SAMSUNG

# EHS Technical Data Book

## EHS tank integrated Hydro Unit for Europe (Split, R32, 50Hz, HP)

Model : Outdoor unit (AE***RXED*G/EU)
Hydro unit (AE***RNWS*G/EU)

# History

| Version | Modification | Date | Remark |
|---|---|---|---|
| Ver.1.0 | Released EHS tank integrated Hydro Unit for Europe TDB (Split, R32, 50Hz, HP, 1st Version) | 19. 02. 01 | |
| Ver.1.1 | Released EHS tank integrated Hydro Unit for Europe TDB (Split, R32, 50Hz, HP) | 19. 05. 07 | |
| Ver.1.2 | Modified the Operation range | 19. 11. 04 | |
| Ver.1.3 | Modified the Hydro unit Dimensional drawing and minor specification | 20.03.04 | |
| Ver.2.0 | Updated some formats (Specification, Drawing) | 21.08.27 | |
| Ver.2.1 | Modified some contents | 21. 11. 12 | |

# Nomenclature

## Outdoor Unit

### Model Name

| AE | 040 | R | X | E | D | E | G | / | EU |
|---|---|---|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | Buyer |

(1) Classification

| | |
|---|---|
| AC | CAC |
| AM | DVM |
| AJ | FJM (Free Joint Multi) |
| AE | EHS |

(2) Capacity

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

(3) Version

| | |
|---|---|
| R | 2019 |

(4) Product Type

| | |
|---|---|
| S | SET (NASA) |
| N | Indoor Unit (NASA) |
| X | Outdoor Unit (NASA) |
| A | SET (Non NASA) |
| B | Indoor Unit (Non NASA) |
| C | Outdoor Unit (Non NASA) |

(5) Feature 1

| | |
|---|---|
| E | Split |
| T | TDM |
| Y | MONO |

(6) Feature 2

| | |
|---|---|
| D | Deluxe |
| P | Premium |

(7) Rating Voltage

| | |
|---|---|
| A | 115V, 60hz, 1Φ |
| B | 220V, 60Hz, 1Φ |
| C | 208~230V, 60Hz, 1Φ |
| D | 200~220V, 50Hz, 1Φ |
| E | 220~240V, 50Hz, 1Φ |
| F | 208~230V, 60Hz, 3Φ |
| G | 380~415V, 50Hz, 3Φ |

(8) Mode

| | |
|---|---|
| G | Heat Pump (R32) |

# Nomenclature

## Tank integrated hydro unit

### Model Name

| AE | 200 | R | N | W | S | E | G | / | EU |
|---|---|---|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | Buyer |

(1) Classification

| | |
|---|---|
| AC | CAC |
| AM | DVM |
| AJ | FJM (Free Joint Multi) |
| AE | EHS |

(2) Capacity

| |
|---|
| x Liter (3 digits) |

(3) Version

| | |
|---|---|
| R | 2019 |

(4) Product Type

| | |
|---|---|
| S | SET (NASA) |
| N | Indoor Unit (NASA) |
| X | Outdoor Unit (NASA) |
| A | SET (Non NASA) |
| B | Indoor Unit (Non NASA) |
| C | Outdoor Unit (Non NASA) |

(5) Product Notation

| | |
|---|---|
| W | Tank integrated hydro unit |

(6) Feature

| | |
|---|---|
| S | Split |
| M | Mono |

(7) Rating Voltage

| | |
|---|---|
| A | 115V, 60hz, 1Φ |
| B | 220V, 60Hz, 1Φ |
| C | 208~230V, 60Hz, 1Φ |
| D | 200~220V, 50Hz, 1Φ |
| E | 220~240V, 50Hz, 1Φ |
| F | 208~230V, 60Hz, 3Φ |
| G | 380~415V, 50Hz, 3Φ |

(8) Mode

| | |
|---|---|
| G | Heat Pump (R32) |

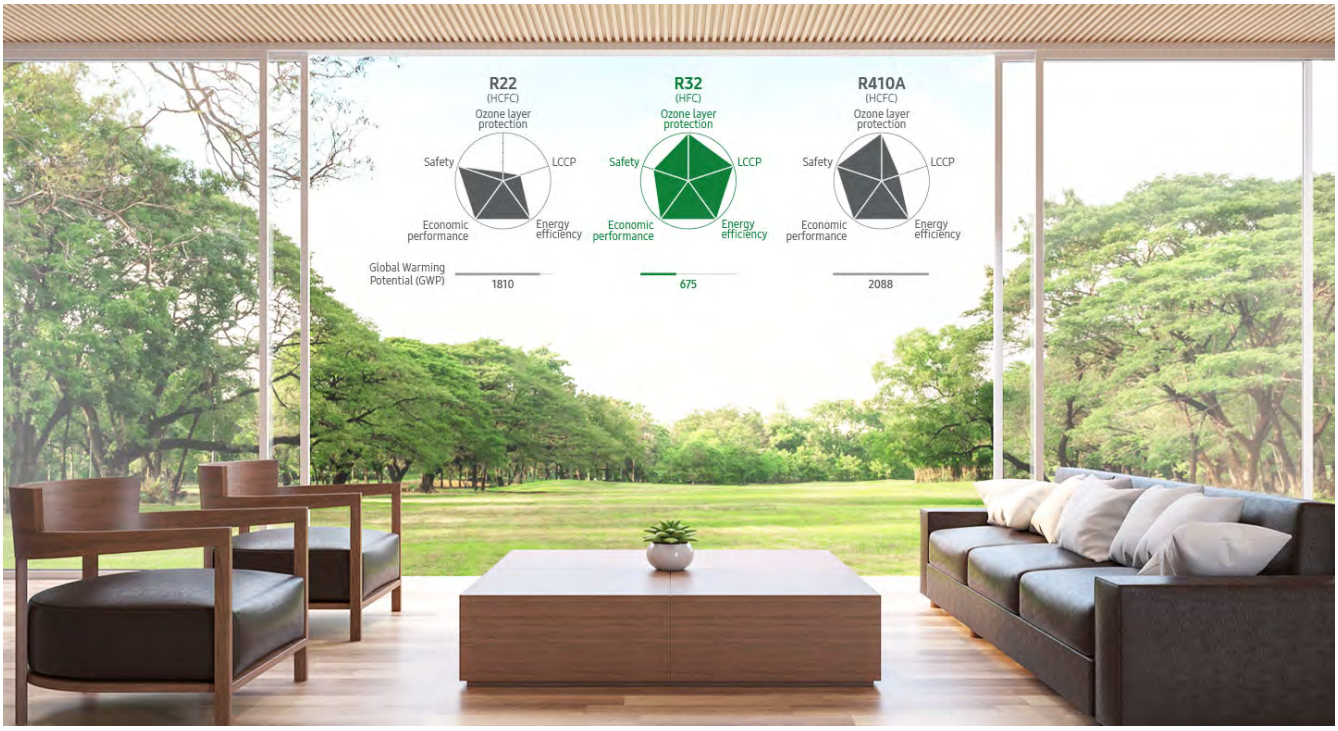
# Features & Benefits

## Tank integrated hydro unit

# Eco-friendly heating – zero ozone impact

### Eco-friendly Refrigerant R32

Reduce the impact on climate change with a Samsung EHS (Eco Heating System). The R32 refrigerant has an Ozone Depletion Potential (ODP) of zero and a lower Global Warming Potential (GWP) than conventional refrigerants*. It also reduces the amount of refrigerant needed and cuts CO2 emissions**.



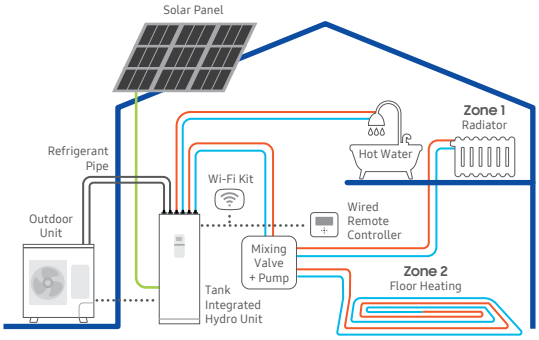

* GWP rating: R32 refrigerant = 675 vs. R410A refrigerant = 2088.
** The Samsung EHS MONO, SPLIT (R32) only requires 83% of the refrigerant used in a conventional heating system (R410A) of the same capacity. So the level of CO2 emissions of the EHS is 560 (675 x 0.83), which is 73% less than the 2088 produced by a conventional heating system.

## Split

The hydraulic parts of the Samsung EHS Split are not included in the outdoor unit. Instead they are in an indoor Hydro Unit that is connected by a refrigerant pipe. So, it can be installed just like a conventional air conditioning system.

### ClimateHub Split

Outdoor Unit + Tank Integrated Hydro Unit




Radiator Floor heating Hot water

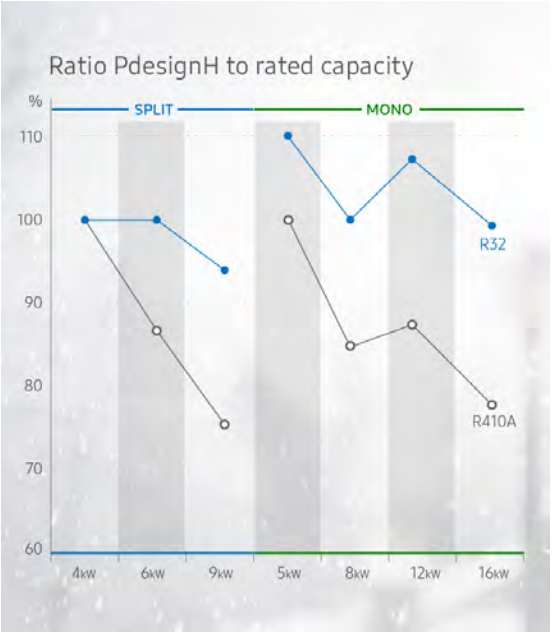
- Seasonal space heating efficiency: A+++ ~ A+ (on average)
- Leaving water temperature: Up to 55~65°C
- Capacities: 4, 6, 9, 12, 16kW
- Refrigerant: R32, R410A
- Refrigerant piping from an outdoor unit
- Power supply: 1Φ 220~240V, 3Φ 380~415V

# Features & Benefits

## A+++ energy efficiency saves even more

### Top Class Energy Efficiency - SCOP A+++

Worry less about the cost of your heating. It has the top class SCOP A+++ energy efficiency rating across the entire range of capacities*. So it is proven to operate with a high level of efficiency, achieving a good heating performance using R32 refrigerant, which has a high PdesignH (kW)**.

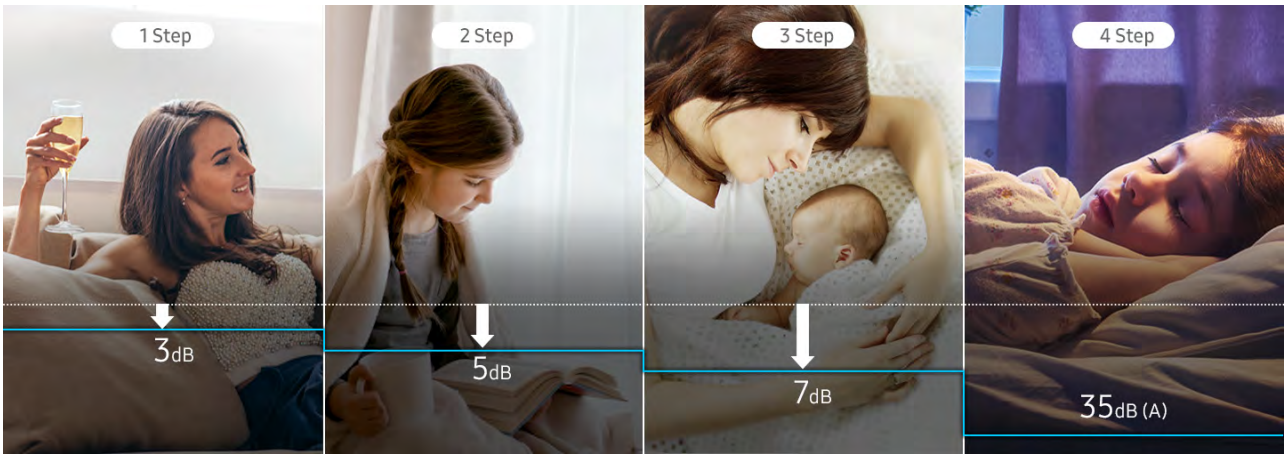



* Based on testing defined in EN14825.
** PdesignH is over 100% of the rated capacity, which ensures sufficient heating performance at low temperatures. Based on a standard of -10°C (rating: standard 7°C conditions).

## Adjustable, 4-step, low-noise operation

### 4-Step Quiet Mode

Makes less noise when you need to, so it doesn't disturb you or your neighbors. The 4-Step Quiet Mode enables adjustable low-noise operation to meet strict sound level requirements*. Simply select from four different steps to reduce the sound level by 3dB, 5dB, 7dB* or keep it as low as 35dB(A)*.




* Based on internal testing of the 6kW and 9kW SPLIT outdoor units (AE060RXEDEG, AE090RXEDEG, AE090RXEDGG). The noise level is measured 3m away from the front of the outdoor unit, in an anechoic room with an outside temperature of 7°C. Results may vary depending on the model (capacity), environmental factors and individual use.

# Features & Benefits

## Reduce energy usage and save money

### Various Functions for Energy Saving

Save energy with advanced functions. The 2-Zone Control optimizes the temperature in two separate zones. The Photovoltaic Enabled feature checks the status of solar panels and reduces network electricity usage. And Smart Grid Ready helps you utilize economical and sustainable power options.

## Easy remote control with a smartphone

### Smart Connectivity

Control your Samsung EHS on the go. Smart Connectivity lets you turn it on/off anytime and anywhere using the SmartThings App*. And, with the touch controller, you can control the mode and settings, schedule it to start/stop, monitor energy use, adjust summer time settings and identify errors.

* Available on Android and iOS devices. A Wi-Fi connection, Samsung account and an optional Wi-Fi Kit (MIM-H04N) are required.

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# 1. Line-up

## 1-1. Outdoor Units

| Capacity | | 4.4 / 6.6 kW | 9.0 kW |
|---|---|---|---|
| Image | | | |
| Model | 1phase | AE040RXEDEG/EU<br>AE060RXEDEG/EU | AE090RXEDEG/EU |
| | 3phase | - | AE090RXEDGG/EU |

## 1-2. Tank integrated hydro unit

| Type \ Capacity | 200L | 260L |
|---|---|---|
| Model | AE200RNWSEG/EU | AE260RNWSEG/EU<br>AE260RNWSGG/EU |
| Hydro Unit | | |

# 2. Outdoor Units

## 2-1. Specifications

| Model Name | | Indoor Unit | | | | AE200RNWSEG/EU | AE200RNWSEG/EU | AE200RNWSEG/EU |
|---|---|---|---|---|---|---|---|---|
| | | Outdoor Unit | | | | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Power Supply | | | | | Φ, #, V, Hz | 1,2,220-240,50 | 1,2,220-240,50 | 1,2,220-240,50 |
| Mode | | | | | - | Heat Pump (A2W) | Heat Pump (A2W) | Heat Pump (A2W) |
| System | Performance | Capacity | Cooling | A2W Condition #1 (A7/W35) 1)* | W | 5,000 | 6,500 | 8,700 |
| | | | | | Btu/h | 17,100 | 22,200 | 29,700 |
| | | | Heating | A2W Condition #1 (A7/W35) 1)* | W | 4,400 | 6,000 | 9,000 |
| | | | | | Btu/h | 15,000 | 20,500 | 30,700 |
| | | | | A2W condition #2 | W | 4,200 | 5,600 | 8,600 |
| | | | | A2W condition #3 | | 3,900 | 5,200 | 8,000 |
| | | | | A2/W35 4)* | | 4,200 | 5,200 | 7,700 |
| | | | | A-7/W35 4)* | | 4,600 | 5,500 | 7,900 |
| | Power | Power Input | Cooling | A2W Condition #1 (A7/W35) 1)* | W | 1,090 | 1,470 | 2,110 |
| | | | Heating | A2W Condition #1 (A7/W35) 1)* | | 846 | 1,220 | 1,870 |
| | | | | A2W condition #2 | | 1,090 | 1,510 | 2,330 |
| | | | | A2W condition #3 | | 1,320 | 1,810 | 2,730 |
| | | | | A2/W35 4)* | | 1,100 | 1,480 | 2,260 |
| | | | | A-7/W35 4)* | | 1,550 | 2,000 | 2,900 |
| | | Current Input | Cooling | A2W Condition #1 (A7/W35) 1)* | A | 4.90 | 6.70 | 9.70 |
| | | | Heating | | | 3.90 | 5.60 | 8.60 |
| | | Current | MCA | | A | 16.0 | 16.0 | 22.0 |
| | | | MFA | | A | 20.0 | 20.0 | 27.5 |
| | Efficiency | EER (Nominal Cooling) A2W condition #1 | | | | 4.59 | 4.42 | 4.12 |
| | | COP (Nominal Heating) A2W condition #1 | | | | 5.20 | 4.92 | 4.81 |
| | | COP | | A2W condition #2 | W/W | 3.85 | 3.71 | 3.69 |
| | | | | A2W condition #3 | | 2.95 | 2.87 | 2.93 |
| | | | | A2/W35 4)* | | 3.82 | 3.51 | 3.41 |
| | | | | A-7/W35 4)* | | 2.97 | 2.75 | 2.72 |
| | | PdesignH (LWT 35°C) | | | | 5,000 | 6,000 | 8,500 |
| | | SCOP (35°C) | | | | 4.58 | 4.58 | 4.45 |
| | | SCOP Class (35°C) | | | | A+++ | A+++ | A+++ |
| | | SEER | | | | 4.40 | 4.73 | 5.09 |
| | Refrigerant | Piping Connections | | Liquid Pipe | Φ, mm | 6.35 | 6.35 | 6.35 |
| | | | | | Φ, inch | 1/4 | 1/4 | 1/4 |
| | | | | Gas Pipe | Φ, mm | 15.88 | 15.88 | 15.88 |
| | | | | | Φ, inch | 5/8 | 5/8 | 5/8 |
| | | Piping length (ODU IDU) | | Max.[Equiv.] | m | 30 | 30 | 35 |
| | | Level difference (IDU IDU) | | Max. | m | 20 | 20 | 20 |
| | | Chargeless Length | | | m | 15 | 15 | 15 |
| | | Type | | | - | R32 | R32 | R32 |
| | | Factory Charging | | | kg | 1.2 | 1.2 | 1.4 |
| | | | | | $tCO_2e$ | 0.81 | 0.81 | 0.95 |
| | | Control Method | | | - | EEV | EEV | EEV |
| Outdoor Unit | Compressor | Type | | | - | BLDC Twin Rotary | BLDC Twin Rotary | BLDC Twin Rotary |
| | | Model Name | | | - | UB4TN8200FE4SS | UB4TN8200FE4SS | UB8TN8265FJWSG |
| | | Oil | | Type | - | POE /650 | POE /650 | POE/700 |
| | | Quantity | | | EA | 1 | 1 | 1 |
| | | Output | | | W | 1623 | 1623 | 2078 |
| | | Starting method | | | - | Inverter driven | Inverter driven | Inverter driven |
| | Heat exchanger | Length | | | mm | 906.8 | 906.8 | 950 |
| | | Rows | Quantity | | EA | 2 | 2 | 2 |
| | | Fin pitch | | | mm | 1.5 | 1.5 | 1.5 |
| | | Passes | Quantity | | EA | 4 | 4 | 8 |
| | | Face area | | | $m^2$ | 0.53 | 0.53 | 0.92 |
| | | Stages | Quantity | | EA | 28 | 28 | 46 |
| | | Tube type | | | - | Φ7 | Φ7 | Φ7 |
| | | Fin | Type | | - | Corrugate | Corrugate | Wide Louver |
| | | | Treatment | | - | NGS | NGS | Anti Salt |

# 2. Outdoor Units

## 2-1. Specifications

| Model Name | | Indoor Unit | | | AE200RNWSEG/EU | AE200RNWSEG/EU | AE200RNWSEG/EU |
|---|---|---|---|---|---|---|---|
| | | Outdoor Unit | | | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Outdoor Unit | Fan | Type | | - | Propeller Fan | Propeller Fan | Propeller Fan |
| | | Discharge direction | | - | Horizontal | Horizontal | Horizontal |
| | | Air Flow Rate | Heating | m³/min | 40 | 43 | 66 |
| | | | Cooling | m³/min | 40 | 43 | 66 |
| | Fan motor | Quantity | | EA | 1 | 1 | 1 |
| | | Model | | - | Brushless DC motor | Brushless DC motor | Brushless DC motor |
| | | Output | | W | 68 | 68 | 125 |
| | | Drive | | - | Direct drive | Direct drive | Direct drive |
| | | Speed | Heating | rpm | 740 | 800 | 780 |
| | | | Cooling | rpm | 740 | 800 | 780 |
| | Sound | Sound Pressure | Heating | dB(A) | 44 | 47 | 49 |
| | | | Cooling | dB(A) | 46 | 47 | 49 |
| | | | Night Mode | dB(A) | - | 35 | 35 |
| | | Sound Power | Heating | dB(A) | 58 | 60 | 64 |
| | | | Cooling | dB(A) | 61 | 62 | 63 |
| | Casing | Color | | - | Earth brown | Earth brown | Earth brown |
| | | Material | | - | Poweder coated Galvanised steel | Poweder coated Galvanised steel | Poweder coated Electro galvanized steel |
| | Packing | Material | | - | EPS/BOX | EPS/BOX | EPS/BOX |
| | | Weight | | kg | 3.0 | 3.0 | 8.5 |
| | External Dimension | Net Weight | | kg | 46.5 | 46.5 | 73.0 |
| | | Shipping Weight | | kg | 49.5 | 49.5 | 81.5 |
| | | Net Dimensions (WxHxD) | | mm | 880 x 638 x 310 | 880 x 638 x 310 | 940 x 998 x 330 |
| | | Shipping Dimensions (WxHxD) | | mm | 1,023 x 725 x 413 | 1,023 x 725 x 413 | 995 x 1,178 x 426 |
| | Operating Temp. Range | Heating | | ℃ | -25~35 | -25~35 | -25~35 |
| | | Cooling | | ℃ | 10~46 | 10~46 | 10~46 |
| | | D.Hot Water | | ℃ | -25~43 | -25~43 | -25~43 |

### NOTE

- Specifications may be subject to change without prior notice.
  1)* A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].
  2)* A2W Condition #2 : (Heating) Water In/Out 40°C/45°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 12°C/7°C, Outdoor Air 35°C[DB].
  3)* A2W Condition #3 : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].
  4)* A2W Condition : (A2W35) Water In/Out -/35°C, Outdoor Air 2°C[DB]/1°C[WB]; (A-7/W35) Water In/Out -/35°C, Outdoor Air -7°C[DB]/-(※ Peak Capacity)
- Select wire size based on the value of MCA
- 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.
  - Sound pressure level in Night Mode is measured 3m away from front side of outdoor unit.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20uPa
- 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
- These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
- The system is operated in (-25°C ≤ Outdoor temp. < -20°C) condition, but no guarantee of capacity.
- The system is operated by only Booster Heater in special condition (35 °C < Outdoor temp. ≤ 43°C).

