

AIR CONDITIONER

**Duct type**

# DESIGN & TECHNICAL MANUAL

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## INDOOR



ARUH18LUAS  
ARUH24LUAS  
ARUH30LUAS



ARUH36LUAS

## OUTDOOR



AOUH18LUAS1



AOUH24LUAS1



AOUH30LUAS1  
AOUH36LUAS1

**FUJITSU GENERAL LIMITED**

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# Part 1. INDOOR UNIT

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ARUH18LUAS

ARUH24LUAS

ARUH30LUAS

ARUH36LUAS

# 1. Specifications

| Type   |                       |                             |                 | Duct  |  |                          |               |            |
|--|-----------------------|-----------------------------|-----------------|---|--|--------------------------|---------------|------------|
|  |                       |                             |                 | Inverter, Heat pump                                     |  |                          |               |            |
| Model name                                   |                       |                             |                 | ARUH18LUAS  | ARUH24LUAS                                     | ARUH30LUAS               |               |            |
| Power supply intake                          |                       |                             |                 | Outdoor unit  |  |                          |               |            |
| System power supply                          |                       | Voltage                     |                 | 208/230   |  |                          |               |            |
|  |                       | Frequency                   |                 | 60  |  |                          |               |            |
|  |                       | Available voltage range     |                 | 187—253   |  |                          |               |            |
| Indoor unit power supply (from outdoor unit) |                       |                             |                 | V   | 208/230  |                          |               |            |
| Capacity                                     | Cooling               |                             | Rated           | kW  | 5.02   | 7.03                     | 8.79          |            |
|  |                       |                             |                 | Btu/h   | 17,100   | 24,000                   | 30,000        |            |
|  |                       |                             |                 | Min.—Max.   | kW   | 0.91—5.89                | 1.58—8.21     | 2.81—10.26 |
|  | Heating               | 47°FDB<br>(Outdoor temp.)   | Rated           | Btu/h   | 3,100—20,100                                   | 5,400—28,000             | 9,600—35,000  |            |
|  |                       |                             |                 | kW  | 6.33   | 7.91                     | 9.38          |            |
|  |                       |                             |                 | Btu/h   | 21,600   | 27,000                   | 32,000        |            |
|  |                       | Min.—Max.                   | kW              | 0.91—7.50   | 1.58—9.38                                      | 2.70—11.14               |               |            |
|  |                       |                             | Btu/h           | 3,100—25,600  | 5,400—32,000                                   | 9,200—38,000             |               |            |
|  |                       |                             | kW              | 4.54  | 5.30   | 6.21                     |               |            |
|  |                       | 17°FDB<br>(Outdoor temp.)*1 | Rated           | Btu/h   | 15,500   | 18,100                   | 21,200        |            |
|  |                       |                             |                 | kW  | 5.66   | 7.53                     | 9.05          |            |
|  |                       |                             |                 | Btu/h   | 19,300   | 25,700                   | 30,900        |            |
|  |                       | 5°FDB<br>(Outdoor temp.)*2  | Rated           | kW  | 4.92   | 6.80                     | 8.21          |            |
|  |                       |                             |                 | Btu/h   | 16,800   | 23,200                   | 28,000        |            |
| Input power                                  | Cooling               |                             | Rated           |   | 1.46   | 2.05                     | 2.88          |            |
|  |                       |                             |                 | Min.—Max.   | 0.17—2.14                                      | 0.44—2.89                | 0.46—3.67     |            |
|  | Heating               | 47°FDB<br>(Outdoor temp.)   | Rated           |   | 1.91   | 2.17                     | 2.51          |            |
|  |                       |                             |                 | Min.—Max.   | 0.18—2.75                                      | 0.49—3.03                | 0.68—3.81     |            |
|  |                       | 17°FDB<br>(Outdoor temp.)*1 | Rated           |   | 1.57   | 1.83                     | 2.11          |            |
|  |                       |                             |                 | Max.  | 2.44   | 3.29                     | 3.96          |            |
|  |                       | 5°FDB<br>(Outdoor temp.)*2  | Rated           |   | 2.32   | 3.40                     | 4.02          |            |
|  |                       |                             |                 |   |  |                          |               |            |
|  | Fan                   |                             |                 | HIGH  |  | 53                       | 84            | 139        |
|  |                       |                             |                 |   | MED  | 30                       | 44            | 79         |
|  |                       |                             |                 |   | LOW  | 22                       | 27            | 58         |
|  |                       |                             |                 |   | QUIET  | 15                       |               |            |
|  | Current               |                             | Cooling         | Rated   | A  | 6.5                      | 9.1           | 12.8       |
|  |                       |                             | Heating         |   |  | 8.5                      | 9.6           | 11.1       |
| EER2   |                       | Cooling                     |                 | Btu/hW  | 11.7   |                          | 10.4          |            |
| COP2   |                       | Heating                     |                 | kW/kW   | 3.32   | 3.64                     | 3.74          |            |
| SEER2  |                       | Cooling                     |                 | Btu/hW  | 18.6   | 18.5                     |               |            |
| HSPF2  |                       | Heating                     |                 |   | 10.0   |                          |               |            |
| Power factor                                 |                       | Cooling                     |                 | %   | 97.7   | 97.9                     | 97.8          |            |
|  |                       | Heating                     |                 |   | 98.3   |                          |               |            |
| Moisture removal                             |                       |                             |                 | pints/h (L/h)   | 3.4 (1.6)                                      | 5.1 (2.4)                | 6.3 (3.0)     |            |
| Maximum operating current*3                  |                       | Cooling                     |                 | A   | 11.8   | 15.8                     | 18.3          |            |
|  |                       | Heating                     |                 |   | 14.8   | 15.8                     | 18.3          |            |
| Fan  | Airflow rate          | Cooling                     | HIGH            | CFM (m³/h)  | 618 (1,050)                                    | 800 (1,360)              | 1,001 (1,700) |            |
|  |                       |                             | MED             |   | 494 (840)                                      | 636 (1,080)              | 800 (1,360)   |            |
|  |                       |                             | LOW             |   | 430 (730)                                      | 518 (880)                | 700 (1,190)   |            |
|  |                       |                             | QUIET           |   | 371 (630)                                      | 400 (680)                | 630 (1,070)   |            |
|  |                       | Heating                     | HIGH            |   | 618 (1,050)                                    | 800 (1,360)              | 1,001 (1,700) |            |
|  |                       |                             | MED             |   | 494 (840)                                      | 636 (1,080)              | 800 (1,360)   |            |
|  |                       |                             | LOW             |   | 430 (730)                                      | 518 (880)                | 700 (1,190)   |            |
|  |                       |                             | QUIET           |   | 371 (630)                                      | 400 (680)                | 630 (1,070)   |            |
|  | Type × Qty            |                             | Sirocco fan × 2 |   |  |                          |               |            |
|  | Motor output          |                             |                 |   | W  | 197                      | 375           |            |
|  | Static pressure range |                             |                 |   | inWG (Pa)                                      | 0.12 to 0.80 (30 to 200) |               |            |
| Sound pressure level*4                       | Cooling               | HIGH                        | dB (A)          | 31  | 35   | 38                       |               |            |
|  |                       | MED                         |                 | 28  | 30   | 34                       |               |            |
|  |                       | LOW                         |                 | 25  | 28   | 30                       |               |            |
|  |                       | QUIET                       |                 | 24  |  |                          | 29            |            |
|  | Heating               | HIGH                        |                 | 31  | 35   | 38                       |               |            |
|  |                       | MED                         |                 | 28  | 30   | 34                       |               |            |
|  |                       | LOW                         |                 | 25  | 28   | 30                       |               |            |
|  |                       | QUIET                       |                 | 24  |  |                          | 29            |            |
| Heat exchanger type                          |                       | Dimensions (H × W × D)      |                 | in (mm)   | 16-9/16 × 29-13/16 × 1-9/16 (420 × 758 × 39.9) |                          |               |            |
|  |                       | Fin pitch                   |                 | FPI   | 18   |                          |               |            |
|  |                       | Rows × Stages               |                 | 3 × 20  |  |                          |               |            |
|  |                       | Pipe type                   |                 | Copper tube   |  |                          |               |            |
|  |                       | Fin type                    |                 | Aluminum  |  |                          |               |            |
| Enclosure                                    |                       | Material                    |                 | Steel sheet   |  |                          |               |            |
|  |                       | Color                       |                 | —   |  |                          |               |            |
| Dimensions<br>(H × W × D)                    | Net                   |                             | in (mm)         | 11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700)         |  |                          |               |            |
|  | Gross                 |                             |                 | 15-3/4 × 48-3/4 × 34-7/16 (400 × 1,238 × 875)           |  |                          |               |            |
| Weight                                       | Net                   |                             | lb (kg)         | 90 (41)   | 93 (42)  |                          |               |            |
|  | Gross                 |                             |                 | 108 (49)  | 110 (50)                                       |                          |               |            |
| Connection pipe                              | Size                  | Liquid                      | in (mm)         | Ø1/4 (Ø6.35)  | Ø3/8 (Ø9.52)                                   |                          |               |            |
|  |                       | Gas                         |                 | Ø1/2 (Ø12.70)   | Ø5/8 (Ø15.88)                                  |                          |               |            |
|  |                       |                             |                 | Flare   |  |                          |               |            |
|  |                       |                             |                 | PVC   |  |                          |               |            |
| Drain hose                                   | Material              |                             | in (mm)         | Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (O.D.)           |  |                          |               |            |
|  | Tip diameter          |                             |                 |   |  |                          |               |            |
| Operation range                              |                       | Cooling                     | °F (°C)         | 64 to 90 (18 to 32)                                     |  |                          |               |            |
|  |                       |                             | %RH             | 80 or less  |  |                          |               |            |
|  |                       | Heating                     | °F (°C)         | 60 to 86 (16 to 30)                                     |  |                          |               |            |
| Remote controller                            |                       |                             |                 | Option: Wired, Wireless, Mobile app*5 (AIRSTAGE Mobile) |  |                          |               |            |



| Type   | Duct                |            |            |
|--|---------------------|------------|------------|
|  | Inverter, Heat pump |            |            |
| Model name   | ARUH18LUAS          | ARUH24LUAS | ARUH30LUAS |
| <b>NOTES:</b> <ul style="list-style-type: none"> <li>Specifications are based on the following conditions: <ul style="list-style-type: none"> <li>Cooling: Indoor temperature of 80°FDB/67°F WB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°F WB (35°CDB/23.9°CWB).</li> <li>Heating: Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°F WB (8.33°CDB/6.11°CWB).</li> <li>*1: Heating (17°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°F WB (-8.33°CDB/-9.44°CWB).</li> <li>*2: Heating (5°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°F WB (-15.0°CDB/-15.56°CWB).</li> <li>Test conditions are based on AHRI 210/240 2023. <ul style="list-style-type: none"> <li>Capacity test condition: Static pressure 0.58 inWG (145 Pa)</li> </ul> </li> <li>Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)</li> <li>Standard static pressure: 18-24 model: 0.18 inWG (45 Pa), 30 model: 0.23 inWG (57 Pa)</li> </ul> </li> <li>Protective function might work when using it outside the operation range.</li> <li>*3: Maximum current: <ul style="list-style-type: none"> <li>The maximum value when operated within the operation range.</li> <li>The total current of indoor unit and outdoor unit.</li> </ul> </li> <li>*4: Sound pressure level: <ul style="list-style-type: none"> <li>Measured values in manufacturer's anechoic chamber.</li> <li>Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li> </ul> </li> <li>*5: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.</li> </ul> |                     |            |            |

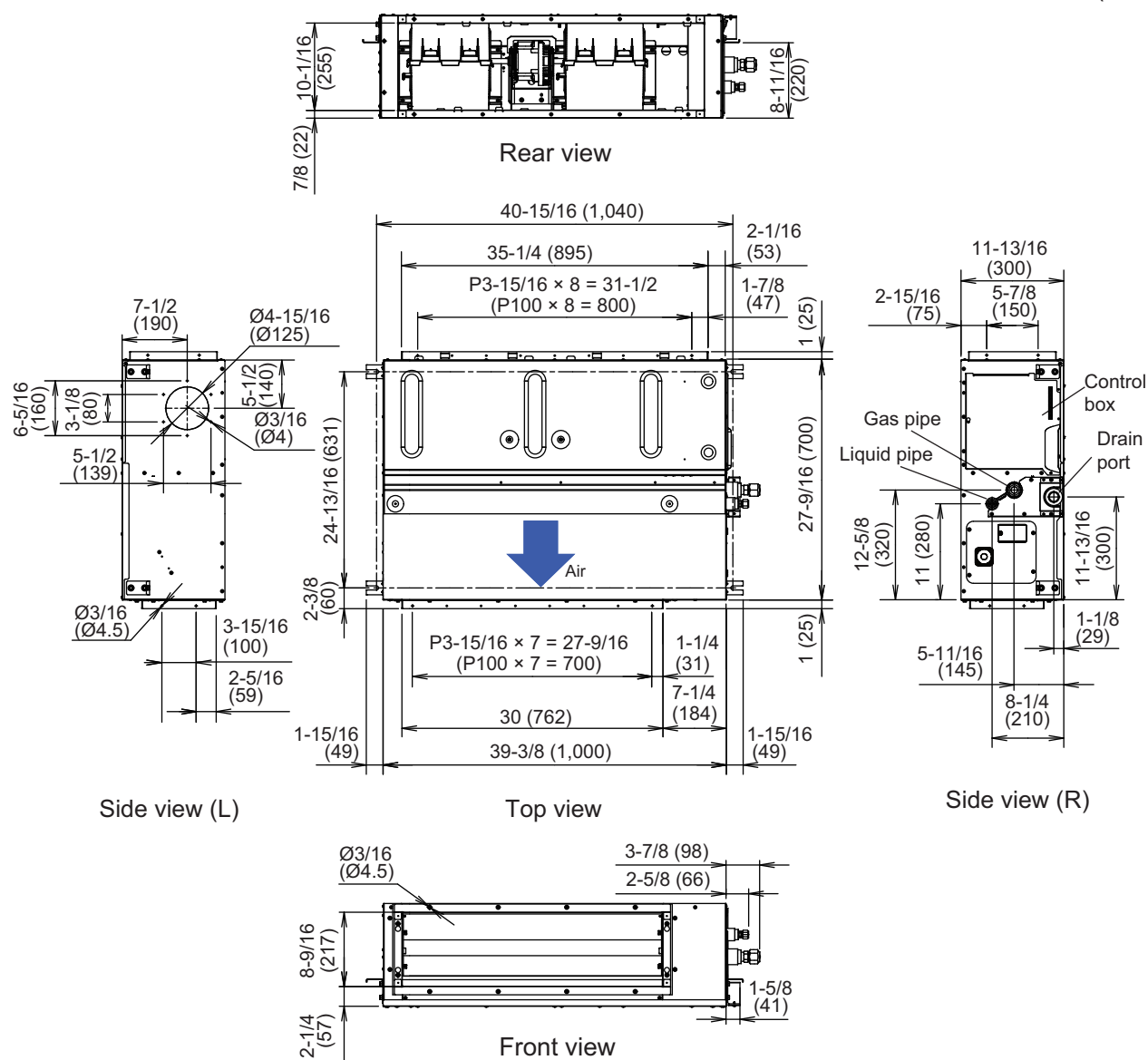
| Type   |              |                             |                 | Duct  |   |      |
|--|--------------|-----------------------------|-----------------|---|---|------|
|  |              |                             |                 | Inverter, Heat pump                                     |   |      |
| Model name                                   |              |                             |                 | ARUH36LUAS  |   |      |
| Power supply intake                          |              |                             |                 | Outdoor unit  |   |      |
| System power supply                          |              | Voltage                     | V               | 208/230   |   |      |
|  |              | Frequency                   | Hz              | 60  |   |      |
|  |              | Available voltage range     | V               | 187—253   |   |      |
| Indoor unit power supply (from outdoor unit) |              |                             | V               | 208/230   |   |      |
| Capacity                                     | Cooling      | Rated                       | kW              | 10.55   |   |      |
|  |              |                             | Btu/h           | 36,000  |   |      |
|  |              | Min.—Max.                   | kW              | 2.81—11.43  |   |      |
|  |              |                             | Btu/h           | 9,600—39,000  |   |      |
|  | Heating      | 47°FDB<br>(Outdoor temp.)   | Rated           | kW  | 11.14   |      |
|  |              |                             | Btu/h           | 38,000  |   |      |
|  |              | Min.—Max.                   | kW              | 2.7—12.6  |   |      |
|  |              |                             | Btu/h           | 9,200—43,000  |   |      |
|  |              | 17°FDB<br>(Outdoor temp.)*1 | Rated           | kW  | 7.56  |      |
|  |              |                             | Btu/h           | 25,800  |   |      |
|  |              |                             | Max.            | kW  | 10.11   |      |
|  |              |                             |                 | Btu/h   | 34,500  |      |
| 5°FDB<br>(Outdoor temp.)*2                   |              | Rated                       | kW              | 9.09  |   |      |
|  |              | Btu/h                       | 31,000          |   |   |      |
| Input power                                  | Cooling      | Rated                       | kW              | 3.75  |   |      |
|  |              | Min.—Max.                   |                 | 0.44—4.27   |   |      |
|  | Heating      | 47°FDB<br>(Outdoor temp.)   |                 | Rated   | 3.24  |      |
|  |              | 17°FDB<br>(Outdoor temp.)*1 |                 | Min.—Max.   | 0.65—4.12                                       |      |
|  |              |                             |                 | Rated   | 2.61  |      |
|  |              |                             |                 | Max.  | 4.30  |      |
|  |              | 5°FDB<br>(Outdoor temp.)*2  | Rated           | 4.37  |   |      |
|  | Fan          | HIGH                        | W               | 158   |   |      |
|  |              | MED                         |                 | 94  |   |      |
|  |              | LOW                         |                 | 59  |   |      |
|  |              | QUIET                       |                 | 40  |   |      |
|  | Current      |                             | Cooling         | Rated   | A   | 16.5 |
| Heating                                      |              |                             | A               |   | 14.2  |      |
| EER2   |              | Cooling                     | Btu/hW          | 9.60  |   |      |
| COP2   |              | Heating                     | kW/kW           | 3.44  |   |      |
| SEER2  |              | Cooling                     |                 | 18.0  |   |      |
| HSPF2  |              | Heating                     | Btu/hW          | 9.8   |   |      |
| Power factor                                 |              | Cooling                     | %               | 98.8  |   |      |
|  |              | Heating                     |                 | 99.2  |   |      |
| Moisture removal                             |              |                             | pints/h (L/h)   | 7.6 (3.6)   |   |      |
| Maximum operating current*3                  |              | Cooling                     | A               | 19.8  |   |      |
|  |              | Heating                     |                 | 19.8  |   |      |
| Fan  | Airflow rate | Cooling                     | HIGH            | CFM (m³/h)  | 1,207 (2,050)                                   |      |
|  |              |                             | MED             |   | 965 (1,640)                                     |      |
|  |              |                             | LOW             |   | 783 (1,330)                                     |      |
|  |              |                             | QUIET           |   | 630 (1,070)                                     |      |
|  |              | Heating                     | HIGH            |   | 1,089 (1,850)                                   |      |
|  |              |                             | MED             |   | 965 (1,640)                                     |      |
|  |              |                             | LOW             |   | 783 (1,330)                                     |      |
|  |              |                             | QUIET           |   | 630 (1,070)                                     |      |
|  | Type × Qty   |                             | Sirocco fan × 3 |   |   |      |
|  | Motor output |                             | W               | 375   |   |      |
| Static pressure range                        |              |                             | inWG (Pa)       | 0.12 to 0.80 (30 to 200)                                |   |      |
| Sound pressure level*4                       | Cooling      | HIGH                        | dB (A)          | 37  |   |      |
|  |              | MED                         |                 | 33  |   |      |
|  |              | LOW                         |                 | 30  |   |      |
|  |              | QUIET                       |                 | 26  |   |      |
|  | Heating      | HIGH                        |                 | 35  |   |      |
|  |              | MED                         |                 | 33  |   |      |
|  |              | LOW                         |                 | 30  |   |      |
|  |              | QUIET                       |                 | 26  |   |      |
| Heat exchanger type                          |              | Dimensions (H × W × D)      |                 | in (mm)   | 16-9/16 × 45-9/16 × 1-9/16 (420 × 1,158 × 39.9) |      |
|  |              | Fin pitch                   |                 | FPI   | 18  |      |
|  |              | Rows × Stages               |                 | 3 × 20  |   |      |
|  |              | Pipe type                   |                 | Copper tube   |   |      |
|  |              | Fin type                    |                 | Aluminum  |   |      |
| Enclosure                                    |              | Material                    |                 | Steel sheet   |   |      |
|  |              | Color                       |                 | —   |   |      |
| Dimensions<br>(H × W × D)                    |              | Net                         |                 | in (mm)   | 11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700) |      |
|  |              | Gross                       |                 |   | 15-3/4 × 64-1/2 × 34-7/16 (400 × 1,638 × 875)   |      |
| Weight                                       |              | Net                         |                 | lb (kg)   | 121 (55)  |      |
|  |              | Gross                       |                 |   | 141 (64)  |      |
| Connection pipe                              |              | Size                        | Liquid          | in (mm)   | Ø3/8 (Ø9.52)                                    |      |
|  |              |                             | Gas             |   | Ø5/8 (Ø15.88)                                   |      |
| Drain hose                                   |              | Method                      |                 | Flare   |   |      |
|  |              | Material                    |                 | PVC   |   |      |
| Operation range                              |              | Cooling                     | in (mm)         |   | Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (O.D.)   |      |
|  |              |                             | °F (°C)         |   | 64 to 90 (18 to 32)                             |      |
| Remote controller                            |              | Heating                     | %RH             |   | 80 or less                                      |      |
|  |              |                             | °F (°C)         |   | 60 to 86 (16 to 30)                             |      |
| Remote controller                            |              |                             |                 | Option: Wired, Wireless, Mobile app*5 (AIRSTAGE Mobile) |   |      |

| Type   | Duct                |
|--|---------------------|
|  | Inverter, Heat pump |
| Model name   | ARUH36LUAS          |
| <b>NOTES:</b> <ul style="list-style-type: none"> <li>Specifications are based on the following conditions: <ul style="list-style-type: none"> <li>Cooling: Indoor temperature of 80°FDB/67°F WB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°F WB (35°CDB/23.9°CWB).</li> <li>Heating: Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°F WB (8.33°CDB/6.11°CWB).</li> <li>*1: Heating (17°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°F WB (-8.33°CDB/-9.44°CWB).</li> <li>*2: Heating (5°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°F WB (-15.0°CDB/-15.56°CWB).</li> <li>Test conditions are based on AHRI 210/240 2023. <ul style="list-style-type: none"> <li>Capacity test condition: Static pressure 0.58 inWG (145 Pa)</li> </ul> </li> <li>Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)</li> <li>Standard static pressure: 0.23 inWG (57 Pa)</li> </ul> </li> <li>Protective function might work when using it outside the operation range.</li> <li>*3: Maximum current: <ul style="list-style-type: none"> <li>The maximum value when operated within the operation range.</li> <li>The total current of indoor unit and outdoor unit.</li> </ul> </li> <li>*4: Sound pressure level: <ul style="list-style-type: none"> <li>Measured values in manufacturer's anechoic chamber.</li> <li>Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li> </ul> </li> <li>*5: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.</li> </ul> |                     |

## 2. Dimensions

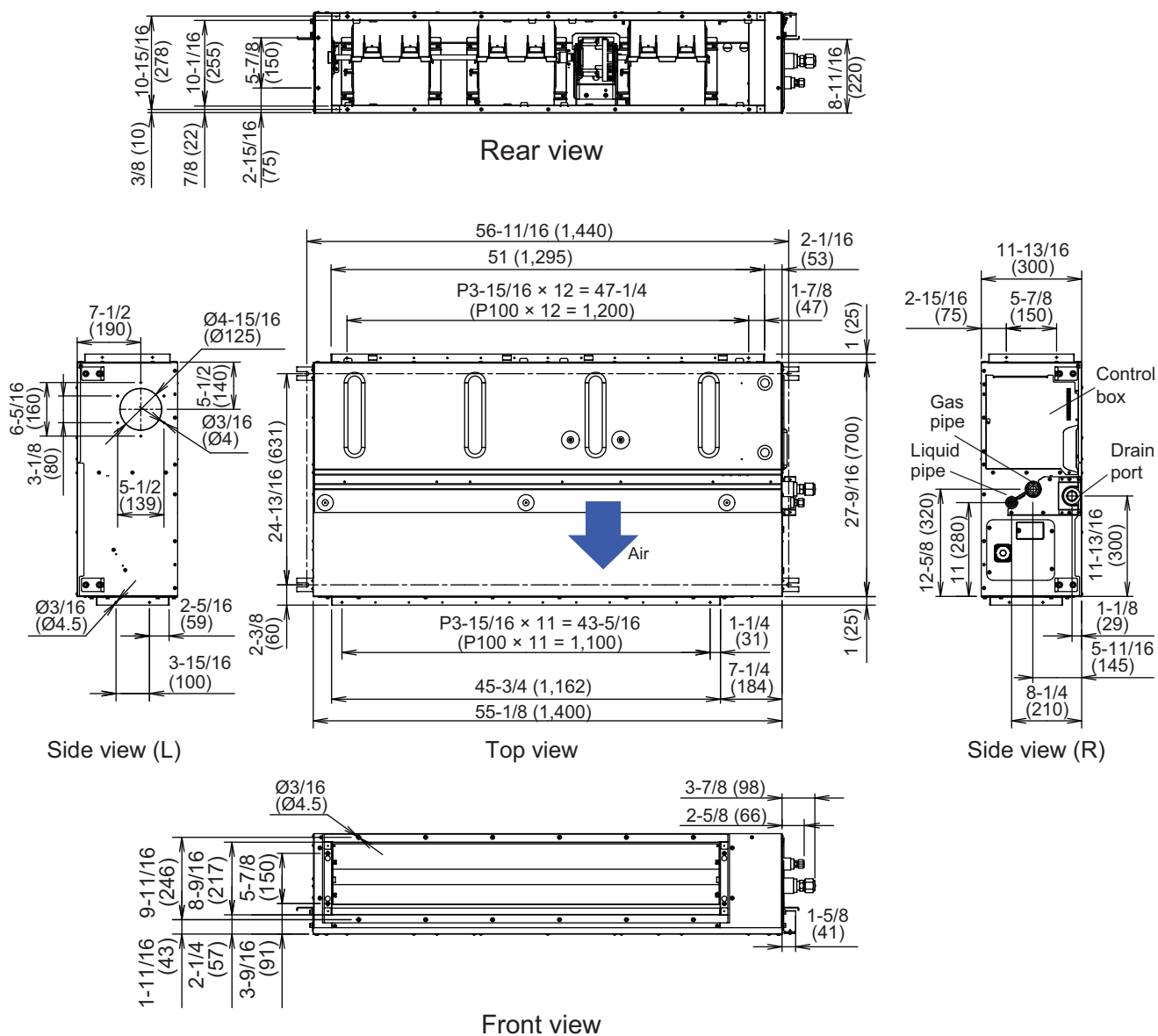
### 2-1. Models: ARUH18LUAS, ARUH24LUAS, and ARUH30LUAS

Unit: in (mm)



## 2-2. Model: ARUH36LUAS

Unit: in (mm)



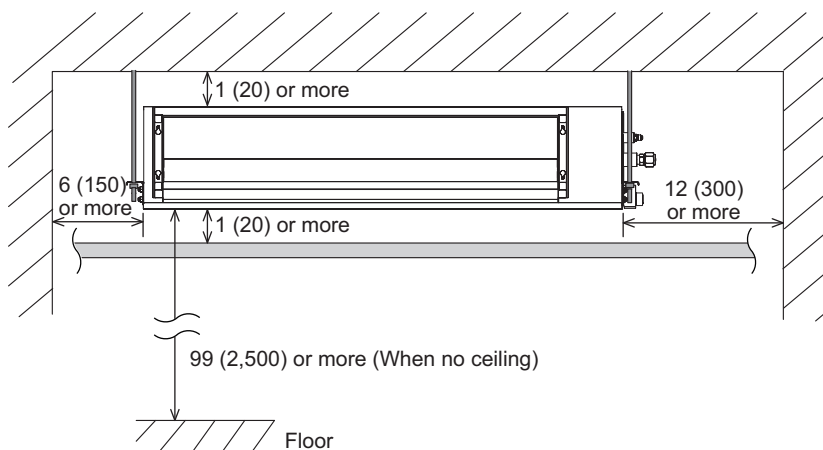
## 2-3. Installation space requirement

Provide sufficient installation space for product safety.

**NOTE:** The detailed component shape depends on the model.

### ■ Models: ARUH18LUAS, ARUH24LUAS, ARUH30LUAS, and ARUH36LUAS

Unit: in (mm)



## 2-4. Maintenance space requirement

Provide sufficient maintenance space for efficient maintenance.

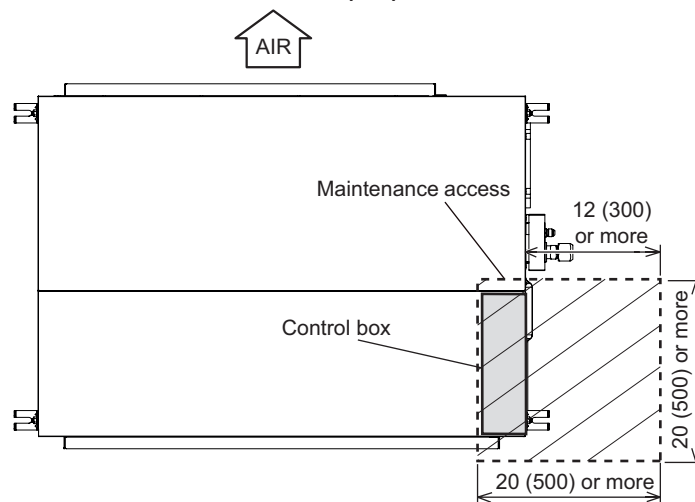
### NOTES:

- Do not place any wiring or illumination in the maintenance space, as they will impede service.
- The detailed component shape depends on the model.

### ■ Models: ARUH18LUAS, ARUH24LUAS, ARUH30LUAS, and ARUH36LUAS

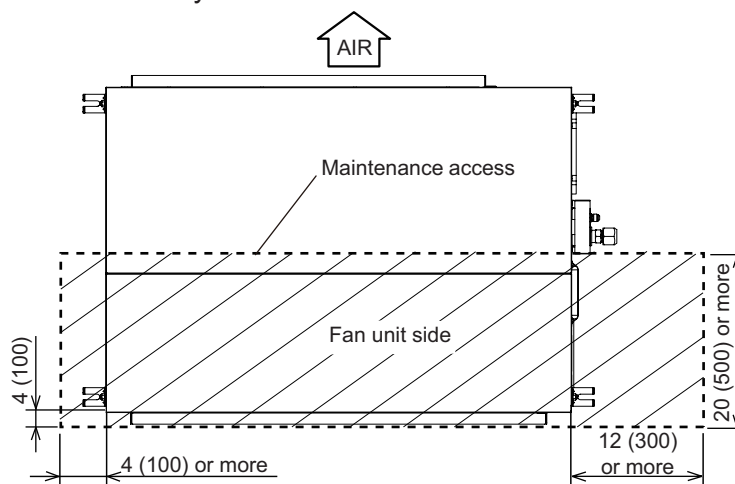
Unit: in (mm)

- Provide a maintenance access for maintenance purposes.



Bottom view

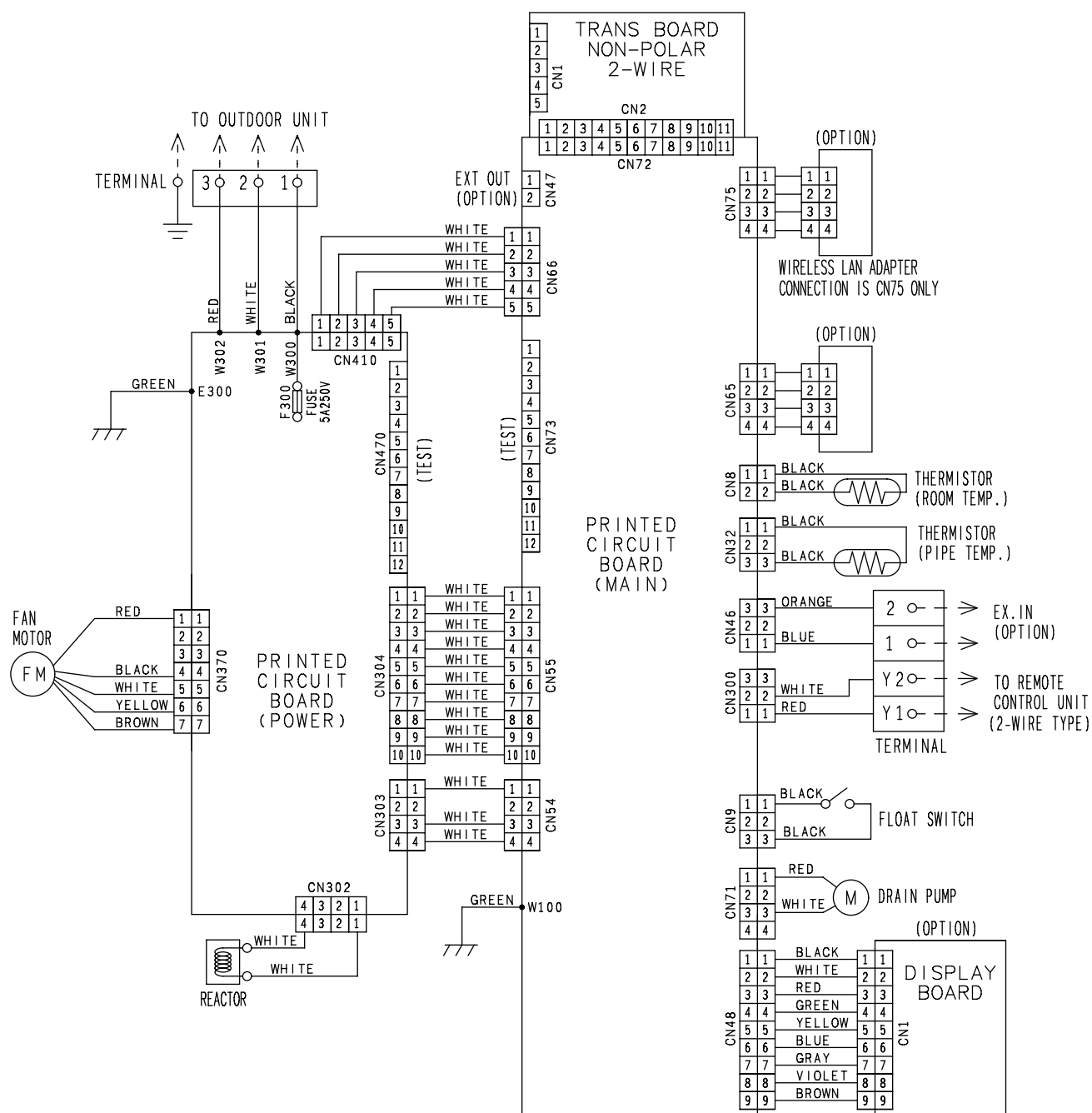
- The maintenance access necessary for fan units and filter maintenance.



Bottom view

### 3. Wiring diagrams

#### 3-1. Models: ARUH18LUAS and ARUH24LUAS







## 4. Capacity table

Capacity tables show each of following values calculated based on the outdoor temperature and the indoor temperature, under given Airflow Rate (AFR):

**For cooling capacity:** Total Capacity (TC), Sensible Heat Capacity (SHC), and Input Power (IP)

**For heating capacity:** Total Capacity (TC) and Input Power (IP)

### 4-1. Cooling capacity

#### ■ Model: ARUH18LUAS

| AFR                 |                    |        |      |       |        | CFM  |       |        |      |       |        |      |       | 618    |      |       |        |      |    |  |  |
|---------------------|--------------------|--------|------|-------|--------|------|-------|--------|------|-------|--------|------|-------|--------|------|-------|--------|------|----|--|--|
| Outdoor temperature | Indoor temperature |        |      |       |        |      |       |        |      |       |        |      |       |        |      |       |        |      |    |  |  |
|                     | °FDB               |        |      | 64    |        |      | 70    |        |      | 75    |        |      | 80    |        |      | 85    |        |      | 90 |  |  |
|                     | °FWB               |        |      | 54    |        |      | 60    |        |      | 63    |        |      | 67    |        |      | 71    |        |      | 73 |  |  |
|                     | °FDB               | TC     | SHC  | IP    | TC     | SHC  | IP    | TC     | SHC  | IP    | TC     | SHC  | IP    | TC     | SHC  | IP    | TC     | SHC  | IP |  |  |
|                     |                    | kBtu/h |      | kW    | kBtu/h |      | kW    | kBtu/h |      | kW    | kBtu/h |      | kW    | kBtu/h |      | kW    | kBtu/h |      | kW |  |  |
| -5                  | 15.50              | 12.70  | 0.43 | 17.26 | 12.78  | 0.44 | 17.85 | 13.89  | 0.44 | 19.62 | 15.05  | 0.45 | 20.79 | 14.99  | 0.45 | 21.97 | 15.97  | 0.45 |    |  |  |
| 5                   | 15.24              | 12.49  | 0.47 | 16.97 | 12.56  | 0.47 | 17.55 | 13.66  | 0.48 | 19.29 | 14.79  | 0.48 | 20.44 | 14.74  | 0.49 | 21.60 | 15.70  | 0.49 |    |  |  |
| 14                  | 15.00              | 12.29  | 0.50 | 16.71 | 12.37  | 0.51 | 17.28 | 13.44  | 0.51 | 18.99 | 14.57  | 0.52 | 20.13 | 14.51  | 0.52 | 21.27 | 15.45  | 0.53 |    |  |  |
| 32                  | 14.54              | 11.91  | 0.57 | 16.19 | 11.98  | 0.58 | 16.75 | 13.02  | 0.58 | 18.40 | 14.11  | 0.59 | 19.51 | 14.05  | 0.60 | 20.61 | 14.97  | 0.60 |    |  |  |
| 41                  | 14.30              | 11.72  | 0.57 | 15.93 | 11.79  | 0.58 | 16.48 | 12.81  | 0.58 | 18.11 | 13.88  | 0.59 | 19.19 | 13.83  | 0.60 | 20.28 | 14.73  | 0.60 |    |  |  |
| 50                  | 14.07              | 11.52  | 0.58 | 15.67 | 11.59  | 0.59 | 16.21 | 12.60  | 0.59 | 17.81 | 13.65  | 0.60 | 18.88 | 13.59  | 0.61 | 19.95 | 14.48  | 0.62 |    |  |  |
| 59                  | 13.84              | 11.31  | 0.62 | 15.42 | 11.38  | 0.63 | 15.94 | 12.37  | 0.64 | 17.52 | 13.40  | 0.65 | 18.57 | 13.35  | 0.65 | 19.62 | 14.22  | 0.66 |    |  |  |
| 67                  | 15.90              | 13.03  | 1.02 | 17.71 | 13.10  | 1.03 | 18.31 | 14.25  | 1.04 | 20.12 | 15.43  | 1.05 | 21.33 | 15.37  | 1.06 | 22.54 | 16.38  | 1.07 |    |  |  |
| 77                  | 15.16              | 12.39  | 1.14 | 16.89 | 12.47  | 1.16 | 17.46 | 13.55  | 1.16 | 19.19 | 14.68  | 1.18 | 20.34 | 14.62  | 1.19 | 21.50 | 15.58  | 1.20 |    |  |  |
| 87                  | 14.37              | 11.77  | 1.29 | 16.01 | 11.84  | 1.31 | 16.55 | 12.87  | 1.31 | 18.19 | 13.94  | 1.33 | 19.28 | 13.89  | 1.35 | 20.37 | 14.79  | 1.36 |    |  |  |
| 95                  | 13.51              | 11.07  | 1.41 | 15.05 | 11.14  | 1.43 | 15.56 | 12.11  | 1.44 | 17.10 | 13.12  | 1.46 | 18.13 | 13.07  | 1.47 | 19.16 | 13.92  | 1.49 |    |  |  |
| 104                 | 11.86              | 9.71   | 1.38 | 13.21 | 9.76   | 1.40 | 13.66 | 10.61  | 1.41 | 15.02 | 11.50  | 1.43 | 15.92 | 11.45  | 1.45 | 16.82 | 12.20  | 1.46 |    |  |  |
| 115                 | 9.96               | 8.83   | 1.37 | 11.09 | 8.89   | 1.39 | 11.47 | 9.66   | 1.40 | 12.60 | 10.47  | 1.42 | 13.36 | 10.42  | 1.43 | 14.12 | 11.10  | 1.45 |    |  |  |

| AFR                 |                    |      |      | m³/h |      |      |      |      |      |      |      | 1,050 |      |      |      |      |      |      |      |  |  |
|---------------------|--------------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|--|--|
| Outdoor temperature | Indoor temperature |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |  |  |
|                     | °CDB               |      |      | 17.8 |      |      | 21.1 |      |      | 23.9 |      |       | 26.7 |      |      | 29.4 |      |      | 32.2 |  |  |
|                     | °CWB               |      |      | 12.2 |      |      | 15.6 |      |      | 17.2 |      |       | 19.4 |      |      | 21.7 |      |      | 22.8 |  |  |
|                     | °CDB               | TC   | SHC  | IP   | TC   | SHC  | IP   | TC   | SHC  | IP   | TC   | SHC   | IP   | TC   | SHC  | IP   | TC   | SHC  | IP   |  |  |
|                     | kW                 |      |      | kW   |      |      | kW   |      |      | kW   |      |       | kW   |      |      | kW   |      |      |      |  |  |
|                     | -20.6              | 4.54 | 3.72 | 0.43 | 5.06 | 3.75 | 0.44 | 5.23 | 4.07 | 0.44 | 5.75 | 4.41  | 0.45 | 6.09 | 4.39 | 0.45 | 6.44 | 4.68 | 0.45 |  |  |
|                     | -15                | 4.47 | 3.66 | 0.47 | 4.97 | 3.68 | 0.47 | 5.14 | 4.00 | 0.48 | 5.65 | 4.34  | 0.48 | 5.99 | 4.32 | 0.49 | 6.33 | 4.60 | 0.49 |  |  |
|                     | -10                | 4.40 | 3.60 | 0.50 | 4.90 | 3.62 | 0.51 | 5.07 | 3.94 | 0.51 | 5.57 | 4.27  | 0.52 | 5.90 | 4.25 | 0.52 | 6.23 | 4.53 | 0.53 |  |  |
|                     | 0                  | 4.26 | 3.49 | 0.57 | 4.75 | 3.51 | 0.58 | 4.91 | 3.82 | 0.58 | 5.39 | 4.13  | 0.59 | 5.72 | 4.12 | 0.60 | 6.04 | 4.39 | 0.60 |  |  |
|                     | 5                  | 4.19 | 3.43 | 0.57 | 4.67 | 3.45 | 0.58 | 4.83 | 3.76 | 0.58 | 5.31 | 4.07  | 0.59 | 5.63 | 4.05 | 0.60 | 5.94 | 4.32 | 0.60 |  |  |
| 10                  | 4.12               | 3.38 | 0.58 | 4.59 | 3.40 | 0.59 | 4.75 | 3.69 | 0.59 | 5.22 | 4.00 | 0.60  | 5.53 | 3.98 | 0.61 | 5.85 | 4.24 | 0.62 |      |  |  |
| 15                  | 4.06               | 3.32 | 0.62 | 4.52 | 3.33 | 0.63 | 4.67 | 3.63 | 0.64 | 5.13 | 3.93 | 0.65  | 5.44 | 3.91 | 0.65 | 5.75 | 4.17 | 0.66 |      |  |  |
| 19.4                | 4.66               | 3.82 | 1.02 | 5.19 | 3.84 | 1.03 | 5.37 | 4.18 | 1.04 | 5.90 | 4.52 | 1.05  | 6.25 | 4.51 | 1.06 | 6.61 | 4.80 | 1.07 |      |  |  |
| 25                  | 4.44               | 3.63 | 1.14 | 4.95 | 3.65 | 1.16 | 5.12 | 3.97 | 1.16 | 5.62 | 4.30 | 1.18  | 5.96 | 4.29 | 1.19 | 6.30 | 4.57 | 1.20 |      |  |  |
| 30                  | 4.21               | 3.45 | 1.29 | 4.69 | 3.47 | 1.31 | 4.85 | 3.77 | 1.31 | 5.33 | 4.09 | 1.33  | 5.65 | 4.07 | 1.35 | 5.97 | 4.34 | 1.36 |      |  |  |
| 35                  | 3.96               | 3.25 | 1.41 | 4.41 | 3.26 | 1.43 | 4.56 | 3.55 | 1.44 | 5.02 | 3.85 | 1.46  | 5.31 | 3.83 | 1.47 | 5.61 | 4.08 | 1.49 |      |  |  |
| 40                  | 3.48               | 2.84 | 1.38 | 3.87 | 2.86 | 1.40 | 4.00 | 3.11 | 1.41 | 4.40 | 3.37 | 1.43  | 4.67 | 3.36 | 1.45 | 4.93 | 3.58 | 1.46 |      |  |  |
| 46.1                | 2.92               | 2.59 | 1.37 | 3.25 | 2.60 | 1.39 | 3.36 | 2.83 | 1.40 | 3.69 | 3.07 | 1.42  | 3.92 | 3.06 | 1.43 | 4.14 | 3.25 | 1.45 |      |  |  |

