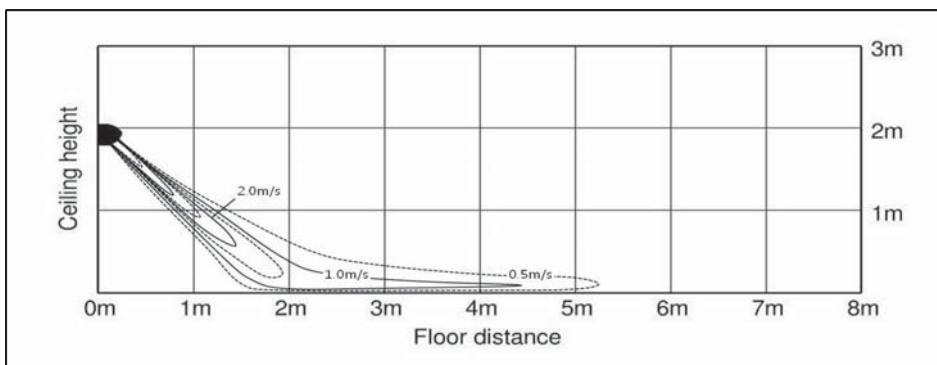
#### (1) Cooling air velocity distribution



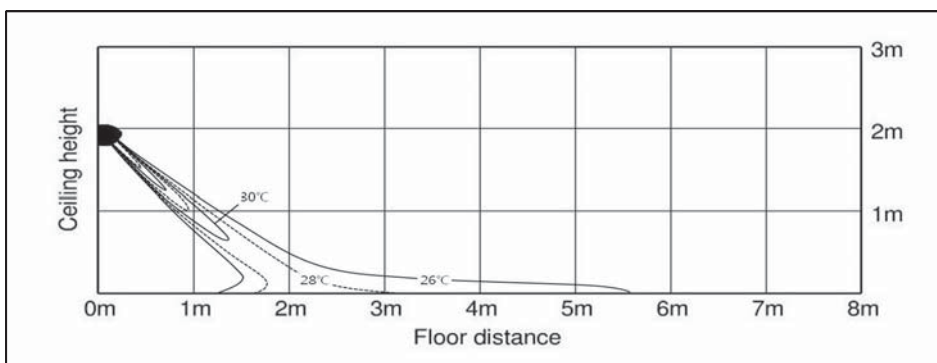
#### (2) Cooling temperature distribution



#### (3) Heating air velocity distribution



#### (4) Heating temperature distribution

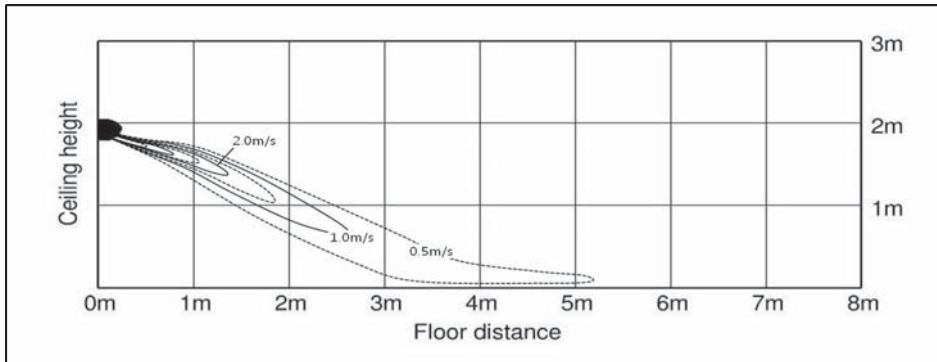


## 8 Temperature and air flow distribution

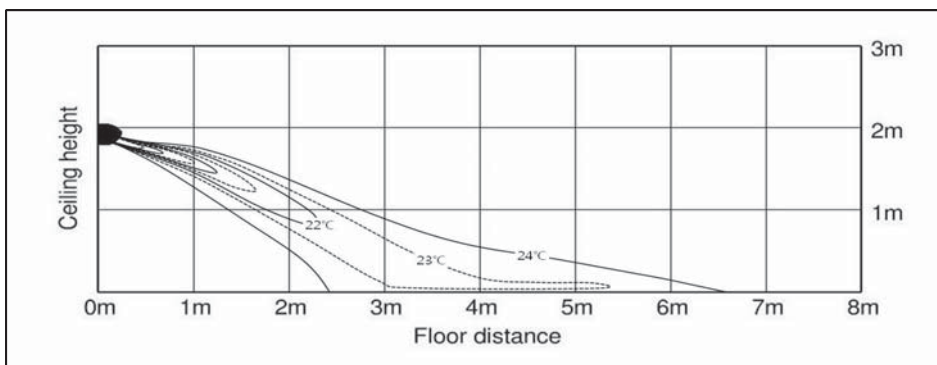
Inverter(HP)

AR12HSSDAWKNEU

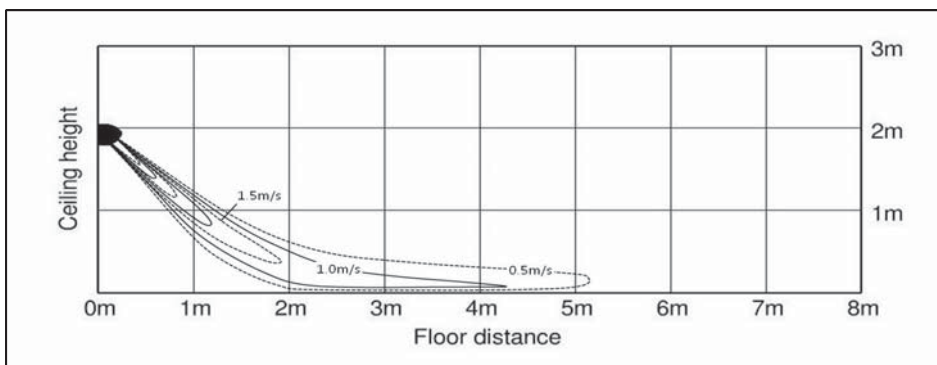
(1) Cooling air velocity distribution



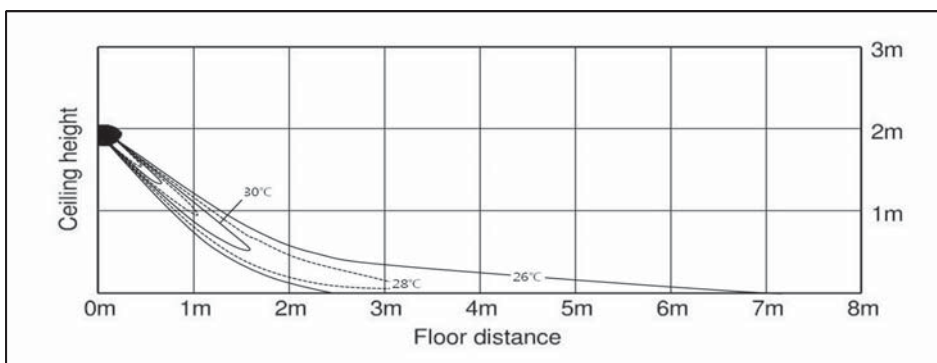
(2) Cooling temperature distribution



(3) Heating air velocity distribution



(4) Heating temperature distribution

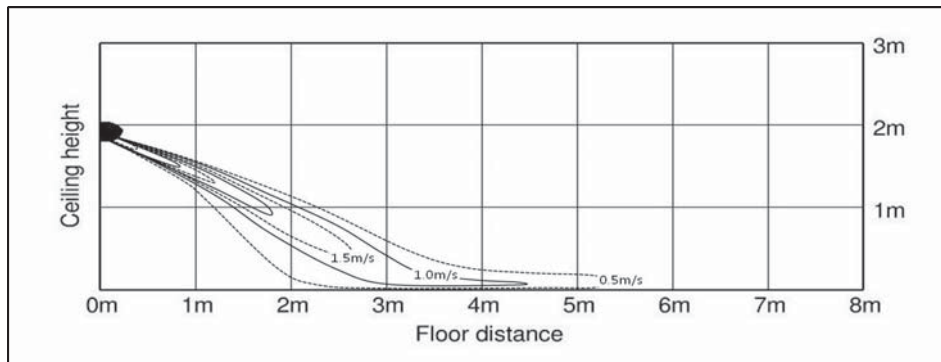


## 8 Temperature and air flow distribution

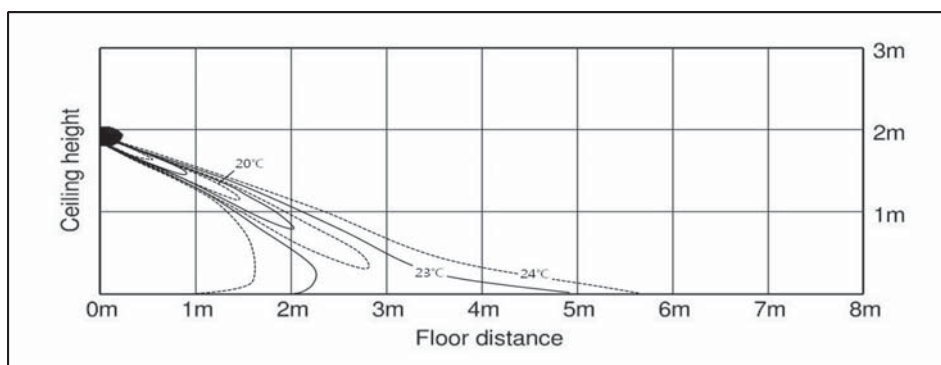
### Inverter(HP)

AR12JSFNCWKNET, AR12JSFSBURNET, AR12JSFNCWKNZE

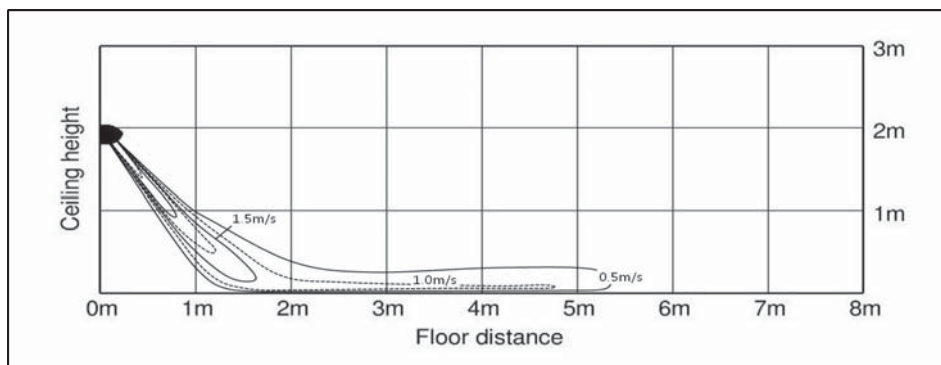
#### (1) Cooling air velocity distribution



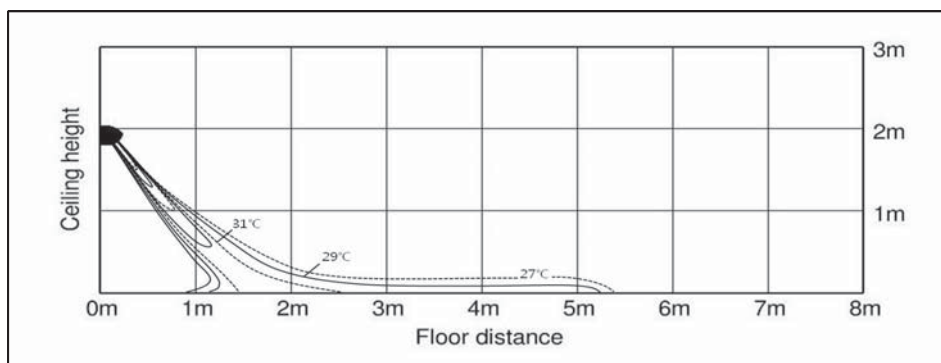
#### (2) Cooling temperature distribution



#### (3) Heating air velocity distribution



#### (4) Heating temperature distribution

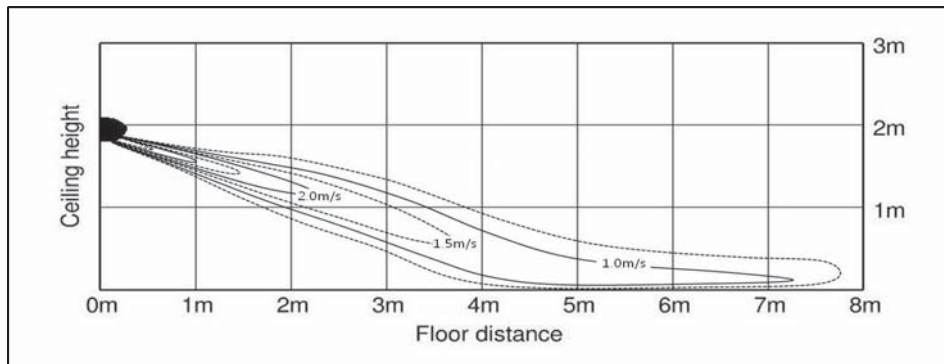


## 8 Temperature and air flow distribution

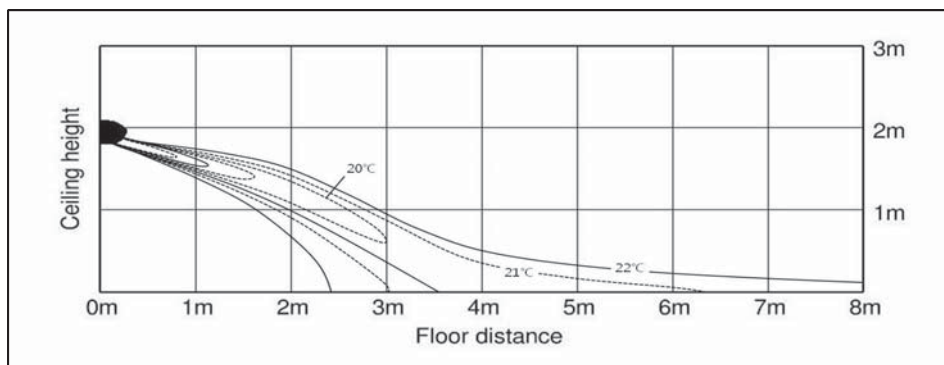
### Inverter(HP)

AR18HSFNBWKNEU, AR18HSSDBWKNEU, AR18HSFSAWKNEU, AR18JSFSBURNUEU, AR18JSFNCKWKNEU

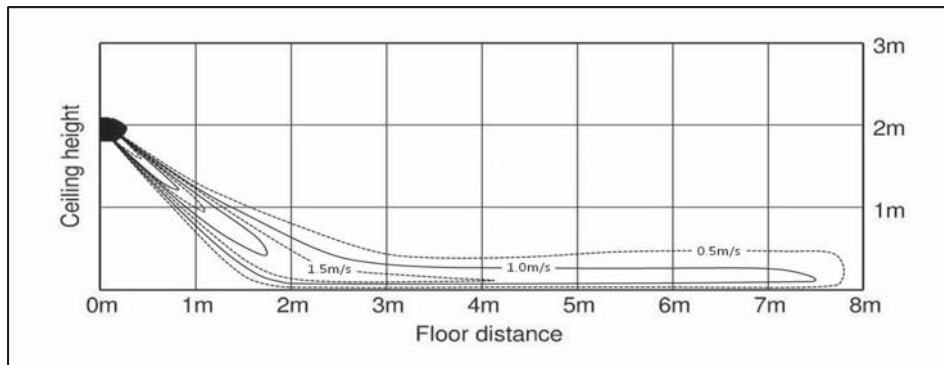
#### (1) Cooling air velocity distribution



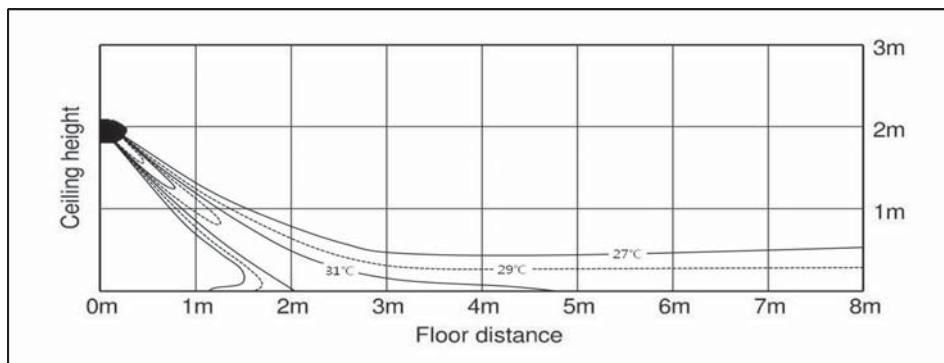
#### (2) Cooling temperature distribution



