

### *Residential Inverter R32 Heat Pump* *New SEIYA Series*

#### Indoor Units

**RAS-B05E2KVG-E**

**RAS-B07E2KVG-E**

**RAS-B10E2KVG-E**

**RAS-B13E2KVG-E**

**RAS-B16E2KVG-E**

**RAS-18E2KVG-E**

**RAS-24E2KVG-E**

#### Outdoor Units

**RAS-05E2AVG-E**

**RAS-07E2AVG-E**

**RAS-10E2AVG-E**

**RAS-13E2AVG-E**

**RAS-16E2AVG-E**

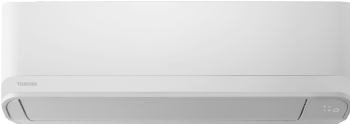
**RAS-18E2AVG-E**

**RAS-24E2AVG-E**

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## 1. Line up

| Outdoor Unit                                                                       | Indoor Unit                                                                        | Model Name    |                | Capacity Rank |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|----------------|---------------|
|                                                                                    |                                                                                    | CDU           | FCU            |               |
|   |   | RAS-05E2AVG-E | RAS-B05E2KVG-E | 5k            |
|                                                                                    |                                                                                    | RAS-07E2AVG-E | RAS-B07E2KVG-E | 7k            |
|                                                                                    |                                                                                    | RAS-10E2AVG-E | RAS-B10E2KVG-E | 10k           |
|                                                                                    |                                                                                    | RAS-13E2AVG-E | RAS-B13E2KVG-E | 13k           |
|  |   | RAS-16E2AVG-E | RAS-B16E2KVG-E | 16k           |
|                                                                                    |                                                                                    | RAS-18E2AVG-E | RAS-18E2KVG-E  | 18k           |
|                                                                                    |  | RAS-24E2AVG-E | RAS-24E2KVG-E  | 24k           |

## Accessories

| Appearance                                                                                                                                                                                                                                                        | Model Name                                                                      | Remark                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|
|                                                                                                                                                                                | WH-TG01NE                                                                       | Standard remote controller                                          |
| <br>                                                                                        | RB-RXS33-E<br>RB-RXS34-E                                                        | Option weekly remote controller<br>Option black remote controller   |
| <br><br> | RB-N105S-G without cable<br>RB-N106S-G with cable for outside unit installation | Accessory wireless adapter<br>Application : Toshiba Home AC Control |

## 2. Specifications

| System                   | Size                              |                   | 5k                                          | 7k                 | 10k                | 13k                | 16k                | 18k                | 24k                |
|--------------------------|-----------------------------------|-------------------|---------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                          | Indoor                            |                   | RAS-B05E2KVG-E                              | RAS-B07E2KVG-E     | RAS-B10E2KVG-E     | RAS-B13E2KVG-E     | RAS-B16E2KVG-E     | RAS-18E2KVG-E      | RAS-24E2KVG-E      |
|                          | Outdoor                           |                   | RAS-05E2AVG-E                               | RAS-07E2AVG-E      | RAS-10E2AVG-E      | RAS-13E2AVG-E      | RAS-16E2AVG-E      | RAS-18E2AVG-E      | RAS-24E2AVG-E      |
| Power supply (V/Ph/Hz)   |                                   |                   | 220 - 240 / 1 / 50                          |                    |                    |                    |                    |                    |                    |
| Cooling                  | Capacity (kW)                     |                   | 1.5 (0.75 - 2.00)                           | 2.0 (0.76 - 2.60)  | 2.5 (0.80 - 3.00)  | 3.3 (1.20 - 3.60)  | 4.2 (1.40 - 4.70)  | 5.0 (1.45 - 5.5)   | 6.5 (1.7 - 7.2)    |
|                          | Power Consumption (kW)            |                   | 0.36 (0.20 - 0.57)                          | 0.53 (0.20 - 0.83) | 0.70 (0.20 - 1.00) | 1.10 (0.25 - 1.25) | 1.27 (0.34 - 1.60) | 1.50 (0.34 - 1.80) | 2.25 (0.41 - 2.60) |
|                          | EER                               |                   | 4.17                                        | 3.77               | 3.57               | 3.00               | 3.31               | 3.33               | 2.89               |
|                          | PdesignC (kW)                     |                   | 1.50                                        | 2.00               | 2.50               | 3.30               | 4.20               | 5.00               | 6.50               |
|                          | SEER                              |                   | 6.90                                        | 6.90               | 7.00               | 7.00               | 7.00               | 7.00               | 6.90               |
|                          | Indoor Noise (H/Quiet) (dB)       |                   | 37/19                                       | 38/19              | 39/19              | 41/20              | 43/21              | 47/26              | 48/29              |
|                          | Outdoor Noise (dB)                |                   | 47                                          | 47                 | 47                 | 48                 | 50                 | 50                 | 54                 |
|                          | Indoor Air Flow m <sup>3</sup> /h |                   | 480                                         | 500                | 510                | 540                | 750                | 790                | 1070               |
| Heating                  | Capacity (kW)                     |                   | 2.0 (0.80 - 3.00)                           | 2.5 (0.82 - 3.30)  | 3.2 (0.95 - 3.90)  | 3.6 (0.97 - 4.50)  | 5.0 (1.30 - 6.00)  | 5.4 (1.35 - 6.0)   | 7.0 (1.5 - 8.1)    |
|                          | Power Consumption (kW)            |                   | 0.47 (0.16 - 0.85)                          | 0.64 (0.16 - 0.94) | 0.86 (0.18 - 1.11) | 0.92 (0.18 - 1.25) | 1.34 (0.24 - 1.70) | 1.50 (0.26 - 1.80) | 2.10 (0.29 - 2.55) |
|                          | COP                               |                   | 4.26                                        | 3.91               | 3.72               | 3.91               | 3.73               | 3.60               | 3.33               |
|                          | PdesignH (Tbiv -7°C) (kW)         |                   | 1.60                                        | 2.00               | 2.40               | 2.70               | 3.60               | 3.80               | 5.40               |
|                          | SCOP                              |                   | 4.60                                        | 4.60               | 4.60               | 4.60               | 4.60               | 4.40               | 4.30               |
|                          | Indoor Noise (H/Quiet) (dB)       |                   | 37/19                                       | 38/19              | 39/20              | 42/20              | 43/22              | 48/26              | 48/29              |
|                          | Outdoor Noise (dB)                |                   | 48                                          | 49                 | 49                 | 49                 | 51                 | 51                 | 54                 |
|                          | Indoor Air Flow m <sup>3</sup> /h |                   | 480                                         | 500                | 510                | 560                | 760                | 840                | 860                |
| FCU                      | Dimensions                        | H x W x D (mm)    | 288 x 770 x 225                             |                    |                    |                    | 293 x 798 x 230    |                    | 320 x 1050 x 250   |
|                          |                                   | Net Weight (kg)   | 9                                           | 9                  | 9                  | 9                  | 9                  | 9                  | 15                 |
| CDU                      | Dimensions                        | H x W x D (mm)    | 530 / 660 / 240                             |                    |                    |                    | 550 / 780 / 290    |                    |                    |
|                          |                                   | Net Weight (kg)   | 21                                          | 21                 | 22                 | 22                 | 30                 | 34                 | 38                 |
| Pipe                     | Chargeless (m)                    |                   | 15                                          |                    |                    |                    |                    |                    |                    |
|                          | Maximum Length (m)                |                   | 15                                          |                    |                    |                    | 20                 |                    |                    |
|                          | Maximum Height (m)                |                   | 12                                          |                    |                    |                    |                    |                    |                    |
|                          | Refrigerant                       |                   | R32                                         |                    |                    |                    |                    |                    |                    |
| Energy Label             |                                   | Cooling / Heating | A++ / A++                                   |                    |                    |                    |                    | A++ / A+           |                    |
| Useble Range Temperature |                                   | Cooling (°C)      | Indoor: 21 ~ 32 °C , Outdoor: (-15) ~ 46 °C |                    |                    |                    |                    |                    |                    |
|                          |                                   | Heating (°C)      | Indoor: 0 ~ 28 °C , Outdoor: (-15) ~ 24 °C  |                    |                    |                    |                    |                    |                    |

For performance when each indoor unit is combined with other unit, refer to the separate table.

\* The specifications may be subject to change without notice for purpose of improvement.

Cooling : Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)

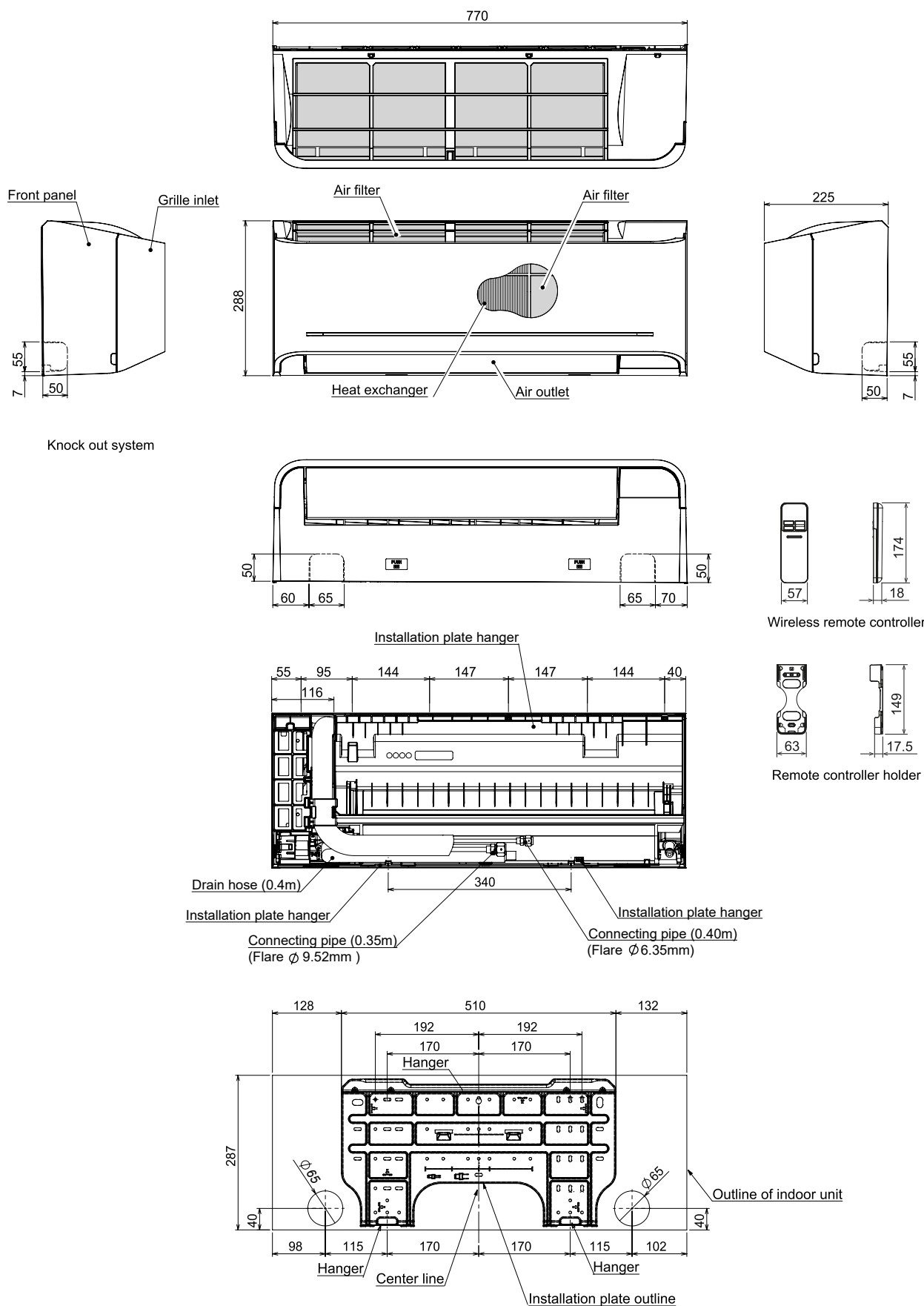
Heating : Capacity test condition, inside : 20 °C (Db), outside : 7 °C (Db) / 6°C (Wb)

Piping length : 5 m per Indoor Unit.

### 3. Dimension

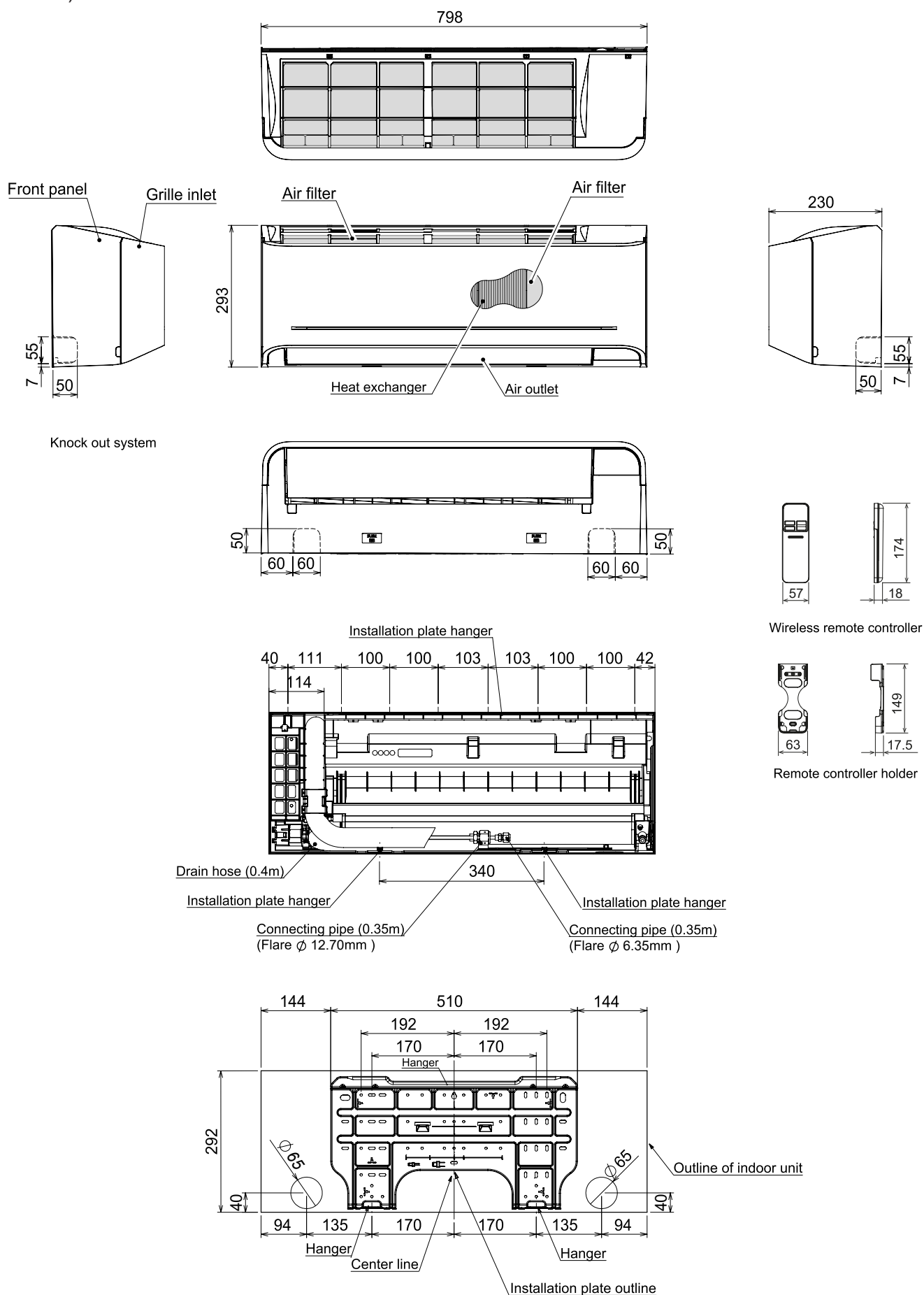
Indoor Unit : RAS-B\*\_\_E2KVG-E (\*05 / 07 / 10 / 13 )

(Unit : mm)



Indoor Unit : RAS-B16E2KVG-E / RAS-18E2KVG-E

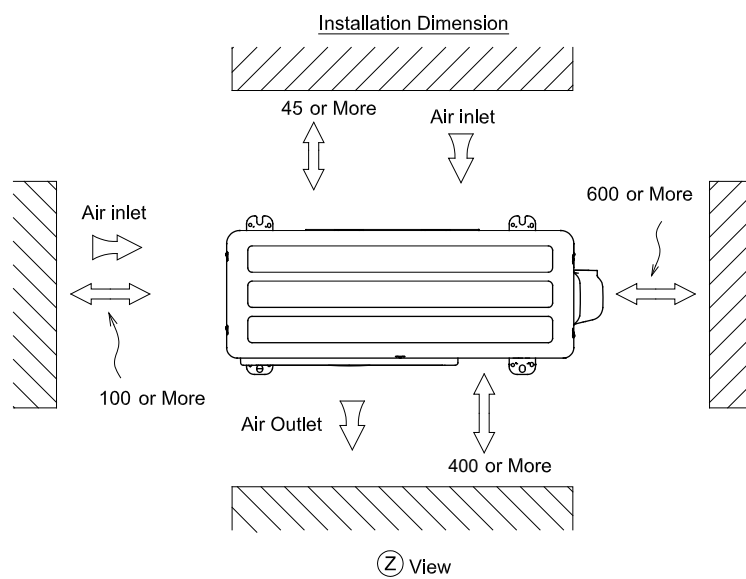
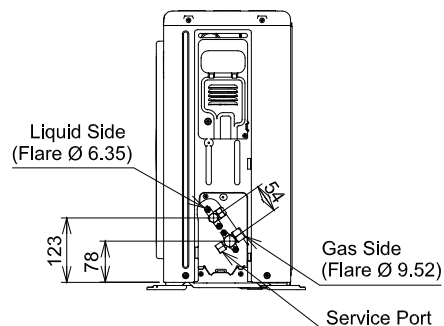
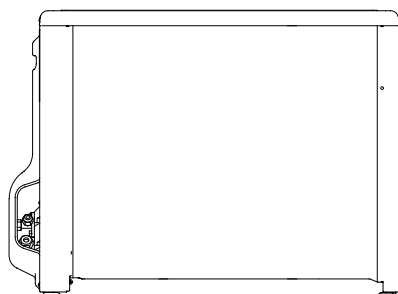
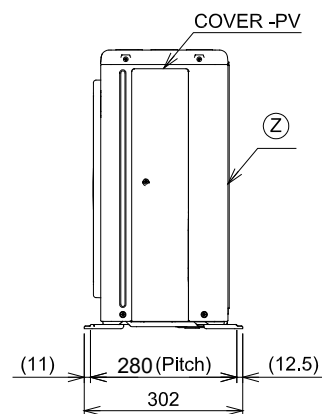
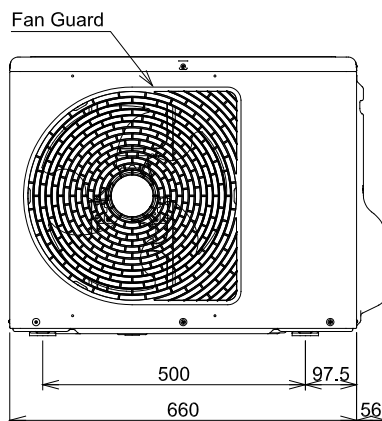
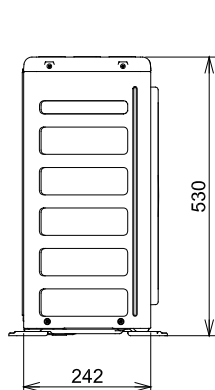
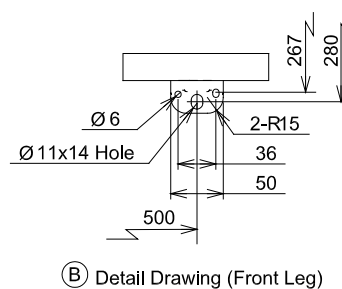
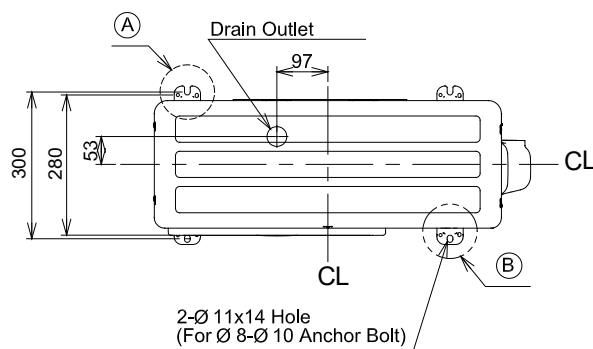
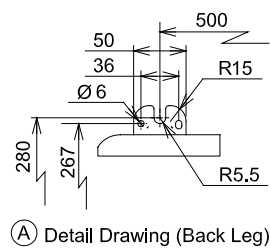
(Unit : mm)





Outdoor Unit : RAS-\*\_\_E2AVG-E (\*05 / 07 / 10 / 13)

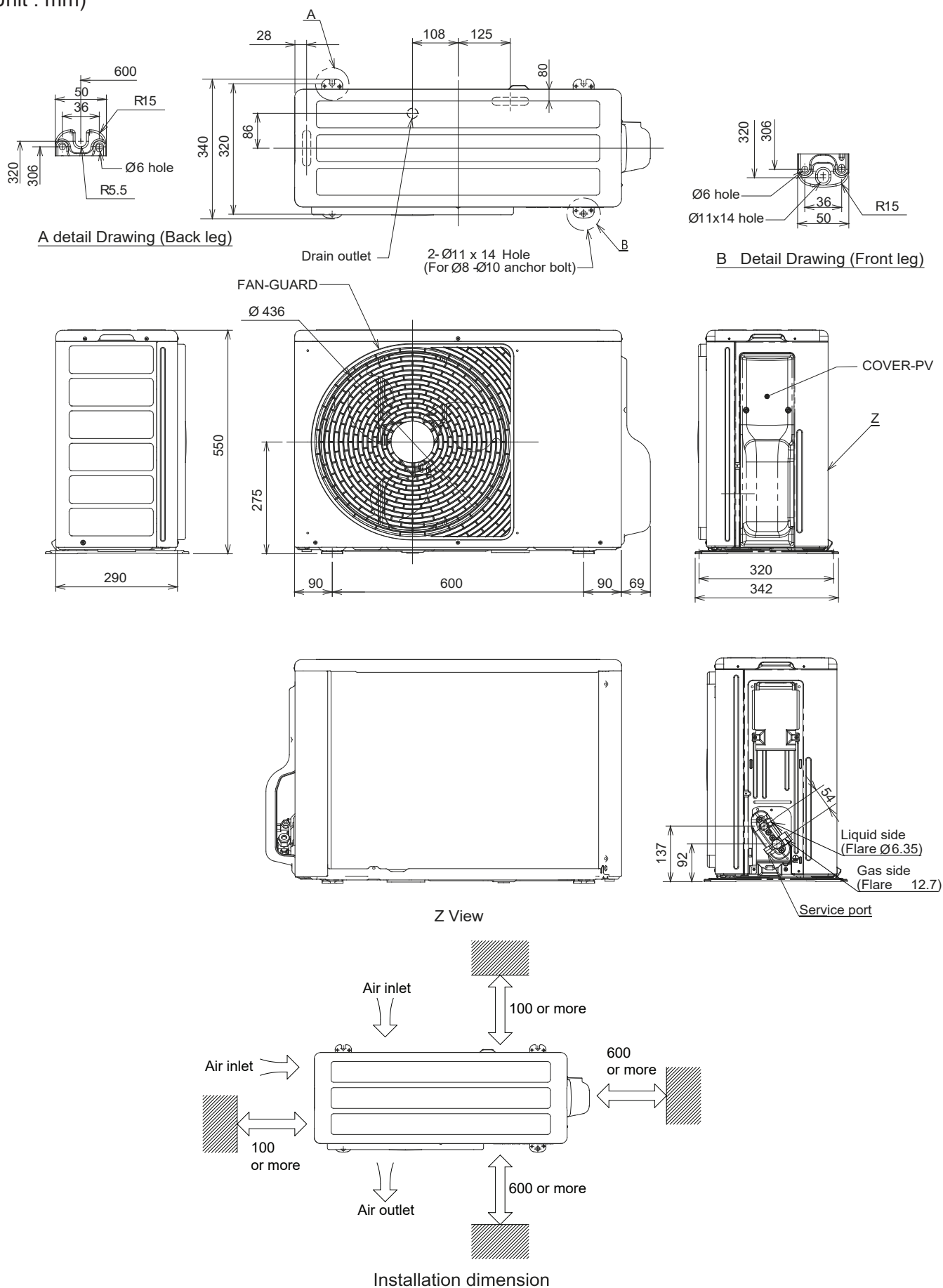
(Unit : mm)





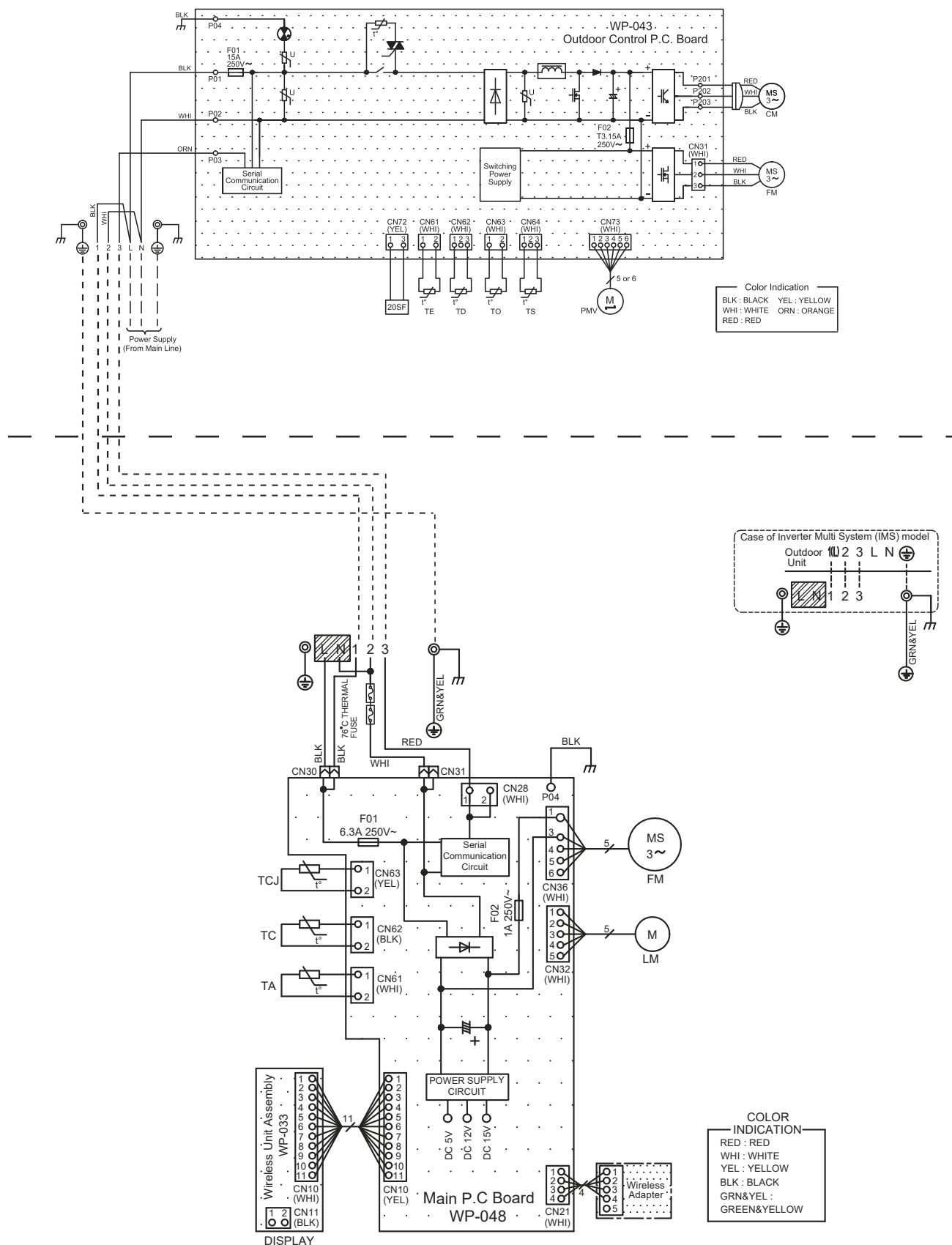
Outdoor Unit : RAS-\*\_\_E2AVG-E (\*16 / 18 / 24)

(Unit : mm)

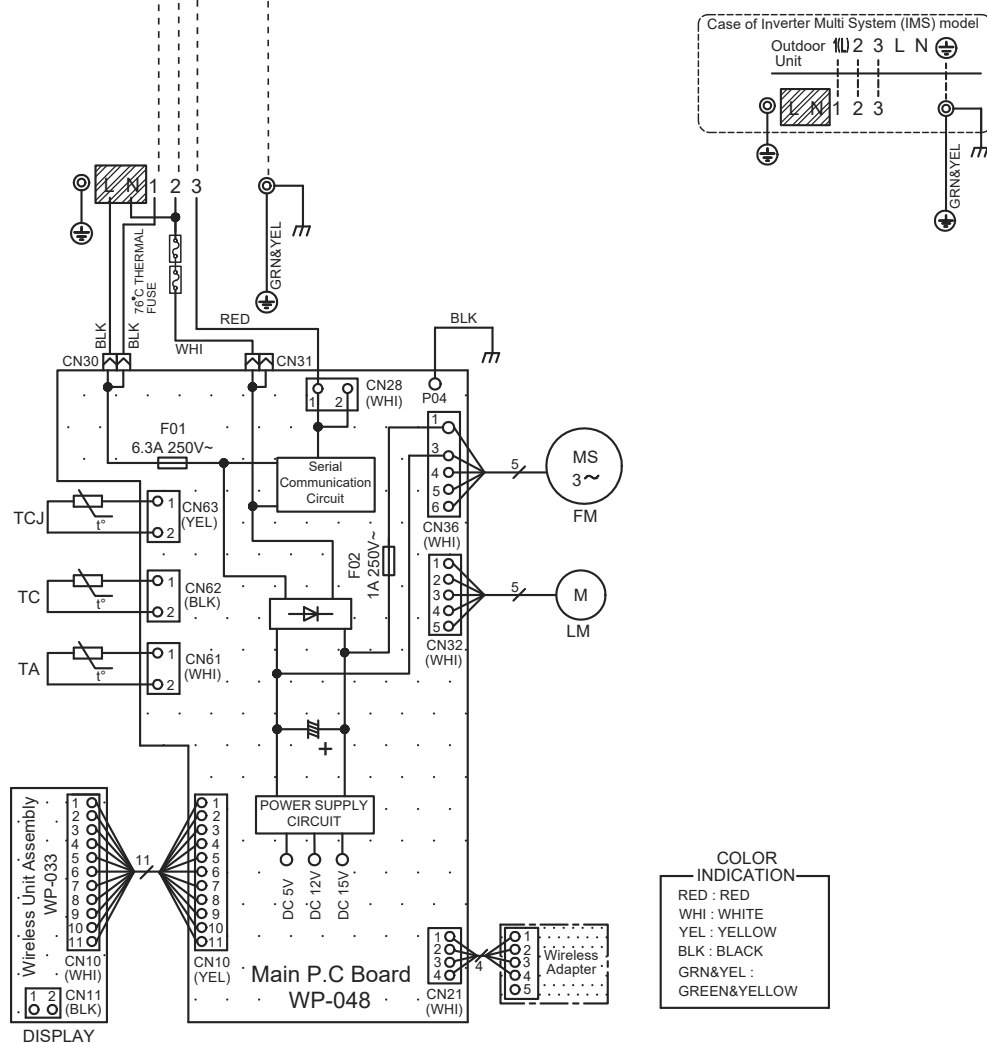
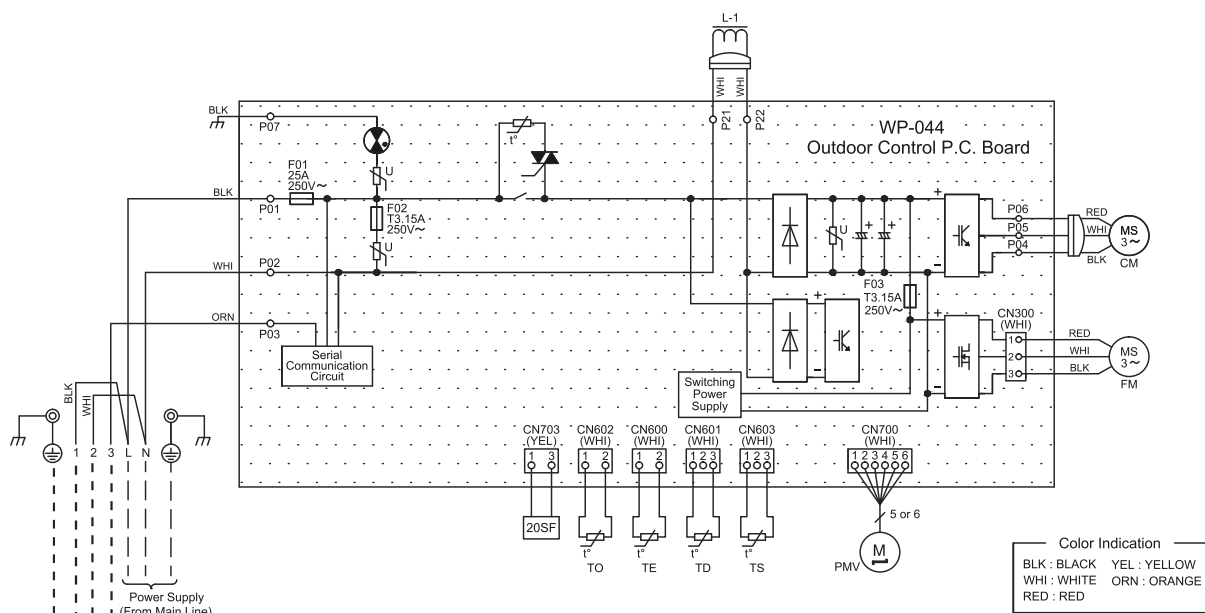


## 4. Wiring diagrams

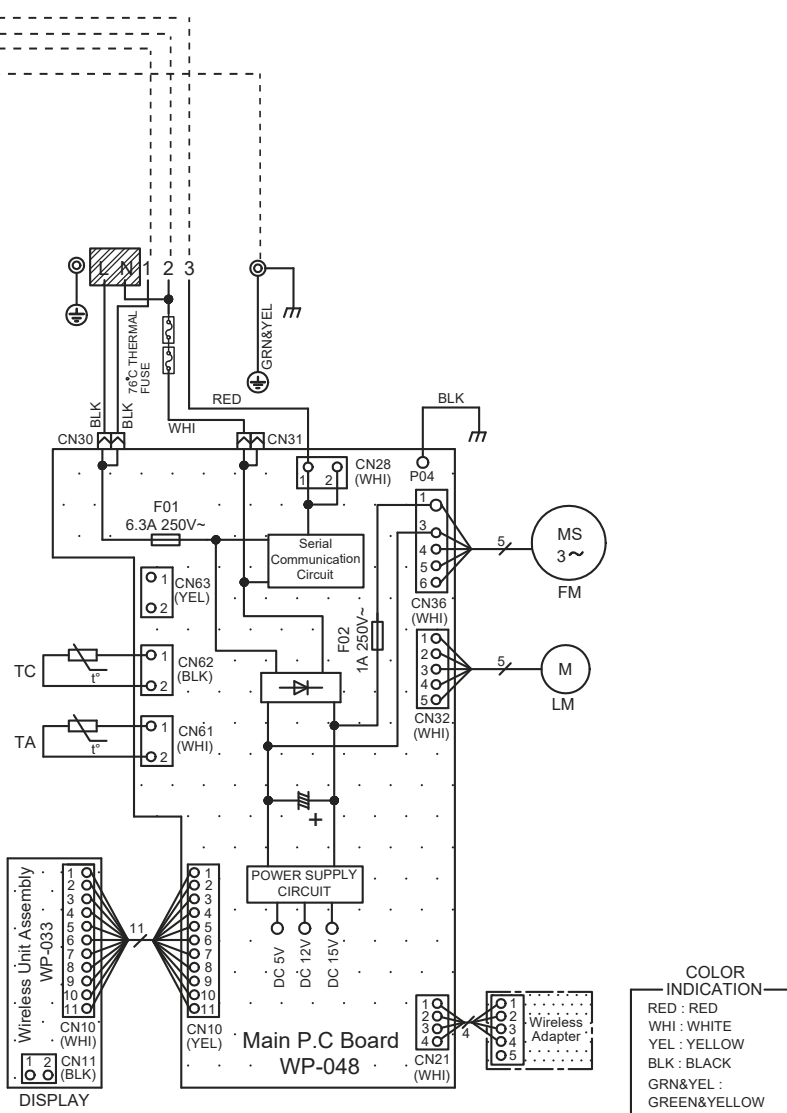
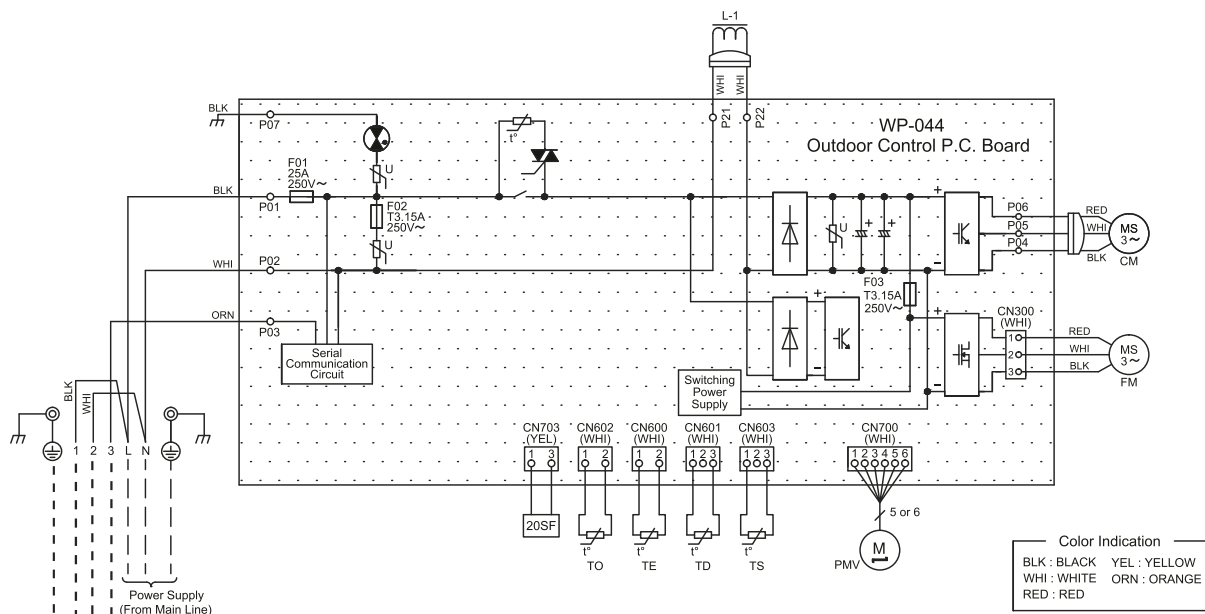
RAS-B05E2KVG-E ; RAS-05E2AVG-E  
 RAS-B07E2KVG-E ; RAS-07E2AVG-E  
 RAS-B10E2KVG-E ; RAS-10E2AVG-E  
 RAS-B13E2KVG-E ; RAS-13E2AVG-E