# Model: ARUH24LUAS

| AFR                 |                    |       |      |        |       | CFM  |       |       |      |        |       | 800  |       |       |      |        |       |      |    |  |  |
|---------------------|--------------------|-------|------|--------|-------|------|-------|-------|------|--------|-------|------|-------|-------|------|--------|-------|------|----|--|--|
| Outdoor temperature | Indoor temperature |       |      |        |       |      |       |       |      |        |       |      |       |       |      |        |       |      |    |  |  |
|                     | °FDB               |       |      | 64     |       |      | 70    |       |      | 75     |       |      | 80    |       |      | 85     |       |      | 90 |  |  |
|                     | °FWB               |       |      | 54     |       |      | 60    |       |      | 63     |       |      | 67    |       |      | 71     |       |      | 73 |  |  |
|                     | °FDB               |       |      | TC     |       |      | SHC   |       |      | IP     |       |      | TC    |       |      | SHC    |       |      | IP |  |  |
|                     |                    |       |      | kBTu/h |       |      | kW    |       |      | kBTu/h |       |      | kW    |       |      | kBTu/h |       |      | kW |  |  |
| -5                  | 19.15              | 14.76 | 1.66 | 21.35  | 14.83 | 1.68 | 22.81 | 16.15 | 1.69 | 24.26  | 17.47 | 1.71 | 25.71 | 17.40 | 1.73 | 27.17  | 18.53 | 1.74 |    |  |  |
| 5                   | 19.11              | 14.72 | 1.65 | 21.31  | 14.79 | 1.67 | 22.76 | 16.11 | 1.69 | 24.21  | 17.43 | 1.70 | 25.65 | 17.36 | 1.72 | 27.12  | 18.48 | 1.74 |    |  |  |
| 14                  | 19.09              | 14.67 | 1.63 | 21.27  | 14.77 | 1.66 | 22.71 | 16.09 | 1.68 | 24.17  | 17.39 | 1.70 | 25.63 | 17.32 | 1.71 | 27.07  | 18.44 | 1.73 |    |  |  |
| 32                  | 19.01              | 14.62 | 1.64 | 21.17  | 14.69 | 1.66 | 22.63 | 16.00 | 1.67 | 24.09  | 17.31 | 1.69 | 25.54 | 17.24 | 1.71 | 26.97  | 18.36 | 1.73 |    |  |  |
| 41                  | 18.99              | 14.57 | 1.63 | 21.18  | 14.67 | 1.65 | 22.60 | 15.96 | 1.68 | 24.04  | 17.28 | 1.69 | 25.47 | 17.21 | 1.71 | 26.93  | 18.33 | 1.73 |    |  |  |
| 50                  | 18.96              | 14.54 | 1.62 | 21.10  | 14.61 | 1.65 | 22.55 | 15.92 | 1.67 | 24.00  | 17.24 | 1.68 | 25.43 | 17.15 | 1.69 | 26.87  | 18.27 | 1.71 |    |  |  |
| 59                  | 19.69              | 14.79 | 1.42 | 21.95  | 14.89 | 1.43 | 23.44 | 16.20 | 1.45 | 24.94  | 17.52 | 1.47 | 26.43 | 17.45 | 1.48 | 27.93  | 18.60 | 1.50 |    |  |  |
| 67                  | 21.59              | 15.80 | 1.49 | 24.06  | 15.89 | 1.51 | 25.69 | 17.31 | 1.52 | 27.35  | 18.73 | 1.54 | 28.99 | 18.66 | 1.55 | 30.61  | 19.87 | 1.57 |    |  |  |
| 77                  | 20.92              | 15.51 | 1.63 | 23.29  | 15.60 | 1.65 | 24.87 | 17.01 | 1.67 | 26.47  | 18.38 | 1.69 | 28.04 | 18.32 | 1.70 | 29.63  | 19.50 | 1.73 |    |  |  |
| 87                  | 20.28              | 15.27 | 1.76 | 22.61  | 15.34 | 1.79 | 24.14 | 16.72 | 1.80 | 25.69  | 18.08 | 1.83 | 27.22 | 18.01 | 1.84 | 28.77  | 19.18 | 1.86 |    |  |  |
| 95                  | 18.96              | 14.66 | 1.98 | 21.13  | 14.75 | 2.01 | 22.53 | 16.07 | 2.03 | 24.00  | 17.39 | 2.05 | 25.41 | 17.30 | 2.07 | 26.84  | 18.44 | 2.09 |    |  |  |
| 104                 | 17.63              | 14.11 | 2.20 | 19.65  | 14.19 | 2.23 | 20.98 | 15.44 | 2.25 | 22.30  | 16.70 | 2.27 | 23.65 | 16.64 | 2.30 | 24.99  | 17.74 | 2.33 |    |  |  |
| 115                 | 15.66              | 13.38 | 2.44 | 17.43  | 13.47 | 2.48 | 18.64 | 14.66 | 2.49 | 19.81  | 15.86 | 2.53 | 21.01 | 15.80 | 2.54 | 22.21  | 16.82 | 2.58 |    |  |  |

| AFR                 |       |                    |      |      |      | m³/h |      |      |      |      |      |      |      | 1,360 |      |      |      |      |      |
|---------------------|-------|--------------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|
|                     |       | Indoor temperature |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |
|                     | °CDB  | 17.8               |      |      | 21.1 |      |      | 23.9 |      |      | 26.7 |      |      | 29.4  |      |      | 32.2 |      |      |
|                     | °CWB  | 12.2               |      |      | 15.6 |      |      | 17.2 |      |      | 19.4 |      |      | 21.7  |      |      | 22.8 |      |      |
| Outdoor temperature | °CDB  | TC                 | SHC  | IP   | TC   | SHC  | IP   | TC   | SHC  | IP   | TC   | SHC  | IP   | TC    | SHC  | IP   | TC   | SHC  | IP   |
|                     |       | kW                 |      |      | kW   |      |      | kW   |      |      | kW   |      |      | kW    |      |      | kW   |      |      |
|                     | -20.6 | 5.61               | 4.32 | 1.66 | 6.26 | 4.35 | 1.68 | 6.68 | 4.73 | 1.69 | 7.11 | 5.12 | 1.71 | 7.53  | 5.10 | 1.73 | 7.96 | 5.43 | 1.74 |
|                     | -15   | 5.60               | 4.31 | 1.65 | 6.25 | 4.33 | 1.67 | 6.67 | 4.72 | 1.69 | 7.10 | 5.11 | 1.70 | 7.52  | 5.09 | 1.72 | 7.95 | 5.42 | 1.74 |
|                     | -10   | 5.60               | 4.30 | 1.63 | 6.23 | 4.33 | 1.66 | 6.66 | 4.72 | 1.68 | 7.08 | 5.10 | 1.70 | 7.51  | 5.08 | 1.71 | 7.93 | 5.41 | 1.73 |
|                     | 0     | 5.57               | 4.29 | 1.64 | 6.20 | 4.31 | 1.66 | 6.63 | 4.69 | 1.67 | 7.06 | 5.07 | 1.69 | 7.49  | 5.05 | 1.71 | 7.91 | 5.38 | 1.73 |
|                     | 5     | 5.57               | 4.27 | 1.63 | 6.21 | 4.30 | 1.65 | 6.62 | 4.68 | 1.68 | 7.05 | 5.06 | 1.69 | 7.47  | 5.04 | 1.71 | 7.89 | 5.37 | 1.73 |
|                     | 10    | 5.56               | 4.26 | 1.62 | 6.18 | 4.28 | 1.65 | 6.61 | 4.67 | 1.67 | 7.03 | 5.05 | 1.68 | 7.45  | 5.03 | 1.69 | 7.88 | 5.36 | 1.71 |
|                     | 15    | 5.77               | 4.34 | 1.42 | 6.43 | 4.36 | 1.43 | 6.87 | 4.75 | 1.45 | 7.31 | 5.13 | 1.47 | 7.75  | 5.11 | 1.48 | 8.19 | 5.45 | 1.50 |
|                     | 19.4  | 6.33               | 4.63 | 1.49 | 7.05 | 4.66 | 1.51 | 7.53 | 5.07 | 1.52 | 8.02 | 5.49 | 1.54 | 8.50  | 5.47 | 1.55 | 8.97 | 5.82 | 1.57 |
|                     | 25    | 6.13               | 4.55 | 1.63 | 6.83 | 4.57 | 1.65 | 7.29 | 4.98 | 1.67 | 7.76 | 5.39 | 1.69 | 8.22  | 5.37 | 1.70 | 8.68 | 5.72 | 1.73 |
|                     | 30    | 5.94               | 4.48 | 1.76 | 6.63 | 4.50 | 1.79 | 7.07 | 4.90 | 1.80 | 7.53 | 5.30 | 1.83 | 7.98  | 5.28 | 1.84 | 8.43 | 5.62 | 1.86 |
| 35                  | 5.56  | 4.30               | 1.98 | 6.19 | 4.32 | 2.01 | 6.60 | 4.71 | 2.03 | 7.03 | 5.10 | 2.05 | 7.45 | 5.07  | 2.07 | 7.87 | 5.41 | 2.09 |      |
| 40                  | 5.17  | 4.13               | 2.20 | 5.76 | 4.16 | 2.23 | 6.15 | 4.53 | 2.25 | 6.54 | 4.89 | 2.27 | 6.93 | 4.88  | 2.30 | 7.32 | 5.20 | 2.33 |      |
| 46.1                | 4.59  | 3.92               | 2.44 | 5.11 | 3.95 | 2.48 | 5.46 | 4.30 | 2.49 | 5.81 | 4.65 | 2.53 | 6.16 | 4.63  | 2.54 | 6.51 | 4.93 | 2.58 |      |

# Model: ARUH30LUAS

|     |     |       |
|-----|-----|-------|
| AFR | CFM | 1,001 |
|-----|-----|-------|

| Outdoor temperature | Indoor temperature |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |
|---------------------|--------------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
|                     | 64                 |       |      | 70    |       |      | 75    |       |      | 80    |       |      | 85    |       |      | 90    |       |      |
|                     | °FDB               |       |      | °FWB  |       |      | 63    |       |      | 67    |       |      | 71    |       |      | 73    |       |      |
|                     | °FDB               |       |      | °FWB  |       |      | °FDB  |       |      | °FWB  |       |      | °FDB  |       |      | °FWB  |       |      |
|                     | TC                 | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   |
| -5                  | 25.53              | 20.31 | 2.02 | 28.42 | 20.44 | 2.01 | 30.35 | 22.25 | 1.97 | 32.29 | 24.06 | 1.95 | 34.24 | 23.96 | 1.97 | 36.19 | 25.53 | 1.99 |
| 5                   | 25.38              | 20.25 | 1.90 | 28.26 | 20.38 | 1.91 | 30.18 | 22.18 | 1.95 | 32.10 | 23.98 | 1.96 | 34.04 | 23.89 | 1.98 | 35.98 | 25.45 | 2.00 |
| 14                  | 25.25              | 20.15 | 1.90 | 28.08 | 20.26 | 1.93 | 30.03 | 22.09 | 1.95 | 31.93 | 23.92 | 1.97 | 33.82 | 23.78 | 1.99 | 35.79 | 25.33 | 2.01 |
| 32                  | 24.98              | 20.07 | 1.92 | 27.82 | 20.17 | 1.96 | 29.71 | 21.99 | 1.98 | 31.60 | 23.78 | 1.99 | 33.49 | 23.68 | 2.02 | 35.38 | 25.23 | 2.03 |
| 41                  | 24.81              | 20.03 | 1.92 | 27.67 | 20.13 | 1.95 | 29.53 | 21.92 | 1.98 | 31.43 | 23.72 | 2.00 | 33.30 | 23.61 | 2.01 | 35.17 | 25.16 | 2.04 |
| 50                  | 24.71              | 19.96 | 1.94 | 27.50 | 20.09 | 1.97 | 29.40 | 21.89 | 1.98 | 31.27 | 23.65 | 2.01 | 33.13 | 23.58 | 2.03 | 35.00 | 25.11 | 2.05 |
| 59                  | 25.22              | 20.22 | 1.81 | 28.07 | 20.39 | 1.85 | 30.00 | 22.20 | 1.86 | 31.89 | 24.00 | 1.88 | 33.81 | 23.90 | 1.90 | 35.74 | 25.46 | 1.92 |
| 67                  | 27.05              | 20.80 | 2.08 | 30.15 | 20.93 | 2.11 | 32.20 | 22.76 | 2.14 | 34.28 | 24.63 | 2.16 | 36.33 | 24.53 | 2.17 | 38.38 | 26.13 | 2.20 |
| 77                  | 26.05              | 20.36 | 2.32 | 29.03 | 20.48 | 2.34 | 31.00 | 22.31 | 2.37 | 32.98 | 24.13 | 2.40 | 34.95 | 24.04 | 2.42 | 36.96 | 25.60 | 2.44 |
| 87                  | 25.14              | 20.01 | 2.52 | 28.01 | 20.14 | 2.57 | 29.91 | 21.92 | 2.59 | 31.81 | 23.69 | 2.62 | 33.73 | 23.63 | 2.65 | 35.66 | 25.16 | 2.66 |
| 95                  | 23.71              | 19.38 | 2.78 | 26.39 | 19.48 | 2.83 | 28.21 | 21.21 | 2.85 | 30.00 | 22.95 | 2.88 | 31.79 | 22.85 | 2.91 | 33.59 | 24.35 | 2.95 |
| 104                 | 22.25              | 18.71 | 3.04 | 24.78 | 18.87 | 3.06 | 26.46 | 20.49 | 3.10 | 28.18 | 22.20 | 3.14 | 29.84 | 22.08 | 3.17 | 31.54 | 23.56 | 3.20 |
| 115                 | 20.56              | 17.97 | 3.34 | 22.86 | 18.10 | 3.39 | 24.41 | 19.69 | 3.42 | 25.97 | 21.29 | 3.47 | 27.55 | 21.20 | 3.50 | 29.08 | 22.58 | 3.53 |

|     |                   |       |
|-----|-------------------|-------|
| AFR | m <sup>3</sup> /h | 1,700 |
|-----|-------------------|-------|

| Outdoor temperature | Indoor temperature |      |      |      |      |      |      |      |      |       |      |      |       |      |      |       |      |      |
|---------------------|--------------------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|-------|------|------|
|                     | 17.8               |      |      | 21.1 |      |      | 23.9 |      |      | 26.7  |      |      | 29.4  |      |      | 32.2  |      |      |
|                     | °CDB               |      |      | °CWB |      |      | °CDB |      |      | °CWB  |      |      | °CDB  |      |      | °CWB  |      |      |
|                     | °CDB               |      |      | °CWB |      |      | °CDB |      |      | °CWB  |      |      | °CDB  |      |      | °CWB  |      |      |
|                     | TC                 | SHC  | IP   | TC   | SHC  | IP   | TC   | SHC  | IP   | TC    | SHC  | IP   | TC    | SHC  | IP   | TC    | SHC  | IP   |
| -20.6               | 7.48               | 5.95 | 2.02 | 8.33 | 5.99 | 2.01 | 8.90 | 6.52 | 1.97 | 9.46  | 7.05 | 1.95 | 10.03 | 7.02 | 1.97 | 10.61 | 7.48 | 1.99 |
| -15                 | 7.44               | 5.93 | 1.90 | 8.28 | 5.97 | 1.91 | 8.84 | 6.50 | 1.95 | 9.41  | 7.03 | 1.96 | 9.98  | 7.00 | 1.98 | 10.54 | 7.46 | 2.00 |
| -10                 | 7.40               | 5.91 | 1.90 | 8.23 | 5.94 | 1.93 | 8.80 | 6.47 | 1.95 | 9.36  | 7.01 | 1.97 | 9.91  | 6.97 | 1.99 | 10.49 | 7.42 | 2.01 |
| 0                   | 7.32               | 5.88 | 1.92 | 8.15 | 5.91 | 1.96 | 8.71 | 6.45 | 1.98 | 9.26  | 6.97 | 1.99 | 9.82  | 6.94 | 2.02 | 10.37 | 7.40 | 2.03 |
| 5                   | 7.27               | 5.87 | 1.92 | 8.11 | 5.90 | 1.95 | 8.66 | 6.43 | 1.98 | 9.21  | 6.95 | 2.00 | 9.76  | 6.92 | 2.01 | 10.31 | 7.37 | 2.04 |
| 10                  | 7.24               | 5.85 | 1.94 | 8.06 | 5.89 | 1.97 | 8.62 | 6.41 | 1.98 | 9.16  | 6.93 | 2.01 | 9.71  | 6.91 | 2.03 | 10.26 | 7.36 | 2.05 |
| 15                  | 7.39               | 5.93 | 1.81 | 8.23 | 5.98 | 1.85 | 8.79 | 6.51 | 1.86 | 9.35  | 7.04 | 1.88 | 9.91  | 7.01 | 1.90 | 10.47 | 7.46 | 1.92 |
| 19.4                | 7.93               | 6.09 | 2.08 | 8.84 | 6.13 | 2.11 | 9.44 | 6.67 | 2.14 | 10.05 | 7.22 | 2.16 | 10.65 | 7.19 | 2.17 | 11.25 | 7.66 | 2.20 |
| 25                  | 7.64               | 5.97 | 2.32 | 8.51 | 6.00 | 2.34 | 9.09 | 6.54 | 2.37 | 9.67  | 7.07 | 2.40 | 10.24 | 7.05 | 2.42 | 10.83 | 7.50 | 2.44 |
| 30                  | 7.37               | 5.86 | 2.52 | 8.21 | 5.90 | 2.57 | 8.77 | 6.42 | 2.59 | 9.32  | 6.94 | 2.62 | 9.89  | 6.92 | 2.65 | 10.45 | 7.38 | 2.66 |
| 35                  | 6.95               | 5.68 | 2.78 | 7.74 | 5.71 | 2.83 | 8.27 | 6.22 | 2.85 | 8.79  | 6.73 | 2.88 | 9.32  | 6.70 | 2.91 | 9.84  | 7.14 | 2.95 |
| 40                  | 6.52               | 5.48 | 3.04 | 7.26 | 5.53 | 3.06 | 7.75 | 6.01 | 3.10 | 8.26  | 6.51 | 3.14 | 8.75  | 6.47 | 3.17 | 9.24  | 6.90 | 3.20 |
| 46.1                | 6.03               | 5.27 | 3.34 | 6.70 | 5.30 | 3.39 | 7.15 | 5.77 | 3.42 | 7.61  | 6.24 | 3.47 | 8.07  | 6.21 | 3.50 | 8.52  | 6.62 | 3.53 |

# Model: ARUH36LUAS

|     |     |       |
|-----|-----|-------|
| AFR | CFM | 1,207 |
|-----|-----|-------|

| Outdoor temperature | Indoor temperature |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |
|---------------------|--------------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
|                     | 64                 |       |      | 70    |       |      | 75    |       |      | 80    |       |      | 85    |       |      | 90    |       |      |
|                     | °FDB               |       |      | °FWB  |       |      | 63    |       |      | 67    |       |      | 71    |       |      | 73    |       |      |
|                     | °FDB               |       |      | °FWB  |       |      | °FDB  |       |      | °FWB  |       |      | °FDB  |       |      | °FWB  |       |      |
|                     | TC                 | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   | TC    | SHC   | IP   |
| -5                  | 31.45              | 27.14 | 1.80 | 35.06 | 27.26 | 1.82 | 34.96 | 25.99 | 2.36 | 37.19 | 28.11 | 2.39 | 39.40 | 28.00 | 2.41 | 41.65 | 29.82 | 2.43 |
| 5                   | 29.18              | 23.67 | 2.33 | 32.54 | 23.79 | 2.35 | 34.76 | 25.91 | 2.37 | 36.98 | 28.03 | 2.40 | 39.18 | 27.92 | 2.42 | 41.41 | 29.72 | 2.44 |
| 14                  | 29.06              | 23.58 | 2.31 | 32.37 | 23.73 | 2.35 | 34.56 | 25.86 | 2.38 | 36.78 | 27.95 | 2.41 | 39.01 | 27.83 | 2.43 | 41.20 | 29.64 | 2.44 |
| 32                  | 28.73              | 23.47 | 2.35 | 31.99 | 23.58 | 2.38 | 34.20 | 25.69 | 2.40 | 36.40 | 27.79 | 2.43 | 38.60 | 27.68 | 2.46 | 40.77 | 29.47 | 2.49 |
| 41                  | 28.60              | 23.38 | 2.36 | 31.90 | 23.53 | 2.39 | 34.03 | 25.60 | 2.42 | 36.21 | 27.71 | 2.44 | 38.36 | 27.60 | 2.47 | 40.56 | 29.41 | 2.50 |
| 50                  | 28.46              | 23.31 | 2.36 | 31.67 | 23.42 | 2.40 | 33.84 | 25.53 | 2.42 | 36.02 | 27.63 | 2.45 | 38.17 | 27.49 | 2.46 | 40.32 | 29.30 | 2.49 |
| 59                  | 28.47              | 23.39 | 2.34 | 31.73 | 23.53 | 2.37 | 33.90 | 25.61 | 2.40 | 36.06 | 27.70 | 2.42 | 38.22 | 27.59 | 2.45 | 40.38 | 29.40 | 2.48 |
| 67                  | 32.88              | 25.12 | 2.81 | 36.63 | 25.27 | 2.85 | 39.12 | 27.53 | 2.87 | 41.64 | 29.79 | 2.90 | 44.15 | 29.68 | 2.93 | 46.61 | 31.60 | 2.95 |
| 77                  | 31.52              | 24.57 | 3.09 | 35.09 | 24.71 | 3.13 | 37.47 | 26.93 | 3.16 | 39.89 | 29.11 | 3.19 | 42.24 | 29.00 | 3.22 | 44.64 | 30.88 | 3.26 |
| 87                  | 30.25              | 24.08 | 3.33 | 33.72 | 24.19 | 3.38 | 36.00 | 26.37 | 3.41 | 38.32 | 28.51 | 3.46 | 40.59 | 28.40 | 3.48 | 42.91 | 30.26 | 3.52 |
| 95                  | 28.45              | 23.17 | 3.62 | 31.71 | 23.31 | 3.67 | 33.81 | 25.40 | 3.72 | 36.00 | 27.49 | 3.75 | 38.14 | 27.35 | 3.79 | 40.29 | 29.16 | 3.83 |
| 104                 | 26.62              | 22.36 | 3.91 | 29.67 | 22.50 | 3.97 | 31.67 | 24.48 | 4.01 | 33.68 | 26.47 | 4.04 | 35.71 | 26.38 | 4.08 | 37.74 | 28.12 | 4.13 |
| 115                 | 22.12              | 20.69 | 3.55 | 24.62 | 20.82 | 3.60 | 26.32 | 22.67 | 3.62 | 27.97 | 24.51 | 3.67 | 29.67 | 24.43 | 3.69 | 31.37 | 26.00 | 3.74 |

|     |                   |       |
|-----|-------------------|-------|
| AFR | m <sup>3</sup> /h | 2,050 |
|-----|-------------------|-------|

| Outdoor temperature | Indoor temperature |      |      |       |      |      |       |      |      |       |      |      |       |      |      |       |      |      |
|---------------------|--------------------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
|                     | 17.8               |      |      | 21.1  |      |      | 23.9  |      |      | 26.7  |      |      | 29.4  |      |      | 32.2  |      |      |
|                     | °CDB               |      |      | °CWB  |      |      | °CDB  |      |      | °CWB  |      |      | °CDB  |      |      | °CWB  |      |      |
|                     | °CDB               |      |      | °CWB  |      |      | °CDB  |      |      | °CWB  |      |      | °CDB  |      |      | °CWB  |      |      |
|                     | TC                 | SHC  | IP   | TC    | SHC  | IP   | TC    | SHC  | IP   | TC    | SHC  | IP   | TC    | SHC  | IP   | TC    | SHC  | IP   |
| -20.6               | 9.22               | 7.95 | 1.80 | 10.28 | 7.99 | 1.82 | 10.25 | 7.62 | 2.36 | 10.90 | 8.24 | 2.39 | 11.55 | 8.21 | 2.41 | 12.21 | 8.74 | 2.43 |
| -15                 | 8.55               | 6.94 | 2.33 | 9.54  | 6.97 | 2.35 | 10.19 | 7.59 | 2.37 | 10.84 | 8.21 | 2.40 | 11.48 | 8.18 | 2.42 | 12.14 | 8.71 | 2.44 |
| -10                 | 8.52               | 6.91 | 2.31 | 9.49  | 6.96 | 2.35 | 10.13 | 7.58 | 2.38 | 10.78 | 8.19 | 2.41 | 11.43 | 8.16 | 2.43 | 12.07 | 8.69 | 2.44 |
| 0                   | 8.42               | 6.88 | 2.35 | 9.38  | 6.91 | 2.38 | 10.02 | 7.53 | 2.40 | 10.67 | 8.15 | 2.43 | 11.31 | 8.11 | 2.46 | 11.95 | 8.64 | 2.49 |
| 5                   | 8.38               | 6.85 | 2.36 | 9.35  | 6.90 | 2.39 | 9.97  | 7.50 | 2.42 | 10.61 | 8.12 | 2.44 | 11.24 | 8.09 | 2.47 | 11.89 | 8.62 | 2.50 |
| 10                  | 8.34               | 6.83 | 2.36 | 9.28  | 6.86 | 2.40 | 9.92  | 7.48 | 2.42 | 10.56 | 8.10 | 2.45 | 11.19 | 8.06 | 2.46 | 11.82 | 8.59 | 2.49 |
| 15                  | 8.34               | 6.85 | 2.34 | 9.30  | 6.90 | 2.37 | 9.93  | 7.51 | 2.40 | 10.57 | 8.12 | 2.42 | 11.20 | 8.09 | 2.45 | 11.84 | 8.62 | 2.48 |
| 19.4                | 9.64               | 7.36 | 2.81 | 10.74 | 7.41 | 2.85 | 11.47 | 8.07 | 2.87 | 12.20 | 8.73 | 2.90 | 12.94 | 8.70 | 2.93 | 13.66 | 9.26 | 2.95 |
| 25                  | 9.24               | 7.20 | 3.09 | 10.28 | 7.24 | 3.13 | 10.98 | 7.89 | 3.16 | 11.69 | 8.53 | 3.19 | 12.38 | 8.50 | 3.22 | 13.08 | 9.05 | 3.26 |
| 30                  | 8.87               | 7.06 | 3.33 | 9.88  | 7.09 | 3.38 | 10.55 | 7.73 | 3.41 | 11.23 | 8.36 | 3.46 | 11.90 | 8.32 | 3.48 | 12.58 | 8.87 | 3.52 |
| 35                  | 8.34               | 6.79 | 3.62 | 9.29  | 6.83 | 3.67 | 9.91  | 7.44 | 3.72 | 10.55 | 8.06 | 3.75 | 11.18 | 8.02 | 3.79 | 11.81 | 8.55 | 3.83 |
| 40                  | 7.80               | 6.55 | 3.91 | 8.69  | 6.59 | 3.97 | 9.28  | 7.18 | 4.01 | 9.87  | 7.76 | 4.04 | 10.47 | 7.73 | 4.08 | 11.06 | 8.24 | 4.13 |
| 46.1                | 6.48               | 6.06 | 3.55 | 7.22  | 6.10 | 3.60 | 7.71  | 6.64 | 3.62 | 8.20  | 7.18 | 3.67 | 8.70  | 7.16 | 3.69 | 9.19  | 7.62 | 3.74 |

## 4-2. Heating capacity

**NOTE:** Values mentioned in the table are calculated based on the maximum capacity.

### ■ Model: ARUH18LUAS

| AFR                 |      |       |                    | CFM   |        |       |        | 618   |        |       |        |      |
|---------------------|------|-------|--------------------|-------|--------|-------|--------|-------|--------|-------|--------|------|
|                     |      |       | Indoor temperature |       |        |       |        |       |        |       |        |      |
|                     |      | °FDB  | 60                 |       | 65     |       | 70     |       | 72     |       | 75     |      |
| Outdoor temperature | °FDB | °FWB  | TC                 | IP    | TC     | IP    | TC     | IP    | TC     | IP    | TC     | IP   |
|                     |      |       | kBtu/h             | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW   |
|                     | -5   | -7    | 15.11              | 2.07  | 14.77  | 2.11  | 14.40  | 2.16  | 14.03  | 2.20  | 13.69  | 2.24 |
|                     | 5    | 3     | 17.63              | 2.22  | 17.22  | 2.27  | 16.80  | 2.32  | 16.37  | 2.36  | 15.96  | 2.41 |
|                     | 14   | 12    | 19.63              | 2.31  | 19.16  | 2.36  | 18.69  | 2.41  | 18.21  | 2.46  | 17.74  | 2.50 |
|                     | 17   | 15    | 20.28              | 2.34  | 19.79  | 2.39  | 19.30  | 2.44  | 18.82  | 2.49  | 18.33  | 2.54 |
|                     | 23   | 19    | 21.59              | 2.41  | 21.09  | 2.46  | 20.57  | 2.50  | 20.05  | 2.56  | 19.54  | 2.61 |
|                     | 32   | 28    | 23.60              | 2.49  | 23.04  | 2.55  | 22.46  | 2.60  | 21.90  | 2.65  | 21.35  | 2.70 |
|                     | 41   | 37    | 25.55              | 2.57  | 24.96  | 2.63  | 24.35  | 2.69  | 23.74  | 2.74  | 23.13  | 2.80 |
|                     | 47   | 43    | 26.88              | 2.65  | 26.24  | 2.70  | 25.60  | 2.75  | 24.96  | 2.81  | 24.32  | 2.86 |
| 50                  | 47   | 27.79 | 2.60               | 27.13 | 2.66   | 26.47 | 2.71   | 25.80 | 2.77   | 25.14 | 2.82   |      |
| 59                  | 50   | 24.82 | 2.00               | 24.23 | 2.03   | 23.63 | 2.08   | 23.04 | 2.12   | 22.44 | 2.15   |      |

| AFR                 |       |       |      | m³/h               |      |      |      | 1,050 |      |      |      |      |
|---------------------|-------|-------|------|--------------------|------|------|------|-------|------|------|------|------|
|                     |       |       |      | Indoor temperature |      |      |      |       |      |      |      |      |
|                     |       | °CDB  | 15.6 |                    | 18.3 |      | 21.1 |       | 22.2 |      | 23.9 |      |
| Outdoor temperature | °CDB  | °CWB  | TC   | IP                 | TC   | IP   | TC   | IP    | TC   | IP   | TC   | IP   |
|                     |       |       | kW   |                    | kW   |      | kW   |       | kW   |      | kW   |      |
|                     | -20.6 | -21.7 | 4.43 | 2.07               | 4.33 | 2.11 | 4.22 | 2.16  | 4.11 | 2.20 | 4.01 | 2.24 |
|                     | -15   | -16.1 | 5.17 | 2.22               | 5.05 | 2.27 | 4.92 | 2.32  | 4.80 | 2.36 | 4.68 | 2.41 |
|                     | -10   | -11.1 | 5.75 | 2.31               | 5.61 | 2.36 | 5.48 | 2.41  | 5.34 | 2.46 | 5.20 | 2.50 |
|                     | -8.3  | -9.4  | 5.94 | 2.34               | 5.80 | 2.39 | 5.66 | 2.44  | 5.51 | 2.49 | 5.37 | 2.54 |
|                     | -5    | -7.2  | 6.33 | 2.41               | 6.18 | 2.46 | 6.03 | 2.50  | 5.88 | 2.56 | 5.73 | 2.61 |
|                     | 0     | -2.2  | 6.92 | 2.49               | 6.75 | 2.55 | 6.58 | 2.60  | 6.42 | 2.65 | 6.26 | 2.70 |
|                     | 5     | 2.8   | 7.49 | 2.57               | 7.32 | 2.63 | 7.14 | 2.69  | 6.96 | 2.74 | 6.78 | 2.80 |
|                     | 8.3   | 6.1   | 7.88 | 2.65               | 7.69 | 2.70 | 7.50 | 2.75  | 7.31 | 2.81 | 7.13 | 2.86 |
| 10                  | 8.3   | 8.15  | 2.60 | 7.95               | 2.66 | 7.76 | 2.71 | 7.56  | 2.77 | 7.37 | 2.82 |      |
| 15                  | 10    | 7.27  | 2.00 | 7.10               | 2.03 | 6.93 | 2.08 | 6.75  | 2.12 | 6.58 | 2.15 |      |

### ■ Model: ARUH24LUAS

| AFR                 |      |       |                    | CFM   |        |       |        | 800   |        |       |        |      |
|---------------------|------|-------|--------------------|-------|--------|-------|--------|-------|--------|-------|--------|------|
|                     |      |       | Indoor temperature |       |        |       |        |       |        |       |        |      |
|                     |      | °FDB  | 60                 |       | 65     |       | 70     |       | 72     |       | 75     |      |
| Outdoor temperature | °FDB | °FWB  | TC                 | IP    | TC     | IP    | TC     | IP    | TC     | IP    | TC     | IP   |
|                     |      |       | kBtu/h             | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW   |
|                     | -5   | -7    | 21.75              | 3.20  | 21.22  | 3.27  | 20.70  | 3.39  | 20.18  | 3.40  | 19.65  | 3.48 |
|                     | 5    | 3     | 24.37              | 3.26  | 23.79  | 3.33  | 23.20  | 3.40  | 22.62  | 3.46  | 22.03  | 3.54 |
|                     | 14   | 12    | 26.34              | 3.19  | 25.73  | 3.25  | 25.09  | 3.32  | 24.48  | 3.39  | 23.84  | 3.45 |
|                     | 17   | 15    | 26.99              | 3.17  | 26.36  | 3.23  | 25.70  | 3.29  | 25.07  | 3.36  | 24.42  | 3.43 |
|                     | 23   | 19    | 28.32              | 3.12  | 27.65  | 3.18  | 26.98  | 3.24  | 26.28  | 3.31  | 25.61  | 3.37 |
|                     | 32   | 28    | 30.31              | 3.03  | 29.59  | 3.10  | 28.87  | 3.16  | 28.15  | 3.22  | 27.43  | 3.28 |
|                     | 41   | 37    | 32.31              | 2.95  | 31.53  | 3.03  | 30.76  | 3.08  | 29.98  | 3.15  | 29.23  | 3.20 |
|                     | 47   | 43    | 33.62              | 2.91  | 32.81  | 2.96  | 32.00  | 3.03  | 31.20  | 3.08  | 30.42  | 3.15 |
| 50                  | 47   | 34.46 | 2.92               | 33.63 | 2.98   | 32.82 | 3.03   | 31.99 | 3.09   | 31.18 | 3.17   |      |
| 59                  | 50   | 34.75 | 2.80               | 33.92 | 2.88   | 33.09 | 2.93   | 32.26 | 2.99   | 31.45 | 3.03   |      |

| AFR                 |       |       | m³/h               |      |      |      |      |      | 1,360 |      |      |      |
|---------------------|-------|-------|--------------------|------|------|------|------|------|-------|------|------|------|
|                     |       |       | Indoor temperature |      |      |      |      |      |       |      |      |      |
|                     |       | °CDB  | 15.6               |      | 18.3 |      | 21.1 |      | 22.2  |      | 23.9 |      |
| Outdoor temperature | °CDB  | °CWB  | TC                 | IP   | TC   | IP   | TC   | IP   | TC    | IP   | TC   | IP   |
|                     |       |       | kW                 |      | kW   |      | kW   |      | kW    |      | kW   |      |
|                     | -20.6 | -21.7 | 6.37               | 3.20 | 6.22 | 3.27 | 6.07 | 3.39 | 5.91  | 3.40 | 5.76 | 3.48 |
|                     | -15   | -16.1 | 7.14               | 3.26 | 6.97 | 3.33 | 6.80 | 3.40 | 6.63  | 3.46 | 6.46 | 3.54 |
|                     | -10   | -11.1 | 7.72               | 3.19 | 7.54 | 3.25 | 7.35 | 3.32 | 7.17  | 3.39 | 6.99 | 3.45 |
|                     | -8.3  | -9.4  | 7.91               | 3.17 | 7.73 | 3.23 | 7.53 | 3.29 | 7.35  | 3.36 | 7.16 | 3.43 |
|                     | -5    | -7.2  | 8.30               | 3.12 | 8.10 | 3.18 | 7.91 | 3.24 | 7.70  | 3.31 | 7.51 | 3.37 |
|                     | 0     | -2.2  | 8.88               | 3.03 | 8.67 | 3.10 | 8.46 | 3.16 | 8.25  | 3.22 | 8.04 | 3.28 |
|                     | 5     | 2.8   | 9.47               | 2.95 | 9.24 | 3.03 | 9.01 | 3.08 | 8.79  | 3.15 | 8.57 | 3.20 |
|                     | 8.3   | 6.1   | 9.85               | 2.91 | 9.62 | 2.96 | 9.38 | 3.03 | 9.14  | 3.08 | 8.91 | 3.15 |
| 10                  | 8.3   | 10.10 | 2.92               | 9.86 | 2.98 | 9.62 | 3.03 | 9.38 | 3.09  | 9.14 | 3.17 |      |
| 15                  | 10    | 10.18 | 2.80               | 9.94 | 2.88 | 9.70 | 2.93 | 9.45 | 2.99  | 9.22 | 3.03 |      |

# Model: ARUH30LUAS

| AFR                 |      |       |                    | CFM   |        |       |        | 1,001 |        |       |        |      |
|---------------------|------|-------|--------------------|-------|--------|-------|--------|-------|--------|-------|--------|------|
|                     |      |       | Indoor temperature |       |        |       |        |       |        |       |        |      |
|                     |      | °FDB  | 60                 |       | 65     |       | 70     |       | 72     |       | 75     |      |
| Outdoor temperature | °FDB | °FWB  | TC                 | IP    | TC     | IP    | TC     | IP    | TC     | IP    | TC     | IP   |
|                     |      |       | kBtu/h             | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW   |
|                     | -5   | -7    | 25.21              | 3.72  | 24.60  | 3.80  | 24.00  | 3.88  | 23.43  | 3.96  | 22.82  | 4.03 |
|                     | 5    | 3     | 29.41              | 3.86  | 28.71  | 3.94  | 28.00  | 4.02  | 27.33  | 4.10  | 26.63  | 4.18 |
|                     | 14   | 12    | 31.66              | 3.82  | 30.90  | 3.90  | 30.15  | 3.97  | 29.39  | 4.05  | 28.64  | 4.13 |
|                     | 17   | 15    | 32.47              | 3.81  | 31.66  | 3.88  | 30.90  | 3.96  | 30.13  | 4.04  | 29.36  | 4.11 |
|                     | 23   | 19    | 33.93              | 3.77  | 33.11  | 3.85  | 32.29  | 3.93  | 31.48  | 4.01  | 30.70  | 4.08 |
|                     | 32   | 28    | 36.16              | 3.73  | 35.30  | 3.81  | 34.44  | 3.88  | 33.58  | 3.96  | 32.73  | 4.04 |
|                     | 41   | 37    | 38.43              | 3.69  | 37.51  | 3.76  | 36.59  | 3.84  | 35.70  | 3.92  | 34.77  | 3.98 |
|                     | 47   | 43    | 39.90              | 3.66  | 38.95  | 3.73  | 38.00  | 3.81  | 37.05  | 3.89  | 36.10  | 3.96 |
| 50                  | 47   | 40.66 | 3.61               | 39.69 | 3.69   | 38.72 | 3.77   | 37.74 | 3.84   | 36.77 | 3.91   |      |
| 59                  | 50   | 37.81 | 3.00               | 36.90 | 3.06   | 36.00 | 3.12   | 35.13 | 3.18   | 34.22 | 3.23   |      |

| AFR                 |       |       |                    | m³/h  |       |       |       | 1,700 |       |       |       |      |
|---------------------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                     |       |       | Indoor temperature |       |       |       |       |       |       |       |       |      |
|                     |       | °CDB  | 15.6               |       | 18.3  |       | 21.1  |       | 22.2  |       | 23.9  |      |
| Outdoor temperature | °CDB  | °CWB  | TC                 | IP    | TC    | IP    | TC    | IP    | TC    | IP    | TC    | IP   |
|                     |       |       | kW                 |       | kW    |       | kW    |       | kW    |       | kW    |      |
|                     | -20.6 | -21.7 | 7.39               | 3.72  | 7.21  | 3.80  | 7.03  | 3.88  | 6.87  | 3.96  | 6.69  | 4.03 |
|                     | -15   | -16.1 | 8.62               | 3.86  | 8.41  | 3.94  | 8.21  | 4.02  | 8.01  | 4.10  | 7.80  | 4.18 |
|                     | -10   | -11.1 | 9.28               | 3.82  | 9.06  | 3.90  | 8.84  | 3.97  | 8.61  | 4.05  | 8.39  | 4.13 |
|                     | -8.3  | -9.4  | 9.52               | 3.81  | 9.28  | 3.88  | 9.05  | 3.96  | 8.83  | 4.04  | 8.60  | 4.11 |
|                     | -5    | -7.2  | 9.94               | 3.77  | 9.70  | 3.85  | 9.46  | 3.93  | 9.23  | 4.01  | 9.00  | 4.08 |
|                     | 0     | -2.2  | 10.60              | 3.73  | 10.35 | 3.81  | 10.09 | 3.88  | 9.84  | 3.96  | 9.59  | 4.04 |
|                     | 5     | 2.8   | 11.26              | 3.69  | 10.99 | 3.76  | 10.72 | 3.84  | 10.46 | 3.92  | 10.19 | 3.98 |
| 8.3                 | 6.1   | 11.69 | 3.66               | 11.42 | 3.73  | 11.14 | 3.81  | 10.86 | 3.89  | 10.58 | 3.96  |      |
| 10                  | 8.3   | 11.92 | 3.61               | 11.63 | 3.69  | 11.35 | 3.77  | 11.06 | 3.84  | 10.78 | 3.91  |      |
| 15                  | 10    | 11.08 | 3.00               | 10.82 | 3.06  | 10.55 | 3.12  | 10.30 | 3.18  | 10.03 | 3.23  |      |

# Model: ARUH36LUAS

| AFR                 |      |       |                    | CFM   |        |       |        | 1,089 |        |       |        |      |
|---------------------|------|-------|--------------------|-------|--------|-------|--------|-------|--------|-------|--------|------|
|                     |      |       | Indoor temperature |       |        |       |        |       |        |       |        |      |
|                     |      |       | °FDB               |       | 60     |       | 65     |       | 70     |       | 72     |      |
| Outdoor temperature | °FDB | °FWB  | TC                 | IP    | TC     | IP    | TC     | IP    | TC     | IP    | TC     | IP   |
|                     |      |       | kBtu/h             | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW    | kBtu/h | kW   |
|                     | -5   | -7    | 28.36              | 3.87  | 27.68  | 3.95  | 27.00  | 4.06  | 26.32  | 4.10  | 25.64  | 4.19 |
|                     | 5    | 3     | 32.57              | 4.19  | 31.79  | 4.28  | 31.00  | 4.37  | 30.22  | 4.45  | 29.44  | 4.55 |
|                     | 14   | 12    | 35.26              | 4.15  | 34.43  | 4.23  | 33.58  | 4.32  | 32.76  | 4.40  | 31.90  | 4.49 |
|                     | 17   | 15    | 36.22              | 4.13  | 35.38  | 4.21  | 34.50  | 4.30  | 33.65  | 4.38  | 32.77  | 4.47 |
|                     | 23   | 19    | 37.95              | 4.10  | 37.05  | 4.18  | 36.15  | 4.26  | 35.22  | 4.35  | 34.32  | 4.44 |
|                     | 32   | 28    | 40.66              | 4.04  | 39.69  | 4.12  | 38.73  | 4.21  | 37.76  | 4.29  | 36.79  | 4.37 |
|                     | 41   | 37    | 43.38              | 3.98  | 42.34  | 4.08  | 41.30  | 4.16  | 40.26  | 4.24  | 39.25  | 4.32 |
|                     | 47   | 43    | 45.16              | 3.95  | 44.08  | 4.02  | 43.00  | 4.12  | 41.91  | 4.19  | 40.87  | 4.28 |
| 50                  | 47   | 46.89 | 3.97               | 45.75 | 4.05   | 44.66 | 4.13   | 43.52 | 4.21   | 42.42 | 4.31   |      |
| 59                  | 50   | 41.15 | 2.97               | 40.17 | 3.04   | 39.18 | 3.10   | 38.20 | 3.16   | 37.25 | 3.21   |      |

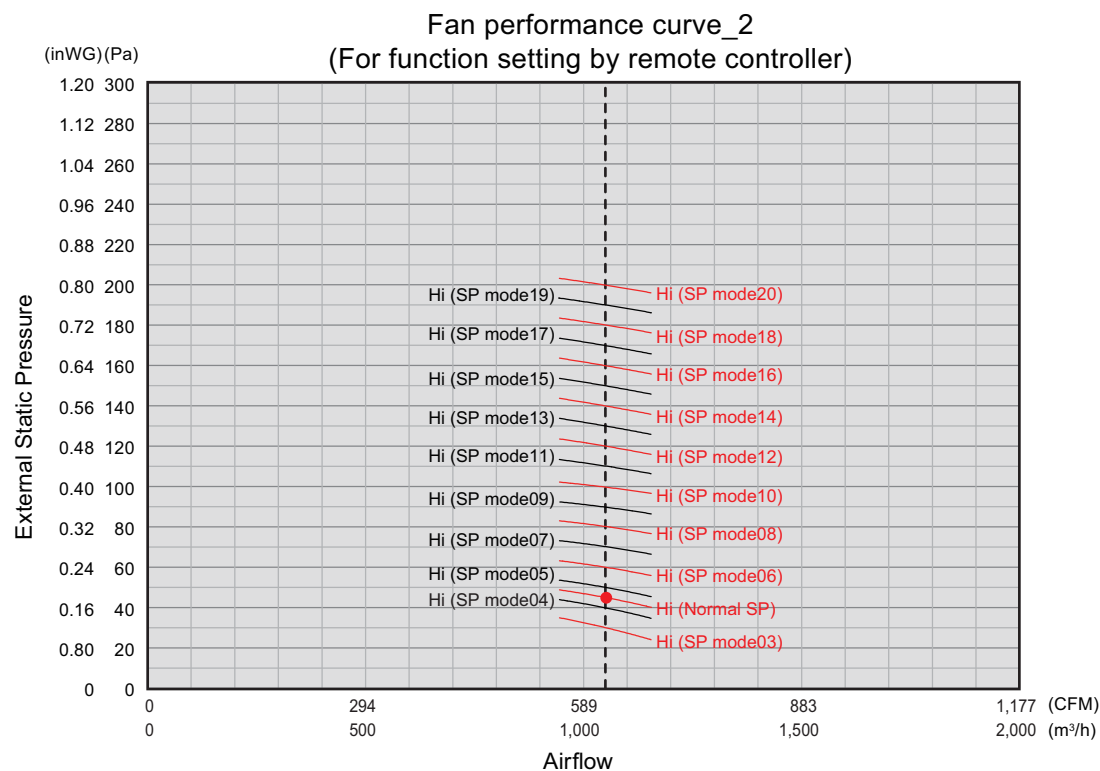
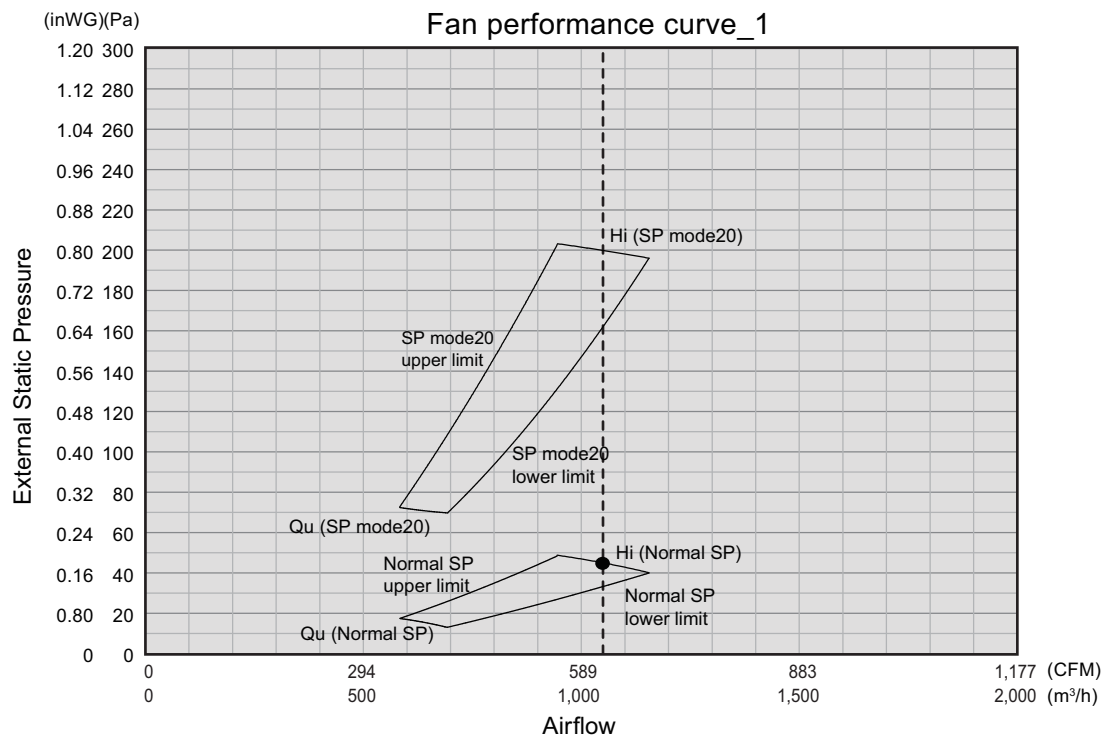
| AFR                 |       |       | m³/h               |       |       |       |       |       | 1,850 |       |       |      |
|---------------------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                     |       |       | Indoor temperature |       |       |       |       |       |       |       |       |      |
|                     |       | °CDB  | 15.6               |       | 18.3  |       | 21.1  |       | 22.2  |       | 23.9  |      |
| Outdoor temperature | °CDB  | °CWB  | TC                 | IP    | TC    | IP    | TC    | IP    | TC    | IP    | TC    | IP   |
|                     |       |       | kW                 |       | kW    |       | kW    |       | kW    |       | kW    |      |
|                     | -20.6 | -21.7 | 8.31               | 3.87  | 8.11  | 3.95  | 7.91  | 4.06  | 7.71  | 4.10  | 7.51  | 4.19 |
|                     | -15   | -16.1 | 9.55               | 4.19  | 9.32  | 4.28  | 9.09  | 4.37  | 8.86  | 4.45  | 8.63  | 4.55 |
|                     | -10   | -11.1 | 10.33              | 4.15  | 10.09 | 4.23  | 9.84  | 4.32  | 9.60  | 4.40  | 9.35  | 4.49 |
|                     | -8.3  | -9.4  | 10.62              | 4.13  | 10.37 | 4.21  | 10.11 | 4.30  | 9.86  | 4.38  | 9.61  | 4.47 |
|                     | -5    | -7.2  | 11.12              | 4.10  | 10.86 | 4.18  | 10.60 | 4.26  | 10.32 | 4.35  | 10.06 | 4.44 |
|                     | 0     | -2.2  | 11.92              | 4.04  | 11.63 | 4.12  | 11.35 | 4.21  | 11.07 | 4.29  | 10.78 | 4.37 |
|                     | 5     | 2.8   | 12.71              | 3.98  | 12.41 | 4.08  | 12.10 | 4.16  | 11.80 | 4.24  | 11.50 | 4.32 |
|                     | 8.3   | 6.1   | 13.24              | 3.95  | 12.92 | 4.02  | 12.60 | 4.12  | 12.28 | 4.19  | 11.98 | 4.28 |
| 10                  | 8.3   | 13.74 | 3.97               | 13.41 | 4.05  | 13.09 | 4.13  | 12.76 | 4.21  | 12.43 | 4.31  |      |
| 15                  | 10    | 12.06 | 2.97               | 11.77 | 3.04  | 11.48 | 3.10  | 11.20 | 3.16  | 10.92 | 3.21  |      |

## 5. Fan performance

**NOTE:** Airflow and capacity/outlet temperature curve data are measured based on the same conditions mentioned in "Specifications".