#### (3) Heating air velocity distribution



#### (4) Heating temperature distribution

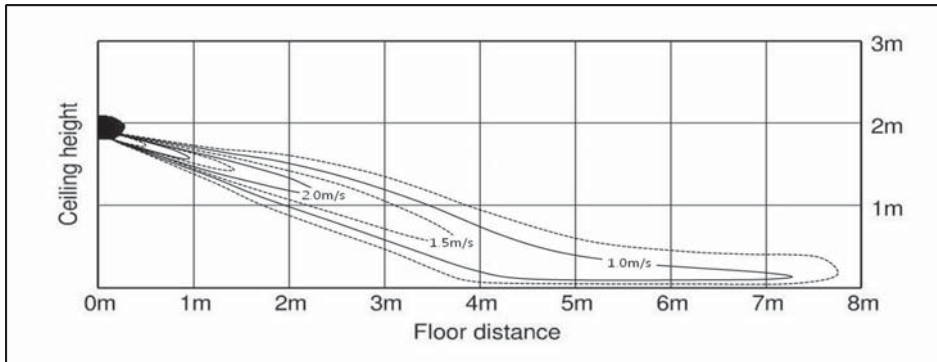


## 8 Temperature and air flow distribution

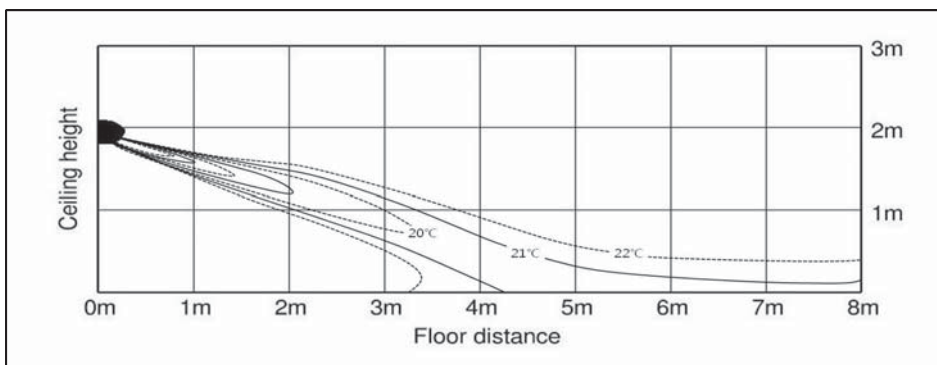
### Inverter(HP)

AR24HSFNBWKNEU, AR24HSSDBWKNEU, AR24HSFSAWKNEU, AR24JSFSBURNUEU, AR24JSFNCKWKNEU

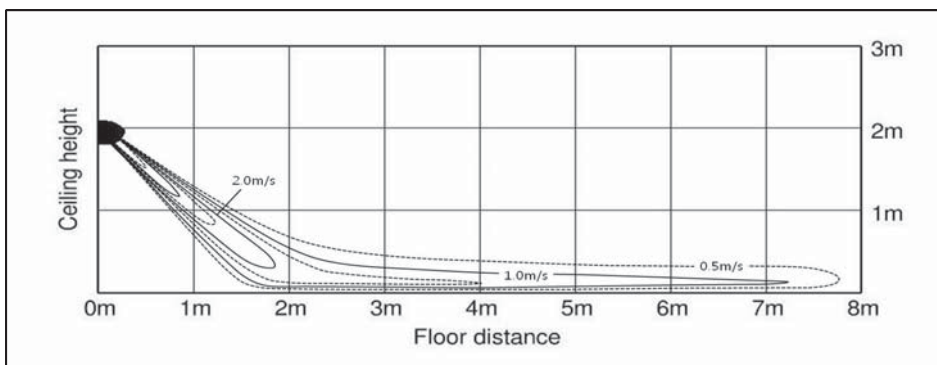
#### (1) Cooling air velocity distribution



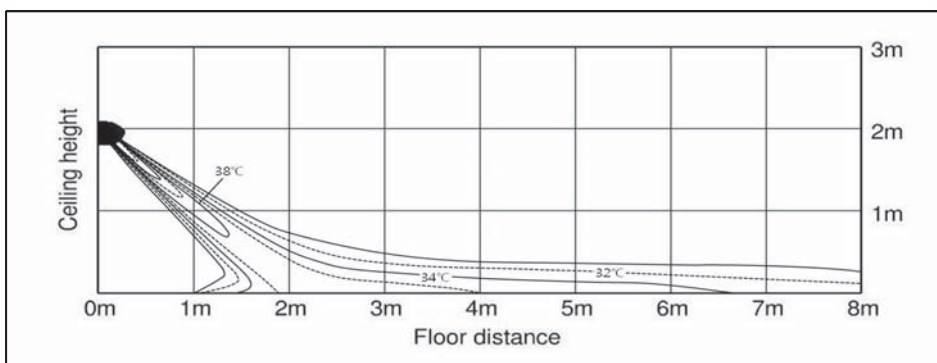
#### (2) Cooling temperature distribution



#### (3) Heating air velocity distribution



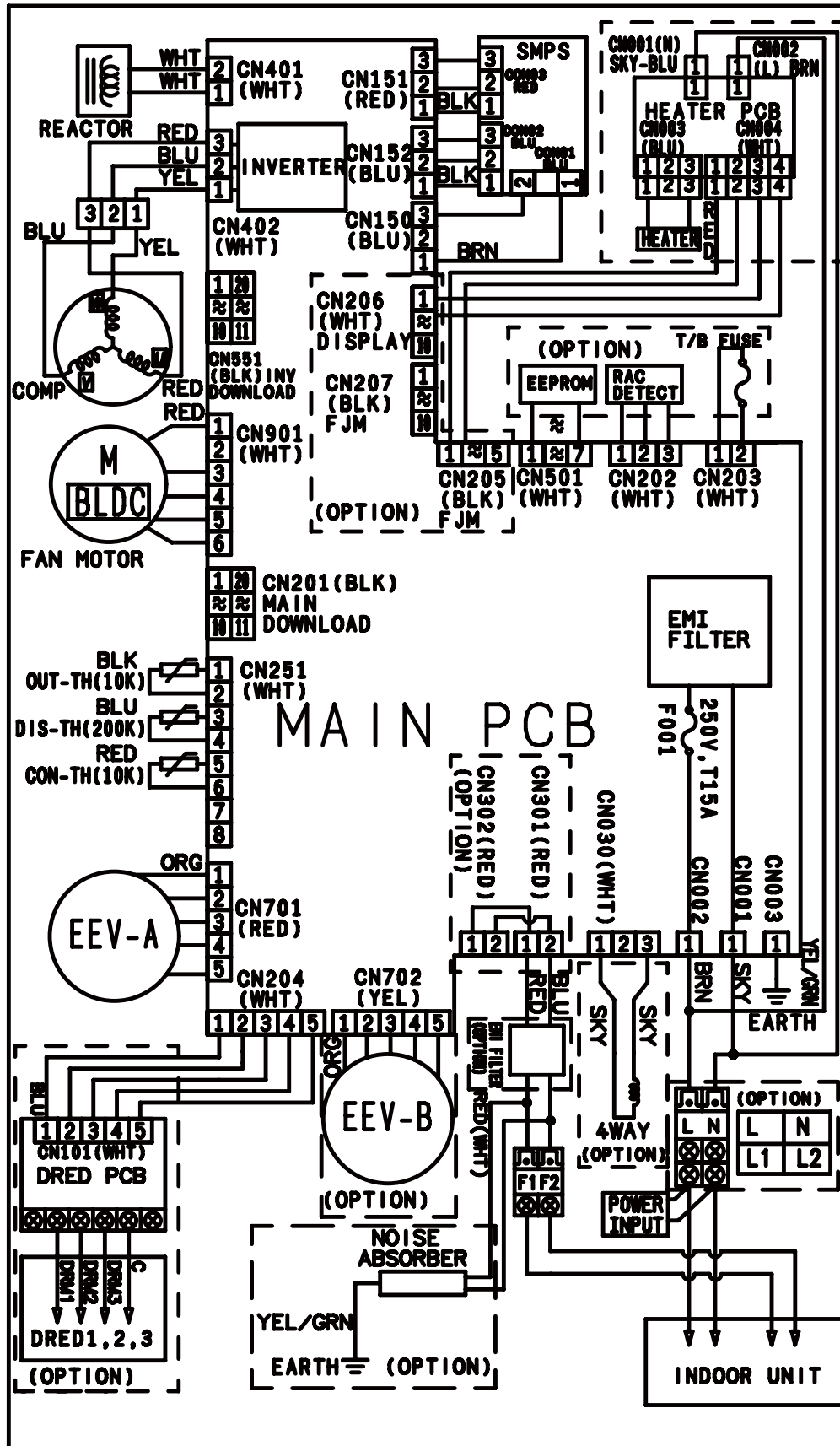
#### (4) Heating temperature distribution



# 9 Electrical wiring diagram

## Outdoor

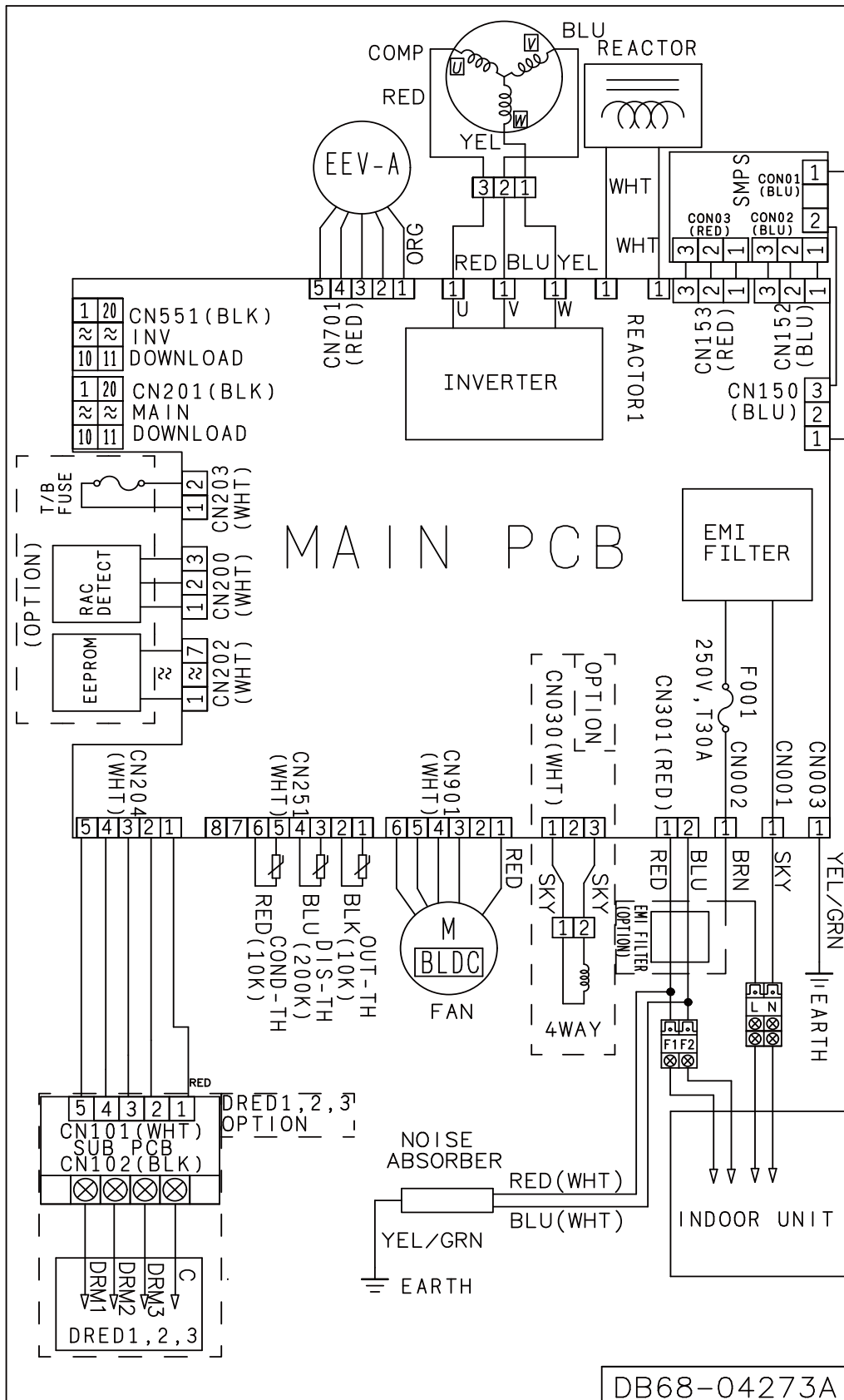
AR09HSFNBWXXET, AR09HSFNMWXXZE, AR09HSFSBWXXET, AR09HSFSBWXXZE, AR09HSSDAWXXEU, AR09HSSDBWXXEU, AR09JSFNCWXXET, AR09JSFNCWXXZE, AR09JSFSBURXET, AR09JSPFAWXXEU, AR09JSPFBWXXEU, AR12HSFNBWXXET, AR12HSFNMWXXZE, AR12HSFSAWXXET, AR12HSFSAWXXZE, AR12HSSDAWXXEU, AR12HSSDBWXXEU, AR12JSPFAWXXEU, AR12JSPFBWXXEU, AR12JSFNCWXXET, AR12JSFNCWXXZE, AR12JSFSBURXET, AR18HSFNBWXXEU, AR18HSFSAWXXEU, AR18JSFNCWXXEU, AR18JSFSBURXEU



# 9 Electrical wiring diagram

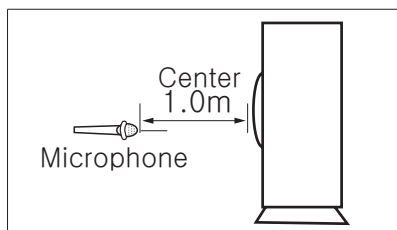
## Outdoor

AR18HSSDBWKXEU, AR24HSFNBWKXEU, AR24HSFSAWKXEU, AR24HSSDBWKXEU, AR24JSFNCWKXEU, AR24JSFSBURXEU



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

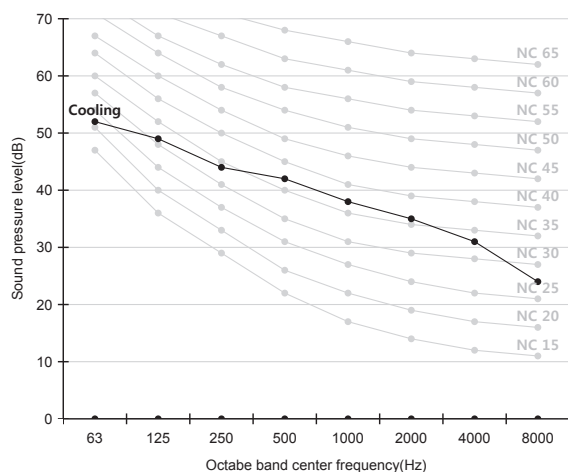
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR09HSFNBWKXET (IDU : AR09HSFNBWKNET) | 44.0    | -       |
| AR09HSFNMWKXZE (IDU : AR09HSFNMWKNZE) | 44.0    | -       |
| AR09HSFSBWKXET (IDU : AR09HSFSBWKNET) | 44.0    | -       |
| AR09HSFSBWKXZE (IDU : AR09HSFSBWKNE)  | 44.0    | -       |

### Note

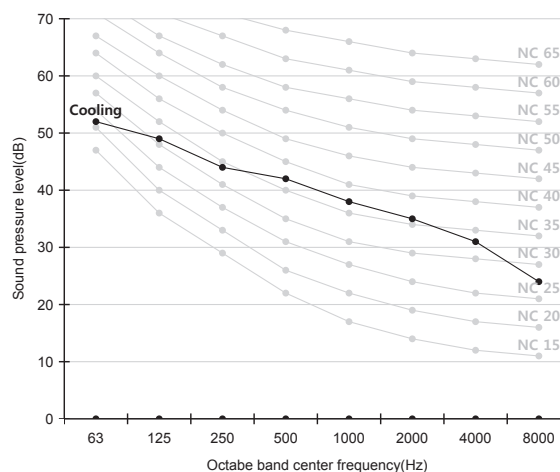
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

