

History

| Version | Modification | Date | Remark |
|---------|---|------------|--------|
| Ver.1.0 | Released 2021 CAC Console for North America | 21. 09. 10 | |

Features & Benefits

CAC - World-class energy efficiency

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

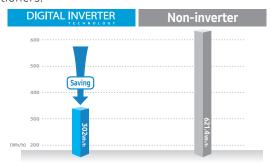
Featuring a suite of energy-optimizing technologies, Samsung CAC Single delivers top-class energy efficiency to support business in saving costs and the environment.

Quick, efficient heating and cooling

Smart inverter technology offers powerful, quick cooling and heating with minimal electricity consumption, which means real cost savings and less energy waste.

Up to 50 percent less energy use

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



Wind-Free Cooling with Micro holes

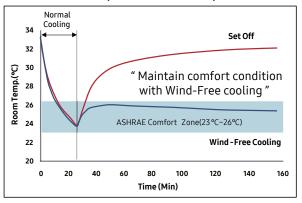
- The Wind-Free Air conditioner pushes air out through 15,000 micro holes in the panel, producing a dispersed and gentle flow of air actually defined as "still air" and the key here is all of those holes create a still, cooled air flow that infiltrates the room gently and softly.
- ** Still Air condition : According to ASHRAE, If velocity of wind is lower than 0.15m/s, People can not detect wind. And they define that condition is "Still Air"

No Direct Wind & Cold Draft



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

[Comparison of Room Temp.]



* Internal Test (14.0kW Model @ 122m²)

Features & Benefits

CAC Single - Superior performance

Stabilize the atmosphere with broad temperature allowance and control

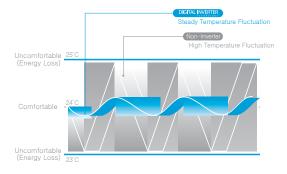
Samsung is dedicated to supporting comfortable living and working environments based on the strength of its technologies. With a single unit, CAC Single delivers reliable comfort and control over multiple areas to ensure a pleasant atmosphere in any climate.

Wide temperature performance

No matter how extreme the temperature, the highperforming CAC Single can handle the conditionwithout the need for an additional unit. Featuring a wide temperature allowance, it can cool in heat of up to 50 and provide warmth in the freezing cold of -20°C to ensure a constant and comfortable home environment.

Ideal comfort in minutes

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



Versatile piping installation

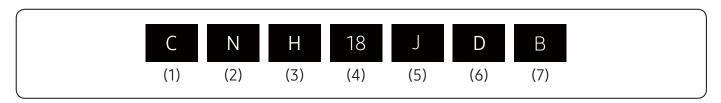
CAC Single outdoor units offer a selection of pipe directions. The internal pipe connection ports allow four different pipe directions, supporting a neater, more organized-looking unit upon installation.



Nomenclature

US Code

Model Name



(1) Classification

| С | CAC |
|---|-----|
| | |

(5-2) Feature1 (Outdoor Unit)

| Α | Inv+Side+General Temp |
|---|------------------------|
| S | Inv+Side+Low Temp |
| Q | Inv+Side+Tropical Temp |
| F | Inv+Ton+Tronical Temn |

(2) Product Type

| N | Indoor Unit |
|---|--------------|
| Χ | Outdoor Unit |

(6) Feature

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

(3) Mode

| Α | Universal |
|---|--------------|
| С | Cooling Only |
| Н | Heat Pump |

(4) Capacity

| X1,000 Btu/h (2 digits) |
|-------------------------|
| |

(7) Version

| В | 2022 |
|---|------|

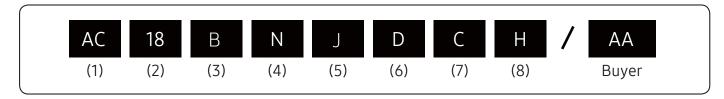
(5-1) Product Notation (Indoor Unit)

| 1 | 1 Way Cassette / Wind-Free 1Way Cassette |
|---|--|
| Ν | (Wind-Free) 4 Way Cassette (600x600) |
| 4 | (Wind-Free) 4 Way Cassette |
| 6 | 360 Cassette |
| L | LSP Duct |
| Н | HSP Duct |
| С | Ceiling |
| J | Console |
| Α | AR9500 (Wall Mounted) |
| Т | MAX4 (Wall Mounted) |
| Z | Multi-position AHU |

Nomenclature

Indoor Unit

Model Name



(1) Classification

| AC | CAC |
|--------------|-------------------------|
| | |
| | |
| (2) Capacity | |
| | X1,000 Btu/h (3 digits) |
| | |
| | |
| (3) Version | |
| В | 2022 |

(5) Product Notation

| 1 | 1 Way Cassette / Wind-Free 1Way Cassette |
|---|--|
| N | (Wind-Free) 4 Way Cassette (600x600) |
| 4 | (Wind-Free) 4 Way Cassette |
| 6 | 360 Cassette |
| L | LSP Duct |
| Н | HSP Duct |
| С | Ceiling |
| J | Console |
| Α | AR9500 (Wall Mounted) |
| Т | MAX4 (Wall Mounted) |
| Z | Multi-position AHU |

(4) Product Type

| N | Indoor Unit |
|---|--------------|
| Χ | Outdoor Unit |

(6) Feature

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

(7) Rating Voltage

|--|

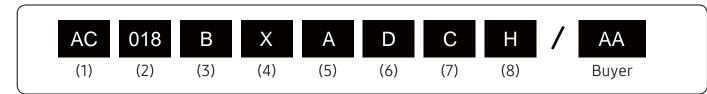
(8) Mode

| С | Cooling Only | | |
|---|--------------|--|--|
| Н | Heat Pump | | |

Nomenclature

Outdoor Unit

Model Name



(1) Classification

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

(5) Feature1

| Α | Inv+Side+General Temp | |
|---|------------------------|--|
| S | Inv+Side+Low Temp | |
| Q | Inv+Side+Tropical Temp | |
| F | Inv+Ton+Tronical Temn | |

(2) Capacity

| x 1000 | Btu/h (3 dig | its) | |
|--------|--------------|------|--|
| | | | |
| | | | |
| | | | |

(6) Feature2

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

(3) Version

| В | 2022 |
|---|------|

(7) Rating Voltage

| С | 1Ф, 208~230V, 60Hz | |
|---|--------------------|--|
| Н | 3Ф, 400V, 60Hz | |

(4) Product Type

| N | Indoor Unit (NASA) |
|---|---------------------|
| Χ | Outdoor Unit (NASA) |

(8) Mode

| Н | Heat Pump(R410A) | | |
|---|---------------------|--|--|
| С | Cooling Only(R410A) | | |
| E | Heat Pump(R22) | | |
| D | Cooling Only(R22) | | |

Line-up

Indoor unit

| | Capacity (kBtu/h) | | |
|---------|--------------------|----|----|
| Model | 9 | 12 | 18 |
| Console | | | |

Outdoor Unit

| | | Capacity (kBtu/h) | |
|--------|---|--------------------|------------|
| Model | 9 | 12 | 18 |
| 1Phase | | | LAMBRAGE . |

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Console

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Features & Benefits

Console Type - Luxurious style and calm

Create an exquisite interior complemented by elegant design and quiet performance

The slim, elegant Samsung Console Type indoor unit is designed to perfectly fit spaces with high Consoles and numerous windows while maintaining an optimal indoor temperature. Samsung's console air conditioning solution makes any environment more pleasant and comfortable with features such as:

Two-way airflow

Featuring a 2-way air outlet, Samsung's console unit includes two separate air outlets for cooling and heating. The warmer air comes out from the bottom part of the air outlet to spread the warm air evenly throughout the room. Users stay cooler or warmer in every corner of the room.



Slim, low-profile design

Samsung's console type air conditioner is only 199 mm thick, the slimmest on the market, and its unobtrusive design easily integrates into any décor.

Stay-clean panel

The intelligently designed clean panel keeps dust from accumulating, so the unit and the room stay cleaner.

Sophisticated control

The touchscreen display delivers convenient control, and is an elegant example of functional art.



1. Specification

Console

| | amo | Indoor Unit | | | AC009BNJDCH/AA | AC012BNJDCH/AA | AC018BNJDCH/AA |
|----------------|--|--|-------------------------------------|--|--|---|--|
| Model Na | anne | Outdooru Unit | | | AC009BXADCH/AA | AC012BXADCH/AA | AC018BXADCH/AA |
| US Code | | Indoor Unit | | | CNH09JDB | CNH12JDB | CNH18JDB |
| 03 Code | | Outdooru Unit | | | CXH09ADB | CXH12ADB | CXH18ADB |
| | Mode | | | - | Heat Pump | Heat Pump | Heat Pump |
| | | | | kW | 0.91 / 2.64 / 3.81 | 0.94 / 2.99 / 3.96 | 1.61 / 4.98 / 5.86 |
| | | | Cooling | Btu/h | 3,100 / 9,000 / 13,000 | 3,200 / 10,200 / 13,500 | 5,500 / 17,000 / 20,000 |
| | | Capacity | | US RT | 0.26 / 0.75 / 1.08 | 0.27 / 0.85 / 1.13 | 0.46 / 1.42 / 1.67 |
| | Performance | (Min/Std/Max) | | kW | 0.79 / 2.96 / 5.42 | 0.82 / 3.81 / 5.57 | 1.17 / 5.57 / 6.15 |
| | | (Mini, Sta, Max, | Heating | Btu/h | 2,700 / 10,100 / 18,500 | 2,800 / 13,000 / 19,000 | 4,000 / 19,000 / 21,000 |
| | | | ricating | US RT | 0.23 / 0.84 / 1.54 | 0.23 / 1.08 / 1.58 | 0.33 / 1.58 / 1.75 |
| | | Power Input | Cooling | 03 K1 | 0.18 / 0.72 / 1.41 | 0.18 / 0.85 / 1.42 | 0.37 / 1.70 / 2.32 |
| | | (Min/Std/Max) | Heating | kW | 0.17 / 0.87 / 2.32 | 0.18 / 0.85 / 1.42 | 0.37 / 1.70 / 2.32 |
| | | | | | | | |
| | Power | Current Input | Cooling | А | 1.2 / 3.6 / 6.3 | 1.2 / 4.0 / 6.3 | 2.2 / 7.7 / 10.3 |
| | | (Min/Std/Max) | Heating | | 1.1 / 4.2 / 10.3 | 1.1 / 5.2 / 10.6 | 2.0 / 8.6 / 13.3 |
| | | Current | MCA | A | 9.3 | 9.3 | 18.5 |
| | | | MFA | A | 15 | 15 | 25 |
| | | EER | Cooling | - | 3.66 | 3.52 | 2.93 |
| | | | Cooling(US) | (Btu/h)/W | 12.50 | 12.00 | 10.00 |
| | Efficiency | СОР | Heating | W/W | 3.40 | 3.30 | 2.90 |
| Cuctom | | SEER | | - | 20.1 | 20.1 | 18.4 |
| System | | HSPF | | - | 10.2 | 9 | 8.5 |
| | | Liquid Dire | | Туре | Flare | Flare | Flare |
| | | Liquid Pipe | | Φ, mm(inch) | 6.35 (1/4) | 6.35 (1/4) | 6.35 (1/4) |
| | | | | Type | Flare | Flare | Flare |
| | | Gas Pipe | | Φ, mm(inch) | 9.52 (3/8) | 9.52 (3/8) | 12.7 (1/2) |
| | Pipe | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes |
| | Connections | Treat modification | Standard | m (ft) | 7.5 (24.6) | 7.5 (24.6) | 7.5 (24.6) |
| | | Pipe Length | Max. | m (ft) | 20 (65.6) | 20 (65.6) | 20 (65.6) |
| | | (ODU-IDU) | | | | | |
| | | (000-100) | Elevation | m (ft) | 15 (49.2) | 15 (49.2) | 15 (49.2) |
| | | | Chargeless | m (ft) | 7.5 (24.6) | 7.5 (24.6) | 7.5 (24.6) |
| | Wiring | Communication | Min. | mm ² | 0.75 | 0.75 | 0.75 |
| | Connections | | Remark | - | F1,F2 | F1,F2 | F1,F2 |
| | | Туре | | - | R410A | R410A | R410A |
| | Refrigerant | Factory Charging | | kg | 1.2 | 1.2 | 2 |
| | | l actory charging | | lbs | 2.6 | 2.6 | 4.4 |
| | Option Code | Standard | | - | 0193FF-1930B6-271A23-370400 | 0193FF-1930D8-272328-370500 | 0193FF-19240A-20343A-370408 |
| | Toption Code | Diamaara | | | | | |
| | | Install | | - | 020010-100000-200000-300000 | 020010-100000-200000-300000 | 020010-100000-200000-300000 |
| | Power Supply | | | - Ф,#,V,Hz | 020010-100000-200000-300000 | 020010-100000-200000-300000 | |
| | Power Supply | | | - Ф,#,V,Hz - | | | 020010-100000-200000-300000 |
| | Power Supply Heat | Install Type | Fin | - Ф,#,V,Hz - - | 1,2,208-230,60 | 1,2,208-230,60 | 020010-100000-200000-300000 |
| | Heat | Install | | - | 1,2,208-230,60 Fin & Tube Al | 1,2,208-230,60 Fin & Tube Al | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al |
| | | Install Type | Fin Tube | - | 1,2,208-230,60 Fin & Tube Al Cu | 1,2,208-230,60 Fin & Tube Al Cu | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu |
| | Heat | Type Material Fin Treatment | | - | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile |
| | Heat | Type Material Fin Treatment Type | | - - - - | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo |
| | Heat | Type Material Fin Treatment | | - - - - - EA | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 |
| | Heat Exchanger | Type Material Fin Treatment Type Quantity | Tube | - - - - EA m ³ /min | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 |
| | Heat | Type Material Fin Treatment Type | | - - - - EA m ³ /min ft ³ /min | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 |
| | Heat Exchanger | Type Material Fin Treatment Type Quantity Air Flow Rate | Tube | - - - - EA m ³ /min | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 |
| Indoor | Heat Exchanger | Type Material Fin Treatment Type Quantity Air Flow Rate External Static | Tube | - - - - EA m ³ /min ft ³ /min | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 |
| | Heat Exchanger | Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue | Tube | - - - - - EA m ³ /min ft ³ /min | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 |
| | Heat Exchanger | Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type | Tube | EA m³/min ft³/min l/s In Wg | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC |
| | Heat Exchanger Fan | Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output | Tube | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 |
| | Heat Exchanger | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe | Tube | EA m³/min ft³/min l/s In Wg | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC |
| | Heat Exchanger Fan Fan Motor Drain | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure | Tube | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC |
| | Heat Exchanger Fan | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level | H/M/L Min/Std/Max H/M/L(Silent) | EA m³/min ft³/min l/s In Wg W x n Φ, mm dB(A) | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 |
| | Heat Exchanger Fan Fan Motor Drain | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level Sound Power Level | H/M/L Min/Std/Max H/M/L(Silent) | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 35/31/29/24 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 38/35/33/24 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)352/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 43/39/35/32 |
| | Heat Exchanger Fan Fan Motor Drain | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level Sound Power Level Net Weight | H/M/L Min/Std/Max H/M/L(Silent) | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 35/31/29/24 53 15.7 (34.6) | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 38/35/33/24 55 15.7 (34.6) | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)352/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 |
| | Heat Exchanger Fan Fan Motor Drain Sound | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level Sound Power Level | H/M/L Min/Std/Max H/M/L(Silent) | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 35/31/29/24 53 15.7 (34.6) 20.0 (44.1) | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 38/35/33/24 55 15.7 (34.6) 20.0 (44.1) | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 43/39/35/32 60 15.9 (35.1) 20.2 (44.5) |
| | Heat Exchanger Fan Fan Motor Drain | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level Sound Power Level Net Weight Gross Weight | H/M/L Min/Std/Max H/M/L(Silent) | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 35/31/29/24 53 15.7 (34.6) | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 38/35/33/24 55 15.7 (34.6) | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)352/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 43/39/35/32 60 15.9 (35.1) |
| Indoor Unit | Heat Exchanger Fan Fan Motor Drain Sound | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level Sound Power Level Net Weight | H/M/L Min/Std/Max H/M/L(Silent) | | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 35/31/29/24 53 15.7 (34.6) 20.0 (44.1) | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 38/35/33/24 55 15.7 (34.6) 20.0 (44.1) | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 43/39/35/32 60 15.9 (35.1) 20.2 (44.5) |
| | Heat Exchanger Fan Motor Drain Sound External | Install Type Material Fin Treatment Type Quantity Air Flow Rate External Static Pressue Type Output Drain Pipe Sound Pressure Level Sound Power Level Net Weight Gross Weight | H/M/L Min/Std/Max H/M/L(Silent) el | EA m³/min ft³/min l/s In Wg W x n Φ, mm dB(A) kg(lbs) kg(lbs) mm | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)7.5/6.8/6.0, (H)8.5/7.2/6.2 (C)265/240/212, (H)300/254/219 (C)125/113/100, (H)142/120/103 - BLDC 35 x 1 35/31/29/24 53 15.7 (34.6) 20.0 (44.1) 720 x 199 x 620 | 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)8.5/7.2/6.2, (H)9.0/8.2/7.2 (C)300/254/219, (H)318/290/254 (C)142/120/103, (H)150/137/120 - BLDC 35 x 1 38/35/33/24 55 15.7 (34.6) 20.0 (44.1) 720 x 199 x 620 | 020010-100000-200000-300000 1,2,208-230,60 Fin & Tube Al Cu Green Hydrophile Turbo 1 (C)9.4/8.4/7.4, (H)11.0/9.7/8.5 (C)332/297/261, (H)388/343/300 (C)157/140/123, (H)183/162/142 - BLDC 35 x 1 43/39/35/32 60 15.9 (35.1) 20.2 (44.5) 720 x 199 x 620 |