# 2. Outdoor Units

## 2-1. Specifications

| Model Name | | Indoor Unit | | | | AE260RNWSGG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU |
|---|---|---|---|---|---|---|---|---|---|
| | | Outdoor Unit | | | | AE090RXEDGG/EU | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Power Supply | | | | | Φ, #, V, Hz | 3,4,380-415,50 | 1,2,220-240,50 | 1,2,220-240,50 | 1,2,220-240,50 |
| Mode | | | | | - | Heat Pump (A2W) | Heat Pump (A2W) | Heat Pump (A2W) | Heat Pump (A2W) |
| System | Performance | Capacity | Cooling | A2W Condition #1 (A7/W35) 1)* | W | 8,700 | 5,000 | 6,500 | 8,700 |
| | | | | | Btu/h | 29,700 | 17,100 | 22,200 | 29,700 |
| | | | Heating | A2W Condition #1 (A7/W35) 1)* | W | 9,000 | 4,400 | 6,000 | 9,000 |
| | | | | | Btu/h | 30,700 | 15,000 | 20,500 | 30,700 |
| | | | | A2W condition #2 | W | 8,600 | 4,200 | 5,600 | 8,600 |
| | | | | A2W condition #3 | | 8,000 | 3,900 | 5,200 | 8,000 |
| | | | | A2/W35 4)* | | 7,700 | 4,200 | 5,200 | 7,700 |
| | | | | A-7/W35 4)* | | 7,900 | 4,600 | 5,500 | 7,900 |
| | Power | Power Input | Cooling | A2W Condition #1 (A7/W35) 1)* | W | 2,110 | 1,090 | 1,470 | 2,110 |
| | | | Heating | A2W Condition #1 (A7/W35) 1)* | | 1,870 | 846 | 1,220 | 1,870 |
| | | | | A2W condition #2 | | 2,330 | 1,090 | 1,510 | 2,330 |
| | | | | A2W condition #3 | | 2,730 | 1,320 | 1,810 | 2,730 |
| | | | | A2/W35 4)* | | 2,260 | 1,100 | 1,480 | 2,260 |
| | | | | A-7/W35 4)* | | 2,900 | 1,550 | 2,000 | 2,900 |
| | | Current Input | Cooling | A2W Condition #1 (A7/W35) 1)* | A | 3.40 | 4.90 | 6.70 | 9.70 |
| | | | Heating | | | 3.00 | 3.90 | 5.60 | 8.60 |
| | | Current | MCA | | A | 10.0 | 16.0 | 16.0 | 22.0 |
| | | | MFA | | A | 16.1 | 20.0 | 20.0 | 27.5 |
| | Efficiency | EER (Nominal Cooling) A2W condition #1 | | | | 4.12 | 4.59 | 4.42 | 4.12 |
| | | COP (Nominal Heating) A2W condition #1 | | | | 4.81 | 5.20 | 4.92 | 4.81 |
| | | COP | | A2W condition #2 | W/W | 3.69 | 3.85 | 3.71 | 3.69 |
| | | | | A2W condition #3 | | 2.93 | 2.95 | 2.87 | 2.93 |
| | | | | A2/W35 4)* | | 3.41 | 3.82 | 3.51 | 3.41 |
| | | | | A-7/W35 4)* | | 2.72 | 2.97 | 2.75 | 2.72 |
| | | PdesignH (LWT 35°C) | | | | 8,500 | 5,000 | 6,000 | 8,500 |
| | | SCOP (35°C) | | | | 4.45 | 4.58 | 4.58 | 4.45 |
| | | SCOP Class (35°C) | | | | A+++ | A+++ | A+++ | A+++ |
| | | SEER | | | | 5.09 | 4.40 | 4.73 | 5.09 |
| | Refrigerant | Piping Connections | | Liquid Pipe | Φ, mm | 6.35 | 6.35 | 6.35 | 6.35 |
| | | | | | Φ, inch | 1/4 | 1/4 | 1/4 | 1/4 |
| | | | | Gas Pipe | Φ, mm | 15.88 | 15.88 | 15.88 | 15.88 |
| | | | | | Φ, inch | 5/8 | 5/8 | 5/8 | 5/8 |
| | | Piping length (ODU IDU) | | Max.[Equiv.] | m | 35 | 30 | 30 | 35 |
| | | Level difference (IDU IDU) | | Max. | m | 20 | 20 | 20 | 20 |
| | | Chargeless Length | | | m | 15 | 15 | 15 | 15 |
| | | Type | | | - | R32 | R32 | R32 | R32 |
| | | Factory Charging | | | kg | 1.4 | 1.2 | 1.2 | 1.4 |
| | | | | | $tCO_2e$ | 0.95 | 0.81 | 0.81 | 0.95 |
| | | Control Method | | | - | EEV | EEV | EEV | EEV |
| Outdoor Unit | Compressor | Type | | | - | BLDC Twin Rotary | BLDC Twin Rotary | BLDC Twin Rotary | BLDC Twin Rotary |
| | | Model Name | | | - | UB8TN8265FJWSG | UB4TN8200FE4SS | UB4TN8200FE4SS | UB8TN8265FJWSG |
| | | Oil | | Type | - | POE/700 | POE /650 | POE /650 | POE/700 |
| | | Quantity | | | EA | 1 | 1 | 1 | 1 |
| | | Output | | | W | 2078 | 1623 | 1623 | 2078 |
| | | Starting method | | | - | Inverter driven | Inverter driven | Inverter driven | Inverter driven |
| | Heat exchanger | Length | | | mm | 950 | 906.8 | 906.8 | 950 |
| | | Rows | Quantity | | EA | 2 | 2 | 2 | 2 |
| | | Fin pitch | | | mm | 1.5 | 1.5 | 1.5 | 1.5 |
| | | Passes | Quantity | | EA | 8 | 4 | 4 | 8 |
| | | Face area | | | $m^2$ | 0.92 | 0.53 | 0.53 | 0.92 |
| | | Stages | Quantity | | EA | 46 | 28 | 28 | 46 |
| | | Tube type | | | - | Φ7 | Φ7 | Φ7 | Φ7 |
| | | Fin | Type | | - | Wide Louver | Corrugate | Corrugate | Wide Louver |
| | | | Treatment | | - | Anti Salt | NGS | NGS | Anti Salt |

# 2. Outdoor Units

## 2-1. Specifications

| Model Name | | Indoor Unit | | | AE260RNWSGG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU |
|---|---|---|---|---|---|---|---|---|
| | | Outdoor Unit | | | AE090RXEDGG/EU | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Outdoor Unit | Fan | Type | | - | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | | Discharge direction | | - | Horizontal | Horizontal | Horizontal | Horizontal |
| | | Air Flow Rate | Heating | m³/min | 66 | 40 | 43 | 66 |
| | | | Cooling | m³/min | 66 | 40 | 43 | 66 |
| | Fan motor | Quantity | | EA | 1 | 1 | 1 | 1 |
| | | Model | | - | Brushless DC motor | Brushless DC motor | Brushless DC motor | Brushless DC motor |
| | | Output | | W | 125 | 68 | 68 | 125 |
| | | Drive | | - | Direct drive | Direct drive | Direct drive | Direct drive |
| | | Speed | Heating | rpm | 780 | 740 | 800 | 780 |
| | | | Cooling | rpm | 780 | 740 | 800 | 780 |
| | Sound | Sound Pressure | Heating | dB(A) | 49 | 44 | 47 | 49 |
| | | | Cooling | dB(A) | 49 | 46 | 47 | 49 |
| | | | Night Mode | dB(A) | 35 | - | 35 | 35 |
| | | Sound Power | Heating | dB(A) | 64 | 58 | 60 | 64 |
| | | | Cooling | dB(A) | 63 | 61 | 62 | 63 |
| | Casing | Color | | - | Earth brown | Earth brown | Earth brown | Earth brown |
| | | Material | | - | Poweder coated Electro galvanized steel | Poweder coated Galvanised steel | Poweder coated Galvanised steel | Poweder coated Electro galvanized steel |
| | Packing | Material | | - | EPS/BOX | EPS/BOX | EPS/BOX | EPS/BOX |
| | | Weight | | kg | 8.5 | 3.0 | 3.0 | 8.5 |
| | External Dimension | Net Weight | | kg | 72.0 | 46.5 | 46.5 | 73.0 |
| | | Shipping Weight | | kg | 80.5 | 49.5 | 49.5 | 81.5 |
| | | Net Dimensions (WxHxD) | | mm | 940 x 998 x 330 | 880 x 638 x 310 | 880 x 638 x 310 | 940 x 998 x 330 |
| | | Shipping Dimensions (WxHxD) | | mm | 995 x 1,178 x 426 | 1,023 x 725 x 413 | 1,023 x 725 x 413 | 995 x 1,178 x 426 |
| | Operating Temp. Range | Heating | | ℃ | -25~35 | -25~35 | -25~35 | -25~35 |
| | | Cooling | | ℃ | 10~46 | 10~46 | 10~46 | 10~46 |
| | | D.Hot Water | | ℃ | -25~43 | -25~43 | -25~43 | -25~43 |

### NOTE

- Specifications may be subject to change without prior notice.
  1)* A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].
  2)* A2W Condition #2 : (Heating) Water In/Out 40°C/45°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 12°C/7°C, Outdoor Air 35°C[DB].
  3)* A2W Condition #3 : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].
  4)* A2W Condition : (A2W35) Water In/Out -/35°C, Outdoor Air 2°C[DB]/1°C[WB]; (A-7/W35) Water In/Out -/35°C, Outdoor Air -7°C[DB]/-(※ Peak Capacity)
- Select wire size based on the value of MCA
- 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.
  - Sound pressure level in Night Mode is measured 3m away from front side of outdoor unit.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20uPa
- 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
- These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
- The system is operated in (-25°C ≤ Outdoor temp. < -20°C) condition, but no guarantee of capacity.
- The system is operated by only Booster Heater in special condition (35 °C < Outdoor temp. ≤ 43°C).

# 2. Outdoor Units

## 2-2. Electrical characteristics

| Capacity [kW] | Model | Power Supply | | | | Voltage Range [V] | | Nominal Running Current [A] | | Current [A] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Φ | # | Hz | Voltage | Min. (-10%) | Max. (+10%) | Cooling | Heating | MCA | MFA |
| **4.4** | AE040RXEDEG/EU | 1 | 2 | 50 | 220~240 | 198 | 264 | 4.9 | 3.9 | 16.0 | 20.0 |
| **6.0** | AE060RXEDEG/EU | 1 | 2 | 50 | 220~240 | 198 | 264 | 6.7 | 5.6 | 16.0 | 20.0 |
| **9.0** | AE090RXEDEG/EU | 1 | 2 | 50 | 220~240 | 198 | 264 | 9.7 | 8.6 | 22.0 | 27.5 |
| **9.0** | AE090RXEDGG/EU | 3 | 4 | 50 | 380~415 | 342 | 456 | 3.4 | 3.0 | 10.0 | 16.1 |

**NOTE**

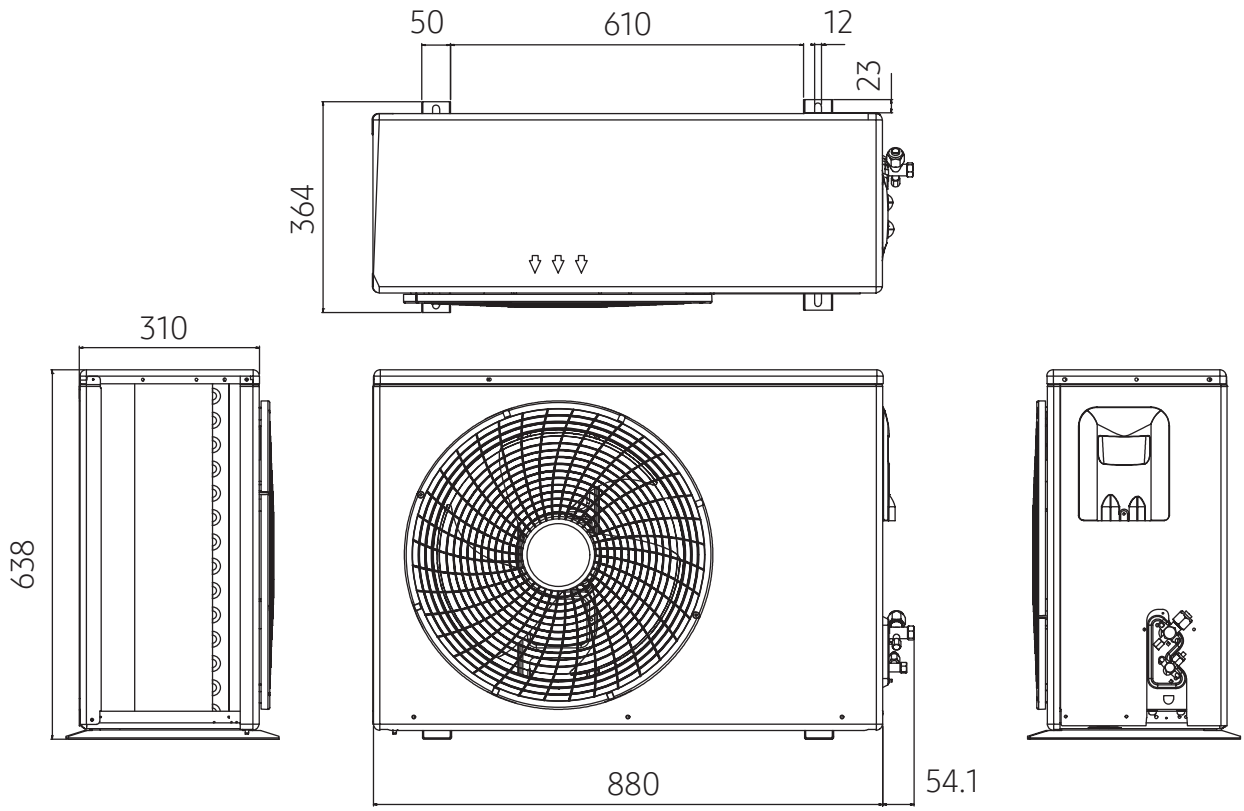
- MCA : Mimium circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

# 2. Outdoor Units

## 2-3. Dimensional drawing

### AE040/060RXEDEG/EU

Unit : mm

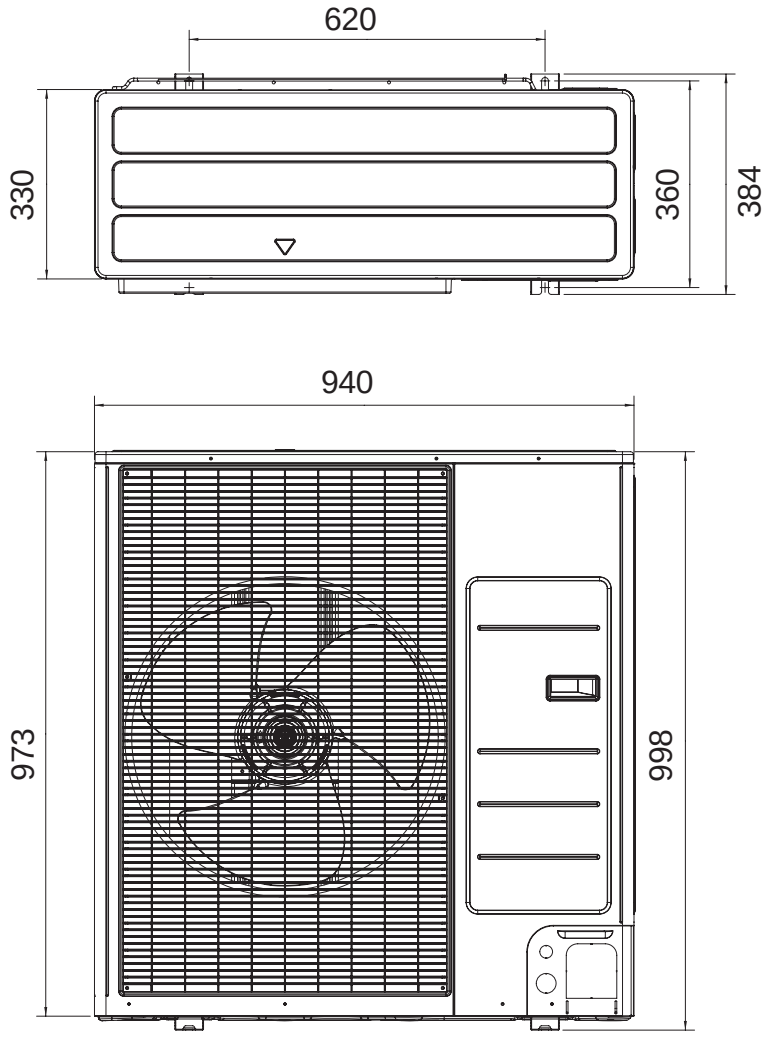


# 2. Outdoor Units

## 2-3. Dimensional drawing

### AE090RXED*G/EU

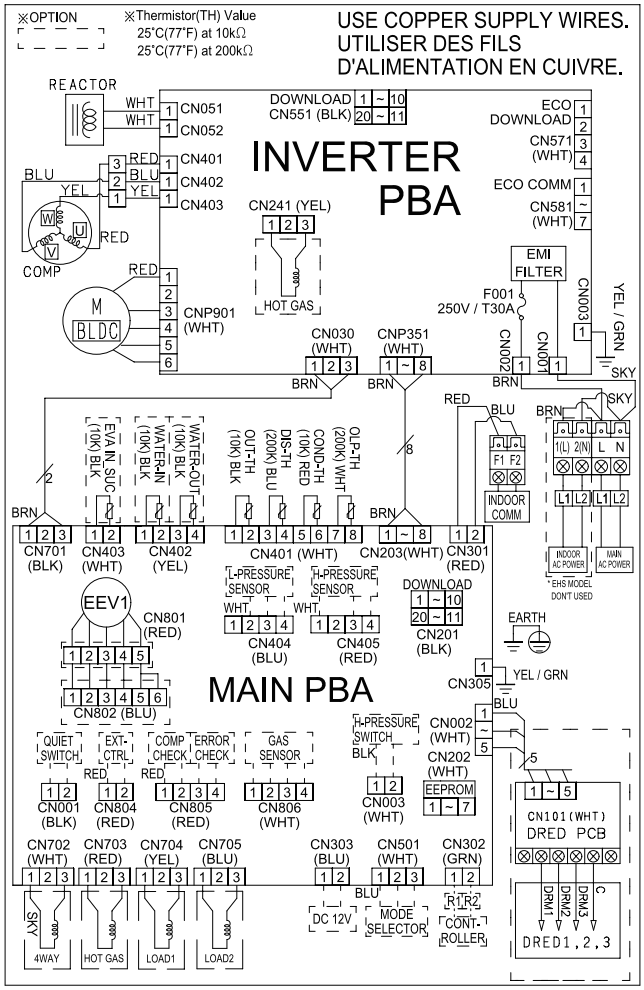
Unit : mm



# 2. Outdoor Units

## 2-4. Electrical wiring diagram

### AE040/060RXEDEG/EU




| | | | |
|---|---|---|---|
| M BLDC | BLDC FAN MOTOR | COMP | COMPRESSOR |
| OUT-TH | Thermistor OUT(10K) | DIS-TH | Thermistor DISCHARGE(200K) |
| COND-TH | Thermistor COND(10K) | OLP-TH | Thermistor OLP(200K) |

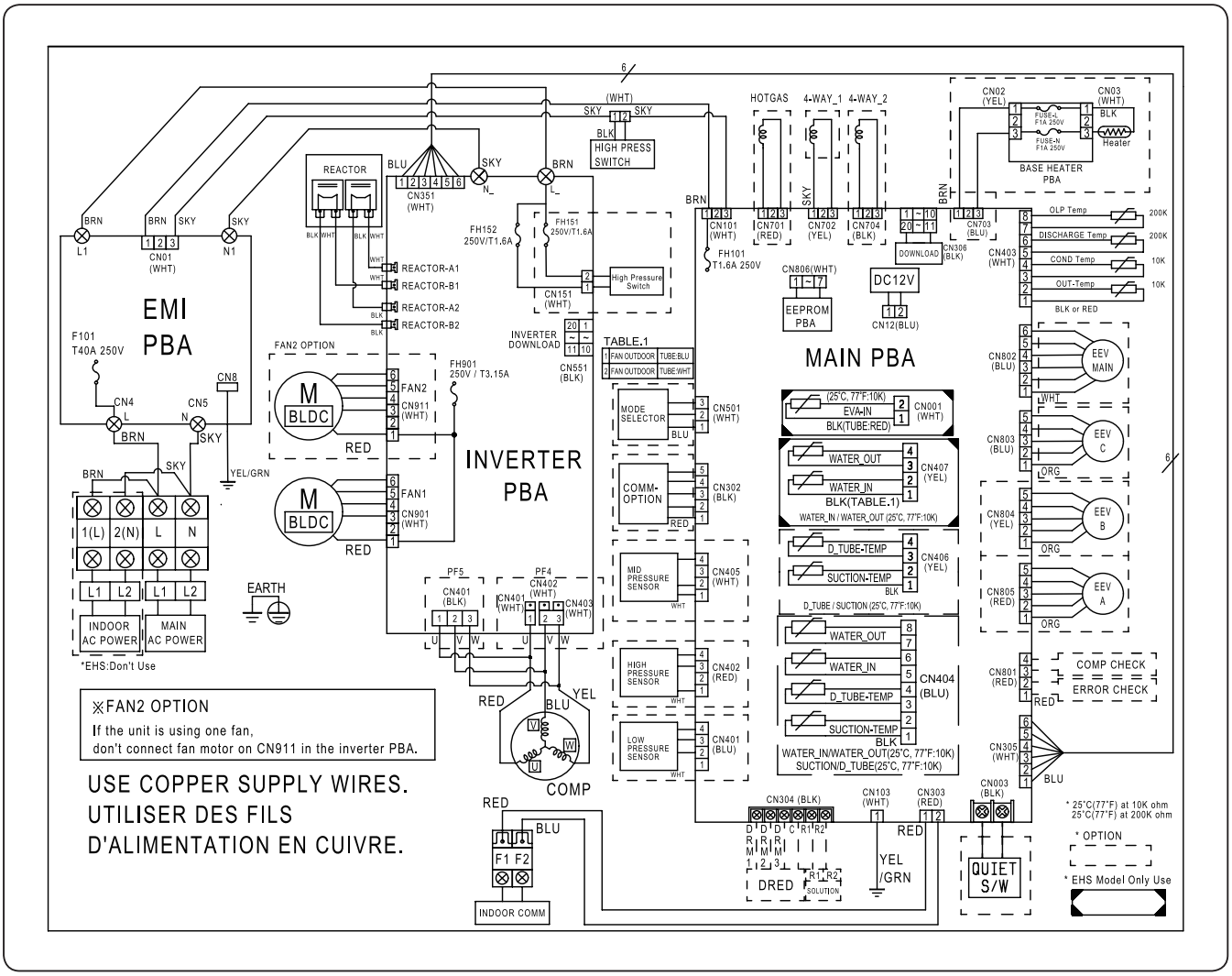
### NOTE

1. This wiring diagram applies only to the Outdoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

# 2. Outdoor Units

## 2-4. Electrical wiring diagram

### AE090RXEDEG/EU




| | | | |
|---|---|---|---|
| M BLDC | BLDC FAN MOTOR | COMP | COMPRESSOR |
| Comm | Communication | OUT-Temp | Thermistor OUT(10K) |
| COND-Temp | Thermistor COND(10K) | DISCHARGE-Temp | Thermistor DISCHARGE(200K) |
| OLP-Temp | Thermistor OLP(200K) | SUCTION-TEMP | Thermistor SUCTION(10K) |