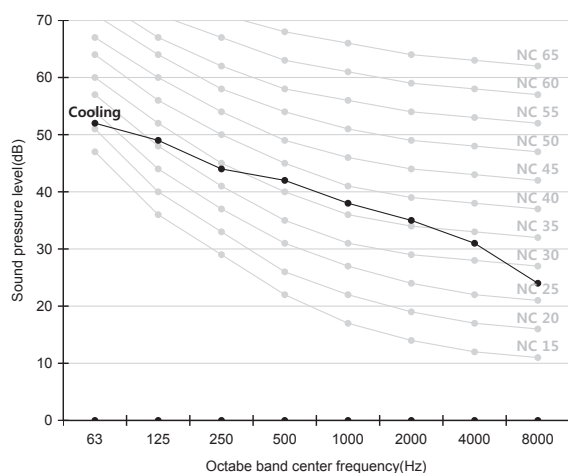
1) AR09HSFNBWKXET (IDU : AR09HSFNBWKNET)



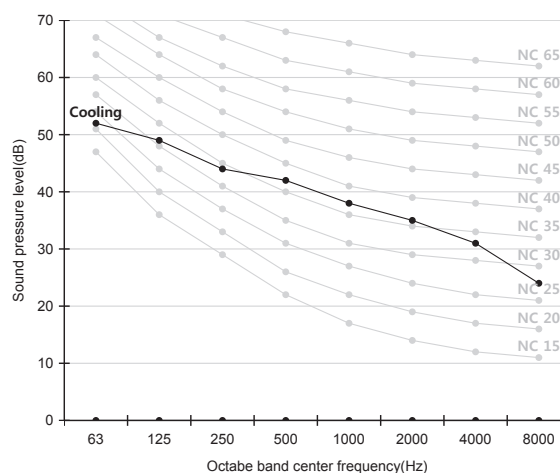
2) AR09HSFNMWKXZE (IDU : AR09HSFNMWKNZE)



3) AR09HSFSBWKXET (IDU : AR09HSFSBWKNET)

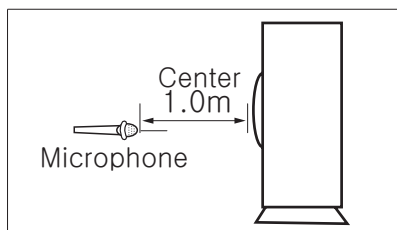


4) AR09HSFSBWKXZE (IDU : AR09HSFSBWKNE)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

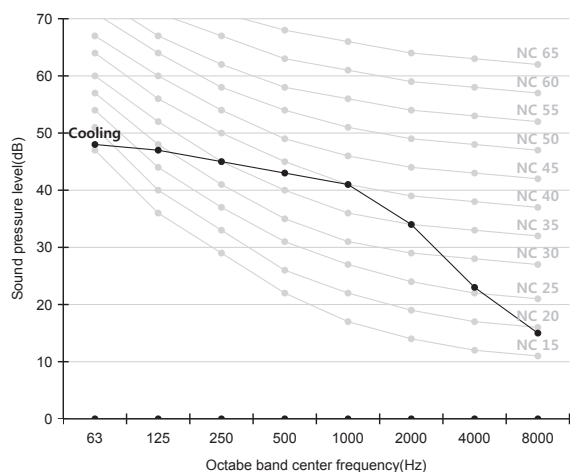
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR09HSSDAWKXEU (IDU : AR09HSSDAWKNEU) | 45.0    | -       |
| AR09HSSDBWKXEU (IDU : AR09HSSDBWKNEU) | 45.0    | -       |
| AR09JSFNCWKXET (IDU : AR09JSFNCWKNET) | 45.0    | -       |
| AR09JSFNCWKXZE (IDU : AR09JSFNCWKNEU) | 45.0    | -       |

### Note

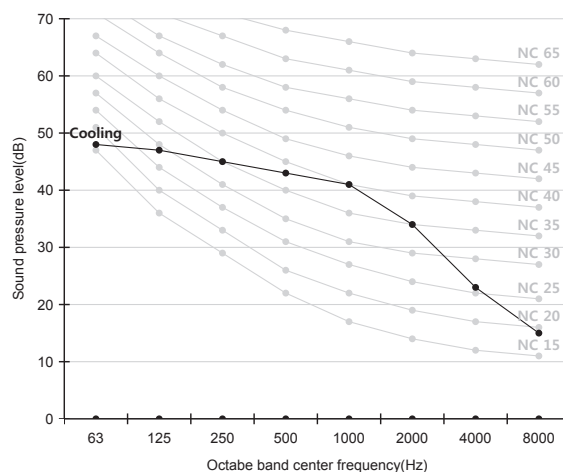
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

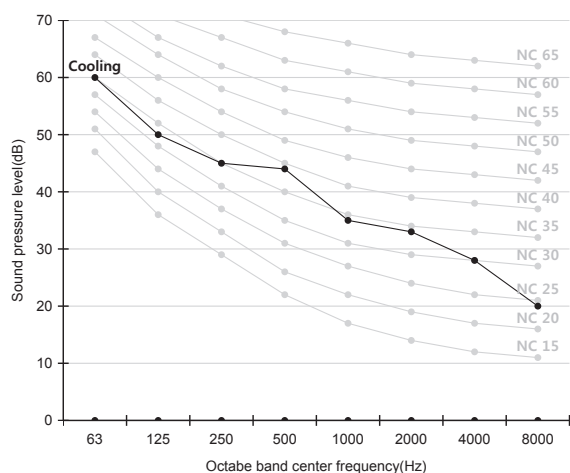
1) AR09HSSDAWKXEU (IDU : AR09HSSDAWKNEU)



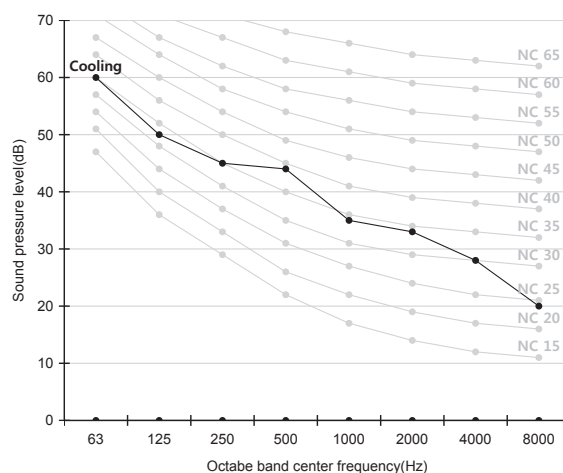
2) AR09HSSDBWKXEU (IDU : AR09HSSDBWKNEU)



3) AR09JSFNCWKXET (IDU : AR09JSFNCWKNET)

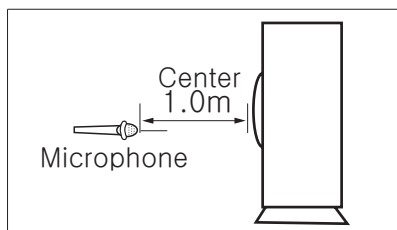


4) AR09JSFNCWKXZE (IDU : AR09JSFNCWKNEU)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

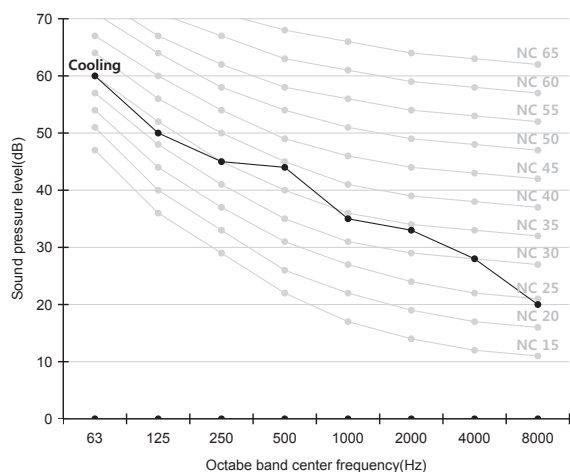
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR09JSFSBURXET (IDU : AR09JSFSBURNET) | 45.0    | -       |
| AR09JSPFAWKXEU (IDU : AR09JSPFAWKNEU) | 45.0    | -       |
| AR09JSPFBWKXEU (IDU : AR09JSPFBWKNEU) | 45.0    | -       |
| AR12HSFNBWKXET (IDU : AR12HSFNBWKNET) | 46.0    | -       |

### Note

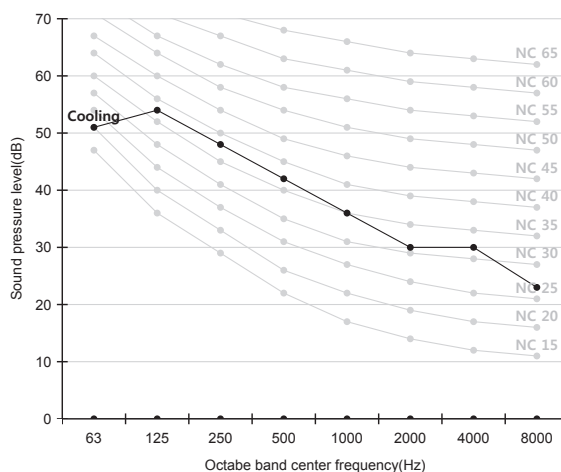
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

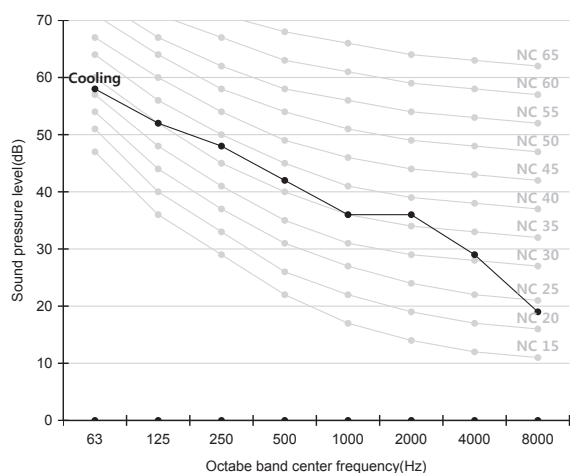
1) AR09JSFSBURXET (IDU : AR09JSFSBURNET)



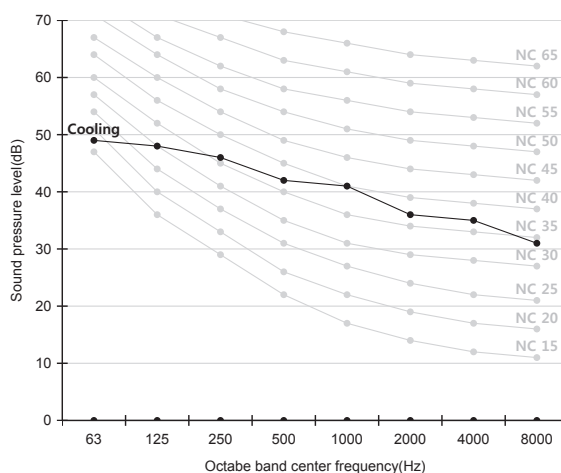
2) AR09JSPFAWKXEU (IDU : AR09JSPFAWKNEU)



3) AR09JSPFBWKXEU (IDU : AR09JSPFBWKNEU)

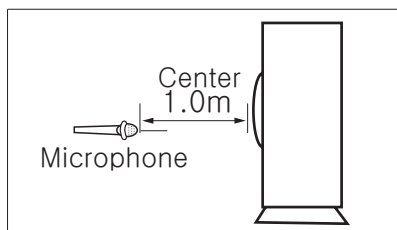


4) AR12HSFNBWKXET (IDU : AR12HSFNBWKNET)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

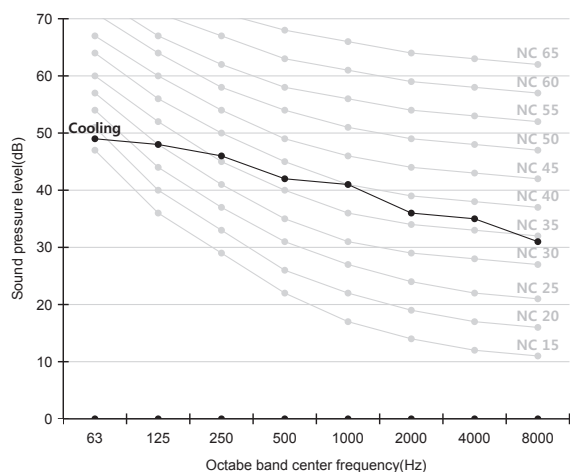
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR12HSFNMWKXZE (IDU : AR12HSFNMWKNZE) | 46.0    | -       |
| AR12HSFSAWKXET (IDU : AR12HSFSAWKNET) | 46.0    | -       |
| AR12HSFSAWKXZE (IDU : AR12HSFSAWKNZE) | 46.0    | -       |
| AR12HSSDAWKXEU (IDU : AR12HSSDAWKNEU) | 46.0    | -       |

### Note

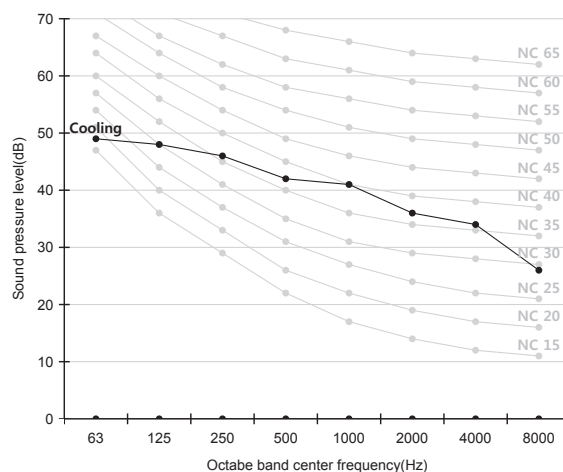
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

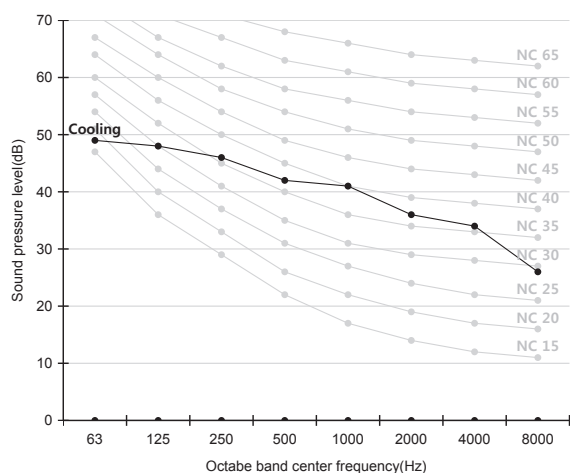
1) AR12HSFNMWKXZE (IDU : AR12HSFNMWKNZE)



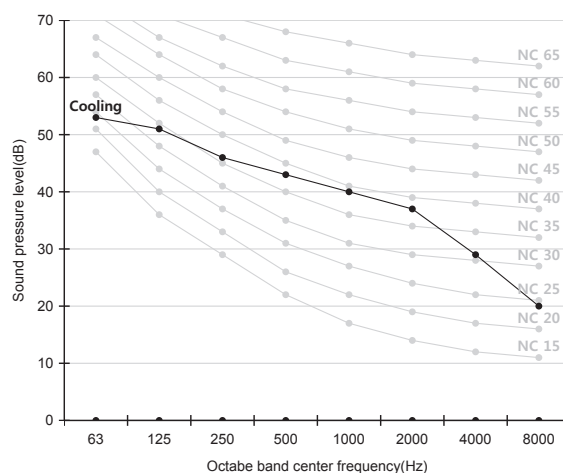
2) AR12HSFSAWKXET (IDU : AR12HSFSAWKNET)



3) AR12HSFSAWKXZE (IDU : AR12HSFSAWKNZE)