### 5-1. Fan performance curve

#### ■ Model: ARUH18LUAS



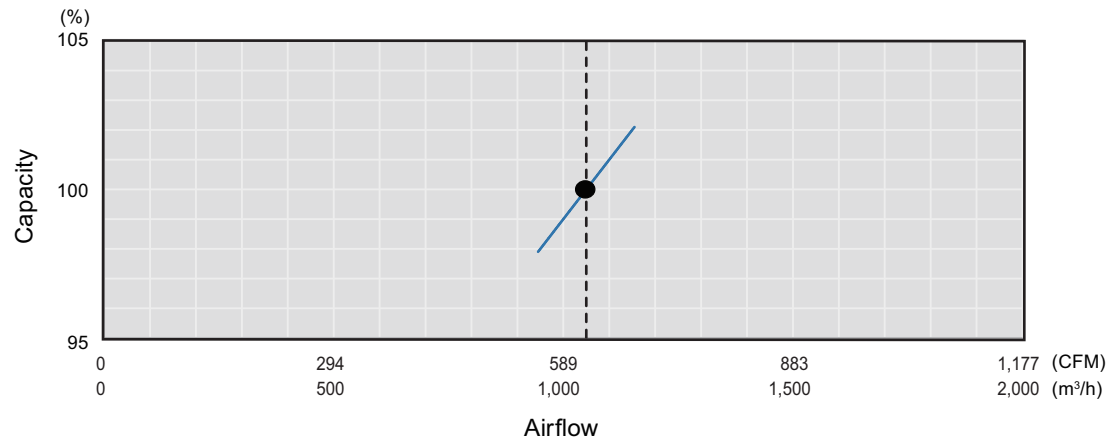
#### NOTES:

- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve\_2" above.
- The default setting is set at "Normal SP".

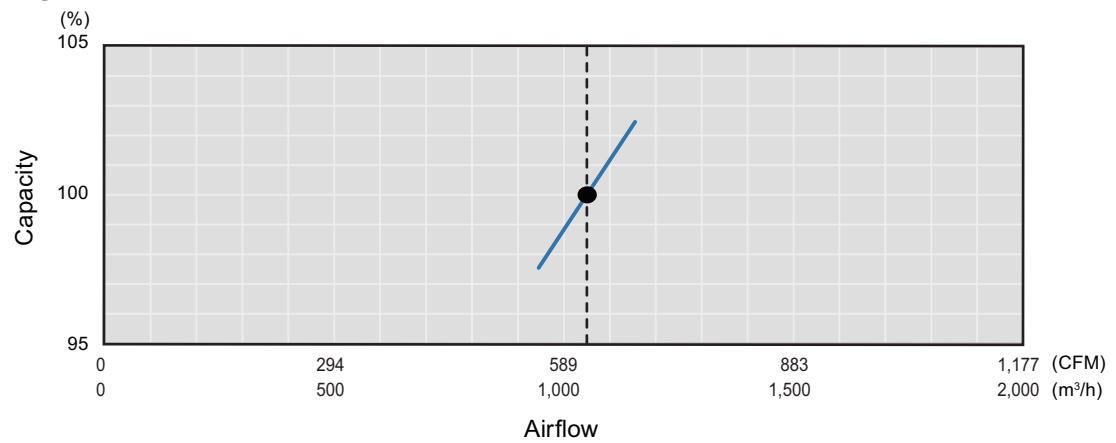


## ● Characteristics of air volume and capacity

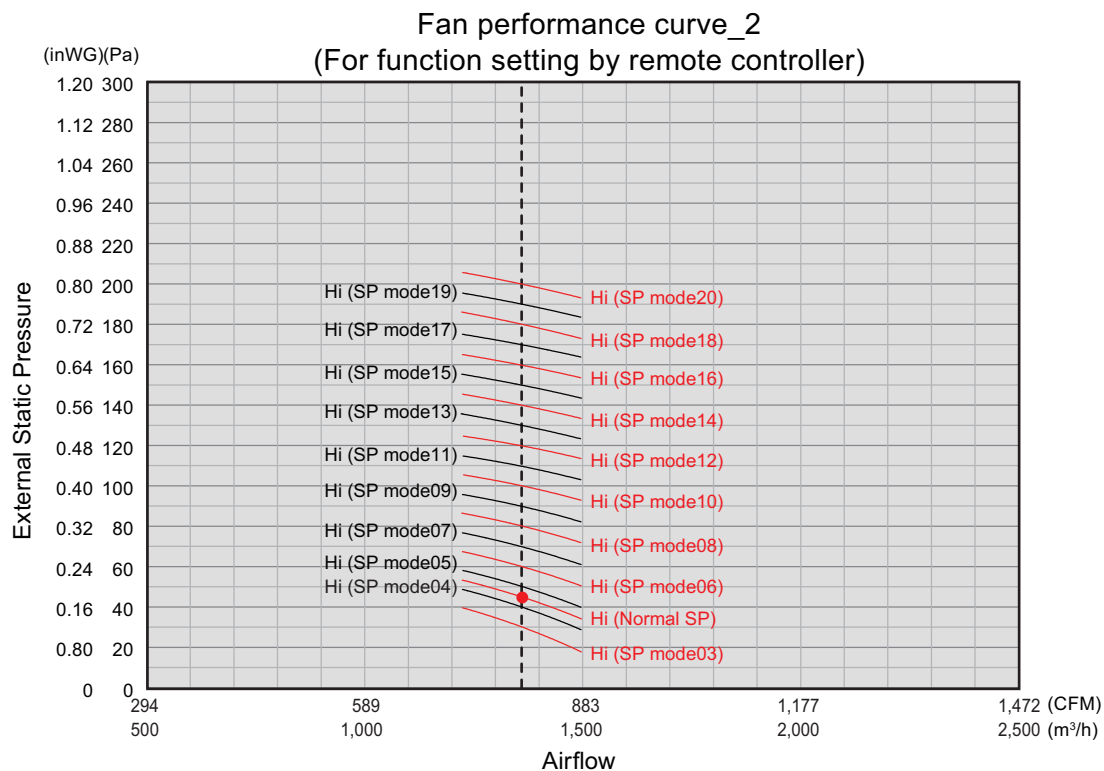
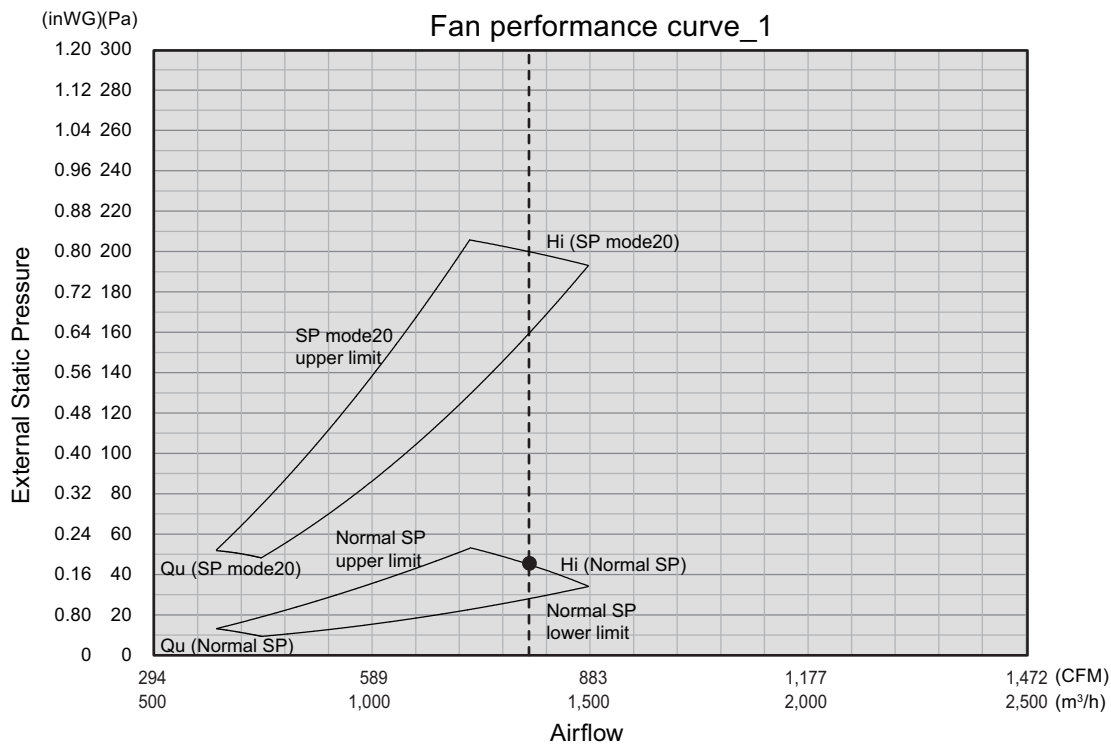
### • Cooling



### • Heating



# Model: ARUH24LUAS

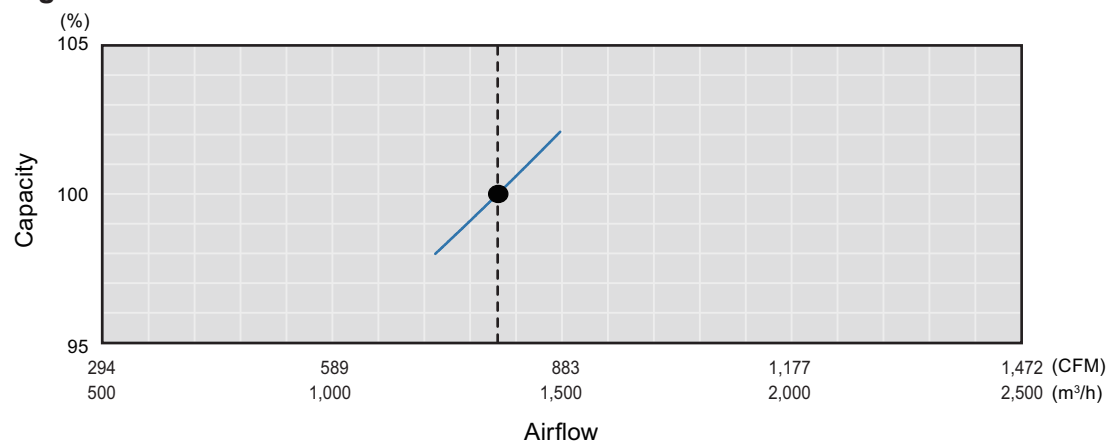


## NOTES:

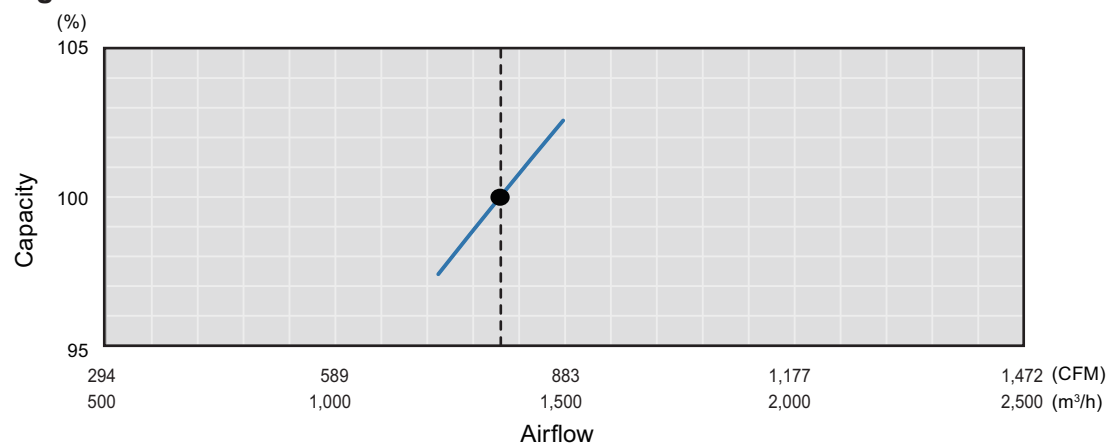
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve\_2" above.
- The default setting is set at "Normal SP".

## ● Characteristics of air volume and capacity

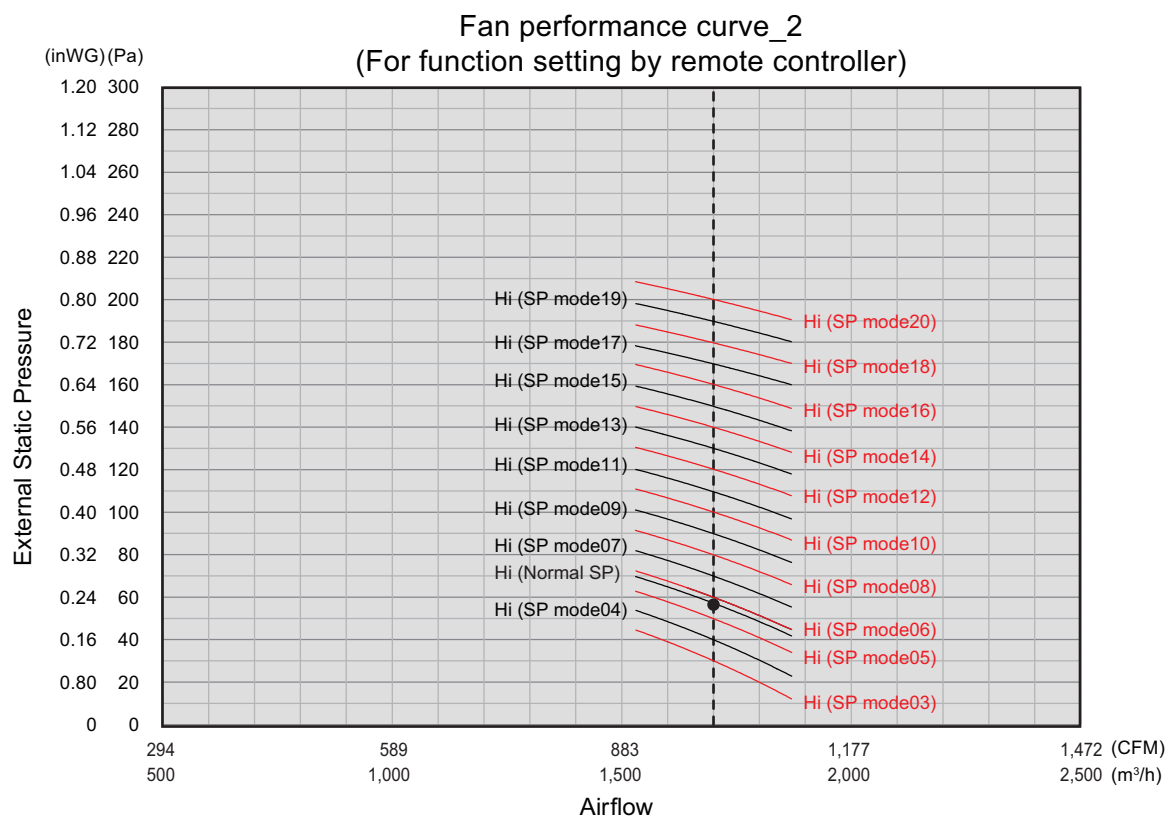
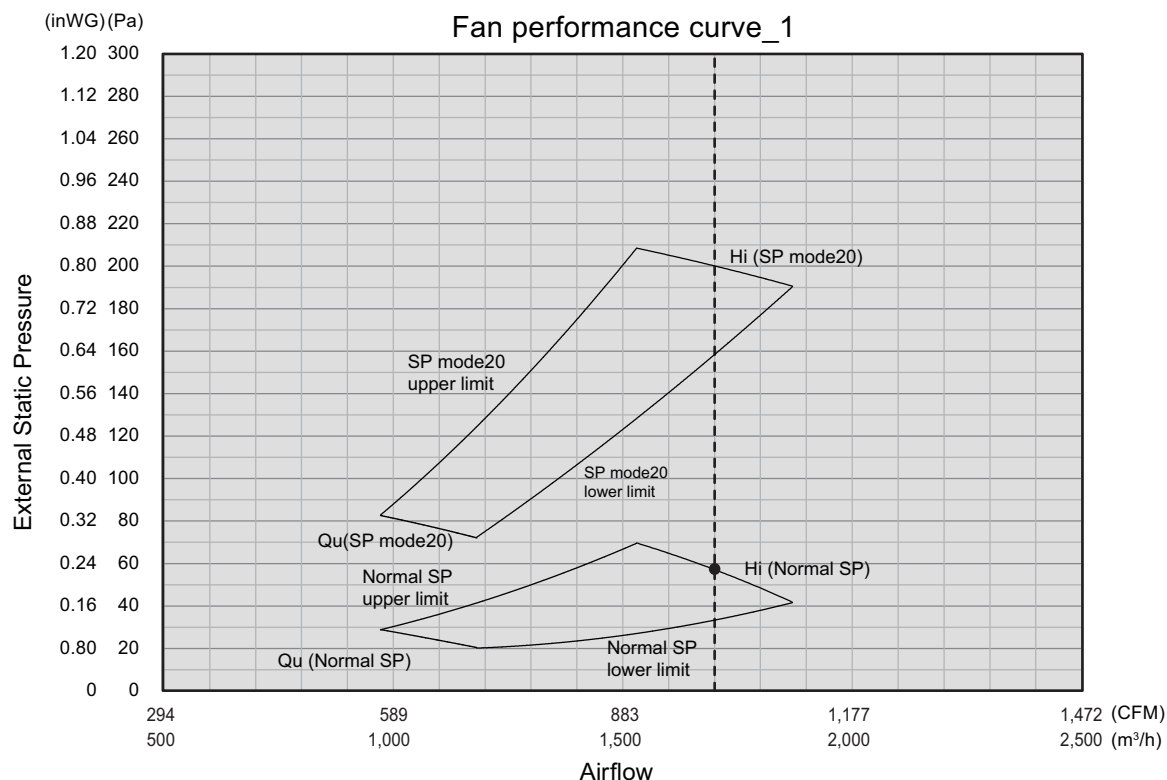
### • Cooling



### • Heating



# Model: ARUH30LUAS

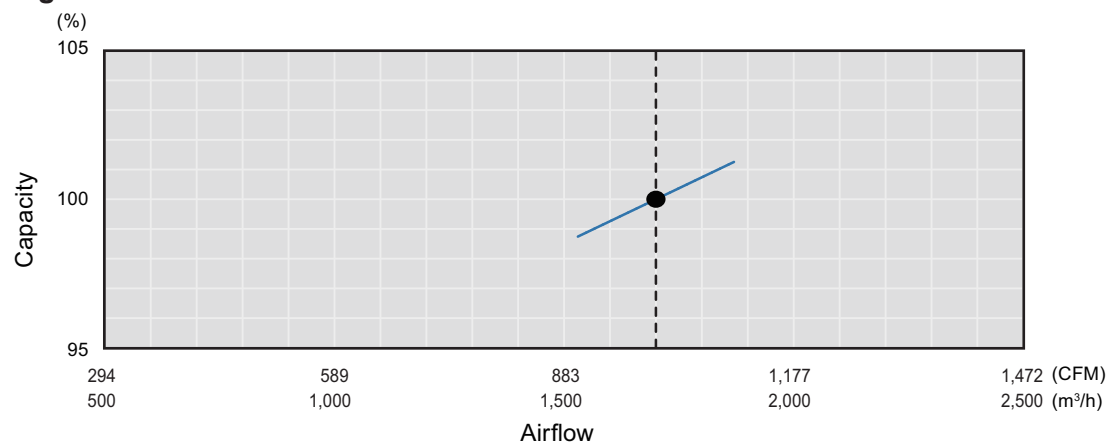


## NOTES:

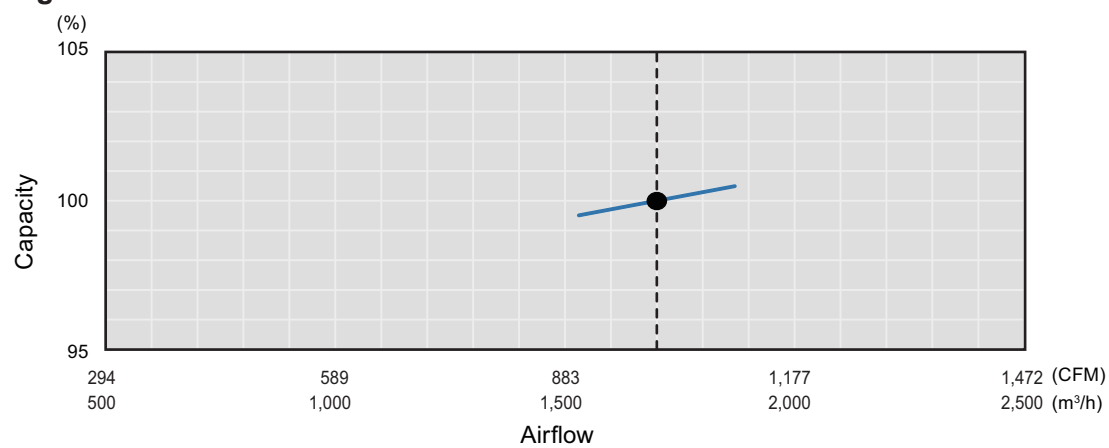
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve\_2" above.
- The default setting is set at "Normal SP".

## ● Characteristics of air volume and capacity

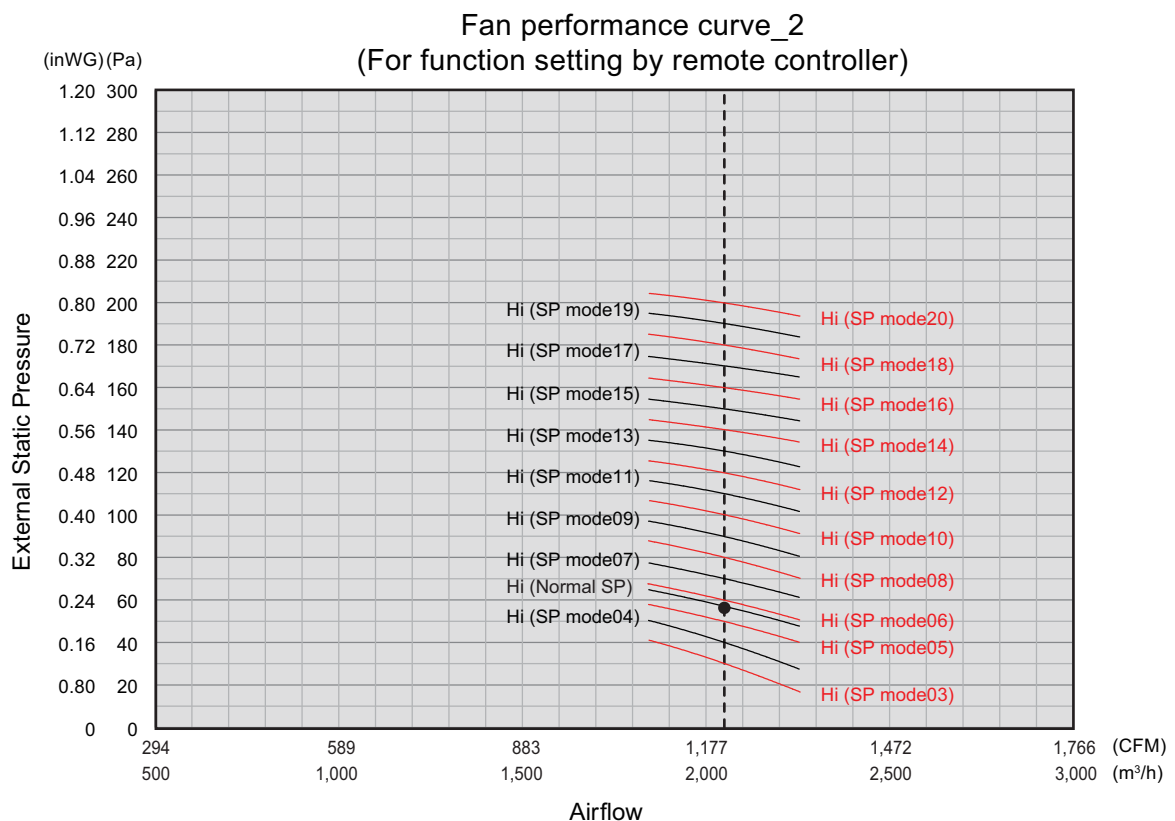
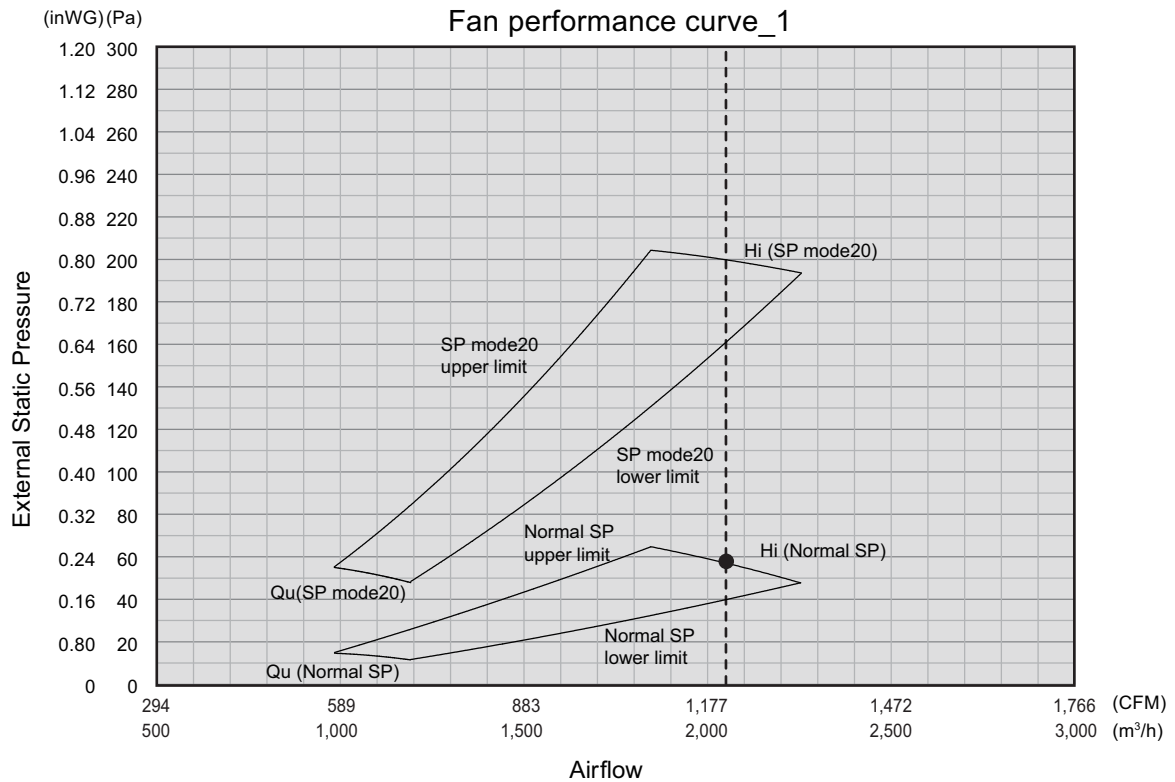
### • Cooling



### • Heating



# Model: ARUH36LUAS

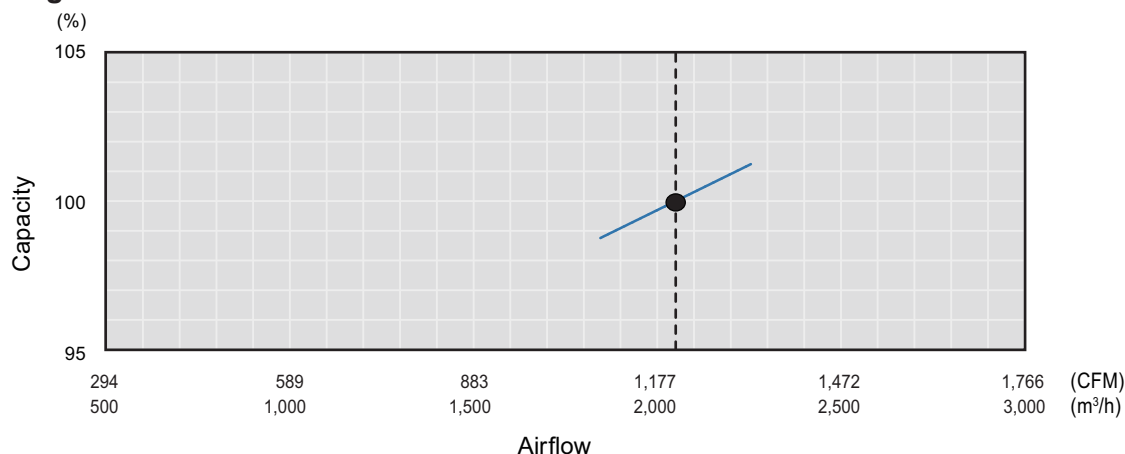


## NOTES:

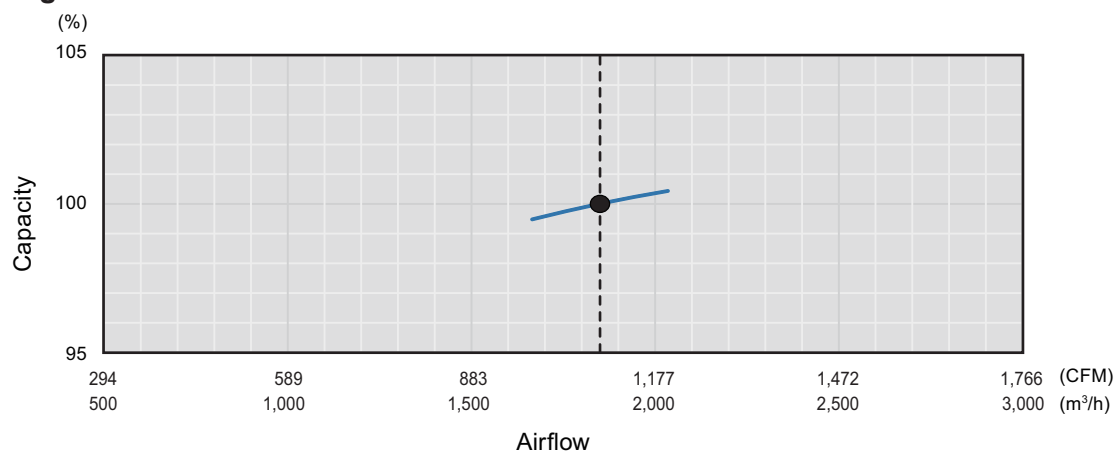
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve\_2" above.
- The default setting is set at "Normal SP".

## ● Characteristics of air volume and capacity

### • Cooling



### • Heating



## ■ Automatic airflow adjustment procedures

1. To start the auto setting, use setting value 32 in function number 26.
2. Run the air conditioner on fan mode (High).
  - \* For instructions on how to operate the air conditioner, refer to the operation manual of the remote controller.

During automatic airflow adjustment, the mode will be fixed at fan (High).  
When this function is active, do not operate the outdoor unit.
3. The air conditioner will run for about 1 to 8 min then stop automatically.
  - \* Do not change the throttles of the inlet and outlet ports during operation.

When used in a group control system, the setting will take about 10 min.
4. Turn the air conditioner off and on again.
5. Check the setting value of function number 26.
  - \* If the setting value has not changed, repeat the procedure from step 2.

### ⚠ CAUTION

When the duct or outlet installations are changed after the Automatic airflow adjustment is completed, repeat the procedure from step 1.

## 5-2. Airflow

### ■ Model: ARUH18LUAS

#### ● Cooling

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,050 |
|           | l/s               | 292   |
|           | CFM               | 618   |
| MED       | m <sup>3</sup> /h | 840   |
|           | l/s               | 233   |
|           | CFM               | 494   |
| LOW       | m <sup>3</sup> /h | 730   |
|           | l/s               | 203   |
|           | CFM               | 430   |
| QUIET     | m <sup>3</sup> /h | 630   |
|           | l/s               | 175   |
|           | CFM               | 371   |

#### ● Heating

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,050 |
|           | l/s               | 292   |
|           | CFM               | 618   |
| MED       | m <sup>3</sup> /h | 840   |
|           | l/s               | 233   |
|           | CFM               | 494   |
| LOW       | m <sup>3</sup> /h | 730   |
|           | l/s               | 203   |
|           | CFM               | 430   |
| QUIET     | m <sup>3</sup> /h | 630   |
|           | l/s               | 175   |
|           | CFM               | 371   |



## ■ Model: ARUH24LUAS

### ● Cooling

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,360 |
|           | l/s               | 378   |
|           | CFM               | 800   |
| MED       | m <sup>3</sup> /h | 1,080 |
|           | l/s               | 300   |
|           | CFM               | 636   |
| LOW       | m <sup>3</sup> /h | 880   |
|           | l/s               | 244   |
|           | CFM               | 518   |
| QUIET     | m <sup>3</sup> /h | 680   |
|           | l/s               | 189   |
|           | CFM               | 400   |

### ● Heating

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,360 |
|           | l/s               | 378   |
|           | CFM               | 800   |
| MED       | m <sup>3</sup> /h | 1,080 |
|           | l/s               | 300   |
|           | CFM               | 636   |
| LOW       | m <sup>3</sup> /h | 880   |
|           | l/s               | 244   |
|           | CFM               | 518   |
| QUIET     | m <sup>3</sup> /h | 680   |
|           | l/s               | 189   |
|           | CFM               | 400   |

## ■ Model: ARUH30LUAS

### ● Cooling

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,700 |
|           | l/s               | 472   |
|           | CFM               | 1,001 |
| MED       | m <sup>3</sup> /h | 1,360 |
|           | l/s               | 378   |
|           | CFM               | 800   |
| LOW       | m <sup>3</sup> /h | 1,190 |
|           | l/s               | 331   |
|           | CFM               | 700   |
| QUIET     | m <sup>3</sup> /h | 1,070 |
|           | l/s               | 297   |
|           | CFM               | 630   |

### ● Heating

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,700 |
|           | l/s               | 472   |
|           | CFM               | 1,001 |
| MED       | m <sup>3</sup> /h | 1,360 |
|           | l/s               | 378   |
|           | CFM               | 800   |
| LOW       | m <sup>3</sup> /h | 1,190 |
|           | l/s               | 331   |
|           | CFM               | 700   |
| QUIET     | m <sup>3</sup> /h | 1,070 |
|           | l/s               | 297   |
|           | CFM               | 630   |

## ■ Model: ARUH36LUAS

### ● Cooling

| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 2,050 |
|           | l/s               | 569   |
|           | CFM               | 1,207 |
| MED       | m <sup>3</sup> /h | 1,640 |
|           | l/s               | 456   |
|           | CFM               | 965   |
| LOW       | m <sup>3</sup> /h | 1,330 |
|           | l/s               | 369   |
|           | CFM               | 783   |
| QUIET     | m <sup>3</sup> /h | 1,070 |
|           | l/s               | 297   |
|           | CFM               | 630   |

### ● Heating

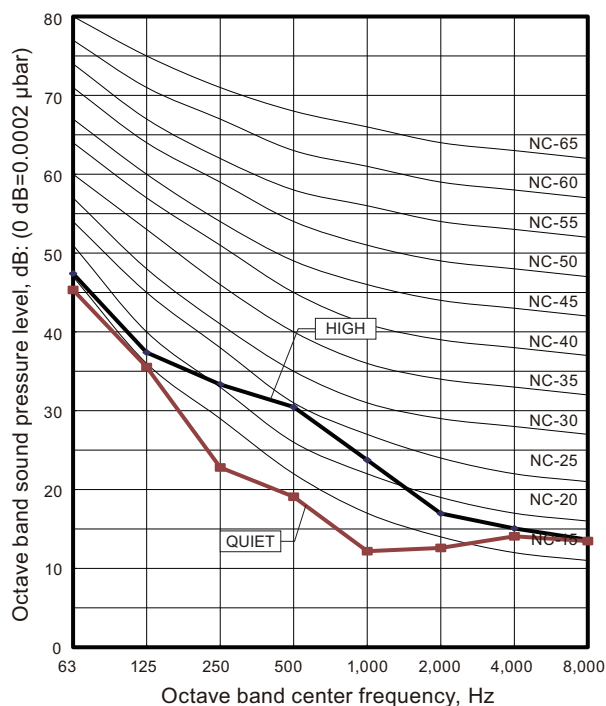
| Fan speed | Airflow           |       |
|-----------|-------------------|-------|
| HIGH      | m <sup>3</sup> /h | 1,850 |
|           | l/s               | 514   |
|           | CFM               | 1,089 |
| MED       | m <sup>3</sup> /h | 1,640 |
|           | l/s               | 456   |
|           | CFM               | 965   |
| LOW       | m <sup>3</sup> /h | 1,330 |
|           | l/s               | 369   |
|           | CFM               | 783   |
| QUIET     | m <sup>3</sup> /h | 1,070 |
|           | l/s               | 297   |
|           | CFM               | 630   |