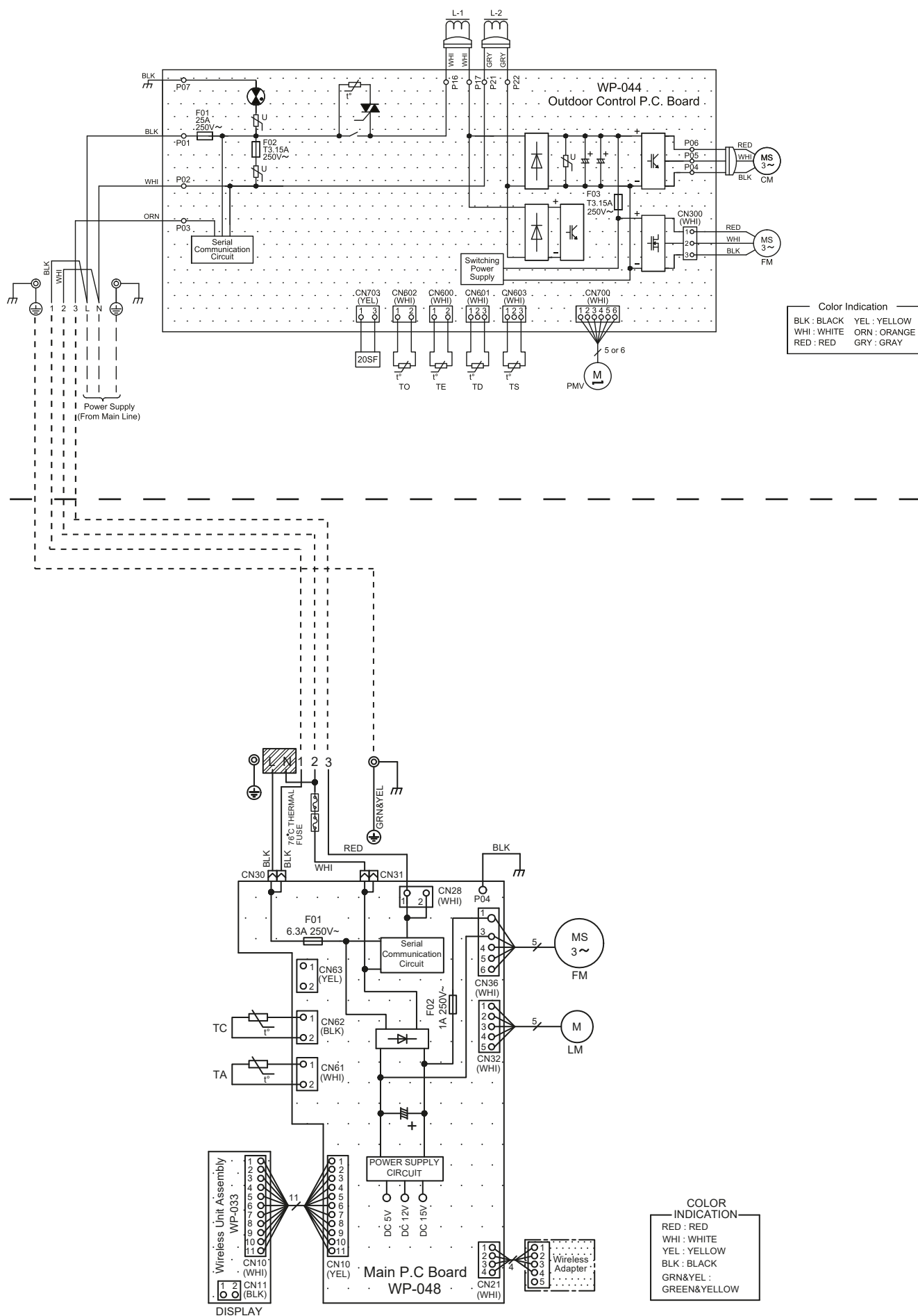
## RAS-B16E2KVG-E ; RAS-16E2AVG-E



## RAS-18E2KVG-E ; RAS-18E2AVG-E



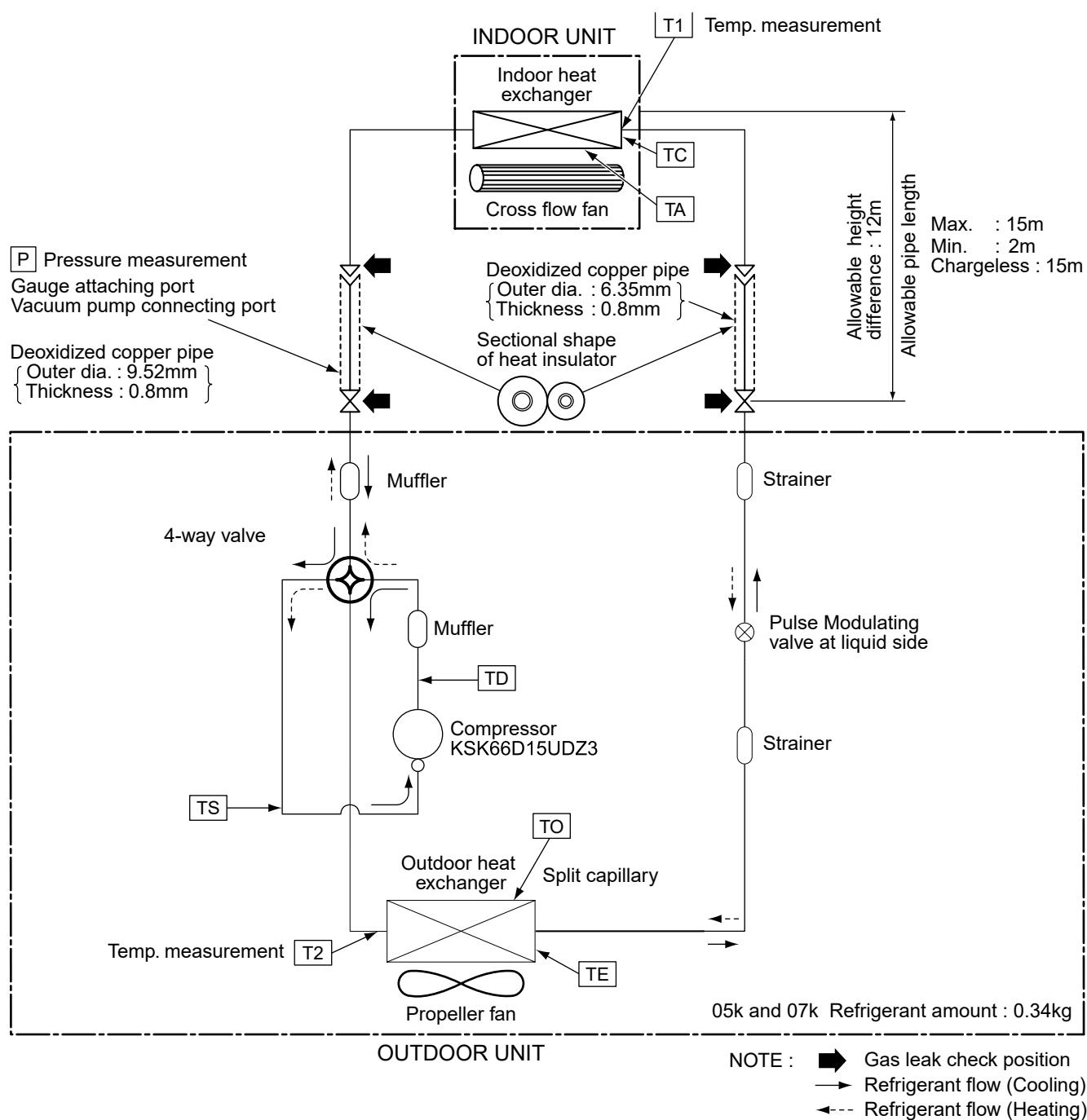
## RAS-24E2KVG-E ; RAS-24A2KVG-E



## 5. Refrigerant cycle diagram

RAS-B05E2KVG-E ; RAS-05E2AVG-E

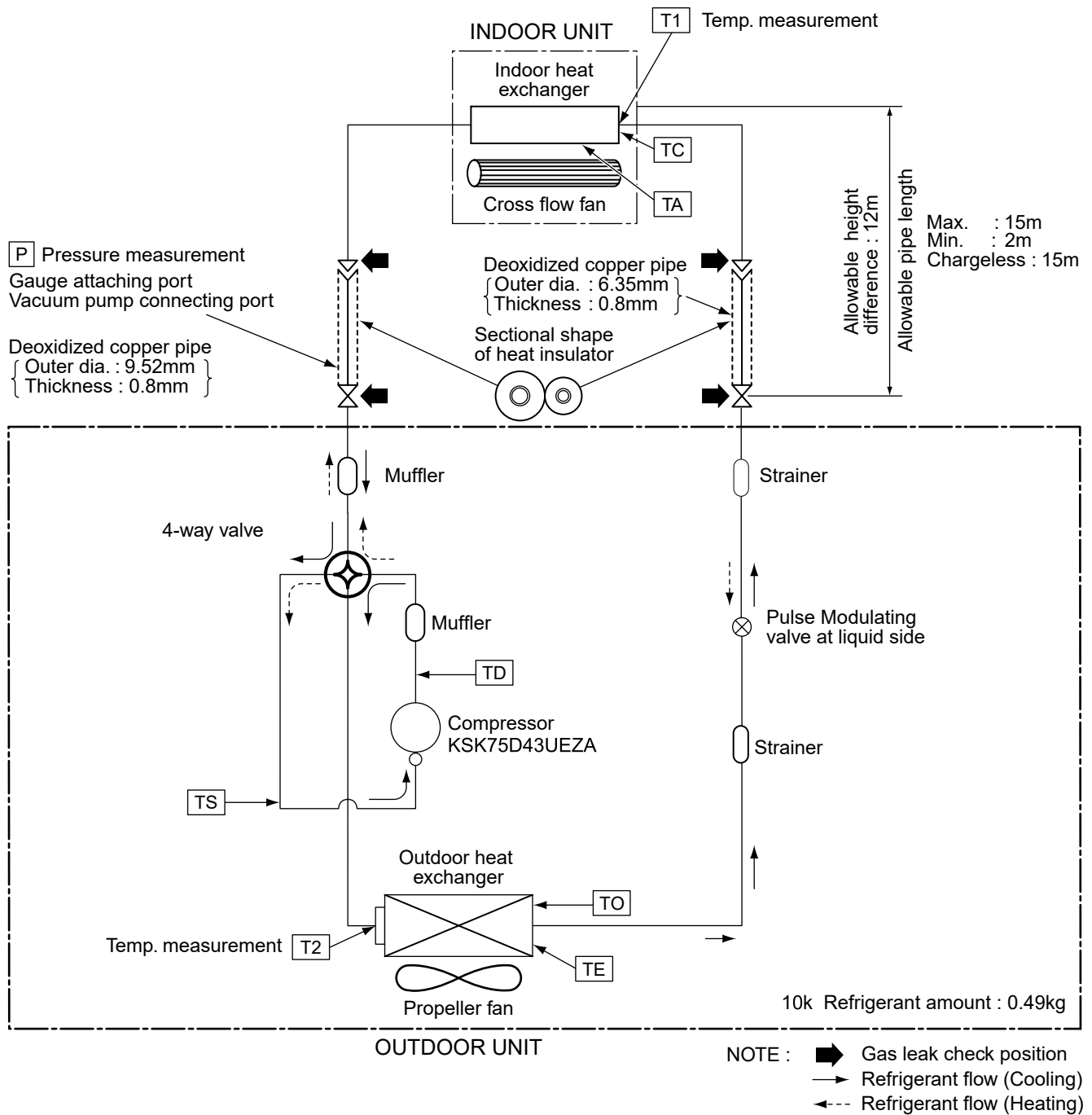
RAS-B07E2KVG-E ; RAS-07E2AVG-E



### NOTE :

- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

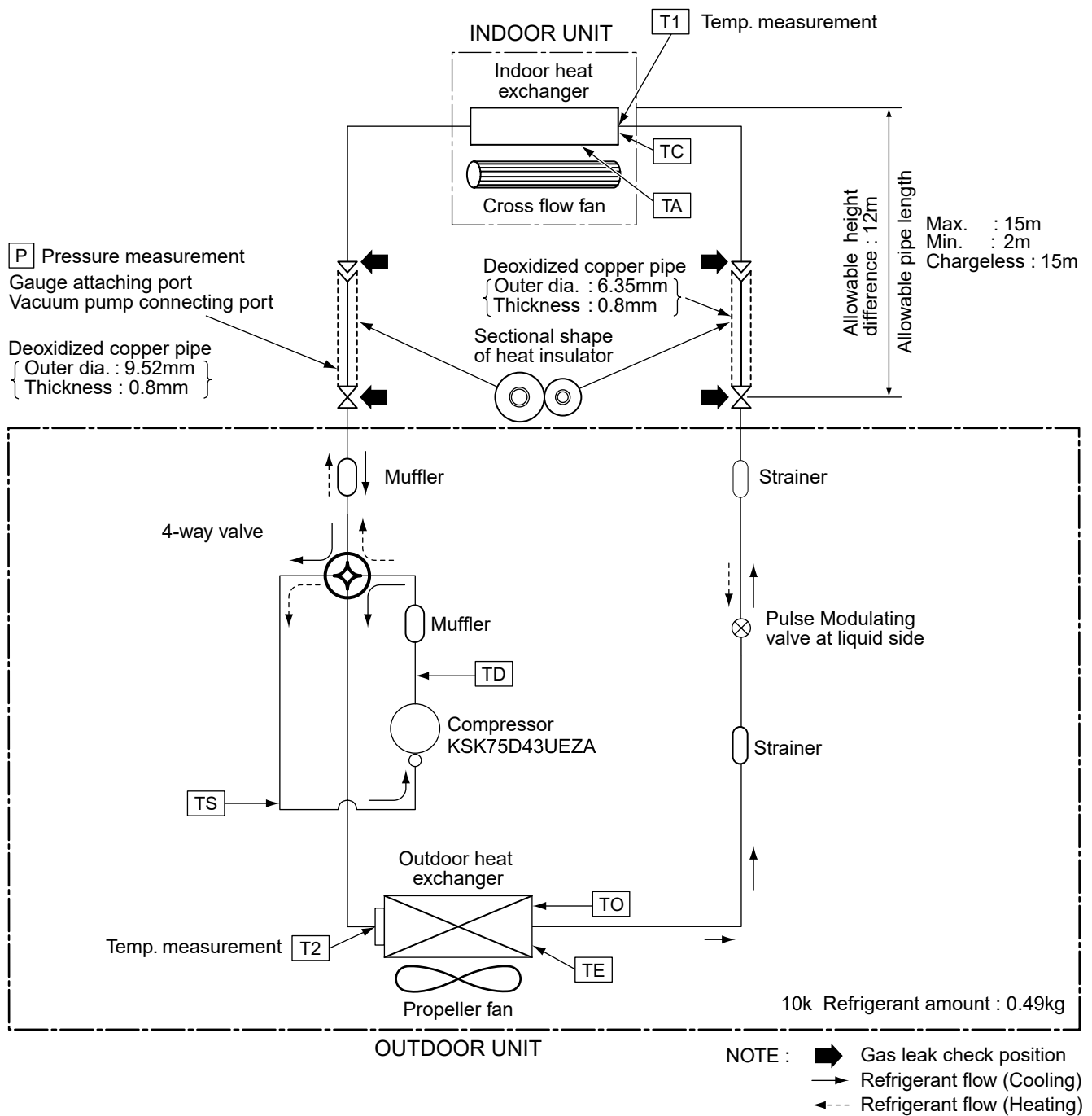
RAS-B10E2KVG-E ; RAS-10E2AVG-E



## NOTE :

- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAS-B13E2KVG-E ; RAS-13E2AVG-E



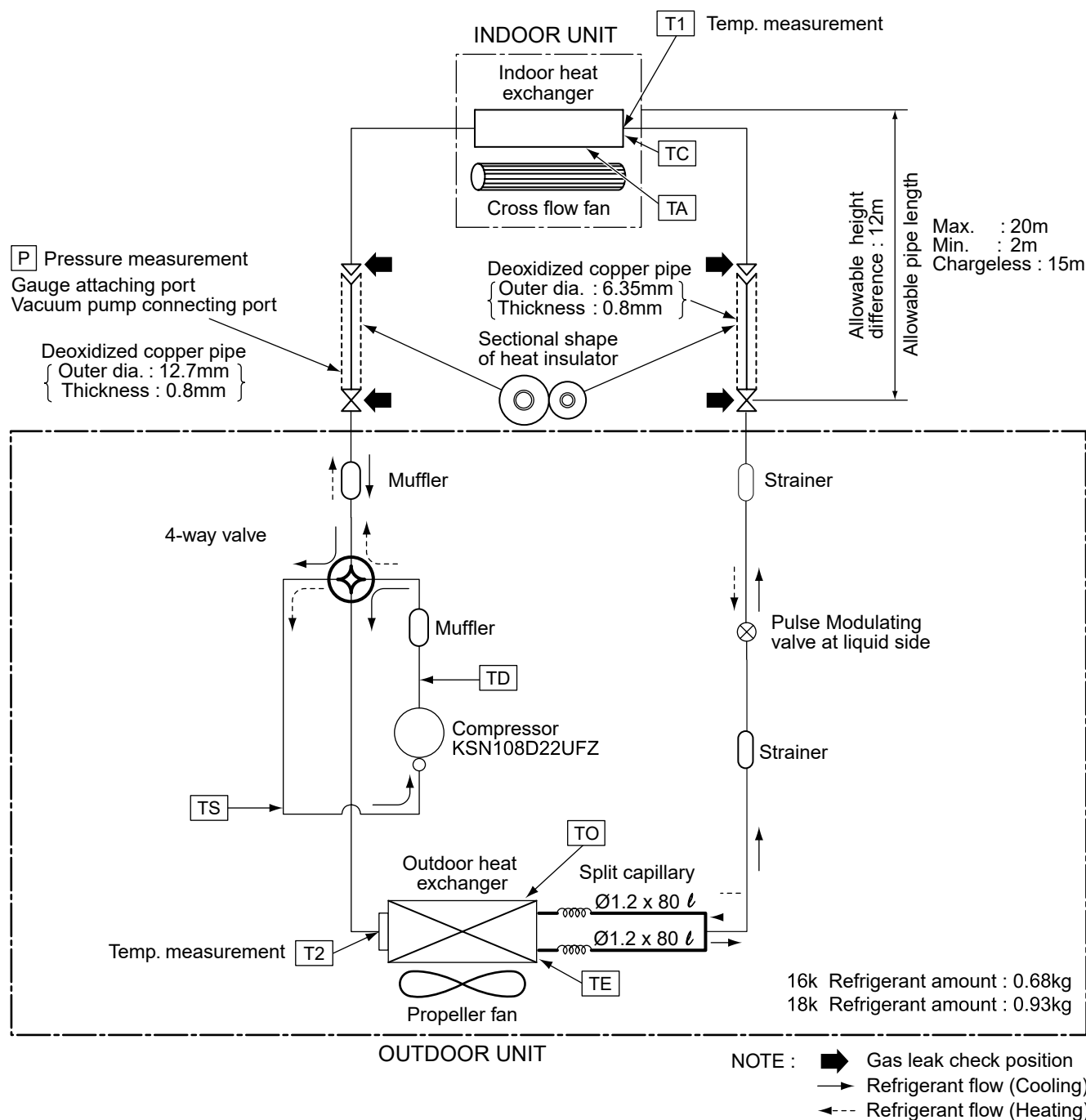
## NOTE :

- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)



RAS-B16E2KVG-E ; RAS-16E2AVG-E

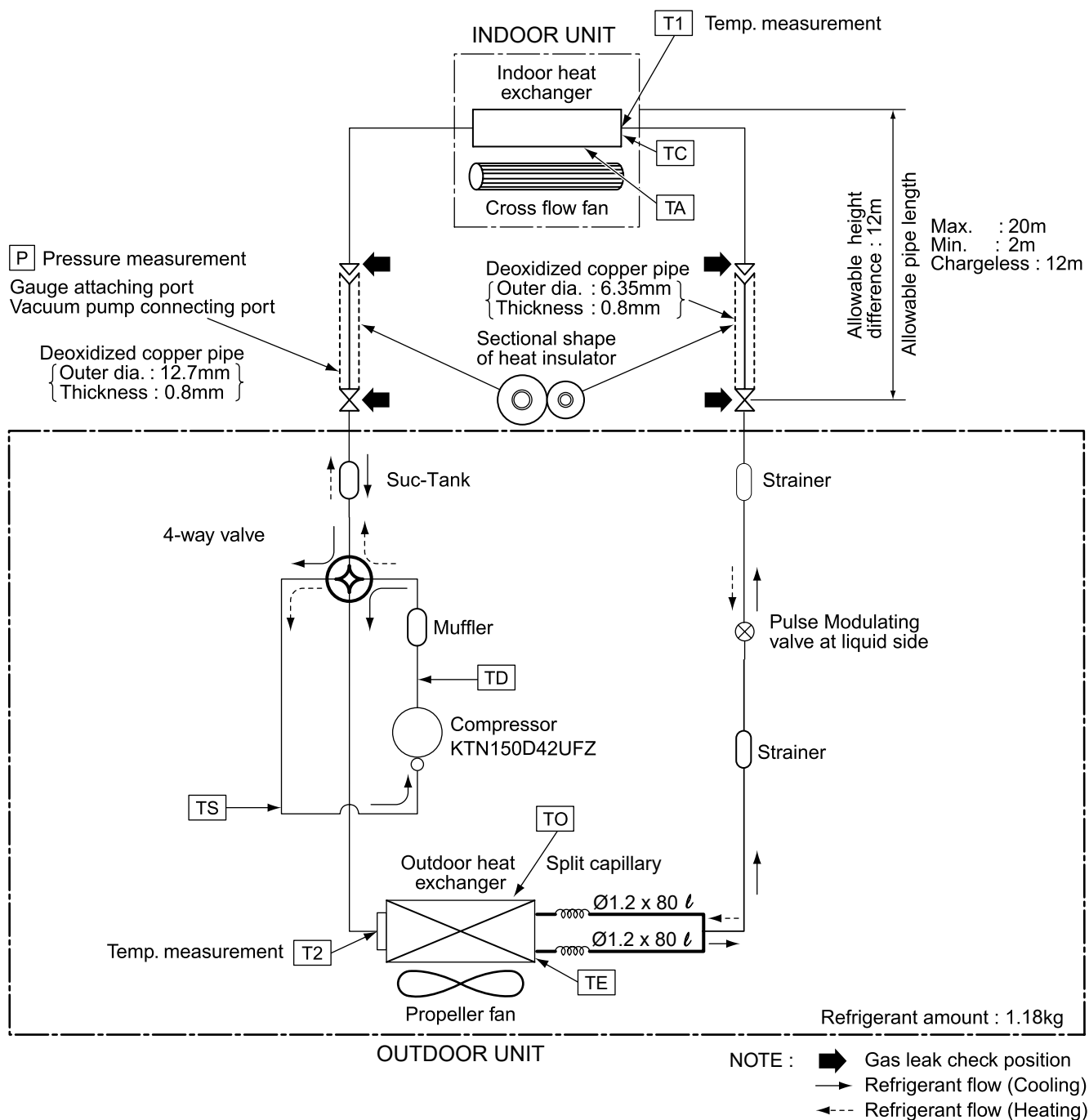
RAS-18E2KVG-E ; RAS-18E2AVG-E



## NOTE :

- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

## RAS-24E2KVG-E ; RAS-24E2AVG-E



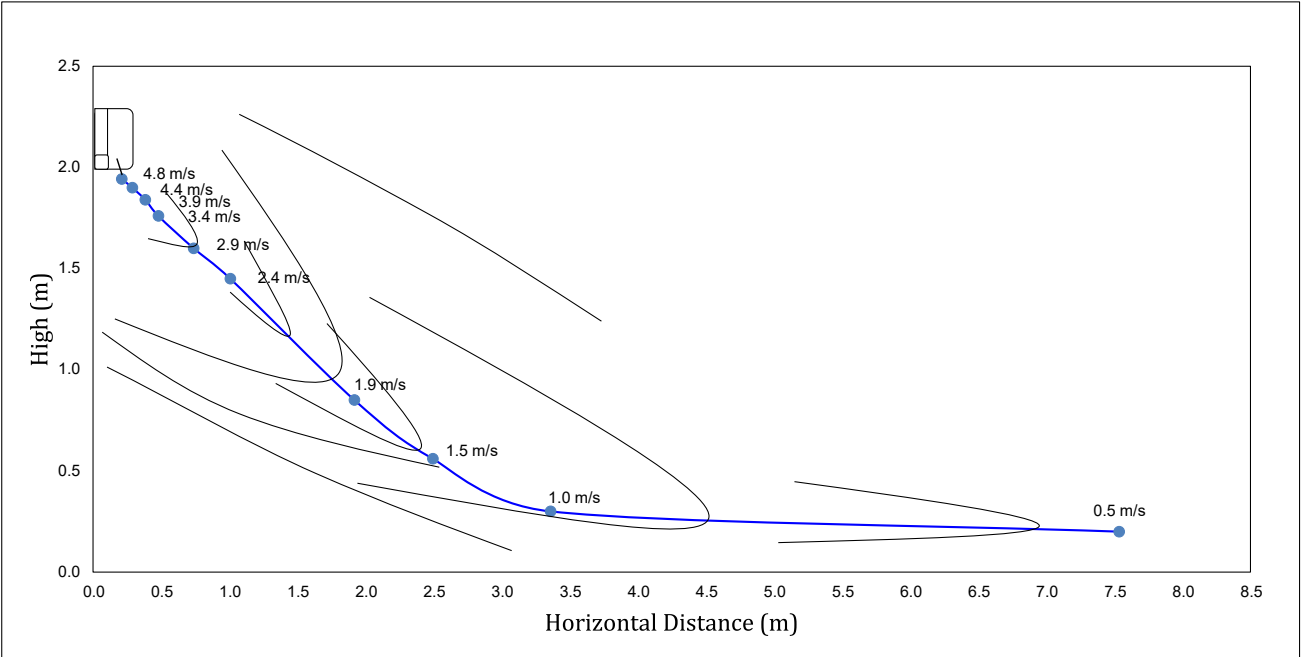
## NOTE :

- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

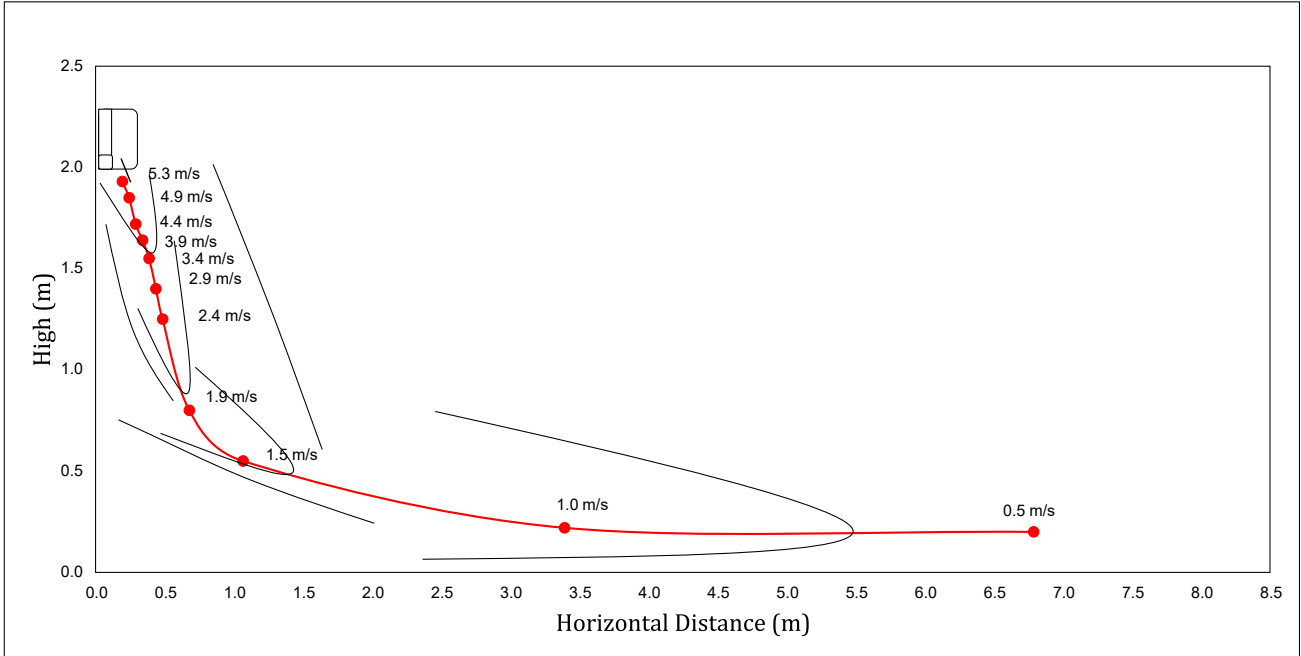
6. Air Speed Distribution

RAS-B05E2KVG-E

Cooling

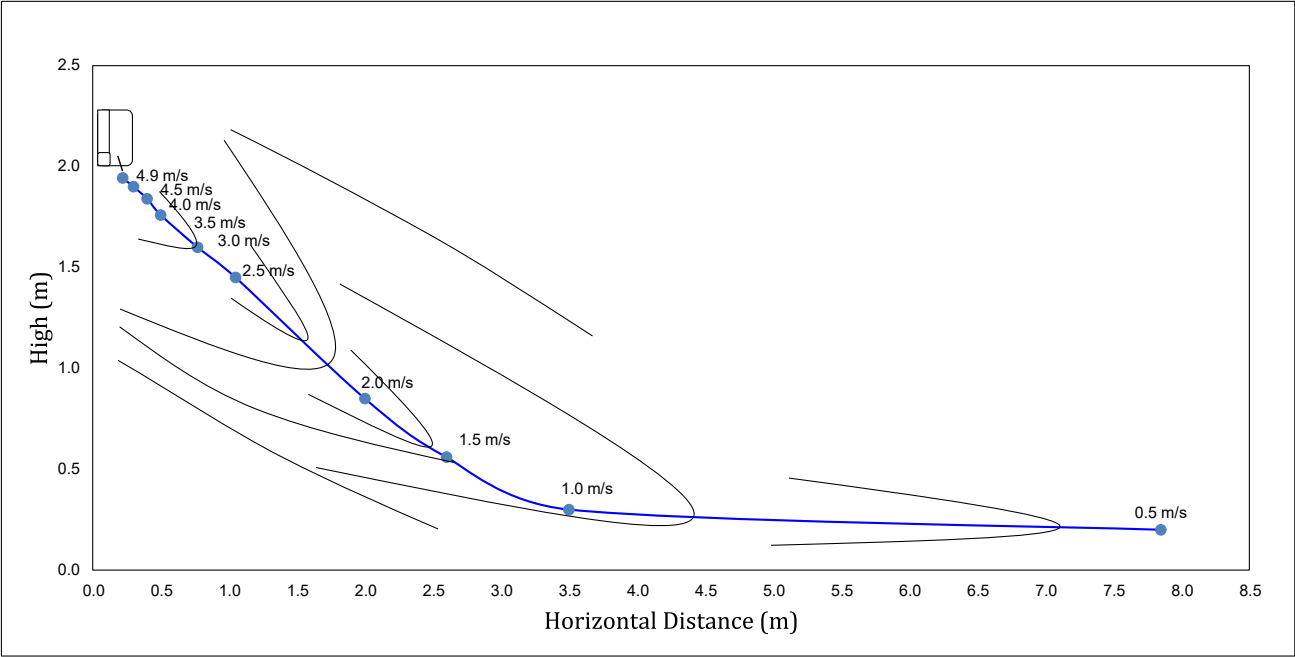


Heating

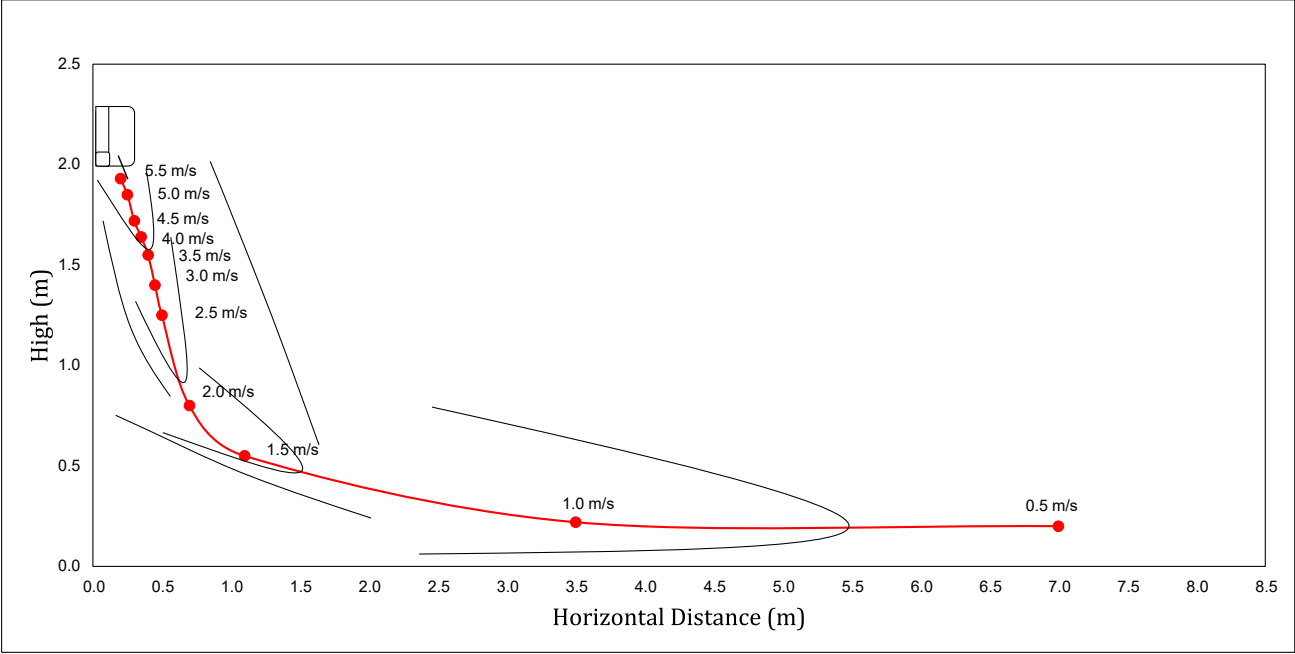


RAS-B07E2KVG-E

Cooling

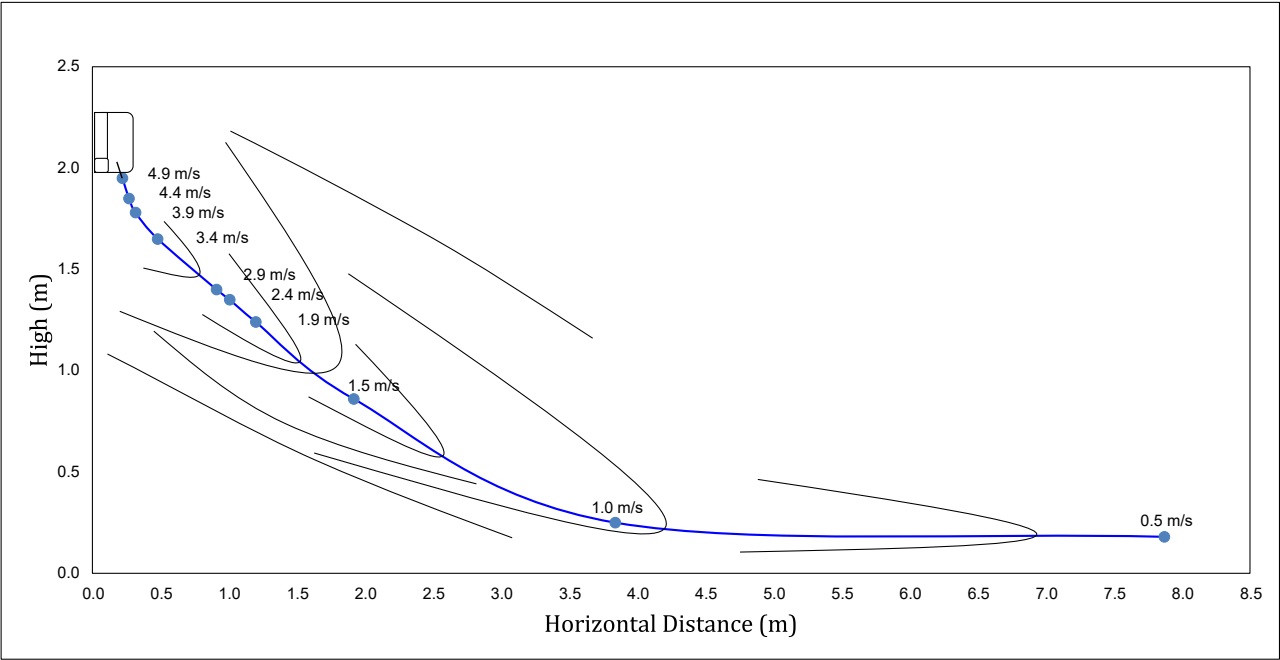


Heating

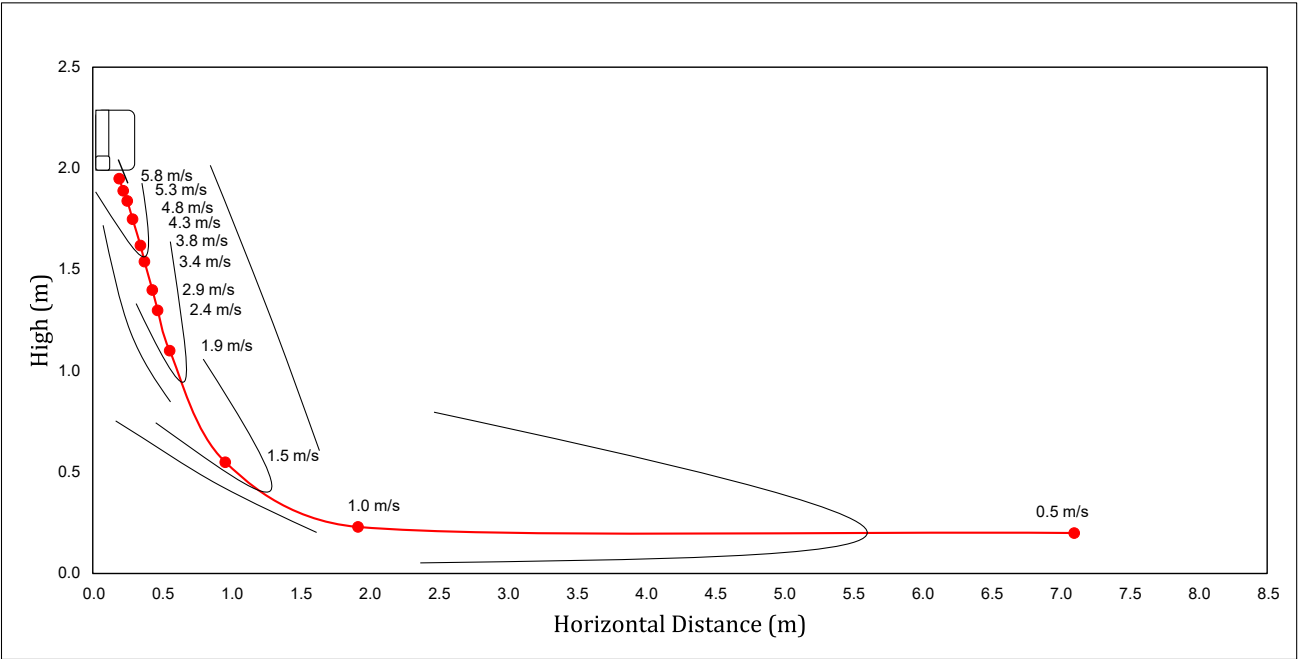


RAS-B10E2KVG-E

Cooling

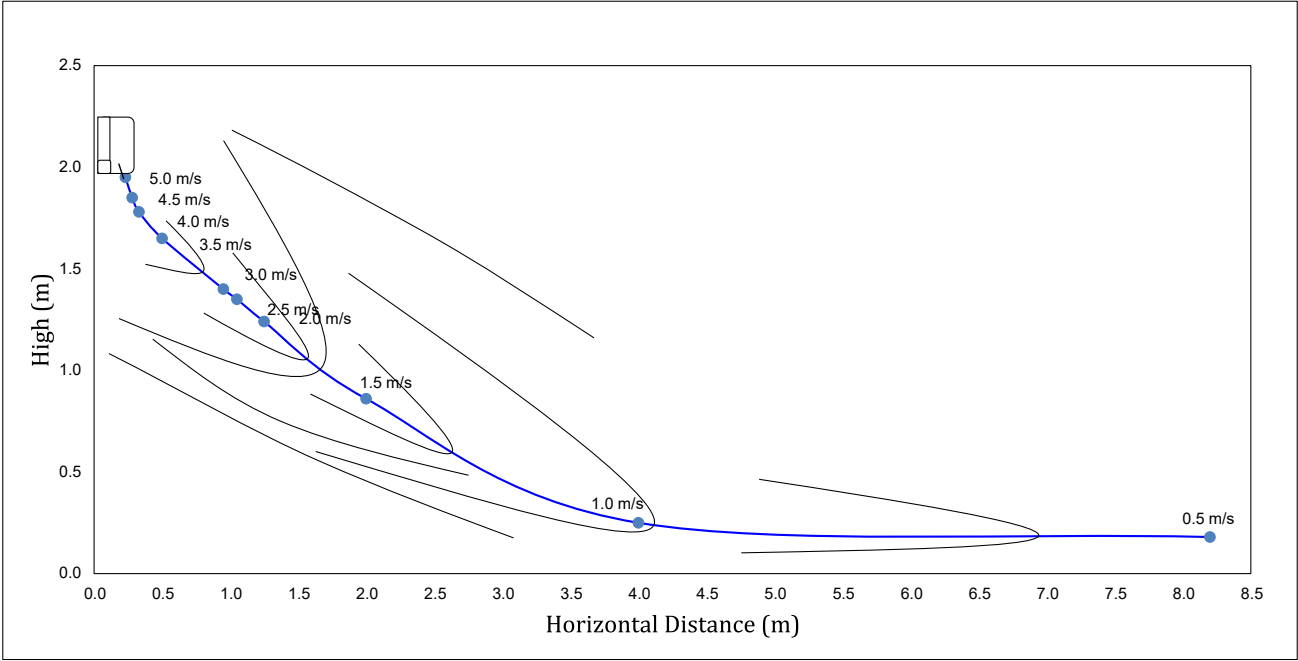


Heating

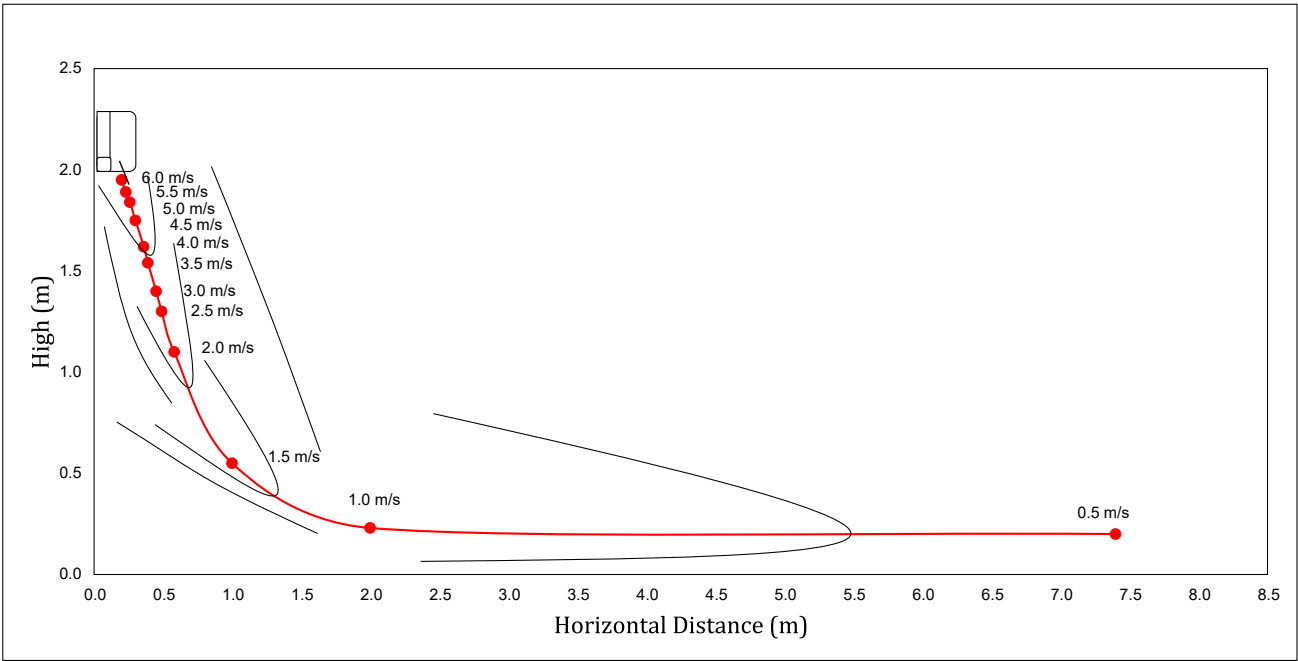


RAS-B13E2KVG-E

Cooling

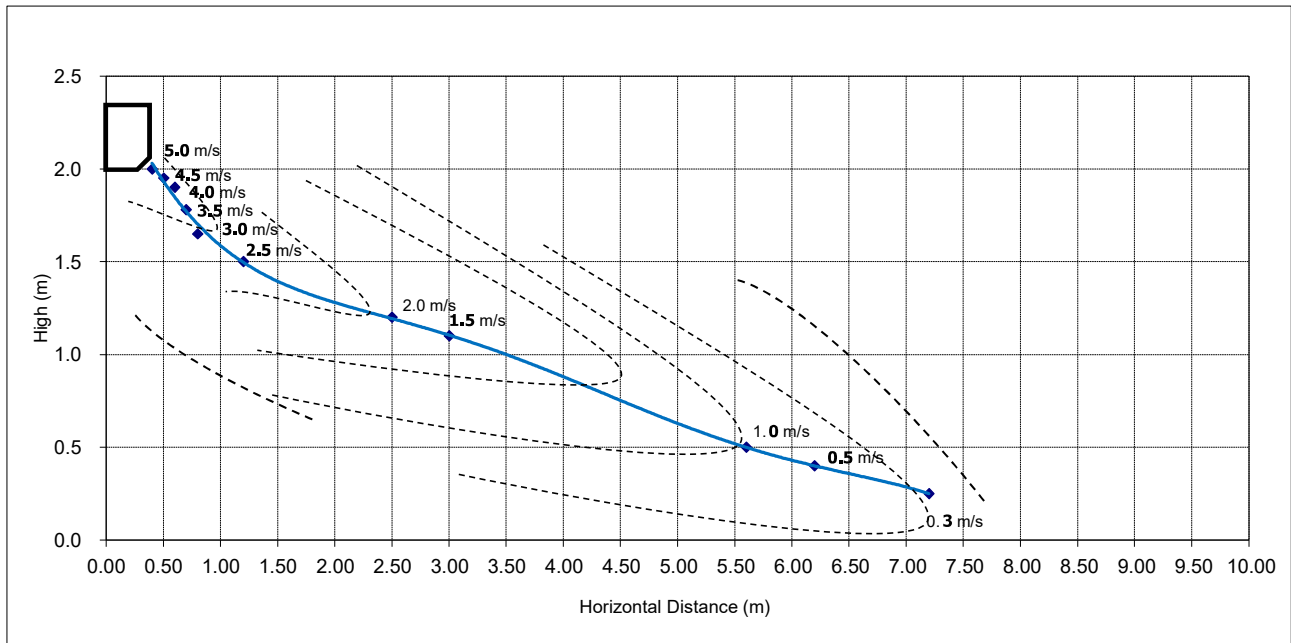


Heating

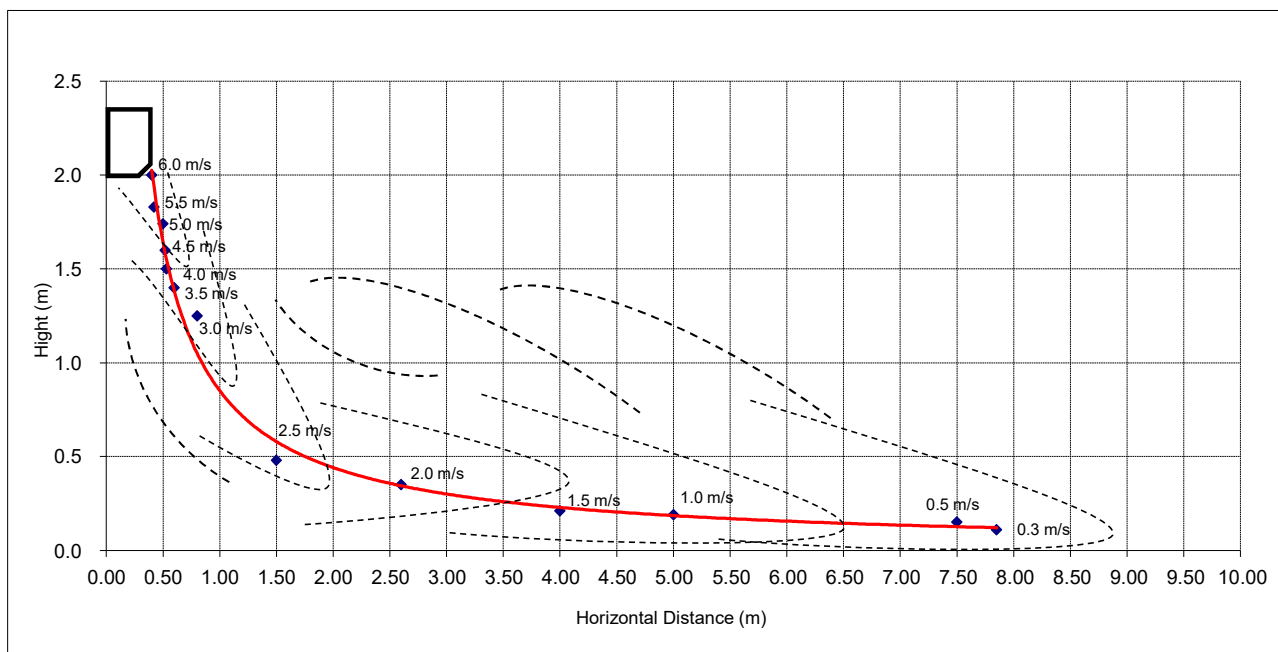


## RAS-B16E2KVG-E

## Cooling

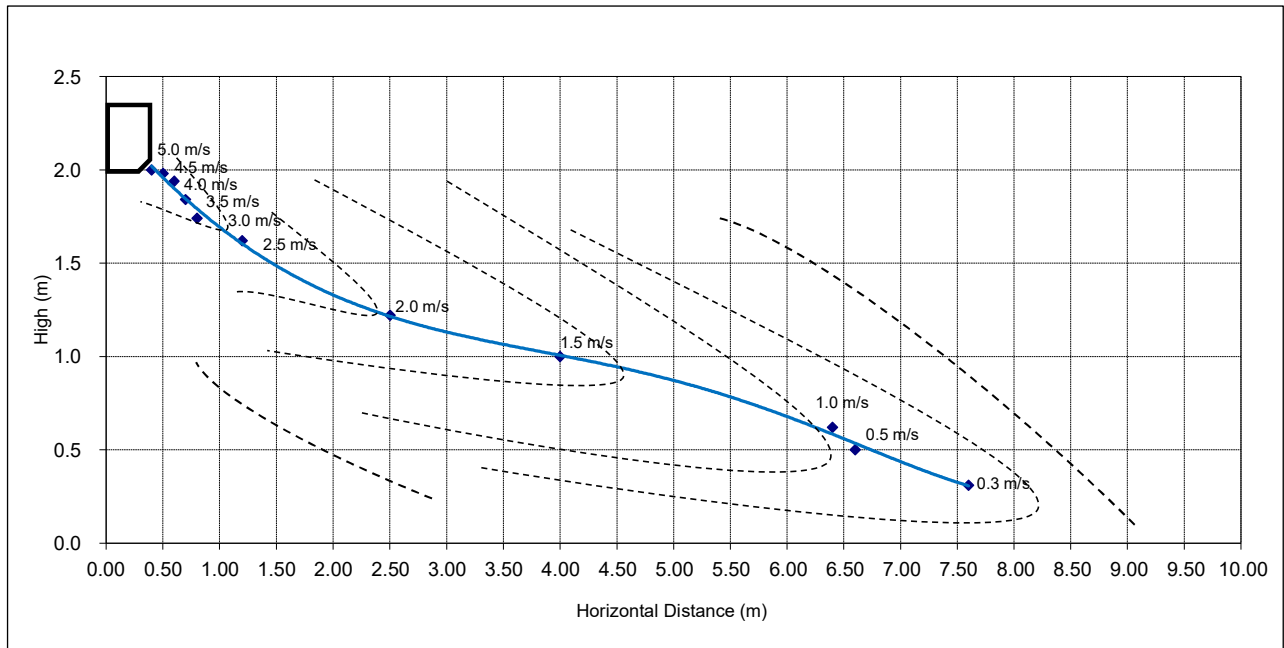


## Heating

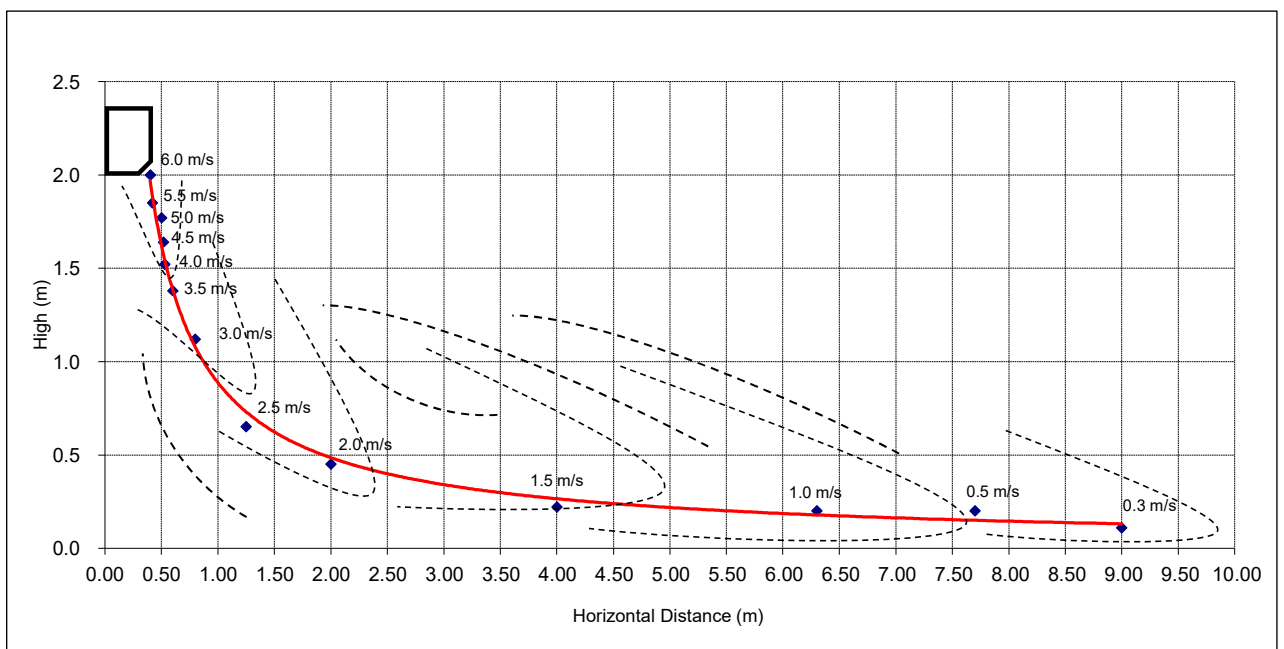


## RAS-18E2KVG-E

## Cooling



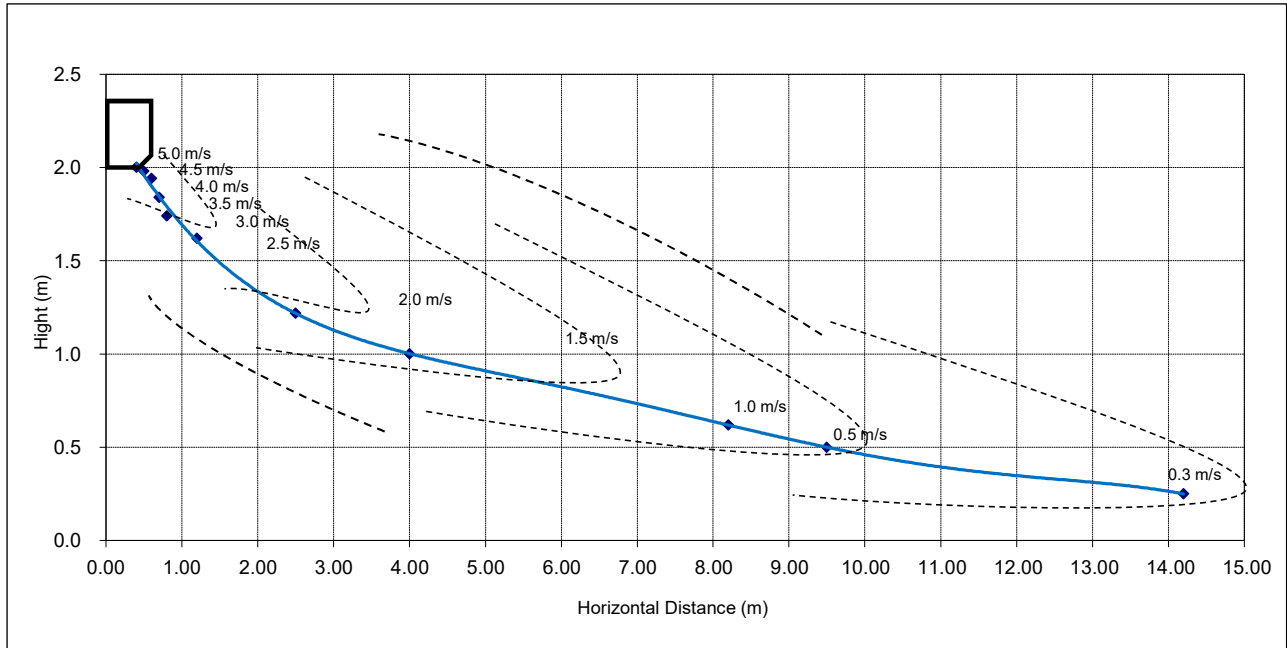
## Heating



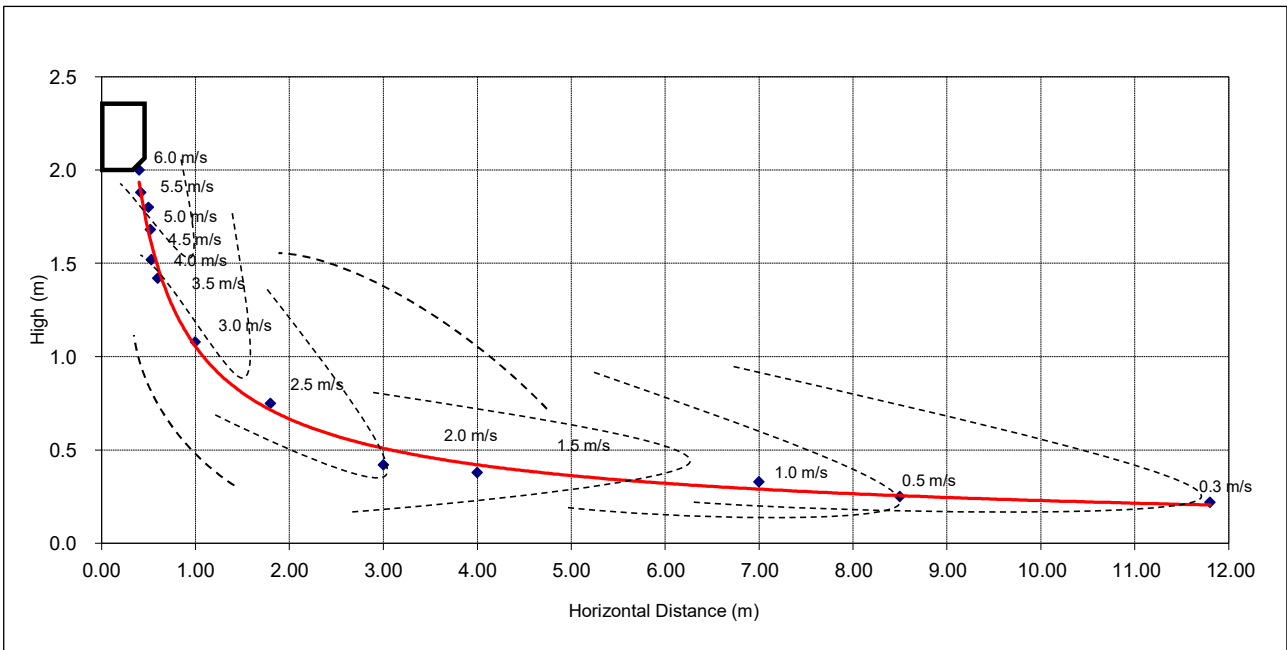


RAS-24E2KVG-E

Cooling



Heating

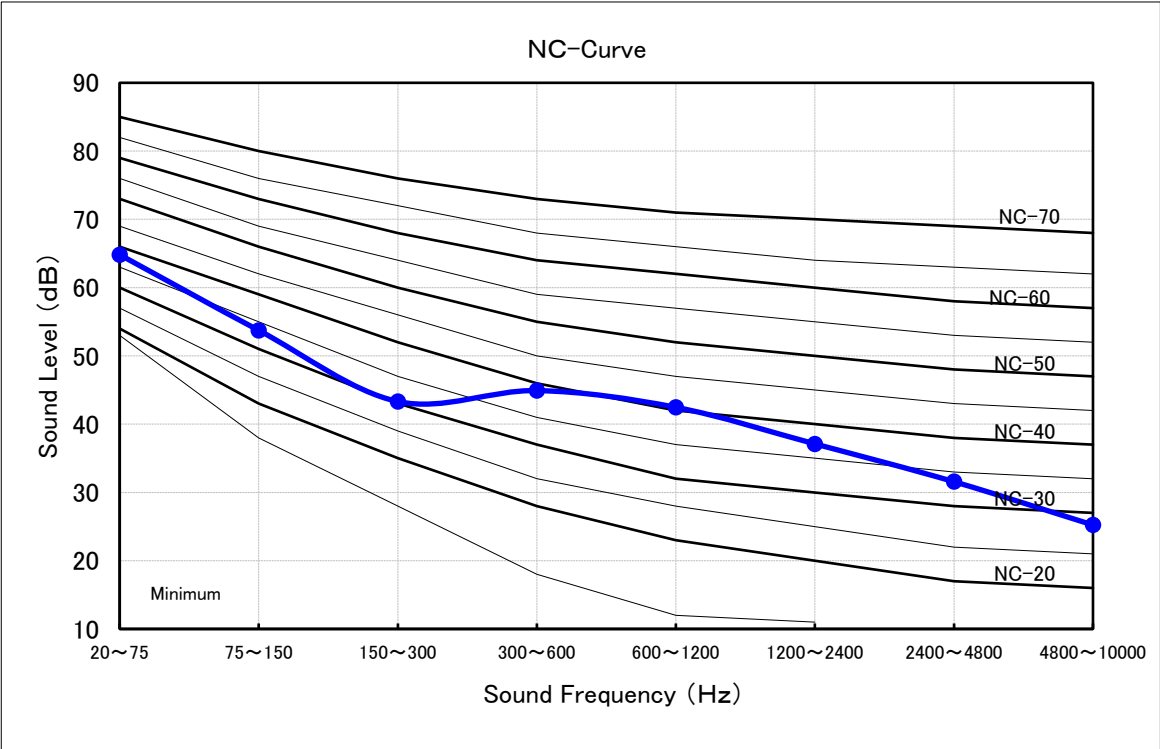


7. Sound Characteristics (NC Curve)

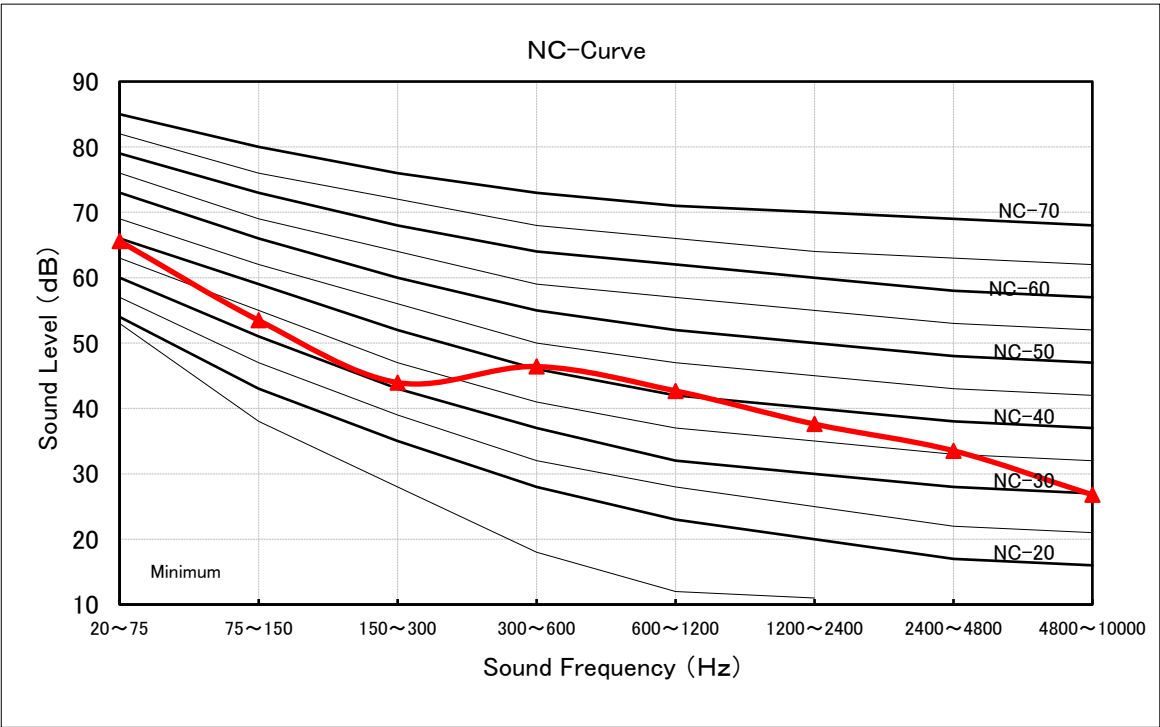
Outdoor Unit : RAS-05E2AVG-E (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 47                 | 48      |

Cooling



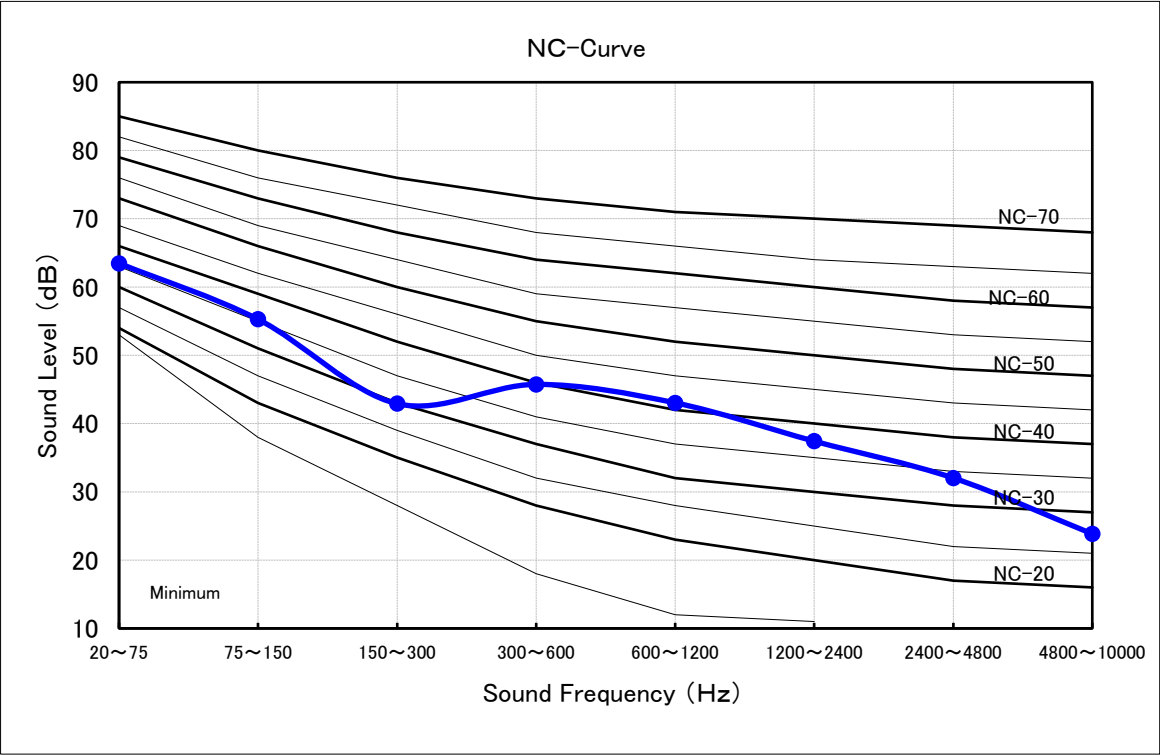
Heating



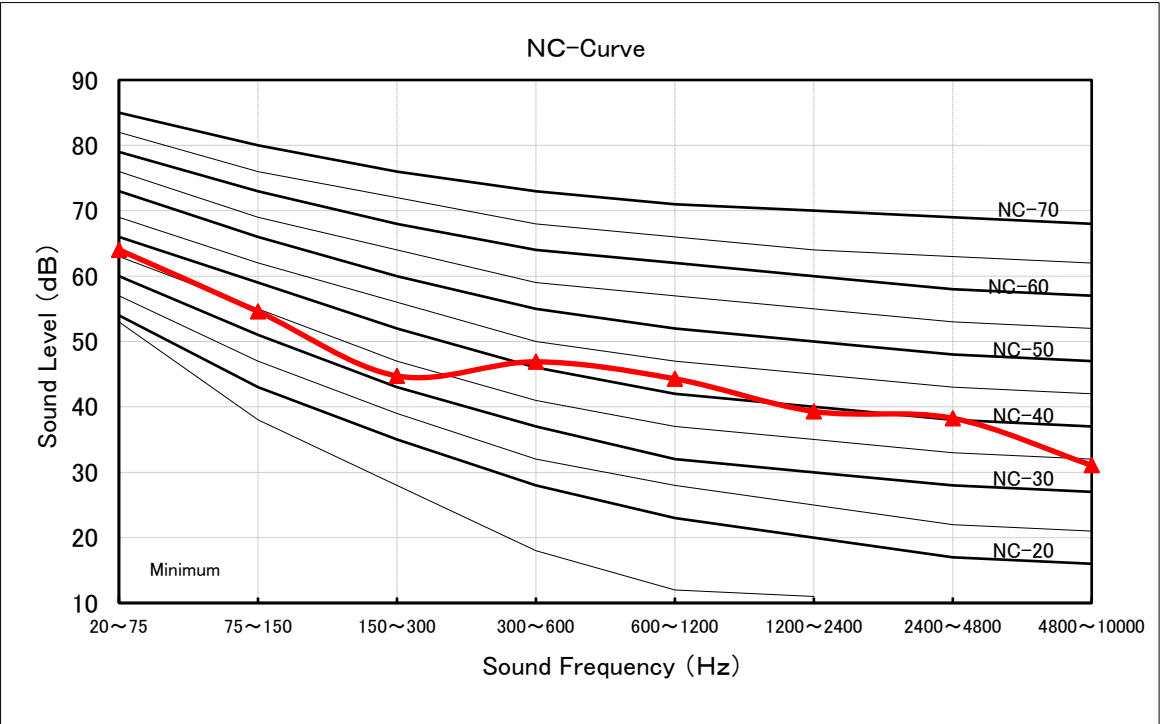
Outdoor Unit : RAS-07E2AVG-E (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 47                 | 49      |