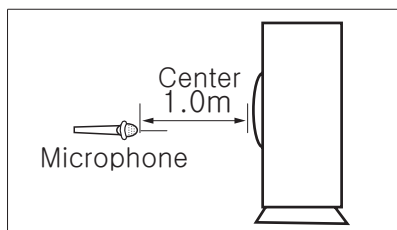


4) AR12HSSDAWKXEU (IDU : AR12HSSDAWKNEU)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

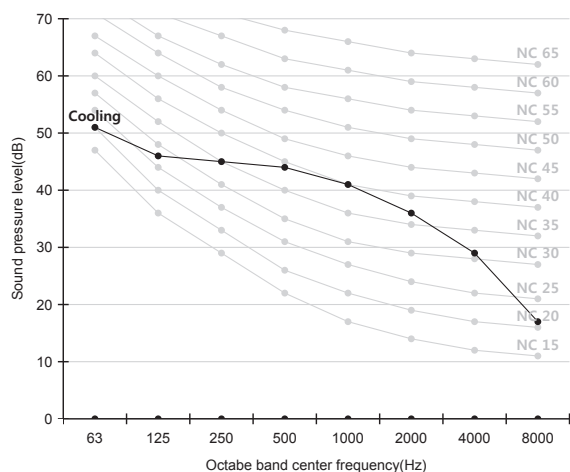
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR12HSSDBWKXEU (IDU : AR12HSSDBWKNEU) | 46.0    | -       |
| AR12JSFNCWKXET (IDU : AR12JSFNCWKNET) | 46.0    | -       |
| AR12JSFNCWKXZE (IDU : AR12JSFNCWKNEU) | 46.0    | -       |
| AR12JSFSBURXET (IDU : AR12JSFSBURNET) | 46.0    | -       |

### Note

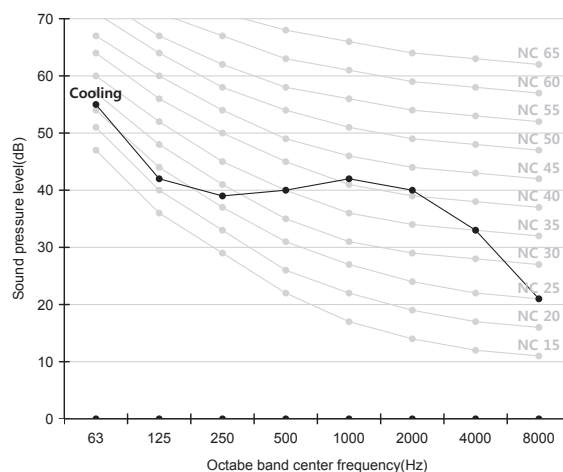
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

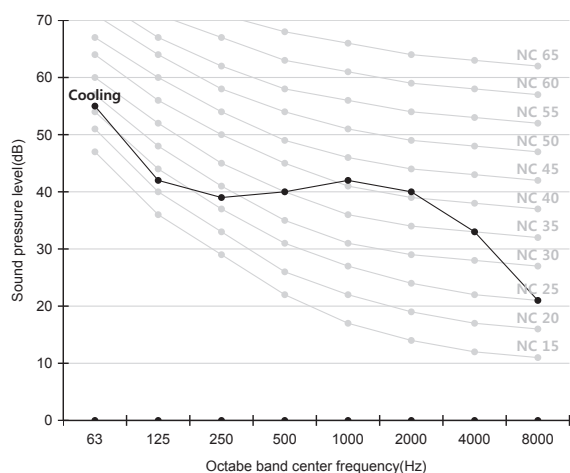
1) AR12HSSDBWKXEU (IDU : AR12HSSDBWKNEU)



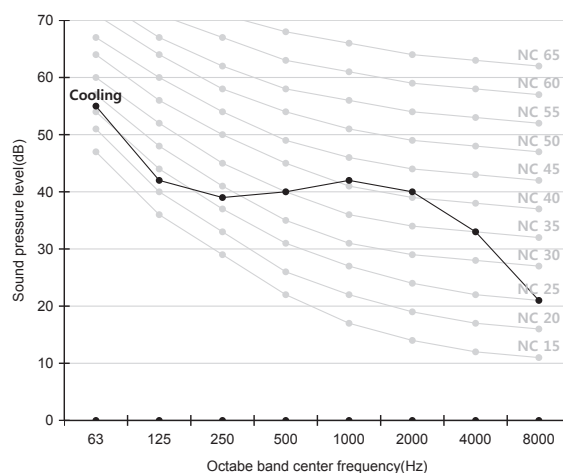
2) AR12JSFNCWKXET (IDU : AR12JSFNCWKNET)



3) AR12JSFNCWKXZE (IDU : AR12JSFNCWKNEU)

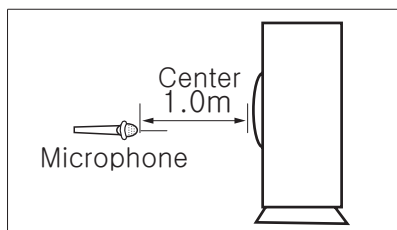


4) AR12JSFSBURXET (IDU : AR12JSFSBURNET)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

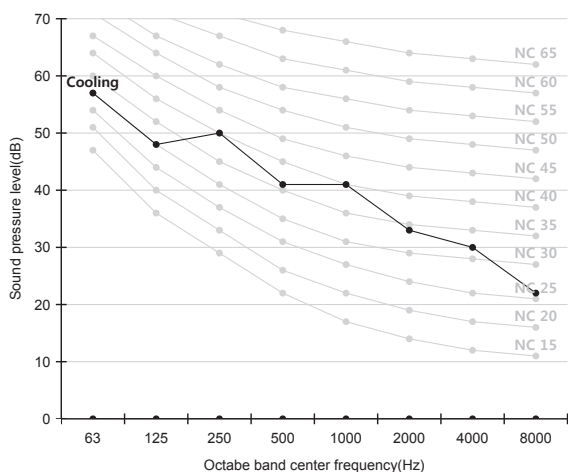
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR12JSPFAWKXEU (IDU : AR12JSPFAWKNEU) | 46.0    | -       |
| AR12JSPFBWKXEU (IDU : AR12JSPFBWKNEU) | 46.0    | -       |
| AR18HSFNBWKXEU (IDU : AR18HSFNBWKNEU) | 51.0    | -       |
| AR18HSFSAWKXEU (IDU : AR18HSFSAWKNEU) | 51.0    | -       |

### Note

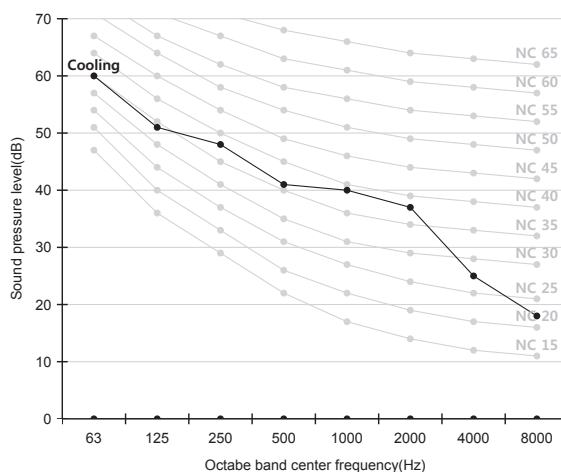
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

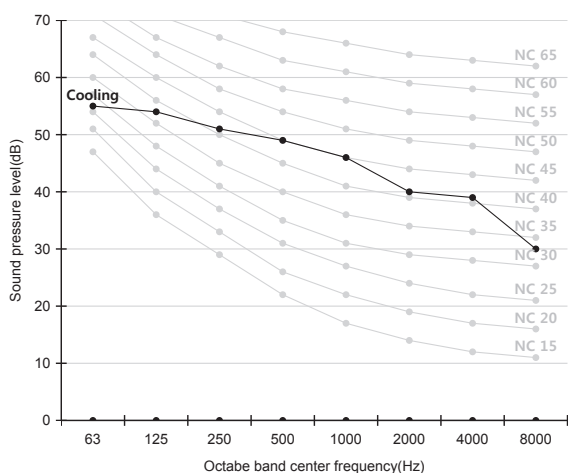
1) AR12JSPFAWKXEU (IDU : AR12JSPFAWKNEU)



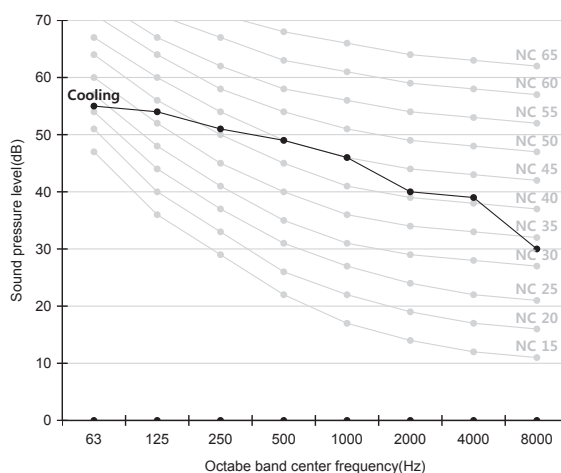
2) AR12JSPFBWKXEU (IDU : AR12JSPFBWKNEU)



3) AR18HSFNBWKXEU (IDU : AR18HSFNBWKNEU)

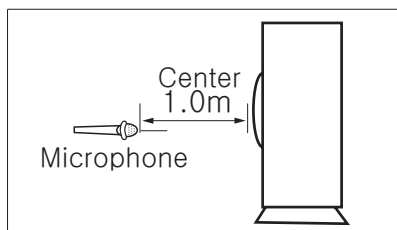


4) AR18HSFSAWKXEU (IDU : AR18HSFSAWKNEU)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

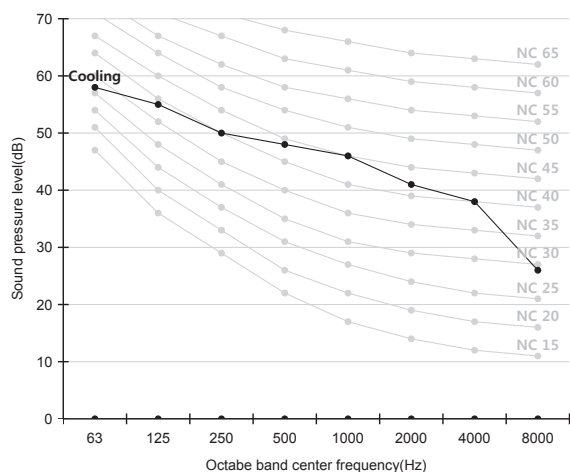
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR18HSSDBWKXEU (IDU : AR18HSSDBWKNEU) | 51.0    | -       |
| AR18JSFNCWKXEU (IDU : AR18JSFNCWKNEU) | 51.0    | -       |
| AR18JSFSBURXEU (IDU : AR18JSFSBURNEU) | 51.0    | -       |
| AR24HSFNBWKXEU (IDU : AR24HSFNBWKNEU) | 52.0    | -       |

### Note

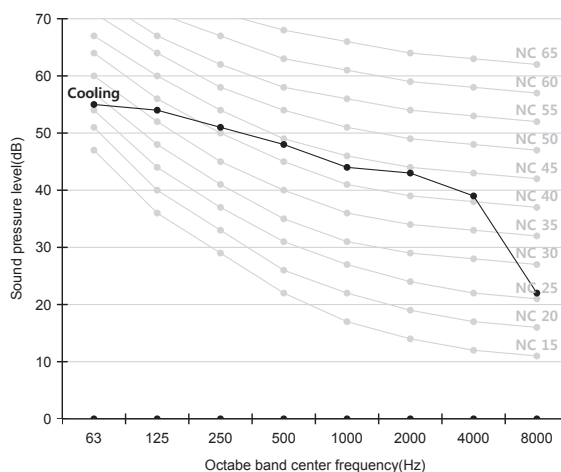
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

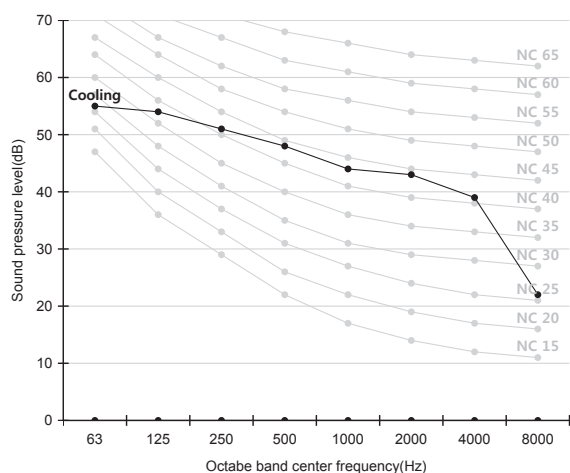
1) AR18HSSDBWKXEU (IDU : AR18HSSDBWKNEU)



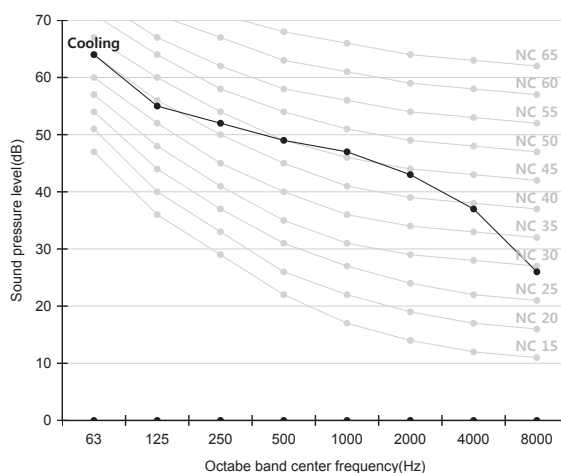
2) AR18JSFNCWKXEU (IDU : AR18JSFNCWKNEU)



3) AR18JSFSBURXEU (IDU : AR18JSFSBURNEU)

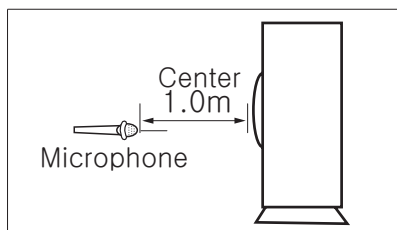


4) AR24HSFNBWKXEU (IDU : AR24HSFNBWKNEU)



# 10 Sound pressure level

## Outdoor



Unit: dB(A)

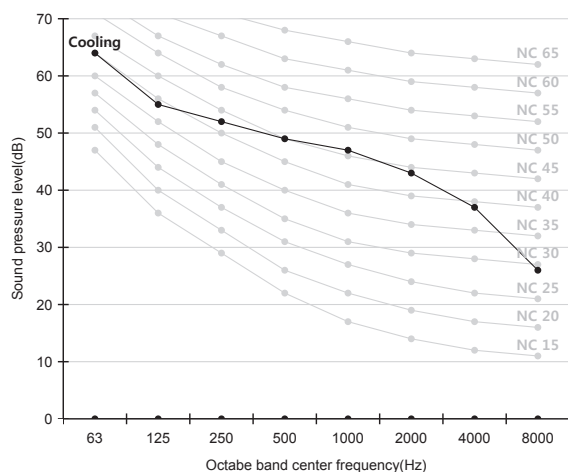
| Model                                 | Cooling | Heating |
|---------------------------------------|---------|---------|
| AR24HSFSAWKXEU (IDU : AR24HSFSAWKNEU) | 52.0    | -       |
| AR24HSSDBWKXEU (IDU : AR24HSSDBWKNEU) | 52.0    | -       |
| AR24JSFNCWKXEU (IDU : AR24JSFNCWKNEU) | 52.0    | -       |
| AR24JSFSBURXEU (IDU : AR24JSFSBURNEU) | 52.0    | -       |

### Note

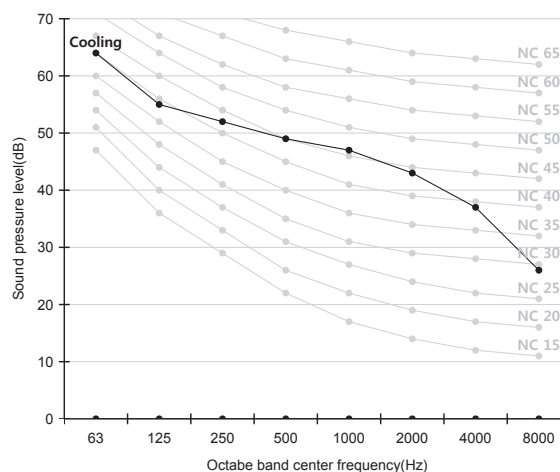
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