## 6. Operation noise (sound pressure)

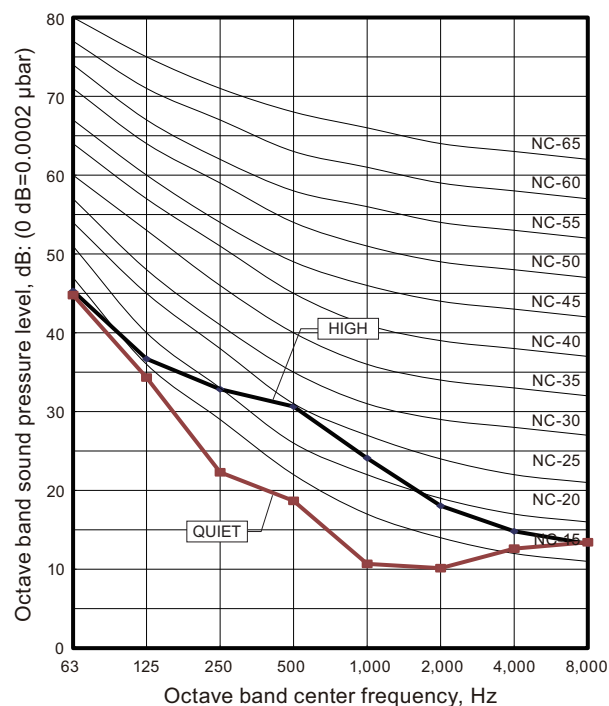
### 6-1. Noise level curve

#### ■ Model: ARUH18LUAS

##### ● Cooling

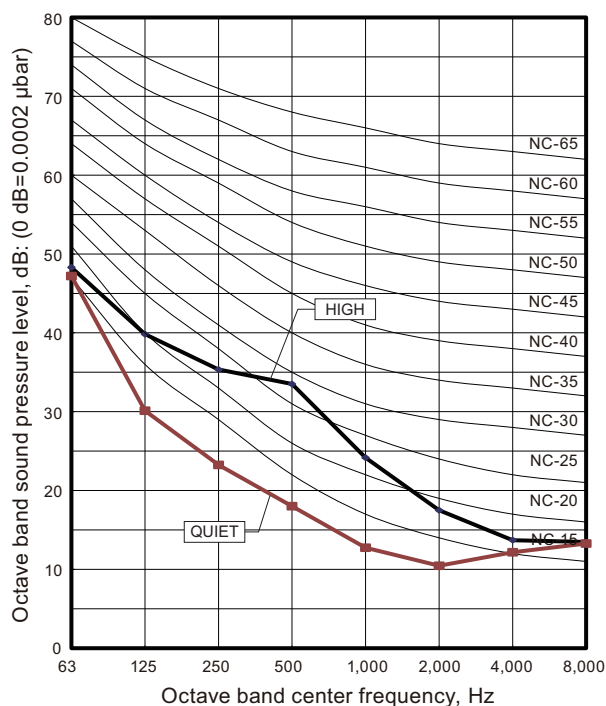


##### ● Heating

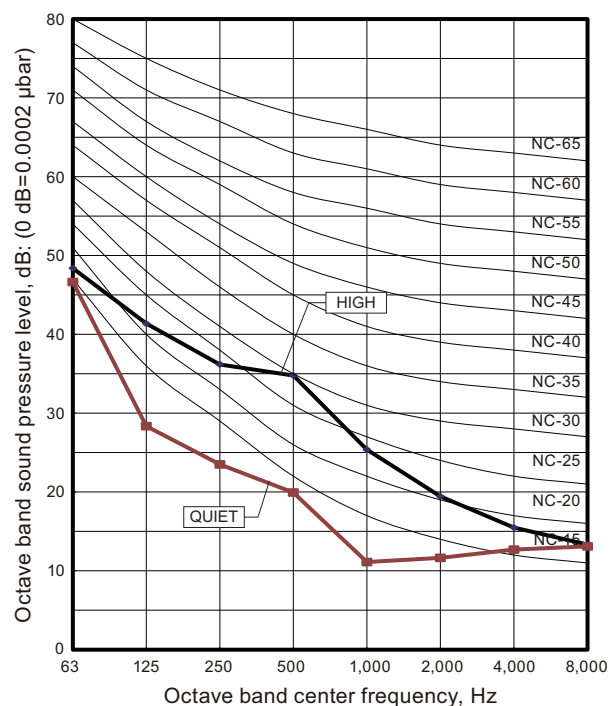


#### ■ Model: ARUH24LUAS

##### ● Cooling

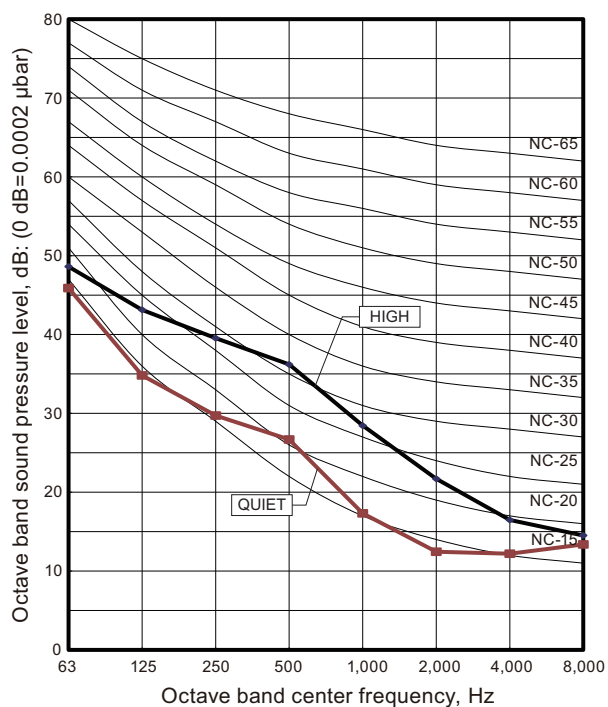


##### ● Heating

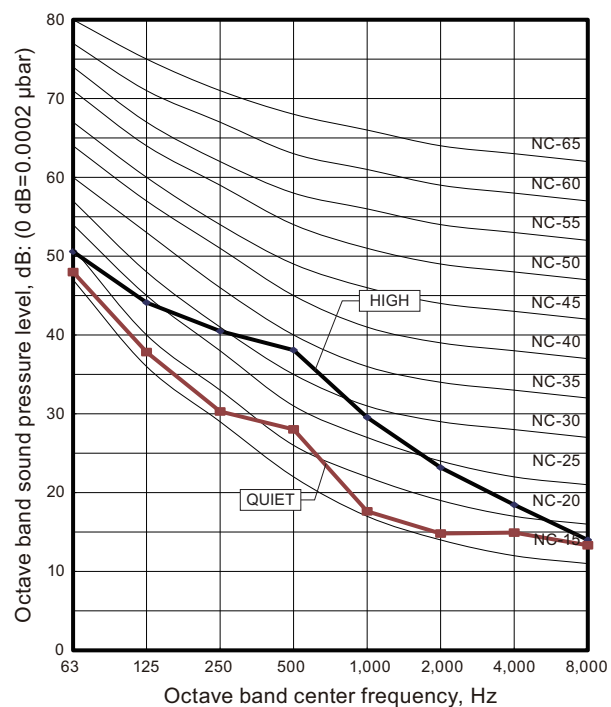


## Model: ARUH30LUAS

### Cooling

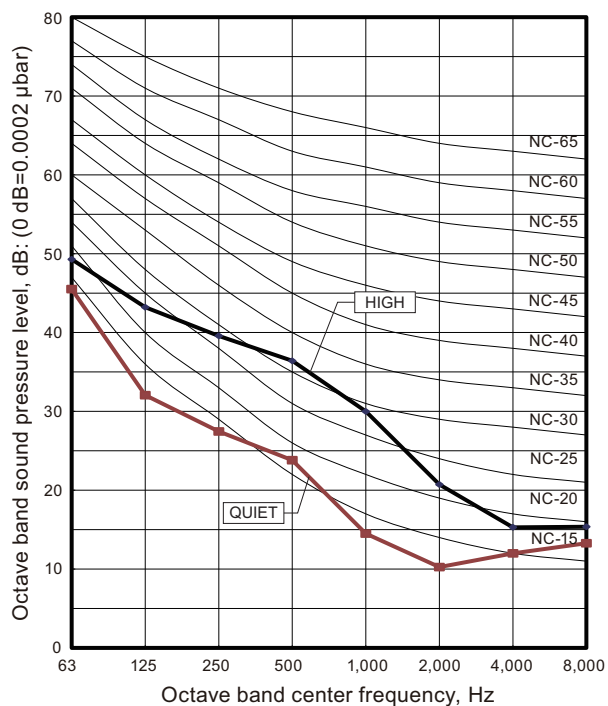


### Heating

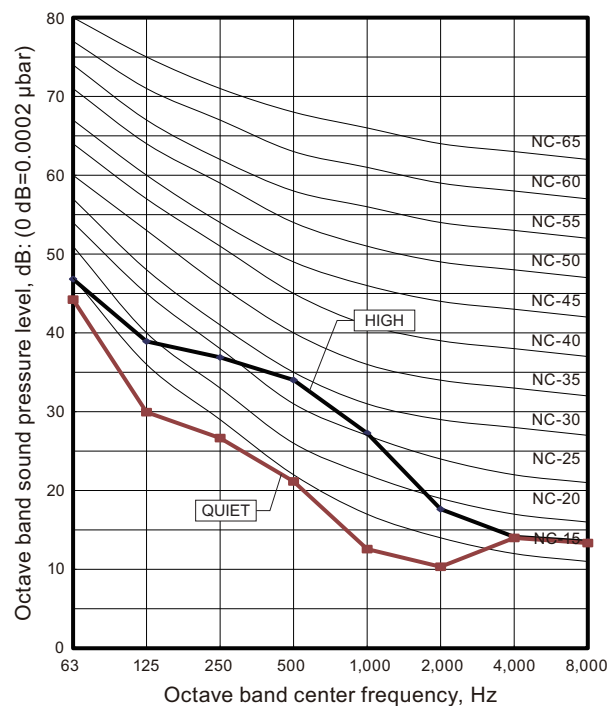


## Model: ARUH36LUAS

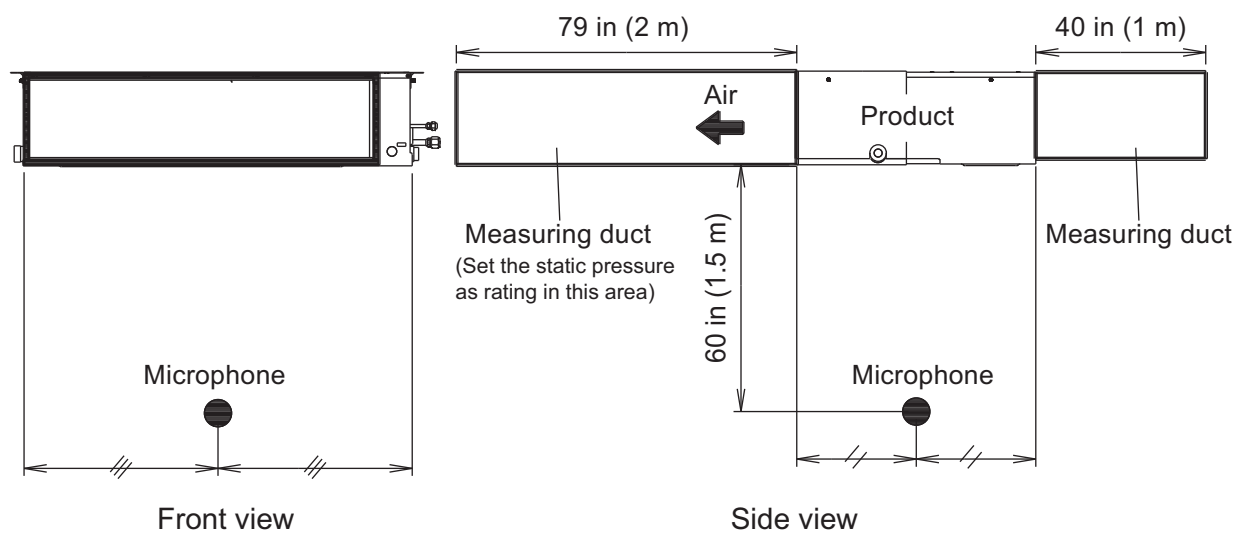
### Cooling



### Heating



## 6-2. Sound level check point



## 7. Safety devices

| Type of protection   | Protection form            |          | Model                                   |
|----------------------|----------------------------|----------|---|
|                      |                            |          | ARUH18LUAS<br>ARUH24LUAS                |
| Circuit protection   | Current fuse (PCB*)        |          | 250 V, 5 A                              |
| Fan motor protection | Thermal protection program | Activate | 239 ±59°F (115 ±15°C)<br>Fan motor stop |
|                      |                            | Reset    | 158°F (70°C)<br>Fan motor restart       |
|                      | Current protection         | Activate | 2.13 A                                  |

| Type of protection   | Protection form            |          | Model                                     |            |
|----------------------|----------------------------|----------|---|------------|
|                      |                            |          | ARUH30LUAS                                | ARUH36LUAS |
| Circuit protection   | Current fuse (PCB*)        |          | 250 V, 10 A                               |            |
| Fan motor protection | Thermal protection program | Activate | 212 ±41°F (100 ±5°C)<br>Fan motor stop    |            |
|                      |                            | Reset    | 158 ±59°F (70 ±15°C)<br>Fan motor restart |            |
|                      | Current protection         | Activate | 7.58 A                                    | 8.89 A     |

\*PCB: Printed Circuit Board

## 8. External input and output

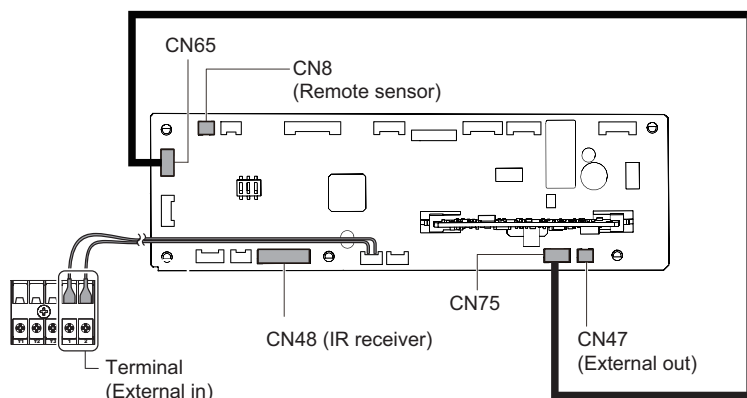


Fig. Indoor unit PCB

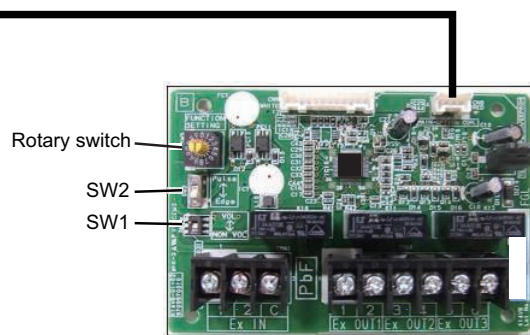


Fig. External Input and Output PCB

| Connecting point                         |                                  | Input/Output | Function                         | Input select              | Input signal |
|--|----------------------------------|--------------|----------------------------------|---------------------------|--------------|
| Indoor unit                              | Terminal                         | Input        | Operation/Stop                   | Dry contact               | Edge         |
|  |                                  |              | Forced stop                      |                           |              |
|  | CN47                             | Output       | Operation/Stop                   | —                         | —            |
|  |                                  |              | Error status                     |                           |              |
|  |                                  |              | Indoor unit fan operation status |                           |              |
|  |                                  |              | Cooling thermostat On            |                           |              |
|  |                                  |              | Heating thermostat On            |                           |              |
|  |                                  |              | External heater output           |                           |              |
| External Input and Output PCB (UTY-XCSX) | Ex IN 1/2                        | Input        | Operation/Stop                   | Dry contact/Apply voltage | Edge/Pulse   |
|  | Ex IN 1                          |              | Forced thermostat off            |                           | Edge         |
|  | Ex OUT 1<br>Ex OUT 2<br>Ex OUT 3 | Output       | Operation/Stop                   | —                         | —            |
|  |                                  |              | Error status                     |                           |              |
|  |                                  |              | Indoor unit fan operation status |                           |              |
|  |                                  |              | External heater output           |                           |              |
|  |                                  |              | Cooling high/low output          |                           |              |
|  |                                  |              | Heating thermostat On            |                           |              |

**NOTE:** For details of the switching function, refer to ["Setting of external input and output"](#) on page 38.

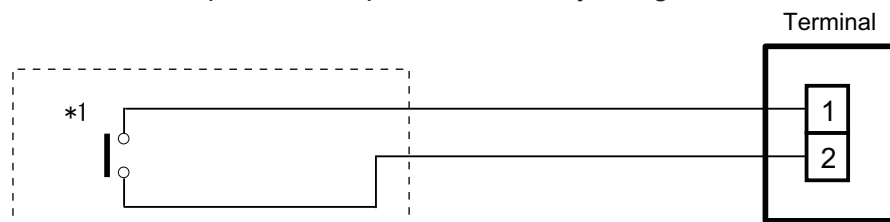


## 8-1. External input

- “Operation/Stop” mode or “Forced stop” mode can be selected with function setting of indoor unit.
- A twisted pair cable (22 AWG) should be used. Maximum length of cable is 492 ft (150 m).
- Use an external input and output cable with appropriate external dimension, depending on the number of cables to be installed.
- The wire connection should be separate from the power cable line.

### Indoor unit

Indoor unit functions such as Operation/Stop can be done by using indoor unit terminal.



\*1: The switch can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

### External Input and Output PCB

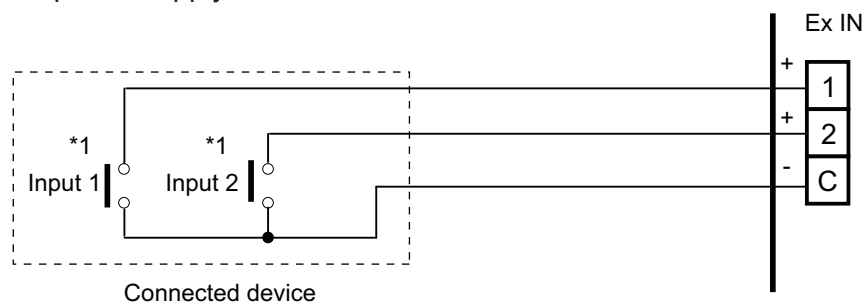
The indoor unit Operation/Stop can be set by using the input terminal on the PCB.

#### Input select

Use either one of these types of terminal according to the application. (Both types of terminal cannot be used simultaneously.)

##### – Dry contact

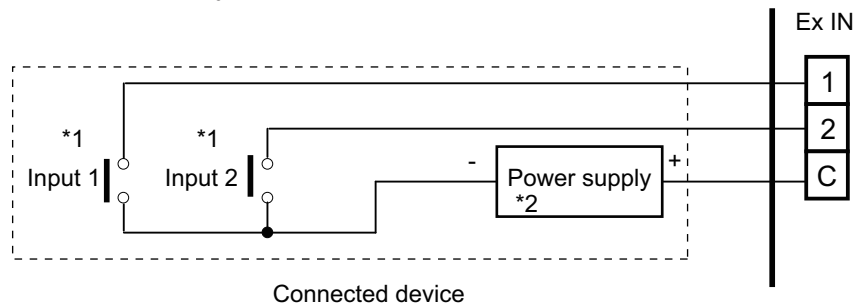
In case of internal power supply, set the slide switch of SW1 to “NON VOL” side.



\*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

##### – Apply voltage

In case of external power supply, set the slide switch of SW1 to “VOL” side.



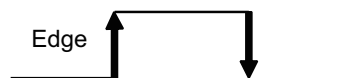
\*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

\*2: Make the power supply DC 12 V to 24 V, 10 mA or more.

## ■ Input signal type

- **Indoor unit**

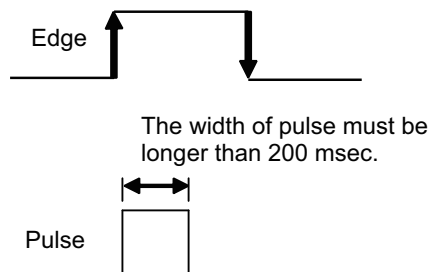
Input signal type is only "Edge".



- **External Input and Output PCB**

The input signal type can be selected.

Signal type (edge or pulse) can be switched by the DIP switch 2 (SW2) on the External Input and Output PCB.



**NOTE:** The input signal supports the following switch type:

- Edge: Alternate type switch
- Pulse: Momentary type switch

## 8-2. External output

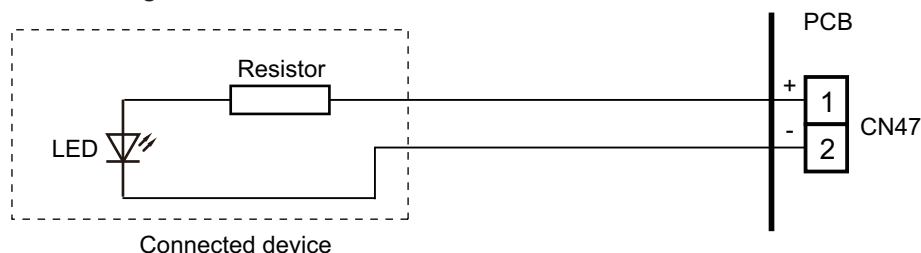
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

### Indoor unit

- A twisted pair cable (22 AWG) should be used. Maximum length of cable is 82 ft (25 m).
- Output voltage: High DC 12 V  $\pm$  2 V, Low 0 V.
- Permissible current: 50 mA
- For details, refer to ["Setting of external input and output"](#) on page 38.

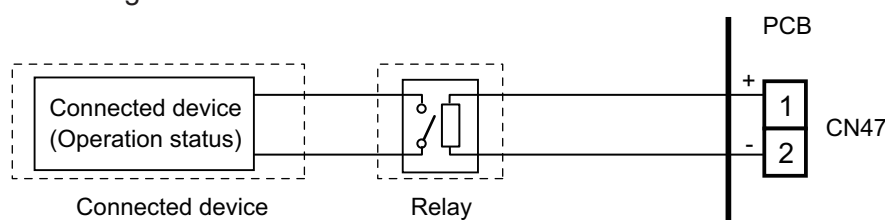
#### When indicator, etc. are connected directly

**Example:** Function setting number 60 is set to "00"



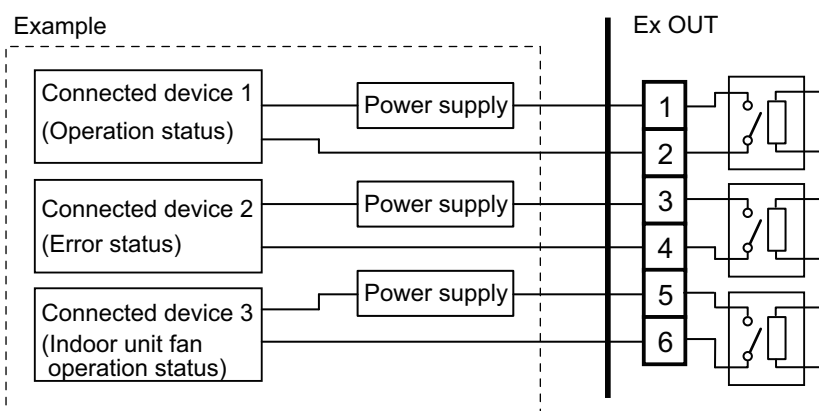
#### When connecting with a device equipped with a power supply

**Example:** Function setting number 60 is set to "00"



### External Input and Output PCB

- A twisted pair cable (22 AWG) should be used.
- Permissible voltage and current: DC 5 V to 30 V/3 A, AC 30 V to 250 V/3 A
- For details, refer to ["Setting of external input and output"](#) on page 38.



## 8-3. Setting of external input and output

- Indoor unit

| Input            |                            |                       |
|------------------|----------------------------|-----------------------|
| Connection point | Function setting number 46 | Function              |
| Terminal         | 00                         | Operation/Stop mode 1 |
|                  | 01                         | (Setting prohibited)  |
|                  | 02                         | Forced stop mode      |
|                  | 03                         | Operation/Stop mode 2 |

| Output           |                            |                                  |
|------------------|----------------------------|----------------------------------|
| Connection point | Function setting number 60 | Function                         |
| CN47             | 00                         | Operation/Stop                   |
|                  | 01—04                      | Cooling thermostat On            |
|                  | 05                         | Heating thermostat On            |
|                  | 06                         | Operation/Stop                   |
|                  | 07—08                      | Cooling thermostat On            |
|                  | 09                         | Error status                     |
|                  | 10                         | Indoor unit fan operation status |
|                  | 11                         | External heater output           |

# • External Input and Output PCB

| Switch setting |        | Ex IN                   |               | Ex OUT                  |                                  |                                  |
|----------------|--------|-------------------------|---------------|-------------------------|----------------------------------|----------------------------------|
| Rotary switch  | SW2    | 1                       | 2             | 1                       | 2                                | 3                                |
| 1              | Edge   | Operation/Stop          | Not available | Operation/Stop          | Error status                     | Indoor unit fan operation status |
|                | Pulse  | Operation               | Stop          |                         |                                  |                                  |
| 2              | Edge*1 | Forced thermostat off   | Not available | Error status            | Indoor unit fan operation status | External heater output           |
| 3              |        | Mechanical cooling off  | Not available | Error status            | Indoor unit fan operation status | External heater output           |
| 4              |        | Forced thermostat off   | Not available | Error status            | Operation/Stop                   | External heater output           |
| 5              |        | Mechanical cooling on*2 | Not available | Cooling high/low output | Operation/Stop                   | External heater output           |
| 6              |        | Mechanical cooling on*2 | Not available | Error status            | Operation/Stop                   | Cooling high/low output          |
| 7              |        | Forced thermostat off   | Not available | Error status            | Indoor unit fan operation status | External heater output           |
| 8              |        | Forced thermostat off   | Not available | Error status            | Indoor unit fan operation status | Heating thermostat on            |
| 9              |        | Mechanical cooling off  | Not available | Error status            | Heating thermostat on            | External heater output           |
| A              |        | Forced thermostat off   | Not available | Heating thermostat on   | Operation/Stop                   | External heater output           |
| B              |        | Forced thermostat off   | Not available | Operation/Stop          | Indoor unit fan operation status | External heater output           |
| C              |        | Forced thermostat off   | Not available | Operation/Stop          | Error status                     | External heater output           |
| D              |        | Forced thermostat off   | Not available | Operation/Stop          | Indoor unit fan operation status | Error status                     |

## NOTES:

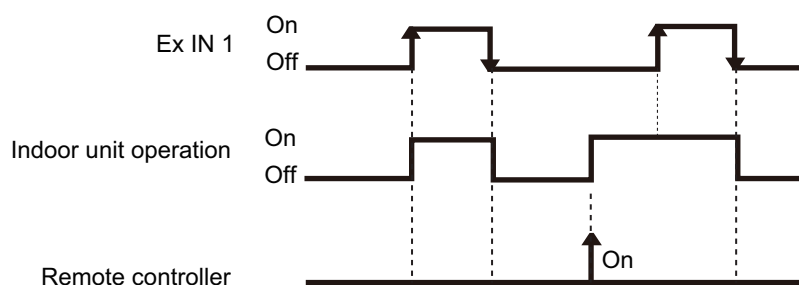
- When the rotary switch is selected to "1", the operation of the terminal input of the indoor unit and the External Input and Output PCB input are the same. The operation content depends on the setting of function setting number 46.
- \*1: The external input other than "Operation/Stop" is available only when the SW2 is set to "Edge".
- \*2: The external input of "Mechanical cooling on" is available only when the function setting number 60 is set to "03" or "04".

## 8-4. Details of control input function

### ■ Operation/Stop mode 1

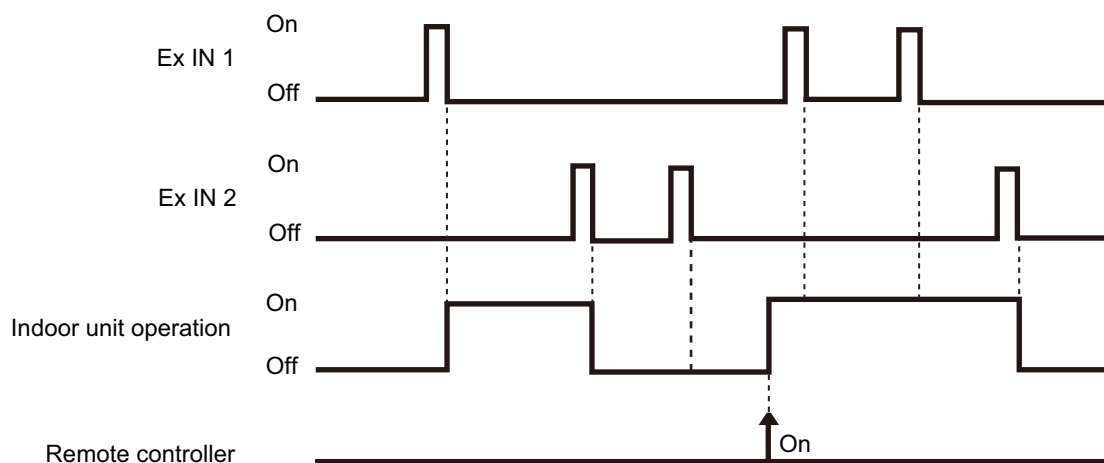
- In the case of "Edge" input

| Function setting | External Input and Output PCB |      | External input                |          | Input signal | Command   |
|------------------|-------------------------------|------|-------------------------------|----------|--------------|-----------|
|                  | Rotary switch                 | SW2  |                               |          |              |           |
| 46-00            | —                             |      | Input of indoor unit          | Terminal | Off → On     | Operation |
|                  | —                             |      | Input of indoor unit          | Terminal | On → Off     | Stop      |
|                  | 1                             | Edge | External Input and Output PCB | Ex IN 1  | Off → On     | Operation |
|                  |                               |      |                               |          | On → Off     | Stop      |



- In the case of "Pulse" input

| Function setting | External Input and Output PCB |       | External input                |         | Input signal | Command   |
|------------------|-------------------------------|-------|-------------------------------|---------|--------------|-----------|
|                  | Rotary switch                 | SW2   |                               |         |              |           |
| 46-00            | 1                             | Pulse | External Input and Output PCB | Ex IN 1 | Pulse        | Operation |
|                  |                               |       |                               | Ex IN 2 |              | Stop      |



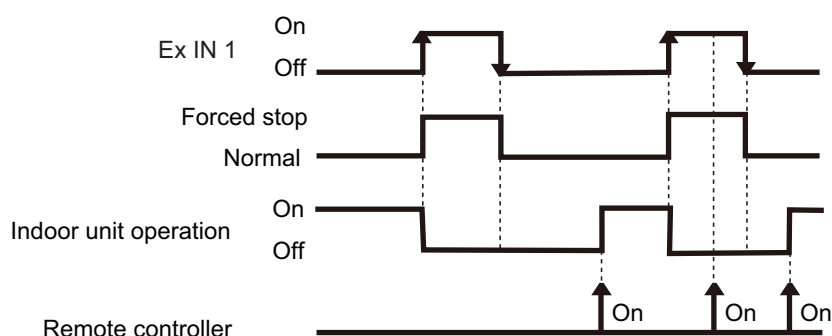
#### NOTES:

- The last command has priority.
- The indoor units within the same remote controller group operates in the same mode.

## ■ Forced stop

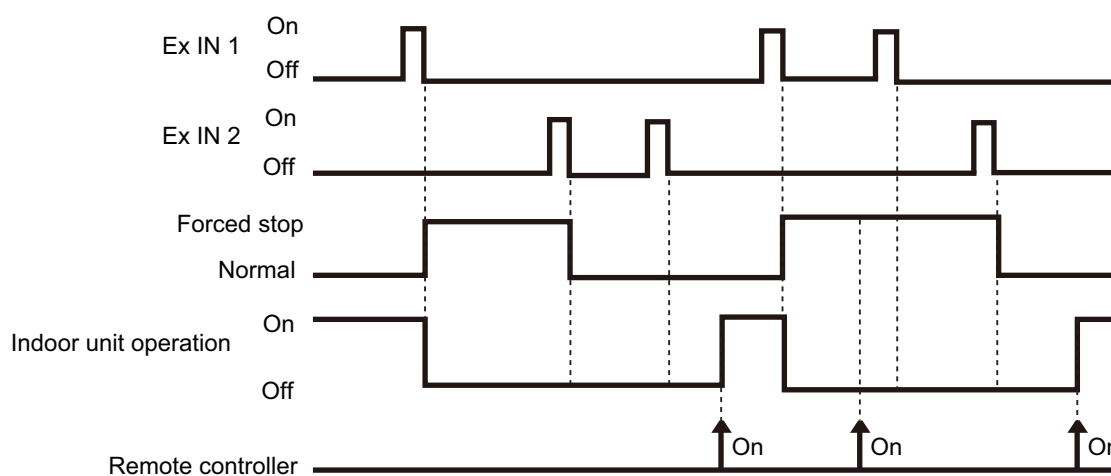
- In the case of "Edge" input

| Function setting | External Input and Output PCB |      | External input                |          | Input signal | Command                     |
|------------------|-------------------------------|------|-------------------------------|----------|--------------|-----------------------------|
|                  | Rotary switch                 | SW2  |                               |          |              |                             |
| 46-02            | —                             |      | Input of indoor unit          | Terminal | Off → On     | Forced stop (R.C. disabled) |
|                  |                               |      |                               |          | On → Off     | Normal (R.C. enabled)       |
|                  | 1                             | Edge | External Input and Output PCB | Ex IN 1  | Off → On     | Forced stop (R.C. disabled) |
|                  |                               |      |                               |          | On → Off     | Normal (R.C. enabled)       |



- In the case of "Pulse" input

| Function setting | External Input and Output PCB |       | External input                |         | Input signal | Command                     |
|------------------|-------------------------------|-------|-------------------------------|---------|--------------|-----------------------------|
|                  | Rotary switch                 | SW2   |                               |         |              |                             |
| 46-02            | 1                             | Pulse | External Input and Output PCB | Ex IN 1 | Pulse        | Forced stop (R.C. disabled) |
|                  |                               |       |                               | Ex IN 2 |              | Normal (R.C. enabled)       |



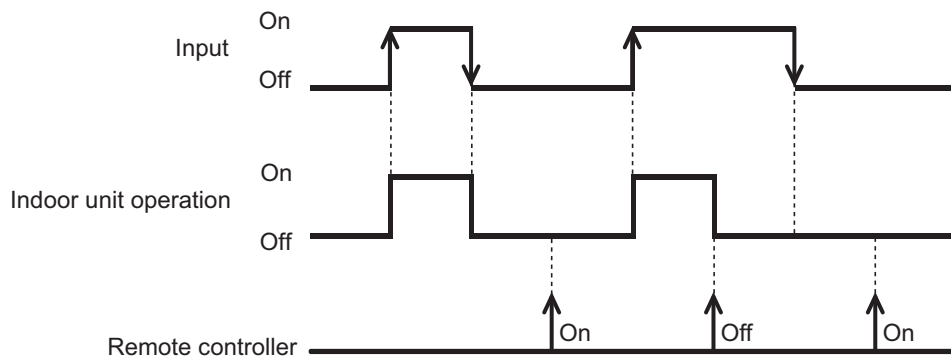
### NOTES:

- When the forced stop is triggered, indoor unit stops and Operation/Stop operation by the remote controller is restricted.
- When forced stop function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

## ■ Operation/Stop mode 2

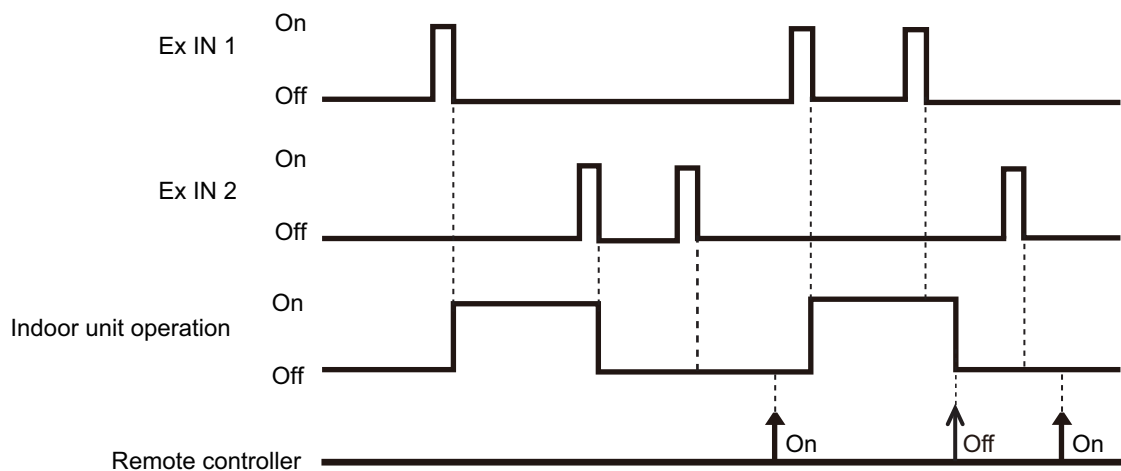
- In the case of "Edge" input

| Function setting | External Input and Output PCB |      | External input                |          | Input signal | Command                  |
|------------------|-------------------------------|------|-------------------------------|----------|--------------|--------------------------|
|                  | Rotary switch                 | SW2  |                               |          |              |                          |
| 46-03            | —                             |      | Input of indoor unit          | Terminal | Off → On     | Operation (R.C. enabled) |
|                  | —                             |      | Input of indoor unit          | Terminal | On → Off     | Stop (R.C. disabled)     |
|                  | 1                             | Edge | External Input and Output PCB | Ex IN 1  | Off → On     | Operation (R.C. enabled) |
|                  | 1                             | Edge | External Input and Output PCB | Ex IN 1  | On → Off     | Stop (R.C. disabled)     |



- In the case of "Pulse" input

| Function setting | External Input and Output PCB |       | External input                |         | Input signal | Command                  |
|------------------|-------------------------------|-------|-------------------------------|---------|--------------|--------------------------|
|                  | Rotary switch                 | SW2   |                               |         |              |                          |
| 46-03            | 1                             | Pulse | External Input and Output PCB | Ex IN 1 | Pulse        | Operation (R.C. enabled) |
|                  |                               |       |                               | Ex IN 2 |              | Stop (R.C. disabled)     |

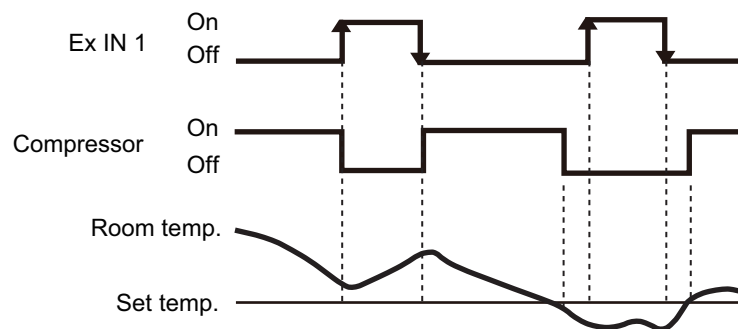


**NOTE:** When "Operation/Stop" mode 2 function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.



## ■ Forced thermostat off

| External Input and Output PCB | External input                |         | Input signal | Command          |
|-------------------------------|-------------------------------|---------|--------------|------------------|
| Rotary switch                 |                               |         |              |                  |
| 2, B, C, D                    | External Input and Output PCB | Ex IN 1 | Off → On     | Thermostat off   |
|                               |                               |         | On → Off     | Normal operation |
| 4, 7, 8, A                    | External Input and Output PCB | Ex IN 1 | Off → On     | Thermostat off   |
|                               |                               |         | On → Off     | Normal operation |

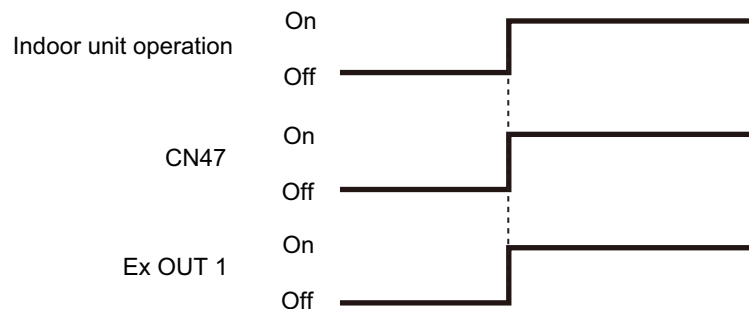


## 8-5. Details of control output function

### ■ Operation status

| Function setting | External Input and Output PCB | External output               |          | Output signal | Status    |
|------------------|-------------------------------|-------------------------------|----------|---------------|-----------|
|                  | Rotary switch                 |                               |          |               |           |
| 60-00<br>60-06   | —                             | Output of indoor unit         | CN47     | Off → On      | Operation |
|                  |                               |                               |          | On → Off      | Stop      |
| —                | 1, B, C, D                    | External Input and Output PCB | Ex OUT 1 | Off → On      | Operation |
|                  |                               |                               |          | On → Off      | Stop      |

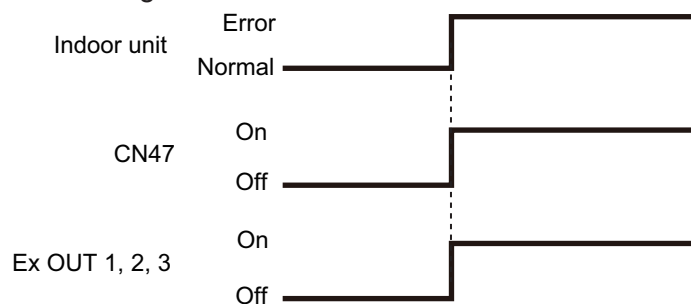
The output is low when the unit is stopped.



### ■ Error status

| Function setting | External Input and Output PCB | External output               |          | Output signal | Status |
|------------------|-------------------------------|-------------------------------|----------|---------------|--------|
|                  | Rotary switch                 |                               |          |               |        |
| 60-09            | —                             | Output of indoor unit         | CN47     | Off → On      | Error  |
|                  |                               |                               |          | On → Off      | Normal |
| —                | 2, 3, 4, 6, 7, 8, 9           | External Input and Output PCB | Ex OUT 1 | Off → On      | Error  |
|                  |                               |                               |          | On → Off      | Normal |
| —                | 1, C                          | External Input and Output PCB | Ex OUT 2 | Off → On      | Error  |
|                  |                               |                               |          | On → Off      | Normal |
| —                | D                             | External Input and Output PCB | Ex OUT 3 | Off → On      | Error  |
|                  |                               |                               |          | On → Off      | Normal |

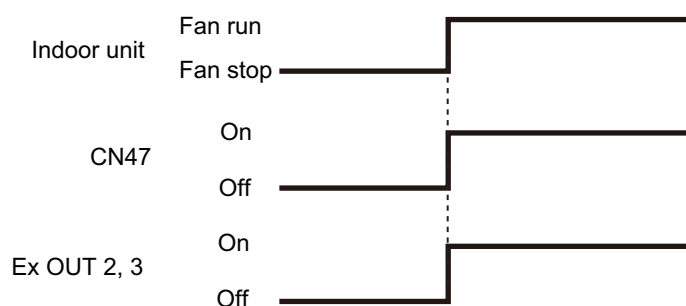
The output is on when an error is generated for the indoor unit.



## Indoor unit fan operation status

| Function setting | External Input and Output PCB | External output               |          | Output signal | Status   |
|------------------|-------------------------------|-------------------------------|----------|---------------|----------|
|                  | Rotary switch                 |                               |          |               |          |
| 60-10            | —                             | Output of indoor unit         | CN47     | Off → On      | Fan run  |
|                  |                               |                               |          | On → Off      | Fan stop |
| —                | 2, 3, 7, 8, B, D              | External Input and Output PCB | Ex OUT 2 | Off → On      | Fan run  |
|                  |                               |                               |          | On → Off      | Fan stop |
| —                | 1                             | External Input and Output PCB | Ex OUT 3 | Off → On      | Fan run  |
|                  |                               |                               |          | On → Off      | Fan stop |

| Output signal | Condition  |
|---------------|--|
| On            | The indoor unit fan is operating.  |
| Off           | The fan is stopped or during cold air prevention.<br>During thermostat off when in dry mode operation. |



## External heater output

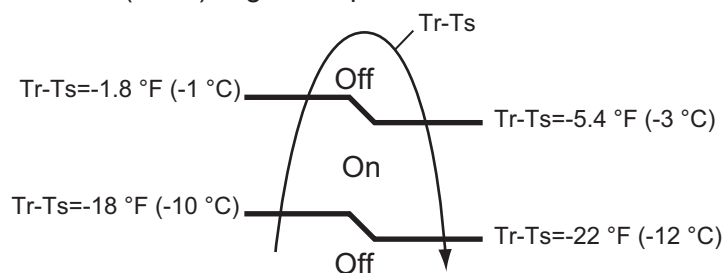
| Function setting | External Input and Output PCB | External output               |          | Output signal | Control    |
|------------------|-------------------------------|-------------------------------|----------|---------------|------------|
|                  | Rotary switch                 |                               |          |               |            |
| 60-11            | —                             | Output of indoor unit         | CN47     | Off → On      | Heater on  |
|                  |                               |                               |          | On → Off      | Heater off |
| —                | 2, B, C                       | External Input and Output PCB | Ex OUT 3 | Off → On      | Heater on  |
|                  |                               |                               |          | On → Off      | Heater off |

| Output signal | Condition   |
|---------------|---|
| Off → On      | Heater turns on as shown in diagram of heating temperature  |
| On → Off      | Heater turns off as shown in diagram of heating temperature <ul style="list-style-type: none"> <li>• Other than Heating mode</li> <li>• Error occurred</li> <li>• Forced thermo off</li> <li>• Fan stop protection</li> </ul> |

Specifications of the signal output performance are as shown as follows:

**Example:** When set temperature ( $T_s$ ) is set at 72°F (22°C);

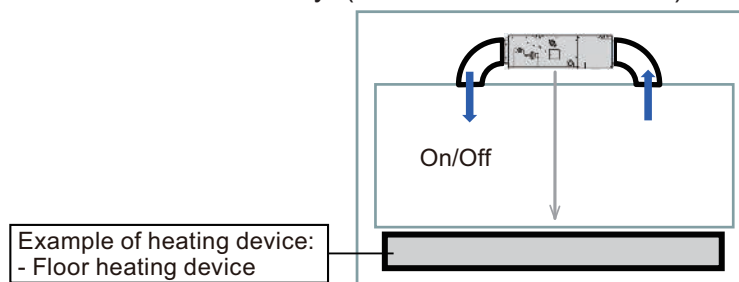
- And room temperature ( $T_r$ ) increase above 53.6°F (12°C), signal output is on.
- And  $T_r$  increase above 69.8°F (21°C), signal output is off.
- And  $T_r$  decrease below 66.2°F (19°C), signal output is on.
- And  $T_r$  decrease below 50°F (10°C), signal output is off.



The output also turns off in defrost operation.