Cooling



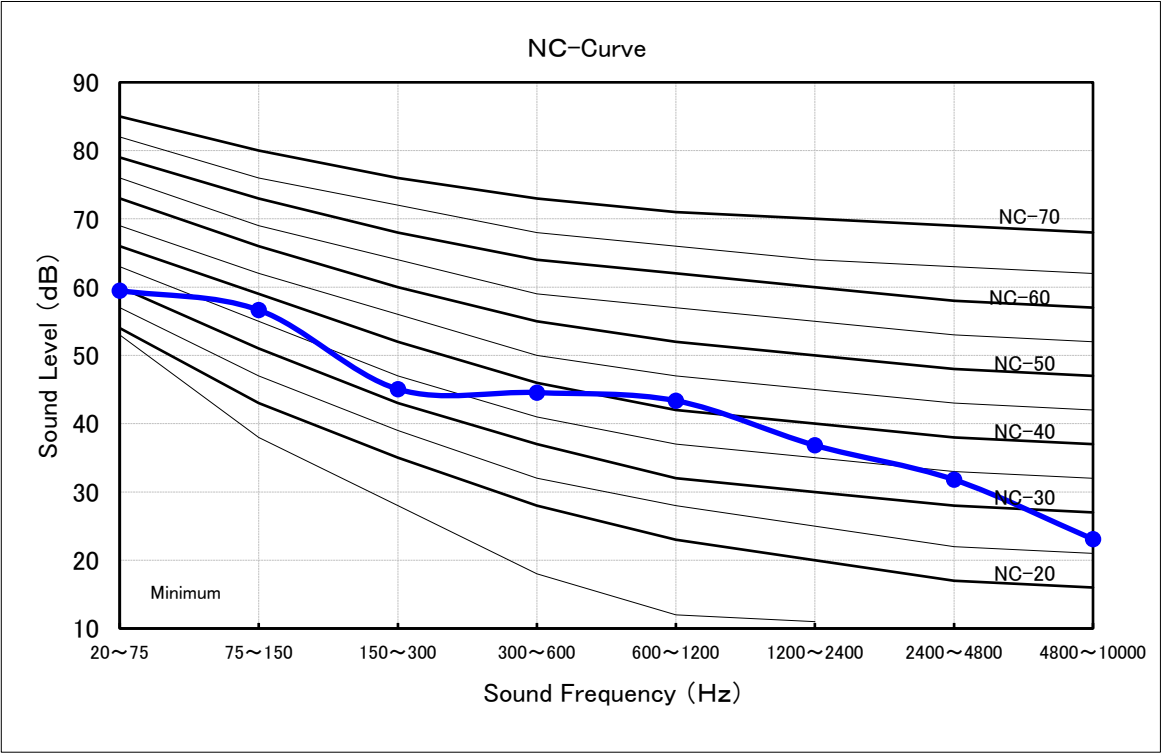
Heating



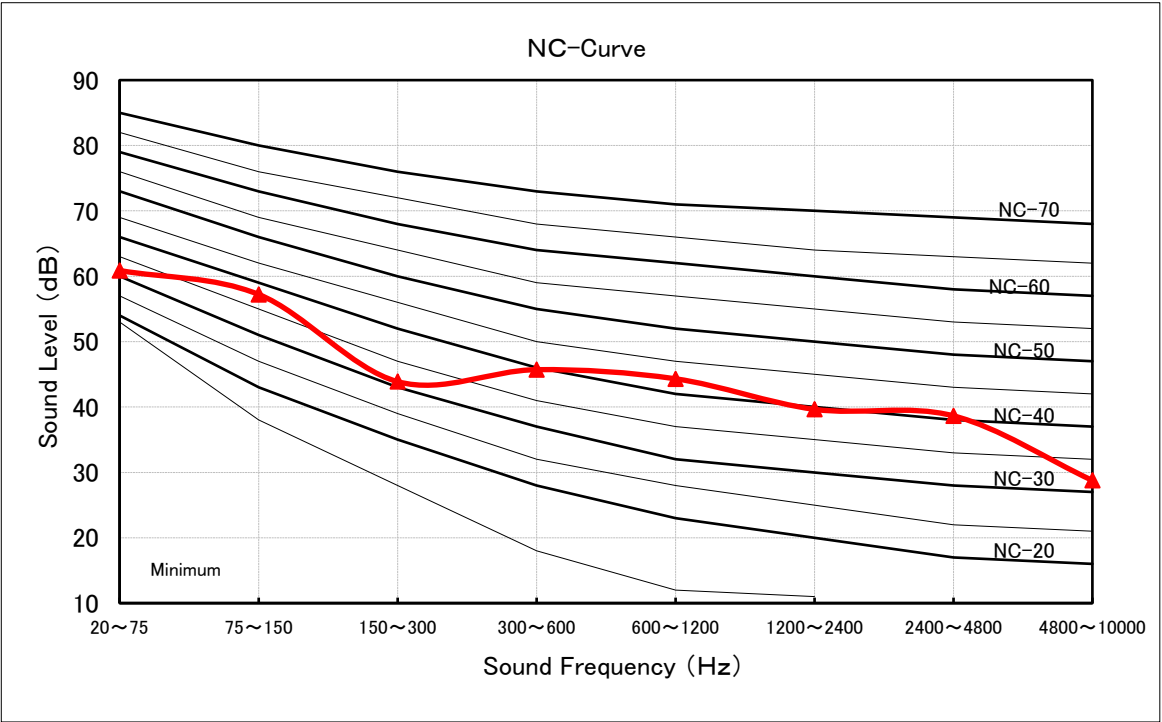
Outdoor Unit : RAS-10E2AVG-E    (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 47                 | 49      |

Cooling



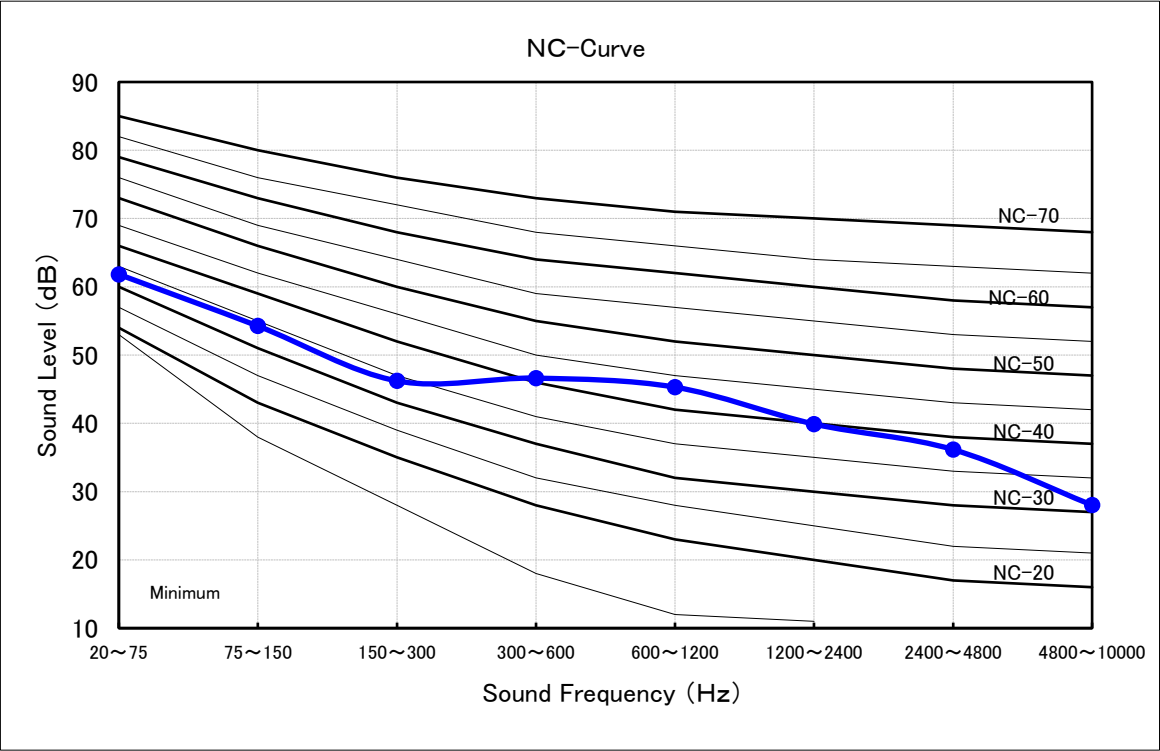
Heating



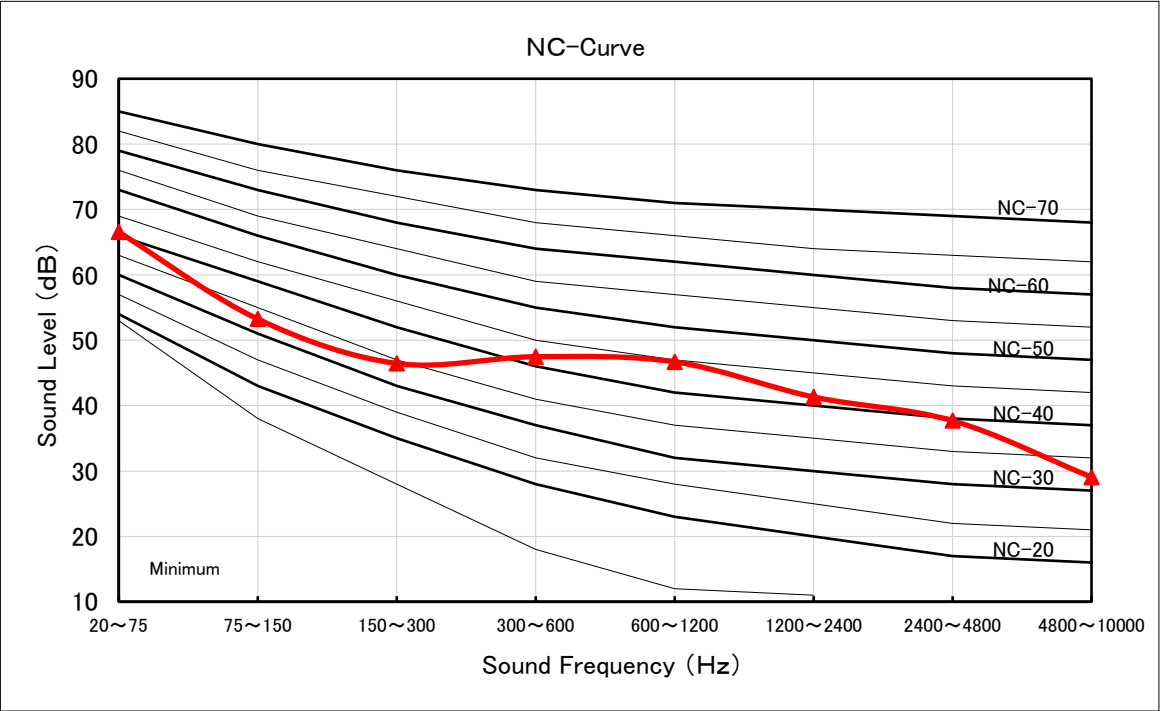
Outdoor Unit : RAS-13E2AVG-E (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 48                 | 49      |

Cooling



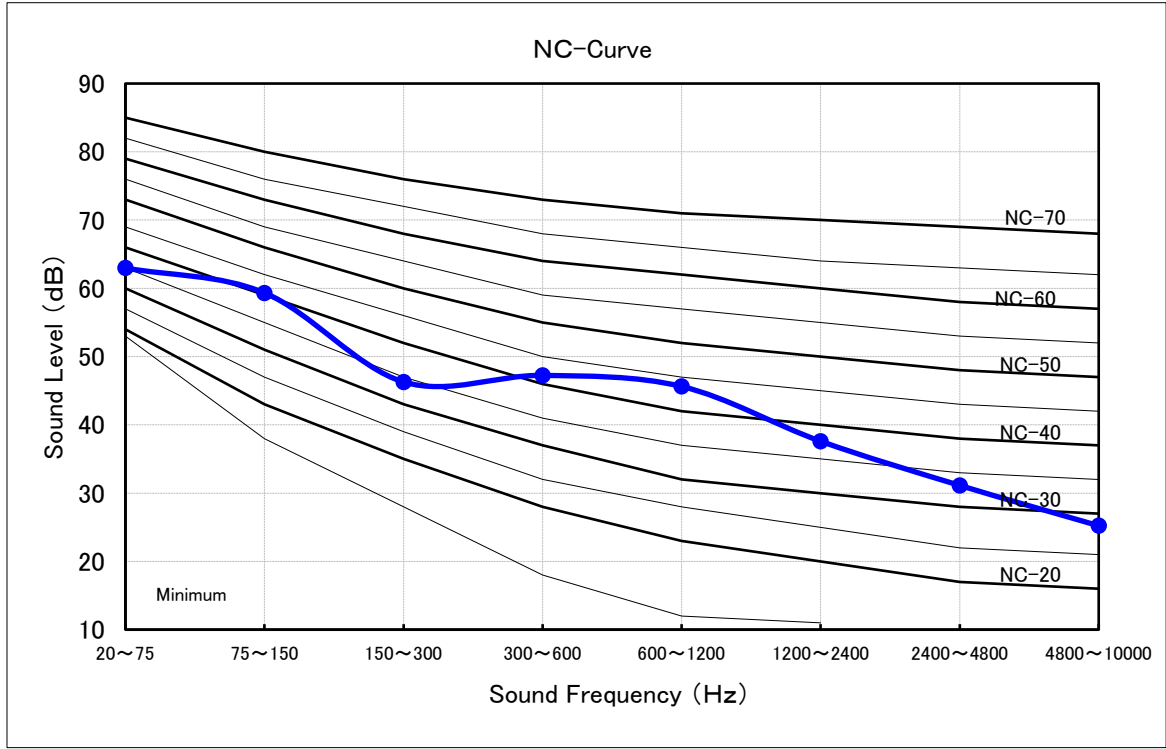
Heating



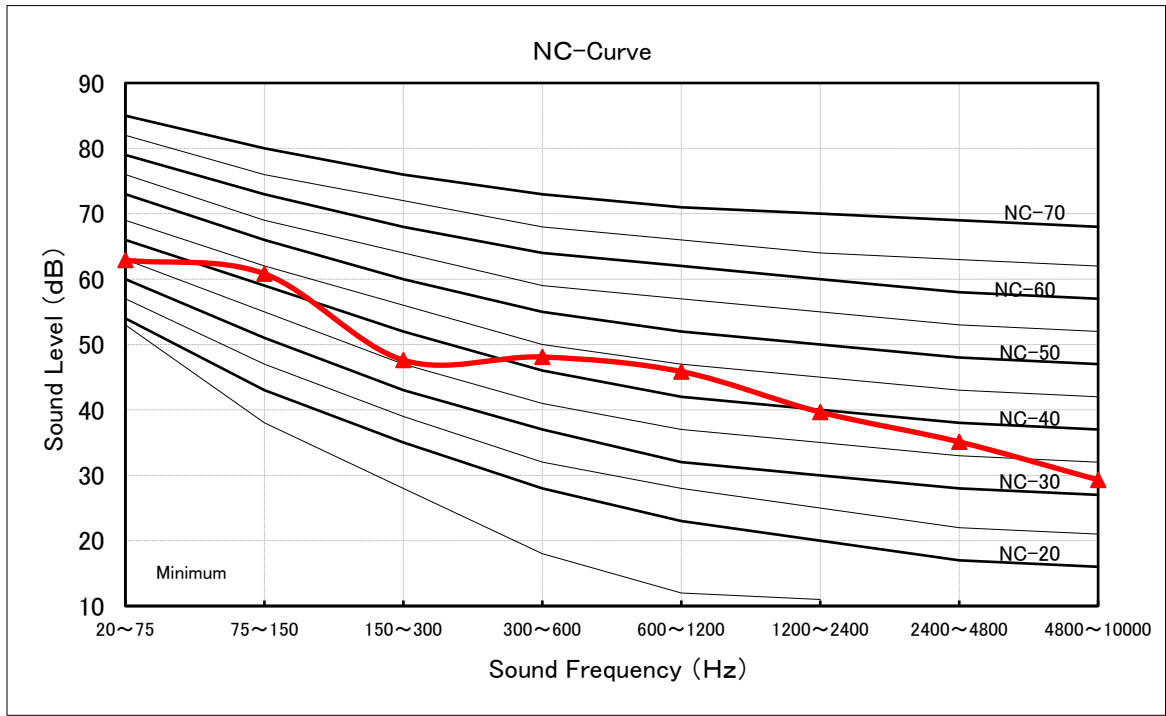
Outdoor Unit : RAS-16E2AVG-E (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 50                 | 51      |

Cooling



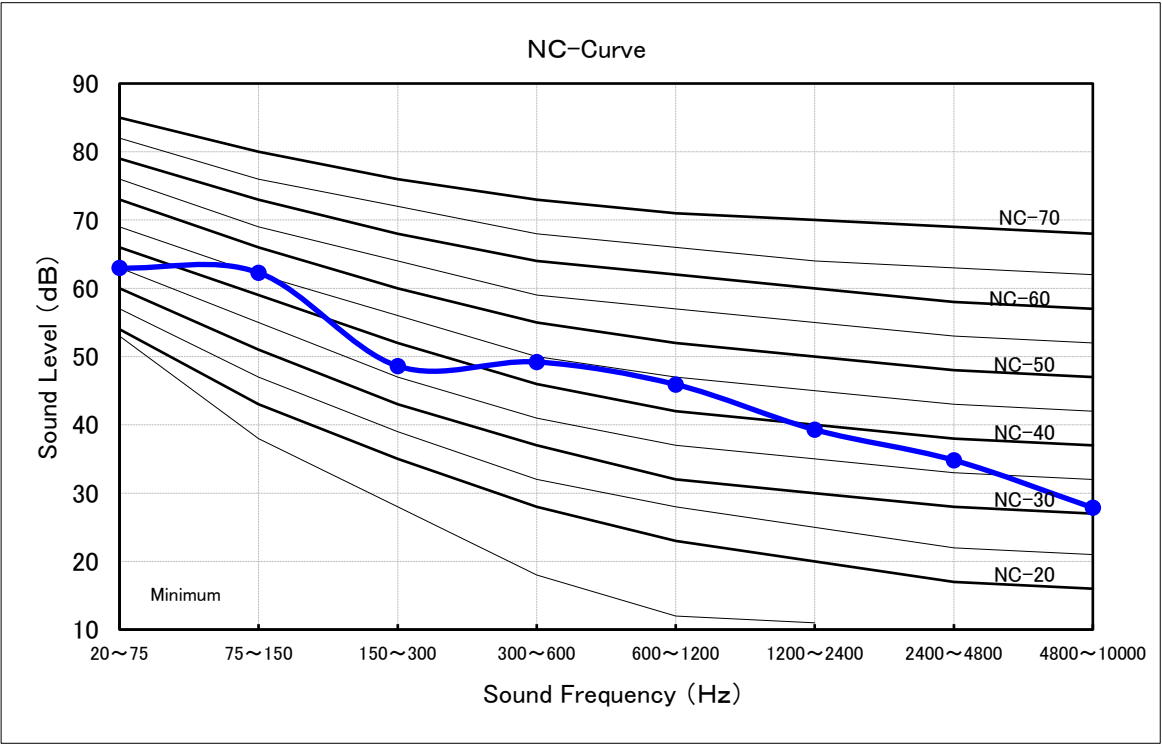
Heating



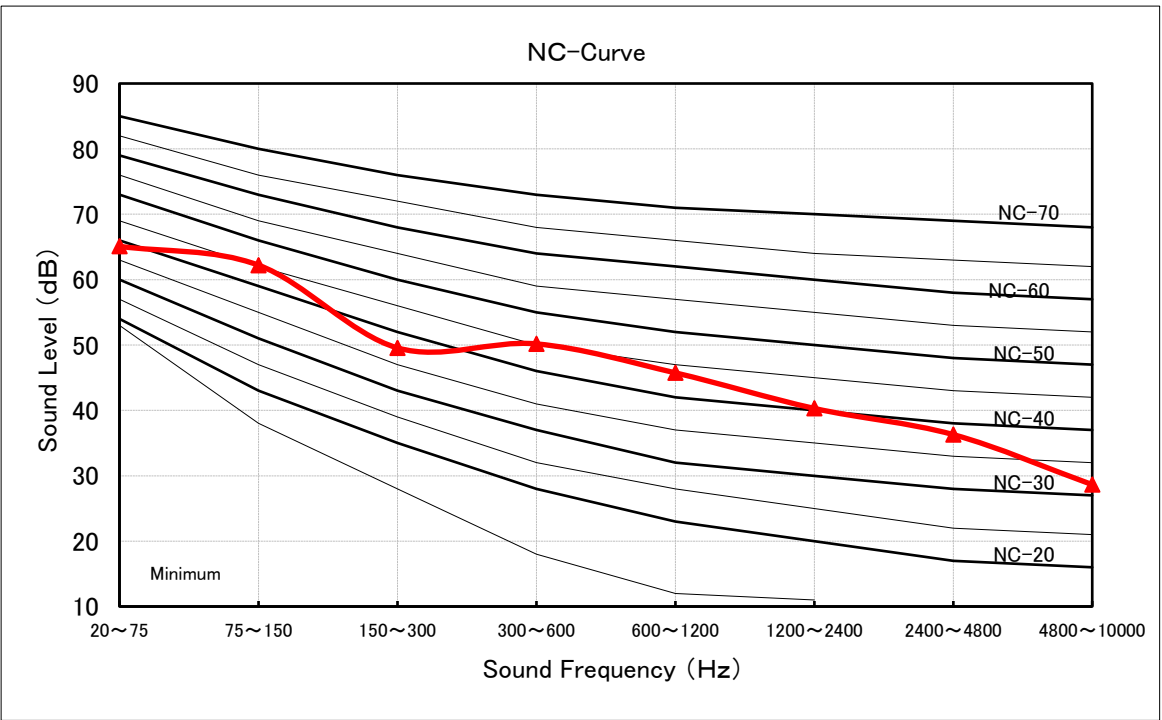
Outdoor Unit : RAS-18E2AVG-E    (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 50                 | 51      |

Cooling



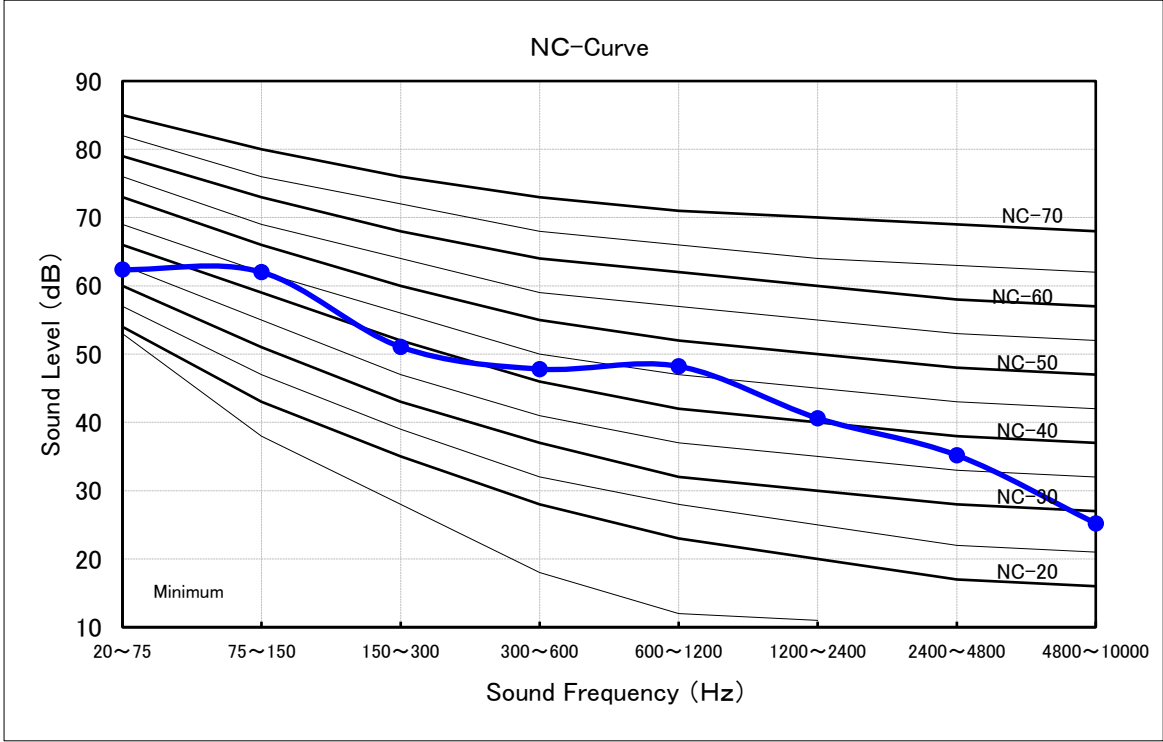
Heating



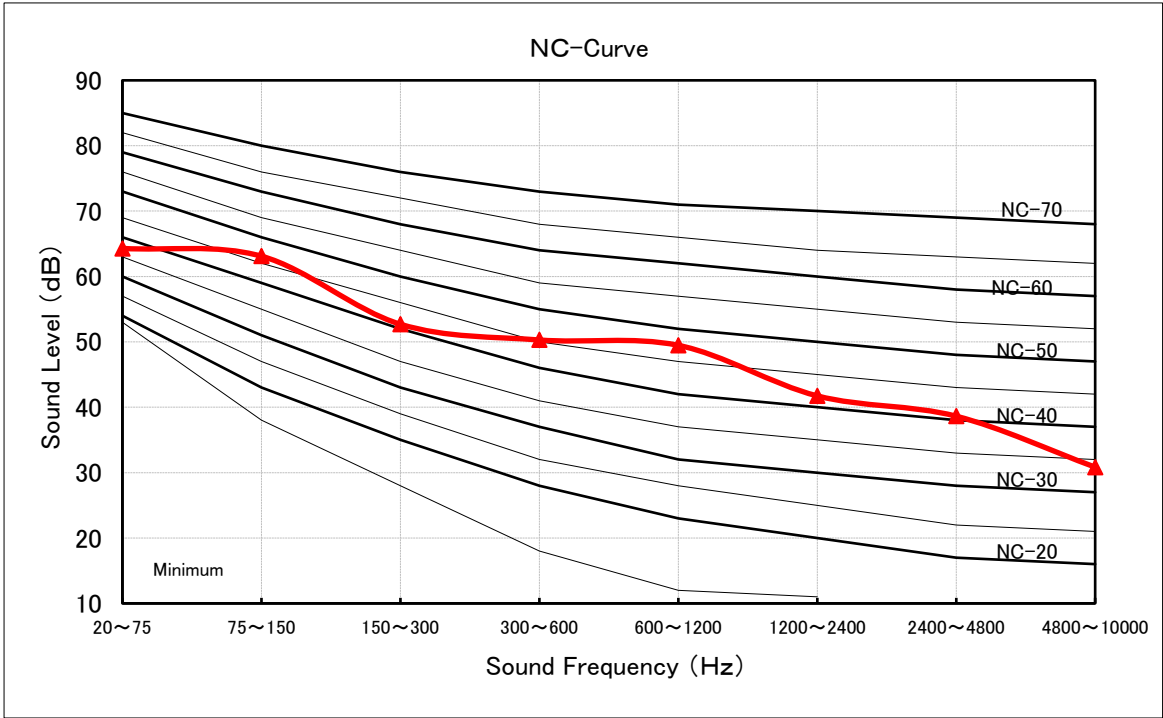
Outdoor Unit : RAS-24E2AVG-E    (Rated Conditions)

| Measured point   | Specification (dB) |         |
|------------------|--------------------|---------|
|                  | Cooling            | Heating |
| Horizontal 1.0 m | 54                 | 54      |

Cooling



Heating





## 8. Capacity Table

Product models : RAS-B05E2KVG-E / RAS-05E2AVG-E

Specification of product at standard condition

|                    |         |                       |                              |         |
|--------------------|---------|-----------------------|------------------------------|---------|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  | 1.50 kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) | 1.20 kW |

| Outdoor air temperature<br><br>DB (°C) | Indoor air temperature     |             |                            |             |                            |             |                            |             |                            |             |                            |             |                            |             |
|----------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
|                                        | 20.0°C (DB)<br>14.0°C (WB) |             | 23.0°C (DB)<br>16.0°C (WB) |             | 26.0°C (DB)<br>18.0°C (WB) |             | 27.0°C (DB)<br>19.0°C (WB) |             | 28.0°C (DB)<br>20.0°C (WB) |             | 30.0°C (DB)<br>22.0°C (WB) |             | 32.0°C (DB)<br>24.0°C (WB) |             |
|                                        | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         |
| 20                                     | 1.47                       | 1.26        | 1.62                       | 1.35        | 1.74                       | 1.43        | 1.79                       | 1.43        | 1.84                       | 1.43        | 1.95                       | 1.42        | 2.04                       | 1.39        |
| 21                                     | 1.45                       | 1.25        | 1.61                       | 1.33        | 1.72                       | 1.42        | 1.77                       | 1.42        | 1.82                       | 1.41        | 1.93                       | 1.40        | 2.02                       | 1.37        |
| 22                                     | 1.44                       | 1.24        | 1.59                       | 1.32        | 1.70                       | 1.40        | 1.75                       | 1.40        | 1.80                       | 1.40        | 1.91                       | 1.39        | 1.99                       | 1.36        |
| 23                                     | 1.42                       | 1.22        | 1.57                       | 1.30        | 1.68                       | 1.39        | 1.73                       | 1.38        | 1.78                       | 1.38        | 1.89                       | 1.37        | 1.97                       | 1.34        |
| 24                                     | 1.41                       | 1.21        | 1.55                       | 1.29        | 1.66                       | 1.37        | 1.71                       | 1.37        | 1.76                       | 1.37        | 1.86                       | 1.36        | 1.95                       | 1.33        |
| 25                                     | 1.39                       | 1.20        | 1.54                       | 1.28        | 1.64                       | 1.36        | 1.69                       | 1.35        | 1.74                       | 1.35        | 1.84                       | 1.34        | 1.93                       | 1.31        |
| 26                                     | 1.37                       | 1.18        | 1.52                       | 1.26        | 1.63                       | 1.34        | 1.67                       | 1.34        | 1.72                       | 1.34        | 1.82                       | 1.33        | 1.91                       | 1.30        |
| 27                                     | 1.36                       | 1.17        | 1.50                       | 1.25        | 1.61                       | 1.33        | 1.65                       | 1.32        | 1.70                       | 1.32        | 1.80                       | 1.31        | 1.88                       | 1.28        |
| 28                                     | 1.34                       | 1.16        | 1.48                       | 1.23        | 1.59                       | 1.31        | 1.63                       | 1.31        | 1.68                       | 1.31        | 1.78                       | 1.29        | 1.86                       | 1.27        |
| 29                                     | 1.33                       | 1.14        | 1.47                       | 1.22        | 1.57                       | 1.29        | 1.62                       | 1.29        | 1.66                       | 1.29        | 1.76                       | 1.28        | 1.84                       | 1.26        |
| 30                                     | 1.31                       | 1.13        | 1.45                       | 1.20        | 1.55                       | 1.28        | 1.60                       | 1.28        | 1.64                       | 1.28        | 1.74                       | 1.26        | 1.82                       | 1.24        |
| 31                                     | 1.30                       | 1.12        | 1.43                       | 1.19        | 1.53                       | 1.26        | 1.58                       | 1.26        | 1.62                       | 1.26        | 1.72                       | 1.25        | 1.80                       | 1.23        |
| 32                                     | 1.28                       | 1.10        | 1.41                       | 1.17        | 1.51                       | 1.25        | 1.56                       | 1.25        | 1.60                       | 1.25        | 1.70                       | 1.23        | 1.77                       | 1.21        |
| 33                                     | 1.26                       | 1.09        | 1.40                       | 1.16        | 1.49                       | 1.23        | 1.54                       | 1.23        | 1.58                       | 1.23        | 1.68                       | 1.22        | 1.75                       | 1.20        |
| 34                                     | 1.25                       | 1.07        | 1.38                       | 1.15        | 1.48                       | 1.22        | 1.52                       | 1.22        | 1.56                       | 1.21        | 1.65                       | 1.20        | 1.73                       | 1.18        |
| <b>35</b>                              | <b>1.23</b>                | <b>1.06</b> | <b>1.36</b>                | <b>1.13</b> | <b>1.46</b>                | <b>1.20</b> | <b>1.50</b>                | <b>1.20</b> | <b>1.54</b>                | <b>1.20</b> | <b>1.63</b>                | <b>1.19</b> | <b>1.71</b>                | <b>1.17</b> |
| 36                                     | 1.22                       | 1.05        | 1.34                       | 1.12        | 1.44                       | 1.19        | 1.48                       | 1.18        | 1.52                       | 1.18        | 1.61                       | 1.17        | 1.69                       | 1.15        |
| 37                                     | 1.20                       | 1.03        | 1.33                       | 1.10        | 1.42                       | 1.17        | 1.46                       | 1.17        | 1.50                       | 1.17        | 1.59                       | 1.16        | 1.67                       | 1.14        |
| 38                                     | 1.18                       | 1.02        | 1.31                       | 1.09        | 1.40                       | 1.16        | 1.44                       | 1.15        | 1.48                       | 1.15        | 1.57                       | 1.14        | 1.64                       | 1.12        |
| 39                                     | 1.17                       | 1.01        | 1.29                       | 1.07        | 1.38                       | 1.14        | 1.42                       | 1.14        | 1.46                       | 1.14        | 1.55                       | 1.13        | 1.62                       | 1.11        |
| 40                                     | 1.15                       | 0.99        | 1.27                       | 1.06        | 1.36                       | 1.12        | 1.40                       | 1.12        | 1.44                       | 1.12        | 1.53                       | 1.11        | 1.60                       | 1.09        |
| 41                                     | 1.14                       | 0.98        | 1.26                       | 1.04        | 1.34                       | 1.11        | 1.38                       | 1.11        | 1.42                       | 1.11        | 1.51                       | 1.10        | 1.58                       | 1.08        |
| 42                                     | 1.12                       | 0.97        | 1.24                       | 1.03        | 1.33                       | 1.09        | 1.37                       | 1.09        | 1.40                       | 1.09        | 1.49                       | 1.08        | 1.56                       | 1.06        |
| 43                                     | 1.11                       | 0.95        | 1.22                       | 1.01        | 1.31                       | 1.08        | 1.35                       | 1.08        | 1.38                       | 1.08        | 1.47                       | 1.07        | 1.53                       | 1.05        |
| 44                                     | 1.09                       | 0.94        | 1.20                       | 1.00        | 1.29                       | 1.06        | 1.33                       | 1.06        | 1.36                       | 1.06        | 1.45                       | 1.05        | 1.51                       | 1.03        |
| 45                                     | 1.07                       | 0.92        | 1.19                       | 0.99        | 1.27                       | 1.05        | 1.31                       | 1.05        | 1.34                       | 1.05        | 1.42                       | 1.04        | 1.49                       | 1.02        |
| 46                                     | 1.06                       | 0.91        | 1.17                       | 0.97        | 1.25                       | 1.03        | 1.29                       | 1.03        | 1.33                       | 1.03        | 1.40                       | 1.02        | 1.47                       | 1.00        |