## NC curve

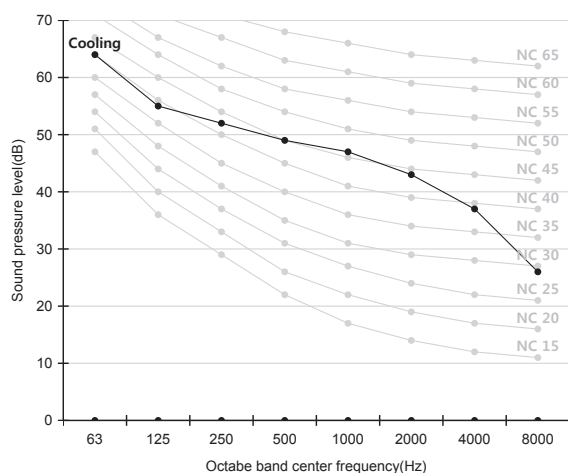
1) AR24HSFSAWKXEU (IDU : AR24HSFSAWKNEU)



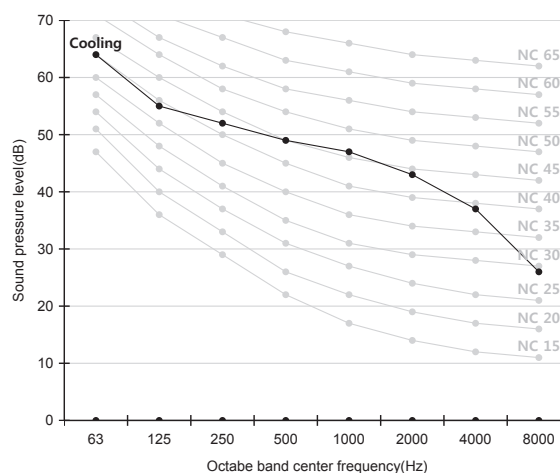
2) AR24HSSDBWKXEU (IDU : AR24HSSDBWKNEU)



3) AR24JSFNCWKXEU (IDU : AR24JSFNCWKNEU)



4) AR24JSFSBURXEU (IDU : AR24JSFSBURNEU)



# 11 Sound power level

## Outdoor

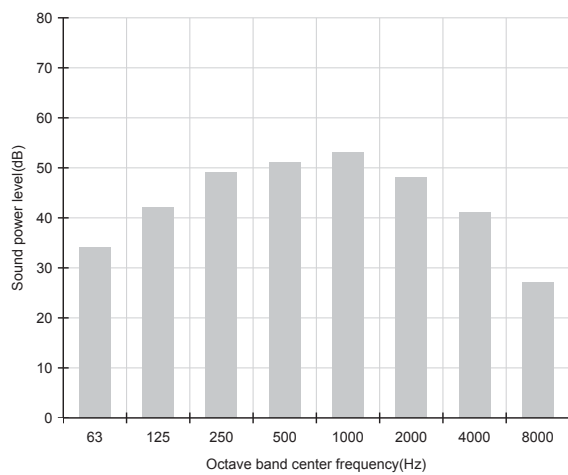
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

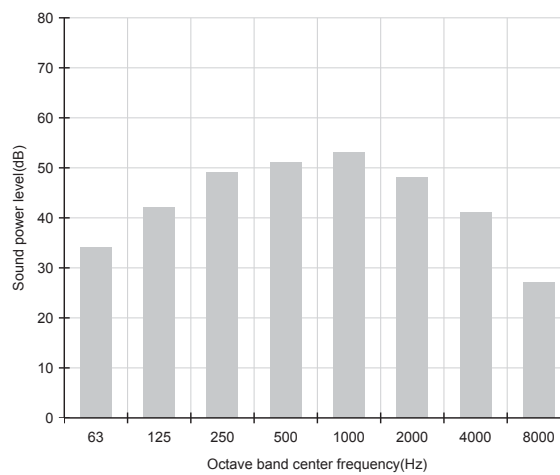
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR09HSFNBWKXET (IDU : AR09HSFNBWKNET) | 59.0  |
| AR09HSFNMWKXZE (IDU : AR09HSFNMWKNZE) | 59.0  |
| AR09HSFSBWKXET (IDU : AR09HSFSBWKNET) | 59.0  |
| AR09HSFSBWKXZE (IDU : AR09HSFSBWKNEZ) | 59.0  |

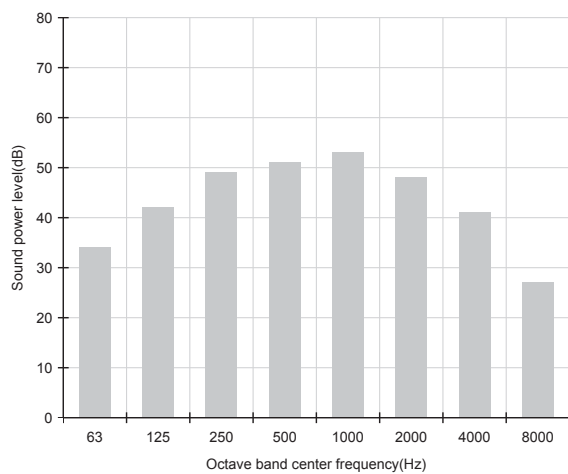
1) AR09HSFNBWKXET (IDU : AR09HSFNBWKNET)



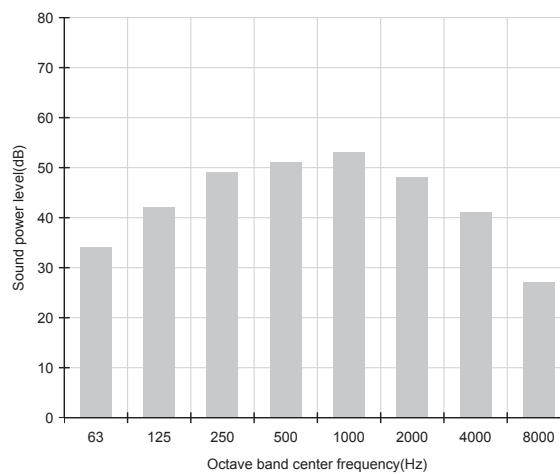
2) AR09HSFNMWKXZE (IDU : AR09HSFNMWKNZE)



3) AR09HSFSBWKXET (IDU : AR09HSFSBWKNET)



4) AR09HSFSBWKXZE (IDU : AR09HSFSBWKNEZ)



# 11 Sound power level

## Outdoor

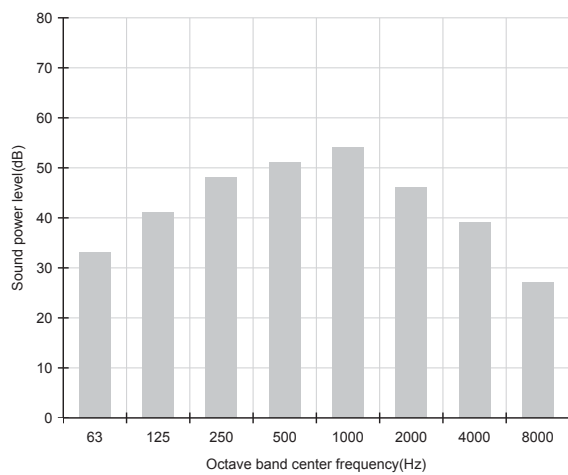
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

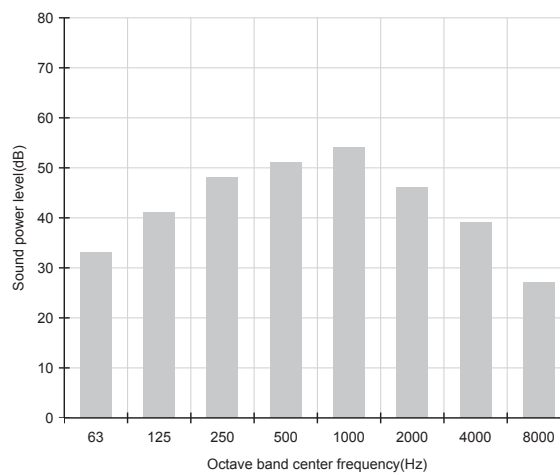
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR09HSSDAWKXEU (IDU : AR09HSSDAWKNEU) | 59.0  |
| AR09HSSDBWKXEU (IDU : AR09HSSDBWKNEU) | 59.0  |
| AR09JSFNCWKXET (IDU : AR09JSFNCWKNET) | 59.0  |
| AR09JSFNCWKXZE (IDU : AR09JSFNCWKNEU) | 59.0  |

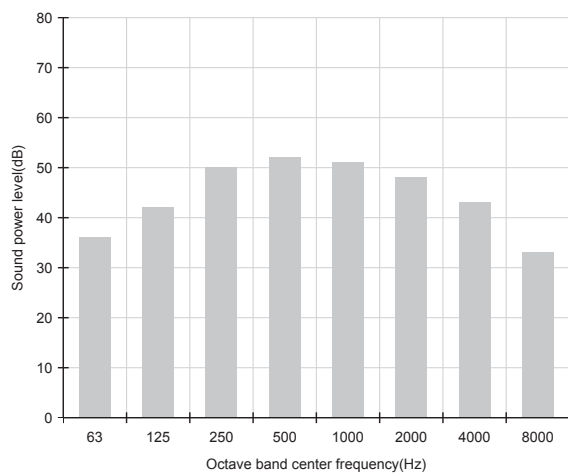
1) AR09HSSDAWKXEU (IDU : AR09HSSDAWKNEU)



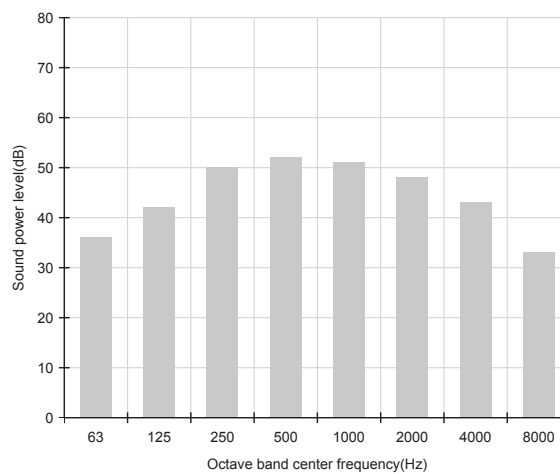
2) AR09HSSDBWKXEU (IDU : AR09HSSDBWKNEU)



3) AR09JSFNCWKXET (IDU : AR09JSFNCWKNET)



4) AR09JSFNCWKXZE (IDU : AR09JSFNCWKNEU)



# 11 Sound power level

## Outdoor

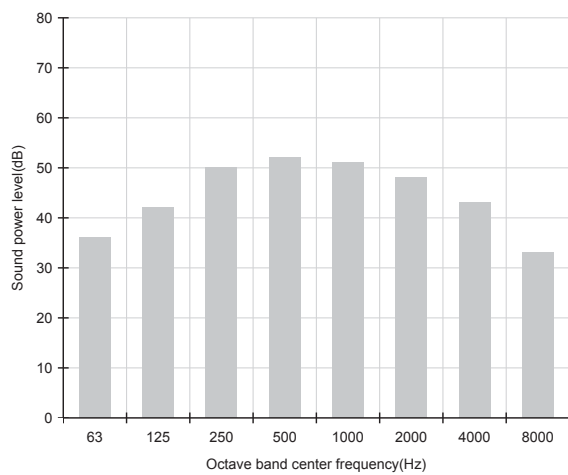
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

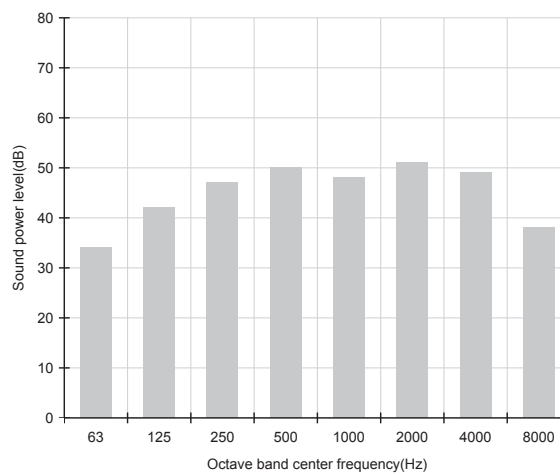
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR09JSFSBURXET (IDU : AR09JSFSBURNET) | 59.0  |
| AR09JSPFAWKXEU (IDU : AR09JSPFAWKNEU) | 59.0  |
| AR09JSPFBWKXEU (IDU : AR09JSPFBWKNEU) | 59.0  |
| AR12HSFNBWKXET (IDU : AR12HSFNBWKNET) | 62.0  |

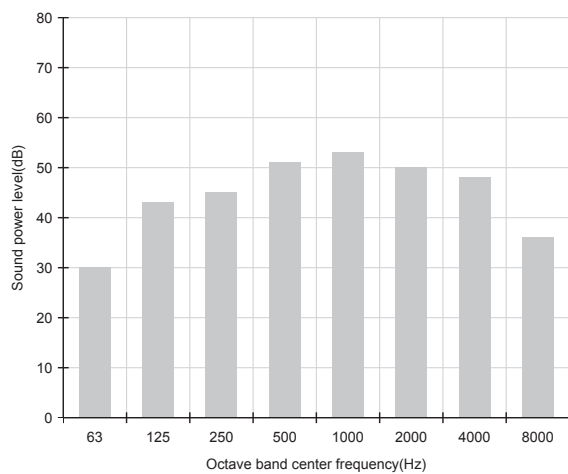
1) AR09JSFSBURXET (IDU : AR09JSFSBURNET)



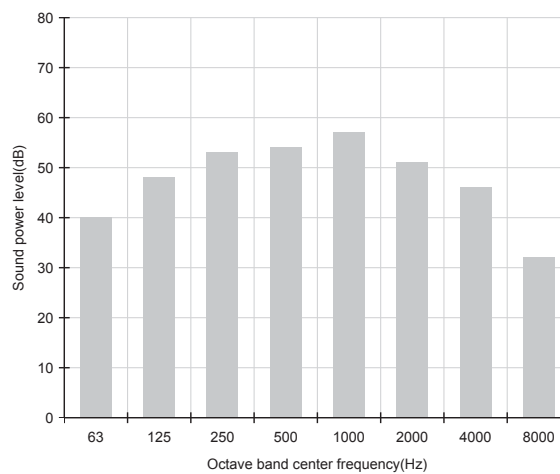
2) AR09JSPFAWKXEU (IDU : AR09JSPFAWKNEU)



3) AR09JSPFBWKXEU (IDU : AR09JSPFBWKNEU)



4) AR12HSFNBWKXET (IDU : AR12HSFNBWKNET)



# 11 Sound power level

## Outdoor

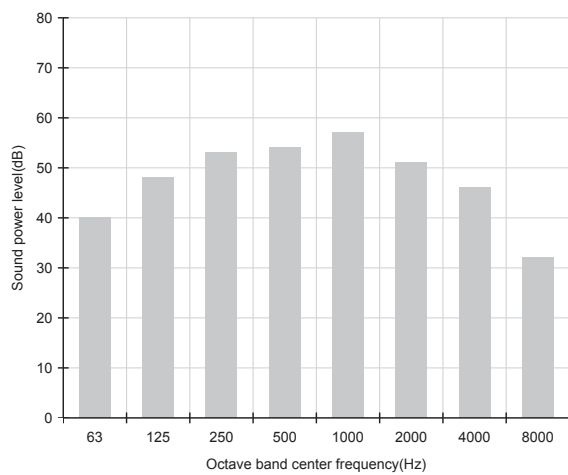
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