1. Specification

Console

| Model Na | mo | Indoor Unit | | | AC009BNJDCH/AA | AC012BNJDCH/AA | AC018BNJDCH/AA |
|-----------|---------------------------|-------------------------|----------------|------------|-----------------------|-----------------------|-----------------------|
| Model INa | me | Outdooru Unit | | | AC009BXADCH/AA | AC012BXADCH/AA | AC018BXADCH/AA |
| JS Code | | Indoor Unit | | | CNH09JDB | CNH12JDB | CNH18JDB |
| 15 Code | | Outdooru Unit | | | CXH09ADB | CXH12ADB | CXH18ADB |
| | Casing | Material | | - | Plastic | Plastic | Plastic |
| | Control | Infrared remote c | ontrol | - | AR-EH04U | AR-EH04U | AR-EH04U |
| ndoor | System | Wired remote con | itrol | - | MWR-WE13UN | MWR-WE13UN | MWR-WE13UN |
| | D | Drain Pump | | - | - | - | - |
| nit | Drain Pump | Max.lifting Height / Di | isplacement | in / gal/h | - | = | - |
| | Additional Accessories | Air Filter | | - | Removable / Washable | Removable / Washable | Removable / Washable |
| | Power Supply | | | Ф,#,V,Hz | 1,2,208-230,60 | 1,2,208-230,60 | 1,2,208-230,60 |
| | 117 | Туре | | - | Fin & Tube | Fin & Tube | Fin & Tube |
| | Heat | ** | Fin | - | Al | Al | Al |
| | Exchanger | Material | Tube | - | Cu | Cu | Cu |
| | . 5 | Fin Treatment | 1.222 | - | Green Hydrophile | Green Hydrophile | Anti-Corrosion |
| | Compressor | Model | | - | KTN130D42UFR | KTN130D42UFR | UG8T265FXAEW |
| | | Type | | - | BLDC | BLDC | Twin BLDC |
| | | Output | | kW | 1.04 | 1.04 | 2.32 |
| | | Oil | Туре | - | POE | POE | POE |
| | | | Initial Charge | cc (fl oz) | 350 | 350 | 700 |
| | | Type | | - | Propeller | Propeller | Propeller |
| | | Discharge direction | on | - | Front | Front | Front |
| | _ | Quantity | | EA | 1 | 1 | 1 |
| | Fan | | | m³/min | 30 | 30 | 61 |
| utdoor | | Air Flow Rate | H/M/L | ft³/min | 1,060 | 1,060 | 2,154 |
| nit | | | | l/s | 500 | 500 | 1,017 |
| | | Туре | | - | BLDC | BLDC | BLDC |
| | Fan Motor | Output | | Wxn | 40 x 1 | 40 x 1 | 125 x 1 |
| | | Sound Pressure | Cooling | dB(A) | 46 | 47 | 48 |
| | Sound | Level | Heating | dB(A) | 47 | 48 | 48 |
| | | Sound Power Leve | | dB(A) | 59 | 61 | 62 |
| | | Net Weight | | kg(lbs) | 33.3 (74.3) | 33.3 (74.3) | 53.7 (118.4) |
| | | Gross Weight | | kg(lbs) | 35.6 (78.5) | 35.6 (78.5) | 57.7 (127.2) |
| | External | Not Dimessiss (| WALLAD) | mm | 790 x 548 x 285 | 790 x 548 x 285 | 880 x 798 x 310 |
| | Dimension | Net Dimensions (| WXHXD) | inch | 31.10 x 21.57 x 11.22 | 34.64 x 31.42 x 12.20 | |
| | | Caran Diagram | (M-11-D) | mm | 913 x 622 x 371 | 913 x 622 x 371 | 1,023 x 881 x 413 |
| | | Gross Dimensions | (WXHXD) | inch | 35.94 x 24.49 x 14.61 | 35.94 x 24.49 x 14.61 | 40.28 x 34.69 x 16.26 |
| | Casing | Material | Body | - | Steel | Steel | Steel |
| | Operating | Cooling | | °C (°F) | -18~50 (0~122) | -18~50 (0~122) | -18~50 (0~122) |
| | Temp. Range | Heating | | °C (°F) | -25~24 (-13~75) | -25~24 (-13~75) | -25~24 (-13~75) |



- Specification may be subject to change without prior notice.

 | Performances are based on the following test conditions.
 | Cooling: Indoor temperature: 80°F(26,7°C) DB, 67°F(19.4°C) WB, Outdoor temperature: 95°F(35°C) DB, 75°F(23.9°C) WB
 | Heating: Indoor temperature: 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature: 47°F(8.3°C) DB, 43°F(6.1°C) WB
 | Equivalent refrigerant piping length 5m(16.4ft), Level differences: 0m(0ft))
 | 20 Select wire size based on the value of MCA
 | 30 Sound pressure level is obtained in an anechoic room.
 | Sound pressure level is a relative value, depending on the distance and acoustic environment.
 | Sound pressure level may differ depending on operation condition.
 | dBA = A-weighted sound pressure level @Reference acoustic pressure 0 dB = 20uPa
 | 40 Sound power level is an absolute value that a sound source generates.
 | dBA = A-weighted sound power level |
 | Reference power: 1pW @Measured according to ISO 3741
 | MD These products contain R410A which is fluorinated greenhouse gas.

2. Summary Table

Console

Performance Characteristics

| | Net | | Capac | city | | Airflow | Carrad Duanasuma I arral | Cound Downson Lovel |
|------------------------------|-----------------|------|--------------------|--------------------|-----------|----------------------------|-------------------------------|---------------------|
| Model Code | Weight (lbs) | | Cooling (Btu/h) | Heating (Btu/h) | Fan Speed | (Cooling/Heating) (CFM) | Sound Pressure Level (dBA) | (dBA) |
| 6111100100 | | Max. | 13,000 | 18,500 | High | 265 / 300 | 35 | 53 |
| CNH09JDB (AC009BNJDCH/AA) | 34.6 | Std. | 9,000 | 10,100 | Mid | 240 / 254 | 31 | - |
| (ACOO7BIODEII/AA) | | Min. | 3,100 | 2,700 | Low | 212 / 219 | 29 | - |
| | | Max. | 13,500 | 19,000 | High | 300 / 318 | 38 | 55 |
| CNH12JDB (AC012BNJDCH/AA) | 34.6 | Std. | 10,200 | 13,000 | Mid | 254 / 290 | 35 | - |
| (ACUIZBINJUCH/AA) | | Min. | 3,200 | 2,800 | Low | 219 / 254 | 33 | - |
| 6) !! !40 ! D D | | Max. | 20,000 | 21,000 | High | 332 / 388 | 43 | 60 |
| CNH18JDB (AC018BNJDCH/AA) | 35.1 | Std. | 17,000 | 19,000 | Mid | 297 / 343 | 39 | - |
| (ACOTOBINDETI/AA) | | Min. | 5,500 | 4,000 | Low | 261 / 300 | 35 | - |



• Sound data is based on cooling operation.

