

# 1. List of functions

## ◆ Basic functions of Outdoor Unit

| Category                              | Functions                               | Z3UW18GFA0 [MU3R19 UE0]<br>Z3UW21GFA0 [MU3R21 UE0]<br>Z4UW24GFA0 [MU4R25 U40]<br>Z4UW27GFA0 [MU4R27 U40]<br>Z5UW30GFA0 [MU5R30 U40] |
|---------------------------------------|---|---|
| Reliability                           | Defrost / Deicing                       | ○   |
|                                       | High pressure switch                    | ○   |
|                                       | Low pressure switch                     | X   |
|                                       | Phase protection                        | X   |
|                                       | Restart delay (3-minutes)               | ○   |
|                                       | Self diagnosis                          | ○   |
|                                       | Soft start                              | ○   |
| Convenience                           | Test function                           | ○   |
|                                       | Night Silent Operation                  | ○   |
|                                       | Wiring Error Check                      | ○   |
|                                       | Peak Control                            | ○   |
|                                       | Mode Lock                               | ○   |
|                                       | Forced Cooling Operation (Outdoor Unit) | ○   |
|                                       | SLC (Smart Load Control)                | ○   |
| Network function                      | Network solution(LGAP)                  | ○   |
| ODU Dry Contact (On/off control only) |   | X   |

### Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

## ◆ Accessory Compatibility List

| Category           | Product                  | Etc        | Z3UW18GFA0 [MU3R19 UE0]<br>Z3UW21GFA0 [MU3R21 UE0]<br>Z4UW24GFA0 [MU4R25 U40]<br>Z4UW27GFA0 [MU4R27 U40]<br>Z5UW30GFA0 [MU5R30 U40] |
|--------------------|--------------------------|------------|---|
| Central Controller | Simple                   | PQCSZ250S0 | AC EZ   |
|                    | AC Ez Touch              | PACEZA000  | AC Ez Touch   |
|                    | AC Smart                 | PACS4B000  | AC Smart IV   |
|                    | ACP                      | PACP4B000  | ACP IV  |
|                    | AC Manager <sup>2)</sup> | PACM4B000  | AC Manager IV   |
|                    |                          | PACM5A000  | AC Manager 5  |
| Gateway            | ODU PI485                | PMNFP14A1  | PI 485 Gateway  |
|                    |                          | PMNFP14A0  | PI 485 Gateway  |
|                    |                          | PV485N000  | PI 485 Gateway  |
|                    | Low Ambient Kit          | AQLA       | -   |
|                    |                          | PRVC2      | From MULTI V 4 series   |
|                    | AHU Comm. Kit            | PAHCMR000  | Return Air Temperature Control  |
|                    |                          | PAHCMS000  | Discharge Air Temperature Control   |
|                    | BACnet                   | PQNFB17C0  | ACP BACnet  |
|                    | Lonworks                 | PLNWKB000  | ACP Lonworks  |
|                    | Lon Translator           | PLNTRN000  | Lon Translator  |
| ETC                | PDI                      | PPWRDB000  | PDI Standard  |
|                    |                          | PQNUD1S40  | PDI Premium   |
|                    | ACS IO Module            | PEXPMB000  | -   |

### Note

1. O: Possible, X: Impossible, - : Not applicable

2. \* : Some advanced functions controlled by individual controller cannot be operated.

3. <sup>2)</sup> : ACP IV , AC Smart IV, ACP BACnet or ACP Lonworks is needed.

4. Compatibility of individual controller(wireless/wired remote controller) could be found with function list on Indoor Unit's PDB.

5. If you need more detail, please refer to the **BECON** PDB or the manual of product.  
(<http://partner.lge.com/global> : Home> Download> Manuals)