**Product models : RAS-B07E2KVG-E / RAS-07E2AVG-E**

Specification of product at standard condition

|                    |         |                       |                              |         |
|--------------------|---------|-----------------------|------------------------------|---------|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  | 2.00 kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) | 1.56 kW |

| Outdoor air temperature<br><br>DB (°C) | Indoor air temperature     |      |                            |      |                            |      |                            |      |                            |      |                            |      |                            |      |
|----------------------------------------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|
|                                        | 20.0°C (DB)<br>14.0°C (WB) |      | 23.0°C (DB)<br>16.0°C (WB) |      | 26.0°C (DB)<br>18.0°C (WB) |      | 27.0°C (DB)<br>19.0°C (WB) |      | 28.0°C (DB)<br>20.0°C (WB) |      | 30.0°C (DB)<br>22.0°C (WB) |      | 32.0°C (DB)<br>24.0°C (WB) |      |
|                                        | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  |
| 20                                     | 1.96                       | 1.65 | 2.16                       | 1.75 | 2.32                       | 1.87 | 2.39                       | 1.86 | 2.45                       | 1.86 | 2.60                       | 1.84 | 2.72                       | 1.80 |
| 21                                     | 1.94                       | 1.63 | 2.14                       | 1.74 | 2.29                       | 1.84 | 2.36                       | 1.84 | 2.43                       | 1.84 | 2.57                       | 1.82 | 2.69                       | 1.78 |
| 22                                     | 1.92                       | 1.61 | 2.12                       | 1.72 | 2.27                       | 1.82 | 2.33                       | 1.82 | 2.40                       | 1.82 | 2.54                       | 1.80 | 2.66                       | 1.76 |
| 23                                     | 1.90                       | 1.59 | 2.09                       | 1.70 | 2.24                       | 1.80 | 2.31                       | 1.80 | 2.37                       | 1.80 | 2.51                       | 1.78 | 2.63                       | 1.74 |
| 24                                     | 1.87                       | 1.58 | 2.07                       | 1.68 | 2.22                       | 1.78 | 2.28                       | 1.78 | 2.35                       | 1.78 | 2.49                       | 1.76 | 2.60                       | 1.72 |
| 25                                     | 1.85                       | 1.56 | 2.05                       | 1.66 | 2.19                       | 1.76 | 2.26                       | 1.76 | 2.32                       | 1.76 | 2.46                       | 1.74 | 2.57                       | 1.70 |
| 26                                     | 1.83                       | 1.54 | 2.02                       | 1.64 | 2.17                       | 1.74 | 2.23                       | 1.74 | 2.29                       | 1.74 | 2.43                       | 1.72 | 2.54                       | 1.68 |
| 27                                     | 1.81                       | 1.52 | 2.00                       | 1.62 | 2.14                       | 1.72 | 2.21                       | 1.72 | 2.27                       | 1.72 | 2.40                       | 1.70 | 2.51                       | 1.66 |
| 28                                     | 1.79                       | 1.51 | 1.98                       | 1.60 | 2.12                       | 1.70 | 2.18                       | 1.70 | 2.24                       | 1.70 | 2.37                       | 1.68 | 2.48                       | 1.64 |
| 29                                     | 1.77                       | 1.49 | 1.95                       | 1.58 | 2.09                       | 1.68 | 2.15                       | 1.68 | 2.22                       | 1.68 | 2.35                       | 1.66 | 2.45                       | 1.62 |
| 30                                     | 1.75                       | 1.47 | 1.93                       | 1.57 | 2.07                       | 1.66 | 2.13                       | 1.66 | 2.19                       | 1.66 | 2.32                       | 1.64 | 2.42                       | 1.60 |
| 31                                     | 1.73                       | 1.45 | 1.91                       | 1.55 | 2.04                       | 1.64 | 2.10                       | 1.64 | 2.16                       | 1.64 | 2.29                       | 1.62 | 2.40                       | 1.59 |
| 32                                     | 1.71                       | 1.43 | 1.88                       | 1.53 | 2.02                       | 1.62 | 2.08                       | 1.62 | 2.14                       | 1.62 | 2.26                       | 1.60 | 2.37                       | 1.57 |
| 33                                     | 1.68                       | 1.42 | 1.86                       | 1.51 | 1.99                       | 1.60 | 2.05                       | 1.60 | 2.11                       | 1.60 | 2.23                       | 1.58 | 2.34                       | 1.55 |
| 34                                     | 1.66                       | 1.40 | 1.84                       | 1.49 | 1.97                       | 1.58 | 2.03                       | 1.58 | 2.08                       | 1.58 | 2.21                       | 1.56 | 2.31                       | 1.53 |
| 35                                     | 1.64                       | 1.38 | 1.81                       | 1.47 | 1.94                       | 1.56 | 2.00                       | 1.56 | 2.06                       | 1.56 | 2.18                       | 1.54 | 2.28                       | 1.51 |
| 36                                     | 1.62                       | 1.36 | 1.79                       | 1.45 | 1.92                       | 1.54 | 1.97                       | 1.54 | 2.03                       | 1.54 | 2.15                       | 1.52 | 2.25                       | 1.49 |
| 37                                     | 1.60                       | 1.35 | 1.77                       | 1.43 | 1.89                       | 1.52 | 1.95                       | 1.52 | 2.00                       | 1.52 | 2.12                       | 1.50 | 2.22                       | 1.47 |
| 38                                     | 1.58                       | 1.33 | 1.74                       | 1.41 | 1.87                       | 1.50 | 1.92                       | 1.50 | 1.98                       | 1.50 | 2.09                       | 1.48 | 2.19                       | 1.45 |
| 39                                     | 1.56                       | 1.31 | 1.72                       | 1.40 | 1.84                       | 1.48 | 1.90                       | 1.48 | 1.95                       | 1.48 | 2.07                       | 1.46 | 2.16                       | 1.43 |
| 40                                     | 1.54                       | 1.29 | 1.70                       | 1.38 | 1.82                       | 1.46 | 1.87                       | 1.46 | 1.93                       | 1.46 | 2.04                       | 1.44 | 2.13                       | 1.41 |
| 41                                     | 1.52                       | 1.27 | 1.67                       | 1.36 | 1.79                       | 1.44 | 1.85                       | 1.44 | 1.90                       | 1.44 | 2.01                       | 1.42 | 2.10                       | 1.39 |
| 42                                     | 1.50                       | 1.26 | 1.65                       | 1.34 | 1.77                       | 1.42 | 1.82                       | 1.42 | 1.87                       | 1.42 | 1.98                       | 1.40 | 2.07                       | 1.37 |
| 43                                     | 1.47                       | 1.24 | 1.63                       | 1.32 | 1.74                       | 1.40 | 1.79                       | 1.40 | 1.85                       | 1.40 | 1.95                       | 1.38 | 2.04                       | 1.35 |
| 44                                     | 1.45                       | 1.22 | 1.60                       | 1.30 | 1.72                       | 1.38 | 1.77                       | 1.38 | 1.82                       | 1.38 | 1.93                       | 1.36 | 2.02                       | 1.33 |
| 45                                     | 1.43                       | 1.20 | 1.58                       | 1.28 | 1.69                       | 1.36 | 1.74                       | 1.36 | 1.79                       | 1.36 | 1.90                       | 1.34 | 1.99                       | 1.31 |
| 46                                     | 1.41                       | 1.19 | 1.56                       | 1.26 | 1.67                       | 1.34 | 1.72                       | 1.34 | 1.77                       | 1.34 | 1.87                       | 1.32 | 1.96                       | 1.30 |

**Product models : RAS-B10E2KVG-E / RAS-10E2AVG-E**

Specification of product at standard condition

|                    |         |                       |                              |  |      |    |
|--------------------|---------|-----------------------|------------------------------|--|------|----|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  |  | 2.50 | kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) |  | 1.90 | kW |

| Outdoor air temperature<br>DB (°C) | Indoor air temperature     |             |                            |             |                            |             |                            |             |                            |             |                            |             |                            |             |
|------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
|                                    | 20.0°C (DB)<br>14.0°C (WB) |             | 23.0°C (DB)<br>16.0°C (WB) |             | 26.0°C (DB)<br>18.0°C (WB) |             | 27.0°C (DB)<br>19.0°C (WB) |             | 28.0°C (DB)<br>20.0°C (WB) |             | 30.0°C (DB)<br>22.0°C (WB) |             | 32.0°C (DB)<br>24.0°C (WB) |             |
|                                    | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         |
| 20                                 | 2.45                       | 2.01        | 2.70                       | 2.14        | 2.90                       | 2.27        | 2.98                       | 2.27        | 3.07                       | 2.26        | 3.25                       | 2.23        | 3.40                       | 2.18        |
| 21                                 | 2.42                       | 1.99        | 2.68                       | 2.12        | 2.86                       | 2.25        | 2.95                       | 2.24        | 3.03                       | 2.24        | 3.21                       | 2.21        | 3.36                       | 2.16        |
| 22                                 | 2.40                       | 1.97        | 2.65                       | 2.09        | 2.83                       | 2.22        | 2.92                       | 2.22        | 3.00                       | 2.21        | 3.18                       | 2.18        | 3.32                       | 2.13        |
| 23                                 | 2.37                       | 1.95        | 2.62                       | 2.07        | 2.80                       | 2.20        | 2.89                       | 2.19        | 2.97                       | 2.19        | 3.14                       | 2.16        | 3.29                       | 2.11        |
| 24                                 | 2.34                       | 1.92        | 2.59                       | 2.05        | 2.77                       | 2.18        | 2.85                       | 2.17        | 2.93                       | 2.16        | 3.11                       | 2.14        | 3.25                       | 2.09        |
| 25                                 | 2.32                       | 1.90        | 2.56                       | 2.02        | 2.74                       | 2.15        | 2.82                       | 2.14        | 2.90                       | 2.14        | 3.07                       | 2.11        | 3.21                       | 2.06        |
| 26                                 | 2.29                       | 1.88        | 2.53                       | 2.00        | 2.71                       | 2.13        | 2.79                       | 2.12        | 2.87                       | 2.11        | 3.04                       | 2.09        | 3.18                       | 2.04        |
| 27                                 | 2.26                       | 1.86        | 2.50                       | 1.98        | 2.68                       | 2.10        | 2.76                       | 2.10        | 2.84                       | 2.09        | 3.00                       | 2.06        | 3.14                       | 2.02        |
| 28                                 | 2.24                       | 1.84        | 2.47                       | 1.95        | 2.65                       | 2.08        | 2.72                       | 2.07        | 2.80                       | 2.07        | 2.97                       | 2.04        | 3.10                       | 1.99        |
| 29                                 | 2.21                       | 1.82        | 2.44                       | 1.93        | 2.62                       | 2.05        | 2.69                       | 2.05        | 2.77                       | 2.04        | 2.93                       | 2.02        | 3.07                       | 1.97        |
| 30                                 | 2.19                       | 1.79        | 2.41                       | 1.91        | 2.58                       | 2.03        | 2.66                       | 2.02        | 2.74                       | 2.02        | 2.90                       | 1.99        | 3.03                       | 1.95        |
| 31                                 | 2.16                       | 1.77        | 2.38                       | 1.89        | 2.55                       | 2.00        | 2.63                       | 2.00        | 2.70                       | 1.99        | 2.86                       | 1.97        | 2.99                       | 1.92        |
| 32                                 | 2.13                       | 1.75        | 2.36                       | 1.86        | 2.52                       | 1.98        | 2.60                       | 1.97        | 2.67                       | 1.97        | 2.83                       | 1.94        | 2.96                       | 1.90        |
| 33                                 | 2.11                       | 1.73        | 2.33                       | 1.84        | 2.49                       | 1.96        | 2.56                       | 1.95        | 2.64                       | 1.94        | 2.79                       | 1.92        | 2.92                       | 1.88        |
| 34                                 | 2.08                       | 1.71        | 2.30                       | 1.82        | 2.46                       | 1.93        | 2.53                       | 1.92        | 2.60                       | 1.92        | 2.76                       | 1.90        | 2.88                       | 1.85        |
| <b>35</b>                          | <b>2.05</b>                | <b>1.69</b> | <b>2.27</b>                | <b>1.79</b> | <b>2.43</b>                | <b>1.91</b> | <b>2.50</b>                | <b>1.90</b> | <b>2.57</b>                | <b>1.90</b> | <b>2.72</b>                | <b>1.87</b> | <b>2.85</b>                | <b>1.83</b> |
| 36                                 | 2.03                       | 1.66        | 2.24                       | 1.77        | 2.40                       | 1.88        | 2.47                       | 1.88        | 2.54                       | 1.87        | 2.69                       | 1.85        | 2.81                       | 1.80        |
| 37                                 | 2.00                       | 1.64        | 2.21                       | 1.75        | 2.37                       | 1.86        | 2.44                       | 1.85        | 2.51                       | 1.85        | 2.65                       | 1.82        | 2.78                       | 1.78        |
| 38                                 | 1.97                       | 1.62        | 2.18                       | 1.72        | 2.34                       | 1.83        | 2.40                       | 1.83        | 2.47                       | 1.82        | 2.62                       | 1.80        | 2.74                       | 1.76        |
| 39                                 | 1.95                       | 1.60        | 2.15                       | 1.70        | 2.30                       | 1.81        | 2.37                       | 1.80        | 2.44                       | 1.80        | 2.58                       | 1.78        | 2.70                       | 1.73        |
| 40                                 | 1.92                       | 1.58        | 2.12                       | 1.68        | 2.27                       | 1.78        | 2.34                       | 1.78        | 2.41                       | 1.77        | 2.55                       | 1.75        | 2.67                       | 1.71        |
| 41                                 | 1.90                       | 1.56        | 2.09                       | 1.66        | 2.24                       | 1.76        | 2.31                       | 1.75        | 2.37                       | 1.75        | 2.51                       | 1.73        | 2.63                       | 1.69        |
| 42                                 | 1.87                       | 1.53        | 2.06                       | 1.63        | 2.21                       | 1.74        | 2.28                       | 1.73        | 2.34                       | 1.73        | 2.48                       | 1.70        | 2.59                       | 1.66        |
| 43                                 | 1.84                       | 1.51        | 2.03                       | 1.61        | 2.18                       | 1.71        | 2.24                       | 1.70        | 2.31                       | 1.70        | 2.44                       | 1.68        | 2.56                       | 1.64        |
| 44                                 | 1.82                       | 1.49        | 2.01                       | 1.59        | 2.15                       | 1.69        | 2.21                       | 1.68        | 2.27                       | 1.68        | 2.41                       | 1.66        | 2.52                       | 1.62        |
| 45                                 | 1.79                       | 1.47        | 1.98                       | 1.56        | 2.12                       | 1.66        | 2.18                       | 1.66        | 2.24                       | 1.65        | 2.37                       | 1.63        | 2.48                       | 1.59        |
| 46                                 | 1.76                       | 1.45        | 1.95                       | 1.54        | 2.09                       | 1.64        | 2.15                       | 1.63        | 2.21                       | 1.63        | 2.34                       | 1.61        | 2.45                       | 1.57        |

**Product models : RAS-B13E2KVG-E / RAS-13E2AVG-E**

Specification of product at standard condition

|                    |         |                       |                              |      |    |
|--------------------|---------|-----------------------|------------------------------|------|----|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  | 3.30 | kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) | 2.45 | kW |

| Outdoor air temperature<br><br>DB (°C) | Indoor air temperature     |             |                            |             |                            |             |                            |             |                            |             |                            |             |                            |             |
|----------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
|                                        | 20.0°C (DB)<br>14.0°C (WB) |             | 23.0°C (DB)<br>16.0°C (WB) |             | 26.0°C (DB)<br>18.0°C (WB) |             | 27.0°C (DB)<br>19.0°C (WB) |             | 28.0°C (DB)<br>20.0°C (WB) |             | 30.0°C (DB)<br>22.0°C (WB) |             | 32.0°C (DB)<br>24.0°C (WB) |             |
|                                        | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         |
| 20                                     | 3.23                       | 2.60        | 3.57                       | 2.76        | 3.82                       | 2.93        | 3.94                       | 2.92        | 4.05                       | 2.91        | 4.29                       | 2.87        | 4.48                       | 2.80        |
| 21                                     | 3.20                       | 2.57        | 3.53                       | 2.73        | 3.78                       | 2.90        | 3.89                       | 2.89        | 4.00                       | 2.88        | 4.24                       | 2.84        | 4.44                       | 2.77        |
| 22                                     | 3.16                       | 2.54        | 3.49                       | 2.70        | 3.74                       | 2.87        | 3.85                       | 2.86        | 3.96                       | 2.85        | 4.19                       | 2.81        | 4.39                       | 2.74        |
| 23                                     | 3.13                       | 2.51        | 3.45                       | 2.67        | 3.70                       | 2.84        | 3.81                       | 2.83        | 3.92                       | 2.82        | 4.15                       | 2.78        | 4.34                       | 2.71        |
| 24                                     | 3.09                       | 2.48        | 3.42                       | 2.64        | 3.66                       | 2.81        | 3.77                       | 2.80        | 3.87                       | 2.79        | 4.10                       | 2.75        | 4.29                       | 2.68        |
| 25                                     | 3.06                       | 2.46        | 3.38                       | 2.61        | 3.62                       | 2.78        | 3.72                       | 2.76        | 3.83                       | 2.76        | 4.06                       | 2.72        | 4.24                       | 2.65        |
| 26                                     | 3.02                       | 2.43        | 3.34                       | 2.58        | 3.58                       | 2.74        | 3.68                       | 2.73        | 3.79                       | 2.73        | 4.01                       | 2.69        | 4.19                       | 2.62        |
| 27                                     | 2.99                       | 2.40        | 3.30                       | 2.55        | 3.53                       | 2.71        | 3.64                       | 2.70        | 3.74                       | 2.69        | 3.96                       | 2.65        | 4.15                       | 2.59        |
| 28                                     | 2.95                       | 2.37        | 3.26                       | 2.52        | 3.49                       | 2.68        | 3.60                       | 2.67        | 3.70                       | 2.66        | 3.92                       | 2.62        | 4.10                       | 2.56        |
| 29                                     | 2.92                       | 2.34        | 3.22                       | 2.49        | 3.45                       | 2.65        | 3.55                       | 2.64        | 3.66                       | 2.63        | 3.87                       | 2.59        | 4.05                       | 2.53        |
| 30                                     | 2.88                       | 2.32        | 3.19                       | 2.46        | 3.41                       | 2.62        | 3.51                       | 2.61        | 3.61                       | 2.60        | 3.83                       | 2.56        | 4.00                       | 2.50        |
| 31                                     | 2.85                       | 2.29        | 3.15                       | 2.43        | 3.37                       | 2.59        | 3.47                       | 2.58        | 3.57                       | 2.57        | 3.78                       | 2.53        | 3.95                       | 2.47        |
| 32                                     | 2.81                       | 2.26        | 3.11                       | 2.40        | 3.33                       | 2.55        | 3.43                       | 2.54        | 3.53                       | 2.54        | 3.73                       | 2.50        | 3.90                       | 2.44        |
| 33                                     | 2.78                       | 2.23        | 3.07                       | 2.37        | 3.29                       | 2.52        | 3.38                       | 2.51        | 3.48                       | 2.51        | 3.69                       | 2.47        | 3.86                       | 2.41        |
| 34                                     | 2.75                       | 2.21        | 3.03                       | 2.34        | 3.25                       | 2.49        | 3.34                       | 2.48        | 3.44                       | 2.47        | 3.64                       | 2.44        | 3.81                       | 2.38        |
| <b>35</b>                              | <b>2.71</b>                | <b>2.18</b> | <b>2.99</b>                | <b>2.32</b> | <b>3.21</b>                | <b>2.46</b> | <b>3.30</b>                | <b>2.45</b> | <b>3.39</b>                | <b>2.44</b> | <b>3.59</b>                | <b>2.41</b> | <b>3.76</b>                | <b>2.35</b> |
| 36                                     | 2.68                       | 2.15        | 2.96                       | 2.29        | 3.16                       | 2.43        | 3.26                       | 2.42        | 3.35                       | 2.41        | 3.55                       | 2.38        | 3.71                       | 2.32        |
| 37                                     | 2.64                       | 2.12        | 2.92                       | 2.26        | 3.12                       | 2.40        | 3.22                       | 2.39        | 3.31                       | 2.38        | 3.50                       | 2.35        | 3.66                       | 2.29        |
| 38                                     | 2.61                       | 2.09        | 2.88                       | 2.23        | 3.08                       | 2.37        | 3.17                       | 2.36        | 3.26                       | 2.35        | 3.46                       | 2.31        | 3.61                       | 2.26        |
| 39                                     | 2.57                       | 2.07        | 2.84                       | 2.20        | 3.04                       | 2.33        | 3.13                       | 2.32        | 3.22                       | 2.32        | 3.41                       | 2.28        | 3.57                       | 2.23        |
| 40                                     | 2.54                       | 2.04        | 2.80                       | 2.17        | 3.00                       | 2.30        | 3.09                       | 2.29        | 3.18                       | 2.29        | 3.36                       | 2.25        | 3.52                       | 2.20        |
| 41                                     | 2.50                       | 2.01        | 2.76                       | 2.14        | 2.96                       | 2.27        | 3.05                       | 2.26        | 3.13                       | 2.25        | 3.32                       | 2.22        | 3.47                       | 2.17        |
| 42                                     | 2.47                       | 1.98        | 2.72                       | 2.11        | 2.92                       | 2.24        | 3.00                       | 2.23        | 3.09                       | 2.22        | 3.27                       | 2.19        | 3.42                       | 2.14        |
| 43                                     | 2.43                       | 1.95        | 2.69                       | 2.08        | 2.88                       | 2.21        | 2.96                       | 2.20        | 3.05                       | 2.19        | 3.23                       | 2.16        | 3.37                       | 2.11        |
| 44                                     | 2.40                       | 1.93        | 2.65                       | 2.05        | 2.84                       | 2.18        | 2.92                       | 2.17        | 3.00                       | 2.16        | 3.18                       | 2.13        | 3.33                       | 2.08        |
| 45                                     | 2.36                       | 1.90        | 2.61                       | 2.02        | 2.79                       | 2.14        | 2.88                       | 2.14        | 2.96                       | 2.13        | 3.13                       | 2.10        | 3.28                       | 2.05        |
| 46                                     | 2.33                       | 1.87        | 2.57                       | 1.99        | 2.75                       | 2.11        | 2.83                       | 2.10        | 2.92                       | 2.10        | 3.09                       | 2.07        | 3.23                       | 2.02        |

**Product models : RAS-B16E2KVG-E / RAS-16E2AVG-E**

Specification of product at standard condition

|                    |         |                       |                              |         |
|--------------------|---------|-----------------------|------------------------------|---------|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  | 4.20 kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) | 3.20 kW |

| Outdoor air<br>temperature<br><br>DB (°C) | Indoor air temperature     |             |                            |             |                            |             |                            |             |                            |             |                            |             |                            |             |
|-------------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
|                                           | 20.0°C (DB)<br>14.0°C (WB) |             | 23.0°C (DB)<br>16.0°C (WB) |             | 26.0°C (DB)<br>18.0°C (WB) |             | 27.0°C (DB)<br>19.0°C (WB) |             | 28.0°C (DB)<br>20.0°C (WB) |             | 30.0°C (DB)<br>22.0°C (WB) |             | 32.0°C (DB)<br>24.0°C (WB) |             |
|                                           | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         |
| 20                                        | 4.11                       | 3.38        | 4.54                       | 3.60        | 4.87                       | 3.83        | 5.01                       | 3.82        | 5.15                       | 3.81        | 5.46                       | 3.76        | 5.71                       | 3.67        |
| 21                                        | 4.07                       | 3.35        | 4.49                       | 3.56        | 4.81                       | 3.79        | 4.95                       | 3.77        | 5.10                       | 3.77        | 5.40                       | 3.72        | 5.64                       | 3.63        |
| 22                                        | 4.03                       | 3.31        | 4.45                       | 3.52        | 4.76                       | 3.75        | 4.90                       | 3.73        | 5.04                       | 3.73        | 5.34                       | 3.68        | 5.58                       | 3.59        |
| 23                                        | 3.98                       | 3.28        | 4.40                       | 3.49        | 4.71                       | 3.70        | 4.85                       | 3.69        | 4.99                       | 3.69        | 5.28                       | 3.64        | 5.52                       | 3.56        |
| 24                                        | 3.94                       | 3.24        | 4.35                       | 3.45        | 4.66                       | 3.66        | 4.79                       | 3.65        | 4.93                       | 3.64        | 5.22                       | 3.60        | 5.46                       | 3.52        |
| 25                                        | 3.89                       | 3.20        | 4.30                       | 3.41        | 4.60                       | 3.62        | 4.74                       | 3.61        | 4.87                       | 3.60        | 5.16                       | 3.56        | 5.40                       | 3.48        |
| 26                                        | 3.85                       | 3.17        | 4.25                       | 3.37        | 4.55                       | 3.58        | 4.69                       | 3.57        | 4.82                       | 3.56        | 5.10                       | 3.52        | 5.34                       | 3.44        |
| 27                                        | 3.80                       | 3.13        | 4.20                       | 3.33        | 4.50                       | 3.54        | 4.63                       | 3.53        | 4.76                       | 3.52        | 5.04                       | 3.48        | 5.28                       | 3.40        |
| 28                                        | 3.76                       | 3.09        | 4.15                       | 3.29        | 4.45                       | 3.50        | 4.58                       | 3.49        | 4.71                       | 3.48        | 4.99                       | 3.44        | 5.21                       | 3.36        |
| 29                                        | 3.72                       | 3.06        | 4.10                       | 3.25        | 4.39                       | 3.46        | 4.52                       | 3.45        | 4.65                       | 3.44        | 4.93                       | 3.40        | 5.15                       | 3.32        |
| 30                                        | 3.67                       | 3.02        | 4.05                       | 3.21        | 4.34                       | 3.42        | 4.47                       | 3.41        | 4.60                       | 3.40        | 4.87                       | 3.35        | 5.09                       | 3.28        |
| 31                                        | 3.63                       | 2.98        | 4.01                       | 3.18        | 4.29                       | 3.38        | 4.42                       | 3.36        | 4.54                       | 3.36        | 4.81                       | 3.31        | 5.03                       | 3.24        |
| 32                                        | 3.58                       | 2.95        | 3.96                       | 3.14        | 4.24                       | 3.33        | 4.36                       | 3.32        | 4.49                       | 3.32        | 4.75                       | 3.27        | 4.97                       | 3.20        |
| 33                                        | 3.54                       | 2.91        | 3.91                       | 3.10        | 4.18                       | 3.29        | 4.31                       | 3.28        | 4.43                       | 3.28        | 4.69                       | 3.23        | 4.91                       | 3.16        |
| 34                                        | 3.49                       | 2.87        | 3.86                       | 3.06        | 4.13                       | 3.25        | 4.25                       | 3.24        | 4.38                       | 3.23        | 4.63                       | 3.19        | 4.85                       | 3.12        |
| <b>35</b>                                 | <b>3.45</b>                | <b>2.84</b> | <b>3.81</b>                | <b>3.02</b> | <b>4.08</b>                | <b>3.21</b> | <b>4.20</b>                | <b>3.20</b> | <b>4.32</b>                | <b>3.19</b> | <b>4.58</b>                | <b>3.15</b> | <b>4.79</b>                | <b>3.08</b> |
| 36                                        | 3.41                       | 2.80        | 3.76                       | 2.98        | 4.03                       | 3.17        | 4.15                       | 3.16        | 4.26                       | 3.15        | 4.52                       | 3.11        | 4.72                       | 3.04        |
| 37                                        | 3.36                       | 2.77        | 3.71                       | 2.94        | 3.98                       | 3.13        | 4.09                       | 3.12        | 4.21                       | 3.11        | 4.46                       | 3.07        | 4.66                       | 3.00        |
| 38                                        | 3.32                       | 2.73        | 3.66                       | 2.90        | 3.92                       | 3.09        | 4.04                       | 3.08        | 4.15                       | 3.07        | 4.40                       | 3.03        | 4.60                       | 2.96        |
| 39                                        | 3.27                       | 2.69        | 3.61                       | 2.87        | 3.87                       | 3.05        | 3.98                       | 3.04        | 4.10                       | 3.03        | 4.34                       | 2.99        | 4.54                       | 2.92        |
| 40                                        | 3.02                       | 2.49        | 3.34                       | 2.65        | 3.58                       | 2.81        | 3.68                       | 2.80        | 3.79                       | 2.80        | 4.01                       | 2.76        | 4.19                       | 2.70        |
| 41                                        | 2.94                       | 2.42        | 3.25                       | 2.58        | 3.48                       | 2.74        | 3.58                       | 2.73        | 3.68                       | 2.72        | 3.90                       | 2.69        | 4.08                       | 2.63        |
| 42                                        | 2.86                       | 2.36        | 3.16                       | 2.51        | 3.39                       | 2.66        | 3.49                       | 2.66        | 3.59                       | 2.65        | 3.80                       | 2.62        | 3.97                       | 2.56        |
| 43                                        | 2.79                       | 2.29        | 3.08                       | 2.44        | 3.30                       | 2.59        | 3.39                       | 2.59        | 3.49                       | 2.58        | 3.70                       | 2.55        | 3.87                       | 2.49        |
| 44                                        | 2.71                       | 2.23        | 3.00                       | 2.37        | 3.21                       | 2.52        | 3.30                       | 2.52        | 3.40                       | 2.51        | 3.60                       | 2.48        | 3.76                       | 2.42        |
| 45                                        | 2.64                       | 2.17        | 2.91                       | 2.31        | 3.12                       | 2.46        | 3.21                       | 2.45        | 3.31                       | 2.44        | 3.50                       | 2.41        | 3.66                       | 2.36        |
| 46                                        | 2.57                       | 2.11        | 2.84                       | 2.25        | 3.04                       | 2.39        | 3.13                       | 2.38        | 3.22                       | 2.38        | 3.41                       | 2.35        | 3.56                       | 2.29        |

**Product models : RAS-18E2KVG-E / RAS-18E2AVG-E**

Specification of product at standard condition

|                    |         |                       |                              |         |
|--------------------|---------|-----------------------|------------------------------|---------|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  | 5.00 kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) | 3.50 kW |

| Outdoor air temperature<br>DB (°C) | Indoor air temperature     |      |                            |      |                            |      |                            |      |                            |      |                            |      |                            |      |
|------------------------------------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|
|                                    | 20.0°C (DB)<br>14.0°C (WB) |      | 23.0°C (DB)<br>16.0°C (WB) |      | 26.0°C (DB)<br>18.0°C (WB) |      | 27.0°C (DB)<br>19.0°C (WB) |      | 28.0°C (DB)<br>20.0°C (WB) |      | 30.0°C (DB)<br>22.0°C (WB) |      | 32.0°C (DB)<br>24.0°C (WB) |      |
|                                    | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  | TC                         | SHC  |
| 20                                 | 4.90                       | 3.73 | 5.41                       | 3.95 | 5.79                       | 4.20 | 5.96                       | 4.17 | 6.13                       | 4.15 | 6.49                       | 4.07 | 6.79                       | 3.95 |
| 21                                 | 4.84                       | 3.69 | 5.35                       | 3.91 | 5.73                       | 4.15 | 5.90                       | 4.13 | 6.07                       | 4.11 | 6.43                       | 4.03 | 6.72                       | 3.91 |
| 22                                 | 4.79                       | 3.65 | 5.29                       | 3.87 | 5.67                       | 4.11 | 5.83                       | 4.08 | 6.00                       | 4.06 | 6.36                       | 3.99 | 6.65                       | 3.87 |
| 23                                 | 4.74                       | 3.61 | 5.23                       | 3.83 | 5.60                       | 4.06 | 5.77                       | 4.04 | 5.94                       | 4.02 | 6.29                       | 3.94 | 6.57                       | 3.83 |
| 24                                 | 4.69                       | 3.57 | 5.18                       | 3.78 | 5.54                       | 4.02 | 5.71                       | 3.99 | 5.87                       | 3.98 | 6.22                       | 3.90 | 6.50                       | 3.78 |
| 25                                 | 4.63                       | 3.53 | 5.12                       | 3.74 | 5.48                       | 3.97 | 5.64                       | 3.95 | 5.80                       | 3.93 | 6.15                       | 3.85 | 6.43                       | 3.74 |
| 26                                 | 4.58                       | 3.49 | 5.06                       | 3.70 | 5.42                       | 3.93 | 5.58                       | 3.90 | 5.74                       | 3.89 | 6.08                       | 3.81 | 6.35                       | 3.70 |
| 27                                 | 4.53                       | 3.45 | 5.00                       | 3.66 | 5.36                       | 3.88 | 5.51                       | 3.86 | 5.67                       | 3.84 | 6.01                       | 3.77 | 6.28                       | 3.66 |
| 28                                 | 4.48                       | 3.41 | 4.94                       | 3.61 | 5.29                       | 3.84 | 5.45                       | 3.81 | 5.61                       | 3.80 | 5.94                       | 3.72 | 6.21                       | 3.61 |
| 29                                 | 4.42                       | 3.37 | 4.88                       | 3.57 | 5.23                       | 3.79 | 5.39                       | 3.77 | 5.54                       | 3.75 | 5.87                       | 3.68 | 6.14                       | 3.57 |
| 30                                 | 4.37                       | 3.33 | 4.83                       | 3.53 | 5.17                       | 3.75 | 5.32                       | 3.72 | 5.47                       | 3.71 | 5.80                       | 3.64 | 6.06                       | 3.53 |
| 31                                 | 4.32                       | 3.29 | 4.77                       | 3.49 | 5.11                       | 3.70 | 5.26                       | 3.68 | 5.41                       | 3.66 | 5.73                       | 3.59 | 5.99                       | 3.48 |
| 32                                 | 4.27                       | 3.24 | 4.71                       | 3.44 | 5.04                       | 3.66 | 5.19                       | 3.63 | 5.34                       | 3.62 | 5.66                       | 3.55 | 5.92                       | 3.44 |
| 33                                 | 4.21                       | 3.20 | 4.65                       | 3.40 | 4.98                       | 3.61 | 5.13                       | 3.59 | 5.28                       | 3.57 | 5.59                       | 3.50 | 5.84                       | 3.40 |
| 34                                 | 4.16                       | 3.16 | 4.59                       | 3.36 | 4.92                       | 3.57 | 5.06                       | 3.54 | 5.21                       | 3.53 | 5.52                       | 3.46 | 5.77                       | 3.36 |
| 35                                 | 4.11                       | 3.12 | 4.54                       | 3.32 | 4.86                       | 3.52 | 5.00                       | 3.50 | 5.14                       | 3.48 | 5.45                       | 3.42 | 5.70                       | 3.31 |
| 36                                 | 4.05                       | 3.08 | 4.48                       | 3.27 | 4.79                       | 3.48 | 4.94                       | 3.46 | 5.08                       | 3.44 | 5.38                       | 3.37 | 5.62                       | 3.27 |
| 37                                 | 4.00                       | 3.04 | 4.42                       | 3.23 | 4.73                       | 3.43 | 4.87                       | 3.41 | 5.01                       | 3.39 | 5.31                       | 3.33 | 5.55                       | 3.23 |
| 38                                 | 3.95                       | 3.00 | 4.36                       | 3.19 | 4.67                       | 3.39 | 4.81                       | 3.37 | 4.94                       | 3.35 | 5.24                       | 3.28 | 5.48                       | 3.19 |
| 39                                 | 3.90                       | 2.96 | 4.30                       | 3.15 | 4.61                       | 3.34 | 4.74                       | 3.32 | 4.88                       | 3.30 | 5.17                       | 3.24 | 5.40                       | 3.14 |
| 40                                 | 3.84                       | 2.92 | 4.24                       | 3.10 | 4.55                       | 3.30 | 4.68                       | 3.28 | 4.81                       | 3.26 | 5.10                       | 3.20 | 5.33                       | 3.10 |
| 41                                 | 3.79                       | 2.88 | 4.19                       | 3.06 | 4.48                       | 3.25 | 4.62                       | 3.23 | 4.75                       | 3.22 | 5.03                       | 3.15 | 5.26                       | 3.06 |
| 42                                 | 3.74                       | 2.84 | 4.13                       | 3.02 | 4.42                       | 3.20 | 4.55                       | 3.19 | 4.68                       | 3.17 | 4.96                       | 3.11 | 5.18                       | 3.02 |
| 43                                 | 3.66                       | 2.79 | 4.05                       | 2.96 | 4.33                       | 3.14 | 4.46                       | 3.12 | 4.59                       | 3.11 | 4.86                       | 3.05 | 5.08                       | 2.96 |
| 44                                 | 3.56                       | 2.71 | 3.94                       | 2.88 | 4.22                       | 3.06 | 4.34                       | 3.04 | 4.46                       | 3.02 | 4.73                       | 2.96 | 4.94                       | 2.88 |
| 45                                 | 3.23                       | 2.46 | 3.56                       | 2.61 | 3.82                       | 2.77 | 3.93                       | 2.75 | 4.04                       | 2.74 | 4.28                       | 2.68 | 4.48                       | 2.61 |
| 46                                 | 3.14                       | 2.39 | 3.47                       | 2.54 | 3.71                       | 2.69 | 3.82                       | 2.68 | 3.93                       | 2.66 | 4.17                       | 2.61 | 4.36                       | 2.54 |