Electric Characteristics

| Мо | del | | Outdoor U | nit | | Inp | ut Curren | t (Ampei | res) | Power | Supply |
|---------------------------|---------------------------|-------|------------|------|-----|---------|-----------|----------|-------|--------|--------|
| Indoorlinit | OutdoorUnit | Rated | Voltage | rang | e | Outdo | or Unit | Indoor | Total | MCA(A) | MOD(A) |
| Indoor Unit | Outdoor Unit | Hz | Voltz | Min. | Max | Cooling | Heating | Unit | Total | MCA(A) | MOP(A) |
| CNH09JDB (AC009BNJDCH/AA) | CXH09ADB (AC009BXADCH/AA) | 60 | 208 to 230 | 187 | 253 | 8.74 | 8.74 | 0.49 | 9.23 | 9.3 | 15 |
| CNH12JDB (AC012BNJDCH/AA) | , , , , , | | 208 to 230 | 187 | 253 | 8.74 | 8.74 | 0.49 | 9.23 | 9.3 | 15 |
| CNH18JDB (AC018BNJDCH/AA) | CXH18ADB (AC018BXADCH/AA) | 60 | 208 to 230 | 187 | 253 | 17.94 | 17.94 | 0.49 | 18.43 | 18.5 | 25 |



MCA: Minimum circuit amperesMFA: Maximum fuse amperes

• Select wire size based on the value of MCA

3. Capacity Table

Console

(1) CHN09JDB(AC009BNJDCH/AA) + CXH09ADB (AC009BXADCH/AA)

Cooling

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

| Outdoor | | | | | | | | ı | ndoor ' | Tempe | rature (| °F, DB | / WB) | | | | | | | | |
|----------|------|---------|------|------|---------|------|------|---------|---------|-------|----------|--------|-------|---------|------|------|---------|------|------|---------|------|
| Temp. | | 68 / 57 | | | 72 / 61 | | | 77 / 64 | | | 80 / 67 | | | 82 / 70 | | | 86 / 72 | | | 90 / 75 | |
| (°F, DB) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| (F, DB) | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 0 | 10.0 | 7.9 | 0.61 | 10.5 | 8.2 | 0.62 | 10.9 | 8.4 | 0.64 | 11.3 | 8.7 | 0.65 | 11.5 | 8.6 | 0.65 | 12.0 | 8.5 | 0.66 | 12.7 | 8.3 | 0.67 |
| 70 | 10.4 | 8.0 | 0.58 | 10.9 | 8.3 | 0.59 | 11.3 | 8.5 | 0.60 | 11.7 | 8.8 | 0.61 | 11.9 | 8.7 | 0.62 | 12.5 | 8.6 | 0.62 | 13.2 | 8.4 | 0.64 |
| 95 | 8.0 | 5.7 | 0.68 | 8.4 | 5.9 | 0.69 | 8.7 | 6.1 | 0.71 | 9.0 | 6.3 | 0.72 | 9.2 | 6.2 | 0.73 | 9.6 | 6.2 | 0.73 | 10.1 | 6.1 | 0.75 |
| 115 | 8.8 | 7.2 | 1.22 | 9.2 | 7.5 | 1.24 | 9.6 | 7.7 | 1.27 | 9.9 | 7.9 | 1.30 | 10.1 | 7.8 | 1.31 | 10.6 | 7.8 | 1.32 | 11.1 | 7.6 | 1.35 |
| 122 | 7.2 | 6.3 | 1.02 | 7.5 | 6.5 | 1.04 | 7.9 | 6.7 | 1.06 | 8.1 | 6.9 | 1.08 | 8.3 | 6.8 | 1.09 | 8.7 | 6.7 | 1.10 | 9.1 | 6.6 | 1.12 |

Heating

TC : Total Capacity, PI : Power Input

| Outdoor | | | | | Indo | or Tempera | ature (°F, D | B) | | | | |
|-------------|------|------|------|------|------|------------|--------------|------|------|------|------|------|
| Temperature | 6 | 1 | 6 | 4 | 6 | 8 | 7 | 0 | 2 | 2 | 2 | 4 |
| • | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| (°F, DB) | MBH | kW | MBH | kW | MBH | kW | MBH | kW | MBH | kW | MBH | kW |
| -13 | 6.4 | 1.27 | 6.3 | 1.26 | 6.2 | 1.24 | 6.2 | 1.23 | 6.1 | 1.22 | 6.1 | 1.21 |
| -4 | 8.7 | 1.62 | 8.6 | 1.60 | 8.5 | 1.59 | 8.4 | 1.57 | 8.3 | 1.55 | 8.2 | 1.54 |
| 14 | 12.7 | 1.87 | 12.6 | 1.85 | 12.5 | 1.84 | 12.4 | 1.82 | 12.2 | 1.80 | 12.1 | 1.78 |
| 32 | 13.4 | 1.57 | 13.2 | 1.56 | 13.1 | 1.54 | 13.0 | 1.52 | 12.8 | 1.51 | 12.7 | 1.49 |
| 47 | 10.4 | 0.90 | 10.3 | 0.89 | 10.2 | 0.88 | 10.1 | 0.87 | 10.0 | 0.86 | 9.9 | 0.85 |
| 75.2 | 16.5 | 1.33 | 16.4 | 1.32 | 16.2 | 1.30 | 16.1 | 1.29 | 15.9 | 1.28 | 15.7 | 1.26 |



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

3. Capacity Table

Console

(2) CHN18JDB(AC018BNJDCH/AA) + CXH18ADB (AC018BXADCH/AA)

Cooling

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

| Outdoor | | | | | | | | I | ndoor [*] | Temper | ature (| °F, DB | / WB) | | | | | | | | |
|----------|------|---------|------|------|---------|------|------|---------|--------------------|--------|---------|--------|-------|---------|------|------|---------|------|------|---------|------|
| Temp. | | 68 / 57 | | | 72 / 61 | | | 77 / 64 | | | 80 / 67 | | | 82 / 70 | | | 86 / 72 | | | 90 / 75 | |
| (°F, DB) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| (F, DD) | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 0 | 10.4 | 8.2 | 0.64 | 10.9 | 8.5 | 0.65 | 11.4 | 8.8 | 0.67 | 11.7 | 9.0 | 0.68 | 12.0 | 8.9 | 0.69 | 12.6 | 8.9 | 0.69 | 13.2 | 8.7 | 0.71 |
| 70 | 10.8 | 8.4 | 0.60 | 11.4 | 8.6 | 0.61 | 11.9 | 8.9 | 0.62 | 12.2 | 9.2 | 0.64 | 12.5 | 9.1 | 0.64 | 13.1 | 9.0 | 0.65 | 13.8 | 8.8 | 0.66 |
| 95 | 9.0 | 6.5 | 0.80 | 9.5 | 6.7 | 0.82 | 9.9 | 6.9 | 0.83 | 10.2 | 7.1 | 0.85 | 10.4 | 7.1 | 0.86 | 10.9 | 7.0 | 0.87 | 11.5 | 6.9 | 0.88 |
| 115 | 9.2 | 7.6 | 1.28 | 9.7 | 7.8 | 1.31 | 10.1 | 8.1 | 1.33 | 10.4 | 8.3 | 1.36 | 10.6 | 8.2 | 1.37 | 11.1 | 8.2 | 1.39 | 11.7 | 8.0 | 1.41 |
| 122 | 7.2 | 6.3 | 1.04 | 7.6 | 6.5 | 1.06 | 7.9 | 6.7 | 1.08 | 8.2 | 6.9 | 1.11 | 8.3 | 6.9 | 1.12 | 8.7 | 6.8 | 1.13 | 9.2 | 6.7 | 1.15 |

Heating

TC : Total Capacity, PI : Power Input

| Outdoor | | | | | Indo | or Tempera | ature (°F, D | В) | | | | | |
|-------------|------|------|------|------|------|------------|--------------|------|------|------|------|------|--|
| Temperature | 6 | 1 | 6 | 4 | 6 | 8 | 7 | 0 | 2 | 22 | 24 | | |
| (°F, DB) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | |
| (۲, 06) | MBH | kW | MBH | kW | MBH | kW | MBH | kW | MBH | kW | MBH | kW | |
| -13 | 6.7 | 1.24 | 6.6 | 1.23 | 6.6 | 1.22 | 6.5 | 1.21 | 6.4 | 1.20 | 6.4 | 1.18 | |
| -4 | 8.8 | 1.62 | 8.7 | 1.60 | 8.6 | 1.59 | 8.5 | 1.57 | 8.4 | 1.55 | 8.3 | 1.54 | |
| 14 | 13.4 | 1.84 | 13.3 | 1.82 | 13.1 | 1.80 | 13.0 | 1.78 | 12.9 | 1.76 | 12.7 | 1.75 | |
| 32 | 14.1 | 1.54 | 13.9 | 1.53 | 13.8 | 1.51 | 13.7 | 1.50 | 13.5 | 1.48 | 13.4 | 1.47 | |
| 47 | 13.4 | 1.18 | 13.3 | 1.17 | 13.1 | 1.16 | 13.0 | 1.15 | 12.9 | 1.14 | 12.7 | 1.13 | |
| 75.2 | 17.4 | 1.30 | 17.2 | 1.29 | 17.1 | 1.28 | 16.9 | 1.27 | 16.7 | 1.25 | 16.6 | 1.24 | |



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

3. Capacity Table

Console

(3) CHN18JDB(AC018BNJDCH/AA) + CXH18ADB (AC018BXADCH/AA)

Cooling

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

| Outdoor | | | | | | | | I | ndoor | Tempe | rature (| °F, DB | /WB) | | | | | | | | |
|----------|------|---------|------|------|---------|------|------|---------|-------|-------|----------|--------|------|---------|------|------|---------|------|------|---------|------|
| Temp. | | 68 / 57 | ' | | 72 / 61 | | | 77 / 64 | | | 80 / 67 | ' | | 82 / 70 | | | 86 / 72 | | | 90 / 75 | |
| (°F, DB) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| (F, DD) | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 0 | 15.0 | 11.6 | 1.15 | 15.8 | 12.0 | 1.18 | 16.5 | 12.4 | 1.20 | 17.0 | 12.8 | 1.22 | 17.3 | 12.6 | 1.24 | 18.2 | 12.5 | 1.25 | 19.1 | 12.2 | 1.27 |
| 70 | 16.5 | 11.9 | 1.20 | 17.4 | 12.3 | 1.22 | 18.1 | 12.7 | 1.25 | 18.7 | 13.1 | 1.28 | 19.1 | 13.0 | 1.29 | 20.0 | 12.8 | 1.30 | 21.0 | 12.6 | 1.33 |
| 95 | 15.0 | 10.9 | 1.60 | 15.8 | 11.2 | 1.63 | 16.5 | 11.5 | 1.67 | 17.0 | 11.9 | 1.70 | 17.3 | 11.8 | 1.72 | 18.2 | 11.7 | 1.73 | 19.1 | 11.4 | 1.77 |
| 115 | 14.3 | 10.6 | 2.24 | 15.0 | 10.9 | 2.29 | 15.7 | 11.3 | 2.33 | 16.2 | 11.6 | 2.38 | 16.5 | 11.5 | 2.40 | 17.3 | 11.4 | 2.43 | 18.2 | 11.2 | 2.48 |
| 122 | 13.5 | 10.5 | 2.40 | 14.2 | 10.8 | 2.45 | 14.8 | 11.1 | 2.50 | 15.3 | 11.5 | 2.55 | 15.6 | 11.4 | 2.58 | 16.4 | 11.2 | 2.60 | 17.2 | 11.0 | 2.65 |

Heating

TC : Total Capacity, PI : Power Input

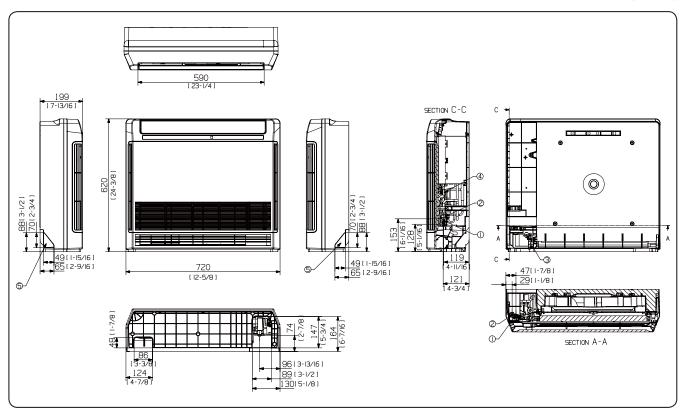
| Outdoor | | | | | Indo | or Tempera | ature (°F, D | B) | | | | |
|-------------|------|------|------|------|------|------------|--------------|------|------|------|------|------|
| Temperature | 6 | 51 | 6 | 4 | 6 | 8 | 7 | 0 | 2 | 2 | 2 | 4 |
| (°F, DB) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| (F, DD) | MBH | kW | MBH | kW | MBH | kW | MBH | kW | MBH | kW | MBH | kW |
| -13 | 13.7 | 2.37 | 13.6 | 2.35 | 13.4 | 2.33 | 13.3 | 2.30 | 13.2 | 2.28 | 13.0 | 2.26 |
| -4 | 15.5 | 2.79 | 15.3 | 2.76 | 15.2 | 2.74 | 15.0 | 2.71 | 14.9 | 2.68 | 14.7 | 2.66 |
| 14 | 17.6 | 2.67 | 17.4 | 2.64 | 17.3 | 2.62 | 17.1 | 2.59 | 16.9 | 2.57 | 16.8 | 2.54 |
| 32 | 18.6 | 2.57 | 18.4 | 2.55 | 18.2 | 2.52 | 18.1 | 2.50 | 17.9 | 2.47 | 17.7 | 2.45 |
| 47 | 19.6 | 1.98 | 19.4 | 1.96 | 19.2 | 1.94 | 19.0 | 1.92 | 18.8 | 1.90 | 18.6 | 1.88 |
| 75.2 | 21.5 | 1.68 | 21.3 | 1.66 | 21.1 | 1.65 | 20.9 | 1.63 | 20.7 | 1.62 | 20.5 | 1.60 |