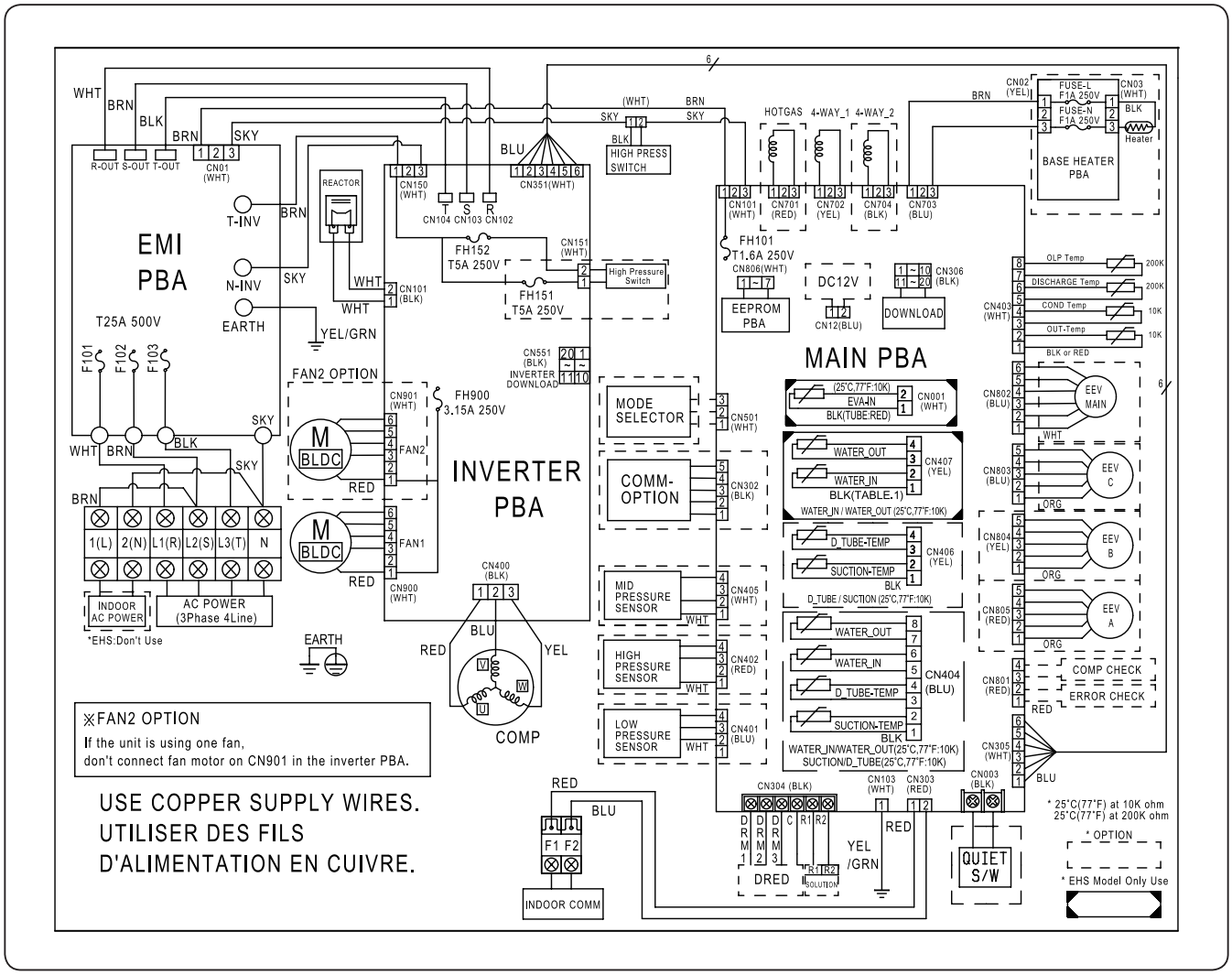
### NOTE

1. This wiring diagram applies only to the Outdoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

# 2. Outdoor Units

## 2-4. Electrical wiring diagram

### AE090RXEDGG/EU




| | | | |
|---|---|---|---|
| M BLDC | BLDC FAN MOTOR | COMP | COMPRESSOR |
| Comm | Communication | OUT-Temp | Thermistor OUT(10K) |
| COND-Temp | Thermistor COND(10K) | DISCHARGE-Temp | Thermistor DISCHARGE(200K) |
| OLP-Temp | Thermistor OLP(200K) | SUCTION-TEMP | Thermistor SUCTION(10K) |

### NOTE

1. This wiring diagram applies only to the Outdoor unit.
2. Symbols show as follow :
   blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
4. ⏚ Protective earth(SCREW)

# 2. Outdoor Units

## 2-5. Sound data

### Summary

| Capacity (kW) | Model | Sound Pressure dB(A) | | Sound Power dB(A) |
|---|---|---|---|---|
| | | Cooling | Heating | Heating |
| 4.4 | AE040RXEDEG/EU | 46 | 44 | 58 |
| 6.0 | AE060RXEDEG/EU | 47 | 47 | 60 |
| 9.0 | AE090RXEDEG/EU | 49 | 49 | 64 |
| 9.0 | AE090RXEDGG/EU | 49 | 49 | 64 |

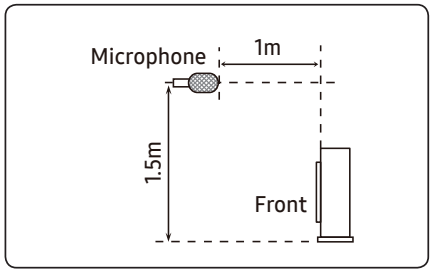
**NOTE**

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - 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
- Sound Power Level
  - 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.

# 2. Outdoor Units

## 2-5. Sound data

### Sound Pressure level

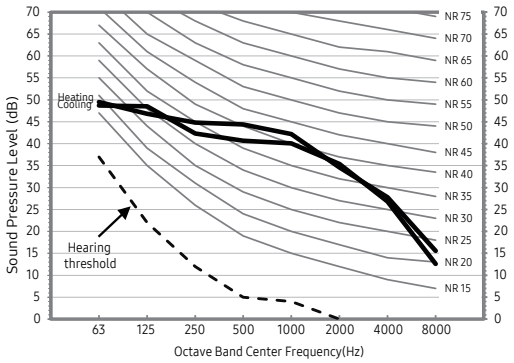



Unit: dB(A)

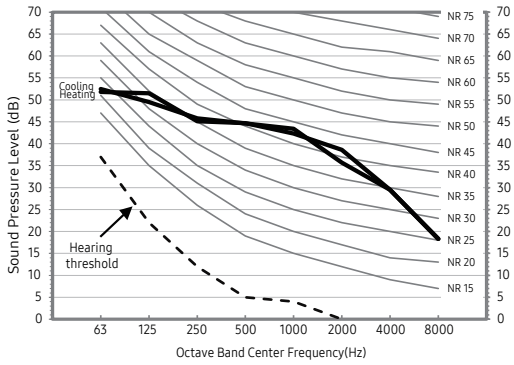
| Model | Cooling | Heating |
|---|---|---|
| AE040RXEDEG/EU | 46 | 44 |
| AE060RXEDEG/EU | 47 | 47 |
| AE090RXEDEG/EU | 49 | 49 |
| AE090RXEDGG/EU | 49 | 49 |

- NR Curve

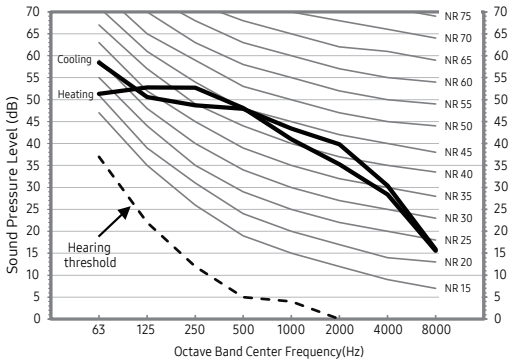
1) AE040RXEDEG/EU



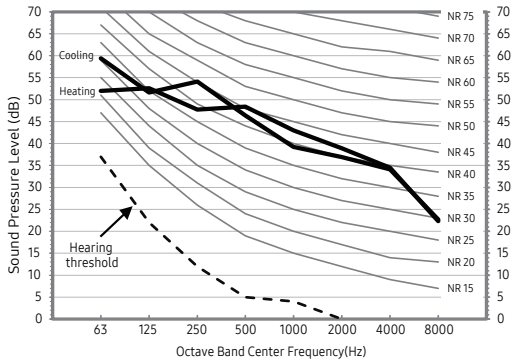

2) AE060RXEDEG/EU




3) AE090RXEDEG/EU




4) AE090RXEDGG/EU



# 2. Outdoor Units

## 2-5. Sound data

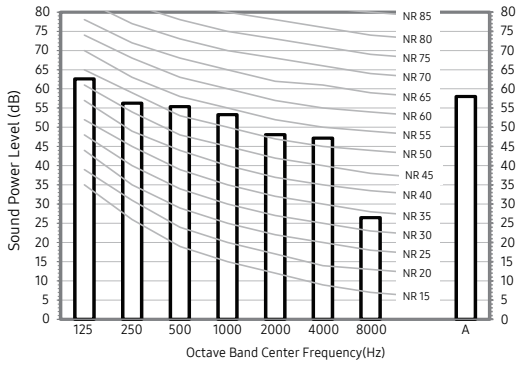
### Sound Power level

**NOTE**

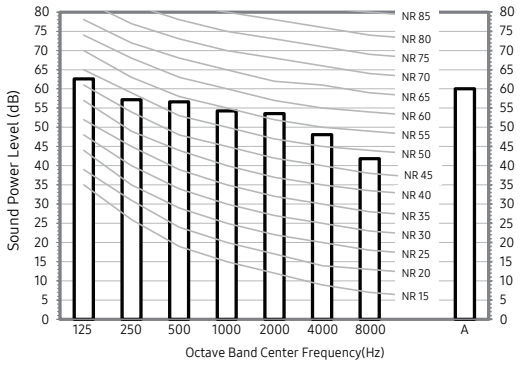
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

| Model | Power (dBA) |
|---|---|
| AE040RXEDEG/EU | 58 |
| AE060RXEDEG/EU | 60 |
| AE090RXEDEG/EU | 64 |
| AE090RXEDGG/EU | 64 |

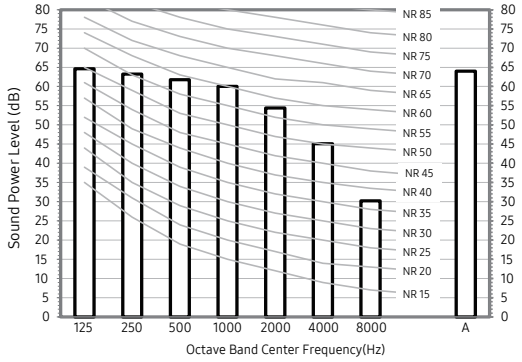
1) AE040RXEDEG/EU



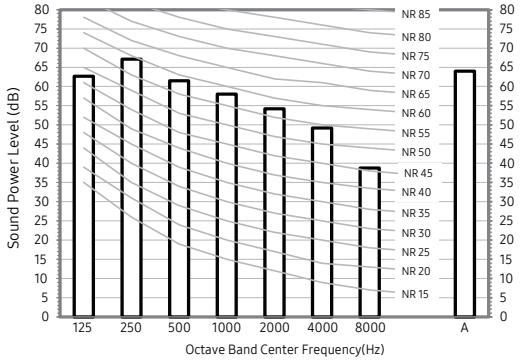

2) AE060RXEDEG/EU




3) AE090RXEDEG/EU



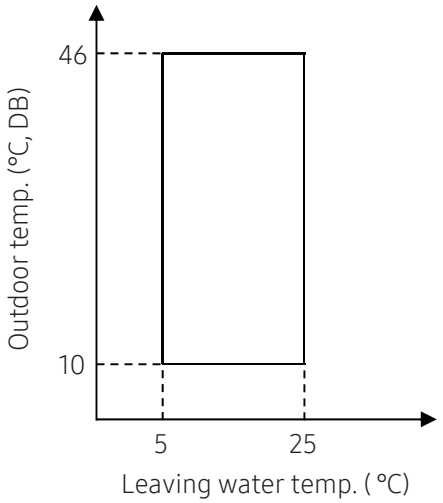

4) AE090RXEDGG/EU



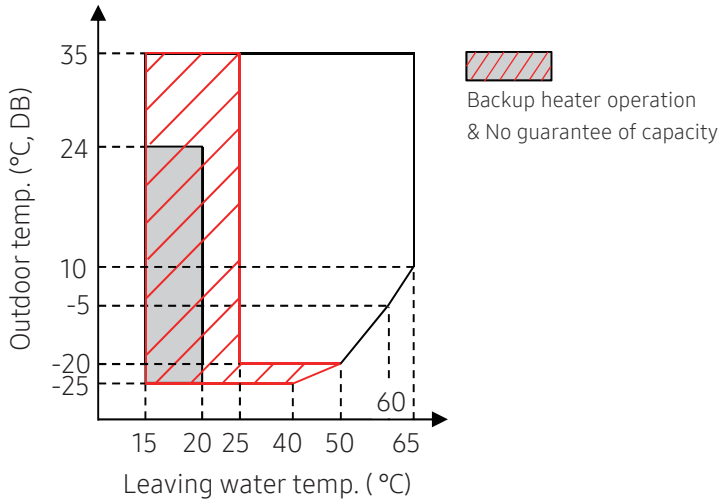
# 2. Outdoor Units

## 2-6. Operation range

### 1) Cooling




### 2) Heating




| MONO Outdoor Unit | | Water Temp. (°C) | | | Water Flow Rates (LPM) | | | Air Temp. (°C, DB/WB) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Min | Std | Max | Min | Std | Max | Min | Std | Max |
| Controller | Cooling | 5 | - | 25 | | | | | | |
| | Heating | 15 | - | 65 | | | | | | |
| Cooling | Inlet | - | 23 (12*2) | 30 | 12 (7*1) | Δ 5°C | 58 (48*1) | 10/- | 35/24 | 46/28 |
| | Outlet | 5 | 18 (7*2) | 25 | | | | | | |
| Heating | Inlet | 5 | 30 (40*2) | - | | | | -25/- | 7/6 | 35/24 |
| | Outlet | 25 (15*3) | 35 (45*2) | 65 | | | | | | |

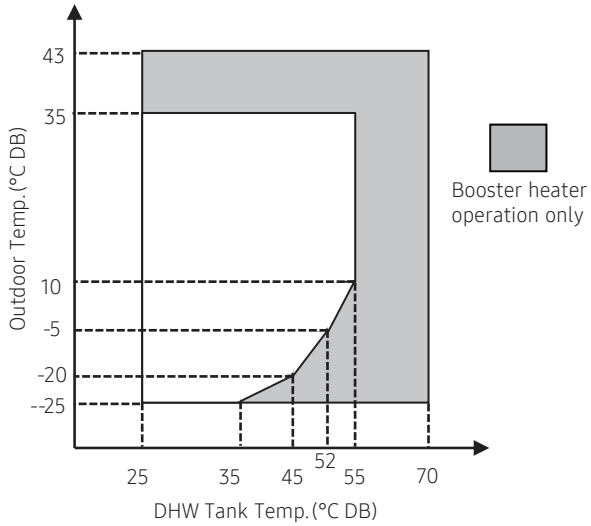
*1) Model : AE040RXEDEG
AE060RXEDEG
AE090RXEDEG
AE090RXEDGG

*2) Eurovent Test Condition #2

*3) Back up heater operation.

※ Operation of outdoor unit possible, but no guarantee of capacity in this condition.
( -25°C ≤ Outdoor temp <-20°C)

### 3) DHW (Domestic Hot Water Tank)

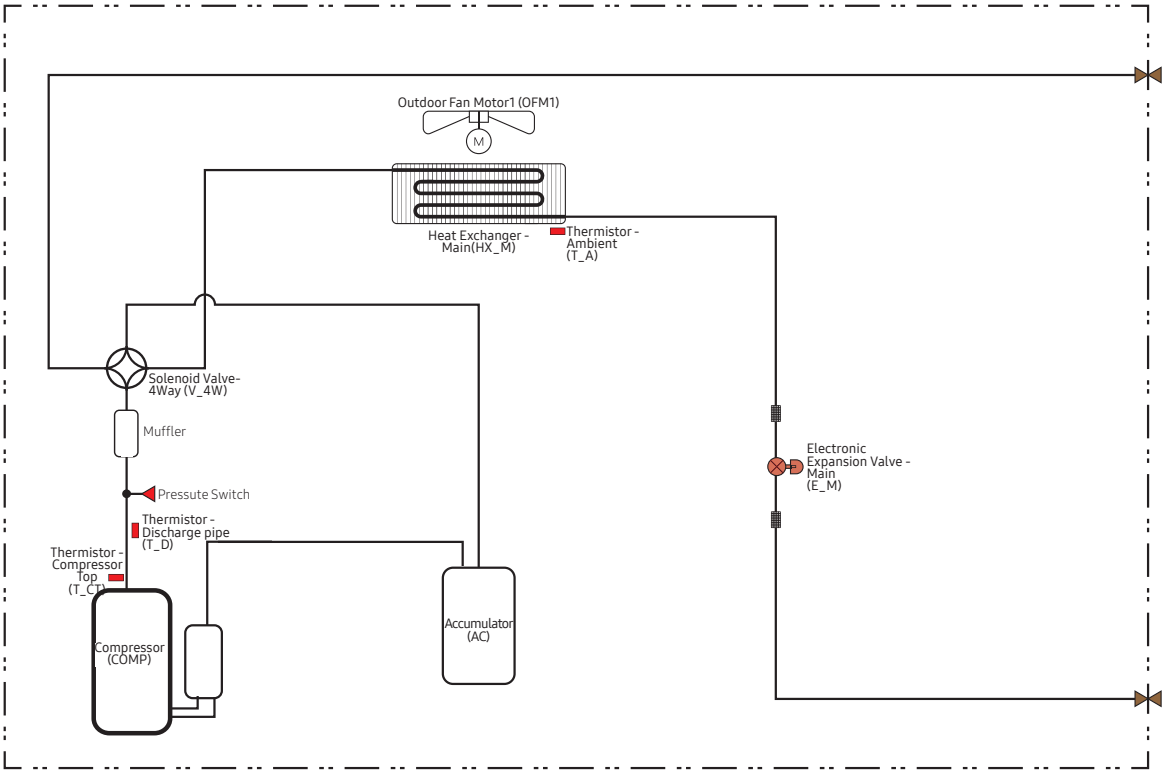



※ Special condition( 35°C < Outdoor temp. ≤ 43°C) is operated by only Booster Heater.
SAMSUNG doesn't supply DHW for EHS Split.
Since it is a reference data, you have to check DHW operation range for yours.

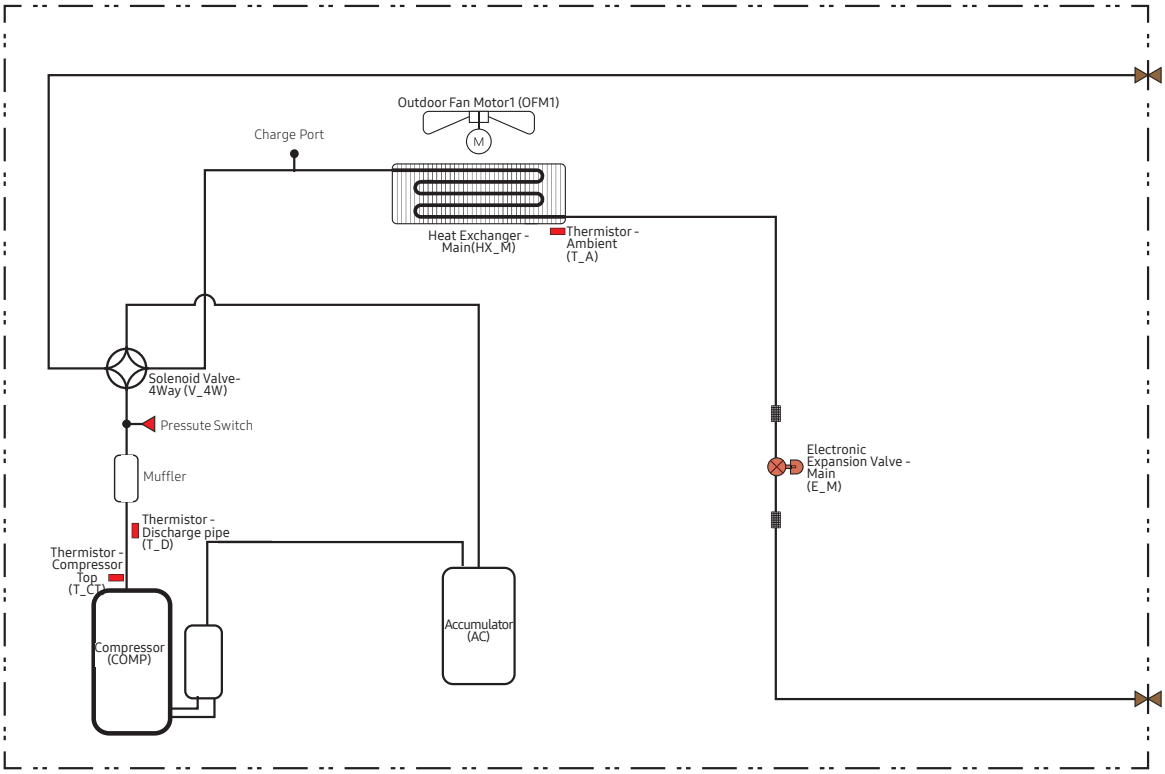
# 2. Outdoor Units

## 2-7. Piping diagram

### AE040/060RXEDEG/EU




### AE090RXED*G/EU



# 2. Outdoor Units

## 2-8. Capacity table

### 1) Maximum Heating Capacity (Peak Value)

LWT (Leaving Water Temp.), Tamb (Ambient Temp.), HC (Heating Capacity), PI (Power input)