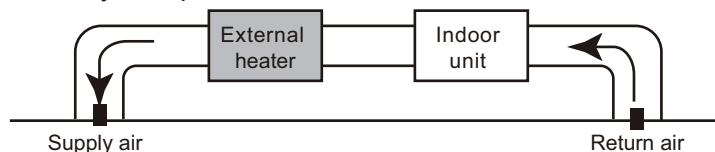
## ● Installation configuration of individual connection

External heating device is installed individually. (No use of indoor unit fan)

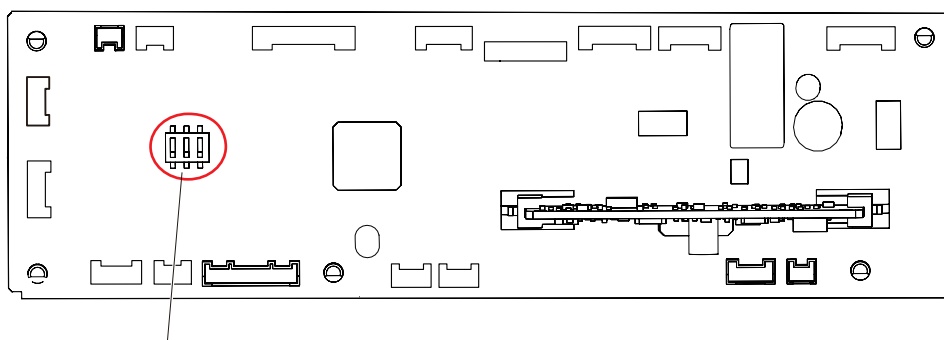


### ⚠ WARNING

- **DIP Switch 101-3 must be in the ON position when ducted electric heat application is being used.** DIP switch 101-3 is set in the OFF position by default from the factory. When DIP switch 101-3 is in the ON position and ducted electric heat application is not being used, cold draft occurs due to fan delay off operation.



| Operation  |   |          | Condition  |
|------------|---|----------|--|
| Heater off | DIP-SW101-3                                 | On       | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | Indoor unit fan setting for external heater | Enabled  |  |
| Heater off | DIP-SW101-3                                 | Off      | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |
|            | Indoor unit fan setting for external heater | Disabled |  |

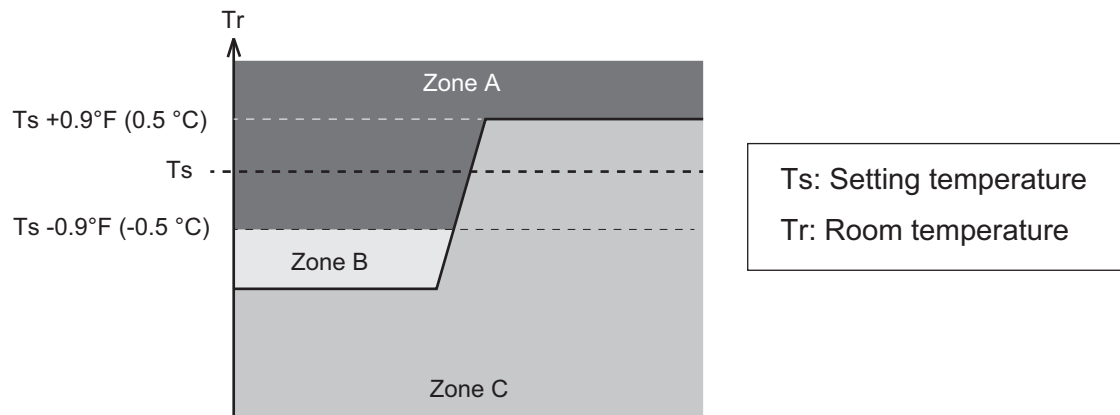


DIP switch 101

- Design and install external heater appropriately with considering its protection.
- Inappropriate designing and installation of external heater may cause a fire by emitted heat from the external heater.
- Fujitsu General Ltd. is not responsible for inappropriate designing or installation of external heating device.

## ● Auxiliary equipment control by room temperature

Auxiliary equipment control is switchable by room temperature. Auxiliary equipment switching is performed for each room temperature divided to following 3 zones.



| Zone | Application  | When temperature dropping |                   | When temperature rising |                  |
|------|--|---------------------------|-------------------|-------------------------|------------------|
|      |  | Primary                   | Auxiliary         | Primary                 | Auxiliary        |
| A    | Both of primary and auxiliary equipment is unnecessary.  | Off                       | Off               | Off                     | Off              |
| B    | Primary heater only. When room temperature stays in zone B for a long time, auxiliary equipment also operates. | On                        | Off* <sup>1</sup> | —                       | —                |
| C    | Auxiliary equipment also operates.   | On                        | On* <sup>2</sup>  | On                      | On* <sup>2</sup> |

\*1: For standby time for auxiliary equipment operation, refer to indoor unit function number 71 "[Contents of function setting](#)" on page 67.

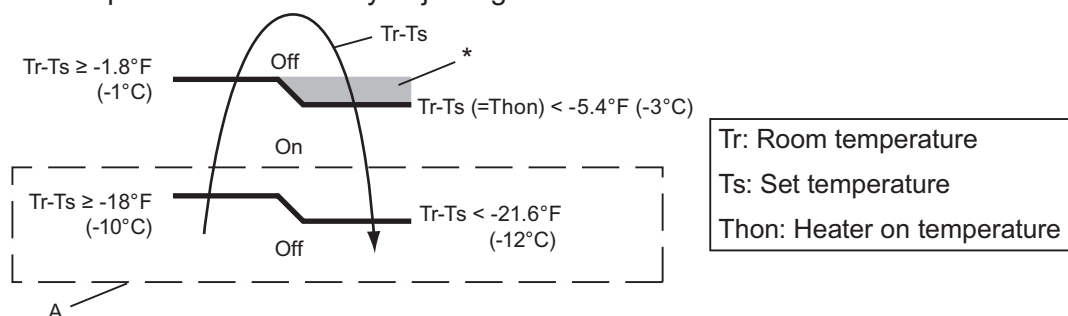
\*2: When indoor unit function number 61 is set to "00", auxiliary equipment operates according to the following conditions.

- $T_s - T_r > 21.6^{\circ}\text{F}$  ( $-12.0^{\circ}\text{C}$ ): Auxiliary equipment turn off.
- $T_s - T_r > 18.0^{\circ}\text{F}$  ( $-10.0^{\circ}\text{C}$ ): Auxiliary equipment turn on.

## ● Auxiliary heater control 1

| Operation  | Condition  |
|------------|--|
| Heater on  | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | <ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Fan stop protection</li> </ul> |

- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".



\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

**Example:** When set temperature (Ts) is 72°F (22°C) (Factory setting),

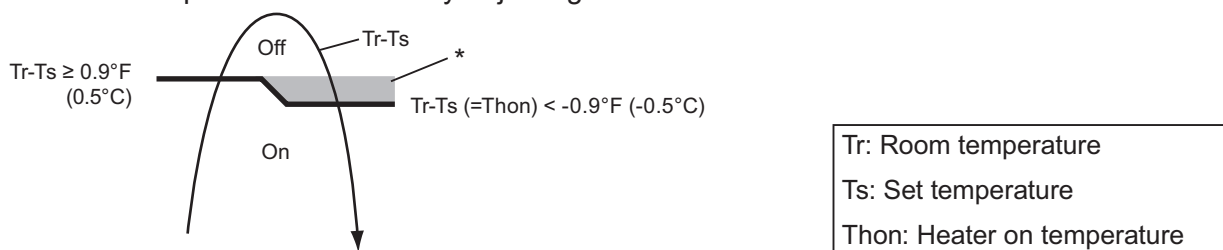
- and room temperature (Tr) increases above 53.6°F (12°C), signal output is on.
- and room temperature (Tr) increases above 69.8°F (21°C), signal output is off.
- and room temperature (Tr) decreases below 66.2°F (19°C), signal output is on.
- and room temperature (Tr) decreases below 50°F (10°C), signal output is off.

## ● Auxiliary heater control 2

Control that excludes "A" from "Auxiliary heater control 1" on page 49.

| Operation  | Condition  |
|------------|--|
| Heater on  | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | <ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Fan stop protection</li> </ul> |

- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".



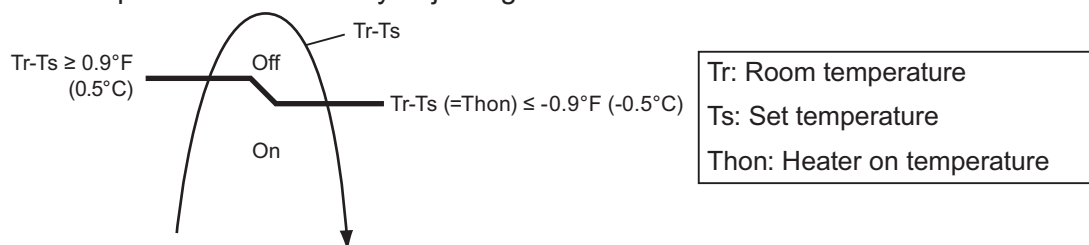
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

## ● Heat pump prohibition control

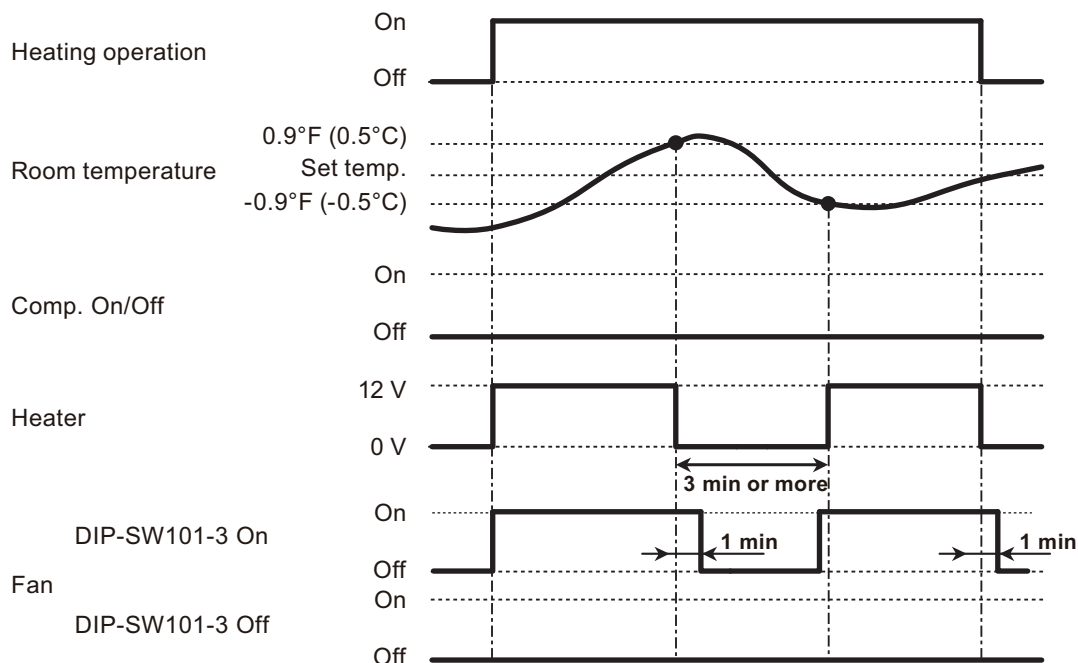
Perform heating by external heater only. Indoor unit is continuous thermostat off.

| Operation  |  |                 | Condition  |
|------------|--|-----------------|--|
| Heater on  |  |                 | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3 On<br>Indoor unit fan setting for external heater  | On<br>Enabled   | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | DIP-SW101-3 Off<br>Indoor unit fan setting for external heater | Off<br>Disabled | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |

- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".



### • Operation status



**NOTE:** In following operations, compressor will be on.

- Other than heating
- Test run



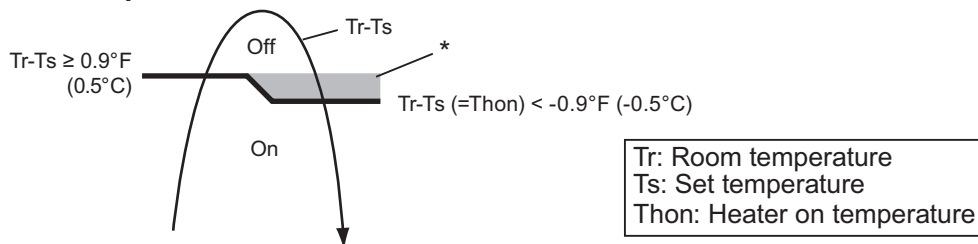
## ● Auxiliary heater control by outdoor temperature 1

This control selects heat pump or external heater according to the outdoor temperature. When outdoor temperature is high, the heating is performed by using heat pump only.

| Operation  |  |          | Condition   |
|------------|--|----------|---|
| Heater on  |  |          | Heater is on as shown in following diagram of heating temperature.  |
| Heater off | DIP-SW101-3<br>On  | Enabled  | <ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Heat pump only zone</li> <li>Fan stop protection</li> </ul> |
|            | DIP-SW101-3<br>Indoor unit fan setting for external heater | Disabled | <ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Heat pump only zone</li> </ul>                              |

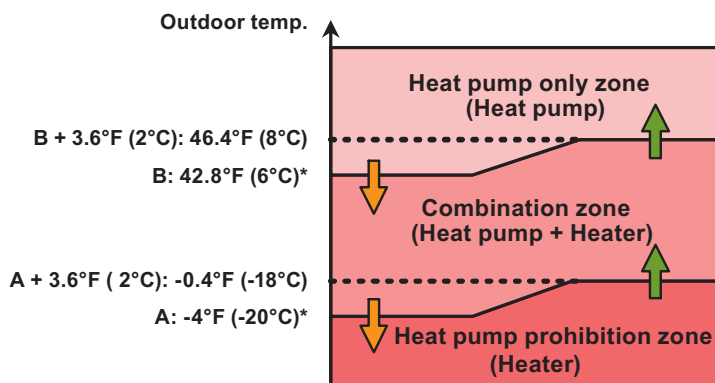
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".
- Outdoor temperature zone boundary A and B: Adjustable individually by function setting number 66 and 67.

### • External heater output



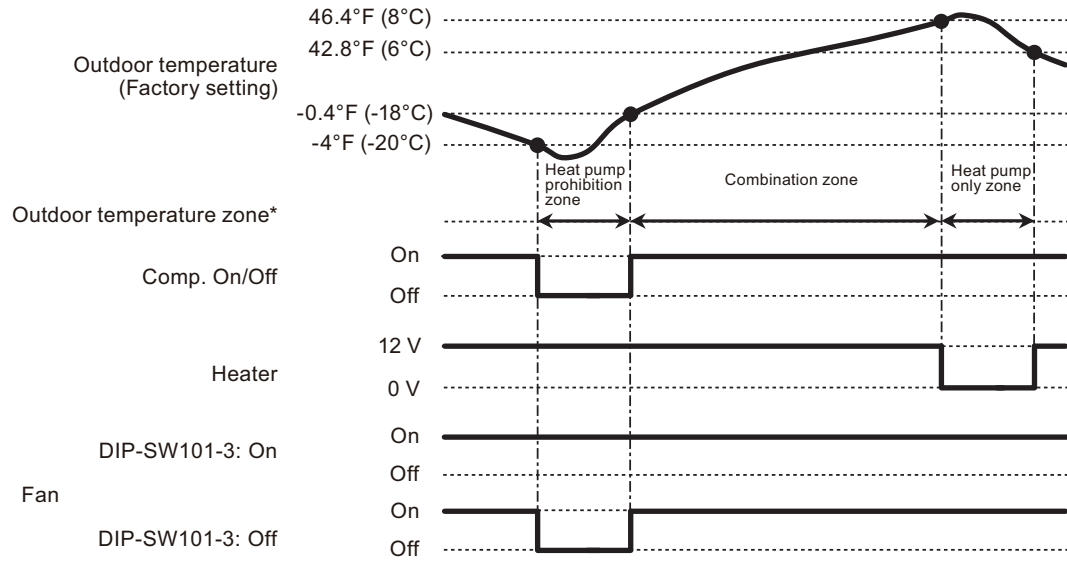
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

### • Outdoor temperature zone



\*: Adjustable by function setting 66 and 67

# • Operation status



\*: The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

- Other than heating
- Test run

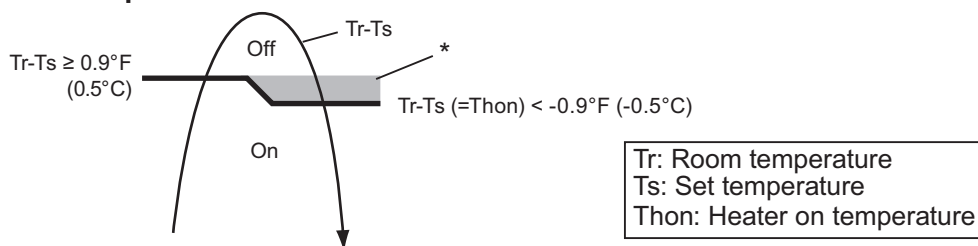
## ● Auxiliary heater control by outdoor temperature 2

This control selects heat pump or external heater according to the outdoor temperature. Even when outdoor temperature is high, the heating is performed by using both of heat pump and external heater.

| Operation  |  |                     | Condition  |
|------------|--|---------------------|--|
| Heater on  |  |                     | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3<br>Indoor unit fan<br>setting for<br>external heater | On<br><br>Enabled   | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | DIP-SW101-3<br>Indoor unit fan<br>setting for<br>external heater | Off<br><br>Disabled | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |

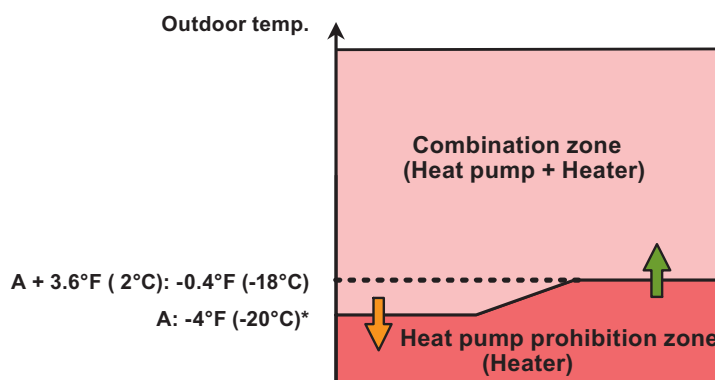
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting "Thon".
- Outdoor temperature zone boundary A: Adjustable by function setting number 66.

### • External heater output



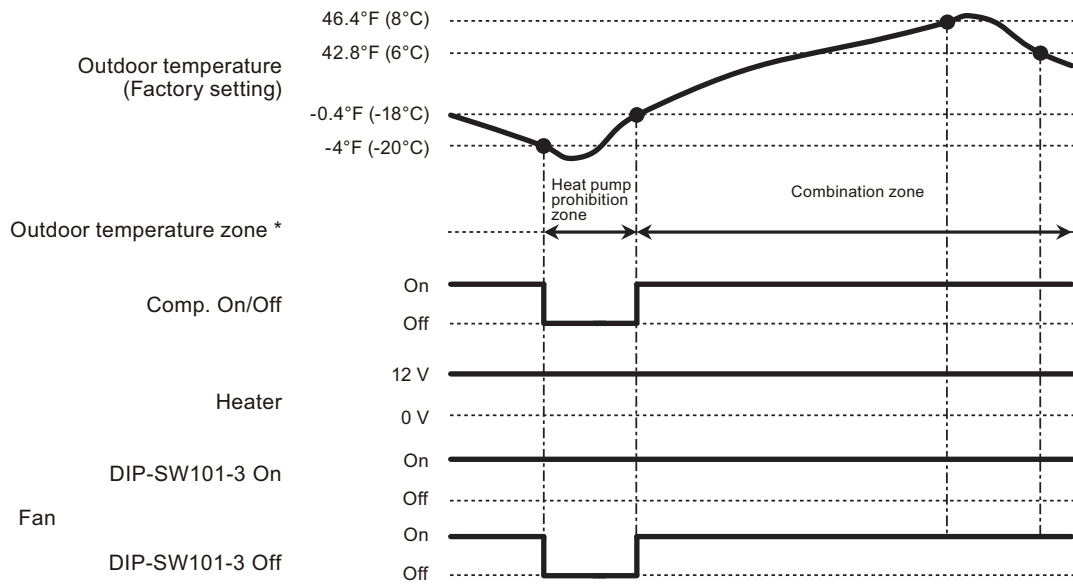
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

### • Outdoor temperature zone



\*: Adjustable by function setting 66

# - Operation status



\* The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

- Other than heating
- Test run

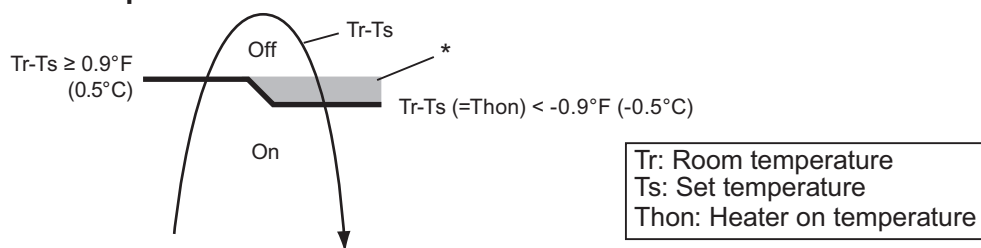
## ● Auxiliary heater control by outdoor temperature 3

This control selects heat pump or external heater according to the outdoor temperature. Even when outdoor temperature is high, the heating is performed by using both of heat pump and external heater.

| Operation  |  |                     | Condition  |
|------------|--|---------------------|--|
| Heater on  |  |                     | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3<br>Indoor unit fan setting for external heater | On<br><br>Enabled   | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | DIP-SW101-3<br>Indoor unit fan setting for external heater | Off<br><br>Disabled | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |

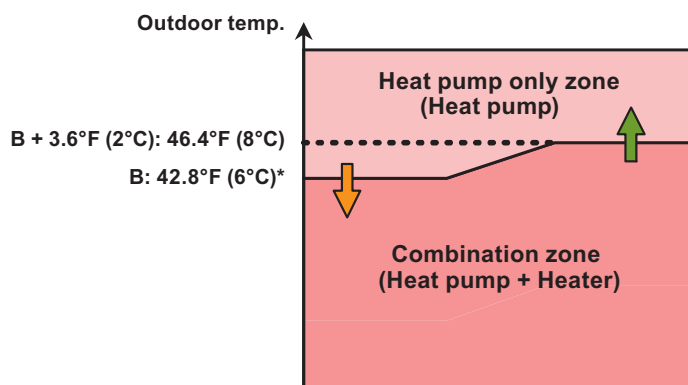
- Temperature of heater on (Thon): Adjustable by function number 62 (Operating temperature switching of external heaters).
- All control temperatures will shift by adjusting “Thon”.
- Outdoor temperature zone boundary B: Adjustable by function setting number 67.

### • External heater output



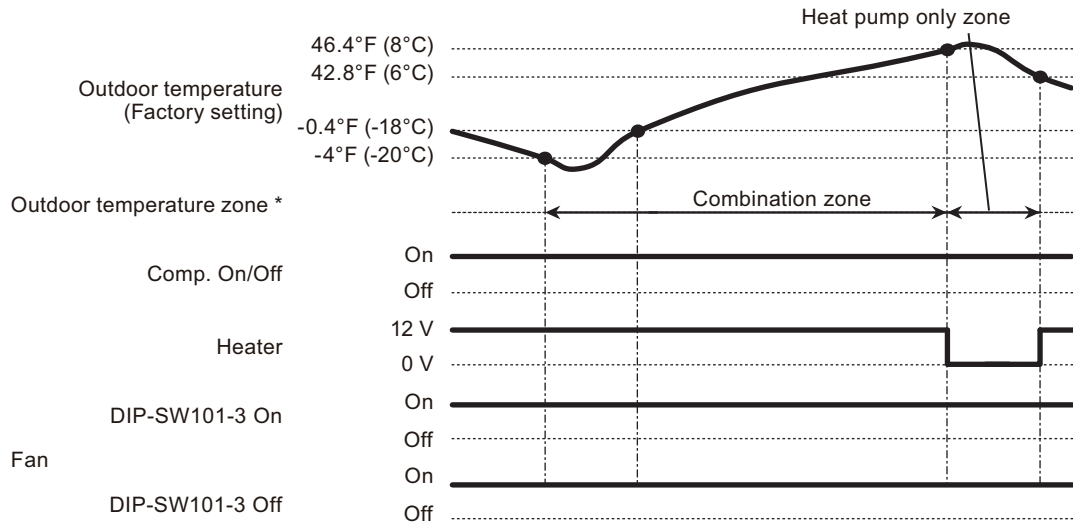
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

### • Outdoor temperature zone



\*: Adjustable by function setting 67

# • Operation status



\*: The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

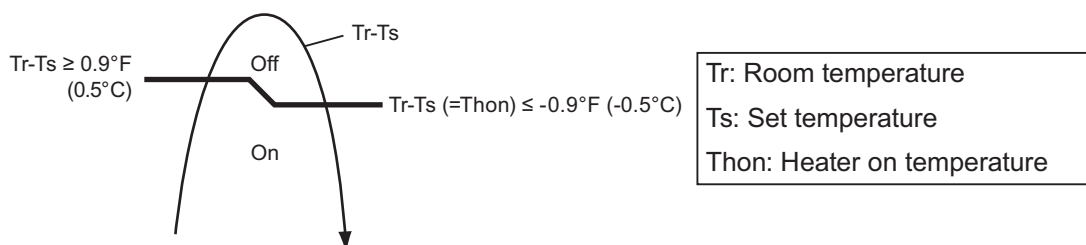
- Other than heating
- Test run

## ● Auxiliary heat pump control

### • External heater output

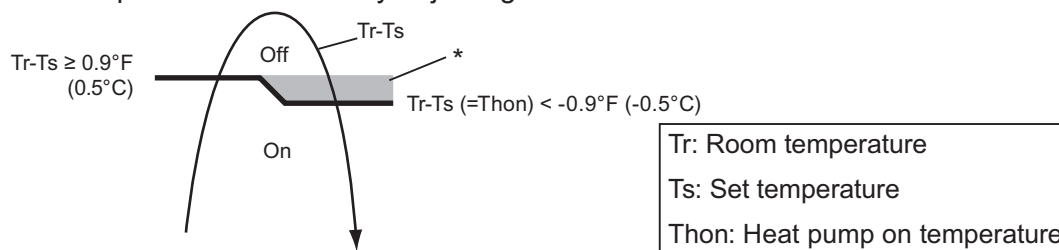
| Operation  |  |                     | Condition  |
|------------|--|---------------------|--|
| Heater on  |  |                     | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3<br>Indoor unit fan setting for external heater | On<br><br>Enabled   | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | DIP-SW101-3<br>Indoor unit fan setting for external heater | Off<br><br>Disabled | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |

- Temperature of heater on (Thon): Set temperature (Ts)  $-0.9^{\circ}\text{F}$  ( $-0.5^{\circ}\text{C}$ )
- Temperature of heater off: Set temperature (Ts)  $+0.9^{\circ}\text{F}$  ( $+0.5^{\circ}\text{C}$ )



### • Auxiliary heat pump On/Off

- Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
- All control temperatures will shift by adjusting “Thon”.



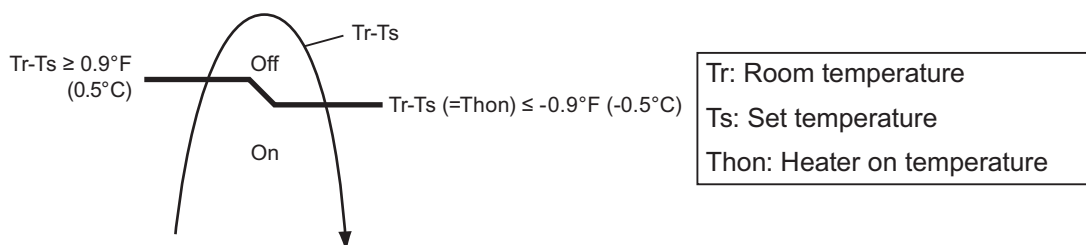
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

## ● Auxiliary heat pump control by outdoor temperature 1

### • External heater output

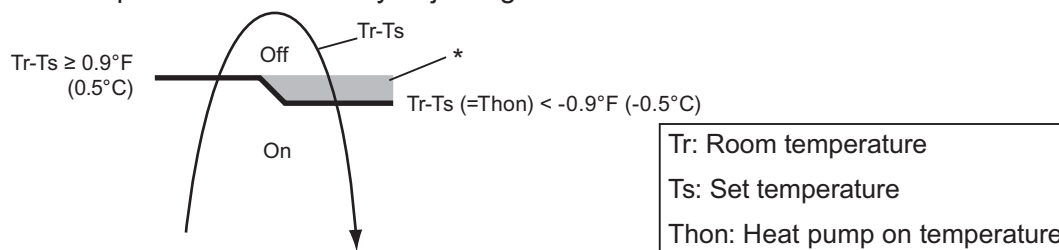
| Operation  |  |                     | Condition  |
|------------|--|---------------------|--|
| Heater on  |  |                     | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3<br>Indoor unit fan setting for external heater | On<br><br>Enabled   | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | DIP-SW101-3<br>Indoor unit fan setting for external heater | Off<br><br>Disabled | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |

- Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
- Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



### • Auxiliary heat pump On/Off

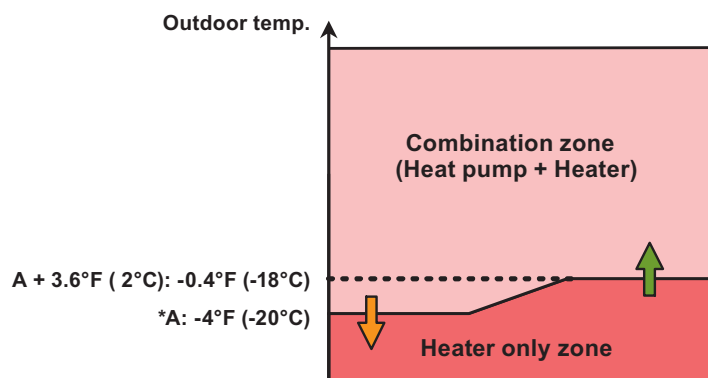
- Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
- All control temperatures will shift by adjusting “Thon”.



\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

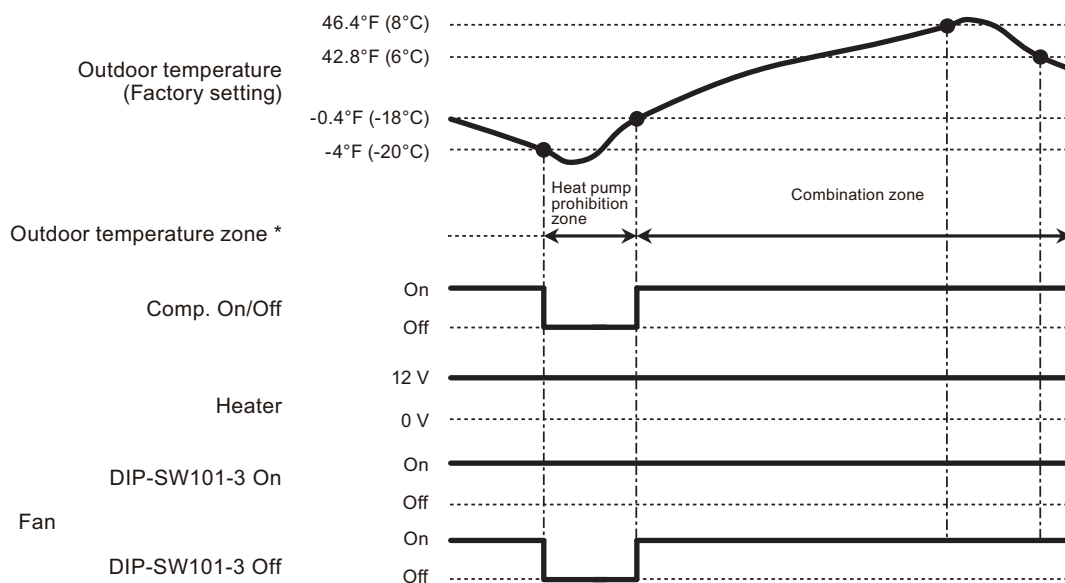


- Outdoor temperature zone



\*: Adjustable by function setting 66

- Operation status



\* The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

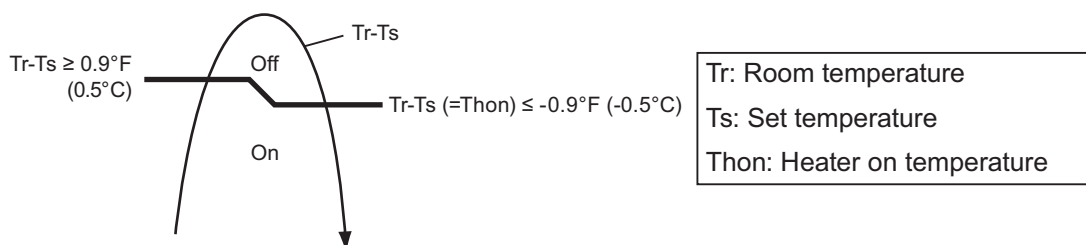
- Other than heating
- Test run

## ● Auxiliary heat pump control by outdoor temperature 2

### • External heater output

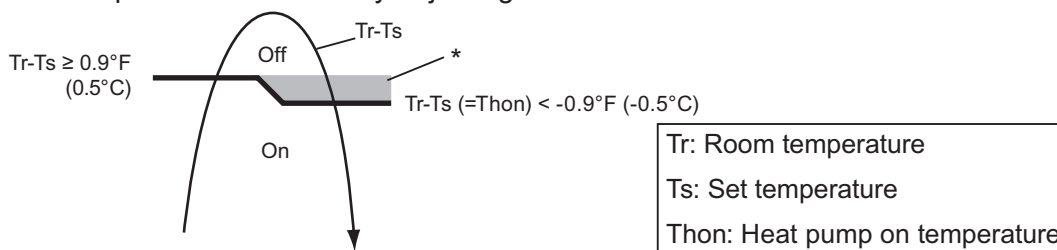
| Operation  |   |          | Condition  |
|------------|---|----------|--|
| Heater on  |   |          | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3                                 | On       | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> <li>• Fan stop protection</li> </ul> |
|            | Indoor unit fan setting for external heater | Enabled  |  |
|            | DIP-SW101-3                                 | Off      | <ul style="list-style-type: none"> <li>• Heater is off as shown in following diagram of heating temperature.</li> <li>• Other than heating mode</li> <li>• Error occurred</li> <li>• Forced thermostat off</li> </ul>                                |
|            | Indoor unit fan setting for external heater | Disabled |  |

- Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
- Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



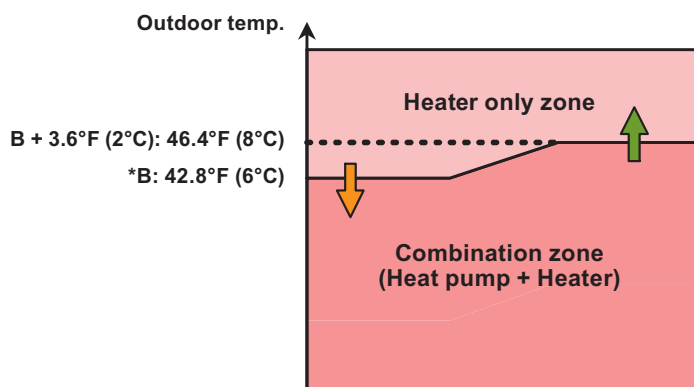
### • Auxiliary heat pump On/Off

- Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
- All control temperatures will shift by adjusting “Thon”.



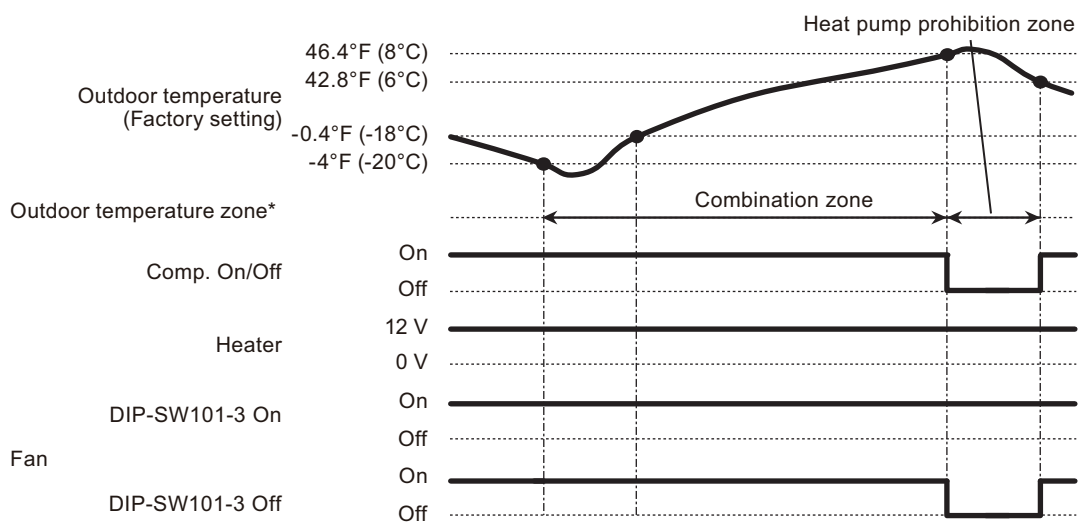
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- Outdoor temperature zone



\*: Adjustable by function setting 67

- Operation status



\*: The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

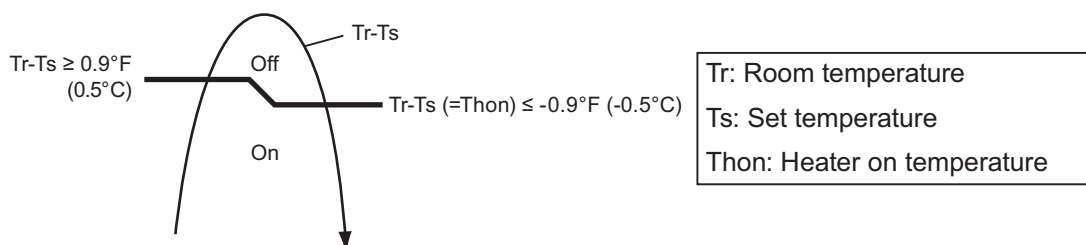
- Other than heating
- Test run

## ● Auxiliary heat pump control by outdoor temperature 3

### • External heater output

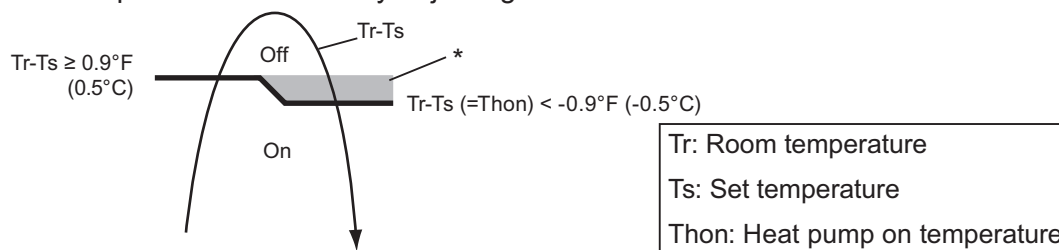
| Operation  |   |          | Condition  |
|------------|---|----------|--|
| Heater on  |   |          | Heater is on as shown in following diagram of heating temperature.   |
| Heater off | DIP-SW101-3                                 | On       | <ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> <li>Fan stop protection</li> </ul> |
|            | Indoor unit fan setting for external heater | Enabled  |  |
|            | DIP-SW101-3                                 | Off      | <ul style="list-style-type: none"> <li>Heater is off as shown in following diagram of heating temperature.</li> <li>Other than heating mode</li> <li>Error occurred</li> <li>Forced thermostat off</li> </ul>                              |
|            | Indoor unit fan setting for external heater | Disabled |  |

- Temperature of heater on (Thon): Set temperature (Ts) -0.9°F (-0.5°C)
- Temperature of heater off: Set temperature (Ts) +0.9°F (+0.5°C)



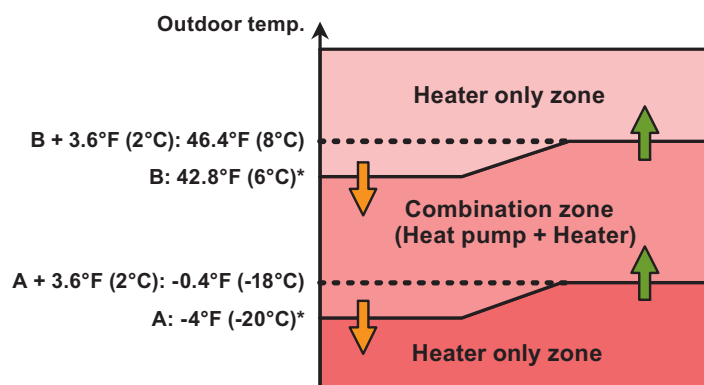
### • Auxiliary heat pump On/Off

- Temperature of heat pump on (Thon): Adjustable by function number 62 (Operating temperature switching of heat pump).
- All control temperatures will shift by adjusting “Thon”.



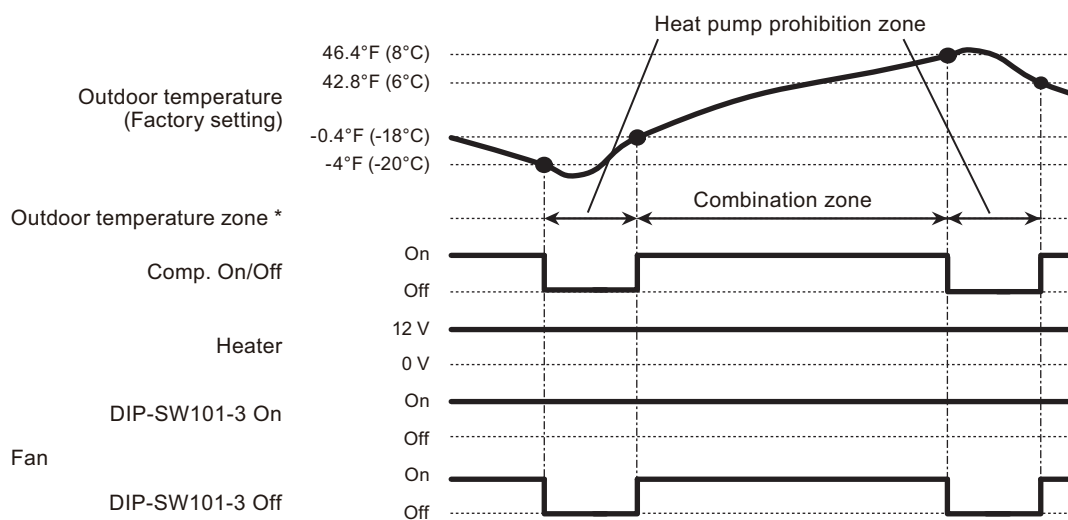
\*: When room temperature stays in this zone for a specific time, auxiliary heater is turned on. For details, refer to function number 71.

- Outdoor temperature zone



\*: Adjustable by function setting 66 and 67

- Operation status



\* The outdoor temperature zone transition from one to another will stay in that zone for minimum of 30 min.

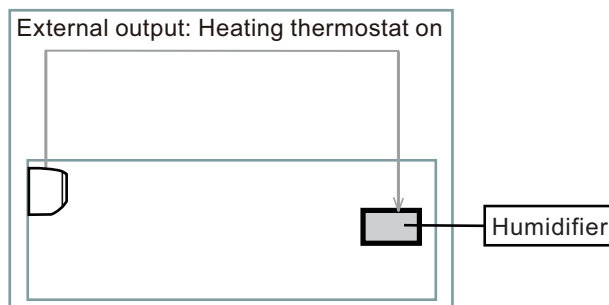
**NOTE:** In following operations, compressor will be on in heat pump prohibition zone.

- Other than heating
- Test run

## ■ Heating thermostat on for humidifier

| Situation                        | Indoor unit |                              |           |                       |                                  |
|----------------------------------|-------------|------------------------------|-----------|-----------------------|----------------------------------|
|                                  | Mode        | Function setting             | Rotary SW | External output       |                                  |
|                                  |             | Heating thermostat on no. 60 |           | Heating thermostat on | Indoor unit fan operation status |
| Example of individual connection | 5           | 60-05                        | 7         | CN47                  | Not used                         |
|                                  | 6           | 60-06                        | 8         | Output 3              |                                  |
|                                  | 7           | 60-07                        | 9         | Output 2              |                                  |
|                                  | 8           | 60-08                        | A         | Output 1              |                                  |

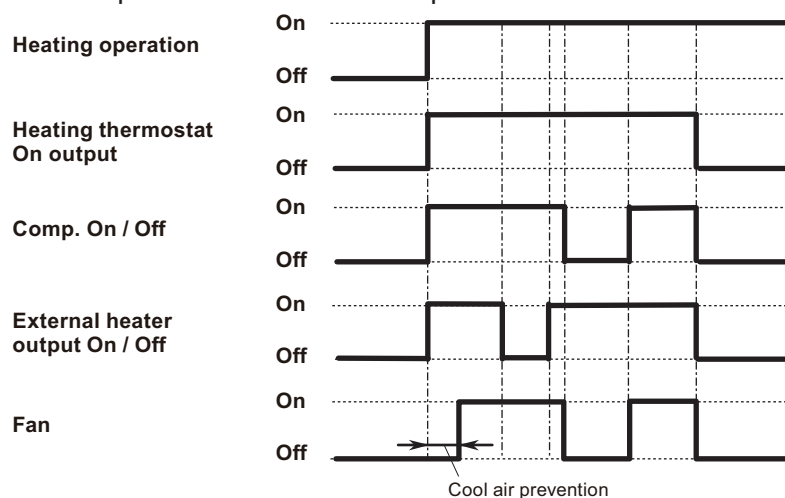
### • Example of individual connection



### • Operation status

The heating thermostat output for CN47, Output 1, Output 2, or Output 3 will be on when comp on or external heater on.

The heating thermostat output will be off when comp off and external heater off.



## 9. Group connection

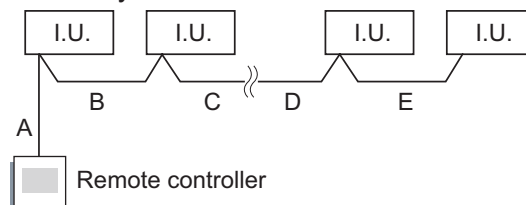
**NOTE:** Group control cannot be used together with WLAN Adapter.

### Installation procedure for group control system:

A number of indoor units can be operated at the same time using a single remote controller.

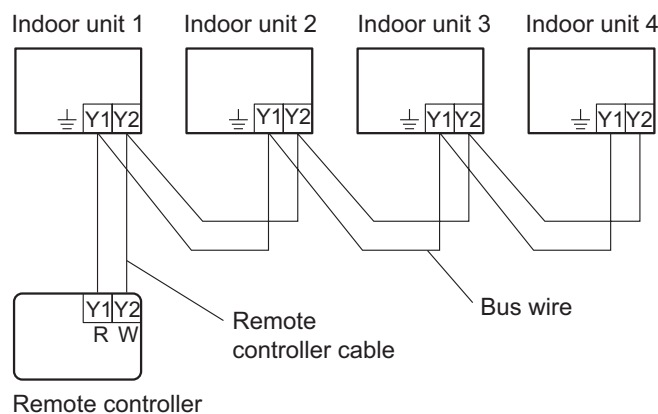
**NOTE:** When different type of indoor units (such as wall-mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.