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

4. Dimensional Drawing

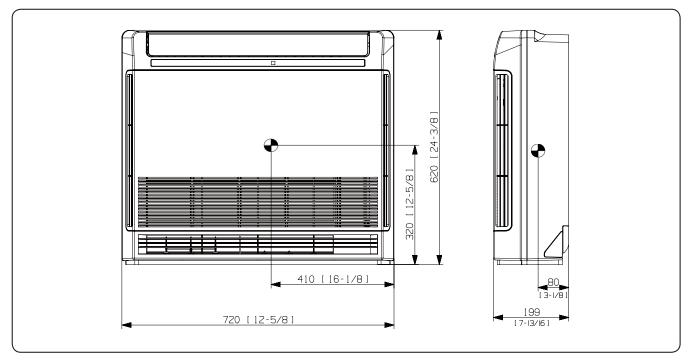
Console



| | | Description | | | | |
|-----|---|--------------------------|-----------------------------|--|--|--|
| No. | Name | CHN09JDB(AC009BNJDCH/AA) | CHN18JDB(AC018BNJDCH/AA) | | | |
| | | CHN12JDB(AC012BNJDCH/AA) | CHITIOSPE(ACOTOBIOSPETI/AA) | | | |
| 1 | Liquid pipe connection | Φ6.35(1/4) | | | | |
| 2 | Gas pipe connection | Ф9.52(3/8) | Ф12.7(1/2) | | | |
| 3 | Drain pipe connection | VP25(OD | 32, ID25) | | | |
| 4 | Power supply & Communication wiring conduit | | | | | |
| 6 | Knockout hole for drain hose | | | | | |

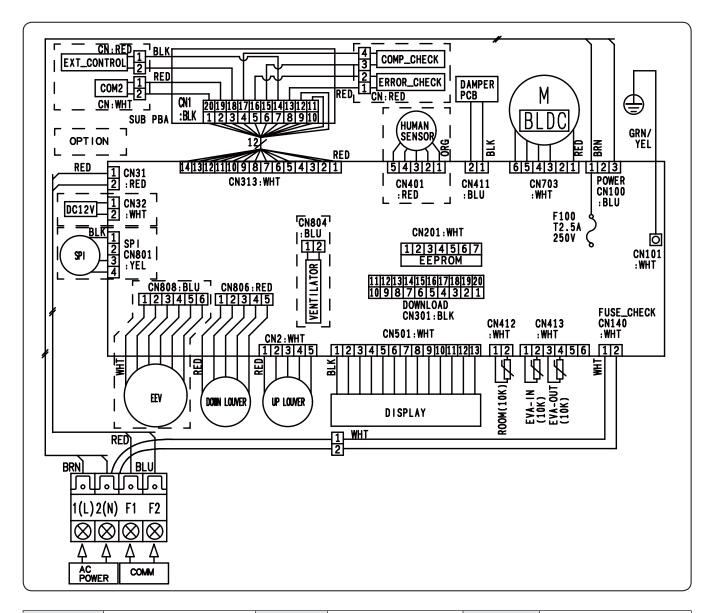
5. Center of Gravity

Console



6. Electrical Wiring Diagram

Console



| SPI | S-Plasma ion | EEV | Electronic Expansion Valve | ROOM | Thermistor ROOM in (10K) |
|--------|--------------|--------|----------------------------|---------|--------------------------|
| M-BLDC | BLDC Motor | EVA-IN | Thermistor EVA IN(10K) | EVA-OUT | Thermistor EVA OUT(10K) |

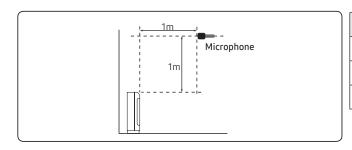
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow: blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Console

Sound Pressure level

Unit: dB(A)

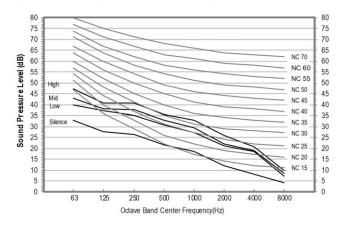


| Model | High | Mid | Low | Silence |
|---------------------------|------|-----|-----|---------|
| CNH09JDB (AC009BNJDCH/AA) | 35 | 31 | 29 | 24 |
| CNH12JDB (AC012BNJDCH/AA) | 38 | 35 | 33 | 24 |
| CNH18JDB (AC018BNJDCH/AA) | 43 | 39 | 35 | 32 |

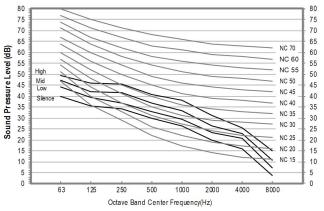
- NC Curve
 - 1) CNH09JDB (AC009BNJDCH/AA)

75 75 70 70 65 65 NC 70 Sound Pressure Level (dB) 60 60 NC 60 55 50 45 40 55 NC 55 50 NC 50 45 NC 45 NC 40 35 30 25 20 35 NC 35 25 NC 25 15 NC 20 15 10 NC 15 10 5 Octave Band Center Frequency(Hz)

2) CNH12JDB (AC012BNJDCH/AA)



3) CNH18JDB (AC018BNJDCH/AA)



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

7. Sound Data

Console

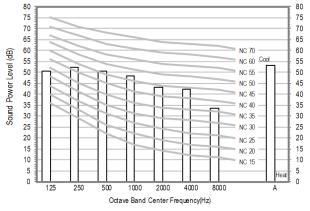
Sound Power level

■ NOTE

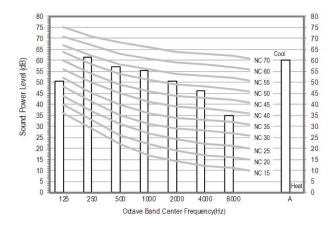
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

NC Curve

1) CNH09JDB (AC009BNJDCH/AA)



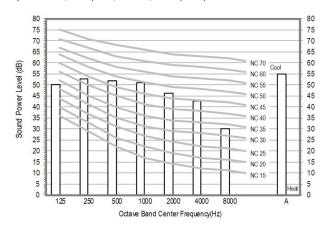
3) CNH18JDB (AC018BNJDCH/AA)



Unit: dB(A)

| Model | Cooling |
|---------------------------|---------|
| CNH09JDB (AC009BNJDCH/AA) | 53 |
| CNH12JDB (AC012BNJDCH/AA) | 55 |
| CNH18JDB (AC018BNJDCH/AA) | 60 |

2) CNH12JDB (AC012BNJDCH/AA)

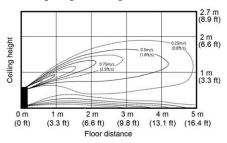


8. Temperature and air flow distribution

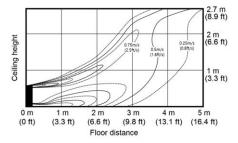
Console

CNH09JDB (AC009BNJDCH/AA)

• Cooling Air Velocity distribution (Discharge angle : 40 degree)

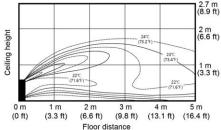


• Heating Air Velocity distribution (Discharge angle : 4 degree)

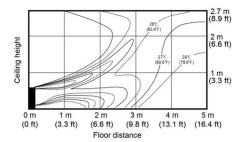


• Cooling temperature distribution

(Discharge angle : 40 degree)

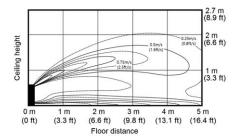


Heating temperature distribution (Discharge angle : 4 degree)



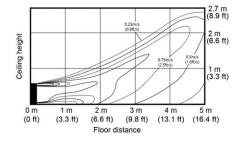
CNH12JDB (AC012BNJDCH/AA)

• Cooling Air Velocity distribution (Discharge angle : 40 degree)



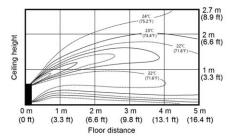
• Heating Air Velocity distribution

(Discharge angle: 4 degree)



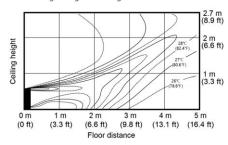
• Cooling temperature distribution

(Discharge angle: 40 degree)



Heating temperature distribution

(Discharge angle: 4 degree)

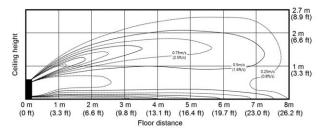


8. Temperature and air flow distribution

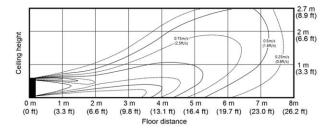
Console

CNH18JDB (AC018BNJDCH/AA)

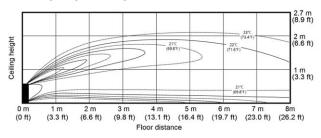
• Cooling Air Velocity distribution (Discharge angle: 40 degree)



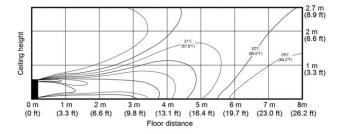
• Heating Air Velocity distribution (Discharge angle: 4 degree)



• Cooling temperature distribution (Discharge angle : 40 degree)



• Heating temperature distribution (Discharge angle: 4 degree)



Outdoor Units

| Outdoor Units | |
|------------------------------|----|
| | |
| 1. Summary Table | 26 |
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| 3. Center of Gravity | 29 |
| 4. Electrical Wiring Diagram | 30 |
| 5. Sound Data | 32 |
| 6. Capacity Correction | 34 |
| 7. Operation Range | 36 |
| 8. Piping Diagram | 37 |

1. Summary Table

Outdoor Units

Performance Characteristics

| Capacity/ | Model Code | Net Size | Net Weight | Airflow | Sound Pressu | re Level (dBA) | Sound Power |
|-----------|---------------------------|-----------------------|------------|---------|--------------|----------------|-------------|
| Btu/hh | Model Code | (WxHxD inch) | (lbs) | (CFM) | Cooling | Heating | Level (dBA) |
| 9,000 | CXH09ADB (AC009BXADCH/AA) | 31.10 x 21.57 x 11.22 | 74.3 | 1,059 | 46 | 47 | 59 |
| 12,000 | CXH12ADB (AC012BXADCH/AA) | 31.10 x 21.57 x 11.22 | 74.3 | 1,059 | 47 | 48 | 61 |
| 18,000 | CXH18ADB (AC018BXADCH/AA) | 34.64 x 31.42 x 12.20 | 118.4 | 2,154 | 48 | 48 | 62 |



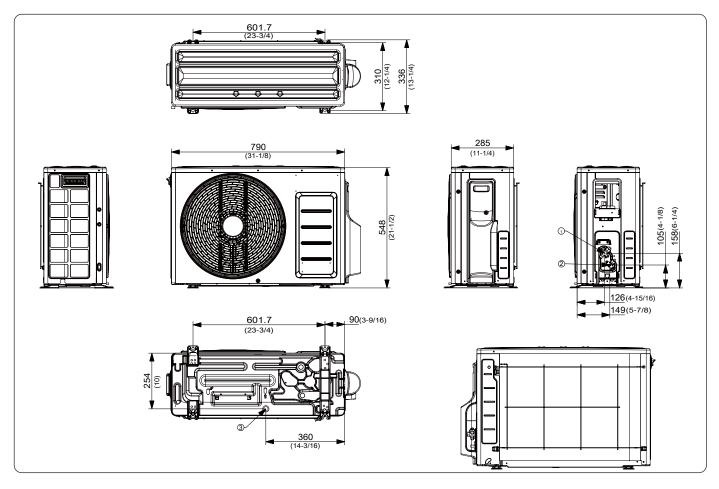
• Sound power level is based on cooling operation.