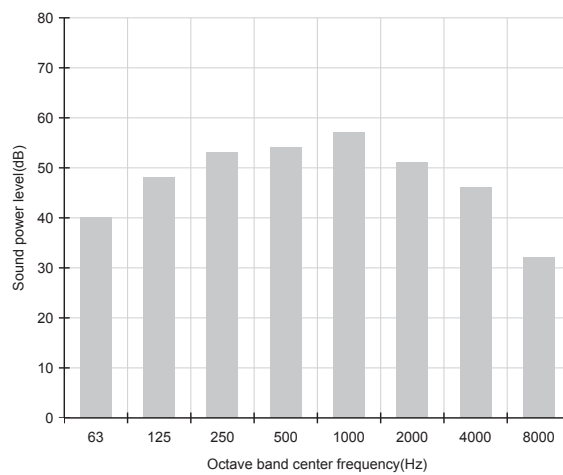
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR12HSFNMWKXZE (IDU : AR12HSFNMWKNZE) | 62.0  |
| AR12HSFSAWKXET (IDU : AR12HSFSAWKNET) | 62.0  |
| AR12HSFSAWKXZE (IDU : AR12HSFSAWKNZE) | 62.0  |
| AR12HSSDAWKXEU (IDU : AR12HSSDAWKNEU) | 62.0  |

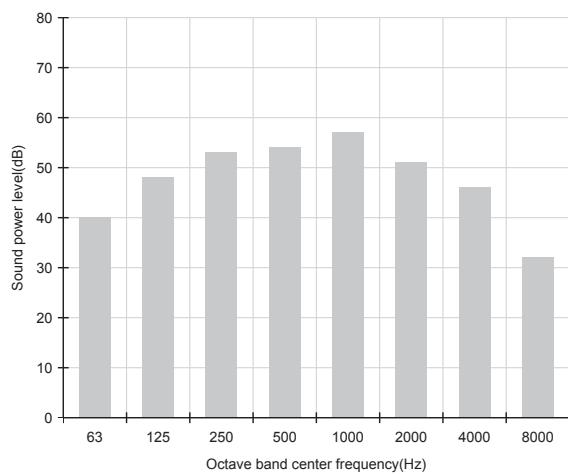
1) AR12HSFNMWKXZE (IDU : AR12HSFNMWKNZE)



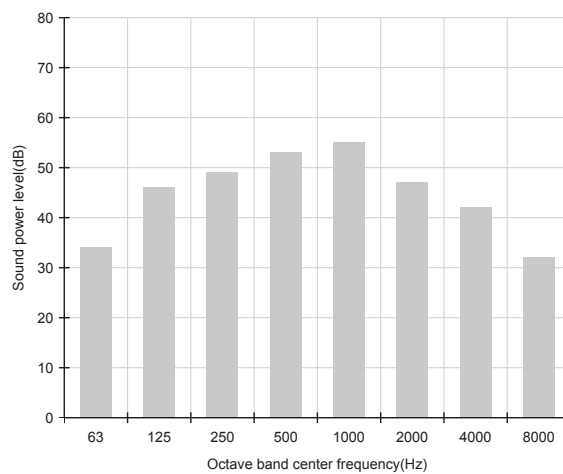
2) AR12HSFSAWKXET (IDU : AR12HSFSAWKNET)



3) AR12HSFSAWKXZE (IDU : AR12HSFSAWKNZE)



4) AR12HSSDAWKXEU (IDU : AR12HSSDAWKNEU)



# 11 Sound power level

## Outdoor

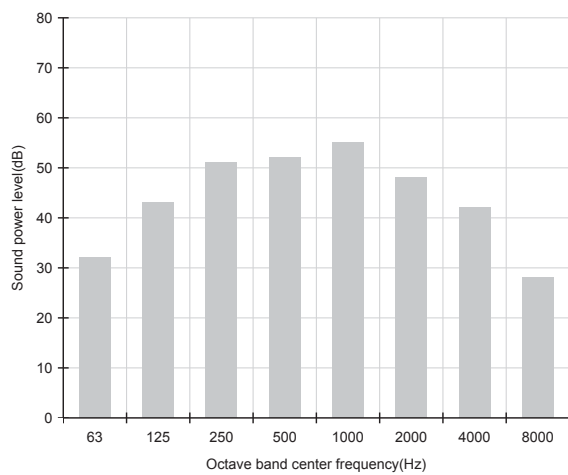
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

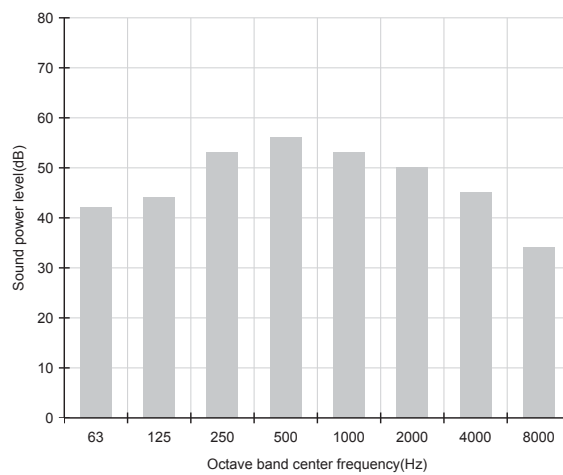
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR12HSSDBWKXEU (IDU : AR12HSSDBWKNEU) | 62.0  |
| AR12JSFNCWKXET (IDU : AR12JSFNCWKNET) | 62.0  |
| AR12JSFNCWKXZE (IDU : AR12JSFNCWKNZE) | 62.0  |
| AR12JSFSBURXET (IDU : AR12JSFSBURNET) | 62.0  |

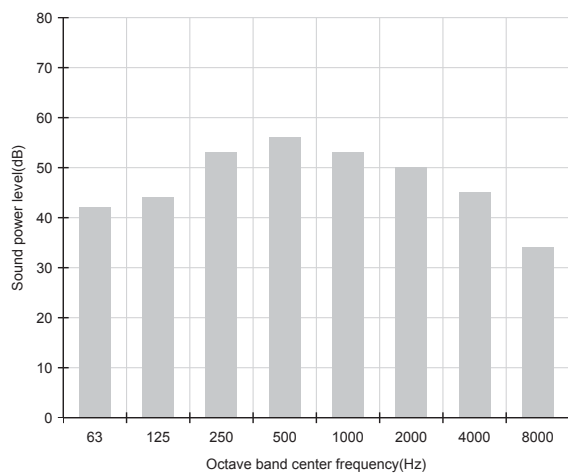
1) AR12HSSDBWKXEU (IDU : AR12HSSDBWKNEU)



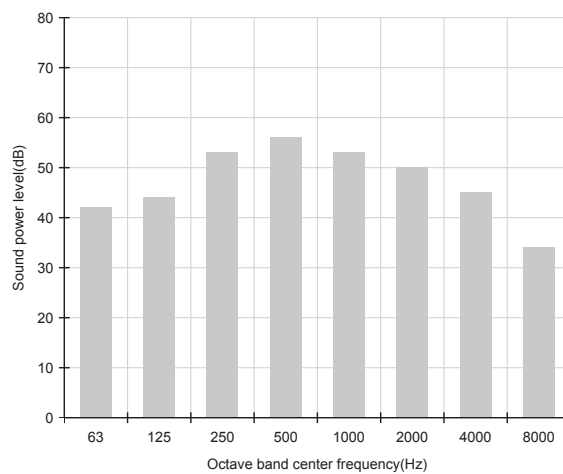
2) AR12JSFNCWKXET (IDU : AR12JSFNCWKNET)



3) AR12JSFNCWKXZE (IDU : AR12JSFNCWKNZE)



4) AR12JSFSBURXET (IDU : AR12JSFSBURNET)



# 11 Sound power level

## Outdoor

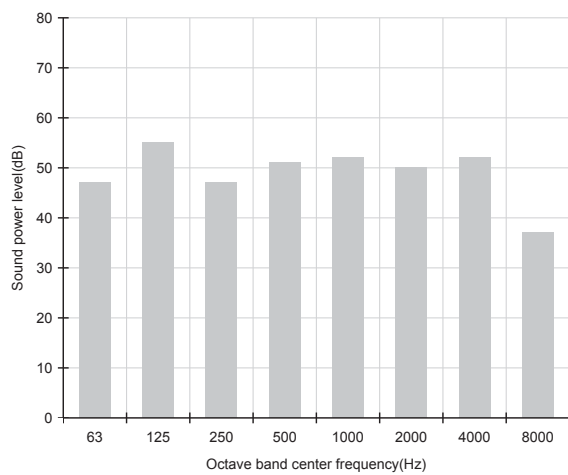
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

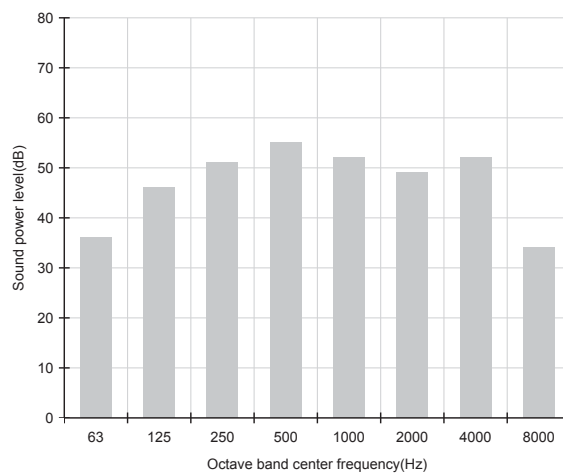
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR12JSPFAWKXEU (IDU : AR12JSPFAWKNEU) | 62.0  |
| AR12JSPFBWKXEU (IDU : AR12JSPFBWKNEU) | 62.0  |
| AR18HSFNBWKXEU (IDU : AR18HSFNBWKNEU) | 65.0  |
| AR18HSFSAWKXEU (IDU : AR18HSFSAWKNEU) | 65.0  |

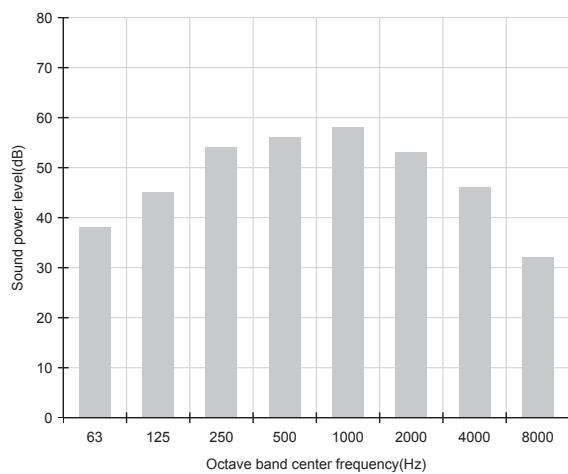
1) AR12JSPFAWKXEU (IDU : AR12JSPFAWKNEU)



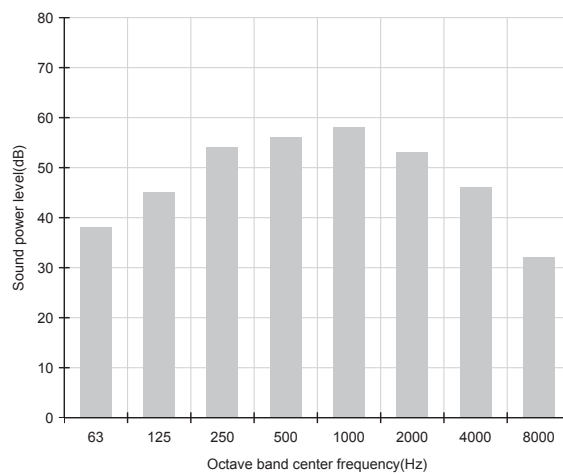
2) AR12JSPFBWKXEU (IDU : AR12JSPFBWKNEU)



3) AR18HSFNBWKXEU (IDU : AR18HSFNBWKNEU)



4) AR18HSFSAWKXEU (IDU : AR18HSFSAWKNEU)



# 11 Sound power level

## Outdoor

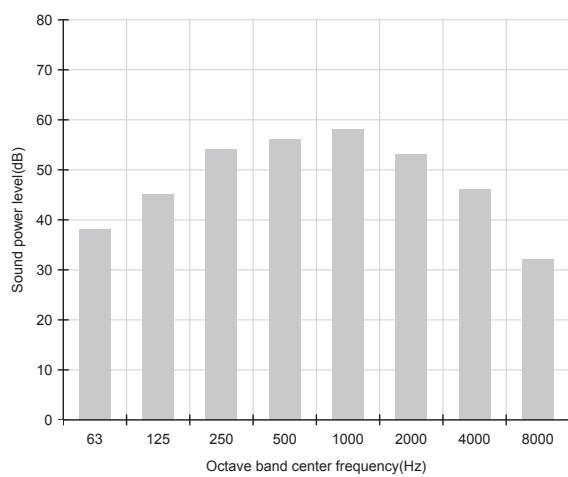
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

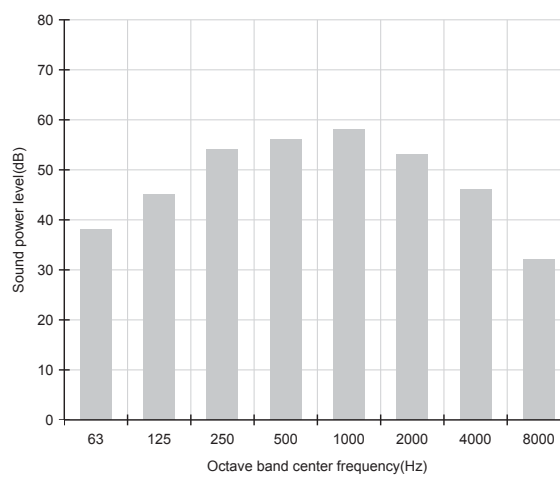
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR18HSSDBWKXEU (IDU : AR18HSSDBWKNEU) | 65.0  |
| AR18JSFNCWKXEU (IDU : AR18JSFNCWKNEU) | 65.0  |
| AR18JSFSBURXEU (IDU : AR18JSFSBURNEU) | 65.0  |
| AR24HSFNBWKXEU (IDU : AR24HSFNBWKNEU) | 67.0  |

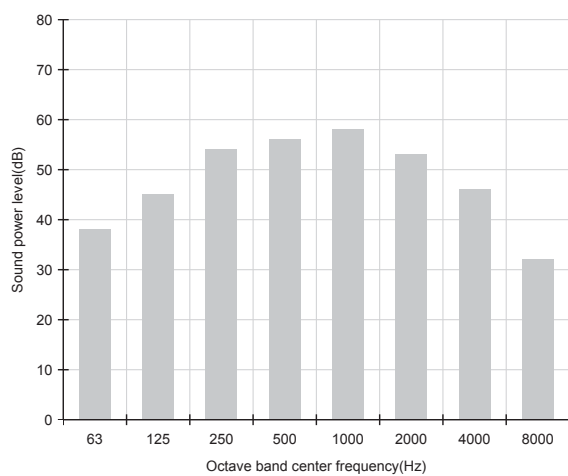
1) AR18HSSDBWKXEU (IDU : AR18HSSDBWKNEU)



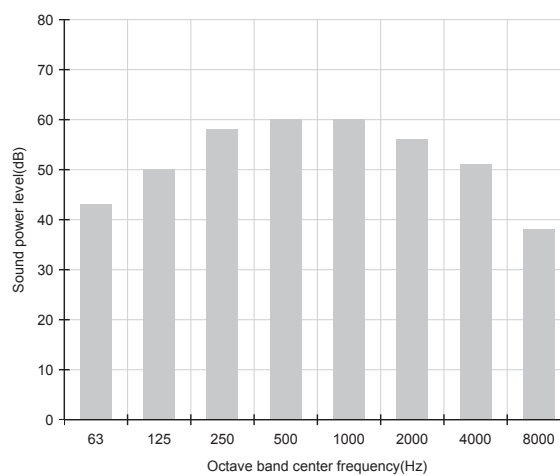
2) AR18JSFNCWKXEU (IDU : AR18JSFNCWKNEU)



3) AR18JSFSBURXEU (IDU : AR18JSFSBURNEU)



4) AR24HSFNBWKXEU (IDU : AR24HSFNBWKNEU)



# 11 Sound power level

## Outdoor

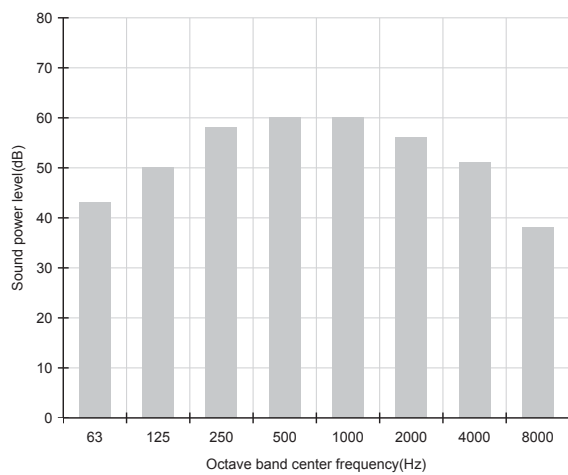
### Note

dBA = A-weighted sound power level.  
Reference power : 1pW.  
Measured according to ISO 3741.