**Product models : RAS-24E2KVG-E / RAS-24E2AVG-E**

Specification of product at standard condition

|                    |         |                       |                              |      |    |
|--------------------|---------|-----------------------|------------------------------|------|----|
| Standard Condition | Indoor  | 27°C (DB) / 19°C (WB) | Total Cooling Capacity (TC)  | 6.50 | kW |
|                    | Outdoor | 35°C (DB) / 24°C (WB) | Sensible Heat Capacity (SHC) | 4.30 | kW |

| Outdoor air<br>temperature<br><br>DB (°C) | Indoor air temperature     |             |                            |             |                            |             |                            |             |                            |             |                            |             |                            |             |
|-------------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
|                                           | 20.0°C (DB)<br>14.0°C (WB) |             | 23.0°C (DB)<br>16.0°C (WB) |             | 26.0°C (DB)<br>18.0°C (WB) |             | 27.0°C (DB)<br>19.0°C (WB) |             | 28.0°C (DB)<br>20.0°C (WB) |             | 30.0°C (DB)<br>22.0°C (WB) |             | 32.0°C (DB)<br>24.0°C (WB) |             |
|                                           | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         | TC                         | SHC         |
| 20                                        | 6.37                       | 4.60        | 7.03                       | 4.87        | 7.53                       | 5.17        | 7.75                       | 5.13        | 7.97                       | 5.09        | 8.44                       | 4.97        | 8.83                       | 4.80        |
| 21                                        | 6.30                       | 4.55        | 6.96                       | 4.82        | 7.45                       | 5.11        | 7.67                       | 5.07        | 7.89                       | 5.04        | 8.35                       | 4.92        | 8.74                       | 4.75        |
| 22                                        | 6.23                       | 4.50        | 6.88                       | 4.76        | 7.37                       | 5.06        | 7.58                       | 5.02        | 7.80                       | 4.98        | 8.26                       | 4.86        | 8.64                       | 4.70        |
| 23                                        | 6.16                       | 4.45        | 6.80                       | 4.71        | 7.29                       | 5.00        | 7.50                       | 4.96        | 7.72                       | 4.93        | 8.17                       | 4.81        | 8.55                       | 4.64        |
| 24                                        | 6.09                       | 4.40        | 6.73                       | 4.66        | 7.21                       | 4.95        | 7.42                       | 4.91        | 7.63                       | 4.87        | 8.08                       | 4.76        | 8.45                       | 4.59        |
| 25                                        | 6.02                       | 4.35        | 6.65                       | 4.61        | 7.12                       | 4.89        | 7.33                       | 4.85        | 7.54                       | 4.82        | 7.99                       | 4.70        | 8.36                       | 4.54        |
| 26                                        | 5.96                       | 4.30        | 6.58                       | 4.55        | 7.04                       | 4.84        | 7.25                       | 4.80        | 7.46                       | 4.76        | 7.90                       | 4.65        | 8.26                       | 4.49        |
| 27                                        | 5.89                       | 4.25        | 6.50                       | 4.50        | 6.96                       | 4.78        | 7.17                       | 4.74        | 7.37                       | 4.71        | 7.81                       | 4.60        | 8.17                       | 4.44        |
| 28                                        | 5.82                       | 4.20        | 6.43                       | 4.45        | 6.88                       | 4.72        | 7.08                       | 4.69        | 7.29                       | 4.65        | 7.72                       | 4.54        | 8.07                       | 4.39        |
| 29                                        | 5.75                       | 4.15        | 6.35                       | 4.40        | 6.80                       | 4.67        | 7.00                       | 4.63        | 7.20                       | 4.60        | 7.63                       | 4.49        | 7.98                       | 4.33        |
| 30                                        | 5.68                       | 4.10        | 6.27                       | 4.35        | 6.72                       | 4.61        | 6.92                       | 4.58        | 7.11                       | 4.55        | 7.53                       | 4.44        | 7.88                       | 4.28        |
| 31                                        | 5.61                       | 4.05        | 6.20                       | 4.29        | 6.64                       | 4.56        | 6.83                       | 4.52        | 7.03                       | 4.49        | 7.44                       | 4.38        | 7.79                       | 4.23        |
| 32                                        | 5.54                       | 4.01        | 6.12                       | 4.24        | 6.56                       | 4.50        | 6.75                       | 4.47        | 6.94                       | 4.44        | 7.35                       | 4.33        | 7.69                       | 4.18        |
| 33                                        | 5.48                       | 3.96        | 6.05                       | 4.19        | 6.48                       | 4.45        | 6.67                       | 4.41        | 6.86                       | 4.38        | 7.26                       | 4.28        | 7.60                       | 4.13        |
| 34                                        | 5.41                       | 3.91        | 5.97                       | 4.14        | 6.40                       | 4.39        | 6.58                       | 4.36        | 6.77                       | 4.33        | 7.17                       | 4.22        | 7.50                       | 4.08        |
| <b>35</b>                                 | <b>5.34</b>                | <b>3.86</b> | <b>5.90</b>                | <b>4.08</b> | <b>6.31</b>                | <b>4.33</b> | <b>6.50</b>                | <b>4.30</b> | <b>6.69</b>                | <b>4.27</b> | <b>7.08</b>                | <b>4.17</b> | <b>7.41</b>                | <b>4.02</b> |
| 36                                        | 5.27                       | 3.81        | 5.82                       | 4.03        | 6.23                       | 4.28        | 6.42                       | 4.24        | 6.60                       | 4.22        | 6.99                       | 4.12        | 7.31                       | 3.97        |
| 37                                        | 5.20                       | 3.76        | 5.74                       | 3.98        | 6.15                       | 4.22        | 6.33                       | 4.19        | 6.51                       | 4.16        | 6.90                       | 4.06        | 7.22                       | 3.92        |
| 38                                        | 5.13                       | 3.71        | 5.67                       | 3.93        | 6.07                       | 4.17        | 6.25                       | 4.13        | 6.43                       | 4.11        | 6.81                       | 4.01        | 7.12                       | 3.87        |
| 39                                        | 5.07                       | 3.66        | 5.59                       | 3.87        | 5.99                       | 4.11        | 6.17                       | 4.08        | 6.34                       | 4.05        | 6.72                       | 3.95        | 7.03                       | 3.82        |
| 40                                        | 4.11                       | 2.97        | 4.54                       | 3.15        | 4.87                       | 3.34        | 5.01                       | 3.31        | 5.15                       | 3.29        | 5.46                       | 3.21        | 5.71                       | 3.10        |
| 41                                        | 4.00                       | 2.89        | 4.42                       | 3.06        | 4.74                       | 3.25        | 4.88                       | 3.23        | 5.01                       | 3.20        | 5.31                       | 3.13        | 5.55                       | 3.02        |
| 42                                        | 3.90                       | 2.82        | 4.30                       | 2.98        | 4.61                       | 3.16        | 4.74                       | 3.14        | 4.88                       | 3.12        | 5.17                       | 3.04        | 5.41                       | 2.94        |
| 43                                        | 3.79                       | 2.74        | 4.19                       | 2.90        | 4.49                       | 3.08        | 4.62                       | 3.05        | 4.75                       | 3.03        | 5.03                       | 2.96        | 5.26                       | 2.86        |
| 44                                        | 3.69                       | 2.67        | 4.08                       | 2.82        | 4.37                       | 3.00        | 4.49                       | 2.97        | 4.62                       | 2.95        | 4.90                       | 2.88        | 5.12                       | 2.78        |
| 45                                        | 3.43                       | 2.48        | 3.79                       | 2.62        | 4.06                       | 2.79        | 4.18                       | 2.76        | 4.30                       | 2.74        | 4.55                       | 2.68        | 4.76                       | 2.59        |
| 46                                        | 3.34                       | 2.41        | 3.69                       | 2.55        | 3.95                       | 2.71        | 4.06                       | 2.69        | 4.18                       | 2.67        | 4.43                       | 2.61        | 4.63                       | 2.52        |

9. Part Load Performance

Indoor : RAS-B05E2KVG-E  
Outdoor : RAS-05E2AVG-E

| Operation range | Cooling |     | Heating |     |
|-----------------|---------|-----|---------|-----|
|                 | Q       | P   | Q       | P   |
| MINIMUM         | W 750   | 200 | 800     | 160 |
| RATING          | W 1500  | 360 | 2000    | 470 |
| MAXIMUM         | W 2000  | 570 | 3000    | 850 |

| Cooling                        |                |     |      |     |      |     |      |     |      |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------|----------------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Outdoor Temperature<br>DB (°C) | Parts Load (%) |     |      |     |      |     |      |     |      |     |     |     |     |     |     |     |     |     |     |     |
|                                | 100            |     | 90   |     | 80   |     | 70   |     | 60   |     | 50  |     | 40  |     | 30  |     | 20  |     | 10  |     |
|                                | Q              | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q   | P   | Q   | P   | Q   | P   | Q   | P   | Q   | P   |
| 20                             | 1789           | 283 | 1610 | 273 | 1431 | 248 | 1252 | 223 | 1073 | 198 | 894 | 173 | 894 | 157 | 894 | 157 | 894 | 157 | 894 | 157 |
| 21                             | 1770           | 288 | 1593 | 278 | 1416 | 253 | 1239 | 227 | 1062 | 201 | 885 | 176 | 885 | 160 | 885 | 160 | 885 | 160 | 885 | 160 |
| 22                             | 1750           | 293 | 1575 | 283 | 1400 | 257 | 1225 | 231 | 1050 | 205 | 875 | 179 | 875 | 163 | 875 | 163 | 875 | 163 | 875 | 163 |
| 23                             | 1731           | 298 | 1558 | 288 | 1385 | 262 | 1212 | 235 | 1039 | 209 | 866 | 182 | 866 | 166 | 866 | 166 | 866 | 166 | 866 | 166 |
| 24                             | 1712           | 303 | 1541 | 293 | 1369 | 266 | 1198 | 239 | 1027 | 212 | 856 | 185 | 856 | 168 | 856 | 168 | 856 | 168 | 856 | 168 |
| 25                             | 1693           | 308 | 1523 | 298 | 1354 | 271 | 1185 | 243 | 1016 | 216 | 846 | 188 | 846 | 171 | 846 | 171 | 846 | 171 | 846 | 171 |
| 26                             | 1673           | 314 | 1506 | 303 | 1339 | 275 | 1171 | 247 | 1004 | 219 | 837 | 192 | 837 | 174 | 837 | 174 | 837 | 174 | 837 | 174 |
| 27                             | 1654           | 319 | 1489 | 308 | 1323 | 280 | 1158 | 251 | 992  | 223 | 827 | 195 | 827 | 177 | 827 | 177 | 827 | 177 | 827 | 177 |
| 28                             | 1635           | 324 | 1471 | 313 | 1308 | 284 | 1144 | 255 | 981  | 227 | 817 | 198 | 817 | 180 | 817 | 180 | 817 | 180 | 817 | 180 |
| 29                             | 1616           | 329 | 1454 | 318 | 1292 | 289 | 1131 | 260 | 969  | 230 | 808 | 201 | 808 | 183 | 808 | 183 | 808 | 183 | 808 | 183 |
| 30                             | 1596           | 334 | 1437 | 323 | 1277 | 293 | 1117 | 264 | 958  | 234 | 798 | 204 | 798 | 186 | 798 | 186 | 798 | 186 | 798 | 186 |
| 31                             | 1577           | 339 | 1419 | 328 | 1262 | 298 | 1104 | 268 | 946  | 238 | 789 | 207 | 789 | 189 | 789 | 189 | 789 | 189 | 789 | 189 |
| 32                             | 1558           | 345 | 1402 | 333 | 1246 | 302 | 1090 | 272 | 935  | 241 | 779 | 211 | 779 | 191 | 779 | 191 | 779 | 191 | 779 | 191 |
| 33                             | 1539           | 350 | 1385 | 338 | 1231 | 307 | 1077 | 276 | 923  | 245 | 769 | 214 | 769 | 194 | 769 | 194 | 769 | 194 | 769 | 194 |
| 34                             | 1519           | 355 | 1367 | 343 | 1215 | 311 | 1063 | 280 | 912  | 248 | 760 | 217 | 760 | 197 | 760 | 197 | 760 | 197 | 760 | 197 |
| 35                             | 1500           | 360 | 1350 | 348 | 1200 | 316 | 1050 | 284 | 900  | 252 | 750 | 220 | 750 | 200 | 750 | 200 | 750 | 200 | 750 | 200 |
| 36                             | 1481           | 365 | 1333 | 353 | 1185 | 321 | 1037 | 288 | 888  | 256 | 740 | 223 | 740 | 203 | 740 | 203 | 740 | 203 | 740 | 203 |
| 37                             | 1462           | 370 | 1315 | 358 | 1169 | 325 | 1023 | 292 | 877  | 259 | 731 | 226 | 731 | 206 | 731 | 206 | 731 | 206 | 731 | 206 |
| 38                             | 1442           | 375 | 1298 | 363 | 1154 | 330 | 1010 | 296 | 865  | 263 | 721 | 229 | 721 | 209 | 721 | 209 | 721 | 209 | 721 | 209 |
| 39                             | 1423           | 381 | 1281 | 368 | 1138 | 334 | 996  | 300 | 854  | 266 | 712 | 233 | 712 | 211 | 712 | 211 | 712 | 211 | 712 | 211 |
| 40                             | 1404           | 386 | 1263 | 373 | 1123 | 339 | 983  | 304 | 842  | 270 | 702 | 236 | 702 | 214 | 702 | 214 | 702 | 214 | 702 | 214 |
| 41                             | 1385           | 391 | 1246 | 378 | 1108 | 343 | 969  | 308 | 831  | 274 | 692 | 239 | 692 | 217 | 692 | 217 | 692 | 217 | 692 | 217 |
| 42                             | 1365           | 396 | 1229 | 383 | 1092 | 348 | 956  | 312 | 819  | 277 | 683 | 242 | 683 | 220 | 683 | 220 | 683 | 220 | 683 | 220 |
| 43                             | 1346           | 401 | 1211 | 388 | 1077 | 352 | 942  | 317 | 808  | 281 | 673 | 245 | 673 | 223 | 673 | 223 | 673 | 223 | 673 | 223 |
| 44                             | 1327           | 406 | 1194 | 393 | 1061 | 357 | 929  | 321 | 796  | 284 | 663 | 248 | 663 | 226 | 663 | 226 | 663 | 226 | 663 | 226 |
| 45                             | 1308           | 412 | 1177 | 398 | 1046 | 361 | 915  | 325 | 785  | 288 | 654 | 252 | 654 | 229 | 654 | 229 | 654 | 229 | 654 | 229 |
| 46                             | 1288           | 417 | 1159 | 403 | 1031 | 366 | 902  | 329 | 773  | 292 | 644 | 255 | 644 | 232 | 644 | 232 | 644 | 232 | 644 | 232 |

| Heating                           |                |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|                                   | 100            |     | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                               | 938            | 364 | 844  | 330 | 750  | 290 | 656  | 250 | 563  | 210 | 469  | 170 | 375  | 124 | 375  | 124 | 375  | 124 | 375  | 124 |
| -14                               | 972            | 369 | 875  | 335 | 777  | 295 | 680  | 254 | 583  | 213 | 486  | 173 | 389  | 126 | 389  | 126 | 389  | 126 | 389  | 126 |
| -13                               | 1006           | 374 | 905  | 340 | 805  | 299 | 704  | 258 | 604  | 216 | 503  | 175 | 402  | 127 | 402  | 127 | 402  | 127 | 402  | 127 |
| -12                               | 1040           | 380 | 936  | 345 | 832  | 303 | 728  | 261 | 624  | 219 | 520  | 178 | 416  | 129 | 416  | 129 | 416  | 129 | 416  | 129 |
| -11                               | 1074           | 385 | 967  | 349 | 859  | 307 | 752  | 265 | 645  | 222 | 537  | 180 | 430  | 131 | 430  | 131 | 430  | 131 | 430  | 131 |
| -10                               | 1108           | 390 | 997  | 354 | 887  | 311 | 776  | 268 | 665  | 225 | 554  | 183 | 443  | 133 | 443  | 133 | 443  | 133 | 443  | 133 |
| -9                                | 1137           | 392 | 1023 | 356 | 909  | 313 | 796  | 270 | 682  | 227 | 568  | 184 | 455  | 133 | 455  | 133 | 455  | 133 | 455  | 133 |
| -8                                | 1165           | 394 | 1049 | 358 | 932  | 315 | 816  | 271 | 699  | 228 | 583  | 185 | 466  | 134 | 466  | 134 | 466  | 134 | 466  | 134 |
| -7                                | 1194           | 396 | 1074 | 360 | 955  | 316 | 835  | 273 | 716  | 229 | 597  | 186 | 477  | 135 | 477  | 135 | 477  | 135 | 477  | 135 |
| -6                                | 1222           | 399 | 1100 | 362 | 978  | 318 | 855  | 274 | 733  | 230 | 611  | 187 | 489  | 136 | 489  | 136 | 489  | 136 | 489  | 136 |
| -5                                | 1250           | 401 | 1125 | 364 | 1000 | 320 | 875  | 276 | 750  | 232 | 625  | 188 | 500  | 136 | 500  | 136 | 500  | 136 | 500  | 136 |
| -4                                | 1279           | 403 | 1151 | 366 | 1023 | 321 | 895  | 277 | 767  | 233 | 639  | 189 | 512  | 137 | 512  | 137 | 512  | 137 | 512  | 137 |
| -3                                | 1307           | 405 | 1176 | 368 | 1046 | 323 | 915  | 279 | 784  | 234 | 654  | 190 | 523  | 138 | 523  | 138 | 523  | 138 | 523  | 138 |
| -2                                | 1336           | 407 | 1202 | 370 | 1068 | 325 | 935  | 280 | 801  | 235 | 668  | 191 | 534  | 139 | 534  | 139 | 534  | 139 | 534  | 139 |
| -1                                | 1364           | 409 | 1228 | 372 | 1091 | 327 | 955  | 282 | 818  | 237 | 682  | 192 | 546  | 139 | 546  | 139 | 546  | 139 | 546  | 139 |
| 0                                 | 1392           | 412 | 1253 | 374 | 1114 | 328 | 975  | 283 | 835  | 238 | 696  | 193 | 557  | 140 | 557  | 140 | 557  | 140 | 557  | 140 |
| 1                                 | 1421           | 414 | 1279 | 376 | 1137 | 330 | 995  | 285 | 853  | 239 | 710  | 194 | 568  | 141 | 568  | 141 | 568  | 141 | 568  | 141 |
| 2                                 | 1449           | 416 | 1304 | 378 | 1159 | 332 | 1014 | 286 | 870  | 240 | 725  | 195 | 580  | 142 | 580  | 142 | 580  | 142 | 580  | 142 |
| 3                                 | 1473           | 422 | 1326 | 383 | 1178 | 336 | 1031 | 290 | 884  | 244 | 737  | 197 | 589  | 143 | 589  | 143 | 589  | 143 | 589  | 143 |
| 4                                 | 1497           | 427 | 1347 | 388 | 1197 | 341 | 1048 | 294 | 898  | 247 | 748  | 200 | 599  | 145 | 599  | 145 | 599  | 145 | 599  | 145 |
| 5                                 | 1520           | 433 | 1368 | 393 | 1216 | 345 | 1064 | 298 | 912  | 250 | 760  | 203 | 608  | 147 | 608  | 147 | 608  | 147 | 608  | 147 |
| 6                                 | 1948           | 463 | 1754 | 420 | 1559 | 369 | 1364 | 318 | 1169 | 267 | 974  | 217 | 779  | 158 | 779  | 158 | 779  | 158 | 779  | 158 |
| 7                                 | 2000           | 470 | 1800 | 427 | 1600 | 375 | 1400 | 323 | 1200 | 272 | 1000 | 220 | 800  | 160 | 800  | 160 | 800  | 160 | 800  | 160 |
| 8                                 | 2052           | 477 | 1846 | 433 | 1641 | 381 | 1436 | 328 | 1231 | 276 | 1026 | 223 | 821  | 162 | 821  | 162 | 821  | 162 | 821  | 162 |
| 9                                 | 2103           | 485 | 1893 | 440 | 1683 | 387 | 1472 | 333 | 1262 | 280 | 1052 | 227 | 841  | 165 | 841  | 165 | 841  | 165 | 841  | 165 |
| 10                                | 2155           | 492 | 1939 | 446 | 1724 | 392 | 1508 | 338 | 1293 | 284 | 1077 | 230 | 862  | 167 | 862  | 167 | 862  | 167 | 862  | 167 |
| 11                                | 2206           | 499 | 1986 | 453 | 1765 | 398 | 1545 | 343 | 1324 | 288 | 1103 | 234 | 883  | 170 | 883  | 170 | 883  | 170 | 883  | 170 |
| 12                                | 2258           | 506 | 2032 | 460 | 1806 | 404 | 1581 | 348 | 1355 | 293 | 1129 | 237 | 903  | 172 | 903  | 172 | 903  | 172 | 903  | 172 |
| 13                                | 2310           | 514 | 2079 | 466 | 1848 | 410 | 1617 | 353 | 1386 | 297 | 1155 | 240 | 924  | 175 | 924  | 175 | 924  | 175 | 924  | 175 |
| 14                                | 2361           | 521 | 2125 | 473 | 1889 | 416 | 1653 | 358 | 1417 | 301 | 1181 | 244 | 945  | 177 | 945  | 177 | 945  | 177 | 945  | 177 |
| 15                                | 2413           | 528 | 2172 | 480 | 1930 | 421 | 1689 | 363 | 1448 | 305 | 1206 | 247 | 965  | 180 | 965  | 180 | 965  | 180 | 965  | 180 |
| 16                                | 2465           | 535 | 2218 | 486 | 1972 | 427 | 1725 | 368 | 1479 | 310 | 1232 | 251 | 986  | 182 | 986  | 182 | 986  | 182 | 986  | 182 |
| 17                                | 2516           | 543 | 2265 | 493 | 2013 | 433 | 1761 | 373 | 1510 | 314 | 1258 | 254 | 1006 | 185 | 1006 | 185 | 1006 | 185 | 1006 | 185 |
| 18                                | 2568           | 550 | 2311 | 499 | 2054 | 439 | 1797 | 378 | 1541 | 318 | 1284 | 257 | 1027 | 187 | 1027 | 187 | 1027 | 187 | 1027 | 187 |
| 19                                | 2619           | 557 | 2357 | 506 | 2095 | 445 | 1834 | 383 | 1572 | 322 | 1310 | 261 | 1048 | 190 | 1048 | 190 | 1048 | 190 | 1048 | 190 |
| 20                                | 2671           | 565 | 2404 | 513 | 2137 | 450 | 1870 | 388 | 1603 | 326 | 1335 | 264 | 1068 | 192 | 1068 | 192 | 1068 | 192 | 1068 | 192 |
| 21                                | 2723           | 572 | 2450 | 519 | 2178 | 456 | 1906 | 393 | 1634 | 331 | 1361 | 268 | 1089 | 195 | 1089 | 195 | 1089 | 195 | 1089 | 195 |
| 22                                | 2774           | 579 | 2497 | 526 | 2219 | 462 | 1942 | 398 | 1665 | 335 | 1387 | 271 | 1110 | 197 | 1110 | 197 | 1110 | 197 | 1110 | 197 |
| 23                                | 2826           | 586 | 2543 | 532 | 2261 | 468 | 1978 | 403 | 1695 | 339 | 1413 | 275 | 1130 | 200 | 1130 | 200 | 1130 | 200 | 1130 | 200 |
| 24                                | 2877           | 594 | 2590 | 539 | 2302 | 474 | 2014 | 408 | 1726 | 343 | 1439 | 278 | 1151 | 202 | 1151 | 202 | 1151 | 202 | 1151 | 202 |



Indoor : RAS-B07E2KVG-E  
Outdoor : RAS-07E2AVG-E

| Operation range |   | Cooling |     | Heating |     |
|-----------------|---|---------|-----|---------|-----|
|                 |   | Q       | P   | Q       | P   |
| MINIMUM         | W | 760     | 200 | 820     | 160 |
| RATING          | W | 2000    | 530 | 2500    | 640 |
| MAXIMUM         | W | 2600    | 830 | 3300    | 940 |

Cooling

| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |     |      |     |      |     |      |     |      |     |      |     |     |     |     |     |     |     |     |     |
|-----------------------------------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                   | 100            |     | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40  |     | 30  |     | 20  |     | 10  |     |
|                                   | Q              | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q   | P   | Q   | P   | Q   | P   | Q   | P   |
| 20                                | 2385           | 416 | 2147 | 387 | 1908 | 345 | 1670 | 303 | 1431 | 262 | 1193 | 220 | 954 | 167 | 906 | 157 | 906 | 157 | 906 | 157 |
| 21                                | 2359           | 424 | 2123 | 394 | 1887 | 351 | 1652 | 309 | 1416 | 266 | 1180 | 224 | 944 | 171 | 897 | 160 | 897 | 160 | 897 | 160 |
| 22                                | 2334           | 431 | 2100 | 401 | 1867 | 358 | 1634 | 314 | 1400 | 271 | 1167 | 228 | 933 | 174 | 887 | 163 | 887 | 163 | 887 | 163 |
| 23                                | 2308           | 439 | 2077 | 408 | 1846 | 364 | 1616 | 320 | 1385 | 276 | 1154 | 232 | 923 | 177 | 877 | 166 | 877 | 166 | 877 | 166 |
| 24                                | 2282           | 446 | 2054 | 415 | 1826 | 370 | 1598 | 326 | 1369 | 281 | 1141 | 236 | 913 | 180 | 867 | 168 | 867 | 168 | 867 | 168 |
| 25                                | 2257           | 454 | 2031 | 422 | 1805 | 377 | 1580 | 331 | 1354 | 285 | 1128 | 240 | 903 | 183 | 858 | 171 | 858 | 171 | 858 | 171 |
| 26                                | 2231           | 462 | 2008 | 429 | 1785 | 383 | 1562 | 337 | 1339 | 290 | 1116 | 244 | 892 | 186 | 848 | 174 | 848 | 174 | 848 | 174 |
| 27                                | 2205           | 469 | 1985 | 436 | 1764 | 389 | 1544 | 342 | 1323 | 295 | 1103 | 248 | 882 | 189 | 838 | 177 | 838 | 177 | 838 | 177 |
| 28                                | 2180           | 477 | 1962 | 443 | 1744 | 396 | 1526 | 348 | 1308 | 300 | 1090 | 252 | 872 | 192 | 828 | 180 | 828 | 180 | 828 | 180 |
| 29                                | 2154           | 484 | 1939 | 451 | 1723 | 402 | 1508 | 353 | 1292 | 305 | 1077 | 256 | 862 | 195 | 819 | 183 | 819 | 183 | 819 | 183 |
| 30                                | 2128           | 492 | 1916 | 458 | 1703 | 408 | 1490 | 359 | 1277 | 309 | 1064 | 260 | 851 | 198 | 809 | 186 | 809 | 186 | 809 | 186 |
| 31                                | 2103           | 500 | 1892 | 465 | 1682 | 414 | 1472 | 364 | 1262 | 314 | 1051 | 264 | 841 | 201 | 799 | 189 | 799 | 189 | 799 | 189 |
| 32                                | 2077           | 507 | 1869 | 472 | 1662 | 421 | 1454 | 370 | 1246 | 319 | 1039 | 268 | 831 | 204 | 789 | 191 | 789 | 191 | 789 | 191 |
| 33                                | 2051           | 515 | 1846 | 479 | 1641 | 427 | 1436 | 375 | 1231 | 324 | 1026 | 272 | 821 | 207 | 780 | 194 | 780 | 194 | 780 | 194 |
| 34                                | 2026           | 522 | 1823 | 486 | 1621 | 433 | 1418 | 381 | 1215 | 328 | 1013 | 276 | 810 | 210 | 770 | 197 | 770 | 197 | 770 | 197 |
| 35                                | 2000           | 530 | 1800 | 493 | 1600 | 440 | 1400 | 386 | 1200 | 333 | 1000 | 280 | 800 | 213 | 760 | 200 | 760 | 200 | 760 | 200 |
| 36                                | 1974           | 538 | 1777 | 500 | 1579 | 446 | 1382 | 392 | 1185 | 338 | 987  | 284 | 790 | 216 | 750 | 203 | 750 | 203 | 750 | 203 |
| 37                                | 1949           | 545 | 1754 | 507 | 1559 | 452 | 1364 | 398 | 1169 | 343 | 974  | 288 | 779 | 219 | 740 | 206 | 740 | 206 | 740 | 206 |
| 38                                | 1923           | 553 | 1731 | 514 | 1538 | 459 | 1346 | 403 | 1154 | 348 | 962  | 292 | 769 | 223 | 731 | 209 | 731 | 209 | 731 | 209 |
| 39                                | 1897           | 560 | 1708 | 521 | 1518 | 465 | 1328 | 409 | 1138 | 352 | 949  | 296 | 759 | 226 | 721 | 211 | 721 | 211 | 721 | 211 |
| 40                                | 1872           | 568 | 1685 | 528 | 1497 | 471 | 1310 | 414 | 1123 | 357 | 936  | 300 | 749 | 229 | 711 | 214 | 711 | 214 | 711 | 214 |
| 41                                | 1846           | 576 | 1661 | 535 | 1477 | 477 | 1292 | 420 | 1108 | 362 | 923  | 304 | 738 | 232 | 701 | 217 | 701 | 217 | 701 | 217 |
| 42                                | 1820           | 583 | 1638 | 542 | 1456 | 484 | 1274 | 425 | 1092 | 367 | 910  | 308 | 728 | 235 | 692 | 220 | 692 | 220 | 692 | 220 |
| 43                                | 1795           | 591 | 1615 | 549 | 1436 | 490 | 1256 | 431 | 1077 | 371 | 897  | 312 | 718 | 238 | 682 | 223 | 682 | 223 | 682 | 223 |
| 44                                | 1769           | 598 | 1592 | 556 | 1415 | 496 | 1238 | 436 | 1061 | 376 | 885  | 316 | 708 | 241 | 672 | 226 | 672 | 226 | 672 | 226 |
| 45                                | 1743           | 606 | 1569 | 564 | 1395 | 503 | 1220 | 442 | 1046 | 381 | 872  | 320 | 697 | 244 | 662 | 229 | 662 | 229 | 662 | 229 |
| 46                                | 1718           | 614 | 1546 | 571 | 1374 | 509 | 1202 | 447 | 1031 | 386 | 859  | 324 | 687 | 247 | 653 | 232 | 653 | 232 | 653 | 232 |

Heating

| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
|                                   | 100            |     | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                               | 1240           | 433 | 1116 | 342 | 992  | 294 | 868  | 246 | 744  | 197 | 620  | 149 | 496  | 125 | 407  | 108 | 407  | 108 | 407  | 108 |
| -14                               | 1297           | 446 | 1167 | 353 | 1037 | 303 | 908  | 253 | 778  | 203 | 648  | 153 | 519  | 129 | 425  | 112 | 425  | 112 | 425  | 112 |
| -13                               | 1354           | 460 | 1219 | 363 | 1083 | 312 | 948  | 261 | 812  | 209 | 677  | 158 | 542  | 133 | 444  | 115 | 444  | 115 | 444  | 115 |
| -12                               | 1411           | 473 | 1270 | 374 | 1129 | 321 | 988  | 268 | 847  | 215 | 706  | 163 | 564  | 137 | 463  | 118 | 463  | 118 | 463  | 118 |
| -11                               | 1468           | 486 | 1322 | 384 | 1175 | 330 | 1028 | 276 | 881  | 221 | 734  | 167 | 587  | 141 | 482  | 122 | 482  | 122 | 482  | 122 |
| -10                               | 1526           | 500 | 1373 | 395 | 1220 | 339 | 1068 | 283 | 915  | 228 | 763  | 172 | 610  | 145 | 500  | 125 | 500  | 125 | 500  | 125 |
| -9                                | 1549           | 505 | 1394 | 399 | 1240 | 343 | 1085 | 286 | 930  | 230 | 775  | 174 | 620  | 146 | 508  | 126 | 508  | 126 | 508  | 126 |
| -8                                | 1573           | 511 | 1416 | 404 | 1259 | 347 | 1101 | 290 | 944  | 233 | 787  | 176 | 629  | 148 | 516  | 128 | 516  | 128 | 516  | 128 |
| -7                                | 1597           | 516 | 1437 | 408 | 1278 | 350 | 1118 | 293 | 958  | 235 | 799  | 178 | 639  | 149 | 524  | 129 | 524  | 129 | 524  | 129 |
| -6                                | 1621           | 522 | 1459 | 412 | 1297 | 354 | 1135 | 296 | 973  | 238 | 810  | 179 | 648  | 151 | 532  | 130 | 532  | 130 | 532  | 130 |
| -5                                | 1645           | 528 | 1480 | 417 | 1316 | 358 | 1151 | 299 | 987  | 240 | 822  | 181 | 658  | 153 | 539  | 132 | 539  | 132 | 539  | 132 |
| -4                                | 1669           | 533 | 1502 | 421 | 1335 | 362 | 1168 | 302 | 1001 | 243 | 834  | 183 | 667  | 154 | 547  | 133 | 547  | 133 | 547  | 133 |
| -3                                | 1692           | 539 | 1523 | 426 | 1354 | 365 | 1185 | 305 | 1015 | 245 | 846  | 185 | 677  | 156 | 555  | 135 | 555  | 135 | 555  | 135 |
| -2                                | 1716           | 544 | 1545 | 430 | 1373 | 369 | 1201 | 309 | 1030 | 248 | 858  | 187 | 686  | 157 | 563  | 136 | 563  | 136 | 563  | 136 |
| -1                                | 1740           | 550 | 1566 | 434 | 1392 | 373 | 1218 | 312 | 1044 | 250 | 870  | 189 | 696  | 159 | 571  | 137 | 571  | 137 | 571  | 137 |
| 0                                 | 1764           | 555 | 1588 | 439 | 1411 | 377 | 1235 | 315 | 1058 | 253 | 882  | 191 | 706  | 161 | 579  | 139 | 579  | 139 | 579  | 139 |
| 1                                 | 1788           | 561 | 1609 | 443 | 1430 | 381 | 1251 | 318 | 1073 | 255 | 894  | 193 | 715  | 162 | 586  | 140 | 586  | 140 | 586  | 140 |
| 2                                 | 1812           | 566 | 1630 | 448 | 1449 | 384 | 1268 | 321 | 1087 | 258 | 906  | 195 | 725  | 164 | 594  | 142 | 594  | 142 | 594  | 142 |
| 3                                 | 1841           | 574 | 1657 | 454 | 1473 | 389 | 1289 | 325 | 1105 | 261 | 921  | 197 | 737  | 166 | 604  | 143 | 604  | 143 | 604  | 143 |
| 4                                 | 1871           | 582 | 1684 | 460 | 1497 | 395 | 1310 | 330 | 1123 | 265 | 935  | 200 | 748  | 168 | 614  | 145 | 614  | 145 | 614  | 145 |
| 5                                 | 1901           | 589 | 1711 | 466 | 1520 | 400 | 1330 | 334 | 1140 | 268 | 950  | 203 | 760  | 170 | 623  | 147 | 623  | 147 | 623  | 147 |
| 6                                 | 2435           | 630 | 2192 | 498 | 1948 | 428 | 1705 | 357 | 1461 | 287 | 1218 | 217 | 974  | 182 | 799  | 158 | 799  | 158 | 799  | 158 |
| 7                                 | 2500           | 640 | 2250 | 506 | 2000 | 434 | 1750 | 363 | 1500 | 291 | 1250 | 220 | 1000 | 185 | 820  | 160 | 820  | 160 | 820  | 160 |
| 8                                 | 2565           | 650 | 2308 | 514 | 2052 | 441 | 1795 | 368 | 1539 | 296 | 1282 | 223 | 1026 | 188 | 841  | 162 | 841  | 162 | 841  | 162 |
| 9                                 | 2629           | 660 | 2366 | 521 | 2103 | 448 | 1840 | 374 | 1577 | 300 | 1315 | 227 | 1052 | 191 | 862  | 165 | 862  | 165 | 862  | 165 |
| 10                                | 2694           | 670 | 2424 | 529 | 2155 | 454 | 1885 | 380 | 1616 | 305 | 1347 | 230 | 1077 | 194 | 883  | 167 | 883  | 167 | 883  | 167 |
| 11                                | 2758           | 680 | 2482 | 537 | 2206 | 461 | 1931 | 385 | 1655 | 309 | 1379 | 234 | 1103 | 197 | 905  | 170 | 905  | 170 | 905  | 170 |
| 12                                | 2823           | 690 | 2540 | 545 | 2258 | 468 | 1976 | 391 | 1694 | 314 | 1411 | 237 | 1129 | 199 | 926  | 172 | 926  | 172 | 926  | 172 |
| 13                                | 2887           | 699 | 2598 | 553 | 2310 | 475 | 2021 | 397 | 1732 | 319 | 1444 | 240 | 1155 | 202 | 947  | 175 | 947  | 175 | 947  | 175 |
| 14                                | 2952           | 709 | 2656 | 561 | 2361 | 481 | 2066 | 402 | 1771 | 323 | 1476 | 244 | 1181 | 205 | 968  | 177 | 968  | 177 | 968  | 177 |
| 15                                | 3016           | 719 | 2715 | 568 | 2413 | 488 | 2111 | 408 | 1810 | 328 | 1508 | 247 | 1206 | 208 | 989  | 180 | 989  | 180 | 989  | 180 |
| 16                                | 3081           | 729 | 2773 | 576 | 2465 | 495 | 2156 | 413 | 1848 | 332 | 1540 | 251 | 1232 | 211 | 1010 | 182 | 1010 | 182 | 1010 | 182 |
| 17                                | 3145           | 739 | 2831 | 584 | 2516 | 502 | 2202 | 419 | 1887 | 337 | 1573 | 254 | 1258 | 214 | 1032 | 185 | 1032 | 185 | 1032 | 185 |
| 18                                | 3210           | 749 | 2889 | 592 | 2568 | 508 | 2247 | 425 | 1926 | 341 | 1605 | 257 | 1284 | 217 | 1053 | 187 | 1053 | 187 | 1053 | 187 |
| 19                                | 3274           | 759 | 2947 | 600 | 2619 | 515 | 2292 | 430 | 1965 | 346 | 1637 | 261 | 1310 | 220 | 1074 | 190 | 1074 | 190 | 1074 | 190 |
| 20                                | 3339           | 769 | 3005 | 608 | 2671 | 522 | 2337 | 436 | 2003 | 350 | 1669 | 264 | 1335 | 222 | 1095 | 192 | 1095 | 192 | 1095 | 192 |
| 21                                | 3403           | 779 | 3063 | 615 | 2723 | 528 | 2382 | 442 | 2042 | 355 | 1702 | 268 | 1361 | 225 | 1116 | 195 | 1116 | 195 | 1116 | 195 |
| 22                                | 3468           | 789 | 3121 | 623 | 2774 | 535 | 2427 | 447 | 2081 | 359 | 1734 | 271 | 1387 | 228 | 1137 | 197 | 1137 | 197 | 1137 | 197 |
| 23                                | 3532           | 799 | 3179 | 631 | 2826 | 542 | 2473 | 453 | 2119 | 364 | 1766 | 275 | 1413 | 231 | 1159 | 200 | 1159 | 200 | 1159 | 200 |
| 24                                | 3597           | 808 | 3237 | 639 | 2877 | 549 | 2518 | 458 | 2158 | 368 | 1798 | 278 | 1439 | 234 | 1180 | 202 | 1180 | 202 | 1180 | 202 |