/

2. Dimensional Drawing

Outdoor Units

CXH09ADB (AC009BXADCH/AA), CXH12ADB (AC012BXADCH/AA)

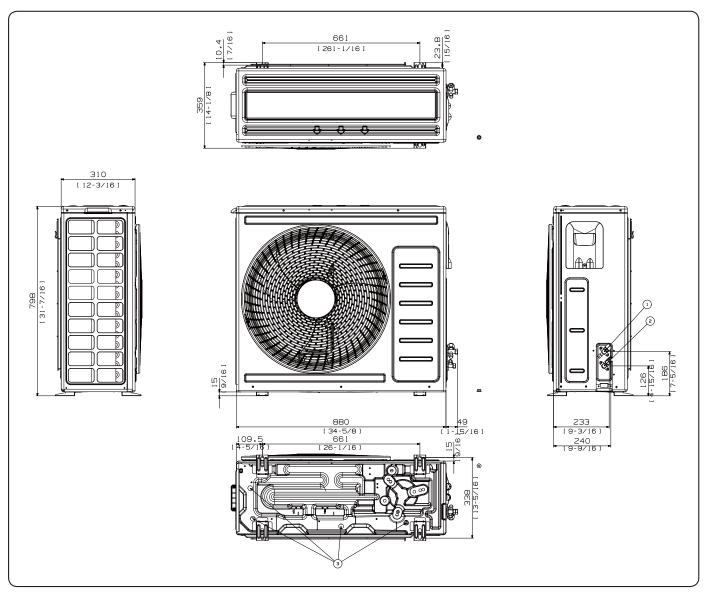


| No. | Name | Description | | |
|-----|-------------------------|--|--|--|
| 1 | Refrigerant gas pipe | Ф9.52(3/8) | | |
| 2 | Refrigerant liquid pipe | Ф6.35(1/4) | | |
| 3 | Drain Hole | Connection with the provided drain plug. | | |

2. Dimensional Drawing

Outdoor Units

CXH18ADB (AC018BXADCH/AA)



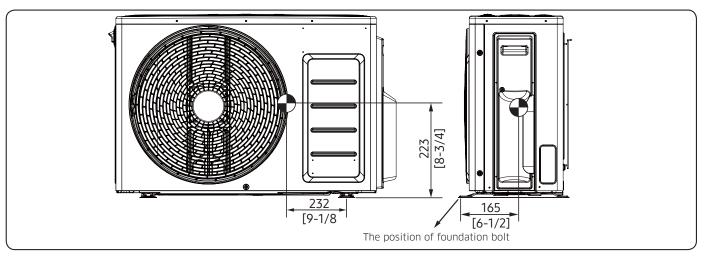
| No. | Name | Description | | |
|-----|-------------------------|----------------------------------|--|--|
| 1 | Refrigerant liquid pipe | Φ12.7 (1/2) | | |
| 2 | Refrigerant gas pipe | Ф6.35 (1/4) | | |
| 3 | Drain hole | Connect with provided drain plug | | |

3. Center of Gravity

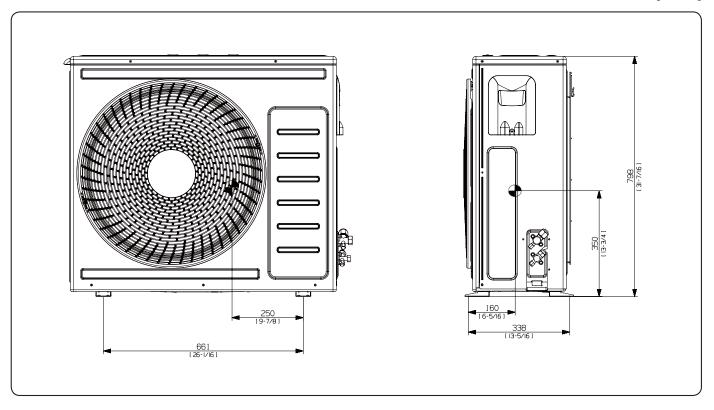
Outdoor Units

CXH09ADB (AC009BXADCH/AA), CXH12ADB (AC012BXADCH/AA)

Units: mm [inches]



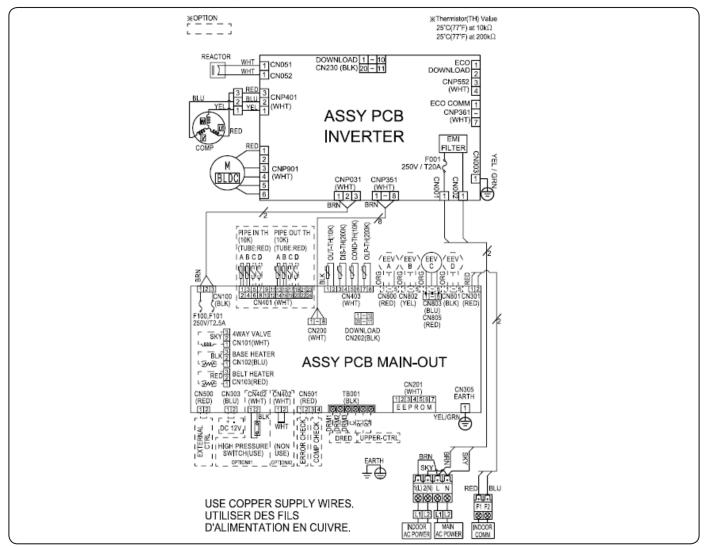
CXH18ADB (AC018BXADCH/AA)



4. Electrical Wiring Diagram

Outdoor Units

CXH09ADB (AC009BXADCH/AA), CXH12ADB (AC012BXADCH/AA)



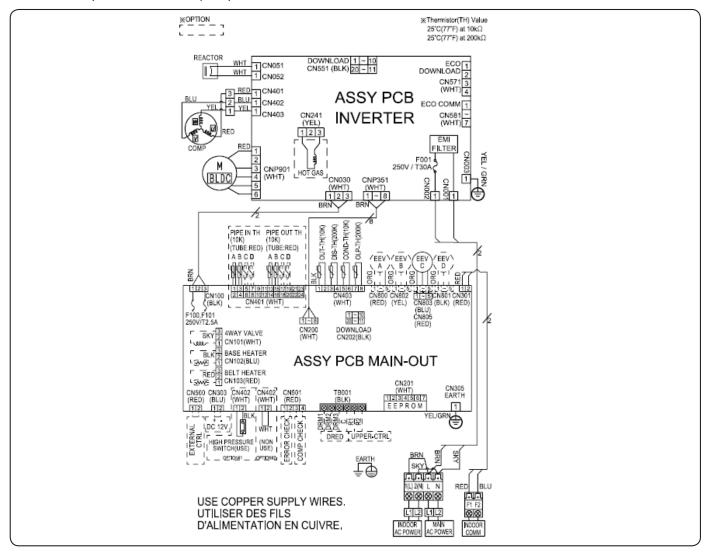
| MAIN PCB | Printed circuit board(MAIN) | EEV | Electronic Expansion Valve |
|--------------|---------------------------------|----------|----------------------------|
| INVERTER PCB | Printed circuit board(INVERTER) | M-BLDC | BLDC Motor |
| EMI PCB | Printed circuit board(EMI) | OLP-TEMP | Thermistor OLP |

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

4. Electrical Wiring Diagram

Outdoor Units

CXH18ADB (AC018BXADCH/AA)



| MAIN PCB | Printed circuit board(MAIN) | EEV | Electronic Expansion Valve |
|--------------|---------------------------------|----------|----------------------------|
| INVERTER PCB | Printed circuit board(INVERTER) | M-BLDC | BLDC Motor |
| EMI PCB | Printed circuit board(EMI) | OLP-TEMP | Thermistor OLP |

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

5. Sound Data

Outdoor Units

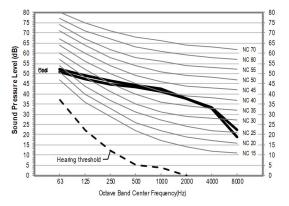
Sound Pressure level

Unit: dB(A)

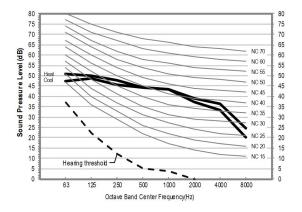
| Mici | rophone 1 1m |
|------|--------------|
| 1.5m | Front |

| Model | Cooling | Heating |
|---------------------------|---------|---------|
| CXH09ADB (AC009BXADCH/AA) | 46 | 47 |
| CXH12ADB (AC012BXADCH/AA) | 47 | 48 |
| CXH18ADB (AC018BXADCH/AA) | 48 | 48 |

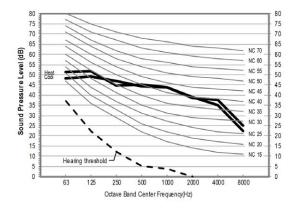
- NC Curve
 - 1) CXH09ADB (AC009BXADCH/AA)







3) CXH18ADB (AC018BXADCH/AA)



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

5. Sound Data

Outdoor Units

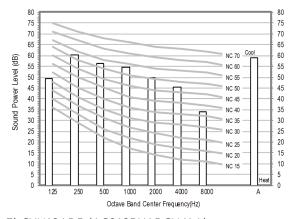
Sound Power level



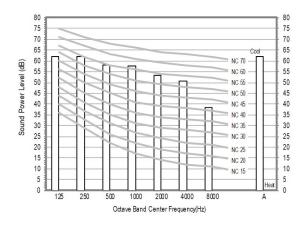
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

• NC Curve

1) CXH09ADB (AC009BXADCH/AA)



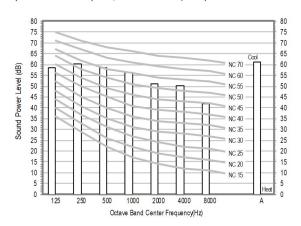
3) CXH18ADB (AC018BXADCH/AA)



Unit: dB(A)

| Model | Cooling |
|---------------------------|---------|
| CXH09ADB (AC009BXADCH/AA) | 59 |
| CXH12ADB (AC012BXADCH/AA) | 61 |
| CXH18ADB (AC018BXADCH/AA) | 62 |

2) CXH12ADB (AC012BXADCH/AA)



6. Capacity or rection

Outdoor Units

CNH09JDB(AC009BNJDCH/AA)+CXH09ADB(AC009BXADCH/AA) CNH12JDB(AC012BNJDCH/AA)+CXH12ADB(AC012BXADCH/AA)

Cooling



| | | Pipe Length (ft) | | | | | | | |
|-----------------------|-------|------------------|------|------|------|--|--|--|--|
| | | 24.6 | 32.8 | 49.2 | 65.6 | | | | |
| | 49.2 | - | - | 0.95 | 0.93 | | | | |
| e (ft | 32.8 | - | 0.98 | 0.95 | 0.93 | | | | |
| en ce | 16.4 | 1.00 | 0.98 | 0.95 | 0.93 | | | | |
| Level Difference (ft) | 0.0 | 1.00 | 0.98 | 0.95 | 0.93 | | | | |
| | -16.4 | 1.00 | 0.97 | 0.95 | 0.93 | | | | |
| eve | -32.8 | - | 0.95 | 0.94 | 0.92 | | | | |
| | -49.2 | - | - | 0.93 | 0.91 | | | | |

Heating





| | | Pipe Length (ft) | | | | | | | |
|-----------------------|-------|------------------|------|------|------|--|--|--|--|
| | | 24.6 | 32.8 | 49.2 | 65.6 | | | | |
| _ | 49.2 | - | - | 0.94 | 0.91 | | | | |
| e (ft | 32.8 | - | 0.97 | 0.94 | 0.91 | | | | |
| ence | 16.4 | 1.00 | 0.97 | 0.94 | 0.91 | | | | |
| Level Difference (ft) | 0.0 | 1.00 | 0.97 | 0.94 | 0.91 | | | | |
| | -16.4 | 1.00 | 0.97 | 0.94 | 0.91 | | | | |
| eve | -32.8 | - | 0.97 | 0.94 | 0.91 | | | | |
| | -49.2 | - | - | 0.94 | 0.91 | | | | |

6. Capacity Correction

Outdoor Units

CNH18JDB(AC018BNJDCH/AA)+CXH18ADB(AC018BXADCH/AA)

Cooling



| | | Pipe Length (ft) | | | | | | | | | |
|------------------|-------|------------------|------|------|------|------|------|-------|-------|-------|-------|
| | | 24.6 | 32.8 | 49.2 | 65.6 | 82.0 | 98.4 | 114.8 | 131.2 | 147.6 | 164.0 |
| | 98.4 | - | - | - | - | - | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 82.0 | - | - | - | - | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 65.6 | - | - | - | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 49.2 | - | - | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| e (ft) | 32.8 | - | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| Level Difference | 16.4 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| ffer | 0.0 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| i Di | -16.4 | 1.00 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.90 | 0.88 |
| -eve | -32.8 | - | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 | 0.91 | 0.89 | 0.87 |
| _ | -49.2 | - | - | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.90 | 0.88 | 0.85 |
| | -65.6 | - | - | - | 0.95 | 0.94 | 0.93 | 0.91 | 0.89 | 0.87 | 0.83 |
| | -82.0 | - | - | - | - | 0.94 | 0.92 | 0.91 | 0.89 | 0.86 | 0.82 |
| | -98.4 | - | - | - | - | - | 0.92 | 0.90 | 0.88 | 0.85 | 0.80 |

Heating



| | | Pipe Length (ft) | | | | | | | | | |
|-----------------------|-------|------------------|------|------|------|------|------|-------|-------|-------|-------|
| | | 24.6 | 32.8 | 49.2 | 65.6 | 82.0 | 98.4 | 114.8 | 131.2 | 147.6 | 164.0 |
| | 98.4 | - | - | - | - | - | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 82.0 | - | - | - | - | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 65.6 | - | - | - | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | 49.2 | - | - | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| Level Difference (ft) | 32.8 | - | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| ence | 16.4 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| ffer | 0.0 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| <u> </u> | -16.4 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| eve. | -32.8 | - | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| - | -49.2 | - | - | 0.98 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | -65.6 | - | - | - | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | -82.0 | - | - | - | - | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| | -98.4 | - | - | - | - | - | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |

7. Operation Range

Outdoor Units

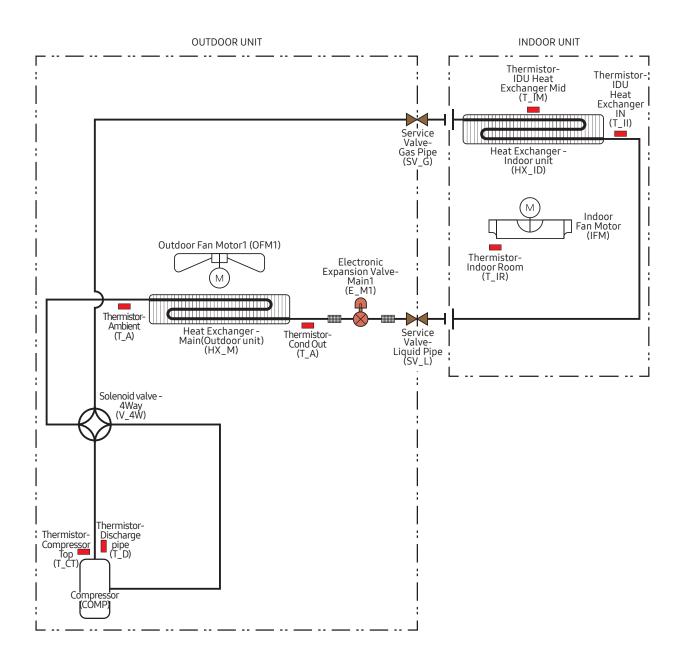
| Mode | Indoor temperature | Outdoor temperature | Indoor humidity |
|---------|--------------------------------|----------------------------------|-----------------|
| Cooling | 18°C to 32°C (64°F to 90°F) | -18°C to 50°C (0°F to 122°F) | 80% or less |
| Drying | 18°C to 32°C (64°F to 90°F) | -18°C to 50°C (0°F to 122°F) | 80% or less |
| Heating | 30°C(86°F) or less | -25°C to 24°C (-13°F to 75°F) | - |

- The assumed installation conditions are follows
 - The pipe length(including elbow) is 7.5m(24.6ft).
 - The level difference is 0 m.