| Model | LWT(℃) | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tamb(℃) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE040RXEDEG | -20 | 3.57 | 1.27 | 3.65 | 1.37 | 3.30 | 1.51 | 3.24 | 1.59 | 3.21 | 1.72 | | | | | | | | |
| | -15 | 4.06 | 1.35 | 4.16 | 1.44 | 3.76 | 1.60 | 3.66 | 1.67 | 3.74 | 1.74 | 3.44 | 1.82 | | | | | | |
| | -10 | 4.97 | 1.46 | 4.83 | 1.55 | 4.60 | 1.71 | 4.46 | 1.73 | 4.32 | 1.84 | 4.19 | 1.93 | 3.89 | 2.48 | | | | |
| | -7 | 5.18 | 1.46 | 5.03 | 1.44 | 4.79 | 1.61 | 4.69 | 1.89 | 4.59 | 2.03 | 4.40 | 2.11 | 4.22 | 2.54 | | | | |
| | -2 | 5.40 | 1.25 | 5.25 | 1.34 | 5.00 | 1.51 | 4.81 | 1.65 | 4.62 | 1.80 | 4.39 | 1.89 | 4.16 | 1.98 | 3.94 | 2.18 | | |
| | 2 | 5.27 | 1.06 | 5.13 | 1.14 | 4.88 | 1.28 | 4.61 | 1.35 | 4.34 | 1.43 | 4.12 | 1.60 | 3.91 | 1.78 | 3.70 | 1.89 | | |
| | 7 | 4.75 | 0.70 | 4.62 | 0.75 | 4.40 | 0.85 | 4.30 | 1.00 | 4.20 | 1.09 | 4.05 | 1.27 | 3.90 | 1.32 | 3.57 | 1.45 | 3.44 | 1.58 |
| | 10 | 5.09 | 0.73 | 4.95 | 0.78 | 4.71 | 0.88 | 4.61 | 1.00 | 4.57 | 1.15 | 4.34 | 1.30 | 4.11 | 1.51 | 3.79 | 1.55 | 3.55 | 1.60 |
| | 15 | 5.68 | 0.74 | 5.47 | 0.81 | 5.21 | 0.91 | 5.12 | 1.02 | 5.14 | 1.18 | 4.88 | 1.33 | 4.72 | 1.51 | 4.35 | 1.56 | 4.08 | 1.62 |
| | 20 | 6.32 | 0.73 | 6.14 | 0.84 | 6.04 | 0.95 | 5.89 | 1.08 | 5.86 | 1.12 | 5.57 | 1.37 | 5.22 | 1.51 | 4.91 | 1.54 | 4.60 | 1.63 |
| Model | LWT(℃) | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
| | Tamb(℃) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE060RXEDEG | -20 | 4.46 | 1.71 | 4.56 | 1.84 | 4.13 | 2.04 | 4.05 | 2.14 | 4.01 | 2.32 | | | | | | | | |
| | -15 | 5.08 | 1.81 | 5.20 | 1.94 | 4.70 | 2.15 | 4.57 | 2.25 | 4.67 | 2.34 | 4.30 | 2.46 | | | | | | |
| | -10 | 5.89 | 1.94 | 5.72 | 2.05 | 5.45 | 2.19 | 5.29 | 2.39 | 5.12 | 2.48 | 4.97 | 2.75 | 4.61 | 3.05 | | | | |
| | -7 | 6.19 | 1.83 | 6.02 | 1.85 | 5.73 | 2.08 | 5.61 | 2.45 | 5.49 | 2.62 | 5.27 | 2.79 | 5.05 | 3.06 | | | | |
| | -2 | 6.57 | 1.64 | 6.38 | 1.76 | 6.08 | 1.98 | 5.85 | 2.17 | 5.62 | 2.37 | 5.34 | 2.66 | 5.06 | 2.96 | 4.79 | 3.29 | | |
| | 2 | 6.53 | 1.43 | 6.35 | 1.53 | 6.05 | 1.72 | 5.71 | 1.82 | 5.37 | 1.92 | 5.11 | 2.16 | 4.84 | 2.40 | 4.58 | 2.55 | | |
| | 7 | 6.48 | 1.01 | 6.30 | 1.09 | 6.00 | 1.22 | 5.70 | 1.41 | 5.40 | 1.51 | 5.10 | 1.74 | 4.80 | 1.81 | 4.31 | 1.98 | 4.05 | 2.15 |
| | 10 | 6.94 | 1.05 | 6.74 | 1.13 | 6.42 | 1.27 | 6.17 | 1.42 | 5.98 | 1.61 | 5.68 | 1.81 | 5.38 | 2.11 | 4.96 | 2.17 | 4.65 | 2.24 |
| | 15 | 7.75 | 1.07 | 7.46 | 1.17 | 7.10 | 1.31 | 6.92 | 1.46 | 6.89 | 1.68 | 6.54 | 1.89 | 6.32 | 2.14 | 5.83 | 2.21 | 5.46 | 2.30 |
| | 20 | 8.62 | 1.05 | 8.38 | 1.21 | 8.23 | 1.37 | 8.03 | 1.55 | 8.00 | 1.61 | 7.60 | 1.98 | 7.12 | 2.18 | 6.70 | 2.22 | 6.28 | 2.35 |
| Model | LWT(℃) | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
| | Tamb(℃) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE090RXED*G | -20 | 6.55 | 2.39 | 6.71 | 2.56 | 6.07 | 2.84 | 5.96 | 2.99 | 5.90 | 3.23 | | | | | | | | |
| | -15 | 7.47 | 2.53 | 7.64 | 2.71 | 6.91 | 3.00 | 6.72 | 3.14 | 6.87 | 3.26 | 6.33 | 3.43 | | | | | | |
| | -10 | 8.64 | 2.72 | 8.40 | 2.83 | 8.00 | 3.29 | 7.76 | 3.44 | 7.52 | 3.46 | 7.29 | 3.93 | 6.77 | 4.68 | | | | |
| | -7 | 8.89 | 2.65 | 8.64 | 2.69 | 8.23 | 3.02 | 8.05 | 3.51 | 7.88 | 3.80 | 7.56 | 4.04 | 7.25 | 4.89 | | | | |
| | -2 | 9.57 | 2.43 | 9.31 | 2.61 | 8.86 | 2.93 | 8.53 | 3.22 | 8.19 | 3.50 | 7.78 | 3.94 | 7.37 | 4.38 | 6.98 | 4.87 | | |
| | 2 | 9.67 | 2.18 | 9.40 | 2.34 | 8.95 | 2.63 | 8.46 | 2.78 | 7.96 | 2.93 | 7.56 | 3.30 | 7.16 | 3.66 | 6.79 | 3.89 | | |
| | 7 | 9.72 | 1.55 | 9.45 | 1.66 | 9.00 | 1.87 | 8.80 | 2.16 | 8.60 | 2.33 | 8.30 | 2.66 | 8.00 | 2.73 | 7.33 | 3.11 | 7.07 | 3.52 |
| | 10 | 10.40 | 1.61 | 10.12 | 1.73 | 9.63 | 1.94 | 9.44 | 2.19 | 9.35 | 2.48 | 8.88 | 2.79 | 8.41 | 3.25 | 7.75 | 3.35 | 7.26 | 3.45 |
| | 15 | 11.63 | 1.64 | 11.19 | 1.79 | 10.65 | 2.01 | 10.48 | 2.24 | 10.51 | 2.59 | 9.99 | 2.91 | 9.66 | 3.29 | 8.90 | 3.39 | 8.34 | 3.53 |
| | 20 | 12.93 | 1.61 | 12.57 | 1.85 | 12.35 | 2.10 | 12.05 | 2.38 | 12.00 | 2.47 | 11.40 | 3.03 | 10.69 | 3.33 | 10.05 | 3.41 | 9.42 | 3.61 |

1. Heating capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for heated water range △t = 3~8°C
2. Cooling capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for chilled water range △t = 3~8°C
3. Power input : Power input is according to Eurovent rating standard OM-3-2015.
4. Peak value : Tested without defrost operation in accordance with EN14511

※ The real capacity would be changed according to the install environment.

# 2. Outdoor Units

## 2-8. Capacity table

### 2) Maximum Heating Capacity (Integrated Value)

LWT (Leaving Water Temp.), Tamb (Ambient Temp.), HC (Heating Capacity), PI (Power input)

| Model | LWT(℃) | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tamb(℃) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE040RXEDEG | -20 | 3.57 | 1.27 | 3.65 | 1.37 | 3.30 | 1.51 | 3.24 | 1.59 | 3.21 | 1.72 | | | | | | | | |
| | -15 | 4.06 | 1.35 | 4.16 | 1.44 | 3.76 | 1.60 | 3.66 | 1.67 | 3.74 | 1.74 | 3.44 | 1.82 | | | | | | |
| | -10 | 4.63 | 1.38 | 4.50 | 1.46 | 4.28 | 1.64 | 4.15 | 1.73 | 4.03 | 1.81 | 3.82 | 1.80 | 3.62 | 2.39 | | | | |
| | -7 | 4.72 | 1.38 | 4.59 | 1.42 | 4.42 | 1.55 | 4.32 | 1.84 | 4.23 | 2.03 | 4.23 | 2.11 | 3.85 | 2.42 | | | | |
| | -2 | 4.51 | 1.15 | 4.39 | 1.18 | 4.22 | 1.33 | 4.15 | 1.53 | 3.95 | 1.67 | 3.71 | 1.75 | 3.48 | 1.83 | 3.30 | 2.02 | | |
| | 2 | 4.31 | 0.96 | 4.15 | 1.01 | 3.95 | 1.13 | 3.81 | 1.20 | 3.60 | 1.29 | 3.48 | 1.45 | 3.33 | 1.61 | 3.02 | 1.79 | | |
| | 7 | 4.75 | 0.70 | 4.62 | 0.75 | 4.40 | 0.85 | 4.30 | 1.00 | 4.20 | 1.09 | 4.05 | 1.27 | 3.90 | 1.32 | 3.57 | 1.45 | 3.44 | 1.58 |
| | 10 | 5.09 | 0.73 | 4.95 | 0.78 | 4.71 | 0.88 | 4.61 | 1.00 | 4.57 | 1.15 | 4.34 | 1.30 | 4.11 | 1.51 | 3.79 | 1.55 | 3.55 | 1.60 |
| | 15 | 5.68 | 0.74 | 5.47 | 0.81 | 5.21 | 0.91 | 5.12 | 1.02 | 5.14 | 1.18 | 4.88 | 1.33 | 4.72 | 1.51 | 4.35 | 1.56 | 4.08 | 1.62 |
| | 20 | 6.32 | 0.73 | 6.14 | 0.84 | 6.04 | 0.95 | 5.89 | 1.08 | 5.86 | 1.12 | 5.57 | 1.37 | 5.22 | 1.51 | 4.91 | 1.54 | 4.60 | 1.63 |
| Model | LWT(℃) | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
| | Tamb(℃) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE060RXEDEG | -20 | 4.46 | 1.71 | 4.56 | 1.84 | 4.13 | 2.04 | 4.05 | 2.14 | 4.01 | 2.32 | | | | | | | | |
| | -15 | 5.08 | 1.81 | 5.20 | 1.94 | 4.70 | 2.15 | 4.57 | 2.25 | 4.67 | 2.34 | 4.30 | 2.46 | | | | | | |
| | -10 | 5.48 | 1.87 | 5.33 | 1.97 | 5.07 | 2.19 | 4.92 | 2.33 | 4.77 | 2.43 | 4.53 | 2.68 | 4.29 | 2.94 | | | | |
| | -7 | 5.64 | 1.78 | 5.49 | 1.83 | 5.28 | 2.00 | 5.17 | 2.37 | 5.06 | 2.61 | 5.05 | 2.78 | 4.60 | 2.98 | | | | |
| | -2 | 5.49 | 1.52 | 5.34 | 1.55 | 5.14 | 1.74 | 5.04 | 2.01 | 4.80 | 2.19 | 4.51 | 2.46 | 4.23 | 2.73 | 4.00 | 3.04 | | |
| | 2 | 5.34 | 1.29 | 5.13 | 1.36 | 4.89 | 1.52 | 4.71 | 1.61 | 4.46 | 1.73 | 4.30 | 1.95 | 4.12 | 2.17 | 3.74 | 2.41 | | |
| | 7 | 6.48 | 1.01 | 6.30 | 1.09 | 6.00 | 1.22 | 5.70 | 1.41 | 5.40 | 1.51 | 5.10 | 1.74 | 4.80 | 1.81 | 4.31 | 1.98 | 4.05 | 2.15 |
| | 10 | 6.94 | 1.05 | 6.74 | 1.13 | 6.42 | 1.27 | 6.17 | 1.42 | 5.98 | 1.61 | 5.68 | 1.81 | 5.38 | 2.11 | 4.96 | 2.17 | 4.65 | 2.24 |
| | 15 | 7.75 | 1.07 | 7.46 | 1.17 | 7.10 | 1.31 | 6.92 | 1.46 | 6.89 | 1.68 | 6.54 | 1.89 | 6.32 | 2.14 | 5.83 | 2.21 | 5.46 | 2.30 |
| | 20 | 8.62 | 1.05 | 8.38 | 1.21 | 8.23 | 1.37 | 8.03 | 1.55 | 8.00 | 1.61 | 7.60 | 1.98 | 7.12 | 2.18 | 6.70 | 2.22 | 6.28 | 2.35 |
| Model | LWT(℃) | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
| | Tamb(℃) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE090RXED*G | -20 | 6.55 | 2.39 | 6.71 | 2.56 | 6.07 | 2.84 | 5.96 | 2.99 | 5.90 | 3.23 | | | | | | | | |
| | -15 | 7.47 | 2.53 | 7.64 | 2.71 | 6.91 | 3.00 | 6.72 | 3.14 | 6.87 | 3.26 | 6.33 | 3.43 | | | | | | |
| | -10 | 8.04 | 2.65 | 7.82 | 2.78 | 7.45 | 3.22 | 7.22 | 3.38 | 7.00 | 3.39 | 6.79 | 3.81 | 6.30 | 4.52 | | | | |
| | -7 | 8.11 | 2.58 | 7.88 | 2.66 | 7.58 | 2.90 | 7.42 | 3.44 | 7.26 | 3.79 | 7.26 | 4.04 | 6.61 | 4.78 | | | | |
| | -2 | 8.00 | 2.25 | 7.78 | 2.30 | 7.49 | 2.58 | 7.35 | 2.97 | 6.99 | 3.24 | 6.57 | 3.64 | 6.16 | 4.09 | 5.84 | 4.50 | | |
| | 2 | 7.90 | 1.97 | 7.68 | 2.09 | 7.32 | 2.35 | 6.98 | 2.46 | 6.60 | 2.65 | 6.37 | 2.98 | 6.10 | 3.31 | 5.54 | 3.68 | | |
| | 7 | 9.72 | 1.55 | 9.45 | 1.66 | 9.00 | 1.87 | 8.80 | 2.16 | 8.60 | 2.33 | 8.30 | 2.66 | 8.00 | 2.73 | 7.33 | 3.11 | 7.07 | 3.52 |
| | 10 | 10.40 | 1.61 | 10.12 | 1.73 | 9.63 | 1.94 | 9.44 | 2.19 | 9.35 | 2.48 | 8.88 | 2.79 | 8.41 | 3.25 | 7.75 | 3.35 | 7.26 | 3.45 |
| | 15 | 11.63 | 1.64 | 11.19 | 1.79 | 10.65 | 2.01 | 10.48 | 2.24 | 10.51 | 2.59 | 9.99 | 2.91 | 9.66 | 3.29 | 8.90 | 3.39 | 8.34 | 3.53 |
| | 20 | 12.93 | 1.61 | 12.57 | 1.85 | 12.35 | 2.10 | 12.05 | 2.38 | 12.00 | 2.47 | 11.40 | 3.03 | 10.69 | 3.33 | 10.05 | 3.41 | 9.42 | 3.61 |

1. Heating capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for heated water range △t = 3~8°C
2. Cooling capacity : Capacity is according to Eurovent rating standard OM-3-2015 and valid for chilled water range △t = 3~8°C
3. Power input : Power input is according to Eurovent rating standard OM-3-2015.
4. Integrated value : Tested with defrost operation in accordance with EN14511

※ The real capacity would be changed according to the install environment.

# 2. Outdoor Units

## 2-8. Capacity table

### 3) Cooling Capacity

LWT (Leaving Water Temp.), Tamb (Ambient Temp.), CC (Cooling Capacity), PI (Power input)

| | LWT (°C) | 7 | | 10 | | 13 | | 15 | | 18 | | 25 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tamb (°C) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE040RXEDEG | 10 | 3.99 | 0.83 | 4.37 | 0.82 | 4.76 | 0.82 | 5.15 | 0.82 | 5.54 | 0.81 | 6.09 | 0.83 |
| | 20 | 3.83 | 0.94 | 4.21 | 0.93 | 4.58 | 0.93 | 4.95 | 0.93 | 5.33 | 0.92 | 5.86 | 0.94 |
| | 30 | 3.68 | 1.05 | 4.04 | 1.04 | 4.39 | 1.04 | 4.75 | 1.03 | 5.11 | 1.03 | 5.62 | 1.05 |
| | 35 | 3.60 | 1.11 | 3.95 | 1.11 | 4.30 | 1.10 | 4.65 | 1.10 | 5.00 | 1.09 | 5.50 | 1.11 |
| | 46 | 3.43 | 1.23 | 3.76 | 1.22 | 4.10 | 1.22 | 4.43 | 1.21 | 4.77 | 1.20 | 5.24 | 1.23 |
| | LWT (°C) | 7 | | 10 | | 13 | | 15 | | 18 | | 25 | |
| | Tamb (°C) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE060RXEDEG | 10 | 5.20 | 1.07 | 5.70 | 1.08 | 6.20 | 1.08 | 6.70 | 1.09 | 7.20 | 1.10 | 7.92 | 1.12 |
| | 20 | 5.01 | 1.22 | 5.48 | 1.22 | 5.96 | 1.23 | 6.44 | 1.24 | 6.92 | 1.24 | 7.61 | 1.27 |
| | 30 | 4.80 | 1.36 | 5.26 | 1.37 | 5.72 | 1.37 | 6.18 | 1.38 | 6.64 | 1.39 | 7.31 | 1.42 |
| | 35 | 4.70 | 1.44 | 5.15 | 1.45 | 5.60 | 1.46 | 6.05 | 1.46 | 6.50 | 1.47 | 7.15 | 1.50 |
| | 46 | 4.48 | 1.59 | 4.91 | 1.60 | 5.34 | 1.61 | 5.77 | 1.62 | 6.19 | 1.62 | 6.81 | 1.66 |
| | LWT (°C) | 7 | | 10 | | 13 | | 15 | | 18 | | 25 | |
| | Tamb (°C) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) | HC(kW) | PI(kW) |
| AE090RXED*G | 10 | 7.20 | 1.45 | 7.80 | 1.48 | 8.41 | 1.51 | 9.02 | 1.54 | 9.63 | 1.57 | 10.59 | 1.60 |
| | 20 | 6.92 | 1.65 | 7.51 | 1.68 | 8.09 | 1.72 | 8.68 | 1.75 | 9.27 | 1.78 | 10.19 | 1.82 |
| | 30 | 6.64 | 1.84 | 7.21 | 1.88 | 7.77 | 1.92 | 8.33 | 1.96 | 8.89 | 1.99 | 9.78 | 2.03 |
| | 35 | 6.50 | 1.95 | 7.05 | 1.99 | 7.60 | 2.03 | 8.15 | 2.07 | 8.70 | 2.11 | 9.57 | 2.15 |
| | 46 | 6.19 | 2.15 | 6.72 | 2.20 | 7.24 | 2.24 | 7.77 | 2.29 | 8.29 | 2.33 | 9.12 | 2.38 |

1. Heating capacity is according to Eurovent rating standard OM-3-2015 and valid for heated water range △t = 3~8°C
2. Cooling capacity is according to Eurovent rating standard OM-3-2015 and valid for chilled water range △t = 3~8°C
3. Power input is total of indoor and outdoor unit, according to Eurovent rating standard OM-3-2015.

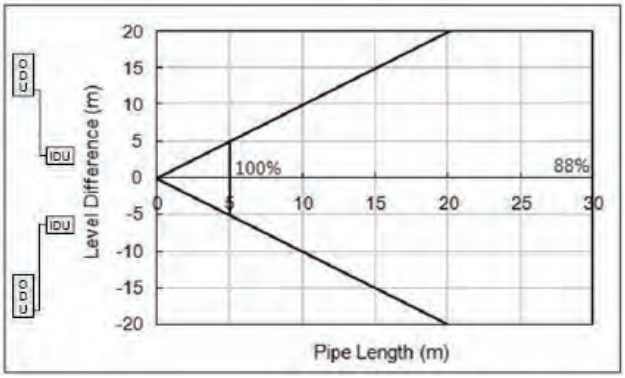
※ The real capacity would be changed according to the install environment.

# 2. Outdoor Units

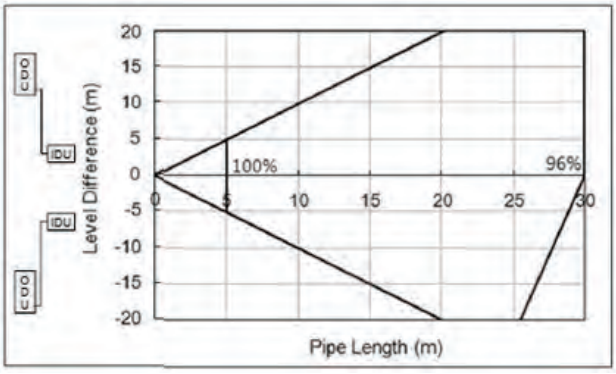
## 2-9. Capacity correction

### AE040/060RXEDEG/EU

1) Heating

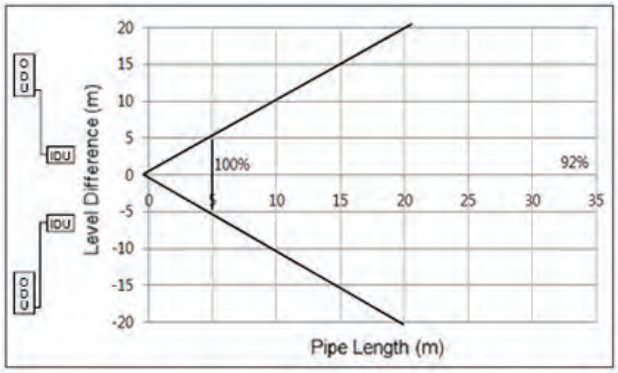



2) Cooling

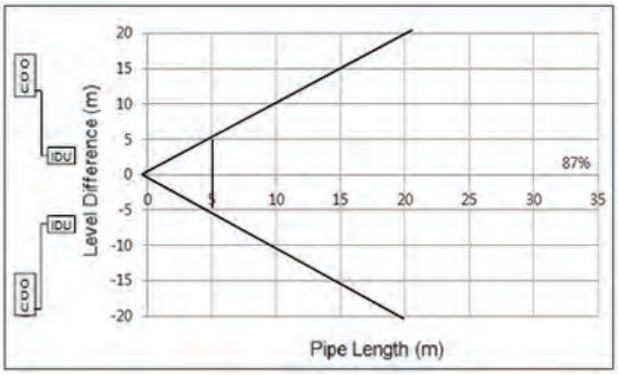



### AE090RXED*G/EU

1) Heating




2) Cooling




### Silent mode corrections

#### Heating

| Silent Function | Outdoor Air Temperature(°C DB) | | | |
|---|---|---|---|---|
| | -15 | 2 | 7 | 15 |
| Level 1 | 0.92 | 0.87 | 0.94 | 0.94 |
| Level 2 | 0.82 | 0.78 | 0.84 | 0.84 |
| Level 3 | 0.68 | 0.64 | 0.69 | 0.69 |
| Low-noise | 0.7 | 0.6 | 0.69 | 0.69 |

#### Cooling

| Silent Function | Outdoor Air Temperature(°C DB) | | | |
|---|---|---|---|---|
| | 10 | 20 | 35 | 45 |
| Level 1 | 1 | 1 | 0.92 | 0.92 |
| Level 2 | 0.98 | 0.89 | 0.83 | 0.83 |
| Level 3 | 0.81 | 0.74 | 0.68 | 0.68 |