## 2. Specifications

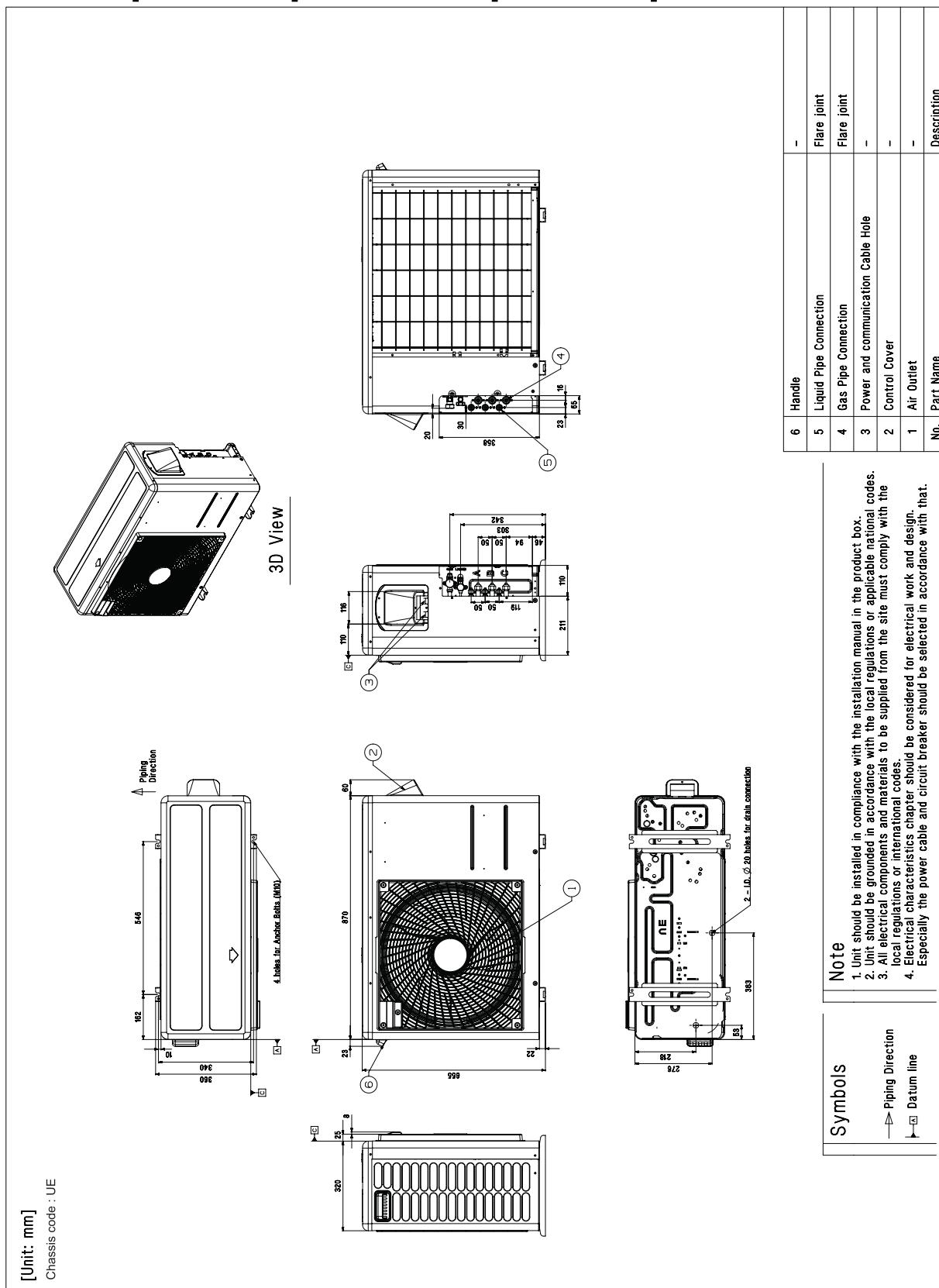
| Global Model Names<br>[Europe Model Names] |                                |  | Z3UW18GFA0<br>[MU3R19 UE0] | Z3UW21GFA0<br>[MU3R21 UE0] |
|--|--------------------------------|--|----------------------------|----------------------------|
| Combination Limit                          | Sum of Indoor Units Capacity   | kBtu/h   | 30                         | 33                         |
|  | Number of Indoor Units         | EA   | 3                          | 3                          |
|  | Number of BD Units             | EA   | -                          | -                          |
| Cooling Capacity*                          | Min.~Rated~Max.                | kW   | 1.06 ~ 5.28 ~ 6.33         | 1.06 ~ 6.15 ~ 7.33         |
|  | Min.~Rated~Max.                | Btu/h  | 3,600 ~ 18,000 ~ 21,600    | 3,600 ~ 21,000 ~ 25,000    |
| Heating Capacity*                          | Min.~Rated~Max.                | kW   | 1.17 ~ 6.33 ~ 7.27         | 1.17 ~ 7.03 ~ 7.77         |
|  | Min.~Rated~Max.                | Btu/h  | 4,000 ~ 21,600 ~ 24,840    | 4,000 ~ 24,000 ~ 26,500    |
| Power Input                                | Cooling*                       | Min.~Rated~Max.                                    | kW                         | 0.24 ~ 1.15 ~ 1.76         |
|  | Heating*                       | Min.~Rated~Max.                                    | kW                         | 0.25 ~ 1.37 ~ 2.03         |
| SEER / SCOP                                |                                | Wh/Wh  | 8.50 / 4.21                | 8.50 / 4.21                |
| Seasonal Energy Label<br>(A+++ to D Scale) |                                | Cooling / Heating                                  | -                          | A+++ / A+                  |
| Annual Energy Consumption                  |                                | Cooling / Heating                                  | kWh                        | 217 / 1,629                |
| Power Supply                               |                                | V , Ø , Hz   | 220-240, 1, 50             | 220-240, 1, 50             |
| Running Current                            | Cooling*                       | Min.~Rated~Max.                                    | A                          | 1.1 ~ 5.3 ~ 8.1            |
|  | Heating*                       | Min.~Rated~Max.                                    | A                          | 1.1 ~ 6.3 ~ 9.4            |
| Power Factor                               |                                | Rated  | -                          | 0.94                       |
| Power Supply Cable (included Earth)        |                                |  | No. × mm <sup>2</sup>      | 3C × 2.5                   |
| Casing Color                               |                                |  | -                          | Warm Gray                  |
| Dimensions                                 | Net                            | W × H × D  | mm                         | 870 × 655 × 320            |
|  | Shipping                       | W × H × D  | mm                         | 1,022 × 716 × 437          |
| Weight                                     | Net                            | kg   | 43.8                       | 43.8                       |