8. Piping Diagram

Outdoor Units

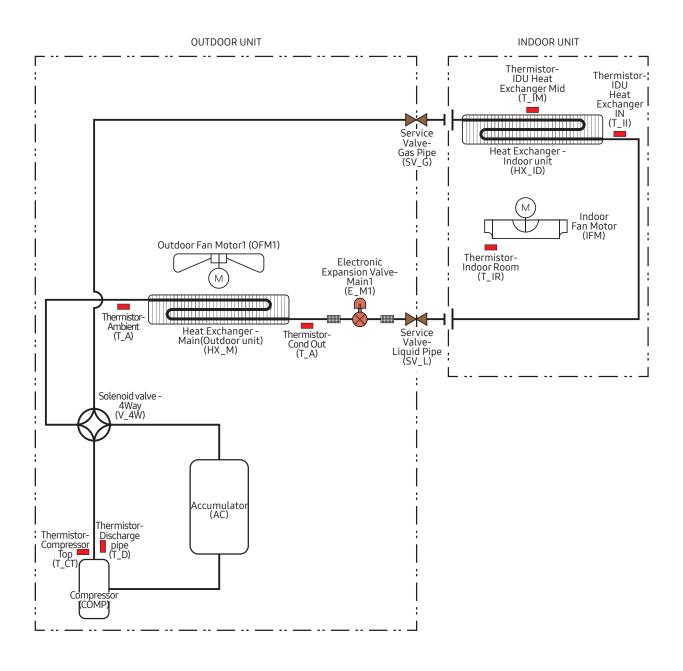
CNH09JDB(AC009BNJDCH/AA)+CXH09ADB(AC009BXADCH/AA)
CNH12JDB(AC012BNJDCH/AA)+CXH12ADB(AC012BXADCH/AA)



8. Piping Diagram

Outdoor Units

CNH18JDB(AC018BNJDCH/AA)+CXH18ADB(AC018BXADCH/AA)



Console

Choosing the installation location

General requirements for installation location

Do not install the air conditioner in a location where it will come into contact with the following elements:

- · Combustible gases
- Saline air
- Machine oil
- Sulphide gas
- Special environmental conditions

Avoid installing the air conditioner in a location with the following conditions:

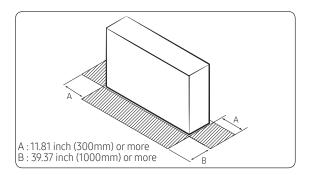
- In areas where it is exposed to direct sunlight. Close to heat sources.
- In damp areas or locations where it could come into contact with water. (for example rooms used for laundry)
- In areas where curtains and furniture could affect the supply and discharge of air.
- Without leaving the required minimum space around the unit. (as shown in the drawing)
- In scarcely ventilated areas.
- On surfaces that are unable to support the weight of the unit without deforming, breaking or causing vibrations during the use of the air conditioner.
- In a position that does not enable the condensate drainage pipe to be correctly installed. (at the end of the installation. It is always essential to check the efficiency of the drainage system)

Indoor unit installation requirement

- This unit has to be installed as floor type only.
- · There must be no obstacles near the air inlet and outlet.
- Select a convenient location that permits the air to reach every corner of the area to be cooled.
- Pre-plan for easy and short routing of the refrigerant tubing and wiring to the outdoor unit.
- There should be no flammable gas, alkaline, substances present in the air.
- Maintain sufficient clearance around the indoor unit.
- Make sure that the water dripping from the drain hose runs away correctly and safely.
- Do not install the unit where it will be exposed to direct sunlight.

↑ CAUTION

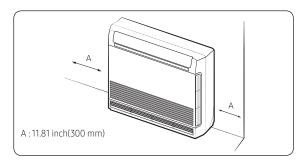
- Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.
- For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.



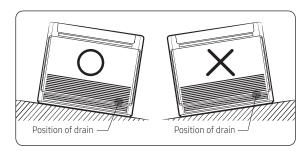
Console

Installing the unit

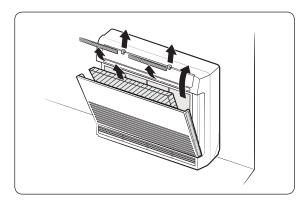
1 When you install the indoor with side-pipe connection, please make space more than 11.81 inch (300mm) from the wall.



When you install the indoor with side-pipe connection, please make space more than 11.81 inch (300mm) from the wall.

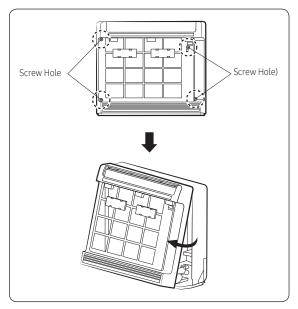


3 Please remove packaging materials when installing the unit. (**009/012******: 6 Items / **015/018******: 7 Items)

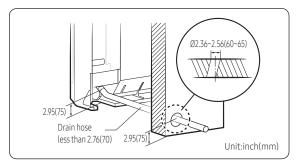


4 The body front should be opened to connect pipes.

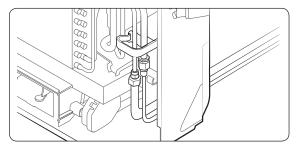
Remove the 4 screws on the front of the unit and then pull the lower section of the unit out as shown below.



5 Make a hole in the wall.

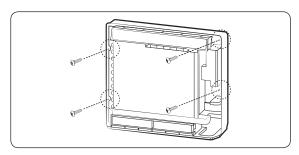


6 Refrigerant and drain pipes and cables should go through the hole located at the on the back of the unit at the bottom.



Console

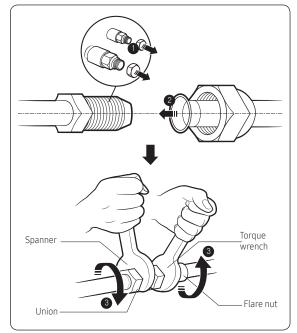
- 7 Hanging the indoor unit on the Bracket Hanger, then fix the Indoor Unit by using 4 Screws.
 - Case 1. Installing on the floor: You must secure the unit to the wall using 4 screws to ensure that the unit does not fall.
 - Case 2. Hanging on the wall: Follow the installation guide supplied in the accessory part.
 - Screw positions are specified on the installation guide.



Connecting the assembly pipes to the refrigerant pipes

There are two refrigerant pipes of different diameters :

- A smaller one for the liquid refrigerant.
- A larger one for the gas refrigerant. The inside of copper pipe must be clean and has no dust.
- 1 Remove the pinch pipes and connect the assembly pipes. First tighten the flare nuts manually and then with a torque wrench and a spanner applying the following torque.



| Outer D | Outer Diameter | | Torque | | |
|---------|----------------|------------|--------------|--|--|
| mm | inch | N•m | lbf.ft | | |
| Ø6.35 | 1/4 | 14 to 18 | 10.3 to 13.3 | | |
| Ø9.52 | 3/8 | 34 to 42 | 25.1 to 31.0 | | |
| Ø12.70 | 1/2 | 49 to 61 | 36.1 to 45.0 | | |
| Ø15.88 | 5/8 | 68 to 82 | 50.2 to 60.5 | | |
| Ø19.05 | 3/4 | 100 to 120 | 73.8 to 88.5 | | |

(1 N•m=10 kgf•cm)

Console

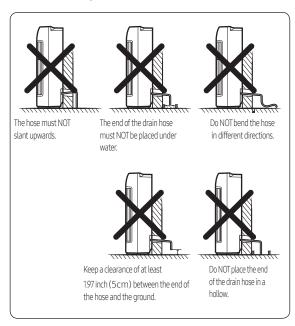
- 2 Use insulation that is thick enough to cover the refrigerant pipe to prevent condensate water on the outside of pipe and to ensure system efficiency. Condensation can drip onto the floor causing property damage or a slip hazard.
- 3 Cut off any excess foam insulation.
- 4 Make sure that the bent sections of pipe are not kinked or cracked.
- 5 It is necessary to double the insulation thickness (0.39 inch or more,10 mm or more) to prevent condensation even on the insulator when if the installed area is warm and humid.
- 6 Do not use joints or extensions for the pipes that connect the indoor and outdoor unit.

⚠ CAUTION

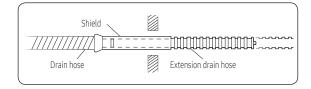
- Connect the indoor and outdoor units using pipes with flared connections (not supplied). For the lines, use insulated, unwelded, degreased and deoxidized copper pipe (Cu DHP type to ISO 1337 or UNI EN 12735-1), suitable for operating pressures of at least 4200kPa and for a burst pressure of at least 20700kPa. Copper pipe for hydro-sanitary applications is completely unsuitable.
- For sizing and limits (height difference, line length, max. bends, refrigerant charge, etc.) see the outdoor unit installation manual.
- All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

Installing the drain hose and drain pipe

When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 2.56 inch (65mm) hole drilled in the wall, check the following:



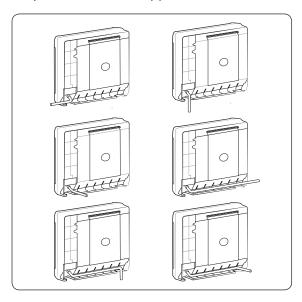
1 If necessary, connect the 6.56ft (2 m) extension drain hose to the drain hose.



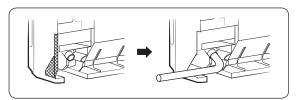
- 2 If you use the extension drain hose, insulate the outside of the extension drain hose with a insulation.
- 3 Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.
 - If you don't use the other drain hose hole, block it with a rubber stopper.
- 4 Pass the drain hose under the refrigerant pipes, keeping the drain hose tight.
- 5 Pass the drain hose through the hole in the wall. Verify that it slants downwards.

Console

6-ways for drain hose and drain pipe connection



Knock out

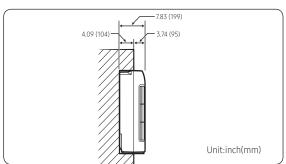


NOTE

 The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 11 for further details.

Step 10 Optional : Half concealed Installation

When installing this unit with a part in the wall, please keep the dimensions as shown below.



Connecting the power and communication cables

⚠ CAUTION

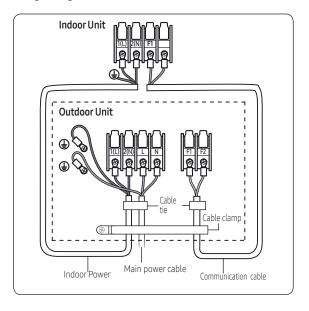
 Always remember to connect the refrigerant pipes before performing the electric connections.
 When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

CAUTION

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

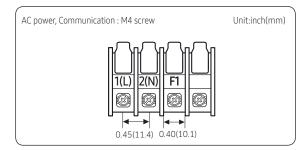
The indoor unit is powered through the outdoor unit by means of a H05 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

- 1 Remove the screw on the electrical component box and remove the cover plate.
- 2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
- 3 Route the other end of the cable to the outdoor unit.
- 4 Reassemble the electrical component box cover, carefully tightening the screw.