# 3. Tank integrated hydro unit

## 3-1. Specifications

| Model Name | | Indoor Unit | | AE200RNWSEG/EU | AE200RNWSEG/EU | AE200RNWSEG/EU |
|---|---|---|---|---|---|---|
| | | Outdoor Unit | | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Mode | | | - | Heat Pump (A2W) | Heat Pump (A2W) | Heat Pump (A2W) |
| Power Supply | | | Φ, #, V, Hz | 1,2,220-240,50 | 1,2,220-240,50 | 1,2,220-240,50 |
| Power input | Cooling (Nominal) | | kW | 0.2 | 0.2 | 0.2 |
| | Heating (Nominal) | | kW | 0.2 | 0.2 | 0.2 |
| | Cooling (Max) | | kW | 0.2 | 0.2 | 0.2 |
| | Heating (Max) | | kW | 5.2 | 5.2 | 5.2 |
| Current Input | Cooling (Nominal) | | A | 0.9 | 0.9 | 0.9 |
| | Heating (Nominal) | | A | 0.9 | 0.9 | 0.9 |
| | Cooling (Max) | | A | 0.9 | 0.9 | 0.9 |
| | Heating (Max) | | A | 22.7 | 22.7 | 22.7 |
| Field Wiring | MCA | | A | 22.7 | 22.7 | 22.7 |
| | MFA | | | 28.4 | 28.4 | 28.4 |
| Heating up time | | | h /min | 2 / 20 | 2 / 20 | 2 / 0 |
| Water Heating | Declared load profile | | - | L | L | L |
| | Energy efficiency Class | | - | A+ | A+ | A+ |
| Connections | Water Flow Rate (Std)[H/C] | | LPM | 12.7/14.4 | 17.3/18.8 | 26.0/25.1 |
| | Water Flow Rate | Min | LPM | 7.0 | 7.0 | 7.0 |
| | | Max | LPM | 48.0 | 48.0 | 48.0 |
| | Water Pressure (Max) | | bar | 3 | 3 | 3 |
| | Refrigerant pipe (To outdoor unit) | Type | - | Flare nut | Flare nut | Flare nut |
| | | Liquid | Φ, mm | 6.35 | 6.35 | 6.35 |
| | | Gas | Φ, mm | 15.88 | 15.88 | 15.88 |
| | Water pipe (Space heating) | Type | - | Straight pipe | Straight pipe | Straight pipe |
| | | Inlet | Φ, mm | 28 | 28 | 28 |
| | | Outlet | Φ, mm | 28 | 28 | 28 |
| | Water pipe (DHW) | Type | - | Straight pipe | Straight pipe | Straight pipe |
| | | Inlet | Φ, mm | 22 | 22 | 22 |
| | | Outlet | Φ, mm | 22 | 22 | 22 |
| | Water pipe (Secondary water return, Only 260L optional) | Type | - | - | - | - |
| | | Inlet | Φ, mm | - | - | - |
| | Leaving Water Temperature | Heating | °C | 15~65 | 15~65 | 15~65 |
| | | Cooling | °C | 5~25 | 5~25 | 5~25 |
| DHW Tank | Nominal Water Volume | | liter | 200 | 200 | 200 |
| | Net Water Volume | | liter | 194 | 194 | 194 |
| | Material | | - | SUS 316L | SUS 316L | SUS 316L |
| | Max. water pressure | | bar | 10 | 10 | 10 |
| | Max. water temperature | | °C | 70 | 70 | 70 |
| | Immersion heater (= booster heater) | | kW | 3 (230V) | 3 (230V) | 3 (230V) |
| | Insulation | | - | PU Foam | PU Foam | PU Foam |
| Water Pump | Type | | - | Centrifurugal (UPMM 25-9.5) | Centrifurugal (UPMM 25-9.5) | Centrifurugal (UPMM 25-9.5) |
| | Motor Input | | W | 100 | 100 | 100 |
| | Number of Unit | | EA | 1 | 1 | 1 |
| Backup Heater | Power | | kW | 2 (230V) | 2 (230V) | 2 (230V) |
| | Thermostat (Thermal Fuse) | | °C | 65 (93) | 65 (93) | 65 (93) |

# 3. Tank integrated hydro unit

## 3-1. Specifications

| Model Name | | Indoor Unit | | AE200RNWSEG/EU | AE200RNWSEG/EU | AE200RNWSEG/EU |
|---|---|---|---|---|---|---|
| | | Outdoor Unit | | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Safety device | Pressure relief valve | | bar | 2.9 | 2.9 | 2.9 |
| | Flow Sensor | | LPM | 5~60 | 5~60 | 5~60 |
| | Temperature & Pressure relief valve (Tank) | | bar, ℃ | 7, 90 | 7, 90 | 7, 90 |
| | Thermostat(for immersion heater) | | ℃ | 49~82±5<br>(Auto, On : 15℃±3℃↓) | 49~82±5<br>(Auto, On : 15℃±3℃↓) | 49~82±5<br>(Auto, On : 15℃±3℃↓) |
| Expansion vessel | Internal water volume | | liter | 8 | 8 | 8 |
| | Working pressure | | MPa | 0.3 | 0.3 | 0.3 |
| Water Pump (Primary) | Type | | - | BLDC Inv | BLDC Inv | BLDC Inv |
| | Max static pressure | | mAq | 9.5 | 9.5 | 9.5 |
| Water Heat Exchanger | Type | | - | Braszed Plate Exchager | Braszed Plate Exchager | Braszed Plate Exchager |
| | Quantity | | EA | 1 | 1 | 1 |
| | Internal water volume | | L | 1.01(Water Side)<br>0.98(Refrigerant Side) | 1.01(Water Side)<br>0.98(Refrigerant Side) | 1.01(Water Side)<br>0.98(Refrigerant Side) |
| | Water flow rate | Min. | l/min | 7 | 7 | 7 |
| | | Max. | l/min | 48 | 48 | 48 |
| | Insulation material | | - | EPS | EPS | EPS |
| IP Class | | | - | IPX1 | IPX1 | IPX1 |
| Air Purge Valve | | | Φ, inch | BSPP male 3/8 | BSPP male 3/8 | BSPP male 3/8 |
| Service Valve | | | Φ, inch | BSPP male 1 1/4 | BSPP male 1 1/4 | BSPP male 1 1/4 |
| Sound | Sound Pressure | Heating | dB(A) | 26 | 26 | 26 |
| | | Cooling | dB(A) | 26 | 26 | 26 |
| | Sound Power | Heating | dB(A) | 40 | 40 | 40 |
| Casing | Color | | - | Earth brown | Earth brown | Earth brown |
| | Material | | - | Poweder coated Galvanised steel | Poweder coated Galvanised steel | Poweder coated Electro galvanized steel |
| Packing | Material | | - | EPS/BOX | EPS/BOX | EPS/BOX |
| | Packing Weight | | kg | 12.0 | 12.0 | 12.0 |
| External Dimension | Net Weight | | kg | 136.0 | 136.0 | 136.0 |
| | Shipping Weight | | kg | 148.0 | 148.0 | 148.0 |
| | Net Dimensions (WxHxD) | | mm | 595 x 1,800 x 700 | 595 x 1,800 x 700 | 595 x 1,800 x 700 |
| | Shipping Dimensions (WxHxD) | | mm | 700 x 2,000 x 780 | 700 x 2,000 x 780 | 700 x 2,000 x 780 |

**NOTE**

- Specifications may be subject to change without prior notice.

# 3. Tank integrated hydro unit

## 3-1. Specifications

| Model Name | | Indoor Unit | | AE260RNWSGG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU |
|---|---|---|---|---|---|---|---|
| | | Outdoor Unit | | AE090RXEDGG/EU | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Mode | | | - | Heat Pump (A2W) | Heat Pump (A2W) | Heat Pump (A2W) | Heat Pump (A2W) |
| Power Supply | | | Φ, #, V, Hz | 1,2,220-240,50<br>3,4,380-415,50 | 1,2,220-240,50 | 1,2,220-240,50 | 1,2,220-240,50 |
| Power input | Cooling (Nominal) | | kW | 3Φ - / 1Φ 0.20 | 0.2 | 0.2 | 0.2 |
| | Heating (Nominal) | | kW | 3Φ - / 1Φ 0.20 | 0.2 | 0.2 | 0.2 |
| | Cooling (Max) | | kW | 3Φ - / 1Φ 0.20 | 0.2 | 0.2 | 0.2 |
| | Heating (Max) | | kW | 3Φ 6.00 / 1Φ 3.20 | 5.2 | 5.2 | 5.2 |
| Current Input | Cooling (Nominal) | | A | 3Φ - / 1Φ 0.9 | 0.9 | 0.9 | 0.9 |
| | Heating (Nominal) | | A | 3Φ - / 1Φ 0.9 | 0.9 | 0.9 | 0.9 |
| | Cooling (Max) | | A | 3Φ - / 1Φ 0.9 | 0.9 | 0.9 | 0.9 |
| | Heating (Max) | | A | 3Φ 8.7 / 1Φ 14.0 | 22.7 | 22.7 | 22.7 |
| Field Wiring | MCA | | A | 1Φ 14.0 / 3Φ 8.7 | 22.7 | 22.7 | 22.7 |
| | MFA | | | 11.6 | 28.4 | 28.4 | 28.4 |
| Heating up time | | | h /min | 1 / 35 | 2 / 50 | 2 / 50 | 1 / 35 |
| Water Heating | Declared load profile | | - | XL | XL | XL | XL |
| | Energy efficiency Class | | - | A+ | A+ | A+ | A+ |
| Connections | Water Flow Rate (Std)[H/C] | | LPM | 26.0/25.1 | 12.7/14.4 | 17.3/18.8 | 26.0/25.1 |
| | Water Flow Rate | Min | LPM | 7.0 | 7.0 | 7.0 | 7.0 |
| | | Max | LPM | 48.0 | 48.0 | 48.0 | 48.0 |
| | Water Pressure (Max) | | bar | 3 | 3 | 3 | 3 |
| | Refrigerant pipe (To outdoor unit) | Type | - | Flare nut | Flare nut | Flare nut | Flare nut |
| | | Liquid | Φ, mm | 6.35 | 6.35 | 6.35 | 6.35 |
| | | Gas | Φ, mm | 15.88 | 15.88 | 15.88 | 15.88 |
| | Water pipe (Space heating) | Type | - | Straight pipe | Straight pipe | Straight pipe | Straight pipe |
| | | Inlet | Φ, mm | 28 | 28 | 28 | 28 |
| | | Outlet | Φ, mm | 28 | 28 | 28 | 28 |
| | Water pipe (DHW) | Type | - | Straight pipe | Straight pipe | Straight pipe | Straight pipe |
| | | Inlet | Φ, mm | 22 | 22 | 22 | 22 |
| | | Outlet | Φ, mm | 22 | 22 | 22 | 22 |
| | Water pipe (Secondary water return, Only 260L optional) | Type | - | Straight pipe | Straight pipe | Straight pipe | Straight pipe |
| | | Inlet | Φ, mm | 22 | 22 | 22 | 22 |
| | Leaving Water Temperature | Heating | °C | 15~65 | 15~65 | 15~65 | 15~65 |
| | | Cooling | °C | 5~25 | 5~25 | 5~25 | 5~25 |
| DHW Tank | Nominal Water Volume | | liter | 260 | 260 | 260 | 260 |
| | Net Water Volume | | liter | 254 | 254 | 254 | 254 |
| | Material | | - | SUS 316L | SUS 316L | SUS 316L | SUS 316L |
| | Max. water pressure | | bar | 10 | 10 | 10 | 10 |
| | Max. water temperature | | °C | 70 | 70 | 70 | 70 |
| | Immersion heater (= booster heater) | | kW | 3 (230V) | 3 (230V) | 3 (230V) | 3 (230V) |
| | Insulation | | - | PU Foam | PU Foam | PU Foam | PU Foam |
| Water Pump | Type | | - | Centrifurugal (UPMM 25-9.5) | Centrifurugal (UPMM 25-9.5) | Centrifurugal (UPMM 25-9.5) | Centrifurugal (UPMM 25-9.5) |
| | Motor Input | | W | 100 | 100 | 100 | 100 |
| | Number of Unit | | EA | 1 | 1 | 1 | 1 |
| Backup Heater | Power | | kW | 6 (3Φ 400V) | 2 (230V) | 2 (230V) | 2 (230V) |
| | Thermostat (Thermal Fuse) | | °C | 75(93) | 75(93) | 75(93) | 75(93) |

# 3. Tank integrated hydro unit

## 3-1. Specifications

| Model Name | | Indoor Unit | | AE260RNWSGG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU | AE260RNWSEG/EU |
|---|---|---|---|---|---|---|---|
| | | Outdoor Unit | | AE090RXEDGG/EU | AE040RXEDEG/EU | AE060RXEDEG/EU | AE090RXEDEG/EU |
| Safety device | Pressure relief valve | | bar | 2.9 | 2.9 | 2.9 | 2.9 |
| | Flow Sensor | | LPM | 5~60 | 5~60 | 5~60 | 5~60 |
| | Temperature & Pressure relief valve (Tank) | | bar, ℃ | 7, 90 | 7, 90 | 7, 90 | 7, 90 |
| | Thermostat(for immersion heater) | | ℃ | 49~82±5<br>(Auto, On : 15℃±3℃ ↓) | 49~82±5<br>(Auto, On : 15℃±3℃ ↓) | 49~82±5<br>(Auto, On : 15℃±3℃ ↓) | 49~82±5<br>(Auto, On : 15℃±3℃ ↓) |
| Expansion vessel | Internal water volume | | liter | 8 | 8 | 8 | 8 |
| | Working pressure | | MPa | 0.3 | 0.3 | 0.3 | 0.3 |
| Water Pump (Primary) | Type | | - | BLDC Inv | BLDC Inv | BLDC Inv | BLDC Inv |
| | Max static pressure | | mAq | 9.5 | 9.5 | 9.5 | 9.5 |
| Water Heat Exchanger | Type | | - | Braszed Plate Exchager | Braszed Plate Exchager | Braszed Plate Exchager | Braszed Plate Exchager |
| | Quantity | | EA | 1 | 1 | 1 | 1 |
| | Internal water volume | | L | 1.01(Water Side)<br>0.98(Refrigerant Side) | 1.01(Water Side)<br>0.98(Refrigerant Side) | 1.01(Water Side)<br>0.98(Refrigerant Side) | 1.01(Water Side)<br>0.98(Refrigerant Side) |
| | Water flow rate | Min. | l/min | 7 | 7 | 7 | 7 |
| | | Max. | l/min | 48 | 48 | 48 | 48 |
| | Insulation material | | - | EPS | EPS | EPS | EPS |
| IP Class | | | - | IPX1 | IPX1 | IPX1 | IPX1 |
| Air Purge Valve | | | Φ, inch | BSPP male 3/8 | BSPP male 3/8 | BSPP male 3/8 | BSPP male 3/8 |
| Service Valve | | | Φ, inch | N/A | N/A | N/A | N/A |
| Sound | Sound Pressure | Heating | dB(A) | 26 | 26 | 26 | 26 |
| | | Cooling | dB(A) | 26 | 26 | 26 | 26 |
| | Sound Power | Heating | dB(A) | 40 | 40 | 40 | 40 |
| Casing | Color | | - | Earth brown | Earth brown | Earth brown | Earth brown |
| | Material | | - | Poweder coated Electro galvanized steel | Poweder coated Galvanised steel | Poweder coated Galvanised steel | Poweder coated Electro galvanized steel |
| Packing | Material | | - | EPS/BOX | EPS/BOX | EPS/BOX | EPS/BOX |
| | Packing Weight | | kg | 12.0 | 12.0 | 12.0 | 12.0 |
| External Dimension | Net Weight | | kg | 146.0 | 146.0 | 146.0 | 146.0 |
| | Shipping Weight | | kg | 158.0 | 158.0 | 158.0 | 158.0 |
| | Net Dimensions (WxHxD) | | mm | 595 x 1,800 x 700 | 595 x 1,800 x 700 | 595 x 1,800 x 700 | 595 x 1,800 x 700 |
| | Shipping Dimensions (WxHxD) | | mm | 700 x 2,000 x 780 | 700 x 2,000 x 780 | 700 x 2,000 x 780 | 700 x 2,000 x 780 |

**NOTE**

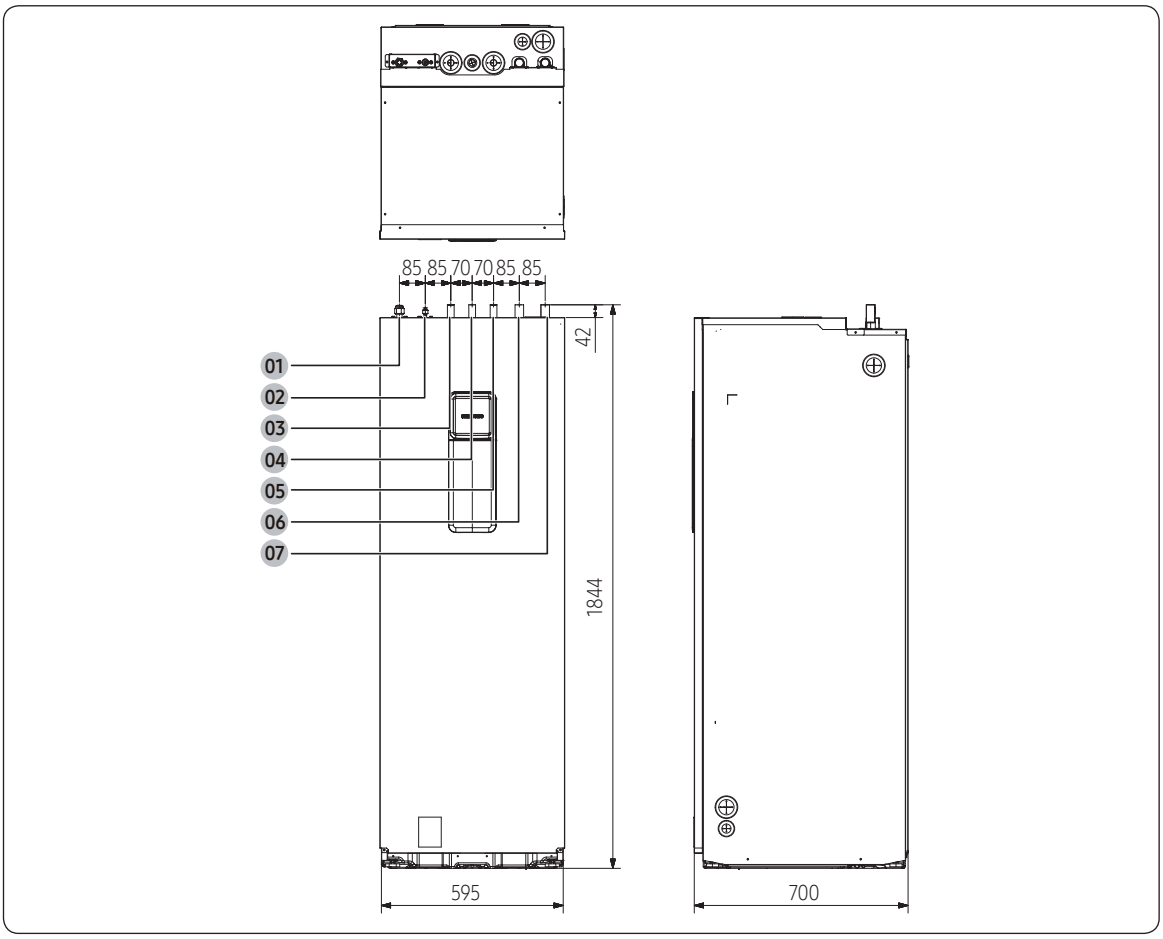
- Specifications may be subject to change without prior notice.

# 3. Tank integrated hydro unit

## 3-2. Dimensional drawing

### AE200/260RNWS*G/EU

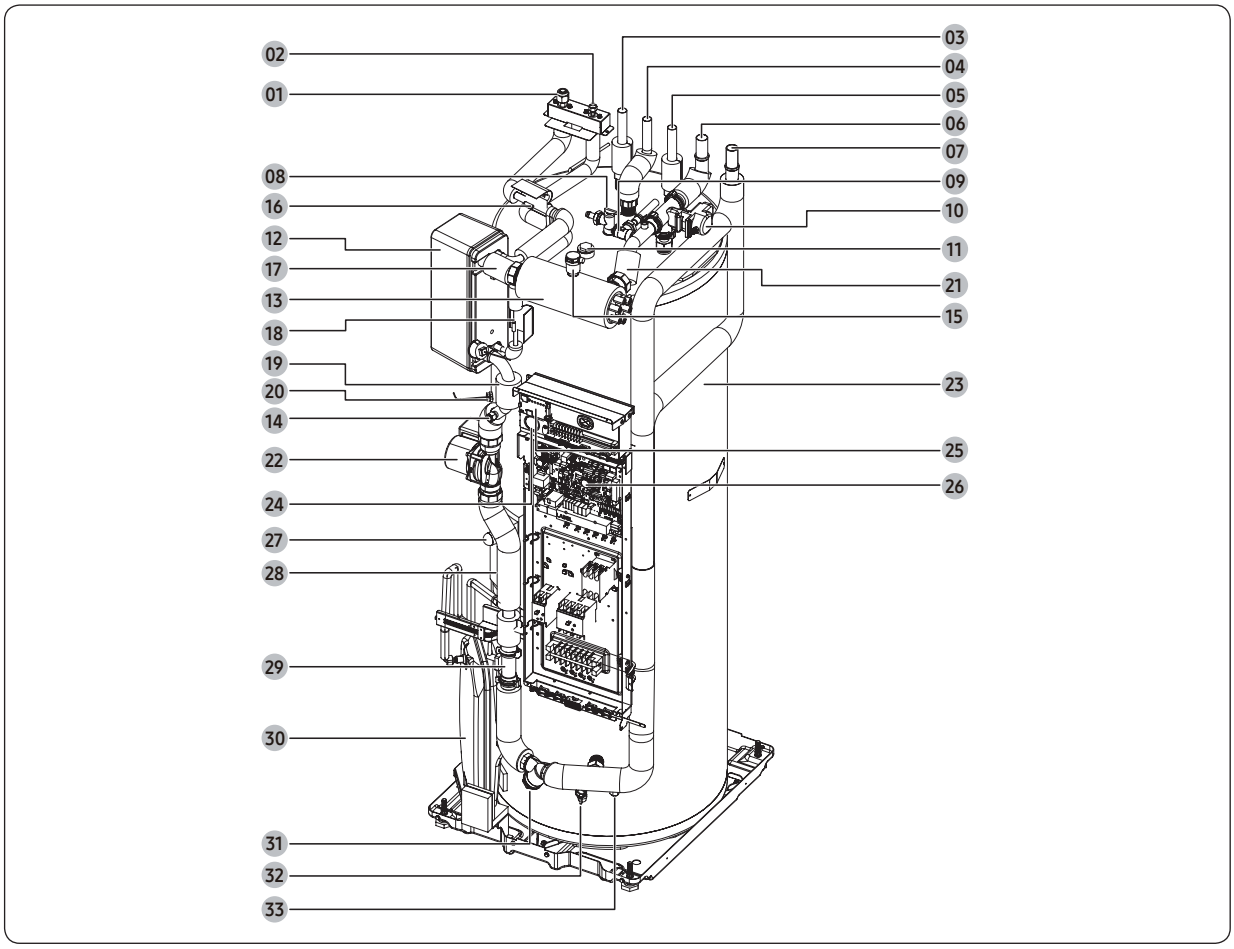
Unit : mm




| NO | Part name | Size |
|---|---|---|
| 01 | Refrigertant (Gas) | Ø15.88 |
| 02 | Refrigertant (Liquid) | Ø6.35 |
| 03 | Hot water outlet | Ø22, T1.0 |
| 04 | Secondary return (260 L option) | Ø22, T1.0 |
| 05 | Cold water inlet | Ø22, T1.0 |
| 06 | Space heating outlet | Ø28, T1.2 |
| 07 | Space heating inlet | Ø28, T1.2 |