|  | Shipping                       | kg   | 48.6                       | 48.6                       |
| Compressor                                 | Type                           | -  | Twin Rotary                | Twin Rotary                |
|  | Model                          | Model × No.  | DAT156MA × 1               | DAT156MA × 1               |
|  | Motor type                     | -  | BLDC                       | BLDC                       |
|  | Motor Output                   | W × No.  | 1,500 (at 60Hz) × 1        | 1,500 (at 60Hz) × 1        |
| Refrigerant                                | Type                           | -  | R32                        | R32                        |
|  | GWP (Global Warming Potential) | -  | 675                        | 675                        |
|  | Precharged Amount              | g  | 1,400                      | 1,400                      |
|  | t-CO <sub>2</sub> eq.          | -  | 0.95                       | 0.95                       |
|  | Control                        | -  | Electronic Expansion Valve | Electronic Expansion Valve |
|  | Chargeless-Pipe Length         | m  | 22.5                       | 22.5                       |
| Refrigerant Oil                            | Additional Charging Volume     | g/m  | 20                         | 20                         |
|  | Type                           | -  | FW68D                      | FW68D                      |
| Heat Exchanger                             |                                | Charged volume<br>(Row×Column×Fins per inch) × No. | cc × No.                   | 400 × 1                    |
| Fan  | Type                           | -  | (2 × 28 × 14) × 1          | (2 × 28 × 14) × 1          |
|  | Air Flow Rate                  | m <sup>3</sup> /min × No.                          | 50 × 1                     | 50 × 1                     |
| Fan Motor                                  | Type                           | -  | BLDC                       | BLDC                       |
|  | Output                         | W × No.  | 85.4 × 1                   | 85.4 × 1                   |
| Sound Pressure Level                       | Cooling/Heating (Rated)        | dB(A)  | 49 / 54                    | 50 / 54                    |
| Sound Power Level                          | Cooling (Rated)                | dB(A)  | 63                         | 64                         |
| Piping Connections                         | Liquid                         | Outer Dia. × No.                                   | Ø 6.35 (1/4) × 3           | Ø 6.35 (1/4) × 3           |
|  | Gas                            | Outer Dia. × No.                                   | Ø 9.52 (3/8) × 3           | Ø 9.52 (3/8) × 3           |
| Piping Length                              | Total Piping                   | Max.   | m                          | 50                         |
|  | Each Branch                    | Standard   | m                          | 7.5                        |
| Maximum Height Difference                  | ODU~IDU                        | Max.   | m                          | 15                         |
|  | IDU~IDU                        | Max.   | m                          | 7.5                        |

### Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power levIndoor is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

### 3. Dimensions

Z3UW18GFA0 [MU3R19 UE0] / Z3UW21GFA0 [MU3R21 UE0]



## 4. Combination Table

### 4.3 Z3UW18GFA0 [MU3R19 UE0]

#### ◆ Cooling

Cooling [-18G-]

| Combination<br>(Capacity index, kBtu/h)   |        |        |        |        |       | Cooling        |      |        |      |           |      |     |       |       |
|---|--------|--------|--------|--------|-------|----------------|------|--------|------|-----------|------|-----|-------|-------|
|   |        |        |        |        |       | Total Capacity |      |        |      | Input (W) |      |     |       |       |
|   |        |        |        |        |       | Min            |      | Rated  |      | Max       |      |     |       |       |
| Unit-A  | Unit-B | Unit-C | Unit-D | Unit-E | Total | Btu/h          | kW   | Btu/h  | kW   | Btu/h     | kW   | Min | Rated | Max   |
| 1 Unit Operation  |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| 5   | -      | -      | -      | -      | 5     | 3,600          | 1.06 | 5,000  | 1.47 | 6,000     | 1.76 | 235 | 356   | 527   |
| 7   | -      | -      | -      | -      | 7     | 4,200          | 1.23 | 7,000  | 2.05 | 8,400     | 2.46 | 257 | 462   | 623   |
| 9   | -      | -      | -      | -      | 9     | 5,400          | 1.58 | 9,000  | 2.64 | 10,800    | 3.17 | 346 | 580   | 814   |
| 12  | -      | -      | -      | -      | 12    | 7,200          | 2.11 | 12,000 | 3.52 | 14,400    | 4.22 | 462 | 802   | 1,101 |
| 15  | -      | -      | -      | -      | 15    | 8,520          | 2.50 | 14,200 | 4.16 | 17,040    | 4.99 | 556 | 983   | 1,276 |
| 18  | -      | -      | -      | -      | 18    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 727 | 1,282 | 1,806 |
| 2 Units Operation   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| 5   | 5      | -      | -      | -      | 10    | 6,000          | 1.76 | 10,000 | 2.93 | 12,000    | 3.52 | 373 | 620   | 854   |
| 5   | 7      | -      | -      | -      | 12    | 7,200          | 2.11 | 12,000 | 3.52 | 14,400    | 4.22 | 439 | 762   | 1,046 |
| 5   | 9      | -      | -      | -      | 14    | 8,400          | 2.46 | 14,000 | 4.10 | 16,800    | 4.92 | 528 | 909   | 1,246 |
| 7   | 7      | -      | -      | -      | 14    | 8,400          | 2.46 | 14,000 | 4.10 | 16,800    | 4.92 | 528 | 909   | 1,246 |
| 7   | 9      | -      | -      | -      | 16    | 9,600          | 2.81 | 16,000 | 4.69 | 19,200    | 5.63 | 597 | 1,061 | 1,504 |
| 5   | 12     | -      | -      | -      | 17    | 10,200         | 2.99 | 17,000 | 4.98 | 20,400    | 5.98 | 644 | 1,139 | 1,644 |
| 9   | 9      | -      | -      | -      | 18    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 7   | 12     | -      | -      | -      | 19    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 5   | 15     | -      | -      | -      | 20    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 9   | 12     | -      | -      | -      | 21    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 7   | 15     | -      | -      | -      | 22    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 5   | 18     | -      | -      | -      | 23    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 9   | 15     | -      | -      | -      | 24    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 12  | 12     | -      | -      | -      | 24    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 7   | 18     | -      | -      | -      | 25    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 9   | 18     | -      | -      | -      | 27    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 12  | 15     | -      | -      | -      | 27    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 12  | 18     | -      | -      | -      | 30    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 15  | 15     | -      | -      | -      | 30    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 691 | 1,218 | 1,761 |
| 3 Units Operation   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| 5   | 5      | 5      | -      | -      | 15    | 9,000          | 2.64 | 15,000 | 4.40 | 18,000    | 5.28 | 524 | 935   | 1,289 |
| 5   | 5      | 7      | -      | -      | 17    | 10,200         | 2.99 | 17,000 | 4.98 | 20,400    | 5.98 | 611 | 1,082 | 1,562 |
| 5   | 5      | 9      | -      | -      | 19    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 7      | 7      | -      | -      | 19    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 7      | 9      | -      | -      | 21    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 7   | 7      | 7      | -      | -      | 21    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 5      | 12     | -      | -      | 22    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 9      | 9      | -      | -      | 23    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 7   | 7      | 9      | -      | -      | 23    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 7      | 12     | -      | -      | 24    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 5      | 15     | -      | -      | 25    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 7   | 9      | 9      | -      | -      | 25    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 9      | 12     | -      | -      | 26    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 7   | 7      | 12     | -      | -      | 26    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 7      | 15     | -      | -      | 27    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 9   | 9      | 9      | -      | -      | 27    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 7   | 9      | 12     | -      | -      | 28    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 9      | 15     | -      | -      | 29    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 5   | 12     | 12     | -      | -      | 29    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 7   | 7      | 15     | -      | -      | 29    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| 9   | 9      | 12     | -      | -      | 30    | 10,800         | 3.17 | 18,000 | 5.28 | 21,600    | 6.33 | 656 | 1,151 | 1,668 |
| <b>Note</b>   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| 1. Capacities are based on the following conditions :   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| - Cooling : Indoor Ambient Temp. 27°CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| - Interconnected piping is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| 2. At least two indoor units should be connected. And minimum limit of combination ratio is 40% for rated capacity of outdoor unit.   |        |        |        |        |       |                |      |        |      |           |      |     |       |       |
| 3. Recommended maximum combination ratio is 130% approximately. Don't exceed the maximum connectable indoor units number, it can be found in Specifications or combination table of outdoor unit model. |        |        |        |        |       |                |      |        |      |           |      |     |       |       |