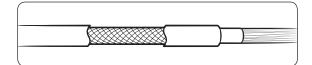
Console

| Indoor power supply | | | | | |
|--|--|--|--|--|--|
| Power supply Max/Min(V) Indoor power cable | | | | | |
| 208 to 230V, 60 Hz | 0.0012 inch ² ↑ (0.75mm ² ↑), 3 wires | | | | |
| Communication cable | | | | | |
| 0.0012 inch²↑ (0.75mm² ↑), 2 wires | | | | | |



| Tightening torque lbf-ft (kgf • cm) | | | | |
|-------------------------------------|-----------------------------|--|--|--|
| M3.5 | 0.58 to 0.87 (8.0 to 12.0) | | | |
| M4 | 0.87 to 1.30 (12.0 to 18.0) | | | |

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F)
- Screws on terminal block must not be unscrewed with the torque less than 0.87 ft•lb (12 kgf•cm).
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



⚠ CAUTION

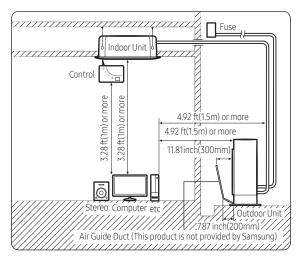
• When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

Outdoor Units

Choosing the installation location

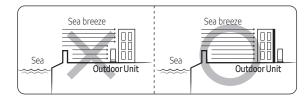
Installation location requirements

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

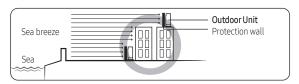


⚠ CAUTION

- You have just purchased a system air conditioner and it has been installed by your installation specialist.
- This device must be installed according to the national electrical rules.
- If your outdoor unit exceeds a net weight of 132.2 lb(60 kg), do not install it on a suspended wall, but stand it on a floor.
- The reliability of our product cannot be guaranteed under conditions of -13°F(-25°C) or less.
- When installing the outdoor unit at the seaside, make sure that it is not directly exposed to sea breeze. If you cannot find an adequate place free from direct sea breeze, construct a protection wall or a protective fence.
 - Install the outdoor unit in a place (such as near buildings etc.) where it can be prevented from sea breeze. Failure to do so may cause a damage to the outdoor unit.



- If you cannot avoid installing the outdoor unit at the seaside, construct a protection wall around to block the sea breeze.
- Construct a protection wall with a solid material such as concrete to block the sea breeze. Make sure that the height and the width of the wall are 1.5 times larger than the size of the outdoor unit. Also, secure a space larger than 27.6 inch(700mm) between the protection wall and the outdoor unit for exhausted air to ventilate.



! CAUTION

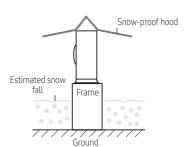
 Depending on the condition of the power supply, unstable power or voltage may cause malfunction of parts or control system (example: on a boat or places using power supplied from electric generator, etc.).

Outdoor Units

- Install the unit in a place where water can drain smoothly.
- If you have any difficulty finding installation location as prescribed above, contact your manufacturer for details.
- Consider that the salinity particles clinging to the external panels should be sufficiently washed out. Be sure to clean sea water and dust from the outdoor unit heat exchanger and apply a corrosion inhibitor on it at least once a year.
- Because the residual water at the bottom of the outdoor unit significantly promotes corrosion, make sure that the slope does not disturb drainage.
 - Keep the floor level so that rain does not accumulate.
 - Be careful not to block the drain hole due to foreign substance.
- Check the condition of the product periodically.
 - Check the installation site every 3 months and perform anti-corrosion treatment such as R-Pro supplied by SAMSUNG (Code: MOK-220SA) or commercial water repellent grease and wax, etc., based on the product condition.
 - When the product is to be shut down for a long period of time, such as off-peak hours, take appropriate measures like covering the product.
- If the product installed within 1640.4 ft of seashore, special anti-corrosion treatment is required.
 - * Please contact your local SAMSUNG representative for further details.

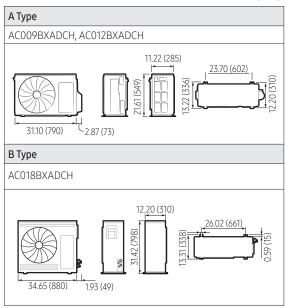
↑ CAUTION

 In areas with heavy snow fall, piled snow could block the air intake. To avoid this incident, install a frame that is higher than estimated snow fall. In addition, install a snow-proof hood to avoid snow from piling on the outdoor unit.



Outdoor unit dimensions

Unit: inch (mm)



Outdoor Units

Minimum clearances for the outdoor unit

When installing 1 outdoor unit

Unit : inch (mm)

No (0091) 90'65

No more

Unit : inch (mm)

No (0091) 90'65

No more

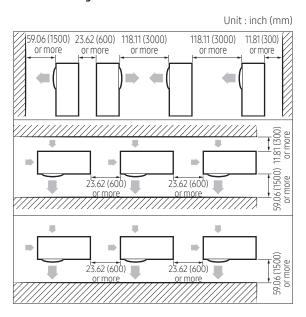
Unit : inch (mm)

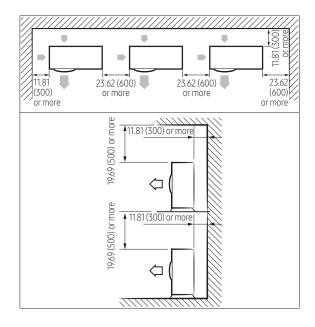
No (0091) 90'65

No more

Unit : inch (mm)

When installing more than 1 outdoor unit



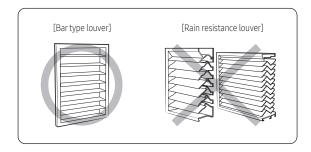


∴ CAUTION

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

⚠ WARNING

• Should adopt bar type louver. Don't use a type of rain resistance louver.

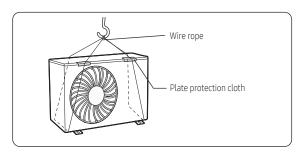


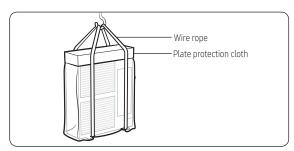
- Louver specifications.
 - Angle criteria : less than 20°
 - Opening ratio criteria: greater than 80%

Outdoor Units

Moving the outdoor unit with wire rope

- 1 Before carrying the outdoor unit, fasten two wire ropes of 26.25 ft (8m) or longer, as shown in the figure.
- 2 To prevent damages or scratches effectively, insert a piece of cloth between the outdoor unit and the ropes.
- 3 Move the outdoor unit.





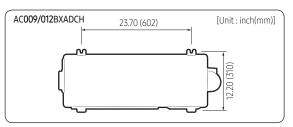
Fixing the outdoor unit in place

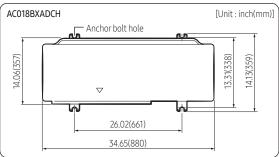
Install the outdoor unit on a rigid and stable base to prevent disturbance from any noise caused by vibration. When installing the unit on tall stands or in a location exposed to strong winds, fix the unit securely to the ground or structure.

- 1 Position the outdoor unit so that the air flow is directed towards the outside, as indicated by the arrows on the top of the unit.
- **2** Attach the outdoor unit to the appropriate support using anchor bolts.
 - The ground wire for the telephone line cannot be used to ground the air conditioner.
- **3** Dif the outdoor unit is exposed to strong winds, install shield plates around the outdoor unit, so that the fan can operate correctly.



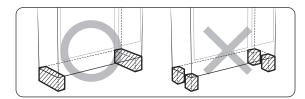
• Install provided rubber legs to prevent vibration and noise.



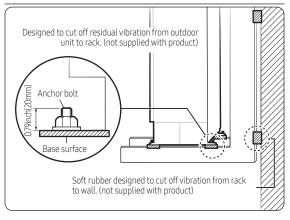


⚠ CAUTION

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



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



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

Outdoor Units

⚠ CAUTION

- Make sure that the wall can support the weights of the rack and the outdoor unit.
- Install the rack close to the column as much as possible.
- When installing an air guide duct, be sure to check the following:
 - The screws do not damage the copper pipe.
 - The air guide duct is fixed firmly on the guard fan.

Connecting the power cables, communication cable, and controllers

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

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

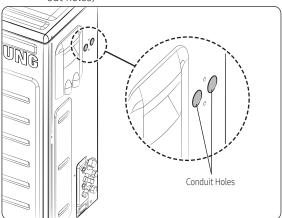
! CAUTION

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

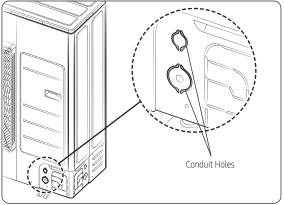
Connecting wire conduits

When connecting cables between the indoor unit and the outdoor unit, use conduits to protect the cables.

- 1 Drill holes on the conduit plate in accordance with their use and quantity.
 - AC018BXADCH
 - Drill conduit holes on the side cabinet. (knock out holes)



- AC024/030/036/042/048BXADCH
 - Use a nipper to remove conduit holes from the lower part of the cabinet.
 (Do not remove it by hammering.)



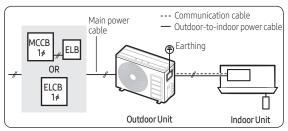
- 2 Insert the cables through the conduits, and then fix the conduits to the conduit plate with the lock nuts.
- **3** Apply silicone to the end of the hose to prevent rain from entering the hose.

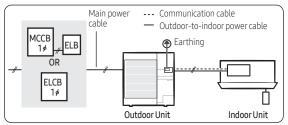


- 4 Connect the cables to the outdoor units. For how to connect the cables, refer to the next page.
- **5** Attach the conduit plate to the product.

Air conditioning system examples

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





Outdoor Units

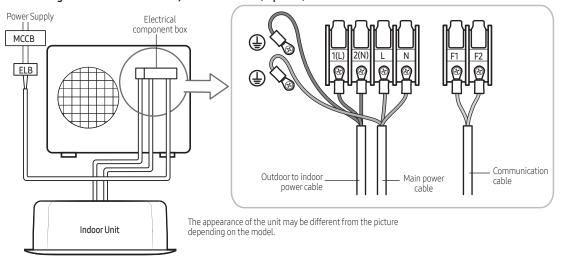
* The appearance of the unit may be different from the picture depending on the model.

! CAUTION

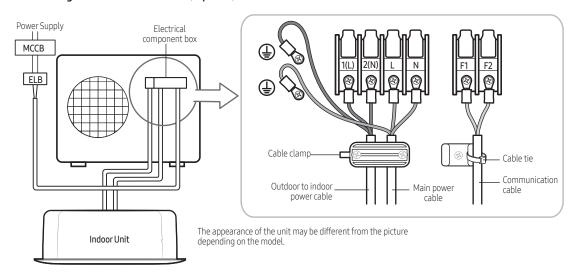
- If the outdoor unit is installed in a location vulnerable to an electric leak or submergence, make sure to install an ELCB.
- AC018BXADCH, AC024BXADCH: ELCB must be installed since this product is equipped with a base heater.

Connecting the main power cable

When using ELB for AC009BXADCH, AC012BXADCH (1-phase)



When using ELB for AC018BXADCH (1-phase)



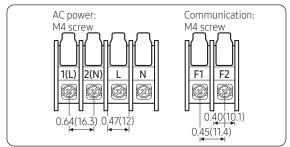
Outdoor Units

⚠ CAUTION

- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 2% of supply rating.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units within ducts. (with appropriate IP rating and material selection for your application)
- Ensure that main supply connection is made through a switch that disconnects all poles, with contact gap of a least 0.12 inch(3mm).
- Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.
- Keep distances of 1.97 inch(50mm) or more between power cable and communication cable.

Main power terminal block specifications

[Unit:inch(mm)]



Main power cable specifications

The power cable is not supplied with air conditioner.