# 3. Tank integrated hydro unit

## 3-2. Dimensional drawing

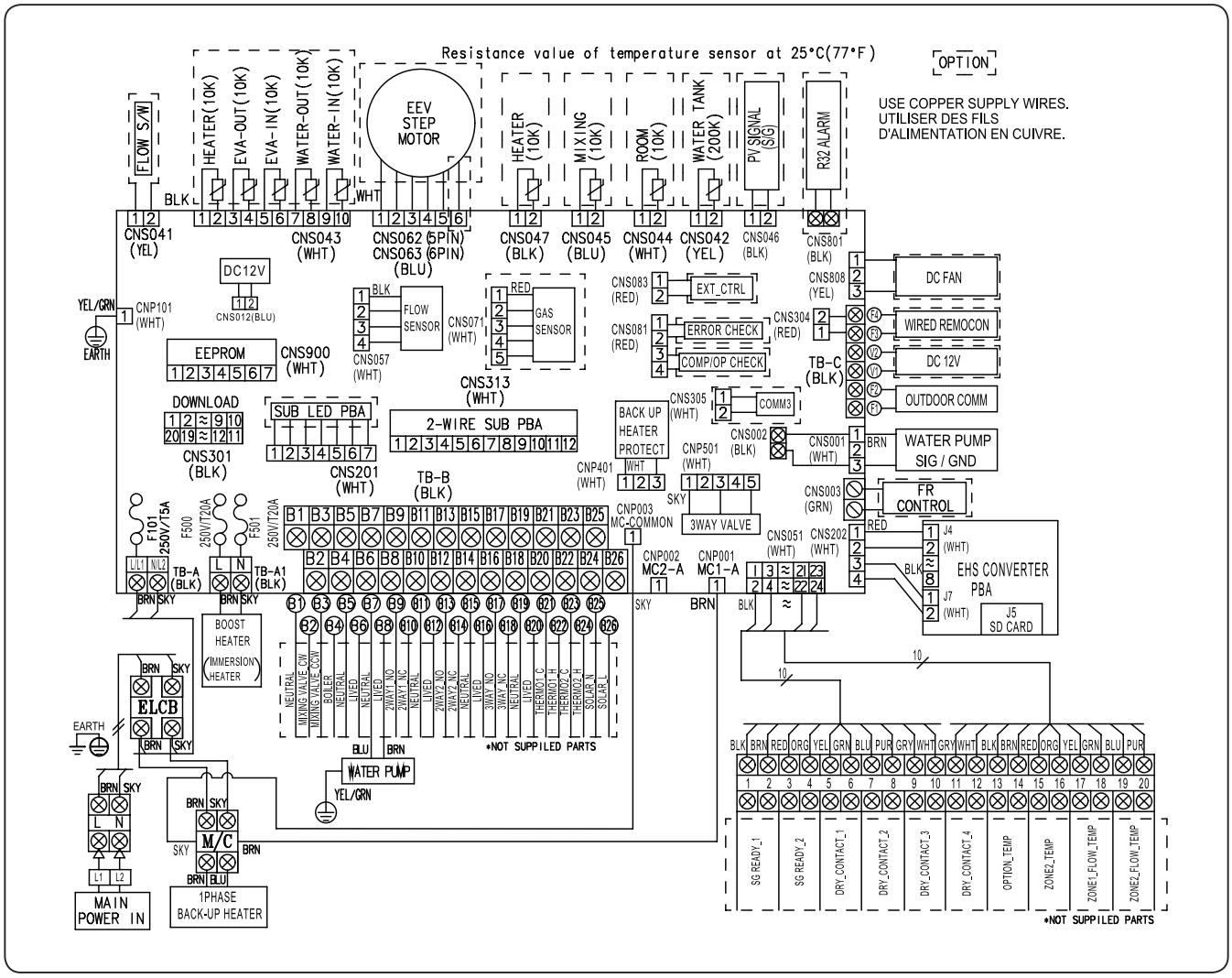



| NO | Part name | Note | NO | Part name | Note |
|---|---|---|---|---|---|
| 01 | Refrigerant pipe | ø15.88 (5/8"), Flare nut | 18 | Eva-out thermistor | |
| 02 | Refrigerant pipe | ø6.35 (1/4"), Flare nut | 19 | Water-in thermistor | |
| 03 | Hot water outlet | ø22, Straight pipe | 20 | Tank thermistor | |
| 04 | Secondary return | ø22, Straight pipe (260 L option) | 21 | Heater thermistor | |
| 05 | Cold water inlet | ø22, Straight pipe | 22 | Water pump | |
| 06 | Space heating outlet | ø28, Straight pipe | 23 | Water tank | 200 L / 260 L |
| 07 | Space heating inlet | ø28, Straight pipe | 24 | Manometer | 0~4 bar |
| 08 | T/P valve | 7 bar, 90°C | 25 | S/D converter | |
| 09 | Pressure relief valve | 3 bar, BSPP 1/2" | 26 | Control box | |
| 10 | 3-way valve | | 27 | Booster heater | 3kW |
| 11 | Anode bar | BSPP 1” | 28 | Booster heater thermostat | |
| 12 | Plate heat exchanger | | 29 | Flow sensor | |
| 13 | Back-up heater | | 30 | Expasion vessel | 8 L, Pre-charge gas: 0.1 MPa, N2, BSPP 3/8” |
| 14 | Drain port | | 31 | Strainer | |
| 15 | Air vent | BSPP 3/8” | 32 | Tank drain valve | |
| 16 | Eva-in thermistor | | 33 | Drain port | Primary circuit |
| 17 | Water-out thermistor | | | | |

# 3. Tank integrated hydro unit

## 3-3. Electrical wiring diagram

### AE200RNWSEG/EU, AE260RNWSEG/EU




※ It does not support external input(CNS083)/output(CNS081) signal function

| | | | |
|---|---|---|---|
| HEATER | Thermistor HEATER(10K) | EVA-OUT | Thermistor EVA-OUT(10K) |
| EVA-IN | Thermistor EVA-IN(10K) | WATER-OUT | Thermistor WATER-OUT(10K) |
| WATER-IN | Thermistor WATER-IN(10K) | WATER TANK | Thermistor WATER TANK(200K) |
| MIXING | Thermistor MIXING VALVE(10K) | WIRED REMOCON | Wired Remote Controller |
| OUTDOOR COMM | Outdoor Communication | SIG/GND | Signal/Ground |
| ELCB | Earth Leakage Circuit Breaker | M/C | Magnetic Contactor |

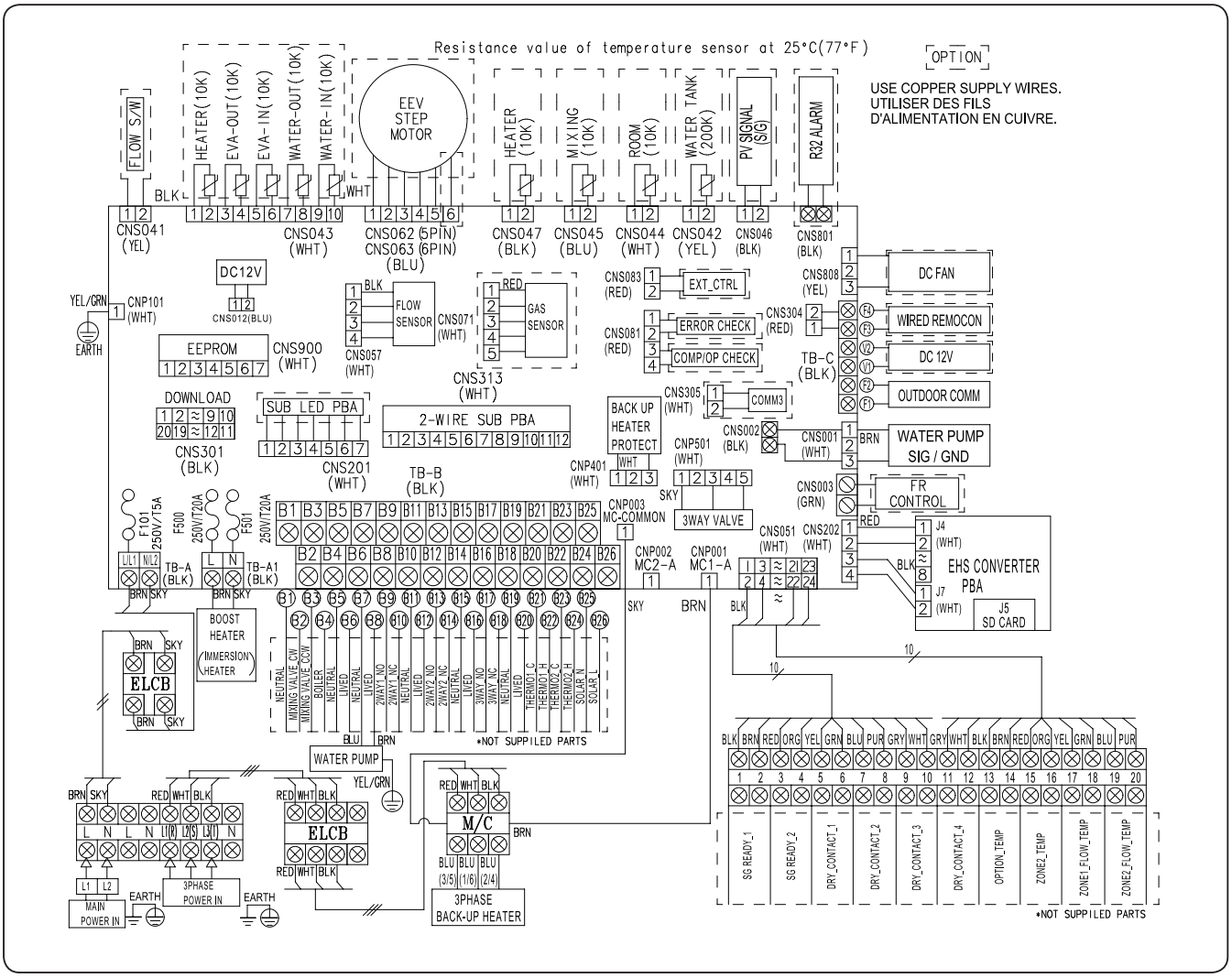
### NOTE

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

# 3. Tank integrated hydro unit

## 3-3. Electrical wiring diagram

### AE260RNWSGG/EU




※ It does not support external input(CNS083)/output(CNS081) signal function

| | | | |
|---|---|---|---|
| HEATER | Thermistor HEATER(10K) | EVA-OUT | Thermistor EVA-OUT(10K) |
| EVA-IN | Thermistor EVA-IN(10K) | WATER-OUT | Thermistor WATER-OUT(10K) |
| WATER-IN | Thermistor WATER-IN(10K) | WATER TANK | Thermistor WATER TANK(200K) |
| MIXING | Thermistor MIXING VALVE(10K) | WIRED REMOCON | Wired Remote Controller |
| OUTDOOR COMM | Outdoor Communication | SIG/GND | Signal/Ground |
| ELCB | Earth Leakage Circuit Breaker | M/C | Magnetic Contactor |

### NOTE

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

# 3. Tank integrated hydro unit

## 3-4. Sound data

### Summary

| Capacity (Liter) | Model | Sound Pressure dB(A) (Heating) | Sound Power dB(A) (Heating) |
|---|---|---|---|
| 200 | AE200RNWSEG/EU+AE040RXEDEG/EU | 26 | 40 |
| | AE200RNWSEG/EU+AE060RXEDEG/EU | 26 | 40 |
| | AE200RNWSEG/EU+AE090RXEDEG/EU | 26 | 40 |
| 260 | AE260RNWSGG/EU+AE090RXEDGG/EU | 26 | 40 |
| 260 | AE260RNWSEG/EU + AE040RXEDEG/EU | 26 | 40 |
| | AE260RNWSEG/EU + AE060RXEDEG/EU | 26 | 40 |
| | AE260RNWSEG/EU + AE090RXEDEG/EU | 26 | 40 |

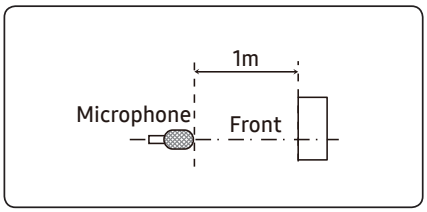
**NOTE**

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - 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
- Sound Power Level
  - 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.

# 3. Tank integrated hydro unit

## 3-4. Sound data

### Sound Pressure level

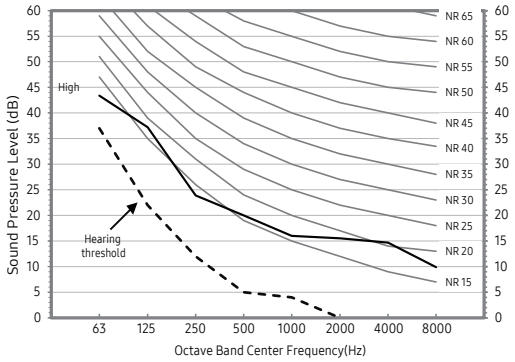



Unit: dB(A)

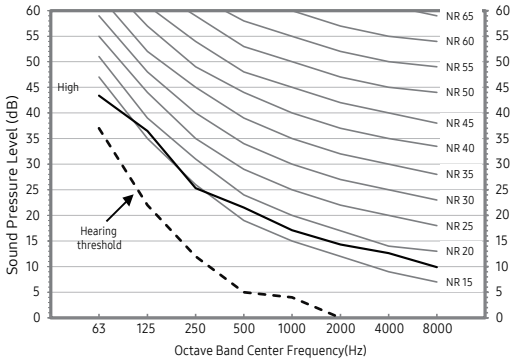
| Model | Heating |
|---|---|
| AE200RNWSEG/EU+AE040RXEDEG/EU | 26 |
| AE200RNWSEG/EU+AE060RXEDEG/EU | 26 |
| AE200RNWSEG/EU+AE090RXEDEG/EU | 26 |
| AE260RNWSGG/EU+AE090RXEDGG/EU | 26 |

- NR Curve

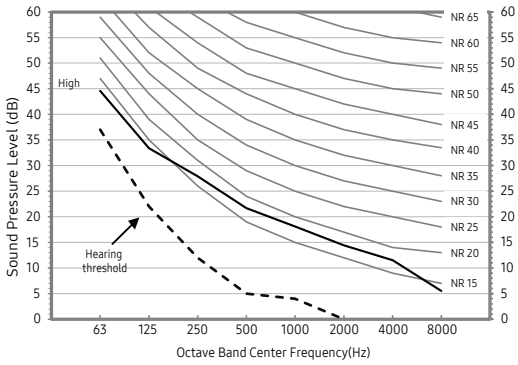
1) AE200RNWSEG/EU+AE040RXEDEG/EU



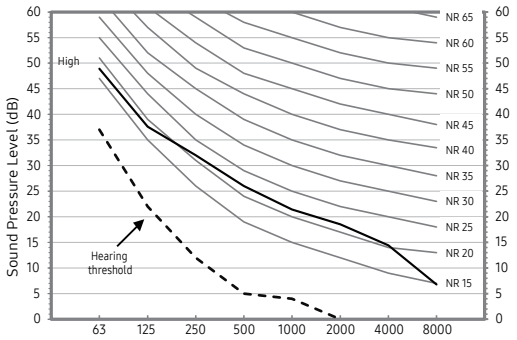

2) AE200RNWSEG/EU+AE060RXEDEG/EU




3) AE200RNWSEG/EU+AE090RXEDEG/EU




4) AE260RNWSGG/EU+AE090RXEDGG/EU



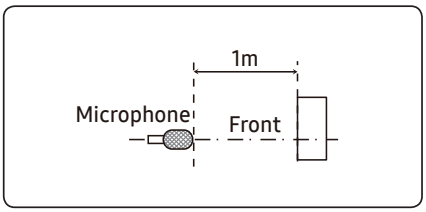

**NOTE**

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - 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

# 3. Tank integrated hydro unit

## 3-4. Sound data

### Sound Pressure level

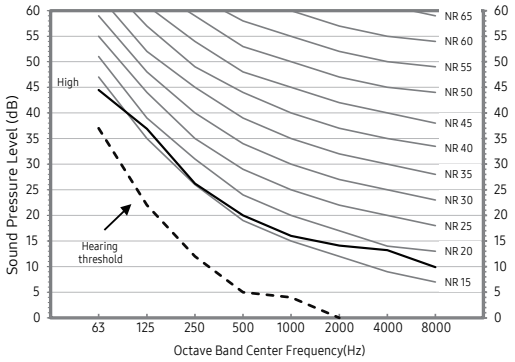



Unit: dB(A)

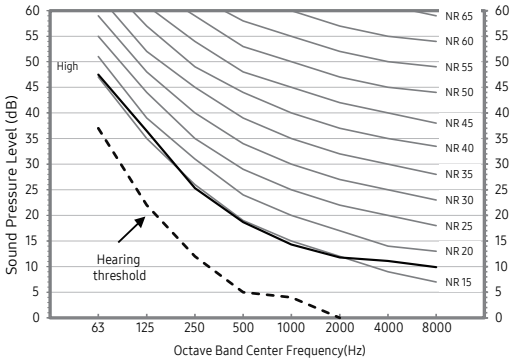
| Model | Heating |
|---|---|
| AE260RNWSEG/EU + AE040RXEDEG/EU | 26 |
| AE260RNWSEG/EU + AE060RXEDEG/EU | 26 |
| AE260RNWSEG/EU + AE090RXEDEG/EU | 26 |

- NR Curve

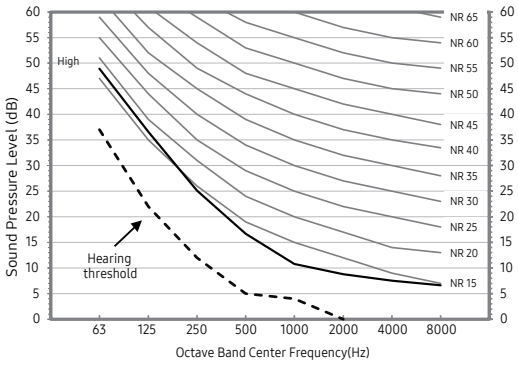
1) AE260RNWSEG/EU + AE040RXEDEG/EU




2) AE260RNWSEG/EU + AE060RXEDEG/EU




3) AE260RNWSEG/EU + AE090RXEDEG/EU




### NOTE

- Specifications may be subject to change without prior notice.
- Sound Pressure Level
  - 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

# 3. Tank integrated hydro unit

## 3-4. Sound data

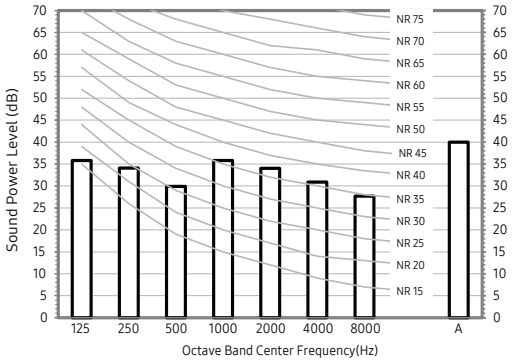
### Sound Power level

**NOTE**

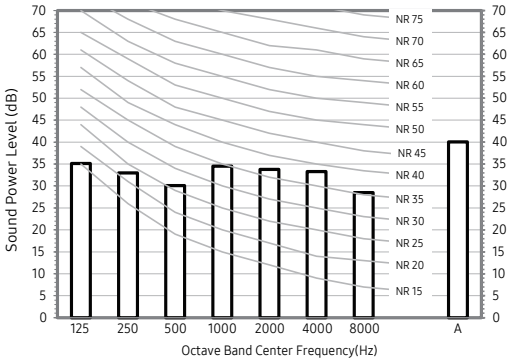
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

| Model | Power (dBA) |
|---|---|
| AE200RNWSEG/EU+ AE040RXEDEG/EU | 40 |
| AE200RNWSEG/EU+ AE060RXEDEG/EU | 40 |
| AE200RNWSEG/EU+ AE090RXEDEG/EU | 40 |
| AE260RNWSGG/EU+ AE090RXEDGG/EU | 40 |

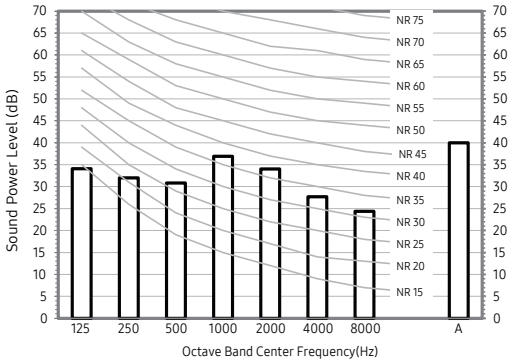
1) AE200RNWSEG/EU+AE040RXEDEG/EU



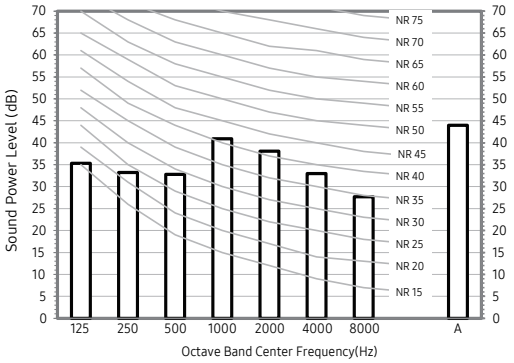

2) AE200RNWSEG/EU+AE060RXEDEG/EU




3) AE200RNWSEG/EU+AE090RXEDEG/EU




4) AE260RNWSGG/EU+AE090RXEDGG/EU



# 3. Tank integrated hydro unit

## 3-4. Sound data

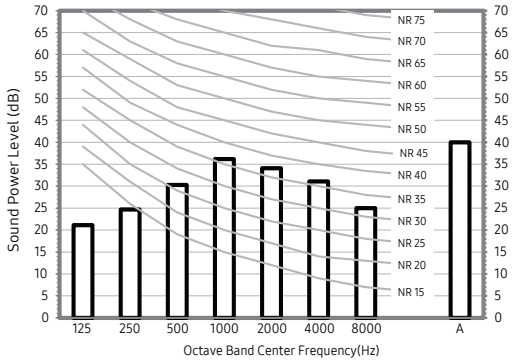
### Sound Power level

**NOTE**

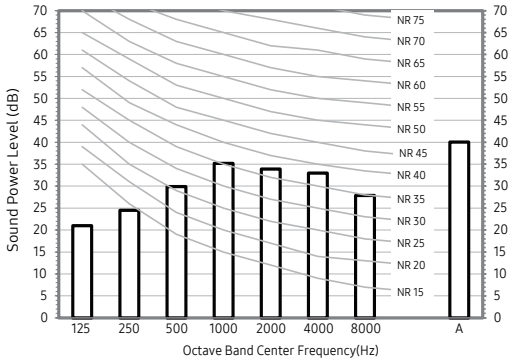
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

| Model | Power (dBA) |
|---|---|
| AE260RNWSEG/EU + AE040RXEDEG/EU | 40 |
| AE260RNWSEG/EU + AE060RXEDEG/EU | 40 |
| AE260RNWSEG/EU + AE090RXEDEG/EU | 40 |