1. Connect up to 16 indoor units in a system.



|  |   |
|--|---|
| A, B, C, D, E: Remote controller cable |   |
| Wiring length limitation               | $A + B + C + D + E \leq 546.8 \text{ yd (500 m)}$ |

Example of wiring method



2. Automatic address setting

After the remote controller connection in the system, the automatic address setting runs in the initial starting up. Do not change the remote controller address for the indoor unit.

## 10. Function settings

To adjust the functions of this product according to the installation environment, various types of function settings are available.

**NOTE:** Incorrect settings can cause a product malfunction.

### 10-1. Function settings on indoor unit (setting by DIP switch)

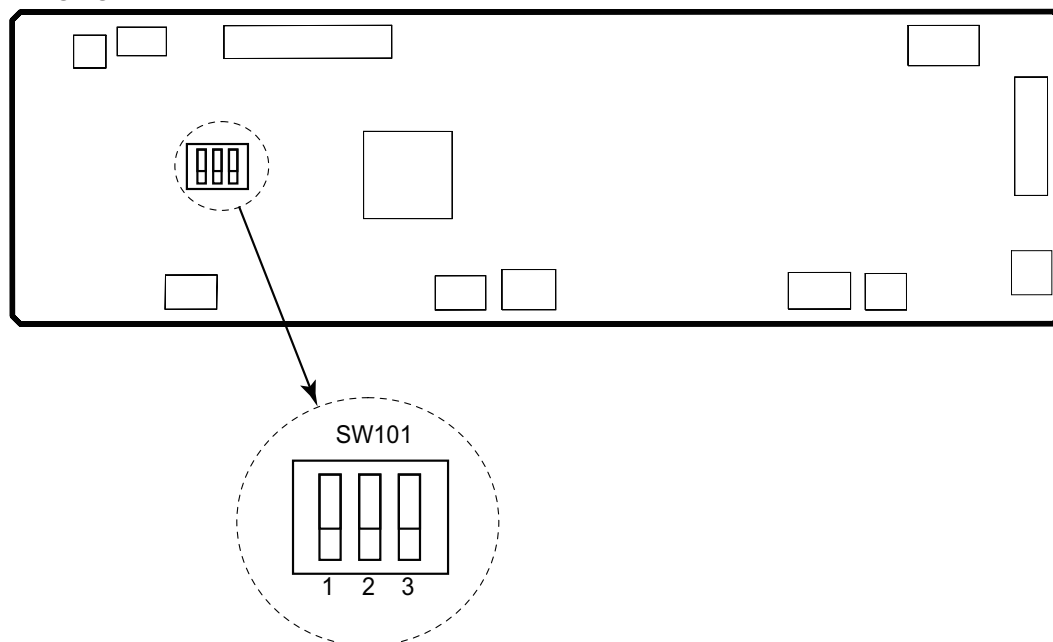
By using some components on the PCB, you can change the function settings.

**Related components on the PCB and the applicable settings**

| Component     |   | Setting content           |
|---------------|---|---------------------------|
| DIP switch101 | 1 | Setting change prohibited |
|               | 2 | Setting change prohibited |
|               | 3 | Fan delay setting         |

#### ● Component location

Components on the indoor unit main PCB used for the function settings are located as shown in the following figure.



#### ● DIP switch setting

- **Switch 1: Setting change prohibited (SW101)**
- **Switch 2: Setting change prohibited (SW101)**
- **Switch 3: Fan delay setting (SW101)**

When the indoor unit is stopped while operating in conjunction with auxiliary heater, the indoor unit fan operation will continue for 1 minute.

| Switch 3 | Fan delay | Factory setting |
|----------|-----------|-----------------|
| ON       | Enabled   |                 |
| OFF      | Disabled  | ◆               |



## 10-2. Function settings by using remote controller

Some function settings can be changed on the remote controller. After confirming the setting procedure and the content of each function setting, select appropriate functions for your installation environment.

### ■ Setting procedure by using remote controller

Remote controller is not attached for this product. For details of the installing remote controller, refer to following information.

- Overview information: Operating manual of the remote controller
- Setting procedure: Installation manual of the remote controller

### ■ Contents of function setting

Each function setting listed in this section is adjustable in accordance with the installation environment.

**NOTE:** Setting will not be changed if invalid numbers or setting values are selected.

### ● Function setting list

|     | Function no. | Functions   |
|-----|--------------|---|
| 1)  | 11           | Filter sign   |
| 2)  | 26           | Static pressure   |
| 3)  | 30/31        | Room temperature control for indoor unit sensor             |
| 4)  | 35/36        | Room temperature control for wired remote controller sensor |
| 5)  | 40           | Auto restart  |
| 6)  | 42           | Room temperature sensor switching                           |
| 7)  | 43           | Cold air prevention   |
| 8)  | 46           | External input control                                      |
| 9)  | 48           | Room temperature sensor switching (Aux.)                    |
| 10) | 49           | Indoor unit fan control for energy saving for cooling       |
| 11) | 60           | Switching functions for external output terminal            |
| 12) | 61           | Control switching of external heaters                       |
| 13) | 62           | Operating temperature switching of external heaters         |
| 14) | 66           | Outdoor temperature zone boundary temperature A             |
| 15) | 67           | Outdoor temperature zone boundary temperature B             |
| 16) | 71           | Standby time for auxiliary equipment operation              |
| 17) | 72           | Heat pump backup setting                                    |
| 18) | 73           | Emergency heat for external output terminal                 |
| 19) | 74           | Fan delay time  |
| 20) | 75           | External heater use in defrosting                           |
| 21) | 94           | Fixed operation mode switching                              |

#### 1) Filter sign

Select appropriate intervals for displaying the filter sign on the indoor unit according to the estimated amount of dust in the air of the room.

If the indication is not required, select "No indication" (03).

| Function number | Setting value | Setting description          | Factory setting |
|-----------------|---------------|------------------------------|-----------------|
| 11              | 00            | Standard (2,500 hours)       |                 |
|                 | 01            | Long interval (4,400 hours)  |                 |
|                 | 02            | Short interval (1,250 hours) |                 |
|                 | 03            | No indication                | ◆               |

## 2) Static pressure

Select the appropriate static pressure according to the installation conditions.

| Function number | Setting value | Setting description  | Factory setting |
|-----------------|---------------|--|-----------------|
| 26              | 03            | 0.12 inWG (30 Pa)  |                 |
|                 | 04            | 0.16 inWG (40 Pa)  |                 |
|                 | 05            | 0.20 inWG (50 Pa)  |                 |
|                 | 06            | 0.24 inWG (60 Pa)  |                 |
|                 | 07            | 0.28 inWG (70 Pa)  |                 |
|                 | 08            | 0.32 inWG (80 Pa)  |                 |
|                 | 09            | 0.36 inWG (90 Pa)  |                 |
|                 | 10            | 0.40 inWG (100 Pa)   |                 |
|                 | 11            | 0.44 inWG (110 Pa)   |                 |
|                 | 12            | 0.48 inWG (120 Pa)   |                 |
|                 | 13            | 0.52 inWG (130 Pa)   |                 |
|                 | 14            | 0.56 inWG (140 Pa)   |                 |
|                 | 15            | 0.60 inWG (150 Pa)   |                 |
|                 | 16            | 0.64 inWG (160 Pa)   |                 |
|                 | 17            | 0.68 inWG (170 Pa)   |                 |
|                 | 18            | 0.72 inWG (180 Pa)   |                 |
|                 | 19            | 0.76 inWG (190 Pa)   |                 |
|                 | 20            | 0.80 inWG (200 Pa)   |                 |
|                 | 31            | Standard<br>18-24 model: 0.18 inWG (45 Pa)<br>30-36 model: 0.23 inWG (57 Pa) | ◆               |
|                 | 32            | Automatic airflow adjustment   |                 |

**NOTE:** If the static pressure is set above maximum range, the setting is same as the maximum.

| Type name   | Setting of static pressure range |
|-------------|----------------------------------|
| 18-36 model | 0.12 to 0.8 inWG (30 to 200 Pa)  |

For details, refer to ["Fan performance curve"](#) on page 18.

### 3) Room temperature control for indoor unit sensor

Depending on the installed environment, correction of the room temperature sensor may be required. Select the appropriate control setting according to the installed environment.

The temperature of the room temperature sensor is corrected as follows:

Corrected temp. = Temp. of the room temp. sensor - Correction temp. value

Example of correction:

When the temperature of the room temp. sensor is 78°F and the setting value is "03" (-2°F), the corrected temp. will be 80°F (78°F - [-2°F]).

The temperature correction values show the difference from the Standard setting "00" (manufacturer's recommended value).

| Function number     |                     | Setting value | Setting description         | Factory setting              |
|---------------------|---------------------|---------------|-----------------------------|------------------------------|
| 30<br>(For cooling) | 31<br>(For heating) | 00            | Standard setting            | ◆                            |
|                     |                     | 01            | No correction 0.0°F (0.0°C) |                              |
|                     |                     | 02            | -1°F (-0.5°C)               | More cooling<br>Less heating |
|                     |                     | 03            | -2°F (-1.0°C)               |                              |
|                     |                     | 04            | -3°F (-1.5°C)               |                              |
|                     |                     | 05            | -4°F (-2.0°C)               |                              |
|                     |                     | 06            | -5°F (-2.5°C)               |                              |
|                     |                     | 07            | -6°F (-3.0°C)               |                              |
|                     |                     | 08            | -7°F (-3.5°C)               |                              |
|                     |                     | 09            | -8°F (-4.0°C)               |                              |
|                     |                     | 10            | +1°F (+0.5°C)               | Less cooling<br>More heating |
|                     |                     | 11            | +2°F (+1.0°C)               |                              |
|                     |                     | 12            | +3°F (+1.5°C)               |                              |
|                     |                     | 13            | +4°F (+2.0°C)               |                              |
|                     |                     | 14            | +5°F (+2.5°C)               |                              |
|                     |                     | 15            | +6°F (+3.0°C)               |                              |
|                     |                     | 16            | +7°F (+3.5°C)               |                              |
|                     |                     | 17            | +8°F (+4.0°C)               |                              |

#### 4) Room temperature control for wired remote controller sensor

Depending on the installed environment, correction of the wire remote temperature sensor may be required. Select the appropriate control setting according to the installed environment.

To change this setting, set Function 42 to "Both" (01).

Ensure that the Thermo Sensor icon is displayed on the remote controller screen.

| Function number     |                     | Setting value | Setting description         | Factory setting              |
|---------------------|---------------------|---------------|-----------------------------|------------------------------|
| 35<br>(For cooling) | 36<br>(For heating) | 00            | Standard setting            | ◆                            |
|                     |                     | 01            | No correction 0.0°F (0.0°C) |                              |
|                     |                     | 02            | -1°F (-0.5°C)               | More cooling<br>Less heating |
|                     |                     | 03            | -2°F (-1.0°C)               |                              |
|                     |                     | 04            | -3°F (-1.5°C)               |                              |
|                     |                     | 05            | -4°F (-2.0°C)               |                              |
|                     |                     | 06            | -5°F (-2.5°C)               |                              |
|                     |                     | 07            | -6°F (-3.0°C)               |                              |
|                     |                     | 08            | -7°F (-3.5°C)               |                              |
|                     |                     | 09            | -8°F (-4.0°C)               |                              |
|                     |                     | 10            | +1°F (+0.5°C)               | Less cooling<br>More heating |
|                     |                     | 11            | +2°F (+1.0°C)               |                              |
|                     |                     | 12            | +3°F (+1.5°C)               |                              |
|                     |                     | 13            | +4°F (+2.0°C)               |                              |
|                     |                     | 14            | +5°F (+2.5°C)               |                              |
|                     |                     | 15            | +6°F (+3.0°C)               |                              |
|                     |                     | 16            | +7°F (+3.5°C)               |                              |
|                     |                     | 17            | +8°F (+4.0°C)               |                              |

#### 5) Auto restart

Enables or disables automatic restart after a power interruption.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 40              | 00            | Enable              | ◆               |
|                 | 01            | Disable             |                 |

**NOTE:** Auto restart is an emergency function such as for power outage etc. Do not attempt to use this function in normal operation. Be sure to operate the unit by remote controller or external device.

#### 6) Room temperature sensor switching

(Only for wired remote controller)

When using the wired remote controller temperature sensor, change the setting to "Both" (01).

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 42              | 00            | Indoor unit         | ◆               |
|                 | 01            | Both                |                 |

00: Sensor on the indoor unit is active.

01: Sensors on both indoor unit and wired remote controller are active.

#### NOTES:

- Remote controller sensor must be turned on by using the remote controller.
- When using the remote sensor unit, set to "00" or set to "01" and then select "indoor unit sensor" from wired remote controller.

## 7) Cold air prevention

This setting is to disable the cold air prevention function during heating operation. When disabled, the fan setting will always follow the setting on the remote controller. (Excluding defrost mode)

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 43              | 00            | Enable              | ◆               |
|                 | 01            | Disable             |                 |

## 8) External input control

"Operation/Stop" mode or "Forced stop" mode can be selected.

| Function number | Setting value | Setting description                                   | Factory setting |
|-----------------|---------------|---|-----------------|
| 46              | 00            | Operation/Stop mode 1<br>(Remote controller enabled)  | ◆               |
|                 | 01            | (Setting prohibited)                                  |                 |
|                 | 02            | Forced stop mode                                      |                 |
|                 | 03            | Operation/Stop mode 2<br>(Remote controller disabled) |                 |

## 9) Room temperature sensor switching (Aux.)

To use the temperature sensor on the wired remote controller only, change the setting to "Wired remote controller" (01).

This function will only work if the function setting 42 is set at "Both" (01).

When the setting value is set to "Both" (00), more suitable control of the room temperature is possible by setting function setting 30 and 31 too.

| Function number | Setting value | Setting description     | Factory setting |
|-----------------|---------------|-------------------------|-----------------|
| 48              | 00            | Both                    | ◆               |
|                 | 01            | Wired remote controller |                 |

## 10) Indoor unit fan control for energy saving for cooling

Enables or disables the power-saving function by controlling the indoor unit fan rotation when the outdoor unit is stopped during cooling operation.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 49              | 00            | Disable             |                 |
|                 | 01            | Enable              |                 |
|                 | 02            | Remote controller   | ◆               |

00: When the outdoor unit is stopped, the indoor unit fan operates continuously following the setting on the remote controller.

01: When the outdoor unit is stopped, the indoor unit fan operates intermittently at a very low speed.

02: Enable or disable this function by remote controller setting.

**NOTE:** Set to "00" or "01" when connecting a remote controller that cannot set the Fan control for energy saving function or connecting a network converter. To confirm if the remote controller has this setting, refer to the operating manual of each remote controller.

## 11) Switching functions for external output terminal

Functions of the external output terminal can be switched. For details, refer to “External input and output”.

| Function number | Setting value | Setting description   | Factory setting |
|-----------------|---------------|-----------------------|-----------------|
| 60              | 00            | Operation status      | ◆               |
|                 | 01—04         | Cooling thermostat On |                 |
|                 | 05            | Heating operation     |                 |
|                 | 06            | Operation/Stop        |                 |
|                 | 07—08         | Cooling thermostat On |                 |
|                 | 09            | Error status          |                 |
|                 | 10            | Fresh air control     |                 |
|                 | 11            | External heater       |                 |

## 12) Control switching of external heaters

Sets the control method for external heater to be used.

For details, refer to “External heater output” in ["Details of control output function"](#) on page 44.

| Function number | Setting value | Setting description                                  | Factory setting |
|-----------------|---------------|--|-----------------|
| 61              | 00            | Auxiliary heater control 1                           | ◆               |
|                 | 01            | Auxiliary heater control 2                           |                 |
|                 | 02            | Heat pump prohibition control                        |                 |
|                 | 03            | Auxiliary heater control by outdoor temperature 1    |                 |
|                 | 04            | Auxiliary heater control by outdoor temperature 2    |                 |
|                 | 05            | Auxiliary heater control by outdoor temperature 3    |                 |
|                 | 06            | Auxiliary heat pump control                          |                 |
|                 | 07            | Auxiliary heat pump control by outdoor temperature 1 |                 |
|                 | 08            | Auxiliary heat pump control by outdoor temperature 2 |                 |
|                 | 09            | Auxiliary heat pump control by outdoor temperature 3 |                 |

### 13) Operating temperature switching of external heaters

Sets the temperature conditions when the external heater is ON.

For details, refer to "External heater output" in ["Details of control output function"](#) on page 44.

| Function number | Setting value | Setting description           |                 |                 |                 | Factory setting |
|-----------------|---------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|
|                 |               | Setting value of function 61: |                 |                 |                 |                 |
|                 |               | 00                            |                 | 01 to 09        |                 |                 |
|                 |               | Heater: On                    | Heater: Off     | Heater: On      | Heater: Off     |                 |
| 62              | 00            | -5.4°F (-3°C)                 | -1.8°F (-1°C)   | -0.9°F (-0.5°C) | -0.9°F (-0.5°C) | ◆               |
|                 | 01            | -3.6°F (-2°C)                 | -1.8°F (-1°C)   | -1.8°F (-1°C)   | -0.9°F (-0.5°C) |                 |
|                 | 02            | -3.6°F (-2°C)                 | -1.8°F (-1°C)   | -3.6°F (-2°C)   | -0.9°F (-0.5°C) |                 |
|                 | 03            | -5.4°F (-3°C)                 | -1.8°F (-1°C)   | -5.4°F (-3°C)   | -0.9°F (-0.5°C) |                 |
|                 | 04            | -7.2°F (-4°C)                 | -1.8°F (-1°C)   | -7.2°F (-4°C)   | -0.9°F (-0.5°C) |                 |
|                 | 05            | -9.0°F (-5°C)                 | -1.8°F (-1°C)   | -9.0°F (-5°C)   | -0.9°F (-0.5°C) |                 |
|                 | 06            | -5.4°F (-3°C)                 | -0.9°F (-0.5°C) | -0.9°F (-0.5°C) | 0°F (0°C)       |                 |
|                 | 07            | -3.6°F (-2°C)                 | -0.9°F (-0.5°C) | -1.8°F (-1°C)   | 0°F (0°C)       |                 |
|                 | 08            | -3.6°F (-2°C)                 | -0.9°F (-0.5°C) | -3.6°F (-2°C)   | 0°F (0°C)       |                 |
|                 | 09            | -5.4°F (-3°C)                 | -0.9°F (-0.5°C) | -5.4°F (-3°C)   | 0°F (0°C)       |                 |
|                 | 10            | -7.2°F (-4°C)                 | -0.9°F (-0.5°C) | -7.2°F (-4°C)   | 0°F (0°C)       |                 |
|                 | 11            | -9.0°F (-5°C)                 | -0.9°F (-0.5°C) | -9.0°F (-5°C)   | 0°F (0°C)       |                 |
|                 | 12            | -5.4°F (-3°C)                 | 0°F (0°C)       | -0.9°F (-0.5°C) | -0.9°F (-0.5°C) |                 |
|                 | 13            | -3.6°F (-2°C)                 | 0°F (0°C)       | -1.8°F (-1°C)   | -0.9°F (-0.5°C) |                 |
|                 | 14            | -3.6°F (-2°C)                 | 0°F (0°C)       | -3.6°F (-2°C)   | -0.9°F (-0.5°C) |                 |
|                 | 15            | -5.4°F (-3°C)                 | 0°F (0°C)       | -5.4°F (-3°C)   | -0.9°F (-0.5°C) |                 |
|                 | 16            | -7.2°F (-4°C)                 | 0°F (0°C)       | -7.2°F (-4°C)   | -0.9°F (-0.5°C) |                 |
|                 | 17            | -9.0°F (-5°C)                 | 0°F (0°C)       | -9.0°F (-5°C)   | -0.9°F (-0.5°C) |                 |

### 14) Outdoor temperature zone boundary temperature A

Setting required if changing of the outdoor temperature setting for heat pump prohibition zone is required when auxiliary heater control by outdoor temperature 1 and 2 are performed on the indoor unit.

For details, refer to "External heater output" in ["Details of control output function"](#) on page 44.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 66              | 00            | -4.0°F (-20°C)      | ◆               |
|                 | 01            | -0.4°F (-18°C)      |                 |
|                 | 02            | 3.2°F (-16°C)       |                 |
|                 | 03            | 6.8°F (-14°C)       |                 |
|                 | 04            | 10.4°F (-12°C)      |                 |
|                 | 05            | 14.0°F (-10°C)      |                 |
|                 | 06            | 17.6°F (-8°C)       |                 |
|                 | 07            | 21.2°F (-6°C)       |                 |
|                 | 08            | 24.8°F (-4°C)       |                 |

**15) Outdoor temperature zone boundary temperature B**

Setting required if changing of the outdoor temperature setting for heat pump only zone is required when auxiliary heater control by outdoor temperature 1 and 3 is performed on the indoor unit.

For details, refer to "External heater output" in ["Details of control output function"](#) on page 44.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 67              | 00            | 42.8°F (6°C)        | ◆               |
|                 | 01            | 14.0°F (-10°C)      |                 |
|                 | 02            | 17.6°F (-8°C)       |                 |
|                 | 03            | 21.2°F (-6°C)       |                 |
|                 | 04            | 24.8°F (-4°C)       |                 |
|                 | 05            | 28.4°F (-2°C)       |                 |
|                 | 06            | 32.0°F (0°C)        |                 |
|                 | 07            | 35.6°F (2°C)        |                 |
|                 | 08            | 39.2°F (4°C)        |                 |
|                 | 09            | 42.8°F (6°C)        |                 |
|                 | 10            | 46.4°F (8°C)        |                 |
|                 | 11            | 50.0°F (10°C)       |                 |
|                 | 12            | 53.6°F (12°C)       |                 |
|                 | 13            | 57.2°F (14°C)       |                 |
|                 | 14            | 60.8°F (16°C)       |                 |
|                 | 15            | 64.4°F (18°C)       |                 |

**16) Standby time for auxiliary equipment operation**

Sets the standby time until the auxiliary equipment operation starts during primary equipment operation.

For details, refer to ["Details of control output function"](#) on page 44.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 71              | 00            | Disable             | ◆               |
|                 | 01            | 1 minute            |                 |
|                 | 02            | 2 minutes           |                 |
|                 | •             | •                   |                 |
|                 | •             | •                   |                 |
|                 | •             | •                   |                 |
|                 | 98            | 98 minutes          |                 |
|                 | 99            | 99 minutes          |                 |

**17) Heat pump backup setting**

Enables or disables the heat pump backup instruction from the outdoor unit.

This function will be usable provided that the corresponding outdoor unit is connected.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 72              | 00            | Disable             | ◆               |
|                 | 01            | Enable              |                 |

**18) Emergency heat for external output terminal**

Enables or disables emergency heat input.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 73              | 00            | Disable             | ◆               |
|                 | 01            | Enable              |                 |

**NOTE:** When this function is used, IR Receiver Unit is necessary.



**19) Fan delay time**

Sets the fan delay time when the heater is turned off.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 74              | 00            | 1 minute            | ♦               |
|                 | 01            | 50 seconds          |                 |
|                 | 02            | 40 seconds          |                 |
|                 | 03            | 30 seconds          |                 |

**20) External heater use in defrosting**

Enables or disables external heater use in defrosting.

**NOTE:** Inappropriate heater selection may cause cold air in defrosting.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 75              | 00            | Disable             | ♦               |
|                 | 01            | Enable              |                 |






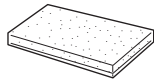
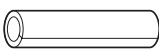
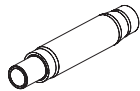
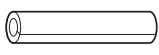

**21) Fixed operation mode switching**

Sets the operation mode to heat pump, heating only, or cooling only.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 94              | 00            | Heat pump           | ♦               |
|                 | 01            | Heating only        |                 |
|                 | 02            | Cooling only        |                 |


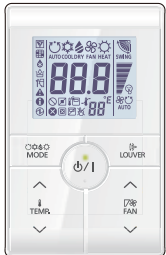
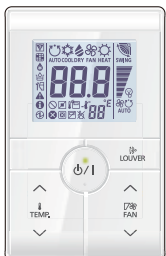
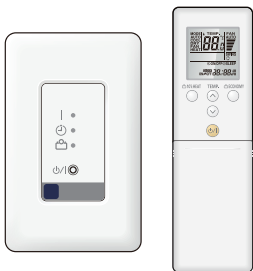
## 11. Accessories

### 11-1. Models: ARUH18LUAS, ARUH24LUAS, ARUH30LUAS, and ARUH36LUAS

| Part name                         | Exterior  | Qty | Part name             | Exterior  | Qty |
|-----------------------------------|---|-----|-----------------------|---|-----|
| Operation manual                  |  | 1   | Cable tie (large)     |  | 4   |
| Installation manual (indoor unit) |  | 1   | Cable tie (medium)    |  | 1   |
| Washer                            |  | 8   | Drain hose insulation |  | 1   |
| Coupler heat insulation (large)   |  | 1   | Drain hose            |  | 1   |
| Coupler heat insulation (small)   |  | 1   | Hose band             |  | 1   |

## 12. Optional parts


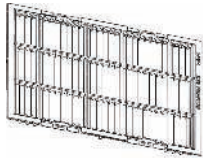
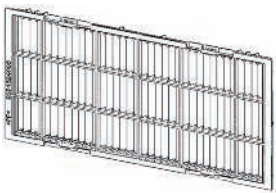
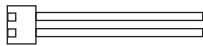
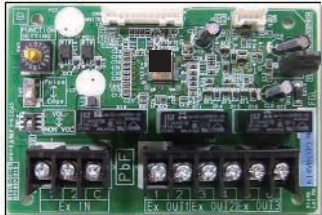
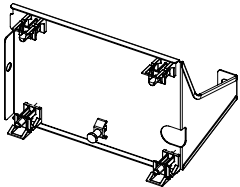



### 12-1. Controllers

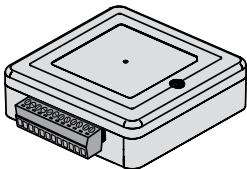



| Exterior  | Part name                                       | Model name | Summary  |
|---|---|------------|--|
|    | Wired Remote Controller                         | UTY-RNRUZ* | Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room.<br>Wire type: Non-polar 2-wire  |
|    | Simple Remote Controller                        | UTY-RSRY   | Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode.<br>Wire type: Non-polar 2-wire |
|   | Simple Remote Controller                        | UTY-RHRY   | Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting.<br>Wire type: Non-polar 2-wire                 |
|  | IR Receiver Kit with Wireless Remote Controller | UTY-LBTUM  | Unit control is performed by Wireless Remote Controller<br>Connecting point: CN48 on Main PCB  |

#### NOTES:

- Available functions may differ by the remote controller. For details, refer to the operation manual.
- When using the group controlling system of the Wired Remote Controller, using WLAN Adapter is prohibited.

## 12-2. Others

| Exterior  | Part name                             | Model name | Summary  |
|---|---------------------------------------|------------|--|
|    | Remote Sensor Unit                    | UTY-XSZXZ* | Thermo-sensor for sensing the temperature of arbitrary place in the room.  |
|    | Long-life Filter                      | UTD-LFNB   | Long-life Filter can be mounted to the indoor unit.<br>(For 18-30 model)   |
|    | Long-life Filter                      | UTD-LFNA   | Long-life Filter can be mounted to the indoor unit.<br>(For 36 model)  |
|    | External Connect Kit                  | UTY-XWZXZG | Use to connect with various peripheral devices and air conditioner PCB.<br>For control output port.<br>Connecting point: CN47 on Main PCB  |
|   | External Input and Output PCB         | UTY-XCSX   | Use to connect with external devices and air conditioner PCB.<br><br>Connecting point: CN65 or CN75 on Main PCB  |
|  | External Input and Output PCB Bracket | UTZ-GXNA   | For installing the External input and output PCB.  |
|  | WLAN Adapter                          | UTY-TFSXJ4 | Remotely manage an air conditioning system using mobile devices such as smartphones and tablets.<br>For connection indoor unit with UART interface.<br>Appropriate application for each region is required to use this option. For details, contact FGL sales company.<br>Connecting point: CN75 on Main PCB |
|  | Modbus Converter                      | UTY-VMSX   | For connection between indoor unit with UART interface and a Modbus open network.<br>Connecting point: CN65 or CN75 on Main PCB  |
|  | KNX Converter                         | UTY-VKSX   | For connection between indoor unit with UART interface and a KNX open network.<br>Connecting point: CN65 or CN75 on Main PCB   |

| Exterior  | Part name                           | Model name | Summary   |
|---|-------------------------------------|------------|---|
|  | Thermostat Converter                | UTY-TTRXZ* | This converter can control Fujitsu General products using a third-party thermostat controller.<br>Connecting point: Terminal block (Y1, Y2) on Main PCB |
|  | Network Converter                   | UTY-VTGX   | This converter is required when connecting single split system to VRF network system.<br>Connecting point: Terminal block (Y1, Y2) on Main PCB          |
|  | Network Converter (AC power supply) | UTY-VTGXV  | This converter is required when connecting single split system to VRF network system.<br>Connecting point: Terminal block (Y1, Y2) on Main PCB          |
|  | External Switch Controller          | UTY-TERX   | Air conditioner switching can be controlled by connecting other external sensor switches.<br>Connecting point: Terminal block (Y1, Y2) on Main PCB      |



## **Part 2. OUTDOOR UNIT**

---

**SINGLE TYPE:**

**AOUH18LUAS1**

**AOUH24LUAS1**

**AOUH30LUAS1**

**AOUH36LUAS1**

# 1. Specifications

| Type                    |                        |                       |  | Inverter, Heat pump  |               |  |
|-------------------------|------------------------|-----------------------|--|--|---------------|--|
| Model name              |                        |                       |  | AOUH18LUAS1  | AOUH24LUAS1   |  |
| Power supply            |                        |                       |  | 208/230 V~ 60 Hz   |               |  |
| Power supply intake     |                        |                       |  | Outdoor unit   |               |  |
| Available voltage range |                        |                       |  | 187—253 V  |               |  |
| Starting current        |                        |                       | A  | 8.1  | 10.3          |  |
| Fan                     | Airflow rate           | Cooling               | CFM (m³/h)   | 1,395 (2,370)  | 2,187 (3,715) |  |
|                         |                        | Heating               |  |  | 2,187 (3,715) |  |
|                         | Type × Qty             |                       |  | Propeller fan × 1  |               |  |
| Motor output            |                        | W                     | 49   | 100  |               |  |
| Sound pressure level*   |                        | Cooling               | dB (A)   | 52   |               |  |
|                         |                        | Heating               |  | 55   | 54            |  |
| Heat exchanger type     | Dimensions (H × W × D) | in (mm)               | Main 1: 23-1/8 × 34-11/16 × 11/16<br>(588 × 881 × 18.19)<br>Main 2: 23-1/8 × 33-1/2 × 11/16<br>(588 × 851 × 18.19) | Main 1: 29-3/4 × 35-5/8 × 11/16<br>(756 × 905 × 18.19)<br>Main 2: 29-3/4 × 35-5/8 × 11/16<br>(756 × 905 × 18.19) |               |  |
|                         | Fin pitch              | FPI                   | Main 1: 20<br>Main 2: 20   | Main 1: 18<br>Main 2: 18   |               |  |
|                         | Rows × Stages          |                       | Main 1: 1 × 28<br>Main 2: 1 × 28   | Main 1: 1 × 36<br>Main 2: 1 × 36   |               |  |
|                         | Pipe type              |                       | Copper tube  |  |               |  |
|                         | Fin type               |                       | Type (Material)  | Aluminum   |               |  |
|                         |                        |                       | Surface treatment  | PC fin   | Blue fin      |  |
| Compressor              | Type                   |                       | DC rotary  | DC twin rotary   |               |  |
|                         | Motor output           | W                     | 1,030  | 1,360  |               |  |
| Refrigerant             | Type                   |                       | R410A  |  |               |  |
|                         | Charge                 | lb oz                 | 2 lb 12 oz   | 4 lb 10 oz   |               |  |
|                         |                        | g                     | 1,250  | 2,100  |               |  |
| Refrigerant oil         | Type                   |                       | POE (RB68)   |  |               |  |
|                         | Amount                 | in³ (cm³)             | 24.4 (400)   | 48.8 (800)   |               |  |
| Enclosure               | Material               |                       | Steel sheet  |  |               |  |
|                         | Color                  |                       | Beige  |  |               |  |
|                         |                        |                       | Approximate color of Munsell 10YR 7.5/1.0  |  |               |  |
| Dimensions (H × W × D)  | Net                    | in (mm)               | 24-7/8 × 31-7/16 × 11-7/16<br>(632 × 799 × 290)  | 31 × 37 × 12-5/8<br>(788 × 940 × 320)  |               |  |
|                         | Gross                  |                       | 27-1/4 × 37 × 14-3/4<br>(692 × 940 × 375)  | 38-1/16 × 40-7/16 × 17-1/2<br>(966 × 1,027 × 445)  |               |  |
| Weight                  | Net                    | lb (kg)               | 86 (39)  | 117 (53)   |               |  |
|                         | Gross                  |                       | 95 (43)  | 134 (61)   |               |  |
| Connection pipe         | Size                   | Liquid                | Ø1/4 (Ø6.35)   | Ø3/8 (Ø9.52)   |               |  |
|                         |                        | Gas                   | Ø1/2 (Ø12.70)  | Ø5/8 (Ø15.88)  |               |  |
|                         | Method                 |                       | Flare  |  |               |  |
|                         | Pre-charge length      |                       | ft (m)   | 66 (20)  |               |  |
|                         | Max. length            |                       |  | 98 (30)  | 164 (50)      |  |
|                         | Max. height difference |                       |  | 49 (15)  | 98 (30)       |  |
|                         |                        | 14 to 115 (-10 to 46) |  | -5 to 115 (-21 to 46)  |               |  |
| Operation range         |                        | Cooling               | °F (°C)  | -5 to 75 (-21 to 24)   |               |  |
|                         |                        | Heating               |  |  |               |  |
| Drain hose              |                        | Material              | LDPE   |  |               |  |
|                         |                        | Tip diameter          | in (mm)  | Ø1/2 (Ø13.0) (I.D.)<br>Ø5/8 to Ø11/16 (Ø16.0 to Ø16.7) (O.D.)  |               |  |

## NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).
  - Heating: Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).
  - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- \*: Sound pressure level
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.



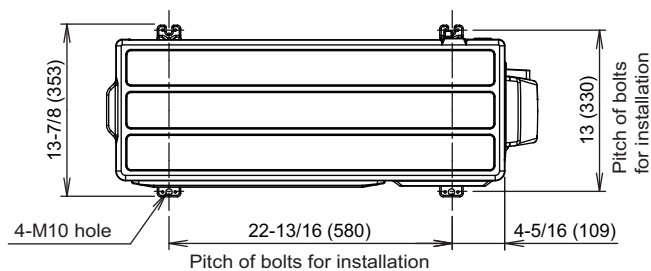
| Type   |                        |                           |  | Inverter, Heat pump  |               |
|--|------------------------|---------------------------|--|--|---------------|
| Model name   |                        |                           |  | AOUH30LUAS1  | AOUH36LUAS1   |
| Power supply   |                        |                           |  | 208/230 V~ 60 Hz   |               |
| Power supply intake  |                        |                           |  | Outdoor unit   |               |
| Available voltage range  |                        |                           |  | 187—253 V  |               |
| Starting current   |                        |                           | A  | 13.4   | 16.5          |
| Fan  | Airflow rate           | Cooling                   | CFM (m³/h)   | 2,301 (3,910)  | 2,502 (4,250) |
|  |                        | Heating                   |  | 2,219 (3,770)  | 2,431 (4,130) |
|  | Type × Qty             |                           |  | Propeller fan × 1  |               |
| Motor output   |                        |                           | W  | 120  |               |
| Sound pressure level*  |                        | Cooling                   | dB (A)   | 53   | 54            |
|  |                        | Heating                   |  | 55   | 56            |
| Heat exchanger type  |                        | Dimensions<br>(H × W × D) | in (mm)  | Main 1: 38-1/16 × 35-5/8 × 11/16<br>(966 × 905 × 18.19)<br>Main 2: 38-1/16 × 35-5/8 × 11/16<br>(966 × 905 × 18.19) |               |
|  |                        | Fin pitch                 | FPI  | Main 1: 18<br>Main 2: 18   |               |
|  |                        | Rows × Stages             |  | Main 1: 1 × 46<br>Main 2: 1 × 46   |               |
|  |                        | Pipe type                 |  | Copper tube  |               |
|  |                        | Fin type                  | Type (Material)                                    | Aluminum   |               |
|  |                        |                           | Surface treatment                                  | Blue fin   |               |
| Compressor   |                        | Type                      | DC twin rotary                                     |  |               |
|  |                        | Motor output              | W  | 1,830  |               |
| Refrigerant  |                        | Type                      | R410A  |  |               |
|  |                        | Charge                    | lb oz<br>g   | 5 lb 8 oz<br>2,500   |               |
| Refrigerant oil  |                        | Type                      | POE (RB68)   |  |               |
|  |                        | Amount                    | in³ (cm³)  | 48.8 (800)   |               |
| Enclosure  |                        | Material                  | Steel sheet  |  |               |
|  |                        | Color                     | Beige<br>Approximate color of Munsell 10YR 7.5/1.0 |  |               |
| Dimensions<br>(H × W × D)  |                        | Net                       | in (mm)  | 39-5/16 × 37 × 12-5/8<br>(998 × 940 × 320)   |               |
|  |                        | Gross                     |  | 46-5/16 × 40-7/16 × 17-1/2<br>(1,176 × 1,027 × 445)  |               |
| Weight   |                        | Net                       | lb (kg)  | 139 (63)   |               |
|  |                        | Gross                     |  | 159 (72)   |               |
| Connection pipe  | Size                   | Liquid                    | in (mm)  | Ø3/8 (Ø9.52)   |               |
|  |                        | Gas                       |  | Ø5/8 (Ø15.88)  |               |
|  | Method                 |                           | Flare  |  |               |
|  | Pre-charge length      |                           | ft (m)   | 66 (20)  |               |
|  | Max. length            |                           |  | 164 (50)   |               |
|  | Max. height difference |                           |  | 98 (30)  |               |
| Operation range  |                        | Cooling                   | °F (°C)  | -5 to 115 (-21 to 46)  |               |
|  |                        | Heating                   |  | -5 to 75 (-21 to 24)   |               |
| Drain hose   |                        | Material                  | LDPE   |  |               |
|  |                        | Tip diameter              | in (mm)  | Ø1/2 (Ø13.0) (I.D.)<br>Ø5/8 to Ø11/16 (Ø16.0 to Ø16.7) (O.D.)  |               |
| NOTES:   |                        |                           |  |  |               |
| <ul style="list-style-type: none"><li>Specifications are based on the following conditions:<ul style="list-style-type: none"><li>Cooling: Indoor temperature of 80°FDB (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).</li><li>Heating: Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).</li><li>Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)</li></ul></li><li>Protective function might work when using it outside the operation range.</li><li>*: Sound pressure level<ul style="list-style-type: none"><li>Measured values in manufacturer's anechoic chamber.</li><li>Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li></ul></li></ul> |                        |                           |  |  |               |

OUTDOOR UNIT  
AOUH18-36LUAS1OUTDOOR UNIT  
AOUH18-36LUAS1

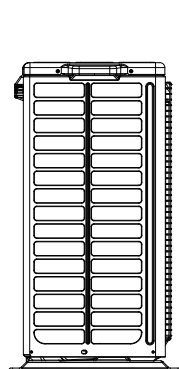
## 2. Dimensions

### 2-1. Model: AOUH18LUAS1

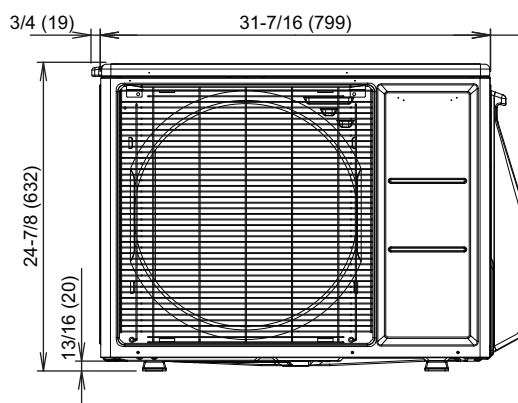
Unit: in (mm)

OUTDOOR UNIT  
AOUH18-36LUAS1OUTDOOR UNIT  
AOUH18-36LUAS1

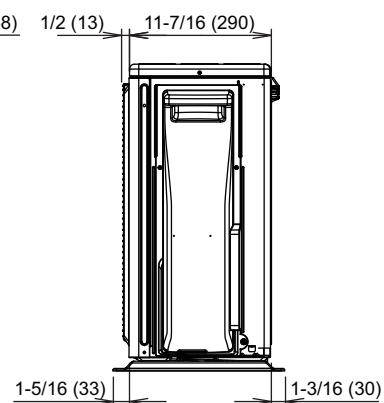
Top view



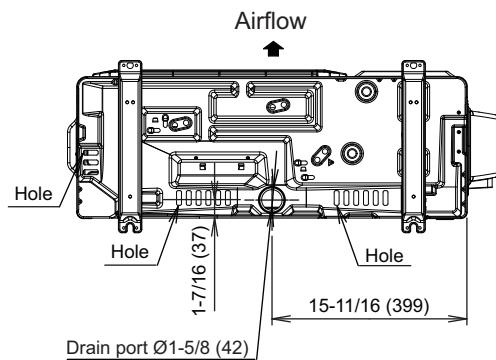
Side view



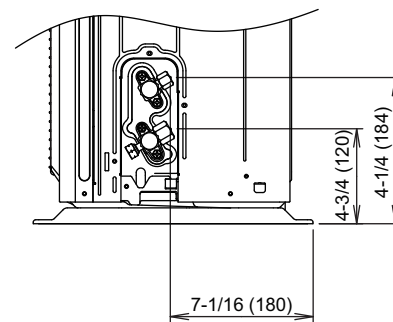
Front view



Side view



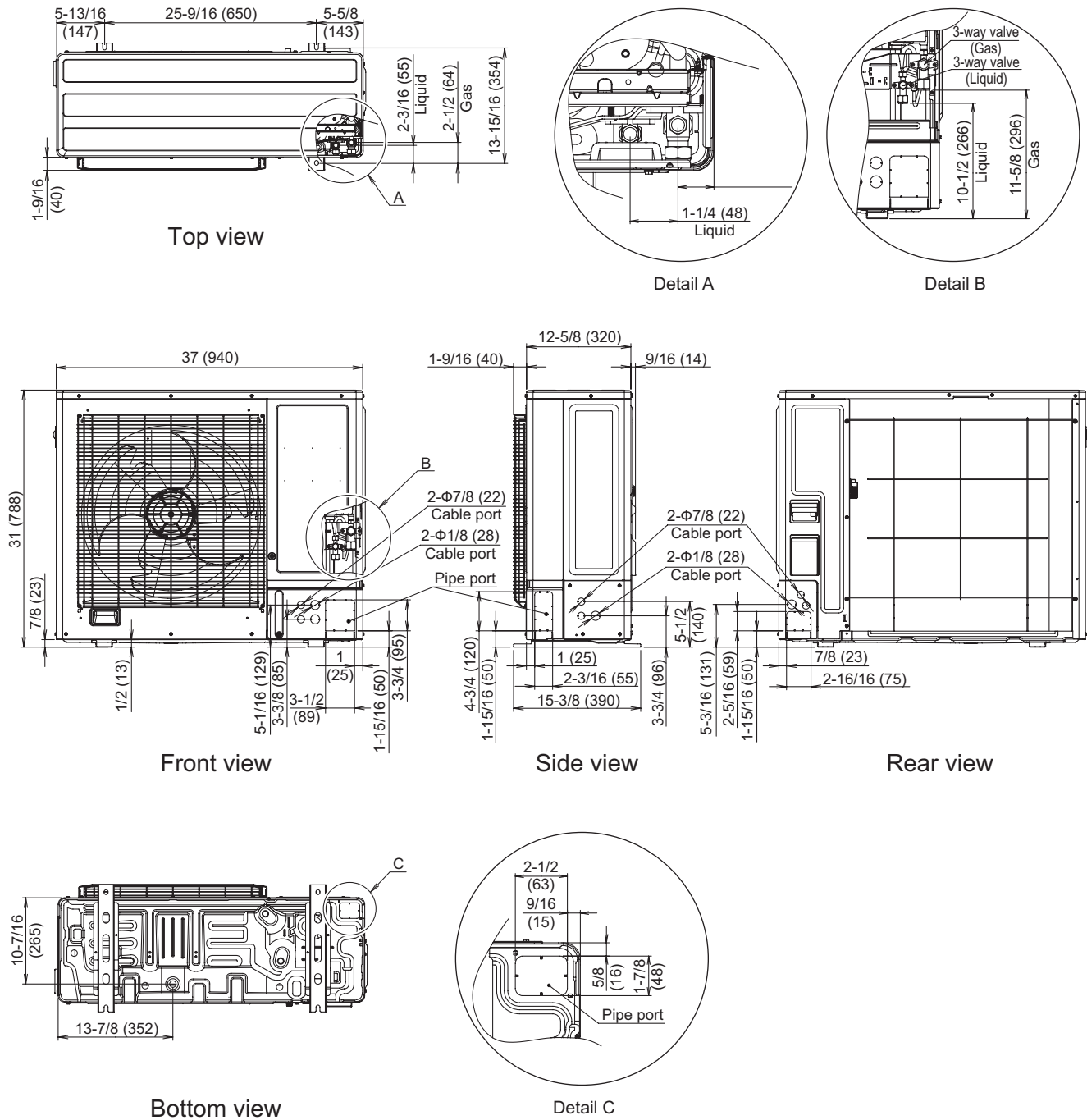
Bottom view



Side view (Valve part)

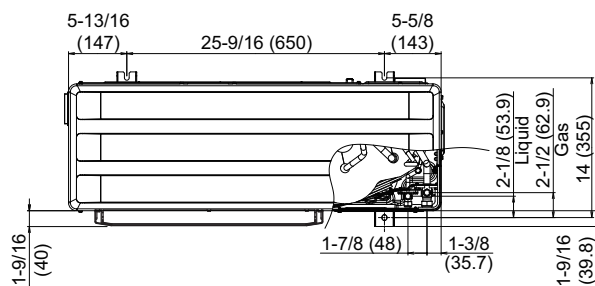
## 2-2. Model: AOUH24LUAS1

Unit: in (mm)

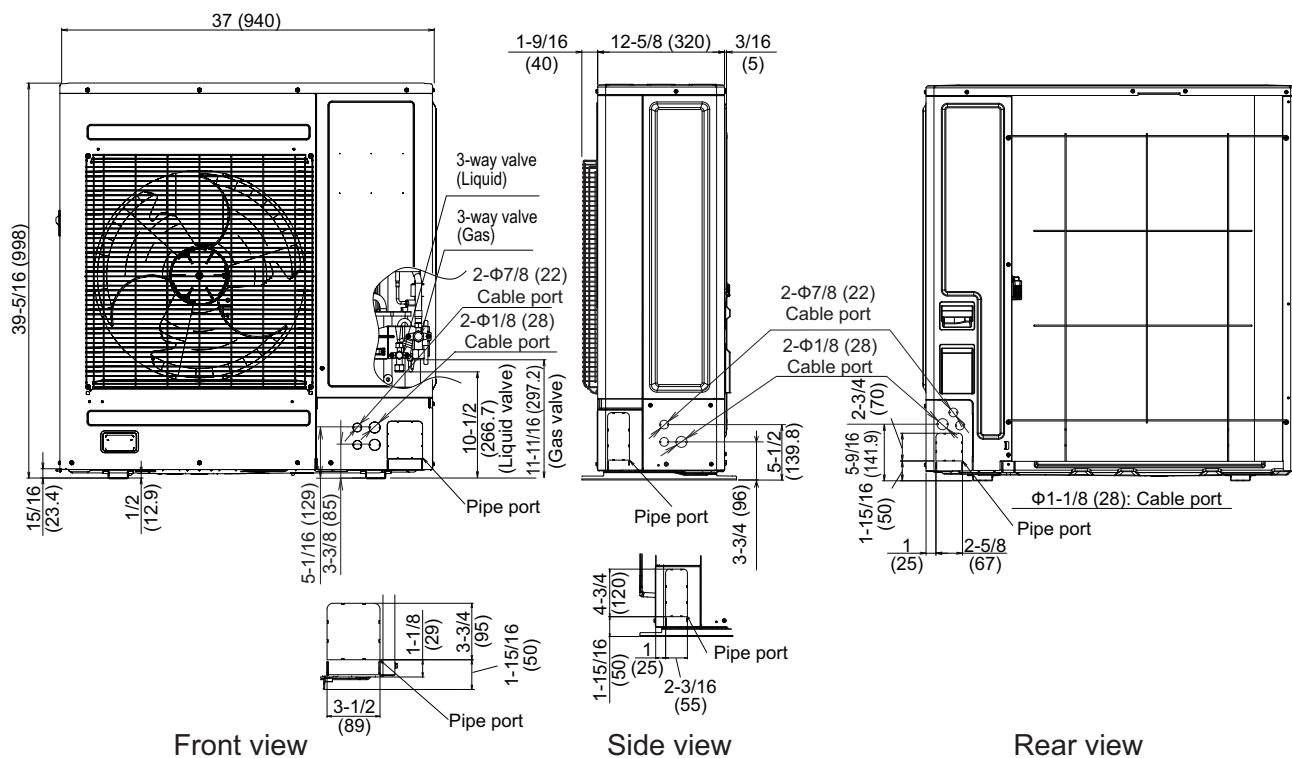
OUTDOOR UNIT  
AOUH18-36LUAS1OUTDOOR UNIT  
AOUH18-36LUAS1

## 2-3. Models: AOUH30LUAS1 and AOUH36LUAS1

Unit: in (mm)

OUTDOOR UNIT  
AOUH18-36LUAS1OUTDOOR UNIT  
AOUH18-36LUAS1

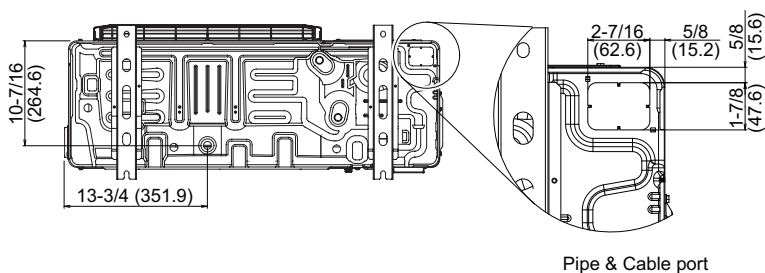
Top view



Front view

Side view

Rear view



Pipe &amp; Cable port

Bottom view

## 3. Installation space

### 3-1. Model: AOUH18LUAS1

#### ■ Space requirement

Provide sufficient installation space for product safety.