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

Outdoor Units

Single phase

| Мо | del | | | Out | door | Indoor | | |
|-------------|-------------------------|------------------|---|---------|---------|--------|------------|------------|
| Outdoor | Indoor | Power Source | ower Source RLA (A) MOC Rated input current of the power conversion equipment | | МОС | | MCA (A) | MOP (A) |
| | | | | FAN1(A) | FAN2(A) | FAN(A) | | |
| | AC009BN1DCH | | | | | 0.26 | 9.0 | 15.0 |
| | AC009BNHDCH | | | | | 2.10 | 10.9 | 15.0 |
| AC009BXADCH | AC009BNJDCH | | 6.0 | 0.42 | - | 0.49 | 9.3 | 15.0 |
| | AC009BNLDCH | | | | | 1.06 | 9.8 | 15.0 |
| | AC009BNNDCH | 208~230V/60Hz | | | | 0.30 | 9.1 | 15.0 |
| | AC012BN1DCH | 200 230 7,001 12 | | | | 0.26 | 9.0 | 15.0 |
| | AC012BNHDCH | | | | | 2.10 | 10.9 | 15.0 |
| AC012BXADCH | AC012BNJDCH | | 6.0 | 0.42 | - | 0.49 | 9.3 | 15.0 |
| | AC012BNLDCH | | | | | 1.06 | 9.8 | 15.0 |
| | AC012BNNDCH | | | | | 0.30 | 9.1 | 15.0 |
| | AC018BN1DCH | | | | | 0.42 | 18.4 | 25.0 |
| | AC018BN4DCH | | | | | 0.79 | 18.8 | 25.0 |
| | AC018BN6DCH | | | | | 0.79 | 18.8 | 25.0 |
| | AC018BNADCH | | | | - | 0.42 | 18.4 | 25.0 |
| AC018BXADCH | AC018BNHDCH | | 12.7 | 1.25 | | 2.10 | 20.1 | 25.0 |
| | AC018BNJDCH | | | | | 0.49 | 18.5 | 25.0 |
| | AC018BNLDCH | | | | | 1.06 | 19.1 | 25.0 |
| | AC018BNNDCH | | | | | 0.30 | 18.3 | 25.0 |
| | AC018BNZDCH | | | | | 1.50 | 19.5 | 25.0 |
| | AC024BN4DCH | | | 1.25 | - | 0.79 | 22.8 | 30.0 |
| | AC024BN6DCH | - | 15.9 | | | 0.79 | 22.8 | 30.0 |
| AC024BXADCH | AC024BNADCH | | | | | 0.42 | 22.4 | 30.0 |
| | AC024BNHDCH | | | | | 2.10 | 24.1 | 30.0 |
| | AC024BNZDCH | | | | | 2.10 | 24.1 | 30.0 |
| | AC030BN4DCH | | | | | 0.79 | 22.3 | 30.0 |
| | AC030BN6DCH | 000 070,,,, | | | | 0.79 | 22.3 | 30.0 |
| AC030BXADCH | AC030BNHDCH | 208~230V/60Hz | | | | 2.10 | 23.6 | 30.0 |
| | AC030BNTDCH | | | | | 0.51 | 22.1 | 30.0 |
| | AC030BNZDCH | • | | | | 2.50 | 24.0 | 30.0 |
| | AC036BN4DCH | | | | 1.25 | 0.79 | 21.7 | 35.0 |
| | AC036BN6DCH | | | | | 0.79 | 21.7 | 35.0 |
| AC036BXADCH | AC036BNHDCH | | 14.7 | 1.25 | | 3.50 | 24.4 | 35.0 |
| | AC036BNTDCH | | | | | 0.51 | 21.4 | 35.0 |
| | AC036BNZDCH | | | | | 3.60 | 24.5 | 35.0 |
| | AC042BN4DCH | | | | | 0.79 | 29.5 | 40.0 |
| AC042BXADCH | AC042BN6DCH | | | | | 0.79 | 29.5 | 40.0 |
| | AC042BNHDCH | - | 20.9 | 1.25 | 1.25 | 3.50 | 32.2 | 40.0 |
| | AC042BNZDCH | | | | | 3.40 | 32.1 | 40.0 |
| | AC042BN2DCH AC048BN4DCH | | | | | 0.79 | 29.5 | 40.0 |
| | AC048BN6DCH | | 20.9 | 1.25 | 1.25 | 0.79 | 29.5 | 40.0 |
| AC048BXADCH | AC048BNHDCH | | | | | 3.50 | 32.2 | 40.0 |
| | | | | | | 4.10 | 32.8 | 40.0 |
| | AC048BNZDCH | | | | | 4.10 | JZ.ŏ | 40.0 |

Outdoor Units

NOTE

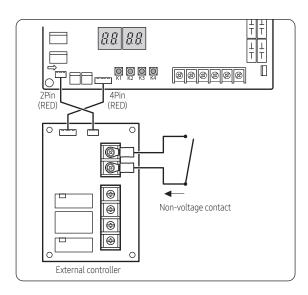
- RLA is based on AHRI 210/240 cooling standard condition [Indoor temp.: 26.7 °C / 80 °F(DB) / 19.46 °C / 67 °F(WB), Outdoor temp.: 35 °C / 95 °F(DB)]
- Voltage tolerance is ± 10 %.
- Maxium allowable voltage between phases is 2 %.

Symbols

- RLA: Rated Load Ampere (A)
- MOC: Maximum Operating Current (A)
- MCA: Minumum Circuit Ampere (A)
- MOP: Maximum Overcurrent Protective Device (A)
- Voltage range
 - Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- Maximum allowable voltage variation between phases is 2%.
- Wire size & type must comply with the applicable local and national code.
 - Wire size: Based on the value of MCA.
 - Wire type:

1-phase: 60245 IEC57(IEC) or H05RN-F(CENELEC) grade or more

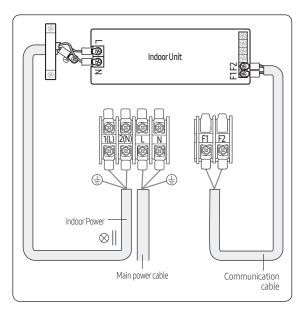
Silence mode controller wiring diagram with External controller



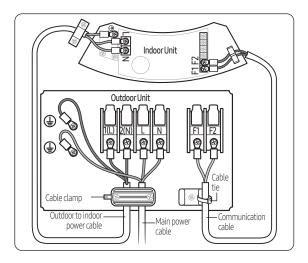
Outdoor Units

Connecting the outdoor-to-indoor power cable and the communication cable

AC009/012BXADCH



AC018BXADCH

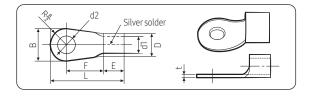


NOTE

- Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.
- Ground wire for the indoor unit and outdoor unit connection cable must be clamped to a soft copper tin-plated eyelet terminal with M4 screw hole(NOT SUPPLIED WITH UNIT ACCESSORIES).
- The appearance of the unit may be different from the picture depending on the model.

Outdoor-to-indoor power terminal specifications

- Connect the cables to the terminal board using the compressed ring terminal.
- Cover a solderless ring terminal and a connector part of the power cable and then connect it.



Outdoor Units

| Nominal | Nominal | | В | | D | C | 11 | Е | F | L | (| d2 | t | |
|---|---------------------------------------|-------------|-------------------------|-------------------------------|------------------------------|---|-------------------------|------------------------|------------------------|------------------------|-------------------------------------|-------------------------|------------------------|--------|
| dimensions for cable [mm2(inch2)] | dimensions for screw [mm(inch)] | dimension | Allowance [mm(inch)] | Standard dimension [mm(inch)] | Allowance [mm(inch)] | Standard dimension [mm(inch)] | Allowance [mm(inch)] | Min. [mm (inch)] | Min. [mm (inch)] | Max. [mm (inch)] | Standard dimension [mm(inch)] | Allowance [mm(inch)] | Min. [mm (inch)] | |
| 4/6 | 4(3/8) | 9.5(3/8) | ±0.2 | E 4/1/A\ | +0.3(+0.011) | 7 //1/0\ | ±0.2 | 6 (1/4) | 5 (3/16) | 20 (3/4) | 4.3 (3/16) | +0.2 (+0.007) 0(0) | 0.9 | |
| (0.006/ 0.009) | 8(3/16) | 15(9/16) | (±0.007) | 5.6(1/4) | -0.2(-0.007) | 3.4(1/8) | (±0.007) | 0 (1/4) | 9 (3/8) | 28.5 (1-1/8) | 8.4 (1-3/16) | +0.4 (+0.015) 0(0) | (0.03) | |
| 10(0.01) | 8(3/16) | 15(9/16) | ±0.2 (±0.007) | 7.1(1/4) | +0.3(+0.011) -0.2(-0.007) | 4.5(3/16) | ±0.2 (±0.007) | 7.9 (5/16) | 9 (3/8) | 30 (1-3/16) | 8.4 (1-3/16) | +0.4 (+0.015) 0(0) | 1.15 (0.04) | |
| 16(0.02) | 8(3/16) | 16(10/16) | ±0.2 (±0.007) | 9(3/8) | +0.3(+0.011) -0.2(-0.007) | 5.8(1/4) | ±0.2 (±0.007) | 9.5 (5/16) | 13 (1/2) | 33 (1-5/16) | 8.4 (1-3/16) | +0.4 (+0.015) 0(0) | 1.45 (0.05) | |
| 25(0.03) | 8(3/16) | 12(1/2) | ±0.3 | 11.5(7/16) | +0.5(+0.019) | 7.7(5/16) | ±0.2 | 11 (3/8) | 15 | 34 (1- | 8.4 (1-3/16) | +0.4 (+0.015) | 1.7 | |
| 25(0.05) | 8(3/16) | 16.5(10/16) | (+()()) | -0.2(-0.007) | -0.2(-0 | 7.7(3) 10) | (±0.007) | 11 (3/0) | 13 (1/2) | 3/8) | 8.4 (1-3/16) | 0(0) | (0.06) | |
| 75/0.05) | 8(3/16) | 16(10/16) | ±0.3 | 17 7/1 /2\ | +0.5(+0.019) | 9.4(3/8) | ±0.2 | 12.5 | 13 (1/2) | 38 (1-1/2) | 8.4 (1-3/16) | +0.4 (+0.015) | 1.8 | |
| 35(0.05) | 8(3/16) | 22(7/8) | (±0.011) | 15.5(1/2) -0.2(-0.007) | ±0.011) 13.3(1/2) -1 | 5 5 1 1 / / 1 1 1 1 1 1 1 1 | | (±0.007) | (1/2) | 13 (1/2) | 43 (1- 11/16) | 8.4 (1-3/16) | 0(0) | (0.07) |
| 50(0.07) | 8(3/16) | 22(7/8) | ±0.3 (±0.011) | 13.5(1/2) | +0.5(+0.019) -0.2(-0.007) | 11.4(7/16) | ±0.3 (±0.011) | 17.5 (11/16) | 14 (9/16) | 50 (2) | 8.4 (1-3/16) | + 0.4(+0.015) 0(0) | 1.8 (0.07) | |
| 70(0.10) | 8(3/16) | 24(1) | ±0.4 (±0.015) | 17.5(11/16) | +0.5(+0.019) -0.4(-0.015) | 13.3(1/2) | ±0.4 (±0.015) | 18.5 (3/4) | 20 (3/4) | 51 (2) | 8.4 (1-3/16) | + 0.4(+0.015) 0(0) | 2.0 (0.078) | |

- Connect the rated cables only.
- Connect using a driver which is able to apply the rated torque to the screws.
- If the terminal is loose, fire may occur caused by arc. If the terminal is connected too firmly, the terminal may be damaged.

| Tightening torque | | | | | |
|-------------------|--------------|------------|--|--|--|
| | lbf•ft | N•m | | | |
| M4 | 0.87 to 1.30 | 0.8 to 1.2 | | | |
| M5 | 1.45 to 2.17 | 2.0 to 3.0 | | | |

! CAUTION

- When connecting cables, you can connect the cables to the electrical part or connect them through the holes below depending on the spot.
- Connect the communication cable between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.
- Remove all burrs at the edge of the knock-out hole and secure the cable to the outdoor knock-out using lining and bushing with an electrical insulation such as rubber and so on.
- Must keep the cable in a protection tube.
- Keep distances of 1.97 inch(50mm) or more between power cable and communication cable.
- When the cables are connected through the hole, remove the Plate bottom.

Outdoor Units

Outdoor-to-indoor power and communication cables specifications

Indoor unit:
 1WAY CST(AC***BN1***)
 360CST(AC***BN6***)
 4WAY CST(AC***BN4***)
 Mini4way CST(AC***BNN***)
 Console(AC***BNJ***)
 RAC(AC***BNT***, AC***BNA***)

| Indoor power supply | | | | | |
|--|------|--|--|--|--|
| Power supply Max/Min (V) Indoor power cabl | | | | | |
| 1Ф, 208-230V~, 60Hz | ±10% | 0.0012 inch ² ↑ (0.75mm2 ↑), 3 wires | | | |
| Communication cable | | | | | |
| 0.0012 inch²↑ (0.75mm2 ↑), 2 wires | | | | | |

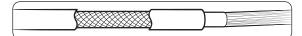
 Indoor unit : Duct(AC***BNL***, AC***BNH***)

| Indoor power supply | | | | | |
|---|------|---------------------------------------|--|--|--|
| Power supply Max/Min (V) Indoor power cable | | | | | |
| 1Ф, 208-230V~, 60Hz | ±10% | 0.0023 inch2 ↑ (1.5mm2 ↑), 3 wires | | | |
| Communication cable | | | | | |
| 0.0012 inch²↑ (0.75mm2 ↑), 2 wires | | | | | |

• Indoor unit : MPAH(AC***BNZ***)

| Indoorpowersupply | | | | | | |
|---|------|---------------------------------------|--|--|--|--|
| Power supply Max/Min (V) Indoor power cabl | | | | | | |
| 1Ф, 208-230V~, 60Hz | ±10% | 0.0039 inch2 ↑ (2.5mm2 ↑), 3 wires | | | | |
| Communication cable | | | | | | |
| 0.0012 inch ² ↑ (0.75mm2 ↑), 2 wires | | | | | | |

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F)
- When installing the indoor unit in a computer room or network room, use the double shielded (tape aluminum / polyester braid + copper) cable of FROHH2R type.





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