## 4. Combination Table

### ◆ Heating

Heating [-18G-]

| Combination<br>(Capacity index, kBtu/h) |        |        |        |        |       | Heating        |       |        |       |        |       |           |       |       |       |     |
|---|--------|--------|--------|--------|-------|----------------|-------|--------|-------|--------|-------|-----------|-------|-------|-------|-----|
|   |        |        |        |        |       | Total Capacity |       |        |       |        |       | Input (W) |       |       |       |     |
|   |        |        |        |        |       | Min            | Rated | Max    | Btu/h | kW     | Btu/h | kW        | Btu/h | kW    | Min   |     |
| Unit-A                                  | Unit-B | Unit-C | Unit-D | Unit-E | Total | Btu/h          | kW    | Btu/h  | kW    | Btu/h  | kW    | Btu/h     | kW    | Min   | Rated | Max |
| 1 Unit Operation                        |        |        |        |        |       |                |       |        |       |        |       |           |       |       |       |     |
| 5                                       | -      | -      | -      | -      | 5     | 4,000          | 1.17  | 5,500  | 1.61  | 6,325  | 1.85  | 248       | 368   | 539   |       |     |
| 7                                       | -      | -      | -      | -      | 7     | 5,040          | 1.48  | 8,400  | 2.46  | 9,660  | 2.83  | 313       | 537   | 680   |       |     |
| 9                                       | -      | -      | -      | -      | 9     | 6,480          | 1.90  | 10,800 | 3.17  | 12,420 | 3.64  | 401       | 702   | 896   |       |     |
| 12                                      | -      | -      | -      | -      | 12    | 7,920          | 2.32  | 13,200 | 3.87  | 15,180 | 4.45  | 491       | 874   | 1,121 |       |     |
| 15                                      | -      | -      | -      | -      | 15    | 9,900          | 2.90  | 16,500 | 4.84  | 18,975 | 5.56  | 631       | 1,105 | 1,479 |       |     |
| 18                                      | -      | -      | -      | -      | 18    | 11,880         | 3.48  | 19,800 | 5.80  | 22,770 | 6.67  | 775       | 1,376 | 1,829 |       |     |
| 2 Units Operation                       |        |        |        |        |       |                |       |        |       |        |       |           |       |       |       |     |
| 5                                       | 5      | -      | -      | -      | 10    | 7,200          | 2.11  | 12,000 | 3.52  | 13,800 | 4.04  | 424       | 736   | 957   |       |     |
| 5                                       | 7      | -      | -      | -      | 12    | 8,640          | 2.53  | 14,400 | 4.22  | 16,560 | 4.85  | 511       | 903   | 1,204 |       |     |
| 5                                       | 9      | -      | -      | -      | 14    | 10,080         | 2.95  | 16,800 | 4.92  | 19,320 | 5.66  | 622       | 1,075 | 1,435 |       |     |
| 7                                       | 7      | -      | -      | -      | 14    | 10,080         | 2.95  | 16,800 | 4.92  | 19,320 | 5.66  | 622       | 1,075 | 1,435 |       |     |
| 7                                       | 9      | -      | -      | -      | 16    | 11,520         | 3.38  | 19,200 | 5.63  | 22,080 | 6.47  | 713       | 1,255 | 1,676 |       |     |
| 5                                       | 12     | -      | -      | -      | 17    | 12,240         | 3.59  | 20,400 | 5.98  | 23,460 | 6.88  | 760       | 1,361 | 1,801 |       |     |
| 9                                       | 9      | -      | -      | -      | 18    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 7                                       | 12     | -      | -      | -      | 19    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 5                                       | 15     | -      | -      | -      | 20    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 9                                       | 12     | -      | -      | -      | 21    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 7                                       | 15     | -      | -      | -      | 22    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 5                                       | 18     | -      | -      | -      | 23    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 9                                       | 15     | -      | -      | -      | 24    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 12                                      | 12     | -      | -      | -      | 24    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 7                                       | 18     | -      | -      | -      | 25    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 9                                       | 18     | -      | -      | -      | 27    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 12                                      | 15     | -      | -      | -      | 27    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 12                                      | 18     | -      | -      | -      | 30    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 15                                      | 15     | -      | -      | -      | 30    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 807       | 1,442 | 2,028 |       |     |
| 3 Units Operation                       |        |        |        |        |       |                |       |        |       |        |       |           |       |       |       |     |
| 5                                       | 5      | 5      | -      | -      | 15    | 10,800         | 3.17  | 18,000 | 5.28  | 20,700 | 6.07  | 634       | 1,118 | 1,476 |       |     |
| 5                                       | 5      | 7      | -      | -      | 17    | 12,240         | 3.59  | 20,400 | 5.98  | 23,460 | 6.88  | 722       | 1,293 | 1,711 |       |     |
| 5                                       | 5      | 9      | -      | -      | 19    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 7      | 7      | -      | -      | 19    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 7      | 9      | -      | -      | 21    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 7                                       | 7      | 7      | -      | -      | 21    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 5      | 12     | -      | -      | 22    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 9      | 9      | -      | -      | 23    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 7                                       | 7      | 9      | -      | -      | 23    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 7      | 12     | -      | -      | 24    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 5      | 15     | -      | -      | 25    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 7                                       | 9      | 9      | -      | -      | 25    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 9      | 12     | -      | -      | 26    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 7                                       | 7      | 12     | -      | -      | 26    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 7      | 15     | -      | -      | 27    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 9                                       | 9      | 9      | -      | -      | 27    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 7                                       | 9      | 12     | -      | -      | 28    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 9      | 15     | -      | -      | 29    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 5                                       | 12     | 12     | -      | -      | 29    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 7                                       | 7      | 15     | -      | -      | 29    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |
| 9                                       | 9      | 12     | -      | -      | 30    | 12,960         | 3.80  | 21,600 | 6.33  | 24,840 | 7.28  | 766       | 1,370 | 1,944 |       |     |

**Note**

- Capacities are based on the following conditions :
  - Cooling : Indoor Ambient Temp. 27°CDB/19°CWB, Outdoor Ambient Temp. 35°CDB/24°CWB
  - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected piping is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- At least two indoor units should be connected. And minimum limit of combintaion ratio is 40% for rated capacity of outdoor unit.
- Recommended maximum combination ratio is 130% approximately. Don't exceed the maximum connectable indoor units number, it can be found in Specifications or combination table of outdoor unit model.