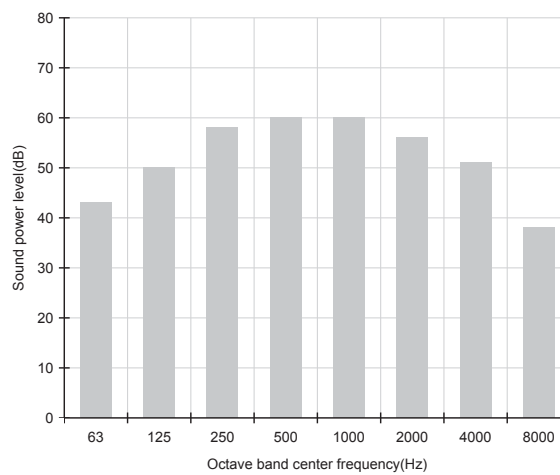
Unit: dB(A)

| Model                                 | Power |
|---------------------------------------|-------|
| AR24HSFSAWKXEU (IDU : AR24HSFSAWKNEU) | 67.0  |
| AR24HSSDBWKXEU (IDU : AR24HSSDBWKNEU) | 67.0  |
| AR24JSFNCWKXEU (IDU : AR24JSFNCWKNEU) | 67.0  |
| AR24JSFSBURXEU (IDU : AR24JSFSBURNEU) | 67.0  |

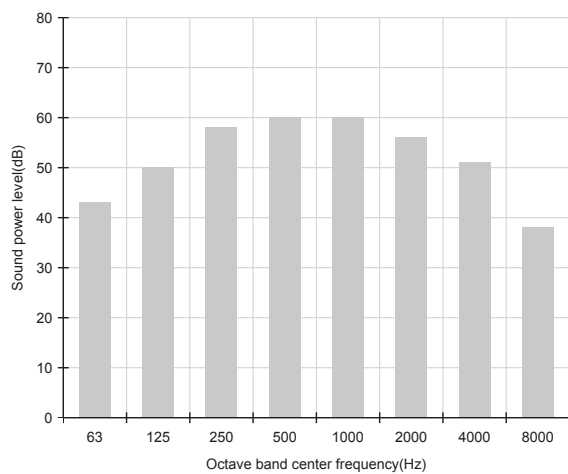
1) AR24HSFSAWKXEU (IDU : AR24HSFSAWKNEU)



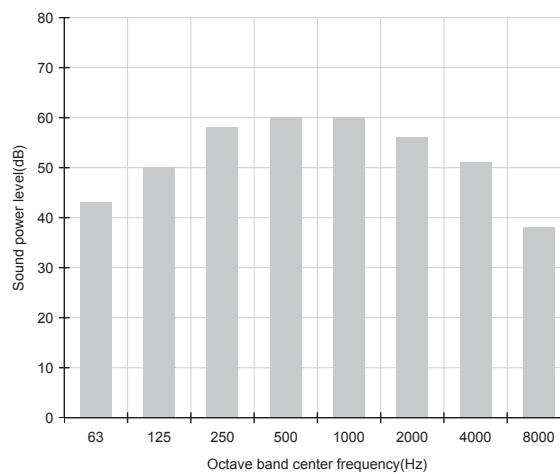
2) AR24HSSDBWKXEU (IDU : AR24HSSDBWKNEU)



3) AR24JSFNCWKXEU (IDU : AR24JSFNCWKNEU)



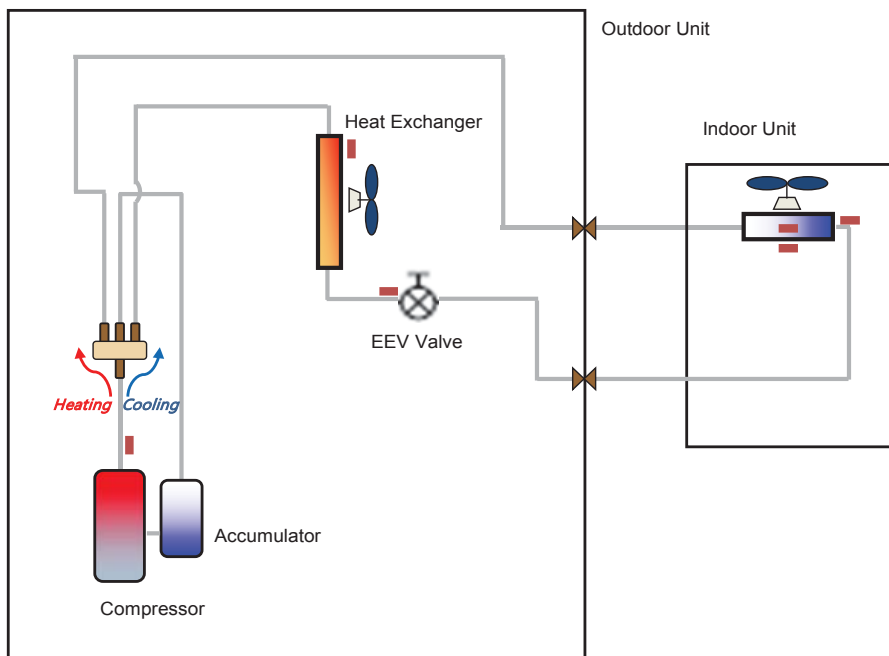
4) AR24JSFSBURXEU (IDU : AR24JSFSBURNEU)



# 12 Cycle diagram

## Outdoor

AR09JSPFAWKXEU, AR09JSPFBWKXEU, AR09HSSDAWKXEU, AR09HSSDBWKXEU, AR09HSFSBWKXET, AR09HSFSBWKXZE, AR09JSFSBURXET, AR09HSFNBWKXET, AR09HSFNMWKXZE, AR09JSFNCWKXET, AR09JSFNCWKXZE, AR12JSPFAWKXEU, AR12JSPFBWKXEU, AR12HSSDAWKXEU, AR12HSSDBWKXEU, AR12HSFSAWKXET, AR12HSFSAWKXZE, AR12JSFSBURXET, AR12HSFNBWKXET, AR12HSFNMWKXZE, AR12JSFNCWKXET, AR12JSFNCWKXZE, AR18HSSDBWKXEU, AR18HSFSAWKXEU, AR18JSFSBURXEU, AR18HSFNBWKXEU, AR18JSFNCWKXEU, AR24HSSDBWKXEU, AR24HSFSAWKXEU, AR24JSFSBURXEU, AR24HSFNBWKXEU, AR24JSFNCWKXEU



| Category       |             | Symbol                                                                              | Description                      |
|----------------|-------------|-------------------------------------------------------------------------------------|----------------------------------|
| Compressor     |             |  | Rotary Compressor                |
| Accumulator    |             |  | Accumulator                      |
| Heat Exchanger |             |  | Condensing/Evaporating unit(FMC) |
| Blower         |             |  | Cross Fan/Propeller Fan          |
| Expansion      |             |  | EEV Valve                        |
| Valve          |             |  | Service valve                    |
|                |             |  | 4-way valve                      |
| Sensor         | Temperature |  | Pipe/Air Temperature Sensor      |

# 13 Dimensional drawing

## Outdoor

AR09HSFNBWKXET, AR09HSFNMWKXZE, AR09HSFSBWKXET, AR09HSFSBWKXZE, AR09JSFNCWKXET, AR09JSFNCWKXZE, AR09JSFSBURXET  
AR12HSFNBWKXET, AR12HSFNMWKXZE, AR12HSFSAWKXET, AR12HSFSAWKXZE, AR12JSFNCWKXET, AR12JSFNCWKXZE, AR12JSFSBURXET

Units : mm / inches

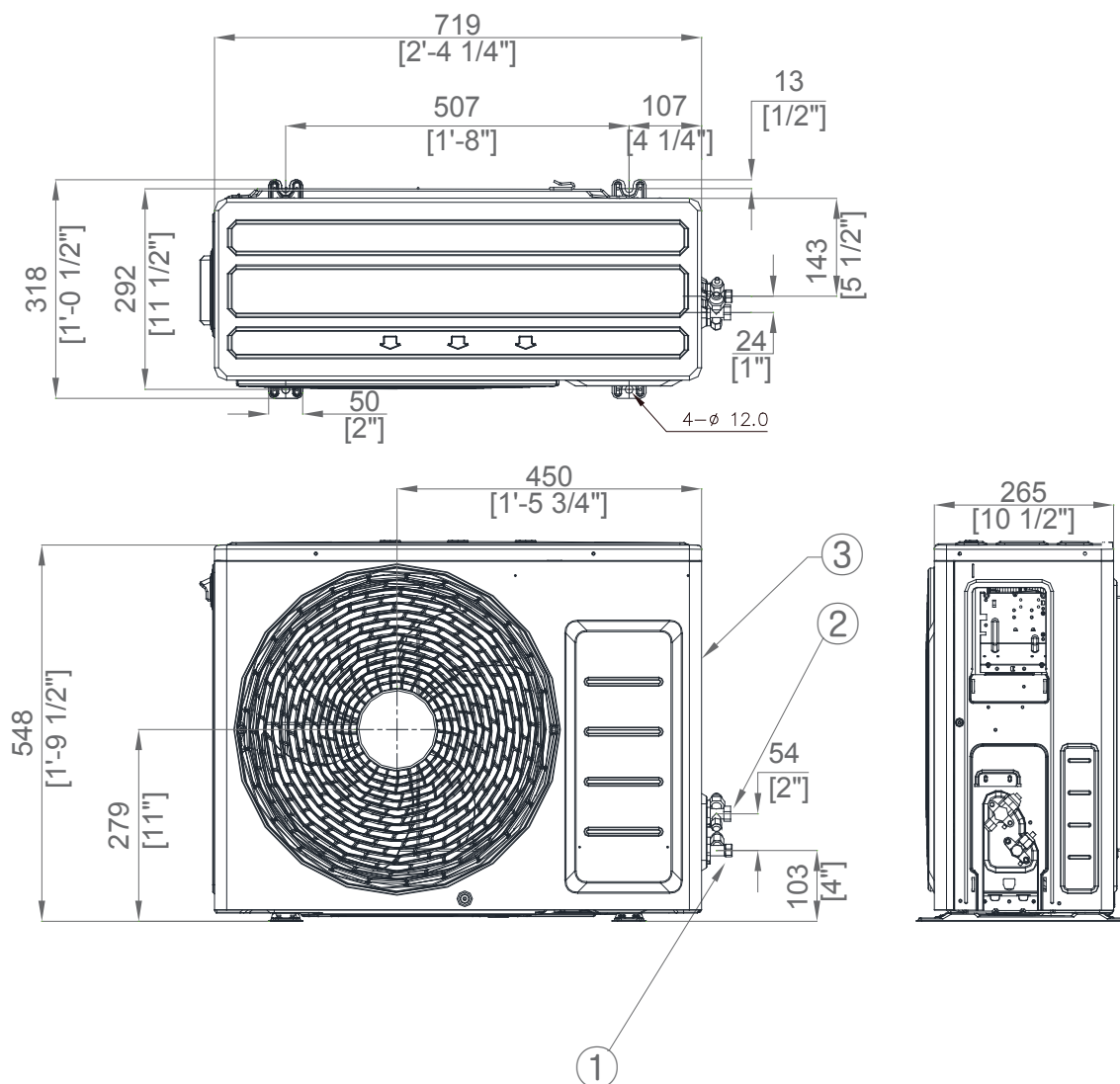


Table of descriptions

|   |                               |    |  |
|---|-------------------------------|----|--|
| 1 | Refrigerant gas pipe          | 7  |  |
| 2 | Refrigerant liquid pipe       | 8  |  |
| 3 | Power & Comm. wiring conduits | 9  |  |
| 4 |                               | 10 |  |
| 5 |                               | 11 |  |
| 6 |                               | 12 |  |

# 13 Dimensional drawing

## Outdoor

AR09HSSDAWKXEU, AR09HSSDBWKXEU, AR09JSPFAWKXEU, AR09JSPFBWKXEU, AR12HSSDAWKXEU, AR12HSSDBWKXEU, AR12JSPFAWKXEU, AR12JSPFBWKXEU

Units : mm / inches

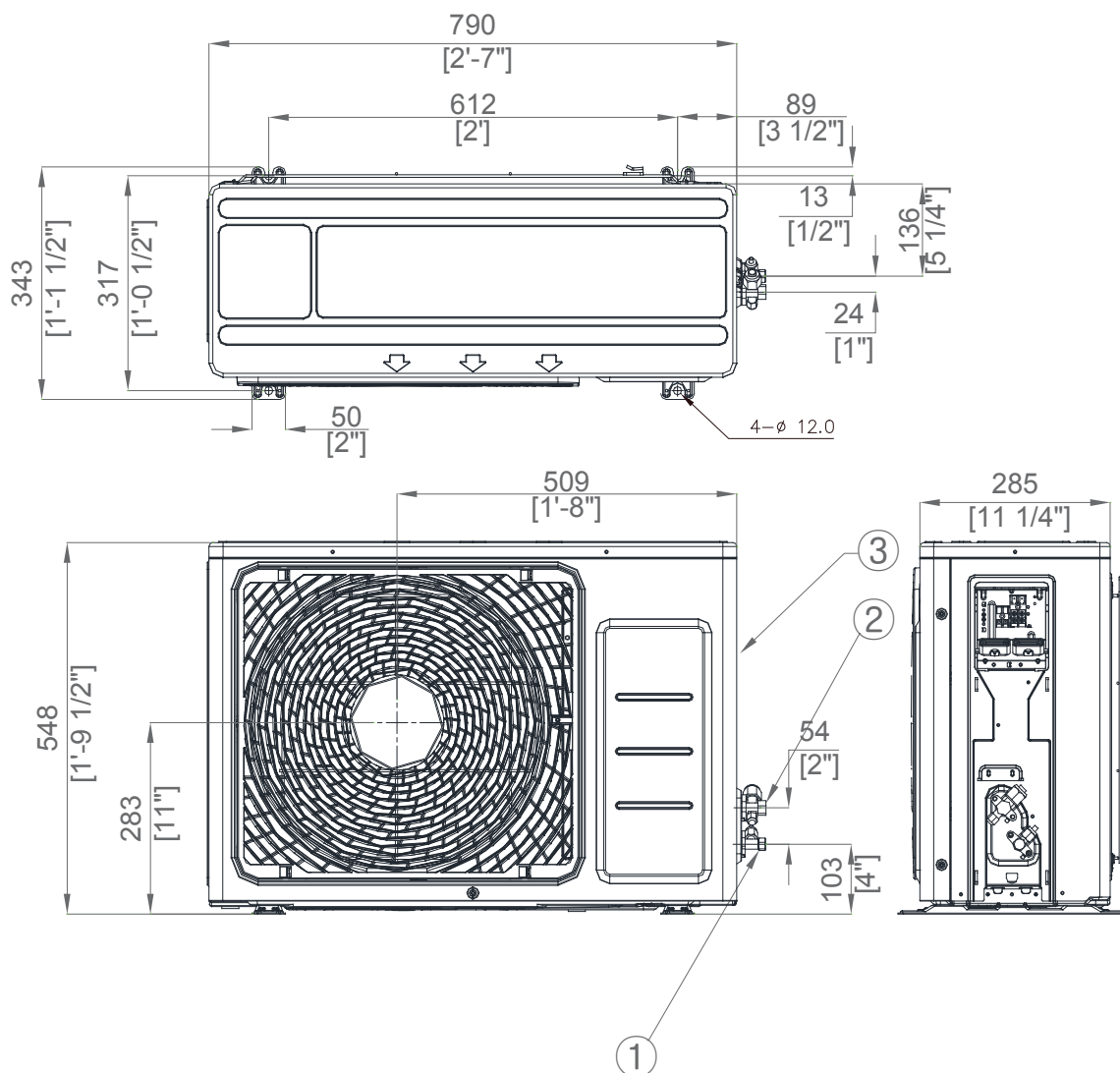


Table of descriptions

|   |                               |    |  |
|---|-------------------------------|----|--|
| 1 | Refrigerant gas pipe          | 7  |  |
| 2 | Refrigerant liquid pipe       | 8  |  |
| 3 | Power & Comm. wiring conduits | 9  |  |
| 4 |                               | 10 |  |
| 5 |                               | 11 |  |
| 6 |                               | 12 |  |