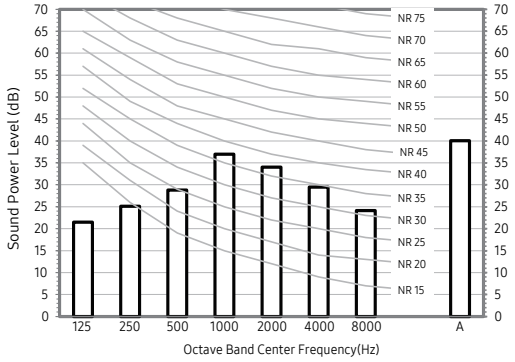
1) AE260RNWSEG/EU + AE040RXEDEG/EU




2) AE260RNWSEG/EU + AE060RXEDEG/EU



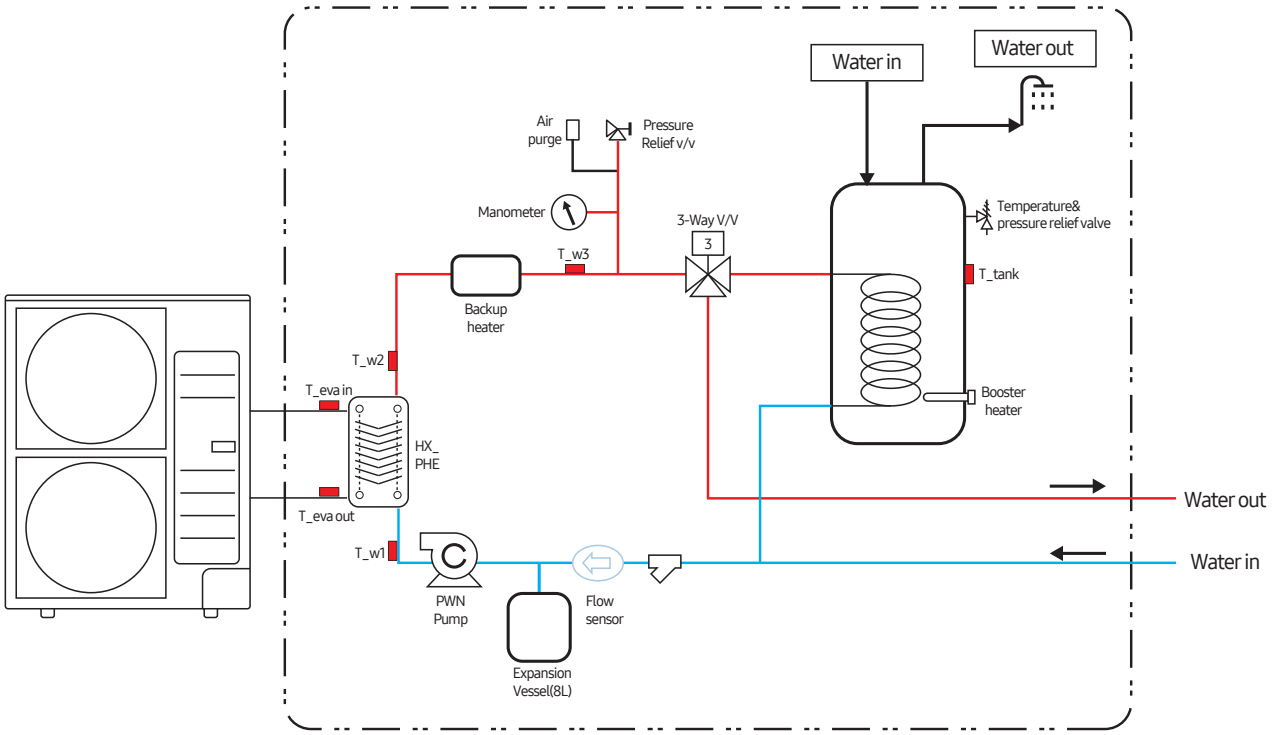

3) AE260RNWSEG/EU + AE090RXEDEG/EU



# 3. Tank integrated hydro unit

## 3-5. Piping diagram

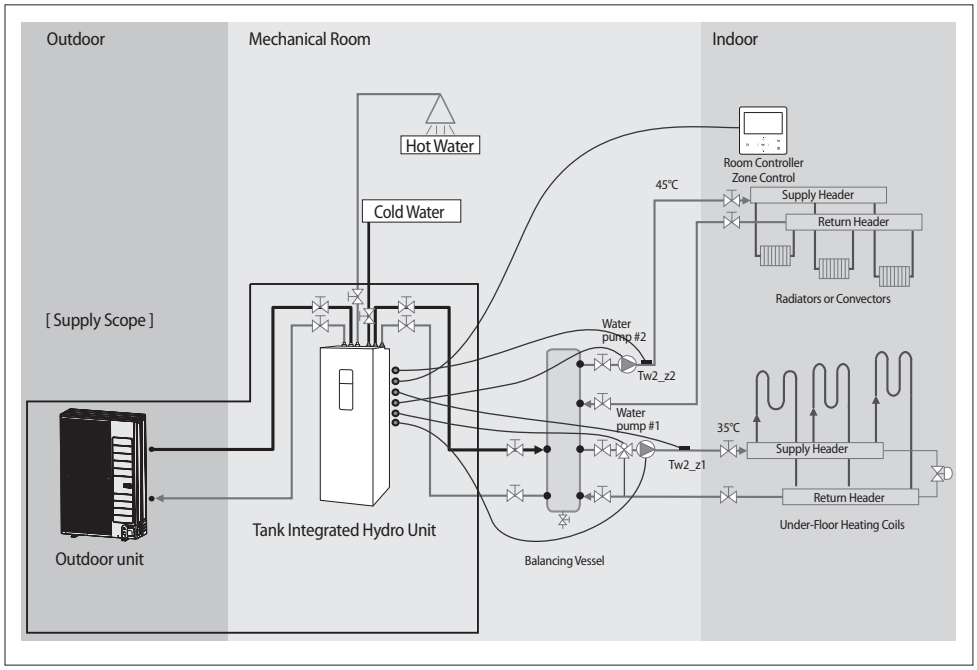
### AE200/260RNWS*G/EU



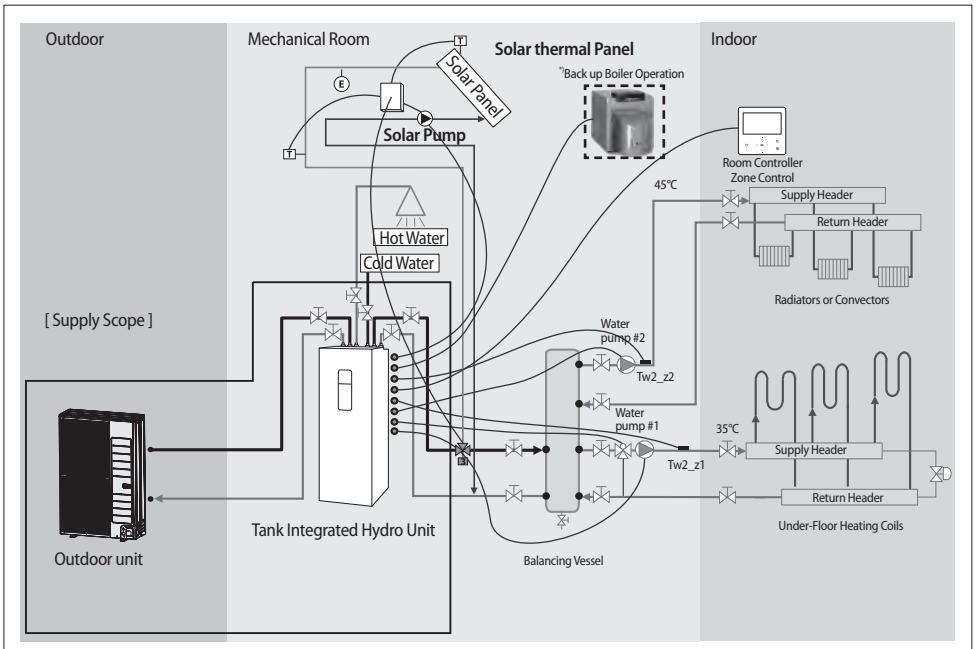
# 4. Installation

## Tank integrated hydro unit

### Application 1: Space heating + water heating




### Application 2: Hybrid application (backup boiler and solar panel conencted)



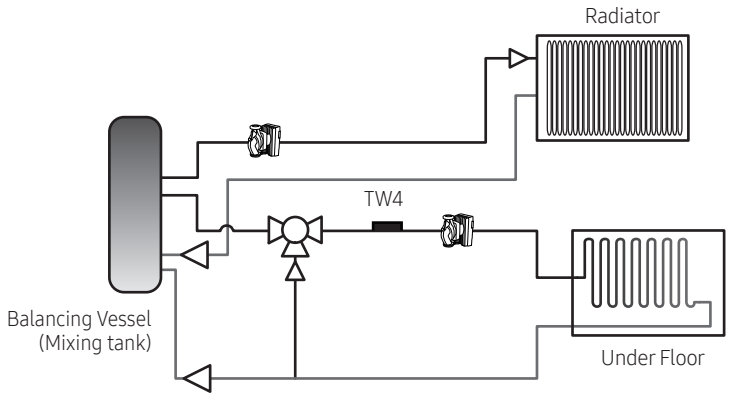

*) We control only the on / off signal of backup boiler according to outdoor temperature.
Backup boiler should be installed with own device according to the field condition.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Tank integrated hydro unit

### Installation of mixing valve




When two different zones are used with different temperature, adjust the temperature of discharge water to high temperature water and control the amount of bypass to provide low temperature water by applying the mixing valve and temperature sensor of the mixing valve (TW4).

1. Select a mixing valve from the manufacturers as below (recommended) and install it at the enterance of the zone.
2. Install the supplied temperature sensor (TW4) on the rear part of the mixing valve.Install TW4 Sensor within 1m of Mixing Valve.
3. Since running time varies depending on the manufacturer, set the FSV (default 90 sec.) by referring to the FSV value below.

| Maker | | BELIMO | SIEMENS | HONEYWELL |
|---|---|---|---|---|
| Model code | 3 Way Valve | R3020-6P3-S2 | VXP45.20-4 (kvs 4) | V5011E1213 |
| | Actuator | LR230A(-S) | SSB31 | ML6420A3015 |
| Running time | | 90 sec. | 150 sec. | 60 sec. |
| FSV(#4046) setting | | 9 | 15 | 6 |

※ The table above is for your reference. It can be changed without advanced notice.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Tank integrated hydro unit

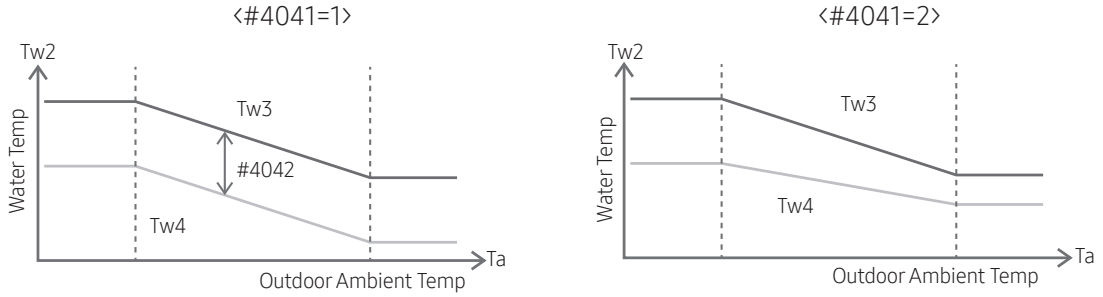
4. Set the FSV value by referring to the table below depending on installation environment.

| Function | Details | Code | Unit | Default | Min. | Max. |
|---|---|---|---|---|---|---|
| Mixing valve | Use or not | 4041 | - | 0(No) | 0 | 2 |
| | Target temperature difference (Heating) (TW3-TW4) | 4042 | °C | 10 | 5 | 15 |
| | Target temperature difference (Cooling) (TW4-TW3) | 4043 | °C | 10 | 5 | 15 |
| | Control factor | 4044 | - | 2 | 1 | 5 |
| | Interval of valve control | 4045 | Min. | 2 | 1 | 30 |
| | Running time (10 second unit) | 4046 | (x10) sec | 9 | 6 | 24 |

※ 4041 =1 : Controlled based on the temperature difference (4042, 4043)

※ 4041 =2 : Controlled based on the temperature difference of the WL value

ex) Heating




※ The mixing valve is controlled based on the FCU WL value.

※ As the #4044 value increases and the #4045 value decreases, the control speed increases. (Temperature hunting may occur if the control speed increases depending on the load.)

※ The additional pump and mixing valve should be purchased separately. TW4 sensor is included in the product accessories.

※ TW3 : Water temp. sensor 3

## ⚠ CAUTION

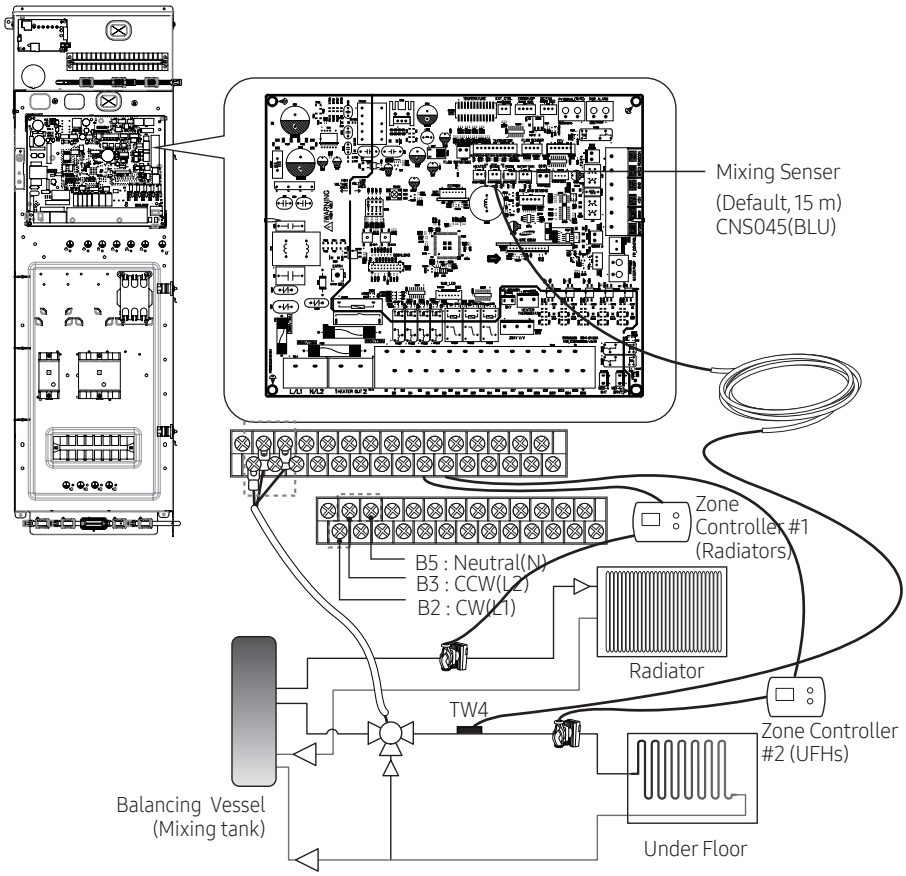
- When the thermostat control is set as 'Use', the mixing valve can be used for Zone 1 and Zone 2. (When both FSV #2091 and #2092 are set as 1/2)
- When using Zone control (FSV 4061 = 1), ignore Thermostat signal.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Tank integrated hydro unit

### 2-zone control using Thermostat




| Description | No. of wires | Max. current | Thickness | Supply Scope |
|---|---|---|---|---|
| Mixing valve | 4 | 22 mA | > 0.75 mm², H05RN-F or H07RH-F | Field supply (230 V~, Input) |

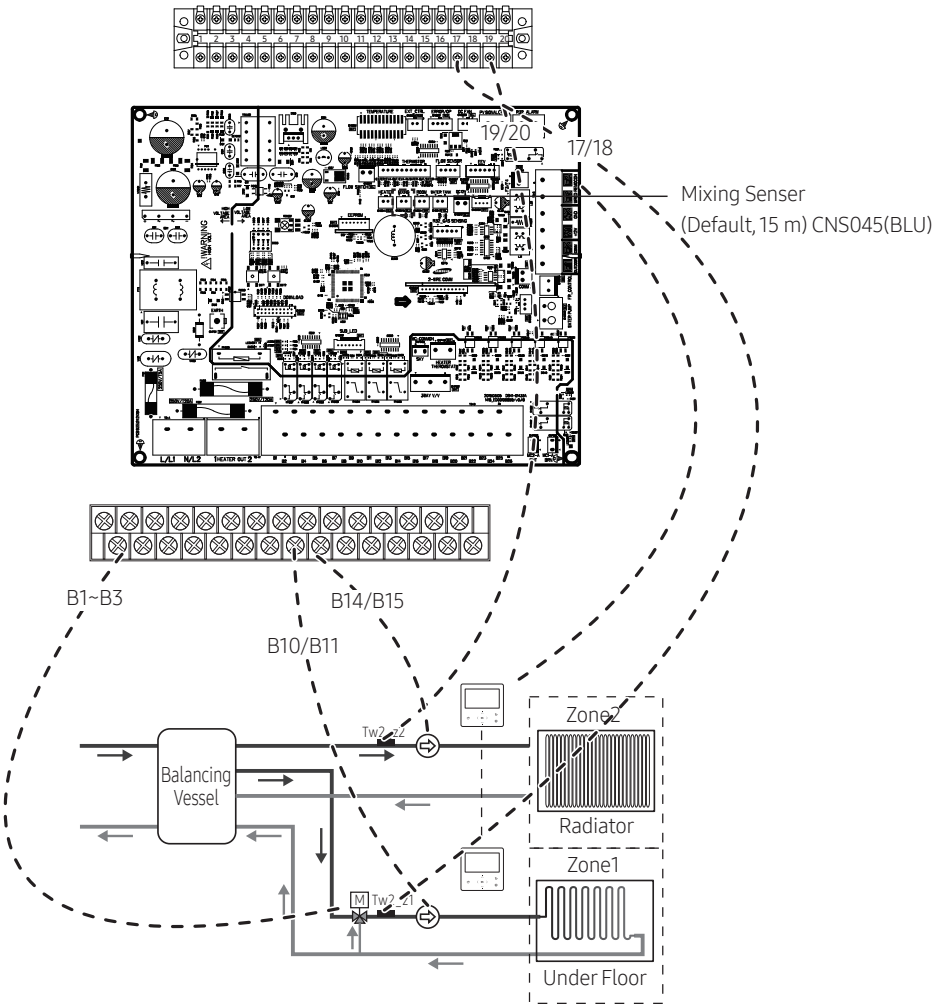
1. Before the installation, hydro unit should be turned off.
2. Using the appropriate equipment to correct position of terminal block as shown on the diagram.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Tank integrated hydro unit

### 2-Zone Control Using Remote Controller




You can operate the 2-zone control using a mixing value, water-out temperature sensors, and built-in or external room temperature sensors installed in a wired remote controller.

When both zones are simultaneously Thermo on, the operation is performed based on Zone2. Therefore, set the zone that you want to have the higher set temperature to Zone2.

(The mixing valve must be installed in the zone that you want to have the lower set temperature.)

1. Install the mixing valve. (See "Installation of mixing valve.")
2. Install the water-out temperature sensors (Tw2_z1, Tw2_z2) for all zones.
3. Unlike the zone control with a thermostat, connect the water pump signal lines to the product.
   - Zone1 water pump connection: B10 (L1) + B11 (N)
   - Zone2 water pump connection: B14 (L1) + B15 (N)
4. FSV 4061 = 1: Enable the 2-zone control using the wired remote controller.

※ If you want to operate the 2-zone control by using water-out temperatures, you have only to complete steps 1 to 4 above.

※ If you want to operate the 2-zone control by using room temperatures and built-in temperature sensors in wired remote controllers, you must install two wired remote controllers in each room. (If you use external room temperature sensors, you can control each room temperature with only one wired remote controller.)

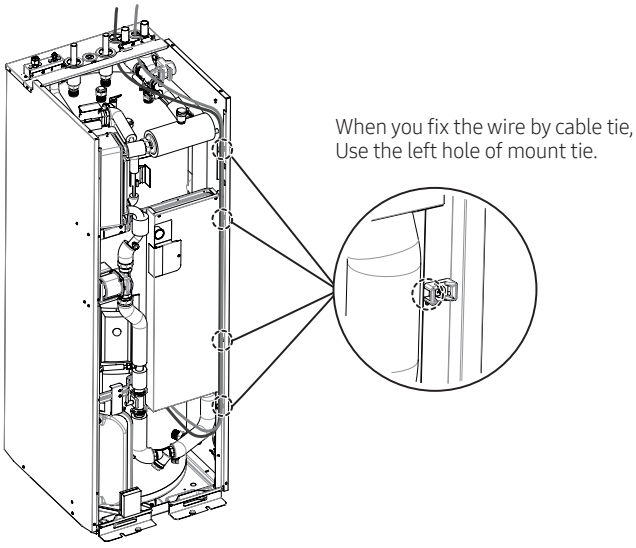
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

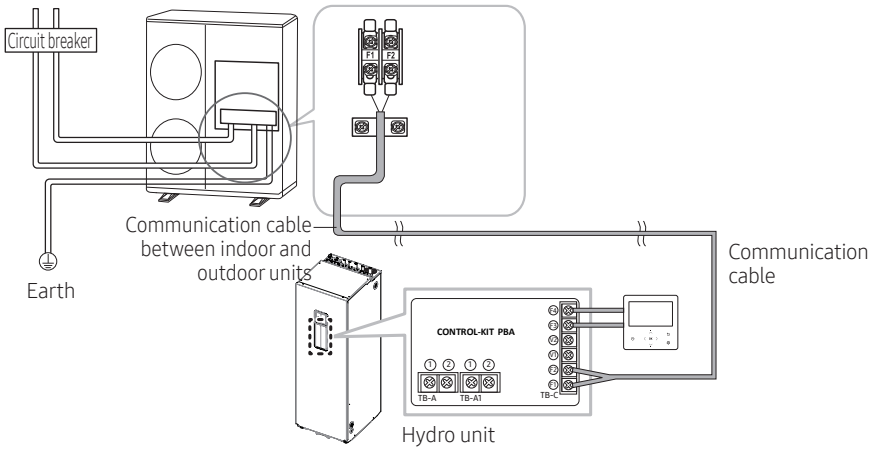
## Tank integrated hydro unit

### Wiring work

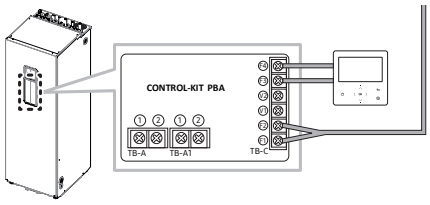
* When you use inlet hole through the cabinet top positions for power/communication wires, please fix the wire by using mount tie of the cabinet right.