Indoor : RAS-B10E2KVG-E  
Outdoor : RAS-10E2AVG-E

| Operation range | Cooling |      | Heating |      |
|-----------------|---------|------|---------|------|
|                 | Q       | P    | Q       | P    |
| MINIMUM         | W 800   | 200  | 950     | 180  |
| RATING          | W 2500  | 700  | 3200    | 860  |
| MAXIMUM         | W 3000  | 1000 | 3900    | 1110 |

Cooling

| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |     |      |     |      |     |      |     |      |     |      |     |      |     |     |     |     |     |     |     |
|-----------------------------------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|
|                                   | 100            |     | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40   |     | 30  |     | 20  |     | 10  |     |
|                                   | Q              | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q   | P   | Q   | P   | Q   | P   |
| 20                                | 2981           | 550 | 2683 | 451 | 2385 | 393 | 2087 | 335 | 1789 | 278 | 1491 | 220 | 1193 | 185 | 954 | 157 | 954 | 157 | 954 | 157 |
| 21                                | 2949           | 560 | 2654 | 459 | 2359 | 400 | 2064 | 341 | 1770 | 283 | 1475 | 224 | 1180 | 188 | 944 | 160 | 944 | 160 | 944 | 160 |
| 22                                | 2917           | 570 | 2625 | 467 | 2334 | 407 | 2042 | 347 | 1750 | 288 | 1459 | 228 | 1167 | 192 | 933 | 163 | 933 | 163 | 933 | 163 |
| 23                                | 2885           | 580 | 2597 | 475 | 2308 | 414 | 2020 | 354 | 1731 | 293 | 1443 | 232 | 1154 | 195 | 923 | 166 | 923 | 166 | 923 | 166 |
| 24                                | 2853           | 590 | 2568 | 484 | 2282 | 422 | 1997 | 360 | 1712 | 298 | 1426 | 236 | 1141 | 198 | 913 | 168 | 913 | 168 | 913 | 168 |
| 25                                | 2821           | 600 | 2539 | 492 | 2257 | 429 | 1975 | 366 | 1693 | 303 | 1410 | 240 | 1128 | 202 | 903 | 171 | 903 | 171 | 903 | 171 |
| 26                                | 2789           | 610 | 2510 | 500 | 2231 | 436 | 1952 | 372 | 1673 | 308 | 1394 | 244 | 1116 | 205 | 892 | 174 | 892 | 174 | 892 | 174 |
| 27                                | 2757           | 620 | 2481 | 508 | 2205 | 443 | 1930 | 378 | 1654 | 313 | 1378 | 248 | 1103 | 209 | 882 | 177 | 882 | 177 | 882 | 177 |
| 28                                | 2725           | 630 | 2452 | 517 | 2180 | 450 | 1907 | 384 | 1635 | 318 | 1362 | 252 | 1090 | 212 | 872 | 180 | 872 | 180 | 872 | 180 |
| 29                                | 2693           | 640 | 2423 | 525 | 2154 | 458 | 1885 | 390 | 1616 | 323 | 1346 | 256 | 1077 | 215 | 862 | 183 | 862 | 183 | 862 | 183 |
| 30                                | 2660           | 650 | 2394 | 533 | 2128 | 465 | 1862 | 396 | 1596 | 328 | 1330 | 260 | 1064 | 219 | 851 | 186 | 851 | 186 | 851 | 186 |
| 31                                | 2628           | 660 | 2366 | 541 | 2103 | 472 | 1840 | 403 | 1577 | 333 | 1314 | 264 | 1051 | 222 | 841 | 189 | 841 | 189 | 841 | 189 |
| 32                                | 2596           | 670 | 2337 | 549 | 2077 | 479 | 1817 | 409 | 1558 | 338 | 1298 | 268 | 1039 | 225 | 831 | 191 | 831 | 191 | 831 | 191 |
| 33                                | 2564           | 680 | 2308 | 558 | 2051 | 486 | 1795 | 415 | 1539 | 343 | 1282 | 272 | 1026 | 229 | 821 | 194 | 821 | 194 | 821 | 194 |
| 34                                | 2532           | 690 | 2279 | 566 | 2026 | 493 | 1772 | 421 | 1519 | 348 | 1266 | 276 | 1013 | 232 | 810 | 197 | 810 | 197 | 810 | 197 |
| 35                                | 2500           | 700 | 2250 | 574 | 2000 | 501 | 1750 | 427 | 1500 | 354 | 1250 | 280 | 1000 | 236 | 800 | 200 | 800 | 200 | 800 | 200 |
| 36                                | 2468           | 710 | 2221 | 582 | 1974 | 508 | 1728 | 433 | 1481 | 359 | 1234 | 284 | 987  | 239 | 790 | 203 | 790 | 203 | 790 | 203 |
| 37                                | 2436           | 720 | 2192 | 591 | 1949 | 515 | 1705 | 439 | 1462 | 364 | 1218 | 288 | 974  | 242 | 779 | 206 | 779 | 206 | 779 | 206 |
| 38                                | 2404           | 730 | 2163 | 599 | 1923 | 522 | 1683 | 445 | 1442 | 369 | 1202 | 292 | 962  | 246 | 769 | 209 | 769 | 209 | 769 | 209 |
| 39                                | 2372           | 740 | 2135 | 607 | 1897 | 529 | 1660 | 452 | 1423 | 374 | 1186 | 296 | 949  | 249 | 759 | 211 | 759 | 211 | 759 | 211 |
| 40                                | 2340           | 750 | 2106 | 615 | 1872 | 536 | 1638 | 458 | 1404 | 379 | 1170 | 300 | 936  | 252 | 749 | 214 | 749 | 214 | 749 | 214 |
| 41                                | 2308           | 760 | 2077 | 623 | 1846 | 544 | 1615 | 464 | 1385 | 384 | 1154 | 304 | 923  | 256 | 738 | 217 | 738 | 217 | 738 | 217 |
| 42                                | 2275           | 770 | 2048 | 632 | 1820 | 551 | 1593 | 470 | 1365 | 389 | 1138 | 308 | 910  | 259 | 728 | 220 | 728 | 220 | 728 | 220 |
| 43                                | 2243           | 780 | 2019 | 640 | 1795 | 558 | 1570 | 476 | 1346 | 394 | 1122 | 312 | 897  | 263 | 718 | 223 | 718 | 223 | 718 | 223 |
| 44                                | 2211           | 790 | 1990 | 648 | 1769 | 565 | 1548 | 482 | 1327 | 399 | 1106 | 316 | 885  | 266 | 708 | 226 | 708 | 226 | 708 | 226 |
| 45                                | 2179           | 800 | 1961 | 656 | 1743 | 572 | 1525 | 488 | 1308 | 404 | 1090 | 320 | 872  | 269 | 697 | 229 | 697 | 229 | 697 | 229 |
| 46                                | 2147           | 810 | 1932 | 665 | 1718 | 580 | 1503 | 494 | 1288 | 409 | 1074 | 324 | 859  | 273 | 687 | 232 | 687 | 232 | 687 | 232 |

Heating

| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
|                                   | 100            |      | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                               | 1577           | 609  | 1419 | 500 | 1261 | 432 | 1104 | 363 | 946  | 295 | 788  | 227 | 631  | 178 | 473  | 129 | 468  | 127 | 468  | 127 |
| -14                               | 1651           | 624  | 1486 | 513 | 1321 | 443 | 1156 | 373 | 991  | 302 | 826  | 232 | 660  | 182 | 495  | 132 | 490  | 131 | 490  | 131 |
| -13                               | 1725           | 639  | 1553 | 525 | 1380 | 454 | 1208 | 382 | 1035 | 310 | 863  | 238 | 690  | 187 | 518  | 135 | 512  | 134 | 512  | 134 |
| -12                               | 1799           | 655  | 1619 | 538 | 1440 | 464 | 1260 | 391 | 1080 | 317 | 900  | 244 | 720  | 191 | 540  | 139 | 534  | 137 | 534  | 137 |
| -11                               | 1874           | 670  | 1686 | 550 | 1499 | 475 | 1312 | 400 | 1124 | 325 | 937  | 249 | 749  | 196 | 562  | 142 | 556  | 140 | 556  | 140 |
| -10                               | 1948           | 685  | 1753 | 563 | 1558 | 486 | 1363 | 409 | 1169 | 332 | 974  | 255 | 779  | 200 | 584  | 145 | 578  | 143 | 578  | 143 |
| -9                                | 1979           | 691  | 1781 | 568 | 1583 | 490 | 1385 | 413 | 1187 | 335 | 989  | 257 | 791  | 202 | 594  | 146 | 587  | 145 | 587  | 145 |
| -8                                | 2010           | 698  | 1809 | 573 | 1608 | 495 | 1407 | 416 | 1206 | 338 | 1005 | 260 | 804  | 204 | 603  | 148 | 597  | 146 | 597  | 146 |
| -7                                | 2041           | 704  | 1837 | 579 | 1632 | 499 | 1428 | 420 | 1224 | 341 | 1020 | 262 | 816  | 206 | 612  | 149 | 606  | 147 | 606  | 147 |
| -6                                | 2071           | 710  | 1864 | 584 | 1657 | 504 | 1450 | 424 | 1243 | 344 | 1036 | 264 | 829  | 207 | 621  | 150 | 615  | 149 | 615  | 149 |
| -5                                | 2102           | 717  | 1892 | 589 | 1682 | 508 | 1472 | 428 | 1261 | 347 | 1051 | 267 | 841  | 209 | 631  | 152 | 624  | 150 | 624  | 150 |
| -4                                | 2133           | 723  | 1920 | 594 | 1707 | 513 | 1493 | 432 | 1280 | 350 | 1067 | 269 | 853  | 211 | 640  | 153 | 633  | 151 | 633  | 151 |
| -3                                | 2164           | 729  | 1948 | 599 | 1731 | 517 | 1515 | 435 | 1299 | 353 | 1082 | 271 | 866  | 213 | 649  | 154 | 643  | 153 | 643  | 153 |
| -2                                | 2195           | 736  | 1976 | 605 | 1756 | 522 | 1537 | 439 | 1317 | 356 | 1098 | 274 | 878  | 215 | 659  | 156 | 652  | 154 | 652  | 154 |
| -1                                | 2226           | 742  | 2003 | 610 | 1781 | 526 | 1558 | 443 | 1336 | 360 | 1113 | 276 | 890  | 217 | 668  | 157 | 661  | 155 | 661  | 155 |
| 0                                 | 2257           | 748  | 2031 | 615 | 1806 | 531 | 1580 | 447 | 1354 | 363 | 1129 | 278 | 903  | 218 | 677  | 159 | 670  | 157 | 670  | 157 |
| 1                                 | 2288           | 755  | 2059 | 620 | 1830 | 535 | 1602 | 451 | 1373 | 366 | 1144 | 281 | 915  | 220 | 686  | 160 | 679  | 158 | 679  | 158 |
| 2                                 | 2319           | 761  | 2087 | 626 | 1855 | 540 | 1623 | 454 | 1391 | 369 | 1159 | 283 | 928  | 222 | 696  | 161 | 688  | 159 | 688  | 159 |
| 3                                 | 2357           | 771  | 2121 | 634 | 1885 | 547 | 1650 | 460 | 1414 | 374 | 1178 | 287 | 943  | 225 | 707  | 163 | 700  | 161 | 700  | 161 |
| 4                                 | 2395           | 782  | 2155 | 642 | 1916 | 554 | 1676 | 467 | 1437 | 379 | 1197 | 291 | 958  | 228 | 718  | 166 | 711  | 164 | 711  | 164 |
| 5                                 | 2433           | 792  | 2190 | 651 | 1946 | 562 | 1703 | 473 | 1460 | 384 | 1216 | 295 | 973  | 231 | 730  | 168 | 722  | 166 | 722  | 166 |
| 6                                 | 3117           | 847  | 2806 | 696 | 2494 | 601 | 2182 | 505 | 1870 | 410 | 1559 | 315 | 1247 | 247 | 935  | 179 | 925  | 177 | 925  | 177 |
| 7                                 | 3200           | 860  | 2880 | 707 | 2560 | 610 | 2240 | 513 | 1920 | 417 | 1600 | 320 | 1280 | 251 | 960  | 182 | 950  | 180 | 950  | 180 |
| 8                                 | 3283           | 873  | 2954 | 718 | 2626 | 620 | 2298 | 521 | 1970 | 423 | 1641 | 325 | 1313 | 255 | 985  | 185 | 975  | 183 | 975  | 183 |
| 9                                 | 3365           | 887  | 3029 | 729 | 2692 | 629 | 2356 | 529 | 2019 | 430 | 1683 | 330 | 1346 | 259 | 1010 | 188 | 999  | 186 | 999  | 186 |
| 10                                | 3448           | 900  | 3103 | 740 | 2758 | 638 | 2413 | 537 | 2069 | 436 | 1724 | 335 | 1379 | 263 | 1034 | 191 | 1024 | 188 | 1024 | 188 |
| 11                                | 3530           | 913  | 3177 | 751 | 2824 | 648 | 2471 | 545 | 2118 | 443 | 1765 | 340 | 1412 | 267 | 1059 | 193 | 1048 | 191 | 1048 | 191 |
| 12                                | 3613           | 927  | 3252 | 762 | 2890 | 657 | 2529 | 553 | 2168 | 449 | 1806 | 345 | 1445 | 271 | 1084 | 196 | 1073 | 194 | 1073 | 194 |
| 13                                | 3695           | 940  | 3326 | 773 | 2956 | 667 | 2587 | 561 | 2217 | 455 | 1848 | 350 | 1478 | 274 | 1109 | 199 | 1097 | 197 | 1097 | 197 |
| 14                                | 3778           | 953  | 3400 | 783 | 3022 | 676 | 2645 | 569 | 2267 | 462 | 1889 | 355 | 1511 | 278 | 1133 | 202 | 1122 | 200 | 1122 | 200 |
| 15                                | 3861           | 967  | 3475 | 794 | 3089 | 686 | 2702 | 577 | 2316 | 468 | 1930 | 360 | 1544 | 282 | 1158 | 205 | 1146 | 202 | 1146 | 202 |
| 16                                | 3943           | 980  | 3549 | 805 | 3155 | 695 | 2760 | 585 | 2366 | 475 | 1972 | 365 | 1577 | 286 | 1183 | 208 | 1171 | 205 | 1171 | 205 |
| 17                                | 4026           | 993  | 3623 | 816 | 3221 | 705 | 2818 | 593 | 2415 | 481 | 2013 | 370 | 1610 | 290 | 1208 | 210 | 1195 | 208 | 1195 | 208 |
| 18                                | 4108           | 1006 | 3698 | 827 | 3287 | 714 | 2876 | 601 | 2465 | 488 | 2054 | 375 | 1643 | 294 | 1233 | 213 | 1220 | 211 | 1220 | 211 |
| 19                                | 4191           | 1020 | 3772 | 838 | 3353 | 724 | 2934 | 609 | 2515 | 494 | 2095 | 379 | 1676 | 298 | 1257 | 216 | 1244 | 213 | 1244 | 213 |
| 20                                | 4274           | 1033 | 3846 | 849 | 3419 | 733 | 2991 | 617 | 2564 | 501 | 2137 | 384 | 1709 | 302 | 1282 | 219 | 1269 | 216 | 1269 | 216 |
| 21                                | 4356           | 1046 | 3921 | 860 | 3485 | 742 | 3049 | 625 | 2614 | 507 | 2178 | 389 | 1742 | 306 | 1307 | 222 | 1293 | 219 | 1293 | 219 |
| 22                                | 4439           | 1060 | 3995 | 871 | 3551 | 752 | 3107 | 633 | 2663 | 513 | 2219 | 394 | 1775 | 309 | 1332 | 224 | 1318 | 222 | 1318 | 222 |
| 23                                | 4521           | 1073 | 4069 | 882 | 3617 | 761 | 3165 | 641 | 2713 | 520 | 2261 | 399 | 1809 | 313 | 1356 | 227 | 1342 | 225 | 1342 | 225 |
| 24                                | 4604           | 1086 | 4143 | 893 | 3683 | 771 | 3223 | 649 | 2762 | 526 | 2302 | 404 | 1842 | 317 | 1381 | 230 | 1367 | 227 | 1367 | 227 |

Indoor : RAS-B13E2KVG-E  
Outdoor : RAS-13E2AVG-E

| Operation range | Cooling |      | Heating |      |
|-----------------|---------|------|---------|------|
|                 | Q       | P    | Q       | P    |
| MINIMUM         | W 1200  | 250  | 970     | 180  |
| RATING          | W 3300  | 1100 | 3600    | 920  |
| MAXIMUM         | W 3600  | 1250 | 4500    | 1250 |

| Cooling                           |                |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|                                   | 100            |      | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| 20                                | 3935           | 864  | 3542 | 671 | 3148 | 566 | 2755 | 461 | 2361 | 356 | 1968 | 251 | 1574 | 211 | 1431 | 196 | 1431 | 196 | 1431 | 196 |
| 21                                | 3893           | 879  | 3504 | 683 | 3114 | 576 | 2725 | 469 | 2336 | 363 | 1946 | 256 | 1557 | 215 | 1416 | 200 | 1416 | 200 | 1416 | 200 |
| 22                                | 3851           | 895  | 3465 | 695 | 3080 | 586 | 2695 | 478 | 2310 | 369 | 1925 | 260 | 1540 | 219 | 1400 | 203 | 1400 | 203 | 1400 | 203 |
| 23                                | 3808           | 911  | 3427 | 707 | 3047 | 597 | 2666 | 486 | 2285 | 376 | 1904 | 265 | 1523 | 222 | 1385 | 207 | 1385 | 207 | 1385 | 207 |
| 24                                | 3766           | 927  | 3389 | 720 | 3013 | 607 | 2636 | 495 | 2260 | 382 | 1883 | 270 | 1506 | 226 | 1369 | 211 | 1369 | 211 | 1369 | 211 |
| 25                                | 3724           | 942  | 3351 | 732 | 2979 | 617 | 2606 | 503 | 2234 | 389 | 1862 | 274 | 1489 | 230 | 1354 | 214 | 1354 | 214 | 1354 | 214 |
| 26                                | 3681           | 958  | 3313 | 744 | 2945 | 628 | 2577 | 511 | 2209 | 395 | 1841 | 279 | 1472 | 234 | 1339 | 218 | 1339 | 218 | 1339 | 218 |
| 27                                | 3639           | 974  | 3275 | 756 | 2911 | 638 | 2547 | 520 | 2183 | 402 | 1819 | 283 | 1456 | 238 | 1323 | 221 | 1323 | 221 | 1323 | 221 |
| 28                                | 3596           | 990  | 3237 | 769 | 2877 | 648 | 2518 | 528 | 2158 | 408 | 1798 | 288 | 1439 | 242 | 1308 | 225 | 1308 | 225 | 1308 | 225 |
| 29                                | 3554           | 1005 | 3199 | 781 | 2843 | 659 | 2488 | 537 | 2132 | 415 | 1777 | 292 | 1422 | 246 | 1292 | 229 | 1292 | 229 | 1292 | 229 |
| 30                                | 3512           | 1021 | 3161 | 793 | 2809 | 669 | 2458 | 545 | 2107 | 421 | 1756 | 297 | 1405 | 249 | 1277 | 232 | 1277 | 232 | 1277 | 232 |
| 31                                | 3469           | 1037 | 3122 | 805 | 2776 | 679 | 2429 | 553 | 2082 | 428 | 1735 | 302 | 1388 | 253 | 1262 | 236 | 1262 | 236 | 1262 | 236 |
| 32                                | 3427           | 1053 | 3084 | 818 | 2742 | 690 | 2399 | 562 | 2056 | 434 | 1714 | 306 | 1371 | 257 | 1246 | 239 | 1246 | 239 | 1246 | 239 |
| 33                                | 3385           | 1068 | 3046 | 830 | 2708 | 700 | 2369 | 570 | 2031 | 441 | 1692 | 311 | 1354 | 261 | 1231 | 243 | 1231 | 243 | 1231 | 243 |
| 34                                | 3342           | 1084 | 3008 | 842 | 2674 | 710 | 2340 | 579 | 2005 | 447 | 1671 | 315 | 1337 | 265 | 1215 | 246 | 1215 | 246 | 1215 | 246 |
| 35                                | 3300           | 1100 | 2970 | 854 | 2640 | 721 | 2310 | 587 | 1980 | 454 | 1650 | 320 | 1320 | 269 | 1200 | 250 | 1200 | 250 | 1200 | 250 |
| 36                                | 3258           | 1116 | 2932 | 867 | 2606 | 731 | 2280 | 596 | 1955 | 460 | 1629 | 325 | 1303 | 273 | 1185 | 254 | 1185 | 254 | 1185 | 254 |
| 37                                | 3215           | 1132 | 2894 | 879 | 2572 | 741 | 2251 | 604 | 1929 | 467 | 1608 | 329 | 1286 | 276 | 1169 | 257 | 1169 | 257 | 1169 | 257 |
| 38                                | 3173           | 1147 | 2856 | 891 | 2538 | 752 | 2221 | 612 | 1904 | 473 | 1586 | 334 | 1269 | 280 | 1154 | 261 | 1154 | 261 | 1154 | 261 |
| 39                                | 3131           | 1163 | 2818 | 903 | 2504 | 762 | 2191 | 621 | 1878 | 480 | 1565 | 338 | 1252 | 284 | 1138 | 264 | 1138 | 264 | 1138 | 264 |
| 40                                | 3088           | 1179 | 2779 | 916 | 2471 | 772 | 2162 | 629 | 1853 | 486 | 1544 | 343 | 1235 | 288 | 1123 | 268 | 1123 | 268 | 1123 | 268 |
| 41                                | 3046           | 1195 | 2741 | 928 | 2437 | 783 | 2132 | 638 | 1828 | 493 | 1523 | 348 | 1218 | 292 | 1108 | 272 | 1108 | 272 | 1108 | 272 |
| 42                                | 3004           | 1210 | 2703 | 940 | 2403 | 793 | 2102 | 646 | 1802 | 499 | 1502 | 352 | 1201 | 296 | 1092 | 275 | 1092 | 275 | 1092 | 275 |
| 43                                | 2961           | 1226 | 2665 | 952 | 2369 | 803 | 2073 | 654 | 1777 | 506 | 1481 | 357 | 1184 | 299 | 1077 | 279 | 1077 | 279 | 1077 | 279 |
| 44                                | 2919           | 1242 | 2627 | 964 | 2335 | 814 | 2043 | 663 | 1751 | 512 | 1459 | 361 | 1168 | 303 | 1061 | 282 | 1061 | 282 | 1061 | 282 |
| 45                                | 2877           | 1258 | 2589 | 977 | 2301 | 824 | 2014 | 671 | 1726 | 519 | 1438 | 366 | 1151 | 307 | 1046 | 286 | 1046 | 286 | 1046 | 286 |
| 46                                | 2834           | 1273 | 2551 | 989 | 2267 | 834 | 1984 | 680 | 1700 | 525 | 1417 | 370 | 1134 | 311 | 1031 | 289 | 1031 | 289 | 1031 | 289 |

| Heating                        |                |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|--------------------------------|----------------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor Temperature<br>DB (°C) | Parts Load (%) |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|                                | 100            |      | 90   |     | 80   |     | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                | Q              | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                            | 1565           | 592  | 1409 | 486 | 1252 | 421 | 1096 | 356 | 939  | 290 | 783  | 225 | 626  | 178 | 470  | 130 | 422  | 116 | 422  | 116 |
| -14                            | 1670           | 614  | 1503 | 504 | 1336 | 437 | 1169 | 369 | 1002 | 301 | 835  | 234 | 668  | 184 | 501  | 135 | 450  | 120 | 450  | 120 |
| -13                            | 1774           | 637  | 1597 | 522 | 1419 | 452 | 1242 | 382 | 1064 | 312 | 887  | 242 | 710  | 191 | 532  | 140 | 478  | 125 | 478  | 125 |
| -12                            | 1878           | 659  | 1690 | 541 | 1503 | 468 | 1315 | 396 | 1127 | 323 | 939  | 251 | 751  | 198 | 563  | 145 | 506  | 129 | 506  | 129 |
| -11                            | 1983           | 681  | 1784 | 559 | 1586 | 484 | 1388 | 409 | 1190 | 334 | 991  | 259 | 793  | 204 | 595  | 150 | 534  | 133 | 534  | 133 |
| -10                            | 2087           | 703  | 1878 | 577 | 1670 | 500 | 1461 | 422 | 1252 | 345 | 1043 | 267 | 835  | 211 | 626  | 155 | 562  | 138 | 562  | 138 |
| -9                             | 2130           | 712  | 1917 | 585 | 1704 | 506 | 1491 | 428 | 1278 | 349 | 1065 | 271 | 852  | 214 | 639  | 157 | 574  | 139 | 574  | 139 |
| -8                             | 2174           | 722  | 1957 | 592 | 1739 | 513 | 1522 | 433 | 1304 | 354 | 1087 | 275 | 870  | 217 | 652  | 159 | 586  | 141 | 586  | 141 |
| -7                             | 2217           | 731  | 1996 | 600 | 1774 | 519 | 1552 | 439 | 1330 | 359 | 1109 | 278 | 887  | 219 | 665  | 161 | 597  | 143 | 597  | 143 |
| -6                             | 2261           | 740  | 2035 | 608 | 1809 | 526 | 1583 | 445 | 1357 | 363 | 1130 | 282 | 904  | 222 | 678  | 163 | 609  | 145 | 609  | 145 |
| -5                             | 2304           | 749  | 2074 | 615 | 1843 | 533 | 1613 | 450 | 1383 | 368 | 1152 | 285 | 922  | 225 | 691  | 165 | 621  | 147 | 621  | 147 |
| -4                             | 2348           | 759  | 2113 | 623 | 1878 | 539 | 1643 | 456 | 1409 | 372 | 1174 | 289 | 939  | 228 | 704  | 167 | 633  | 148 | 633  | 148 |
| -3                             | 2391           | 768  | 2152 | 630 | 1913 | 546 | 1674 | 461 | 1435 | 377 | 1196 | 292 | 957  | 231 | 717  | 169 | 644  | 150 | 644  | 150 |
| -2                             | 2435           | 777  | 2191 | 638 | 1948 | 552 | 1704 | 467 | 1461 | 381 | 1217 | 296 | 974  | 233 | 730  | 171 | 656  | 152 | 656  | 152 |
| -1                             | 2478           | 786  | 2230 | 646 | 1983 | 559 | 1735 | 472 | 1487 | 386 | 1239 | 299 | 991  | 236 | 743  | 173 | 668  | 154 | 668  | 154 |
| 0                              | 2522           | 796  | 2270 | 653 | 2017 | 566 | 1765 | 478 | 1513 | 390 | 1261 | 303 | 1009 | 239 | 757  | 175 | 679  | 156 | 679  | 156 |
| 1                              | 2565           | 805  | 2309 | 661 | 2052 | 572 | 1796 | 483 | 1539 | 395 | 1283 | 306 | 1026 | 242 | 770  | 177 | 691  | 157 | 691  | 157 |
| 2                              | 2609           | 814  | 2348 | 668 | 2087 | 579 | 1826 | 489 | 1565 | 399 | 1304 | 310 | 1043 | 244 | 783  | 179 | 703  | 159 | 703  | 159 |
| 3                              | 2651           | 825  | 2386 | 677 | 2121 | 586 | 1856 | 496 | 1591 | 405 | 1326 | 314 | 1061 | 248 | 795  | 182 | 714  | 161 | 714  | 161 |
| 4                              | 2694           | 836  | 2425 | 686 | 2155 | 594 | 1886 | 502 | 1616 | 410 | 1347 | 318 | 1078 | 251 | 808  | 184 | 726  | 164 | 726  | 164 |
| 5                              | 2737           | 847  | 2463 | 695 | 2190 | 602 | 1916 | 509 | 1642 | 415 | 1368 | 322 | 1095 | 254 | 821  | 186 | 737  | 166 | 737  | 166 |
| 6                              | 3507           | 906  | 3156 | 743 | 2806 | 644 | 2455 | 544 | 2104 | 444 | 1754 | 345 | 1403 | 272 | 1052 | 199 | 945  | 177 | 945  | 177 |
| 7                              | 3600           | 920  | 3240 | 755 | 2880 | 654 | 2520 | 553 | 2160 | 451 | 1800 | 350 | 1440 | 276 | 1080 | 203 | 970  | 180 | 970  | 180 |
| 8                              | 3693           | 934  | 3324 | 767 | 2954 | 664 | 2585 | 561 | 2216 | 458 | 1846 | 355 | 1477 | 281 | 1108 | 206 | 995  | 183 | 995  | 183 |
| 9                              | 3786           | 948  | 3407 | 779 | 3029 | 674 | 2650 | 570 | 2271 | 465 | 1893 | 361 | 1514 | 285 | 1136 | 209 | 1020 | 186 | 1020 | 186 |
| 10                             | 3879           | 963  | 3491 | 790 | 3103 | 684 | 2715 | 578 | 2327 | 472 | 1939 | 366 | 1551 | 289 | 1164 | 212 | 1045 | 188 | 1045 | 188 |
| 11                             | 3972           | 977  | 3574 | 802 | 3177 | 694 | 2780 | 587 | 2383 | 479 | 1986 | 372 | 1589 | 293 | 1191 | 215 | 1070 | 191 | 1070 | 191 |
| 12                             | 4065           | 991  | 3658 | 814 | 3252 | 705 | 2845 | 595 | 2439 | 486 | 2032 | 377 | 1626 | 298 | 1219 | 218 | 1095 | 194 | 1095 | 194 |
| 13                             | 4157           | 1005 | 3742 | 825 | 3326 | 715 | 2910 | 604 | 2494 | 493 | 2079 | 383 | 1663 | 302 | 1247 | 221 | 1120 | 197 | 1120 | 197 |
| 14                             | 4250           | 1020 | 3825 | 837 | 3400 | 725 | 2975 | 612 | 2550 | 500 | 2125 | 388 | 1700 | 306 | 1275 | 224 | 1145 | 200 | 1145 | 200 |
| 15                             | 4343           | 1034 | 3909 | 849 | 3475 | 735 | 3040 | 621 | 2606 | 507 | 2172 | 393 | 1737 | 310 | 1303 | 228 | 1170 | 202 | 1170 | 202 |
| 16                             | 4436           | 1048 | 3993 | 860 | 3549 | 745 | 3105 | 630 | 2662 | 514 | 2218 | 399 | 1774 | 315 | 1331 | 231 | 1195 | 205 | 1195 | 205 |
| 17                             | 4529           | 1062 | 4076 | 872 | 3623 | 755 | 3170 | 638 | 2717 | 521 | 2265 | 404 | 1812 | 319 | 1359 | 234 | 1220 | 208 | 1220 | 208 |
| 18                             | 4622           | 1077 | 4160 | 884 | 3698 | 765 | 3235 | 647 | 2773 | 528 | 2311 | 410 | 1849 | 323 | 1387 | 237 | 1245 | 211 | 1245 | 211 |
| 19                             | 4715           | 1091 | 4243 | 895 | 3772 | 775 | 3300 | 655 | 2829 | 535 | 2357 | 415 | 1886 | 328 | 1414 | 240 | 1270 | 213 | 1270 | 213 |
| 20                             | 4808           | 1105 | 4327 | 907 | 3846 | 785 | 3365 | 664 | 2885 | 542 | 2404 | 420 | 1923 | 332 | 1442 | 243 | 1295 | 216 | 1295 | 216 |
| 21                             | 4901           | 1119 | 4411 | 919 | 3921 | 796 | 3430 | 672 | 2940 | 549 | 2450 | 426 | 1960 | 336 | 1470 | 246 | 1320 | 219 | 1320 | 219 |
| 22                             | 4994           | 1134 | 4494 | 931 | 3995 | 806 | 3495 | 681 | 2996 | 556 | 2497 | 431 | 1997 | 340 | 1498 | 250 | 1345 | 222 | 1345 | 222 |
| 23                             | 5086           | 1148 | 4578 | 942 | 4069 | 816 | 3561 | 689 | 3052 | 563 | 2543 | 437 | 2035 | 345 | 1526 | 253 | 1371 | 225 | 1371 | 225 |
| 24                             | 5179           | 1162 | 4661 | 954 | 4143 | 826 | 3626 | 698 | 3108 | 570 | 2590 | 442 | 2072 | 349 | 1554 | 256 | 1396 | 227 | 1396 | 227 |