# 13 Dimensional drawing

## Outdoor

AR18HSFNBWKXEU, AR18HSFSAWKXEU, AR18JSFNCWKXEU, AR18JSFSBURXEU

Units : mm / inches

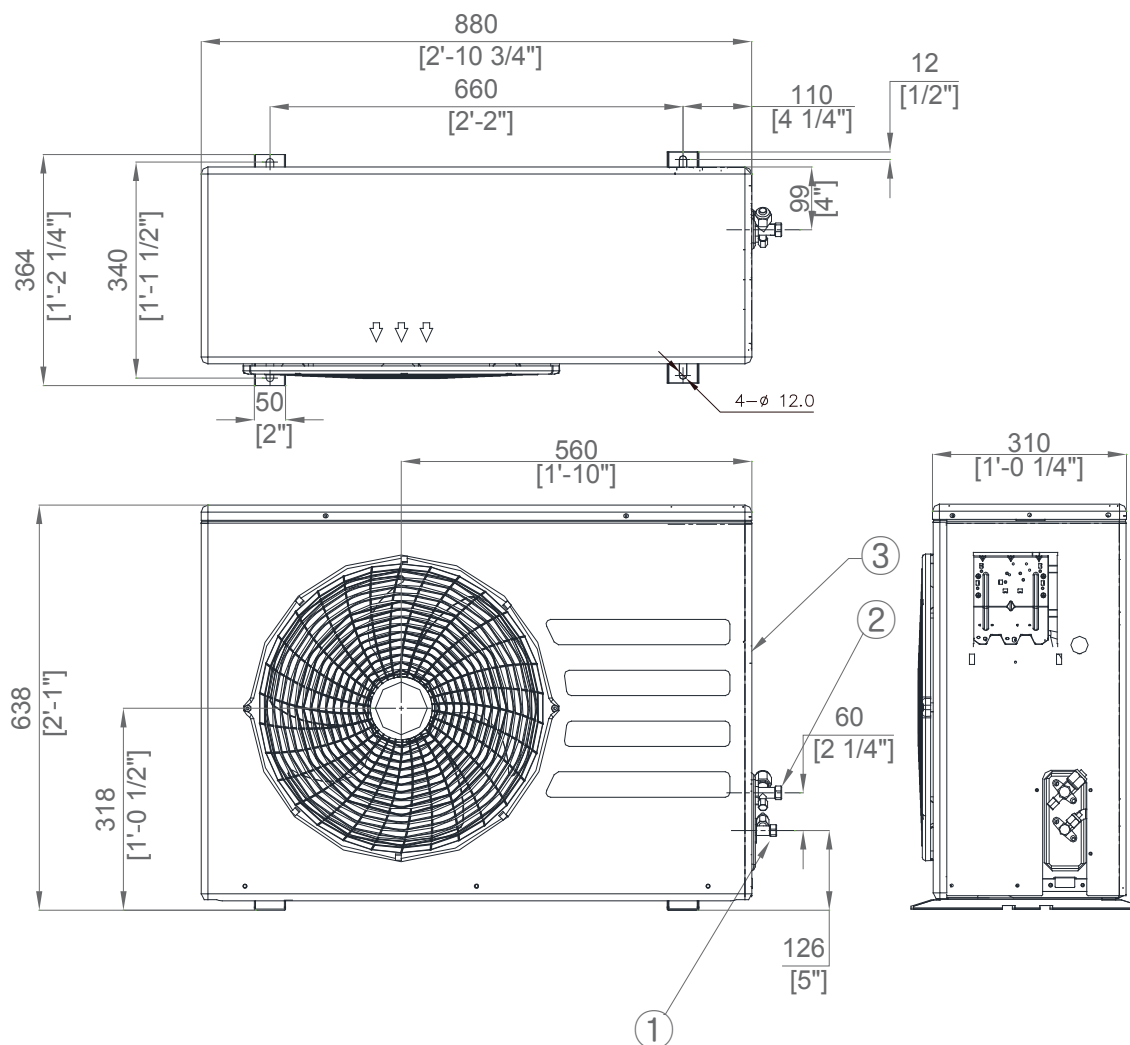


Table of descriptions

|   |                               |    |  |
|---|-------------------------------|----|--|
| 1 | Refrigerant gas pipe          | 7  |  |
| 2 | Refrigerant liquid pipe       | 8  |  |
| 3 | Power & Comm. wiring conduits | 9  |  |
| 4 |                               | 10 |  |
| 5 |                               | 11 |  |
| 6 |                               | 12 |  |

# 13 Dimensional drawing

## Outdoor

AR18HSSDBWIXEU, AR24HSFNBWIXEU, AR24HSFSAWIXEU, AR24HSSDBWIXEU, AR24JSFNCWIXEU, AR24JSFSBURXEU

Units : mm / inches

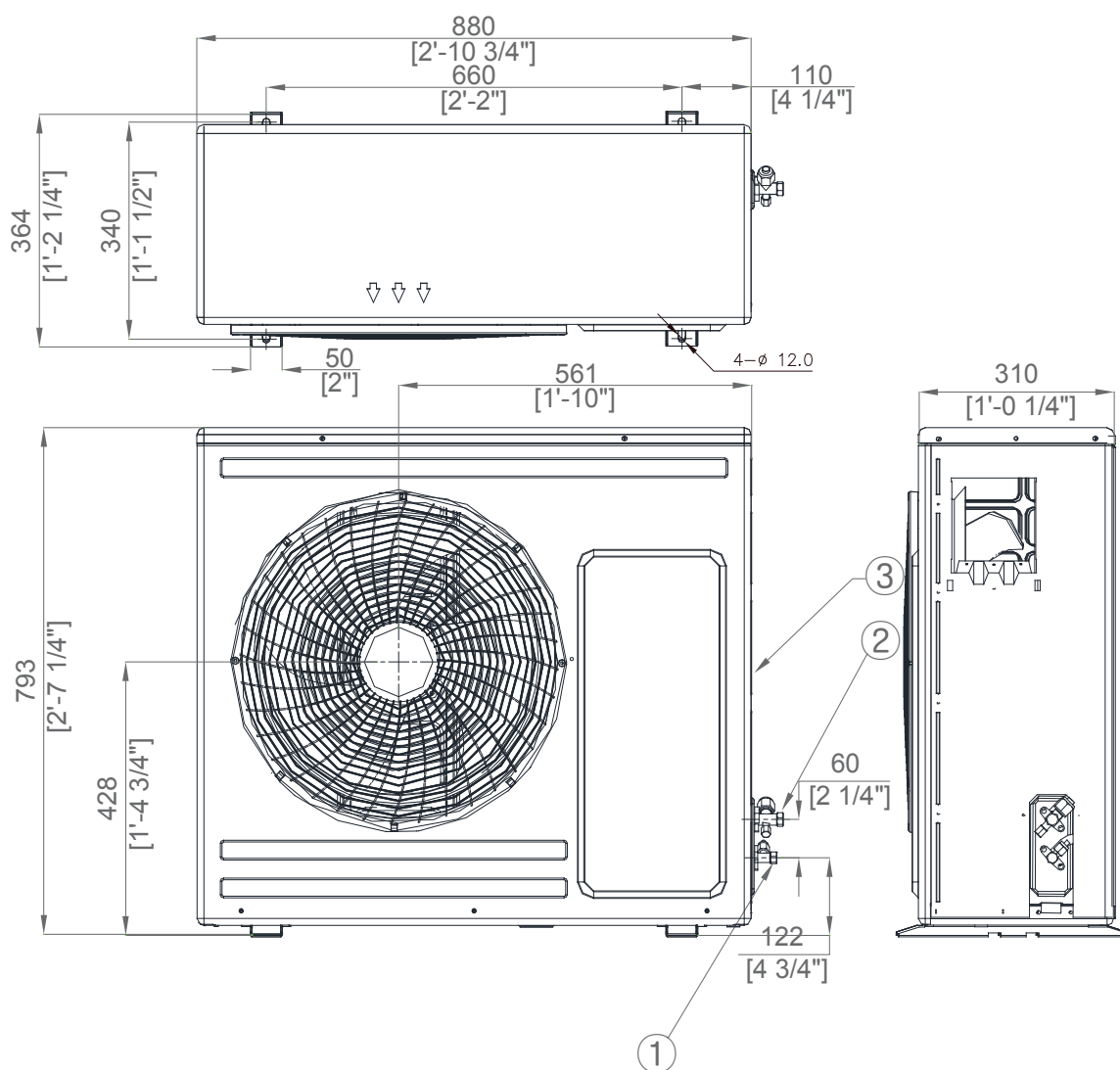


Table of descriptions

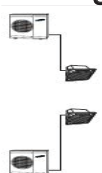
|   |                               |    |  |
|---|-------------------------------|----|--|
| 1 | Refrigerant gas pipe          | 7  |  |
| 2 | Refrigerant liquid pipe       | 8  |  |
| 3 | Power & Comm. wiring conduits | 9  |  |
| 4 |                               | 10 |  |
| 5 |                               | 11 |  |
| 6 |                               | 12 |  |

# 14 Capacity correction

## Outdoor

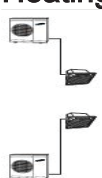
AR09JSPFAWK/EU, AR09JSPFBWK/EU, AR09HSSDAWK/EU, AR09HSSDBWK/EU, AR09HSFSBWK/ET  
AR09HSFSBWK/ZE, AR09JSFSBUR/ET, AR09HSFNBWK/ET, AR09HSFNMWK/ZE, AR09JSFNCWK/ET  
AR09JSFNCWK/ZE, AR12JSPFAWK/EU, AR12JSPFBWK/EU, AR12HSSDAWK/EU, AR12HSSDBWK/EU  
AR12HSFSAWK/ET, AR12HSFSAWK/ZE, AR12JSFSBUR/ET, AR12HSFNBWK/ET, AR12HSFNMWK/ZE  
AR12JSFNCWK/ET, AR12JSFNCWK/ZE

## Cooling



|                      |    | Pipe Length (m) |      |      |      |
|----------------------|----|-----------------|------|------|------|
|                      |    | 5               | 10   | 12   | 15   |
| Level Difference (m) | 7  | -               | 0.96 | 0.94 | 0.91 |
|                      | 5  | 0.99            | 0.97 | 0.95 | 0.92 |
|                      | 0  | 1.00            | 0.98 | 0.96 | 0.93 |
|                      | -5 | 0.99            | 0.97 | 0.95 | 0.92 |
|                      | -7 | -               | 0.96 | 0.94 | 0.91 |

## Heating



|                      |    | Pipe Length (m) |      |      |      |
|----------------------|----|-----------------|------|------|------|
|                      |    | 5               | 10   | 12   | 15   |
| Level Difference (m) | 7  | -               | 0.96 | 0.94 | 0.91 |
|                      | 5  | 0.99            | 0.97 | 0.95 | 0.92 |
|                      | 0  | 1.00            | 0.98 | 0.96 | 0.93 |
|                      | -5 | 0.99            | 0.97 | 0.95 | 0.92 |
|                      | -7 | -               | 0.96 | 0.94 | 0.91 |

AR18HSSDBWK/EU, AR18HSFSAWK/EU, AR18JSFSBUR/EU, AR18HSFNBWK/EU, AR18JSFNCWK/EU  
AR24HSSDBWK/EU, AR24HSFSAWK/EU, AR24JSFSBUR/EU, AR24HSFNBWK/EU, AR24JSFNCWK/EU

## Cooling



|                      |     | Pipe Length (m) |      |      |      |      |      |      |
|----------------------|-----|-----------------|------|------|------|------|------|------|
|                      |     | 5               | 10   | 12   | 15   | 20   | 25   | 30   |
| Level Difference (m) | 15  | -               | -    | -    | 0.92 | 0.90 | 0.88 | 0.86 |
|                      | 10  | -               | 0.95 | 0.94 | 0.93 | 0.91 | 0.89 | 0.87 |
|                      | 7   | -               | 0.96 | 0.95 | 0.94 | 0.92 | 0.90 | 0.88 |
|                      | 5   | 0.99            | 0.97 | 0.96 | 0.95 | 0.93 | 0.91 | 0.89 |
|                      | 0   | 1.00            | 0.98 | 0.97 | 0.96 | 0.94 | 0.92 | 0.90 |
|                      | -5  | 0.99            | 0.97 | 0.96 | 0.95 | 0.93 | 0.91 | 0.89 |
|                      | -7  | -               | 0.96 | 0.95 | 0.94 | 0.92 | 0.90 | 0.88 |
|                      | -10 | -               | 0.95 | 0.94 | 0.93 | 0.91 | 0.89 | 0.87 |
|                      | -15 | -               | -    | -    | 0.92 | 0.90 | 0.88 | 0.86 |

## Heating

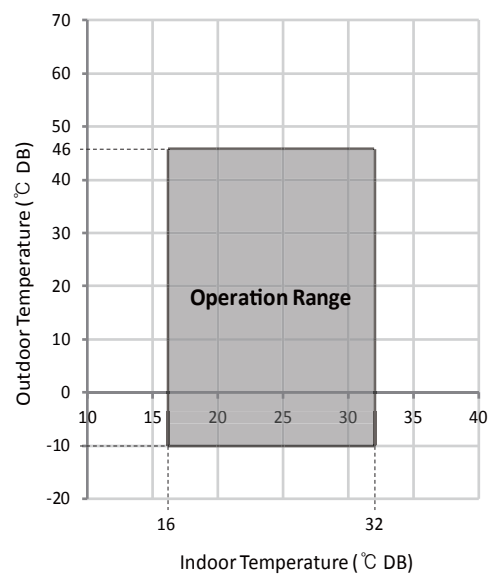


|                      |     | Pipe Length (m) |      |      |      |      |      |      |
|----------------------|-----|-----------------|------|------|------|------|------|------|
|                      |     | 5               | 10   | 12   | 15   | 20   | 25   | 30   |
| Level Difference (m) | 15  | -               | -    | -    | 0.92 | 0.90 | 0.88 | 0.86 |
|                      | 10  | -               | 0.95 | 0.94 | 0.93 | 0.91 | 0.89 | 0.87 |
|                      | 7   | -               | 0.96 | 0.95 | 0.94 | 0.92 | 0.90 | 0.88 |
|                      | 5   | 0.99            | 0.97 | 0.96 | 0.95 | 0.93 | 0.91 | 0.89 |
|                      | 0   | 1.00            | 0.98 | 0.97 | 0.96 | 0.94 | 0.92 | 0.90 |
|                      | -5  | 0.99            | 0.97 | 0.96 | 0.95 | 0.93 | 0.91 | 0.89 |
|                      | -7  | -               | 0.96 | 0.95 | 0.94 | 0.92 | 0.90 | 0.88 |
|                      | -10 | -               | 0.95 | 0.94 | 0.93 | 0.91 | 0.89 | 0.87 |
|                      | -15 | -               | -    | -    | 0.92 | 0.90 | 0.88 | 0.86 |

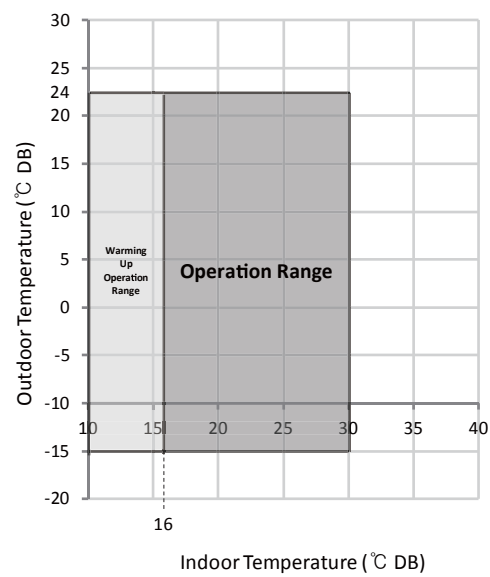
15

Operation limit

Cooling



Heating



2015.01



**Samsung Electronics Co., LTD.**  
**B2B PM / SE**

Head Office (Suwon Korea) 129, Samsung-Ro, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 443-742

Website : [www.samsung.com](http://www.samsung.com) Email : [airconditioner@samsung.com](mailto:airconditioner@samsung.com)

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