### 2 wires for communication cable




### Communication cable connection

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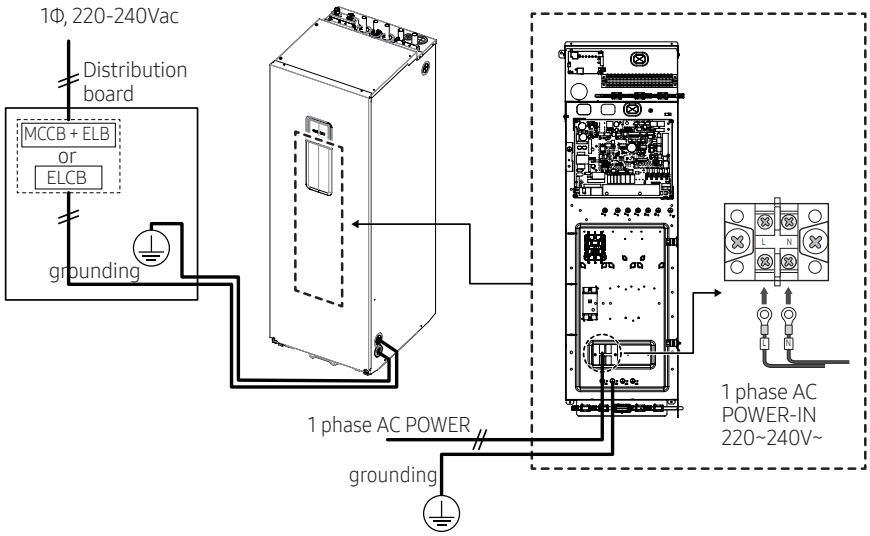
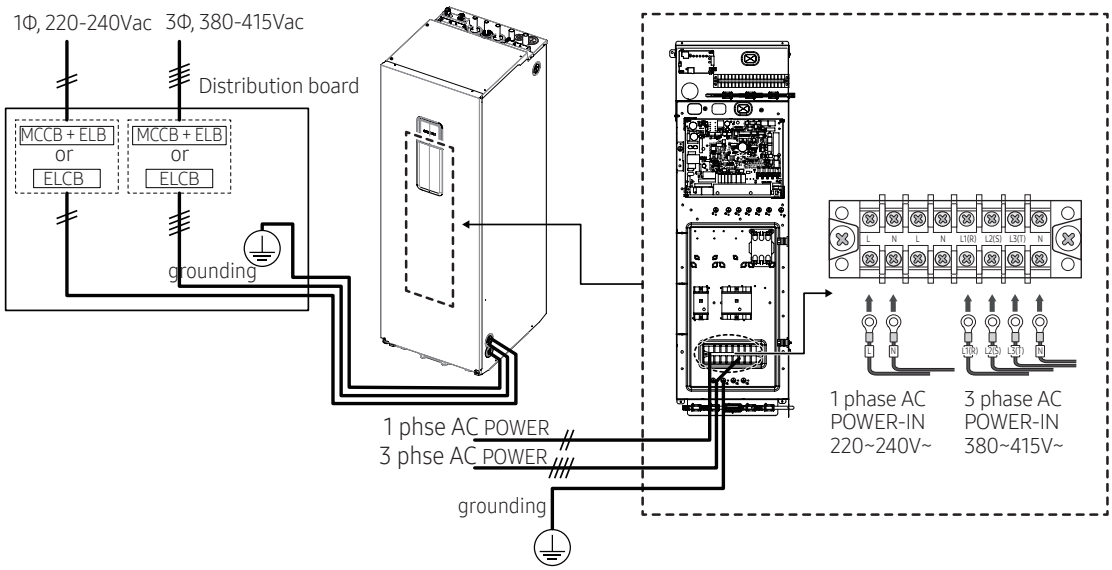
# 4. Installation

## Tank integrated hydro unit

1. 1 phase product




2. 3 phase product




## ⚠ CAUTION

- If the supply cable is damaged, it must be replaced by a special cable or assembly available from the manufacturer or installer.
- Circuit Breaker (ELCB, ELB, MCCB etc.) for outdoor and indoor units shall be installed by installers because they are not sub-parts in the units. But you don't need to install for hydro unit (Built-in ELCB).
- It cause damage to chassis, PCB parts if the main power is not connected correctly. You should make certain that R, S, T is connected correctly before turning on the main power. (3 phase models only)

※ ELCB : Earth leakage circuit breaker
ELB : Earth leakage breaker
MCCB : Molded case circuit breaker

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

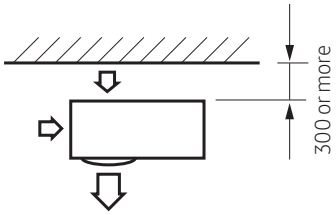
# 4. Installation

## Outdoor Unit

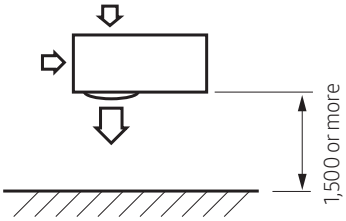
### Space requirements for outdoor unit

#### When installing 1 outdoor unit

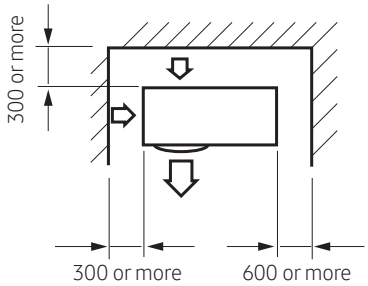
(Unit : mm)



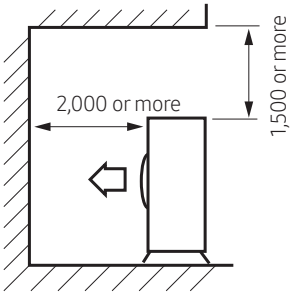

※ When the air outlet is opposite the wall



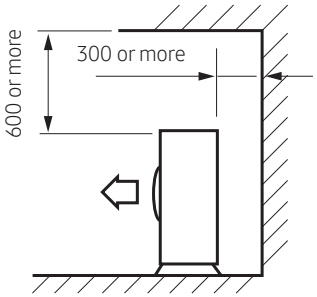

※ When the air outlet is towards the wall



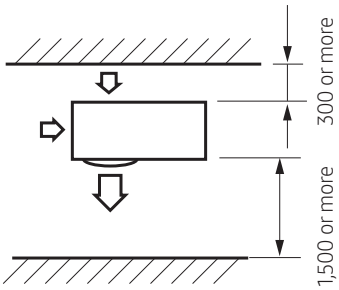

※ When 3 sides of the outdoor unit are blocked by the wall




※ The upper part of the outdoor unit and the air outlet is towards the wall




※ The upper part of the outdoor unit and the air outlet is opposite the wall




※ When front and rear side of the outdoor unit is towards the wall

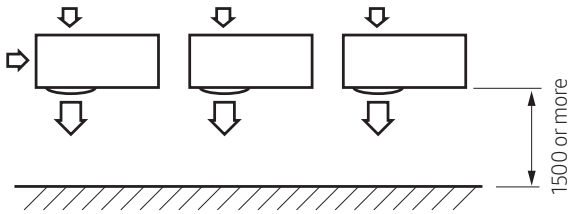
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

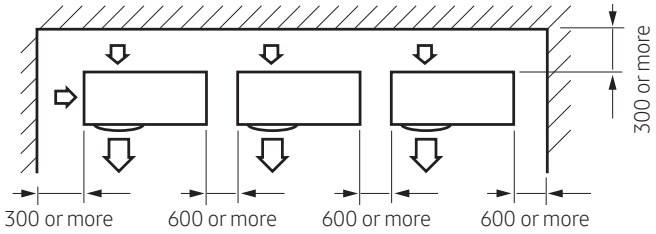
## Outdoor Unit

### When installing more than 1 outdoor unit

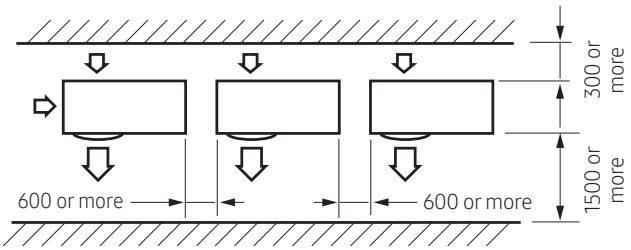
(Unit : mm)



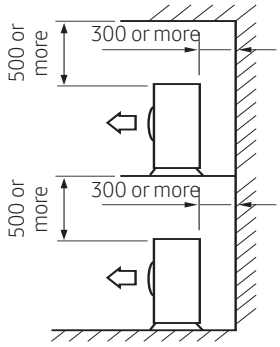

※ When the air outlet is towards the wall



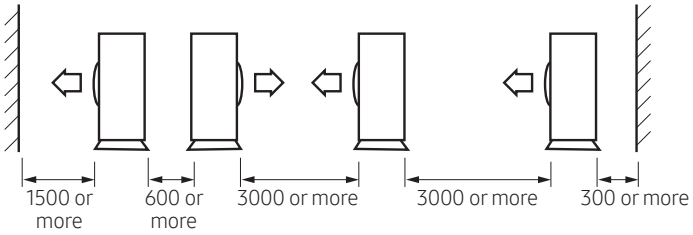

※ When 3 sides of the outdoor unit are blocked by the wall




※ When front and rear side of the outdoor unit is towards the wall




※ The upper part of the outdoor unit and the air outlet is opposite the wall




※ When front and rear side of the outdoor unit is towards the wall

## ⚠ CAUTION

- The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products. The unit's parts must be reachable and removable completely under safety condition (for people or things).

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Outdoor Unit

### Outdoor unit installation

The outdoor unit must be installed on a rigid and stable base to avoid any increase in the noise level and vibration, particularly if the outdoor unit is to be installed in a location exposed to strong winds or at a height, the unit must be fixed to an appropriate support(wall or ground).

- Fix the outdoor unit with anchor bolts.

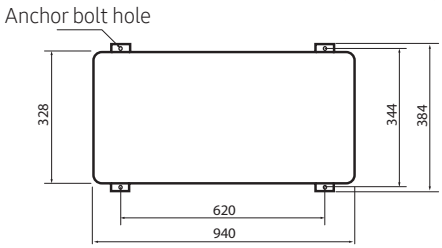
**NOTE**

- The mixing valve is controlled based on the FCU WL value.

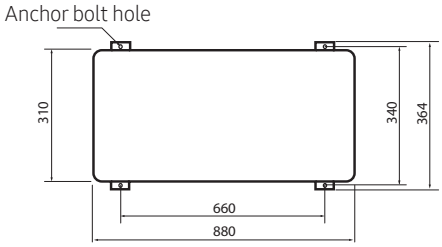
**CAUTION**

- When tightening the anchor bolt, tighten the rubber washer to prevent the outdoor unit bolt connection part from corroding.
- Make a drain outlet around the base for outdoor unit drainage.
- If the outdoor unit is installed on the roof, you have to check the ceiling strength and waterproof the unit.

(Unit : mm)




(Unit : mm)



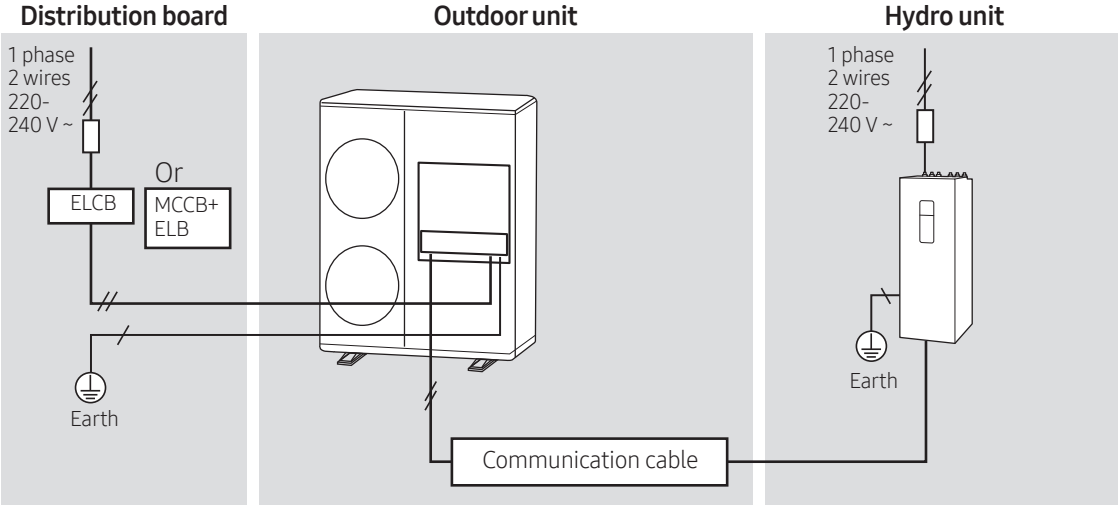

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Outdoor Unit

### Overall system configuration

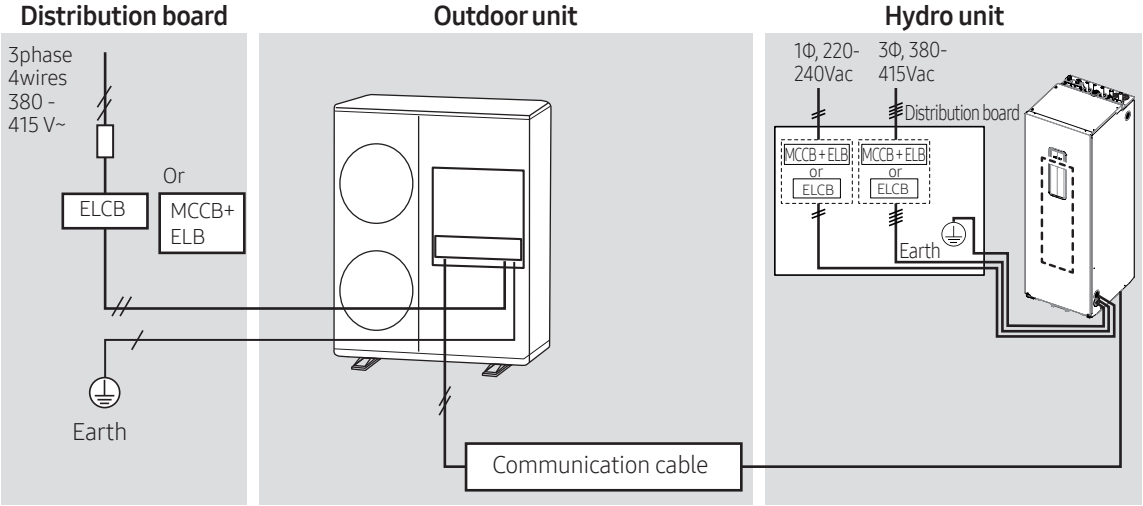
#### Connection of the power cable (1 phase 2 wires)




### ⚠ CAUTION

- Install cabinet panel near the outdoor unit for the convenience of service and emergency operation off.
- Make sure to install the circuit breaker with the over-current and electric leakage protection.

#### Connection of the power cable (3 phase 4 wires)




### ⚠ CAUTION

- Install cabinet panel near the outdoor unit for the convenience of service and emergency operation off.
- Make sure to install the circuit breaker with the over-current and electric leakage protection.

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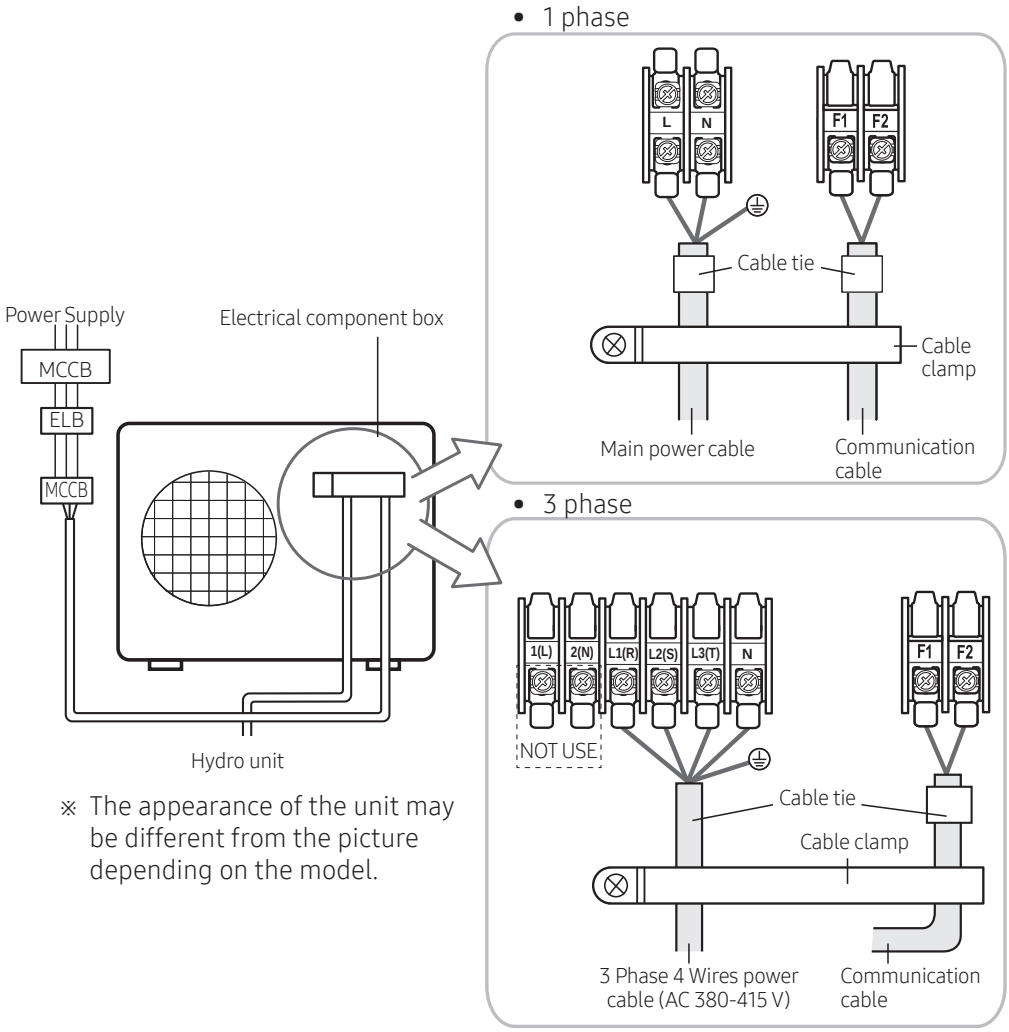
# 4. Installation

## Outdoor Unit

### Wiring diagram of power cable

#### When using ELB for1 phase and 3 phase




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

## ⚠ CAUTION

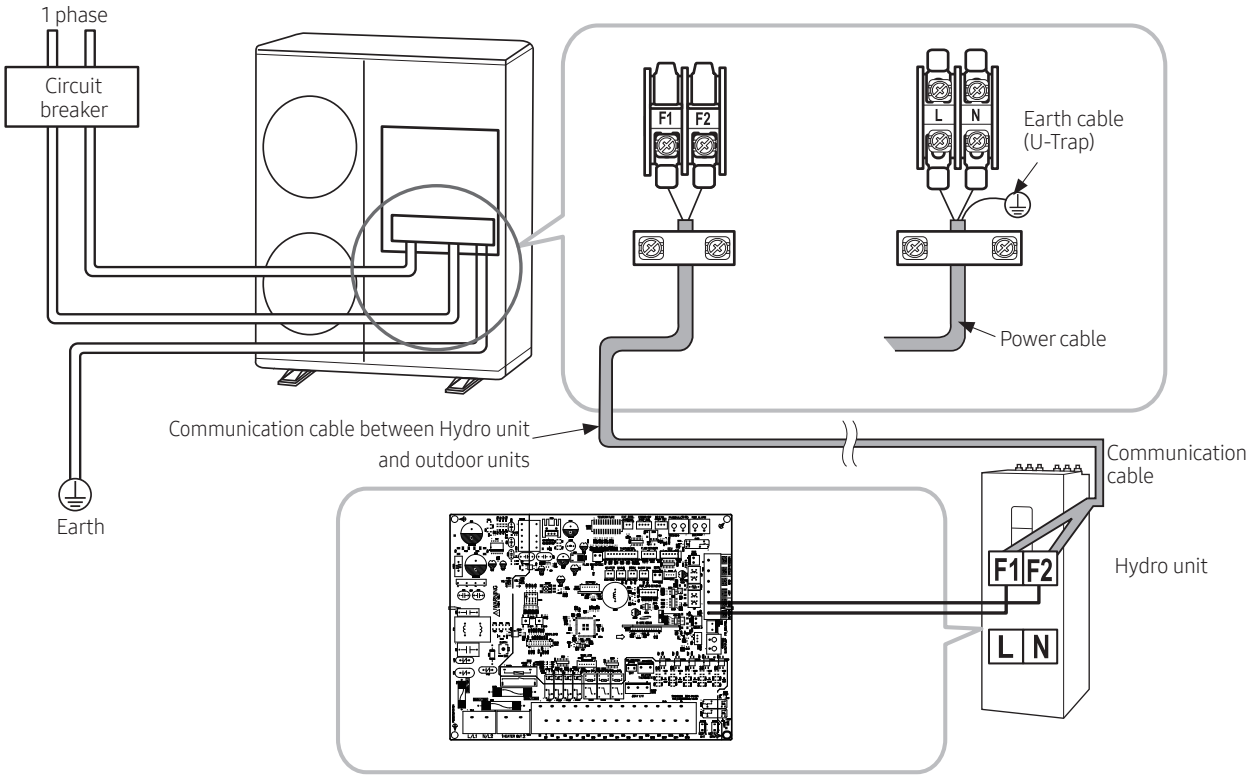
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 2 % of supply rating.
  - If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4 % of supply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

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Outdoor Unit

### 1 phase 2 wires




## ⚠ CAUTION

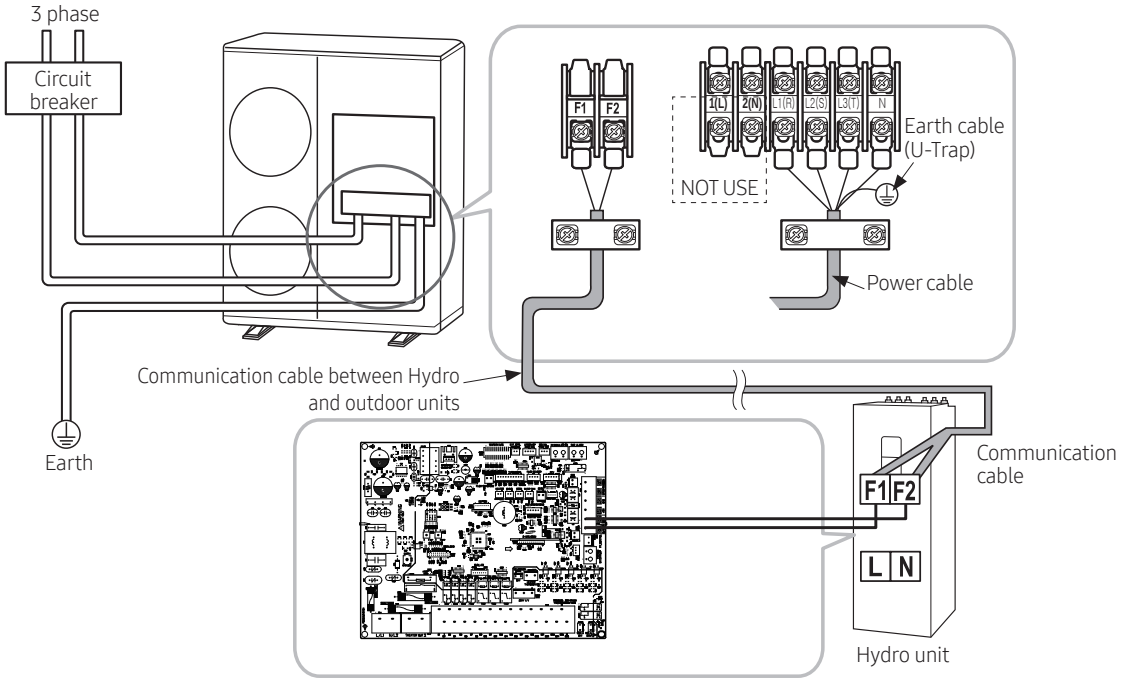
- When removing the outer cover of the power cable, use the appropriate tools to prevent damaging the inner cover.
- Make sure to place the outer cover of the power cable and the communication cable, at least 20 mm into the electrical parts.
- Communication wiring should be done separately from the power cable and other communication cables.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

# 4. Installation

## Outdoor Unit

### 3 phase 4 wires




## ⚠ CAUTION

- When removing the outer cover of the power cable, use the appropriate tools to prevent damaging the inner cover.
- Make sure to place the outer cover of the power cable and the communication cable, at least 20 mm into the electrical parts.
- Communication wiring should be done separately from the power cable and other communication cables.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

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Ver.2.1

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