#### ⚠ CAUTION

Keep the space shown in the installation examples.

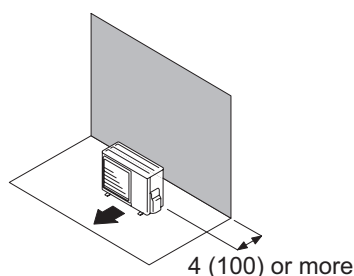
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

#### ● Single outdoor unit installation

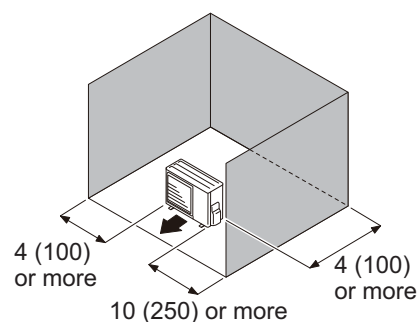
- When the upper space is open:

Unit: in (mm)

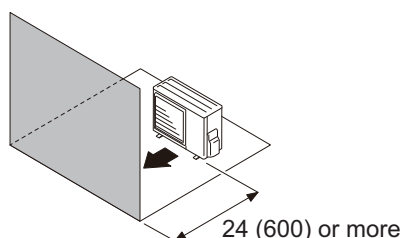
Obstacles at rear only



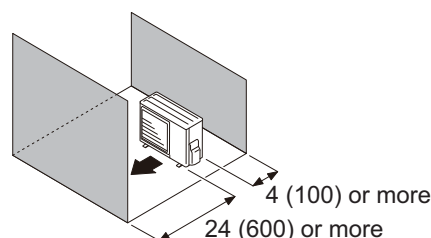
Obstacles at rear and sides



Obstacles at front



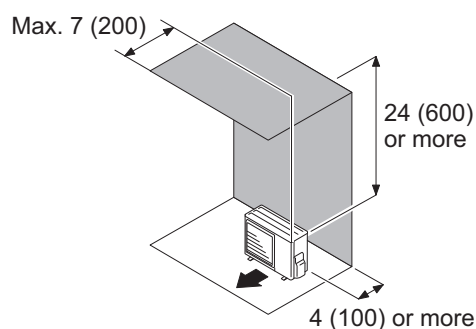
Obstacles at front and rear



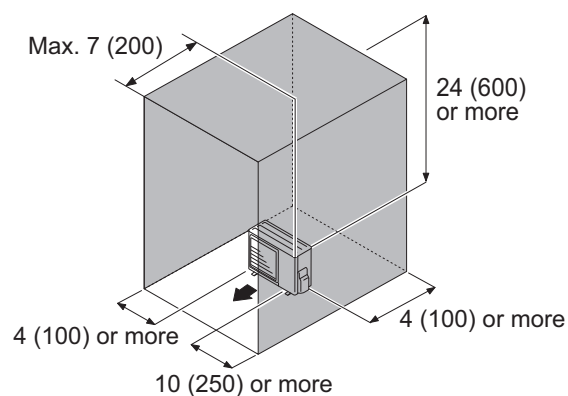
- When an obstruction in the upper space:

Unit: in (mm)

Obstacles at rear and above



Obstacles at rear, sides, and above

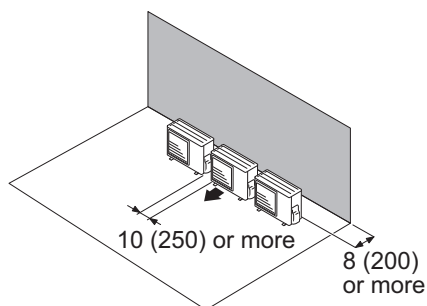


## ● Multiple outdoor unit installation

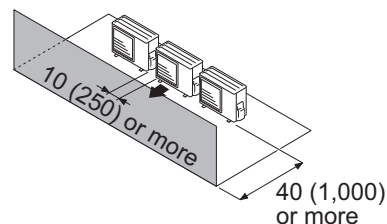
- Provide at least 10 in (250 mm) of space between the outdoor units if multiple units are installed.
- When routing the piping from the side of an outdoor unit, provide space for piping.
- No more than 3 units must be installed side by side.  
When 4 units or more are arranged in a line, provide the space as shown in the following example **“When an obstruction in the upper space:”**.
- **When the upper space is open:**

Unit: in (mm)

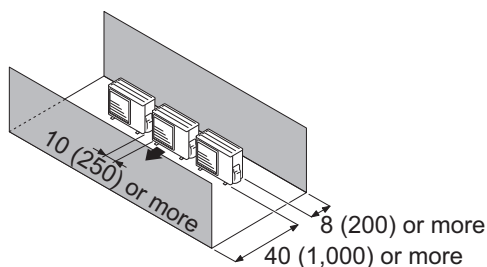
Obstacles at rear only



Obstacles at front only



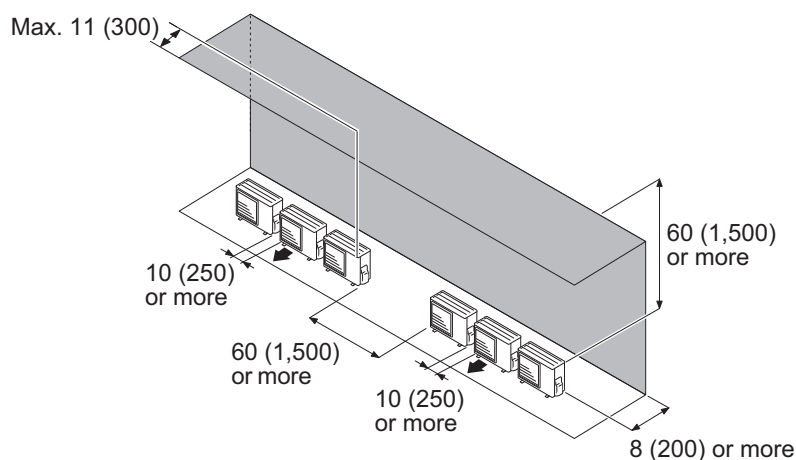
Obstacles at front and rear



- **When an obstruction in the upper space:**

Unit: in (mm)

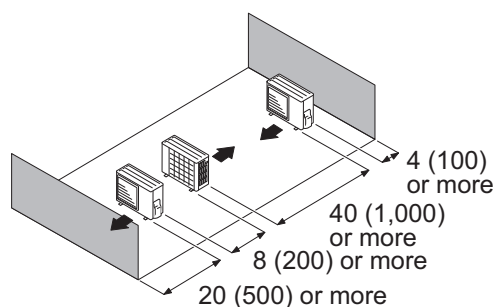
Obstacles at rear and above.



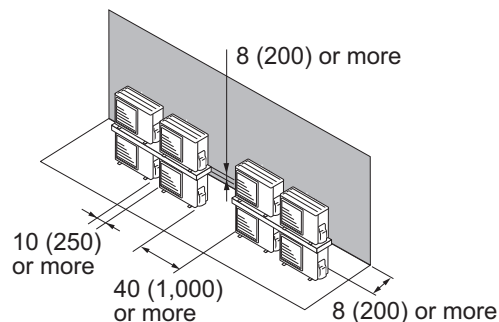
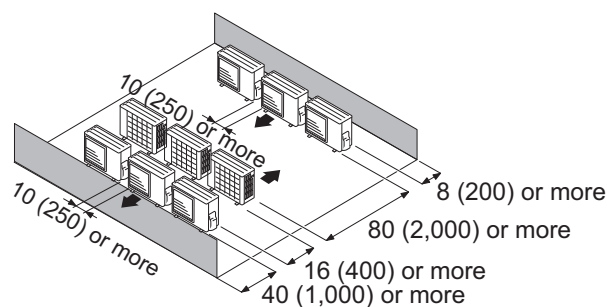
## ● Outdoor units installation in multi-row

Unit: in (mm)

Single parallel unit arrangement



Multiple parallel unit arrangement

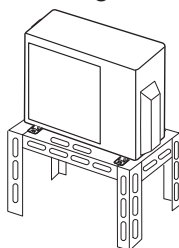


### NOTES:

- If the space is larger than stated above, the condition will be the same as when there is no obstacle.
- When installing the outdoor unit, be sure to open the front and left side to obtain better operation efficiency.

### ⚠ CAUTION

- Do not install the outdoor unit in two-stage where the drain water could freeze. Otherwise the drainage from the upper unit may form ice and cause a malfunction of the lower unit.
- When the outdoor temperature is 32 °F (0 °C) or less, do not use the accessory drain pipe and drain cap. If the drain pipe and drain cap are used, the drain water in the pipe may freeze in extremely cold climate. (For reverse cycle model only.)
- In area with heavy snowfall, if the inlet and outlet of the outdoor unit is blocked with snow, it might become difficult to get warm, and it is likely to cause product malfunction. Construct a canopy and a pedestal, or place the unit on a high stand that is locally installed.



## 3-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

### ■ Space requirement

Provide sufficient installation space for product safety.

#### ⚠ CAUTION

Keep the space shown in the installation examples.

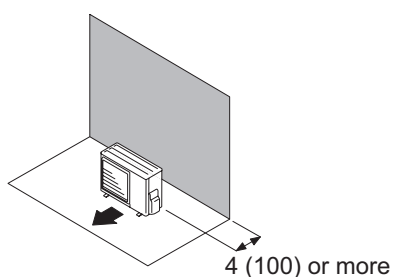
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

### ● Single outdoor unit installation

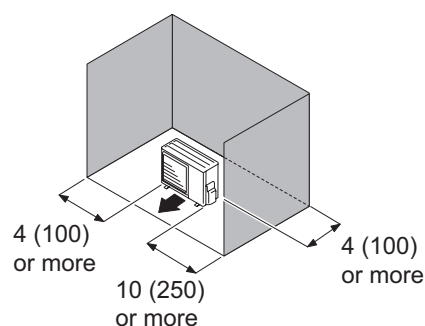
- When the upper space is open:

Unit: in (mm)

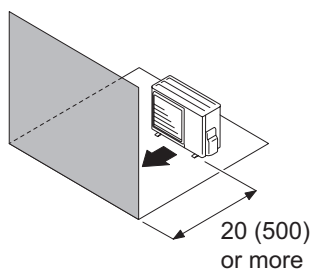
When there are obstacles at the rear only.



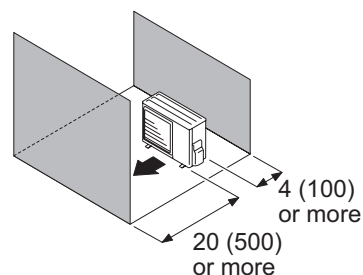
When there are obstacles at the rear and sides.



When there are obstacles at the front only.



When there are obstacles at the front and rear.

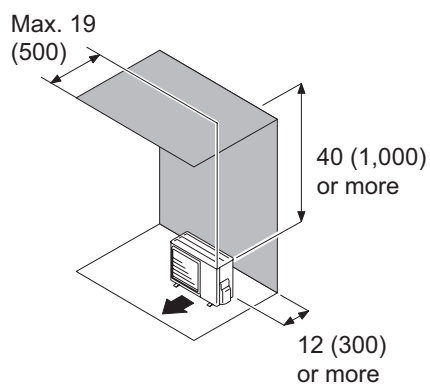




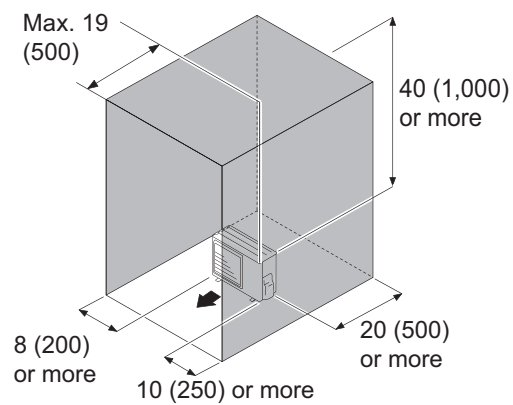
- When an obstruction in the upper space:

Unit: in (mm)

When there are obstacles at the rear and above.



When there are obstacles at the rear, sides, and above.



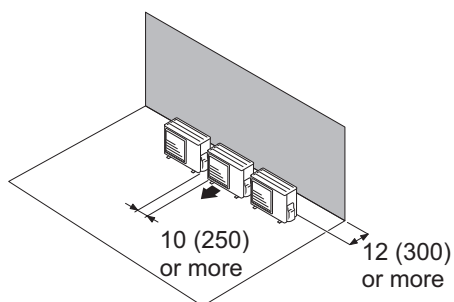
## ● Multiple outdoor unit installation

- Provide at least 250 mm of space between the outdoor units if multiple units are installed.
- When routing the piping from the side of an outdoor unit, provide space for piping.
- No more than 3 units must be installed side by side.  
When 4 units or more are arranged in a line, provide the space as shown in the following example **“When an obstruction in the upper space:”**.

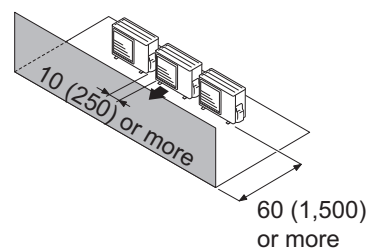
- **When the upper space is open:**

Unit: in (mm)

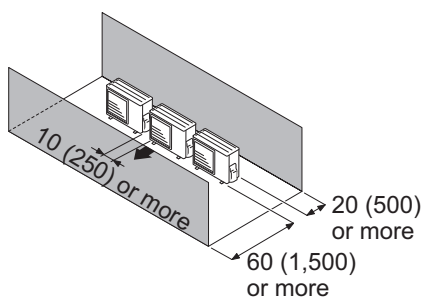
When there are obstacles at the rear only.



When there are obstacles at the front only.



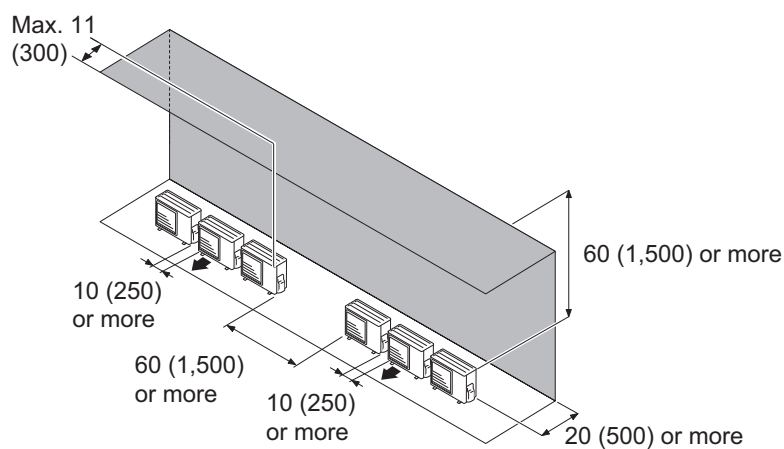
When there are obstacles at the front and rear.



- **When an obstruction in the upper space:**

Unit: in (mm)

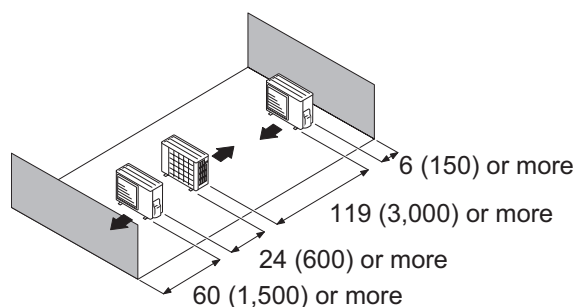
When there are obstacles at the rear and above.



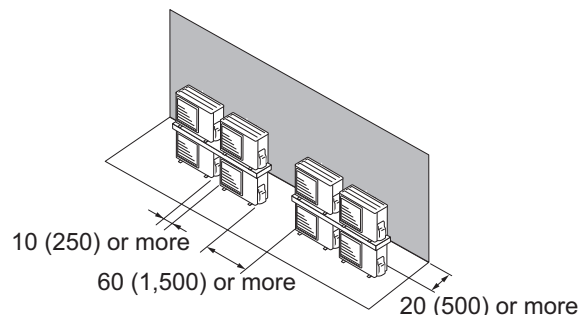
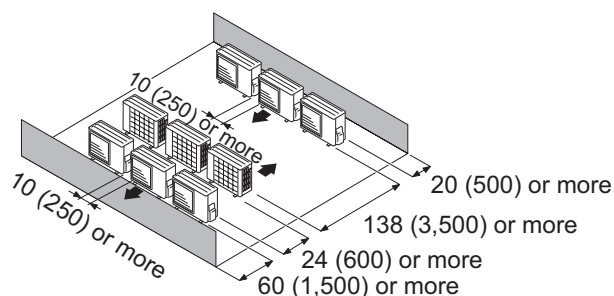
## ● Outdoor unit installation in multi-row

Unit: in (mm)

Single parallel unit arrangement



Multiple parallel unit arrangement

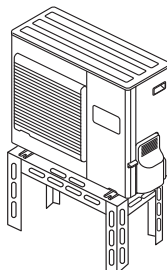


### NOTES:

- If the space is larger than stated above, the condition will be the same as when there is no obstacle.
- Height above the floor level should be 2 in (50 mm) or more.
- When installing the outdoor unit, be sure to open the front and left side to obtain better operation efficiency.

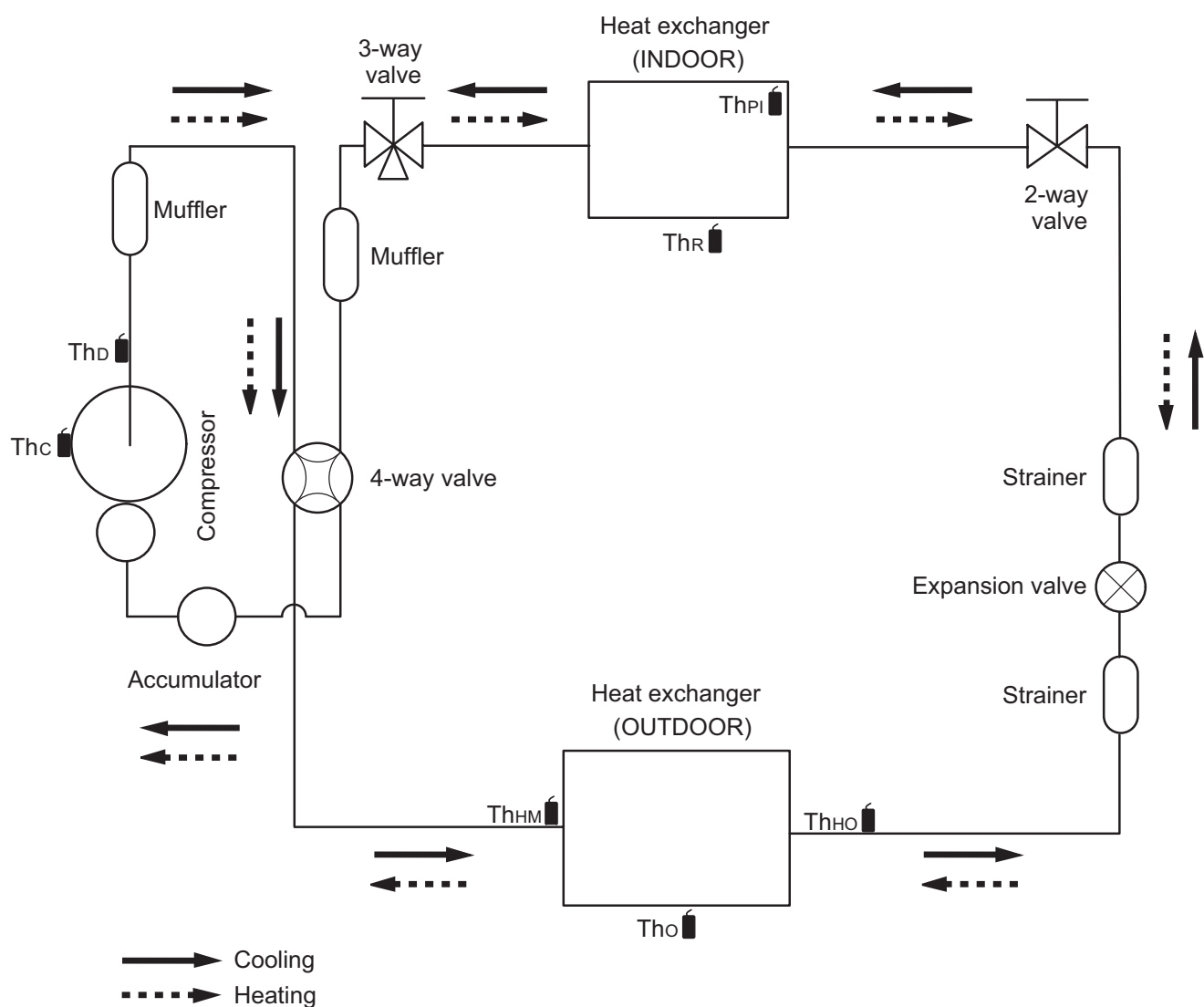
### ⚠ CAUTION

- Do not install the outdoor unit in two-stage where the drain water could freeze. Otherwise the drainage from the upper unit may form ice and cause a malfunction of the lower unit.
- When the outdoor temperature is 32 °F (0 °C) or less, do not use the accessory drain pipe and drain cap. If the drain pipe and drain cap are used, the drain water in the pipe may freeze in extremely cold climate. (For reverse cycle model only.)
- In area with heavy snowfall, if the inlet and outlet of the outdoor unit is blocked with snow, it might become difficult to get warm, and it is likely to cause product malfunction. Construct a canopy and a pedestal, or place the unit on a high stand that is locally installed.



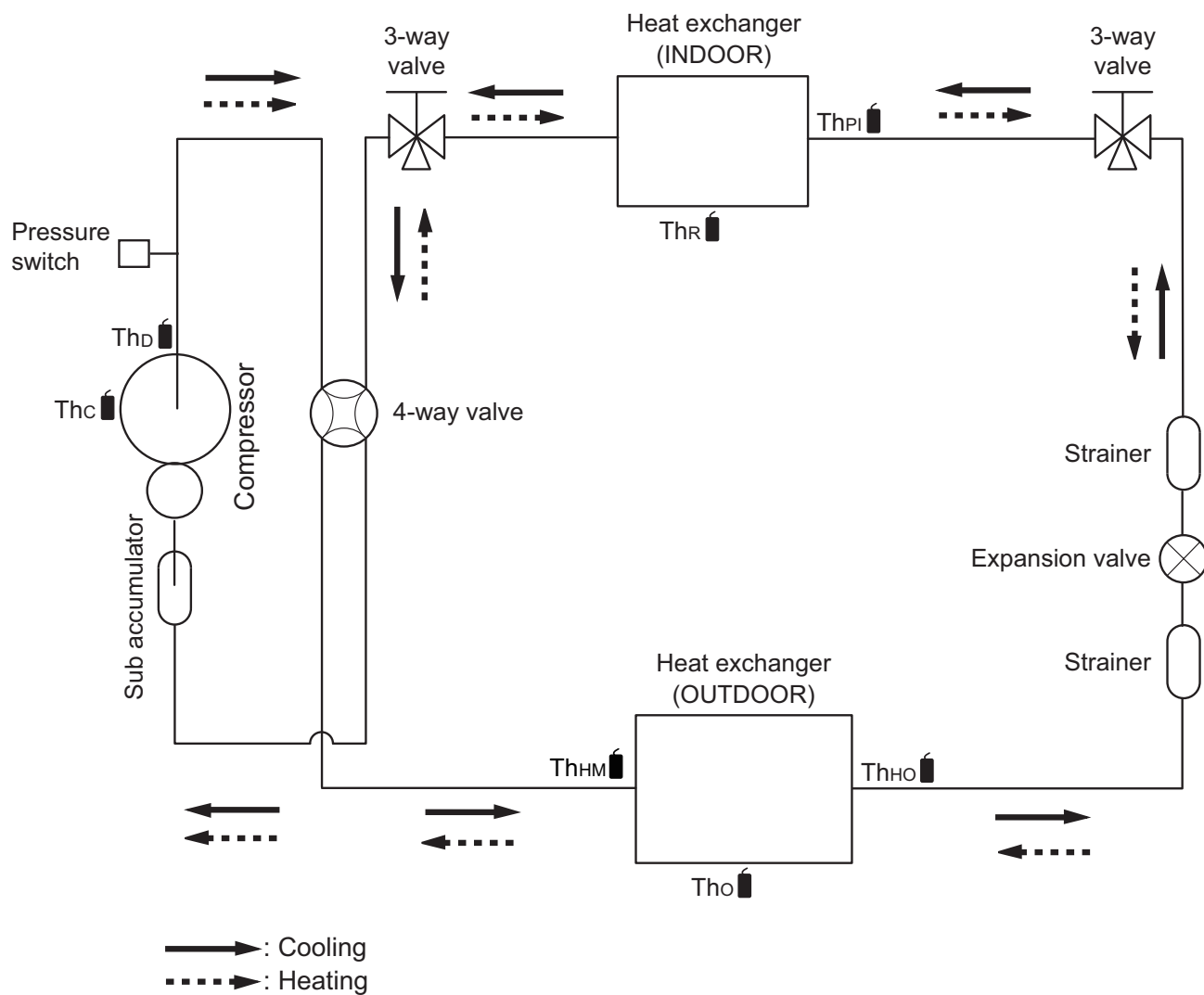
## 4. Refrigerant circuit

### 4-1. Model: AOUH18LUAS1



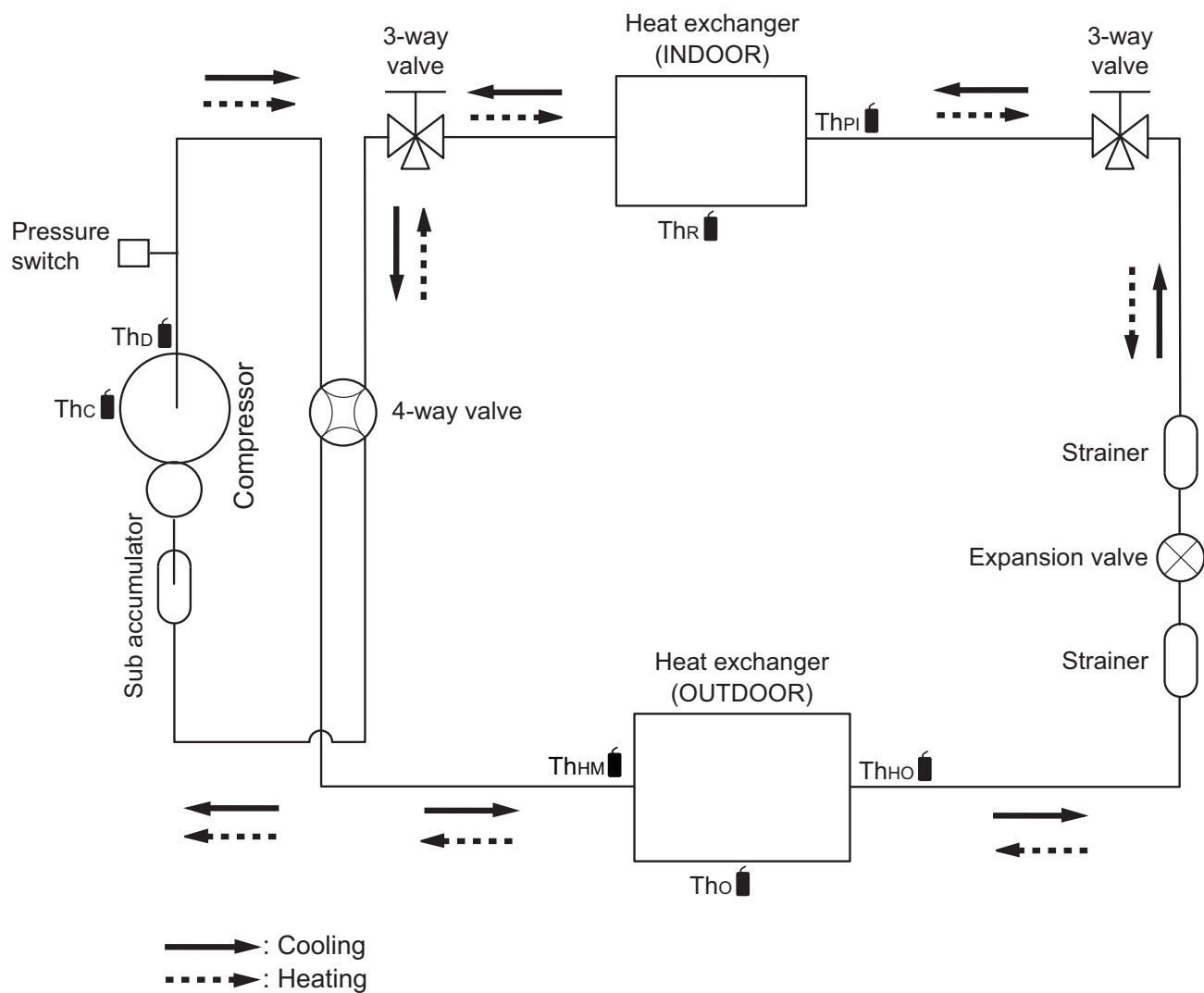
- $Th_c$  : Thermistor (Compressor temperature)  
 $Th_D$  : Thermistor (Discharge temperature)  
 $Th_{HM}$  : Thermistor (Heat exchanger middle temperature)  
 $Th_o$  : Thermistor (Outdoor temperature)  
 $Th_{HO}$  : Thermistor (Heat exchanger out temperature)  
 $Th_{PI}$  : Thermistor (Pipe temperature)  
 $Th_R$  : Thermistor (Room temperature)

## 4-2. Model: AOUH24LUAS1



- Thc : Thermistor (Compressor temperature)  
 Thd : Thermistor (Discharge temperature)  
 ThHM : Thermistor (Heat exchanger middle temperature)  
 Tho : Thermistor (Outdoor temperature)  
 ThHO : Thermistor (Heat exchanger out temperature)  
 ThPI : Thermistor (Pipe temperature)  
 ThR : Thermistor (Room temperature)

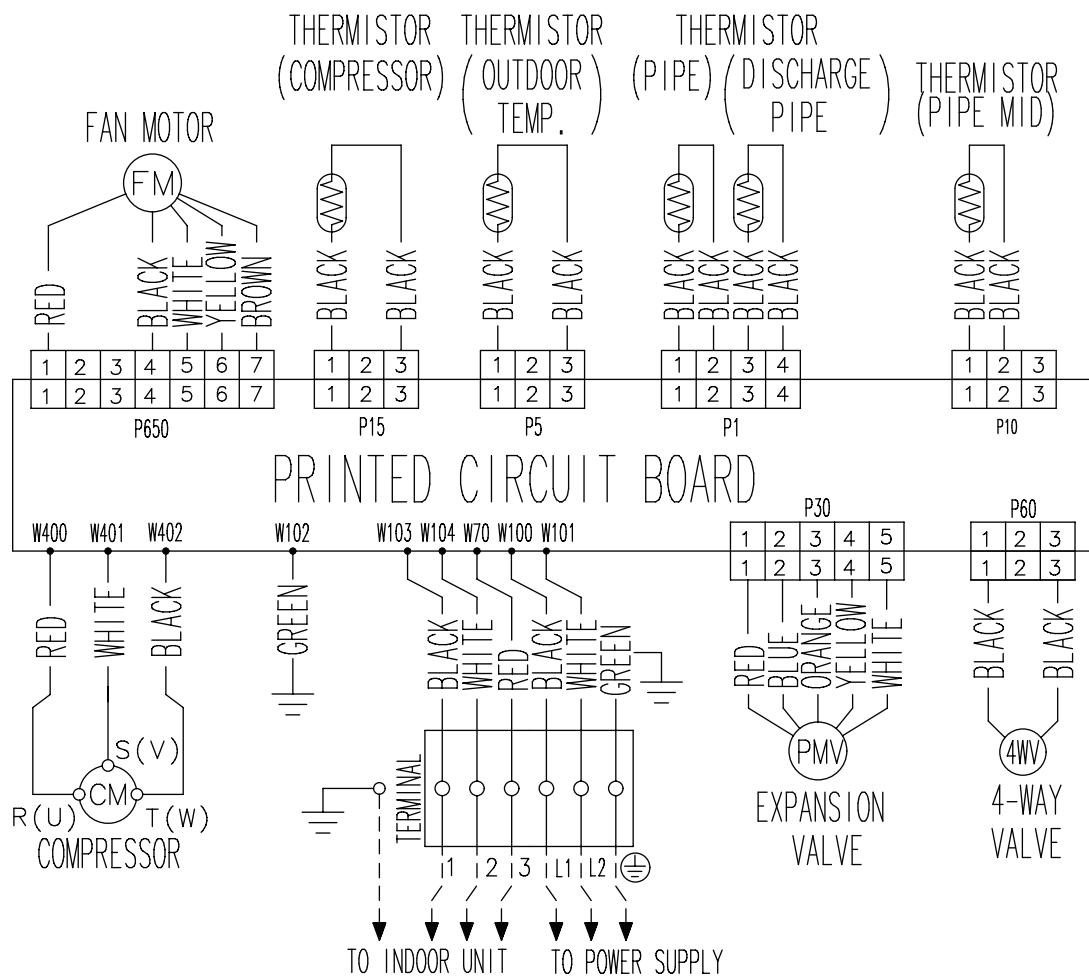
## 4-3. Models: AOUH30LUAS1 and AOUH36LUAS1



- Thc : Thermistor (Compressor temperature)  
 Thd : Thermistor (Discharge temperature)  
 ThHM : Thermistor (Heat exchanger middle temperature)  
 Tho : Thermistor (Outdoor temperature)  
 ThHO : Thermistor (Heat exchanger out temperature)  
 ThPI : Thermistor (Pipe temperature)  
 ThR : Thermistor (Room temperature)

## 5. Wiring diagrams

### 5-1. Model: AOUH18LUAS1

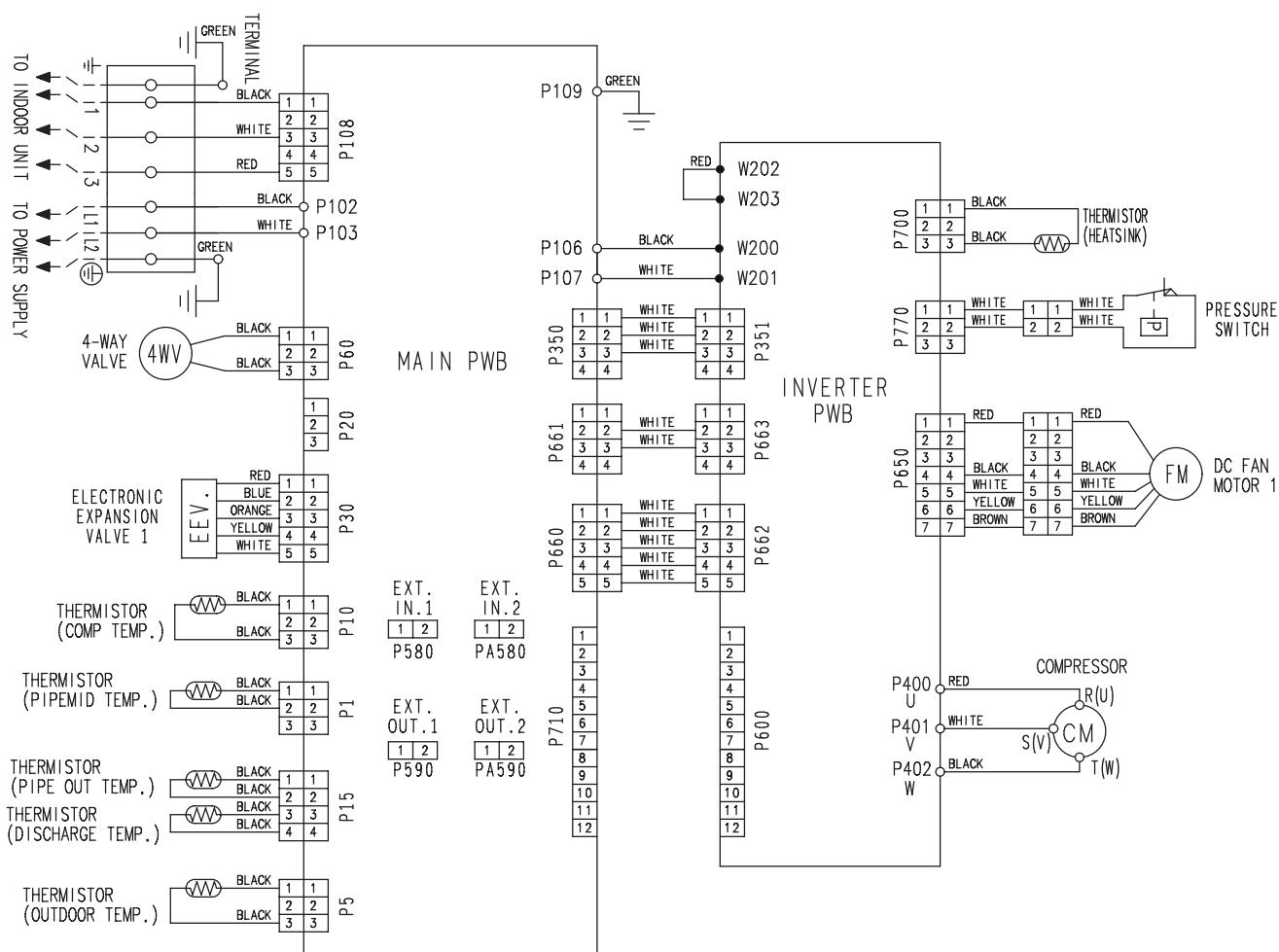


**OUTDOOR UNIT  
AOUH18-36LUAS1**

## 5-2. Models: AOUE24LUAS1, AOUE30LUAS1, and AOUE36LUAS1

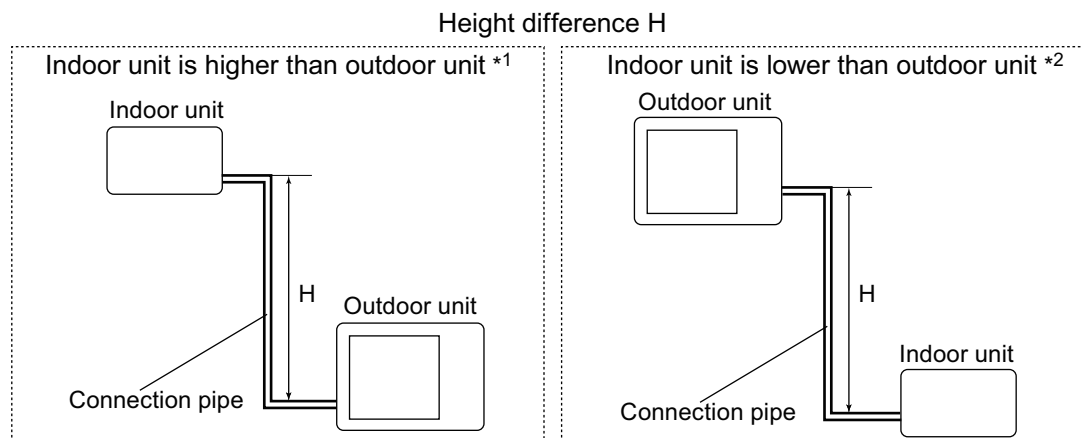
OUTDOOR UNIT  
AOUE18-36LUAS1

OUTDOOR UNIT  
AOUE18-36LUAS1





## 6. Capacity compensation rate for pipe length and height difference



### 6-1. Model: AOUH18LUAS1

**NOTE:** Values mentioned in the table are calculated based on the maximum capacity.

| COOLING             |  | Pipe length |     |       |       |       |       |       |       |       |
|---------------------|--|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
|                     |  | m           |     | 5     | 7.5   | 10    | 15    | 20    | 25    | 30    |
|                     |  |             | ft  | 16    | 25    | 33    | 49    | 66    | 82    | 98    |
| Height difference H | Indoor unit is higher than outdoor unit *1 | 15          | 49  | —     | —     | —     | 0.951 | 0.950 | 0.947 | 0.941 |
|                     |  | 10          | 33  | —     | —     | 0.979 | 0.967 | 0.966 | 0.962 | 0.956 |
|                     |  | 7.5         | 25  | —     | 0.988 | 0.983 | 0.971 | 0.970 | 0.966 | 0.960 |
|                     |  | 5           | 16  | 0.994 | 0.992 | 0.987 | 0.975 | 0.974 | 0.970 | 0.964 |
|                     | Indoor unit is lower than outdoor unit *2  | 0           | 0   | 1.002 | 1.000 | 0.995 | 0.983 | 0.982 | 0.978 | 0.972 |
|                     |  | -5          | -16 | 1.002 | 1.000 | 0.995 | 0.983 | 0.982 | 0.978 | 0.972 |
|                     |  | -7.5        | -25 | —     | 1.000 | 0.995 | 0.983 | 0.982 | 0.978 | 0.972 |
|                     |  | -10         | -33 | —     | —     | 0.995 | 0.983 | 0.982 | 0.978 | 0.972 |
|                     |  | -15         | -49 | —     | —     | —     | 0.983 | 0.982 | 0.978 | 0.972 |

| HEATING             |  | Pipe length |     |       |       |       |       |       |       |       |
|---------------------|--|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
|                     |  | m           |     | 5     | 7.5   | 10    | 15    | 20    | 25    | 30    |
|                     |  |             | ft  | 16    | 25    | 33    | 49    | 66    | 82    | 98    |
| Height difference H | Indoor unit is higher than outdoor unit *1 | 15          | 49  | —     | —     | —     | 0.994 | 0.979 | 0.949 | 0.919 |
|                     |  | 10          | 33  | —     | —     | 1.012 | 0.994 | 0.979 | 0.949 | 0.919 |
|                     |  | 7.5         | 25  | —     | 1.000 | 1.012 | 0.994 | 0.979 | 0.949 | 0.919 |
|                     |  | 5           | 16  | 0.969 | 1.000 | 1.012 | 0.994 | 0.979 | 0.949 | 0.919 |
|                     | Indoor unit is lower than outdoor unit *2  | 0           | 0   | 0.969 | 1.000 | 1.012 | 0.994 | 0.979 | 0.949 | 0.919 |
|                     |  | -5          | -16 | 0.964 | 0.995 | 1.007 | 0.989 | 0.974 | 0.944 | 0.915 |
|                     |  | -7.5        | -25 | —     | 0.993 | 1.004 | 0.986 | 0.972 | 0.942 | 0.911 |
|                     |  | -10         | -33 | —     | —     | 1.002 | 0.984 | 0.969 | 0.940 | 0.909 |
|                     |  | -15         | -49 | —     | —     | —     | 0.974 | 0.959 | 0.930 | 0.899 |

## 6-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

**NOTE:** Values mentioned in the table are calculated based on the maximum capacity.

| COOLING             |  | Pipe length |     |       |       |       |       |       |       |       |
|---------------------|--|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
|                     |  | m           | ft  | 5     | 7.5   | 10    | 20    | 30    | 40    | 50    |
|                     |  |             |     | 16    | 24    | 32    | 65    | 98    | 131   | 164   |
| Height difference H | Indoor unit is higher than outdoor unit *1 | 30          | 98  | —     | —     | —     | —     | 0.913 | 0.899 | 0.881 |
|                     |  | 20          | 65  | —     | —     | —     | 0.941 | 0.929 | 0.914 | 0.896 |
|                     |  | 10          | 32  | —     | —     | 0.974 | 0.957 | 0.944 | 0.930 | 0.911 |
|                     |  | 7.5         | 24  | —     | 0.988 | 0.978 | 0.960 | 0.948 | 0.934 | 0.914 |
|                     |  | 5           | 16  | 0.998 | 0.992 | 0.982 | 0.964 | 0.952 | 0.938 | 0.919 |
|                     |  | 0           | 0   | 1.000 | 1.000 | 0.989 | 0.972 | 0.960 | 0.945 | 0.926 |
|                     | Indoor unit is lower than outdoor unit *2  | -5          | -16 | 1.000 | 1.000 | 0.989 | 0.972 | 0.960 | 0.945 | 0.926 |
|                     |  | -7.5        | -24 | —     | 1.000 | 0.989 | 0.972 | 0.960 | 0.945 | 0.926 |
|                     |  | -10         | -32 | —     | —     | 0.989 | 0.972 | 0.960 | 0.945 | 0.926 |
|                     |  | -20         | -65 | —     | —     | —     | 0.972 | 0.960 | 0.945 | 0.926 |
|                     |  | -30         | -98 | —     | —     | —     | —     | 0.960 | 0.945 | 0.926 |

| HEATING             |  | Pipe length |     |       |       |       |       |       |       |       |
|---------------------|--|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
|                     |  | m           | ft  | 5     | 7.5   | 10    | 20    | 30    | 40    | 50    |
|                     |  |             |     | 16    | 24    | 32    | 65    | 98    | 131   | 164   |
| Height difference H | Indoor unit is higher than outdoor unit *1 | 30          | 98  | —     | —     | —     | —     | 0.939 | 0.922 | 0.907 |
|                     |  | 20          | 65  | —     | —     | —     | 0.963 | 0.939 | 0.922 | 0.907 |
|                     |  | 10          | 32  | —     | —     | 0.999 | 0.963 | 0.939 | 0.922 | 0.907 |
|                     |  | 7.5         | 24  | —     | 1.000 | 0.999 | 0.963 | 0.939 | 0.922 | 0.907 |
|                     |  | 5           | 16  | 1.000 | 1.000 | 0.999 | 0.963 | 0.939 | 0.922 | 0.907 |
|                     |  | 0           | 0   | 1.000 | 1.000 | 0.999 | 0.963 | 0.939 | 0.922 | 0.907 |
|                     | Indoor unit is lower than outdoor unit *2  | -5          | -16 | 1.000 | 0.995 | 0.995 | 0.958 | 0.934 | 0.917 | 0.903 |
|                     |  | -7.5        | -24 | —     | 0.983 | 0.992 | 0.955 | 0.932 | 0.915 | 0.900 |
|                     |  | -10         | -32 | —     | —     | 0.990 | 0.953 | 0.929 | 0.912 | 0.898 |
|                     |  | -20         | -65 | —     | —     | —     | 0.943 | 0.920 | 0.903 | 0.889 |
|                     |  | -30         | -98 | —     | —     | —     | —     | 0.911 | 0.894 | 0.880 |

OUTDOOR UNIT  
AOUH18-36LUAS1

OUTDOOR UNIT  
AOUH18-36LUAS1

## 7. Additional charge calculation

### 7-1. Model: AOUH18LUAS1

|                    |       |            |
|--------------------|-------|------------|
| Refrigerant type   |       | R410A      |
| Refrigerant amount | lb oz | 2 lb 12 oz |
|                    | g     | 1,250      |

#### ■ Refrigerant charge

|                   |    |            |     |           |                        |
|-------------------|----|------------|-----|-----------|------------------------|
| Total pipe length | ft | 66 or less | 82  | 98 (Max.) | 0.22 oz/ft<br>(20 g/m) |
|                   | m  | 20 or less | 25  | 30 (Max.) |                        |
| Additional charge | oz | 0          | 1.0 | 2.0       |                        |
|                   | g  | 0          | 100 | 200       |                        |

### 7-2. Model: AOUH24LUAS1

|                       |       |            |
|-----------------------|-------|------------|
| Refrigerant type      |       | R410A      |
| Factory charge amount | lb oz | 4 lb 10 oz |
|                       | g     | 2,100      |

#### ■ Refrigerant charge

|                          |    |            |     |     |     |     |       |            |                        |
|--------------------------|----|------------|-----|-----|-----|-----|-------|------------|------------------------|
| Total pipe length        | ft | 66 or less | 82  | 98  | 114 | 131 | 147   | 164 (Max.) | 0.43 oz/ft<br>(40 g/m) |
|                          | m  | 20 or less | 25  | 30  | 35  | 40  | 45    | 50 (Max.)  |                        |
| Additional charge amount | oz | 0          | 7   | 14  | 21  | 28  | 35    | 42         |                        |
|                          | g  | 0          | 200 | 400 | 600 | 800 | 1,000 | 1,200      |                        |

### 7-3. Models: AOUH30LUAS1 and AOUH36LUAS1

|                       |       |           |
|-----------------------|-------|-----------|
| Refrigerant type      |       | R410A     |
| Factory charge amount | lb oz | 5 lb 8 oz |
|                       | g     | 2,500     |

#### ■ Refrigerant charge

|                          |    |            |     |     |     |     |       |            |                        |
|--------------------------|----|------------|-----|-----|-----|-----|-------|------------|------------------------|
| Total pipe length        | ft | 66 or less | 82  | 98  | 114 | 131 | 147   | 164 (Max.) | 0.43 oz/ft<br>(40 g/m) |
|                          | m  | 20 or less | 25  | 30  | 35  | 40  | 45    | 50 (Max.)  |                        |
| Additional charge amount | oz | 0          | 7   | 14  | 21  | 28  | 35    | 42         |                        |
|                          | g  | 0          | 200 | 400 | 600 | 800 | 1,000 | 1,200      |                        |

## 8. Airflow

### 8-1. Model: AOUH18LUAS1

#### ● Cooling

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 2,370 |
| l/s               | 658   |
| CFM               | 1,395 |

#### ● Heating

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 2,480 |
| l/s               | 689   |
| CFM               | 1,460 |

### 8-2. Model: AOUH24LUAS1

#### ● Cooling

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 3,715 |
| l/s               | 1,032 |
| CFM               | 2,187 |

#### ● Heating

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 3,715 |
| l/s               | 1,032 |
| CFM               | 2,187 |

### 8-3. Model: AOUH30LUAS1

#### ● Cooling

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 3,910 |
| l/s               | 1,086 |
| CFM               | 2,301 |

#### ● Heating

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 3,770 |
| l/s               | 1,047 |
| CFM               | 2,219 |

## 8-4. Model: AOUEH36LUAS1

### ● Cooling

|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 4,250 |
| l/s               | 1,181 |
| CFM               | 2,502 |

### ● Heating

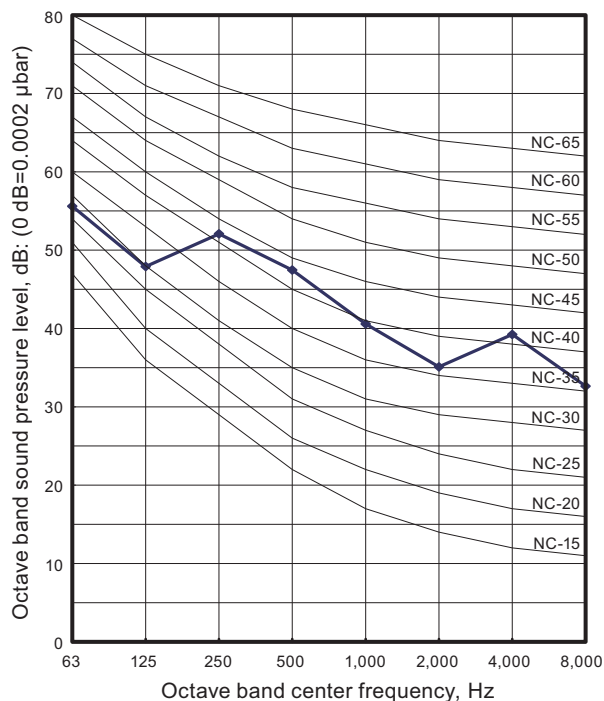
|                   |       |
|-------------------|-------|
| m <sup>3</sup> /h | 4,130 |
| l/s               | 1,147 |
| CFM               | 2,431 |

## 9. Operation noise (sound pressure)

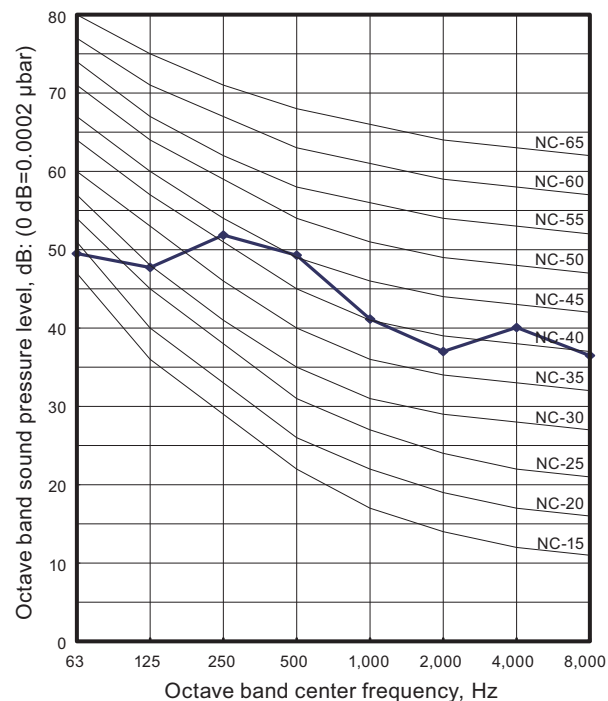
### 9-1. Noise level curve

#### ■ AOUH18LUAS1

##### ● Cooling

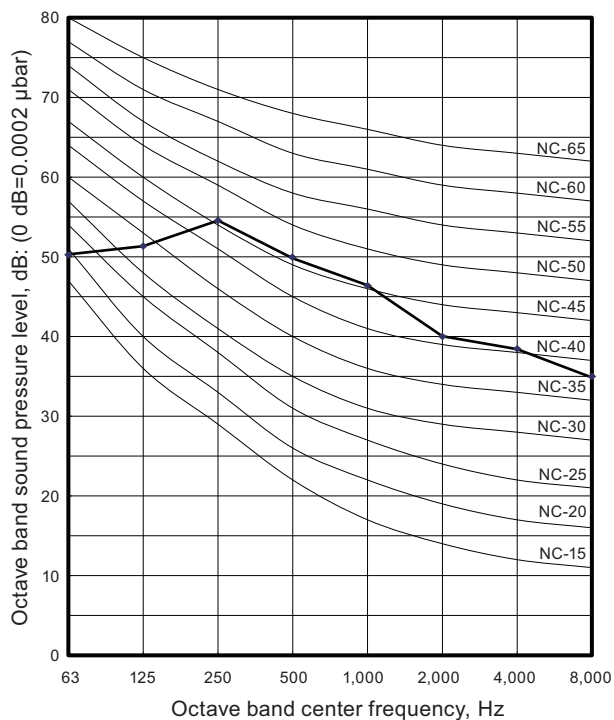


##### ● Heating

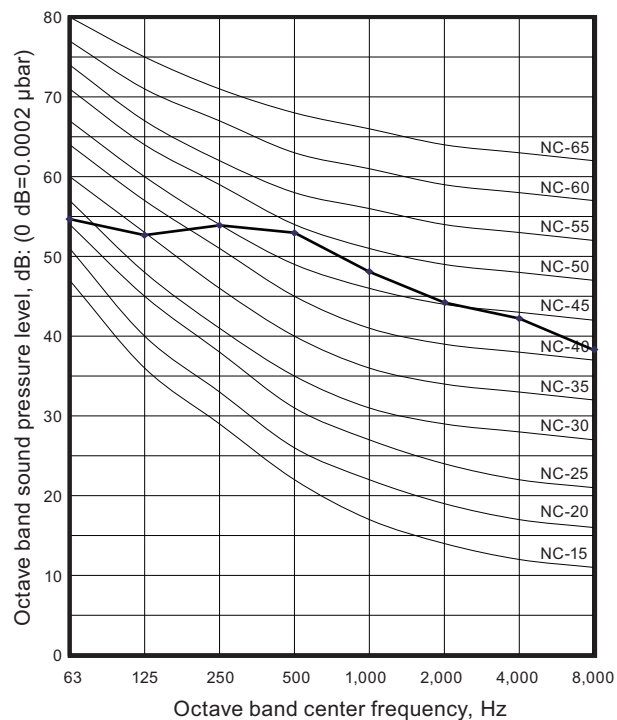


#### ■ AOUH24LUAS1

##### ● Cooling

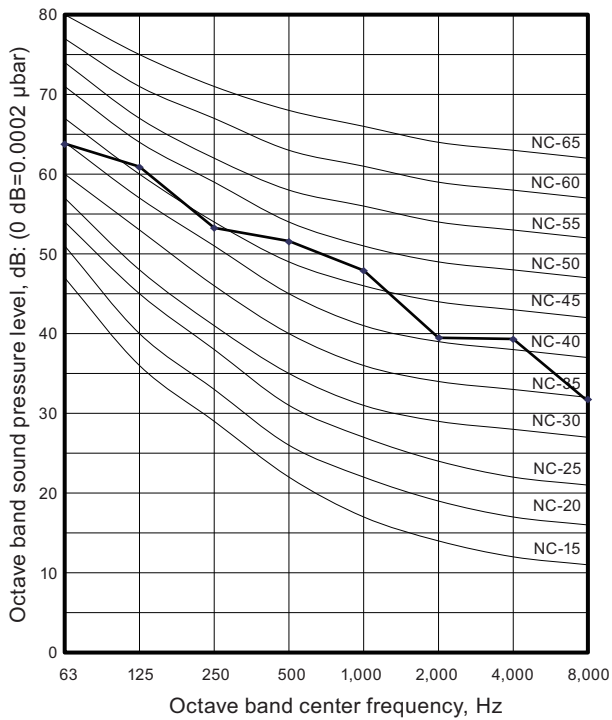


##### ● Heating

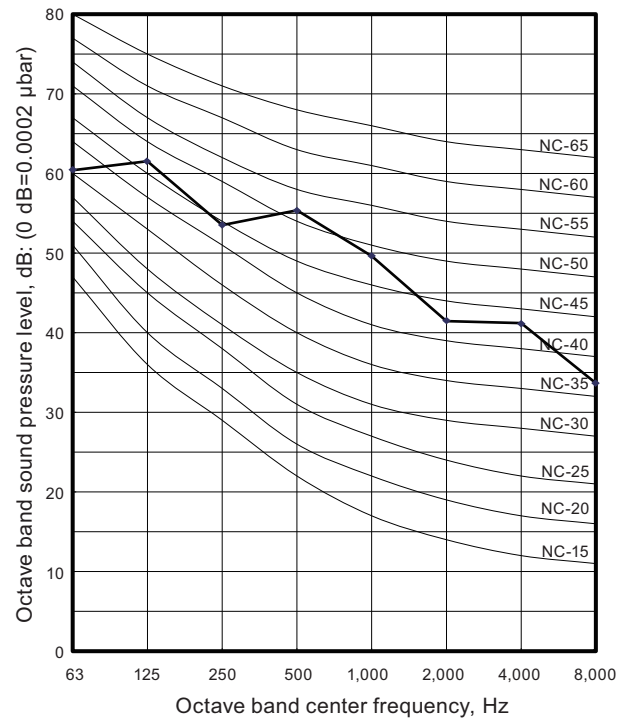


## ■ AOUH30LUAS1

### ● Cooling

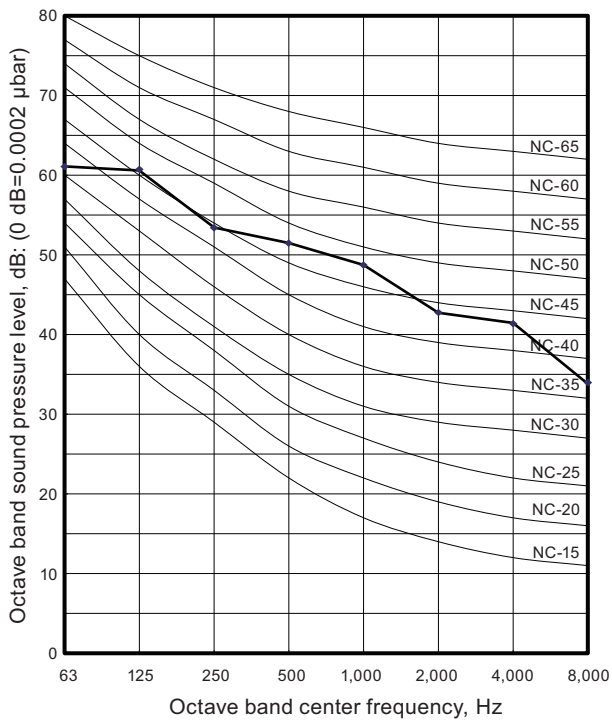


### ● Heating

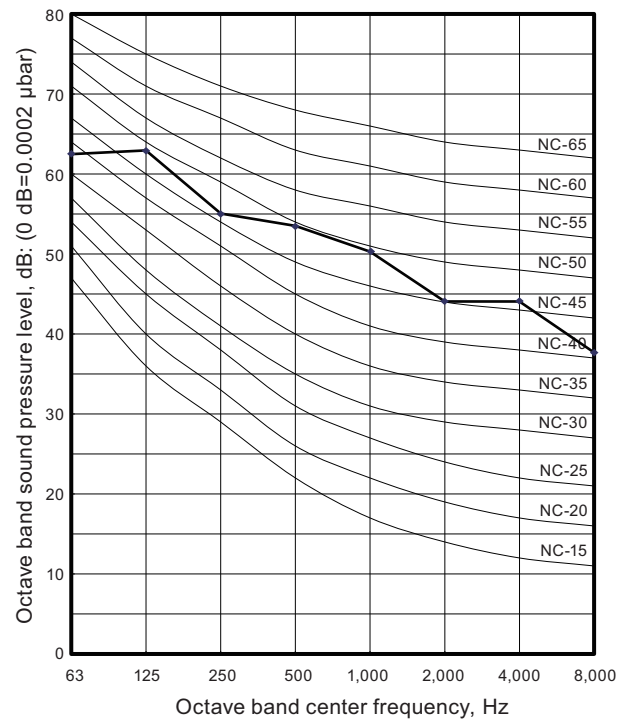


## ■ AOUH36LUAS1

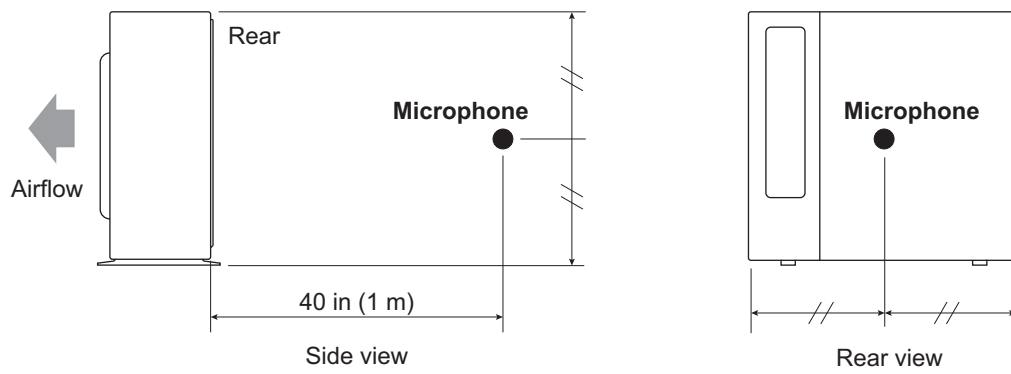
### ● Cooling



### ● Heating



## 9-2. Sound level check point



**NOTE:** Detailed shape of the actual outdoor unit might be slightly different from the one illustrated above.



## 10. Electrical characteristics

| Model name       |                    |                       | AOUH18LUAS1 | AOUH24LUAS1 |
|------------------|--------------------|-----------------------|-------------|-------------|
| Power supply     | Voltage            | V                     | 208/230     |             |
|                  | Frequency          | Hz                    | 60          |             |
| MCA *1           |                    | A                     | 18.1        | 19.2        |
| Starting current |                    | A                     | 8.1         | 10.3        |
| Wiring spec.*2   | MAX. CKT. BKR*3    |                       | 20          |             |
|                  | Power cable        |                       | 14          | 12          |
|                  | Connection cable*4 | Cross-sectional area  | 14          |             |
|                  |                    | Limited wiring length | 102 (31)    | 167 (51)    |

| Model name       |                    |                       | AOUH30LUAS1 | AOUH36LUAS1 |
|------------------|--------------------|-----------------------|-------------|-------------|
| Power supply     | Voltage            | V                     | 208/230     |             |
|                  | Frequency          | Hz                    | 60          |             |
| MCA*1            |                    | A                     | 22.2        | 24.1        |
| Starting current |                    | A                     | 13.4        | 16.5        |
| Wiring spec.*2   | MAX. CKT. BKR*3    |                       | 25          |             |
|                  | Power cable        |                       | 12          |             |
|                  | Connection cable*4 | Cross-sectional area  | 14          |             |
|                  |                    | Limited wiring length | 167 (51)    |             |

### NOTES:

- \*1: Minimum Circuit Ampacity (Calculation based on UL1995)
- \*2: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005.  
As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.
- \*3: Maximum Circuit Breaker
- \*4: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.

# 11. Safety devices

| Type of protection    | Protection form   |          | Model   |   |
|-----------------------|---|----------|---|---|
|                       |   |          | AOUH18LUAS1   | AOUH24LUAS1   |
| Circuit protection    | Current fuse (PCB*)   |          | 250 V, 20 A   |   |
|                       |   |          | 250 V, 5 A  | 250 V, 3.15 A   |
|                       |   |          | 250 V, 3.15 A   | 250 V, 10 A × 2   |
| Fan motor protection  | Thermal protection program  | Activate | 257 ±18°F (125 ±10°C)<br>Fan motor stop                         | 251.6 ±16.2°F (122 ±9°C)<br>Fan motor stop  |
|                       |   | Reset    | 248 ±18°F (120 ±10°C)<br>Fan motor restart                      | 240.8 <sup>+18.0</sup> <sub>-16.2</sub> °F (116 <sup>+10</sup> <sub>-9</sub> °C)<br>Fan motor restart |
| Compressor protection | Thermal protection program (Compressor temp.)                             | Activate | 226°F (108°C)<br>Compressor stop                                |   |
|                       |   | Reset    | After 3 minutes, and 176°F (80°C) or less<br>Compressor restart |   |
|                       | Thermal protection program (Discharge temp.)                              | Activate | 230°F (110°C)<br>Compressor stop                                |   |
|                       |   | Reset    | After 7 minutes<br>Compressor restart                           |   |
|                       | Thermal protection program (Outdoor temp.)<br>(Only in COOL and DRY mode) | Activate | 5°F (-15°C)<br>Compressor stop                                  | -13°F (-25°C)<br>Compressor stop  |
|                       |   | Reset    | 14°F (-10°C)<br>Compressor restart                              | -4°F (-20°C)<br>Compressor restart  |

| Type of protection    | Protection form   |          | Model  |             |
|-----------------------|---|----------|--|-------------|
|                       |   |          | AOUH30LUAS1  | AOUH36LUAS1 |
| Circuit protection    | Current fuse (PCB*)   |          | 250 V, 25 A or 30 A  |             |
|                       |   |          | 250 V, 3.15 A  |             |
|                       |   |          | 250 V, 10 A × 2  |             |
| Fan motor protection  | Thermal protection program  | Activate | 302 ±27°F (150 ±15°C)<br>Fan motor stop                          |             |
|                       |   | Reset    | 248 ±27°F (120 ±15°C)<br>Fan motor restart                       |             |
| Compressor protection | Thermal protection program (Compressor temp.)                             | Activate | 226°F (108°C)<br>Compressor stop                                 |             |
|                       |   | Reset    | After 3 minutes, and 176 °F (80°C) or less<br>Compressor restart |             |
|                       | Thermal protection program (Discharge temp.)                              | Activate | 230°F (110°C)<br>Compressor stop                                 |             |
|                       |   | Reset    | After 7 minutes<br>Compressor restart                            |             |
|                       | Thermal protection program (Outdoor temp.)<br>(Only in COOL and DRY mode) | Activate | -13°F (-25°C)<br>Compressor stop                                 |             |
|                       |   | Reset    | -4°F (-20°C)<br>Compressor restart                               |             |

\*PCB: Printed Circuit Board

## 12. External input and output (for 24-36 model)

With using external input and output functions, this product can be operated inter-connectedly with an external device.

| Connector | Input          | Output            | Remarks   |
|-----------|----------------|-------------------|---|
| P580      | Low noise mode | —                 | See external input/output settings for details. |
| PA580     | Peak cut mode  | —                 |   |
| P590      | —              | Error status      |   |
| PA590     | —              | Compressor status |   |

### 12-1. External input

With using external input function, on/off status of “Low noise mode” and “Peak cut mode” can be specified by the external signal.

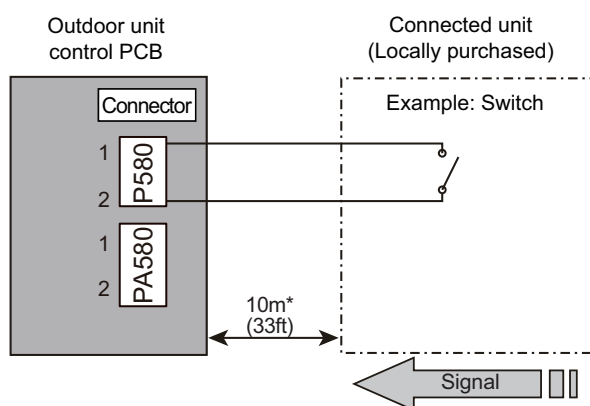
#### ■ Low noise mode

In following condition, the operating noise of the outdoor unit reduces comparing from the one in normal operating condition:

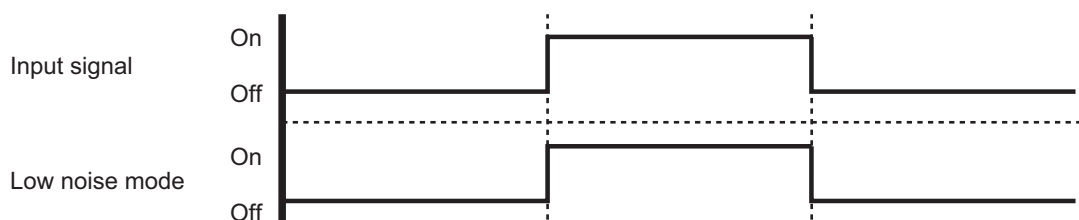
The air conditioner is set to the “Low noise mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

**NOTE:** Product performance may drop depending on some conditions such as the outdoor temperature.

#### • Circuit diagram example



- Contact capacity: DC 24 V or more, 10 mA or more.
- \*: Make the distance from the PCB to the connected unit within 33 ft (10 m).
- Construct a circuit as shown in this figure with using optional parts mentioned below.
- Input signal: On in “Low noise mode”
- Input signal: Off in normal operation
- To set the level of “Low noise mode,” refer to ["Low noise mode"](#) on page 115 (under “Local setting procedure”).



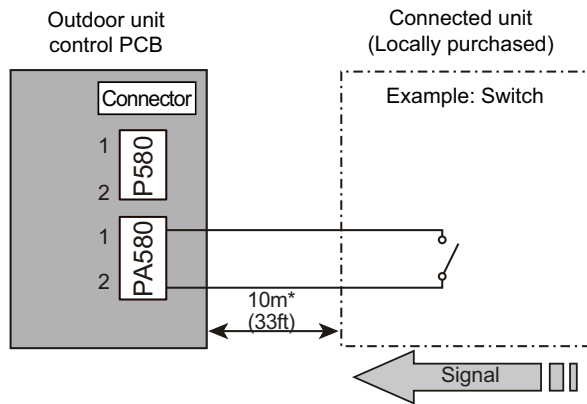
#### • Optional part

| Part name            | Model name | Exterior                |
|----------------------|------------|-------------------------|
| External Connect Kit | UTY-XWZXZ3 | External input wire<br> |

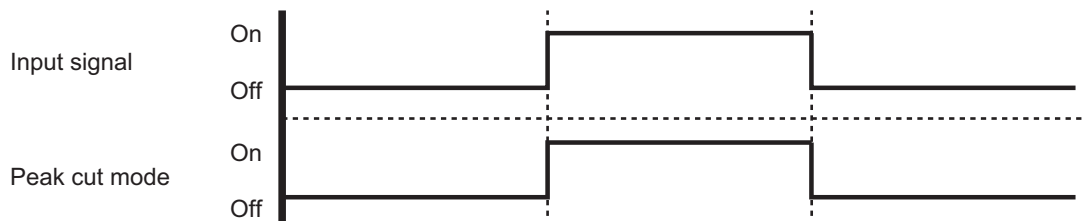
## ■ Peak cut mode

By performing following on-site work, operation that suppresses the current value can be enabled: The air conditioner is set to the “Peak cut mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

### • Circuit diagram example



- Contact capacity: DC 24 V or more, 10 mA or more.
- \*: Make the distance from the PCB to the connected unit within 33 ft (10 m).
- Construct a circuit as shown in this figure with using optional parts mentioned below.
- Input signal: On in “Peak cut mode”
- Input signal: Off in normal operation
- To set the level of “Peak cut mode,” refer to **“Peak cut mode”** on page 116 (under “Local setting procedure”).



### • Optional part

| Part name            | Model name | Exterior                |
|----------------------|------------|-------------------------|
| External Connect Kit | UTY-XWZXZ3 | External input wire<br> |

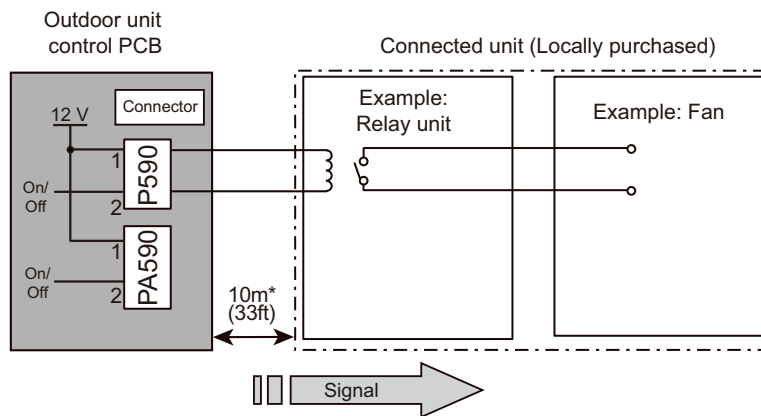
## 12-2. External output

With using external output function, some status signals are transmitted to the control PCB, and the related LED lamp indicates the status of this product.

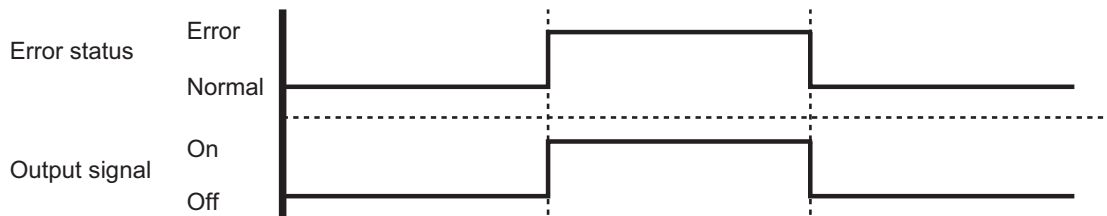
### ■ Error status output

Signal on air conditioner error status is generated when a malfunction occurs.

#### • Circuit diagram example



- Output voltage (Vcc): DC 12 V 50 mA or less
- \*: Make the distance from the PCB to the connected unit within 33 ft (10 m).



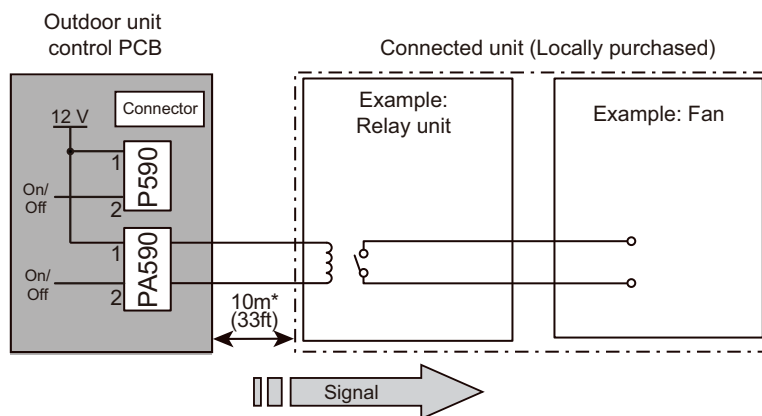
#### • Optional part

| Part name            | Model name | Exterior                 |
|----------------------|------------|--------------------------|
| External Connect Kit | UTY-XWZXZ3 | External output wire<br> |

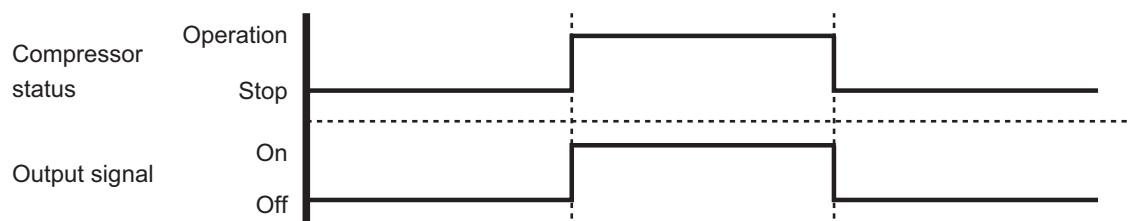
## Compressor status output

Signal on compressor operation status is generated when the compressor is running.

### • Circuit diagram example

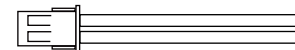


- Output voltage (Vcc): DC 12 V 50 mA or less
- \*: Make the distance from the PCB to the connected unit within 33 ft (10 m).



### • Optional part

| Part name            | Model name | Exterior             |
|----------------------|------------|----------------------|
| External Connect Kit | UTY-XWZXZ3 | External output wire |



## 13. Function settings (for 24-36 model)

Perform appropriate function setting locally according to the installation environment.

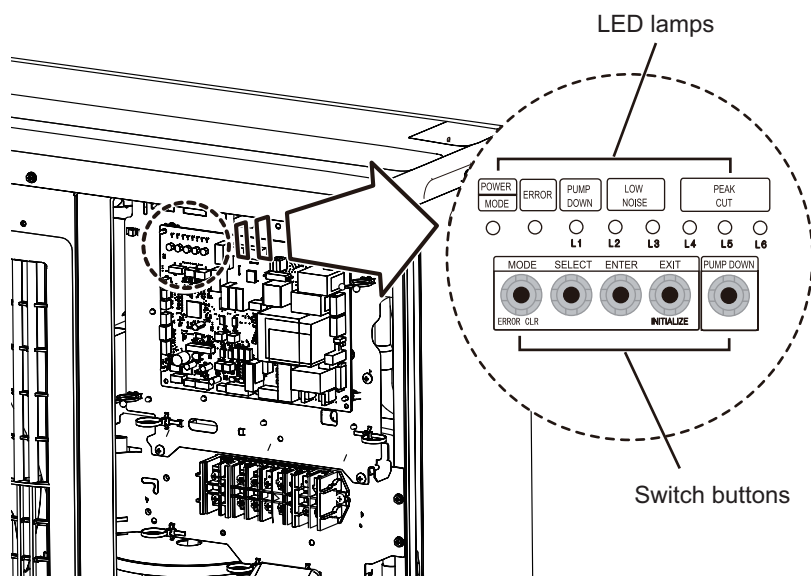
**NOTE:** Incorrect settings can cause a product malfunction.

### ⚠ CAUTION

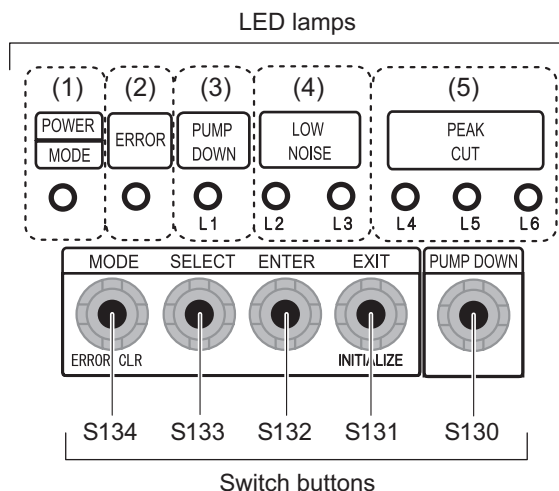
- Before setting up the switch buttons, discharge the static electricity from your body.
- Never touch the terminals or the patterns on the parts that are mounted on the PCB.

### 13-1. Control PCB and switch buttons location

Control PCB of the outdoor unit is located as shown in the following figure.



## Switch buttons and the functions



| LED lamp |                                |        | Function or operation method  |
|----------|--------------------------------|--------|---|
| (1)      | POWER/MODE                     | Green  | Lights on while power on.<br>Blinks to show the local setting on the outdoor unit or the error code.                              |
| (2)      | ERROR                          | Red    | Blinks during error operation.  |
| (3)      | PUMP DOWN (L1)                 | Orange | Lights on during pump down operation.   |
| (4)      | LOW NOISE MODE (L2 and L3)     | Orange | Lights on during "Low noise mode" when local setting is activated. (Light pattern of L2 and L3 indicates the low noise level.)    |
| (5)      | PEAK CUT MODE (L4, L5, and L6) | Orange | Lights on during "Peak cut mode" when local setting is activated. (Light pattern of L4, L5, and L6 indicates the peak cut level.) |

| Switch button |           | Function or operation method  |
|---------------|-----------|---|
| S134          | MODE      | Switches between "Local setting" and "Error code display".                      |
| S133          | SELECT    | Switches between the individual "Local settings" and the "Error code displays". |
| S132          | ENTER     | Switches between the individual "Local settings" and the "Error code displays". |
| S131          | EXIT      | Returns to "Operation status display".  |
| S130          | PUMP DOWN | Starts the pump down operation.   |



## 13-2. Local setting procedure

**NOTE:** Before performing the function setting, be sure to stop the operation of the air conditioner.

### Low noise mode

1. Press the MODE switch button (S134) for 3 seconds or more to switch to "Local setting mode".
2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

| POWER<br>MODE       | ERROR | PUMP<br>DOWN<br>(L1) | LOW NOISE<br>(L2) (L3) |   | PEAK CUT<br>(L4) (L5) (L6) |   |   |
|---------------------|-------|----------------------|------------------------|---|----------------------------|---|---|
| Blinks<br>(9 times) | ○     | ○                    | ○                      | ○ | ○                          | ○ | ○ |

Sign "○": Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.

| LOW NOISE<br>MODE | LOW NOISE |       |
|-------------------|-----------|-------|
|                   | (L2)      | (L3)  |
|                   | ○         | Blink |

4. Press the ENTER switch button (S132).

| LOW NOISE<br>MOD E | LOW NOISE |      |
|--------------------|-----------|------|
|                    | (L2)      | (L3) |
|                    | ○         | ●    |

Sign "●": Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

| MODE 1: Low<br>MODE 2: Lower | PEAK CUT |       |       |
|------------------------------|----------|-------|-------|
|                              | (L4)     | (L5)  | (L6)  |
|                              | ○        | ○     | Blink |
|                              | ○        | Blink | ○     |

6. Press the ENTER switch button (S132) and fix it.

| MODE 1: Low<br>MODE 2: Lower | PEAK CUT |      |      |
|------------------------------|----------|------|------|
|                              | (L4)     | (L5) | (L6) |
|                              | ○        | ○    | ●    |
|                              | ○        | ●    | ○    |

7. To return to "Operating status display (Normal operation)", press the EXIT switch button (S131).

**In case of missing how many times you pressed the SELECT and ENTER switch buttons:**

1. To return to "Operation status display (Normal operation)", press the EXIT switch button once.
2. Restart from the beginning of setting procedure.

## ■ Peak cut mode

1. Press the MODE switch button (S134) for 3 seconds or more to switch to "Local setting mode".
2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

| POWER<br>MODE       | ERROR | PUMP<br>DOWN<br>(L1) | LOW NOISE<br>(L2) (L3) |   | PEAK CUT<br>(L4) (L5) (L6) |   |   |
|---------------------|-------|----------------------|------------------------|---|----------------------------|---|---|
| Blinks<br>(9 times) | ○     | ○                    | ○                      | ○ | ○                          | ○ | ○ |

Sign "○": Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.

|                  |           |      |
|------------------|-----------|------|
| PEAK CUT<br>MODE | LOW NOISE |      |
|                  | (L2)      | (L3) |
|                  | Blink     | ○    |

4. Press the ENTER switch button (S132).

|                  |           |      |
|------------------|-----------|------|
| PEAK CUT<br>MODE | LOW NOISE |      |
|                  | (L2)      | (L3) |
|                  | ●         | ○    |

Sign "●": Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

|                            | PEAK CUT |       |       |
|----------------------------|----------|-------|-------|
|                            | (L4)     | (L5)  | (L6)  |
| 0 % of rated input ratio   | ○        | ○     | Blink |
| 50 % of rated input ratio  | ○        | Blink | ○     |
| 75 % of rated input ratio  | ○        | Blink | Blink |
| 100 % of rated input ratio | Blink    | ○     | ○     |

6. Press the ENTER switch button (S132) and fix it.




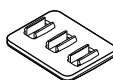
|                            | PEAK CUT |      |      |
|----------------------------|----------|------|------|
|                            | (L4)     | (L5) | (L6) |
| 0 % of rated input ratio   | ○        | ○    | ●    |
| 50 % of rated input ratio  | ○        | ●    | ○    |
| 75 % of rated input ratio  | ○        | ●    | ●    |
| 100 % of rated input ratio | ●        | ○    | ○    |

7. To return to "Operating status display (Normal operation)", press the EXIT switch button (S131).




**NOTE:** When pressed number is lost during setting, you must redo the setting procedure. Return to "Operation status display (Normal operation)" by pressing the EXIT switch button once, and restart from the beginning of the setting procedure.

## 14. Accessories

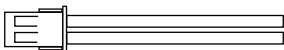
### 14-1. Model: AOUH18LUAS1

| Part name           | Exterior  | Qty | Part name | Exterior  | Qty |
|---------------------|---|-----|-----------|---|-----|
| Installation manual |  | 1   | Cable tie |  | 2   |
| Drain pipe          |  | 1   | Drain cap |  | 5   |

### 14-2. Models: AOUH24LUAS1, AOUH30LUAS1, and AOUH36LUAS1

| Part name           | Exterior   | Qty | Part name | Exterior  | Qty |
|---------------------|--|-----|-----------|---|-----|
| Installation manual |   | 1   | Drain cap |  | 3   |
| Drain pipe          |  | 1   |           |   |     |

## 15. Optional parts

| Exterior  | Part name            | Model name | Summary  |
|---|----------------------|------------|--|
|  | External Connect Kit | UTY-XWZXZ3 | Use to operate the external input and output functions of outdoor unit.<br>(for 24-36 model) |