Indoor : RAS-B16E2KVG-E  
Outdoor : RAS-16E2AVG-E

| Operation range | Cooling |      | Heating |      |
|-----------------|---------|------|---------|------|
|                 | Q       | P    | Q       | P    |
| MINIMUM         | W 1400  | 340  | 1300    | 240  |
| RATING          | W 4200  | 1270 | 5000    | 1340 |
| MAXIMUM         | W 4700  | 1600 | 6000    | 1700 |

| Cooling                           |                |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|------|------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|                                   | 100            |      | 90   |      | 80   |      | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P    | Q    | P    | Q    | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| 20                                | 5009           | 997  | 4508 | 831  | 4007 | 721  | 3506 | 612 | 3005 | 502 | 2504 | 393 | 2003 | 317 | 1670 | 267 | 1670 | 267 | 1670 | 267 |
| 21                                | 4955           | 1015 | 4459 | 846  | 3964 | 734  | 3468 | 623 | 2973 | 511 | 2477 | 400 | 1982 | 323 | 1652 | 272 | 1652 | 272 | 1652 | 272 |
| 22                                | 4901           | 1033 | 4411 | 861  | 3921 | 747  | 3430 | 634 | 2940 | 520 | 2450 | 407 | 1960 | 329 | 1634 | 277 | 1634 | 277 | 1634 | 277 |
| 23                                | 4847           | 1052 | 4362 | 876  | 3877 | 761  | 3393 | 645 | 2908 | 530 | 2423 | 414 | 1939 | 335 | 1616 | 282 | 1616 | 282 | 1616 | 282 |
| 24                                | 4793           | 1070 | 4314 | 891  | 3834 | 774  | 3355 | 656 | 2876 | 539 | 2396 | 421 | 1917 | 340 | 1598 | 286 | 1598 | 286 | 1598 | 286 |
| 25                                | 4739           | 1088 | 4265 | 906  | 3791 | 787  | 3317 | 667 | 2843 | 548 | 2370 | 428 | 1896 | 346 | 1580 | 291 | 1580 | 291 | 1580 | 291 |
| 26                                | 4685           | 1106 | 4217 | 922  | 3748 | 800  | 3280 | 679 | 2811 | 557 | 2343 | 436 | 1874 | 352 | 1562 | 296 | 1562 | 296 | 1562 | 296 |
| 27                                | 4631           | 1124 | 4168 | 937  | 3705 | 813  | 3242 | 690 | 2779 | 566 | 2316 | 443 | 1852 | 358 | 1544 | 301 | 1544 | 301 | 1544 | 301 |
| 28                                | 4577           | 1143 | 4120 | 952  | 3662 | 826  | 3204 | 701 | 2746 | 575 | 2289 | 450 | 1831 | 363 | 1526 | 306 | 1526 | 306 | 1526 | 306 |
| 29                                | 4523           | 1161 | 4071 | 967  | 3619 | 840  | 3166 | 712 | 2714 | 585 | 2262 | 457 | 1809 | 369 | 1508 | 311 | 1508 | 311 | 1508 | 311 |
| 30                                | 4470           | 1179 | 4023 | 982  | 3576 | 853  | 3129 | 723 | 2682 | 594 | 2235 | 464 | 1788 | 375 | 1490 | 316 | 1490 | 316 | 1490 | 316 |
| 31                                | 4416           | 1197 | 3974 | 997  | 3532 | 866  | 3091 | 734 | 2649 | 603 | 2208 | 471 | 1766 | 381 | 1472 | 321 | 1472 | 321 | 1472 | 321 |
| 32                                | 4362           | 1215 | 3926 | 1013 | 3489 | 879  | 3053 | 746 | 2617 | 612 | 2181 | 479 | 1745 | 387 | 1454 | 325 | 1454 | 325 | 1454 | 325 |
| 33                                | 4308           | 1234 | 3877 | 1028 | 3446 | 892  | 3015 | 757 | 2585 | 621 | 2154 | 486 | 1723 | 392 | 1436 | 330 | 1436 | 330 | 1436 | 330 |
| 34                                | 4254           | 1252 | 3829 | 1043 | 3403 | 905  | 2978 | 768 | 2552 | 630 | 2127 | 493 | 1702 | 398 | 1418 | 335 | 1418 | 335 | 1418 | 335 |
| 35                                | 4200           | 1270 | 3780 | 1058 | 3360 | 919  | 2940 | 779 | 2520 | 640 | 2100 | 500 | 1680 | 404 | 1400 | 340 | 1400 | 340 | 1400 | 340 |
| 36                                | 4146           | 1288 | 3731 | 1073 | 3317 | 932  | 2902 | 790 | 2488 | 649 | 2073 | 507 | 1658 | 410 | 1382 | 345 | 1382 | 345 | 1382 | 345 |
| 37                                | 4092           | 1306 | 3683 | 1088 | 3274 | 945  | 2865 | 801 | 2455 | 658 | 2046 | 514 | 1637 | 416 | 1364 | 350 | 1364 | 350 | 1364 | 350 |
| 38                                | 4038           | 1325 | 3634 | 1103 | 3231 | 958  | 2827 | 812 | 2423 | 667 | 2019 | 522 | 1615 | 421 | 1346 | 355 | 1346 | 355 | 1346 | 355 |
| 39                                | 3984           | 1343 | 3586 | 1119 | 3188 | 971  | 2789 | 824 | 2391 | 676 | 1992 | 529 | 1594 | 427 | 1328 | 359 | 1328 | 359 | 1328 | 359 |
| 40                                | 3931           | 1361 | 3537 | 1134 | 3144 | 984  | 2751 | 835 | 2358 | 685 | 1965 | 536 | 1572 | 433 | 1310 | 364 | 1310 | 364 | 1310 | 364 |
| 41                                | 3877           | 1379 | 3489 | 1149 | 3101 | 997  | 2714 | 846 | 2326 | 694 | 1938 | 543 | 1551 | 439 | 1292 | 369 | 1292 | 369 | 1292 | 369 |
| 42                                | 3823           | 1397 | 3440 | 1164 | 3058 | 1011 | 2676 | 857 | 2294 | 704 | 1911 | 550 | 1529 | 445 | 1274 | 374 | 1274 | 374 | 1274 | 374 |
| 43                                | 3769           | 1416 | 3392 | 1179 | 3015 | 1024 | 2638 | 868 | 2261 | 713 | 1884 | 557 | 1508 | 450 | 1256 | 379 | 1256 | 379 | 1256 | 379 |
| 44                                | 3715           | 1434 | 3343 | 1194 | 2972 | 1037 | 2600 | 879 | 2229 | 722 | 1857 | 565 | 1486 | 456 | 1238 | 384 | 1238 | 384 | 1238 | 384 |
| 45                                | 3661           | 1452 | 3295 | 1210 | 2929 | 1050 | 2563 | 891 | 2197 | 731 | 1831 | 572 | 1464 | 462 | 1220 | 389 | 1220 | 389 | 1220 | 389 |
| 46                                | 3607           | 1470 | 3246 | 1225 | 2886 | 1063 | 2525 | 902 | 2164 | 740 | 1804 | 579 | 1443 | 468 | 1202 | 394 | 1202 | 394 | 1202 | 394 |

| Heating                        |                |      |      |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |      |     |
|--------------------------------|----------------|------|------|------|------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor Temperature<br>DB (°C) | Parts Load (%) |      |      |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |      |     |
|                                | 100            |      | 90   |      | 80   |      | 70   |      | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                | Q              | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                            | 2415           | 963  | 2174 | 857  | 1932 | 750  | 1691 | 643  | 1449 | 536 | 1208 | 460 | 966  | 340 | 725  | 221 | 628  | 173 | 628  | 173 |
| -14                            | 2502           | 982  | 2252 | 873  | 2001 | 764  | 1751 | 655  | 1501 | 546 | 1251 | 469 | 1001 | 347 | 751  | 225 | 650  | 176 | 650  | 176 |
| -13                            | 2588           | 1001 | 2329 | 890  | 2070 | 779  | 1812 | 668  | 1553 | 557 | 1294 | 478 | 1035 | 353 | 776  | 229 | 673  | 179 | 673  | 179 |
| -12                            | 2674           | 1019 | 2407 | 906  | 2139 | 793  | 1872 | 680  | 1605 | 567 | 1337 | 487 | 1070 | 360 | 802  | 233 | 695  | 183 | 695  | 183 |
| -11                            | 2761           | 1038 | 2484 | 923  | 2208 | 807  | 1932 | 692  | 1656 | 577 | 1380 | 496 | 1104 | 367 | 828  | 237 | 718  | 186 | 718  | 186 |
| -10                            | 2847           | 1056 | 2562 | 939  | 2277 | 822  | 1993 | 705  | 1708 | 588 | 1423 | 504 | 1139 | 373 | 854  | 242 | 740  | 189 | 740  | 189 |
| -9                             | 2933           | 1075 | 2640 | 955  | 2346 | 836  | 2053 | 717  | 1760 | 598 | 1467 | 513 | 1173 | 380 | 880  | 246 | 763  | 192 | 763  | 192 |
| -8                             | 3019           | 1093 | 2717 | 972  | 2415 | 851  | 2114 | 729  | 1812 | 608 | 1510 | 522 | 1208 | 386 | 906  | 250 | 785  | 196 | 785  | 196 |
| -7                             | 3106           | 1112 | 2795 | 988  | 2484 | 865  | 2174 | 742  | 1863 | 618 | 1553 | 531 | 1242 | 393 | 932  | 254 | 807  | 199 | 807  | 199 |
| -6                             | 3163           | 1120 | 2847 | 996  | 2530 | 871  | 2214 | 747  | 1898 | 623 | 1582 | 535 | 1265 | 396 | 949  | 256 | 822  | 201 | 822  | 201 |
| -5                             | 3221           | 1128 | 2899 | 1003 | 2576 | 878  | 2254 | 753  | 1932 | 628 | 1610 | 539 | 1288 | 399 | 966  | 258 | 837  | 202 | 837  | 202 |
| -4                             | 3278           | 1136 | 2950 | 1010 | 2622 | 884  | 2295 | 758  | 1967 | 632 | 1639 | 543 | 1311 | 401 | 983  | 260 | 852  | 204 | 852  | 204 |
| -3                             | 3336           | 1145 | 3002 | 1018 | 2669 | 891  | 2335 | 764  | 2001 | 637 | 1668 | 547 | 1334 | 404 | 1001 | 262 | 867  | 205 | 867  | 205 |
| -2                             | 3393           | 1153 | 3054 | 1025 | 2715 | 897  | 2375 | 769  | 2036 | 641 | 1697 | 551 | 1357 | 407 | 1018 | 264 | 882  | 206 | 882  | 206 |
| -1                             | 3451           | 1161 | 3106 | 1032 | 2761 | 904  | 2415 | 775  | 2070 | 646 | 1725 | 555 | 1380 | 410 | 1035 | 266 | 897  | 208 | 897  | 208 |
| 0                              | 3508           | 1169 | 3157 | 1040 | 2807 | 910  | 2456 | 780  | 2105 | 650 | 1754 | 559 | 1403 | 413 | 1052 | 268 | 912  | 209 | 912  | 209 |
| 1                              | 3566           | 1178 | 3209 | 1047 | 2853 | 916  | 2496 | 786  | 2139 | 655 | 1783 | 562 | 1426 | 416 | 1070 | 270 | 927  | 211 | 927  | 211 |
| 2                              | 3623           | 1186 | 3261 | 1054 | 2899 | 923  | 2536 | 791  | 2174 | 660 | 1812 | 566 | 1449 | 419 | 1087 | 271 | 942  | 212 | 942  | 212 |
| 3                              | 3683           | 1202 | 3314 | 1068 | 2946 | 935  | 2578 | 802  | 2210 | 669 | 1841 | 574 | 1473 | 425 | 1105 | 275 | 957  | 215 | 957  | 215 |
| 4                              | 3742           | 1218 | 3368 | 1083 | 2994 | 948  | 2619 | 812  | 2245 | 677 | 1871 | 582 | 1497 | 430 | 1123 | 279 | 973  | 218 | 973  | 218 |
| 5                              | 3801           | 1234 | 3421 | 1097 | 3041 | 960  | 2661 | 823  | 2281 | 686 | 1901 | 589 | 1520 | 436 | 1140 | 282 | 988  | 221 | 988  | 221 |
| 6                              | 4871           | 1319 | 4384 | 1173 | 3897 | 1027 | 3410 | 880  | 2923 | 734 | 2435 | 630 | 1948 | 466 | 1461 | 302 | 1266 | 236 | 1266 | 236 |
| 7                              | 5000           | 1340 | 4500 | 1191 | 4000 | 1043 | 3500 | 894  | 3000 | 745 | 2500 | 640 | 2000 | 473 | 1500 | 307 | 1300 | 240 | 1300 | 240 |
| 8                              | 5129           | 1361 | 4616 | 1210 | 4103 | 1059 | 3590 | 908  | 3077 | 757 | 2565 | 650 | 2052 | 481 | 1539 | 311 | 1334 | 244 | 1334 | 244 |
| 9                              | 5258           | 1381 | 4732 | 1228 | 4206 | 1075 | 3681 | 922  | 3155 | 768 | 2629 | 660 | 2103 | 488 | 1577 | 316 | 1367 | 247 | 1367 | 247 |
| 10                             | 5387           | 1402 | 4848 | 1247 | 4310 | 1091 | 3771 | 936  | 3232 | 780 | 2694 | 670 | 2155 | 495 | 1616 | 321 | 1401 | 251 | 1401 | 251 |
| 11                             | 5516           | 1423 | 4965 | 1265 | 4413 | 1107 | 3861 | 949  | 3310 | 792 | 2758 | 680 | 2206 | 503 | 1655 | 326 | 1434 | 255 | 1434 | 255 |
| 12                             | 5645           | 1444 | 5081 | 1284 | 4516 | 1123 | 3952 | 963  | 3387 | 803 | 2823 | 690 | 2258 | 510 | 1694 | 330 | 1468 | 259 | 1468 | 259 |
| 13                             | 5774           | 1464 | 5197 | 1302 | 4619 | 1140 | 4042 | 977  | 3465 | 815 | 2887 | 699 | 2310 | 517 | 1732 | 335 | 1501 | 262 | 1501 | 262 |
| 14                             | 5903           | 1485 | 5313 | 1320 | 4723 | 1156 | 4132 | 991  | 3542 | 826 | 2952 | 709 | 2361 | 525 | 1771 | 340 | 1535 | 266 | 1535 | 266 |
| 15                             | 6032           | 1506 | 5429 | 1339 | 4826 | 1172 | 4223 | 1005 | 3619 | 838 | 3016 | 719 | 2413 | 532 | 1810 | 345 | 1568 | 270 | 1568 | 270 |
| 16                             | 6161           | 1527 | 5545 | 1357 | 4929 | 1188 | 4313 | 1019 | 3697 | 849 | 3081 | 729 | 2465 | 539 | 1848 | 349 | 1602 | 273 | 1602 | 273 |
| 17                             | 6290           | 1547 | 5661 | 1376 | 5032 | 1204 | 4403 | 1032 | 3774 | 861 | 3145 | 739 | 2516 | 547 | 1887 | 354 | 1635 | 277 | 1635 | 277 |
| 18                             | 6419           | 1568 | 5777 | 1394 | 5135 | 1220 | 4494 | 1046 | 3852 | 872 | 3210 | 749 | 2568 | 554 | 1926 | 359 | 1669 | 281 | 1669 | 281 |
| 19                             | 6548           | 1589 | 5894 | 1413 | 5239 | 1236 | 4584 | 1060 | 3929 | 884 | 3274 | 759 | 2619 | 561 | 1965 | 364 | 1703 | 285 | 1703 | 285 |
| 20                             | 6677           | 1610 | 6010 | 1431 | 5342 | 1253 | 4674 | 1074 | 4006 | 895 | 3339 | 769 | 2671 | 569 | 2003 | 368 | 1736 | 288 | 1736 | 288 |
| 21                             | 6806           | 1630 | 6126 | 1450 | 5445 | 1269 | 4765 | 1088 | 4084 | 907 | 3403 | 779 | 2723 | 576 | 2042 | 373 | 1770 | 292 | 1770 | 292 |
| 22                             | 6935           | 1651 | 6242 | 1468 | 5548 | 1285 | 4855 | 1102 | 4161 | 919 | 3468 | 789 | 2774 | 583 | 2081 | 378 | 1803 | 296 | 1803 | 296 |
| 23                             | 7065           | 1672 | 6358 | 1486 | 5652 | 1301 | 4945 | 1116 | 4239 | 930 | 3532 | 799 | 2826 | 591 | 2119 | 383 | 1837 | 299 | 1837 | 299 |
| 24                             | 7194           | 1693 | 6474 | 1505 | 5755 | 1317 | 5035 | 1129 | 4316 | 942 | 3597 | 808 | 2877 | 598 | 2158 | 387 | 1870 | 303 | 1870 | 303 |

Indoor : RAS-18E2KVG-E  
Outdoor : RAS-18E2AVG-E

| Operation range | Cooling |      | Heating |      |
|-----------------|---------|------|---------|------|
|                 | Q       | P    | Q       | P    |
| MINIMUM         | W 1450  | 340  | 1350    | 260  |
| RATING          | W 5000  | 1500 | 5400    | 1500 |
| MAXIMUM         | W 5500  | 1800 | 6000    | 1800 |

| Cooling                           |                |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|------|------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|                                   | 100            |      | 90   |      | 80   |      | 70   |     | 60   |     | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P    | Q    | P    | Q    | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| 20                                | 5963           | 1178 | 5366 | 937  | 4770 | 809  | 4174 | 680 | 3578 | 552 | 2981 | 424 | 2385 | 349 | 1789 | 274 | 1729 | 267 | 1729 | 267 |
| 21                                | 5898           | 1199 | 5309 | 954  | 4719 | 823  | 4129 | 693 | 3539 | 562 | 2949 | 432 | 2359 | 356 | 1770 | 279 | 1711 | 272 | 1711 | 272 |
| 22                                | 5834           | 1221 | 5251 | 971  | 4667 | 838  | 4084 | 705 | 3501 | 572 | 2917 | 439 | 2334 | 362 | 1750 | 284 | 1692 | 277 | 1692 | 277 |
| 23                                | 5770           | 1242 | 5193 | 988  | 4616 | 853  | 4039 | 718 | 3462 | 582 | 2885 | 447 | 2308 | 368 | 1731 | 289 | 1673 | 282 | 1673 | 282 |
| 24                                | 5706           | 1264 | 5135 | 1005 | 4565 | 868  | 3994 | 730 | 3424 | 592 | 2853 | 455 | 2282 | 375 | 1712 | 294 | 1655 | 286 | 1655 | 286 |
| 25                                | 5642           | 1285 | 5078 | 1022 | 4513 | 882  | 3949 | 743 | 3385 | 603 | 2821 | 463 | 2257 | 381 | 1693 | 299 | 1636 | 291 | 1636 | 291 |
| 26                                | 5578           | 1307 | 5020 | 1040 | 4462 | 897  | 3904 | 755 | 3347 | 613 | 2789 | 470 | 2231 | 387 | 1673 | 304 | 1617 | 296 | 1617 | 296 |
| 27                                | 5513           | 1328 | 4962 | 1057 | 4411 | 912  | 3859 | 767 | 3308 | 623 | 2757 | 478 | 2205 | 394 | 1654 | 309 | 1599 | 301 | 1599 | 301 |
| 28                                | 5449           | 1350 | 4904 | 1074 | 4359 | 927  | 3814 | 780 | 3270 | 633 | 2725 | 486 | 2180 | 400 | 1635 | 314 | 1580 | 306 | 1580 | 306 |
| 29                                | 5385           | 1371 | 4847 | 1091 | 4308 | 942  | 3770 | 792 | 3231 | 643 | 2693 | 494 | 2154 | 407 | 1616 | 319 | 1562 | 311 | 1562 | 311 |
| 30                                | 5321           | 1393 | 4789 | 1108 | 4257 | 956  | 3725 | 805 | 3193 | 653 | 2660 | 501 | 2128 | 413 | 1596 | 324 | 1543 | 316 | 1543 | 316 |
| 31                                | 5257           | 1414 | 4731 | 1125 | 4205 | 971  | 3680 | 817 | 3154 | 663 | 2628 | 509 | 2103 | 419 | 1577 | 329 | 1524 | 321 | 1524 | 321 |
| 32                                | 5193           | 1436 | 4673 | 1142 | 4154 | 986  | 3635 | 829 | 3116 | 673 | 2596 | 517 | 2077 | 426 | 1558 | 334 | 1506 | 325 | 1506 | 325 |
| 33                                | 5128           | 1457 | 4616 | 1159 | 4103 | 1001 | 3590 | 842 | 3077 | 683 | 2564 | 525 | 2051 | 432 | 1539 | 340 | 1487 | 330 | 1487 | 330 |
| 34                                | 5064           | 1479 | 4558 | 1176 | 4051 | 1015 | 3545 | 854 | 3039 | 693 | 2532 | 532 | 2026 | 438 | 1519 | 345 | 1469 | 335 | 1469 | 335 |
| 35                                | 5000           | 1500 | 4500 | 1194 | 4000 | 1030 | 3500 | 867 | 3000 | 703 | 2500 | 540 | 2000 | 445 | 1500 | 350 | 1450 | 340 | 1450 | 340 |
| 36                                | 4936           | 1522 | 4442 | 1211 | 3949 | 1045 | 3455 | 879 | 2962 | 713 | 2468 | 548 | 1974 | 451 | 1481 | 355 | 1431 | 345 | 1431 | 345 |
| 37                                | 4872           | 1543 | 4385 | 1228 | 3897 | 1060 | 3410 | 892 | 2923 | 724 | 2436 | 555 | 1949 | 458 | 1462 | 360 | 1413 | 350 | 1413 | 350 |
| 38                                | 4808           | 1565 | 4327 | 1245 | 3846 | 1074 | 3365 | 904 | 2885 | 734 | 2404 | 563 | 1923 | 464 | 1442 | 365 | 1394 | 355 | 1394 | 355 |
| 39                                | 4743           | 1586 | 4269 | 1262 | 3795 | 1089 | 3320 | 916 | 2846 | 744 | 2372 | 571 | 1897 | 470 | 1423 | 370 | 1376 | 359 | 1376 | 359 |
| 40                                | 4679           | 1608 | 4211 | 1279 | 3743 | 1104 | 3275 | 929 | 2808 | 754 | 2340 | 579 | 1872 | 477 | 1404 | 375 | 1357 | 364 | 1357 | 364 |
| 41                                | 4615           | 1629 | 4154 | 1296 | 3692 | 1119 | 3231 | 941 | 2769 | 764 | 2308 | 586 | 1846 | 483 | 1385 | 380 | 1338 | 369 | 1338 | 369 |
| 42                                | 4551           | 1651 | 4096 | 1313 | 3641 | 1133 | 3186 | 954 | 2731 | 774 | 2275 | 594 | 1820 | 489 | 1365 | 385 | 1320 | 374 | 1320 | 374 |
| 43                                | 4487           | 1672 | 4038 | 1330 | 3589 | 1148 | 3141 | 966 | 2692 | 784 | 2243 | 602 | 1795 | 496 | 1346 | 390 | 1301 | 379 | 1301 | 379 |
| 44                                | 4423           | 1694 | 3980 | 1347 | 3538 | 1163 | 3096 | 979 | 2654 | 794 | 2211 | 610 | 1769 | 502 | 1327 | 395 | 1283 | 384 | 1283 | 384 |
| 45                                | 3969           | 1562 | 3572 | 1243 | 3175 | 1073 | 2778 | 902 | 2381 | 732 | 1984 | 562 | 1588 | 463 | 1191 | 364 | 1151 | 354 | 1151 | 354 |
| 46                                | 3862           | 1562 | 3476 | 1243 | 3090 | 1073 | 2703 | 902 | 2317 | 732 | 1931 | 562 | 1545 | 463 | 1159 | 364 | 1120 | 354 | 1120 | 354 |

| Heating                           |                |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |
|-----------------------------------|----------------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor<br>Temperature<br>DB (°C) | Parts Load (%) |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |
|                                   | 100            |      | 90   |      | 80   |      | 70   |      | 60   |      | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                   | Q              | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                               | 2481           | 1055 | 2233 | 908  | 1985 | 792  | 1737 | 675  | 1489 | 559  | 1241 | 443 | 993  | 339 | 744  | 235 | 620  | 183 | 620  | 183 |
| -14                               | 2625           | 1073 | 2362 | 924  | 2100 | 805  | 1837 | 687  | 1575 | 569  | 1312 | 451 | 1050 | 345 | 787  | 239 | 656  | 186 | 656  | 186 |
| -13                               | 2768           | 1091 | 2491 | 939  | 2214 | 819  | 1937 | 699  | 1661 | 578  | 1384 | 458 | 1107 | 351 | 830  | 243 | 692  | 189 | 692  | 189 |
| -12                               | 2911           | 1109 | 2620 | 955  | 2329 | 833  | 2038 | 710  | 1747 | 588  | 1455 | 466 | 1164 | 356 | 873  | 247 | 728  | 192 | 728  | 192 |
| -11                               | 3054           | 1127 | 2749 | 971  | 2443 | 846  | 2138 | 722  | 1832 | 598  | 1527 | 474 | 1222 | 362 | 916  | 251 | 764  | 195 | 764  | 195 |
| -10                               | 3197           | 1146 | 2878 | 986  | 2558 | 860  | 2238 | 734  | 1918 | 607  | 1599 | 481 | 1279 | 368 | 959  | 255 | 799  | 199 | 799  | 199 |
| -9                                | 3340           | 1164 | 3006 | 1002 | 2672 | 874  | 2338 | 745  | 2004 | 617  | 1670 | 489 | 1336 | 374 | 1002 | 259 | 835  | 202 | 835  | 202 |
| -8                                | 3484           | 1182 | 3135 | 1018 | 2787 | 887  | 2438 | 757  | 2090 | 627  | 1742 | 496 | 1393 | 380 | 1045 | 263 | 871  | 205 | 871  | 205 |
| -7                                | 3627           | 1200 | 3264 | 1033 | 2901 | 901  | 2539 | 769  | 2176 | 636  | 1813 | 504 | 1451 | 386 | 1088 | 267 | 907  | 208 | 907  | 208 |
| -6                                | 3659           | 1214 | 3293 | 1045 | 2927 | 912  | 2561 | 778  | 2195 | 644  | 1829 | 510 | 1463 | 390 | 1098 | 270 | 915  | 210 | 915  | 210 |
| -5                                | 3690           | 1228 | 3321 | 1058 | 2952 | 922  | 2583 | 787  | 2214 | 651  | 1845 | 516 | 1476 | 395 | 1107 | 274 | 923  | 213 | 923  | 213 |
| -4                                | 3722           | 1243 | 3350 | 1070 | 2978 | 933  | 2606 | 796  | 2233 | 659  | 1861 | 522 | 1489 | 399 | 1117 | 277 | 931  | 215 | 931  | 215 |
| -3                                | 3754           | 1257 | 3379 | 1082 | 3003 | 943  | 2628 | 805  | 2252 | 666  | 1877 | 528 | 1502 | 404 | 1126 | 280 | 938  | 218 | 938  | 218 |
| -2                                | 3786           | 1271 | 3407 | 1094 | 3029 | 954  | 2650 | 814  | 2271 | 674  | 1893 | 534 | 1514 | 408 | 1136 | 283 | 946  | 220 | 946  | 220 |
| -1                                | 3818           | 1285 | 3436 | 1106 | 3054 | 965  | 2672 | 823  | 2291 | 681  | 1909 | 540 | 1527 | 413 | 1145 | 286 | 954  | 223 | 954  | 223 |
| 0                                 | 3849           | 1299 | 3464 | 1118 | 3080 | 975  | 2695 | 832  | 2310 | 689  | 1925 | 546 | 1540 | 417 | 1155 | 289 | 962  | 225 | 962  | 225 |
| 1                                 | 3881           | 1313 | 3493 | 1131 | 3105 | 986  | 2717 | 841  | 2329 | 696  | 1941 | 552 | 1552 | 422 | 1164 | 292 | 970  | 228 | 970  | 228 |
| 2                                 | 3913           | 1327 | 3522 | 1143 | 3130 | 996  | 2739 | 850  | 2348 | 704  | 1957 | 558 | 1565 | 427 | 1174 | 296 | 978  | 230 | 978  | 230 |
| 3                                 | 3977           | 1345 | 3579 | 1158 | 3182 | 1010 | 2784 | 862  | 2386 | 713  | 1989 | 565 | 1591 | 432 | 1193 | 300 | 994  | 233 | 994  | 233 |
| 4                                 | 4041           | 1363 | 3637 | 1174 | 3233 | 1023 | 2829 | 873  | 2425 | 723  | 2021 | 573 | 1616 | 438 | 1212 | 304 | 1010 | 236 | 1010 | 236 |
| 5                                 | 4105           | 1381 | 3695 | 1189 | 3284 | 1037 | 2874 | 884  | 2463 | 732  | 2053 | 580 | 1642 | 444 | 1232 | 307 | 1026 | 239 | 1026 | 239 |
| 6                                 | 5261           | 1477 | 4735 | 1271 | 4209 | 1109 | 3682 | 946  | 3156 | 783  | 2630 | 620 | 2104 | 475 | 1578 | 329 | 1315 | 256 | 1315 | 256 |
| 7                                 | 5400           | 1500 | 4860 | 1291 | 4320 | 1126 | 3780 | 961  | 3240 | 795  | 2700 | 630 | 2160 | 482 | 1620 | 334 | 1350 | 260 | 1350 | 260 |
| 8                                 | 5539           | 1523 | 4985 | 1311 | 4431 | 1143 | 3878 | 976  | 3324 | 808  | 2770 | 640 | 2216 | 489 | 1662 | 339 | 1385 | 264 | 1385 | 264 |
| 9                                 | 5679           | 1546 | 5111 | 1331 | 4543 | 1161 | 3975 | 990  | 3407 | 820  | 2839 | 650 | 2271 | 497 | 1704 | 344 | 1420 | 268 | 1420 | 268 |
| 10                                | 5818           | 1570 | 5236 | 1351 | 4654 | 1178 | 4073 | 1005 | 3491 | 832  | 2909 | 659 | 2327 | 504 | 1745 | 350 | 1455 | 272 | 1455 | 272 |
| 11                                | 5957           | 1593 | 5362 | 1371 | 4766 | 1196 | 4170 | 1020 | 3574 | 845  | 2979 | 669 | 2383 | 512 | 1787 | 355 | 1489 | 276 | 1489 | 276 |
| 12                                | 6097           | 1616 | 5487 | 1391 | 4877 | 1213 | 4268 | 1035 | 3658 | 857  | 3048 | 679 | 2439 | 519 | 1829 | 360 | 1524 | 280 | 1524 | 280 |
| 13                                | 6236           | 1639 | 5613 | 1411 | 4989 | 1231 | 4365 | 1050 | 3742 | 869  | 3118 | 689 | 2494 | 527 | 1871 | 365 | 1559 | 284 | 1559 | 284 |
| 14                                | 6375           | 1663 | 5738 | 1431 | 5100 | 1248 | 4463 | 1065 | 3825 | 882  | 3188 | 698 | 2550 | 534 | 1913 | 370 | 1594 | 288 | 1594 | 288 |
| 15                                | 6515           | 1686 | 5863 | 1451 | 5212 | 1265 | 4560 | 1080 | 3909 | 894  | 3257 | 708 | 2606 | 542 | 1954 | 375 | 1629 | 292 | 1629 | 292 |
| 16                                | 6654           | 1709 | 5989 | 1471 | 5323 | 1283 | 4658 | 1095 | 3993 | 906  | 3327 | 718 | 2662 | 549 | 1996 | 381 | 1664 | 296 | 1664 | 296 |
| 17                                | 6794           | 1732 | 6114 | 1491 | 5435 | 1300 | 4755 | 1109 | 4076 | 918  | 3397 | 728 | 2717 | 557 | 2038 | 386 | 1698 | 300 | 1698 | 300 |
| 18                                | 6933           | 1755 | 6240 | 1511 | 5546 | 1318 | 4853 | 1124 | 4160 | 931  | 3466 | 737 | 2773 | 564 | 2080 | 391 | 1733 | 304 | 1733 | 304 |
| 19                                | 7072           | 1779 | 6365 | 1531 | 5658 | 1335 | 4951 | 1139 | 4243 | 943  | 3536 | 747 | 2829 | 572 | 2122 | 396 | 1768 | 308 | 1768 | 308 |
| 20                                | 7212           | 1802 | 6490 | 1551 | 5769 | 1353 | 5048 | 1154 | 4327 | 955  | 3606 | 757 | 2885 | 579 | 2163 | 401 | 1803 | 312 | 1803 | 312 |
| 21                                | 7351           | 1825 | 6616 | 1571 | 5881 | 1370 | 5146 | 1169 | 4411 | 968  | 3675 | 767 | 2940 | 586 | 2205 | 406 | 1836 | 316 | 1836 | 316 |
| 22                                | 7490           | 1848 | 6741 | 1591 | 5992 | 1388 | 5243 | 1184 | 4494 | 980  | 3745 | 776 | 2996 | 594 | 2247 | 412 | 1873 | 320 | 1873 | 320 |
| 23                                | 7630           | 1872 | 6867 | 1611 | 6104 | 1405 | 5341 | 1199 | 4578 | 992  | 3815 | 786 | 3052 | 601 | 2289 | 417 | 1907 | 324 | 1907 | 324 |
| 24                                | 7769           | 1895 | 6992 | 1631 | 6215 | 1422 | 5438 | 1214 | 4661 | 1005 | 3885 | 796 | 3108 | 609 | 2331 | 422 | 1942 | 328 | 1942 | 328 |



Indoor : RAS-24E2KVG-E  
Outdoor : RAS-24E2AVG-E

| Operation range |   | Cooling |      | Heating |      |
|-----------------|---|---------|------|---------|------|
|                 |   | Q       | P    | Q       | P    |
| MINIMUM         | W | 1600    | 320  | 1600    | 290  |
| RATING          | W | 6500    | 2250 | 7000    | 2100 |
| MAXIMUM         | W | 7200    | 2600 | 8100    | 2550 |

| Cooling                        |  | Parts Load (%) |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |     |      |     |
|--------------------------------|--|----------------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|-----|
| Outdoor Temperature<br>DB (°C) |  | 100            |      | 90   |      | 80   |      | 70   |      | 60   |      | 50   |     | 40   |     | 30   |     | 20   |     | 10   |     |
|                                |  | Q              | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| 20                             |  | 7751           | 1766 | 6976 | 1495 | 6201 | 1294 | 5426 | 1093 | 4651 | 892  | 3876 | 691 | 3101 | 518 | 2325 | 344 | 1908 | 251 | 1908 | 251 |
| 21                             |  | 7668           | 1799 | 6901 | 1522 | 6134 | 1317 | 5367 | 1113 | 4601 | 908  | 3834 | 703 | 3067 | 527 | 2300 | 351 | 1887 | 256 | 1887 | 256 |
| 22                             |  | 7584           | 1831 | 6826 | 1549 | 6068 | 1341 | 5309 | 1133 | 4551 | 924  | 3792 | 716 | 3034 | 537 | 2275 | 357 | 1867 | 260 | 1867 | 260 |
| 23                             |  | 7501           | 1863 | 6751 | 1577 | 6001 | 1365 | 5251 | 1153 | 4501 | 941  | 3751 | 729 | 3000 | 546 | 2250 | 363 | 1846 | 265 | 1846 | 265 |
| 24                             |  | 7418           | 1895 | 6676 | 1604 | 5934 | 1388 | 5192 | 1173 | 4451 | 957  | 3709 | 741 | 2967 | 555 | 2225 | 370 | 1826 | 270 | 1826 | 270 |
| 25                             |  | 7334           | 1928 | 6601 | 1631 | 5867 | 1412 | 5134 | 1193 | 4401 | 973  | 3667 | 754 | 2934 | 565 | 2200 | 376 | 1805 | 274 | 1805 | 274 |
| 26                             |  | 7251           | 1960 | 6526 | 1658 | 5801 | 1435 | 5076 | 1212 | 4350 | 989  | 3625 | 766 | 2900 | 574 | 2175 | 382 | 1785 | 279 | 1785 | 279 |
| 27                             |  | 7167           | 1992 | 6451 | 1686 | 5734 | 1459 | 5017 | 1232 | 4300 | 1006 | 3584 | 779 | 2867 | 584 | 2150 | 388 | 1764 | 283 | 1764 | 283 |
| 28                             |  | 7084           | 2024 | 6376 | 1713 | 5667 | 1483 | 4959 | 1252 | 4250 | 1022 | 3542 | 792 | 2834 | 593 | 2125 | 395 | 1744 | 288 | 1744 | 288 |
| 29                             |  | 7001           | 2057 | 6300 | 1740 | 5600 | 1506 | 4900 | 1272 | 4200 | 1038 | 3500 | 804 | 2800 | 603 | 2100 | 401 | 1723 | 292 | 1723 | 292 |
| 30                             |  | 6917           | 2089 | 6225 | 1768 | 5534 | 1530 | 4842 | 1292 | 4150 | 1055 | 3459 | 817 | 2767 | 612 | 2075 | 407 | 1703 | 297 | 1703 | 297 |
| 31                             |  | 6834           | 2121 | 6150 | 1795 | 5467 | 1554 | 4784 | 1312 | 4100 | 1071 | 3417 | 830 | 2733 | 622 | 2050 | 414 | 1682 | 302 | 1682 | 302 |
| 32                             |  | 6750           | 2153 | 6075 | 1822 | 5400 | 1577 | 4725 | 1332 | 4050 | 1087 | 3375 | 842 | 2700 | 631 | 2025 | 420 | 1662 | 306 | 1662 | 306 |
| 33                             |  | 6667           | 2186 | 6000 | 1849 | 5333 | 1601 | 4667 | 1352 | 4000 | 1103 | 3333 | 855 | 2667 | 640 | 2000 | 426 | 1641 | 311 | 1641 | 311 |
| 34                             |  | 6583           | 2218 | 5925 | 1877 | 5267 | 1624 | 4608 | 1372 | 3950 | 1120 | 3292 | 867 | 2633 | 650 | 1975 | 432 | 1621 | 315 | 1621 | 315 |
| 35                             |  | 6500           | 2250 | 5850 | 1904 | 5200 | 1648 | 4550 | 1392 | 3900 | 1136 | 3250 | 880 | 2600 | 659 | 1950 | 439 | 1600 | 320 | 1600 | 320 |
| 36                             |  | 6417           | 2282 | 5775 | 1931 | 5133 | 1672 | 4492 | 1412 | 3850 | 1152 | 3208 | 893 | 2567 | 669 | 1925 | 445 | 1579 | 325 | 1579 | 325 |
| 37                             |  | 6333           | 2315 | 5700 | 1959 | 5067 | 1695 | 4433 | 1432 | 3800 | 1169 | 3167 | 905 | 2533 | 678 | 1900 | 451 | 1559 | 329 | 1559 | 329 |
| 38                             |  | 6250           | 2347 | 5625 | 1986 | 5000 | 1719 | 4375 | 1452 | 3750 | 1185 | 3125 | 918 | 2500 | 688 | 1875 | 458 | 1538 | 334 | 1538 | 334 |
| 39                             |  | 6166           | 2379 | 5550 | 2013 | 4933 | 1743 | 4316 | 1472 | 3700 | 1201 | 3083 | 930 | 2467 | 697 | 1850 | 464 | 1518 | 338 | 1518 | 338 |
| 40                             |  | 6083           | 2411 | 5475 | 2041 | 4866 | 1766 | 4258 | 1492 | 3650 | 1217 | 3041 | 943 | 2433 | 707 | 1825 | 470 | 1497 | 343 | 1497 | 343 |
| 41                             |  | 6000           | 2444 | 5400 | 2068 | 4800 | 1790 | 4200 | 1512 | 3600 | 1234 | 3000 | 956 | 2400 | 716 | 1800 | 477 | 1477 | 348 | 1477 | 348 |
| 42                             |  | 5916           | 2476 | 5324 | 2095 | 4733 | 1813 | 4141 | 1532 | 3550 | 1250 | 2958 | 968 | 2366 | 726 | 1775 | 483 | 1456 | 352 | 1456 | 352 |
| 43                             |  | 5833           | 2508 | 5249 | 2122 | 4666 | 1837 | 4083 | 1552 | 3500 | 1266 | 2916 | 981 | 2333 | 735 | 1750 | 489 | 1436 | 357 | 1436 | 357 |
| 44                             |  | 5750           | 2521 | 5135 | 2133 | 4565 | 1847 | 3994 | 1560 | 3423 | 1273 | 2853 | 986 | 2282 | 739 | 1712 | 492 | 1404 | 359 | 1404 | 359 |
| 45                             |  | 5366           | 2343 | 4829 | 1982 | 4293 | 1716 | 3756 | 1449 | 3219 | 1183 | 2683 | 916 | 2146 | 687 | 1610 | 457 | 1321 | 333 | 1321 | 333 |
| 46                             |  | 5221           | 2343 | 4699 | 1982 | 4177 | 1716 | 3655 | 1449 | 3133 | 1183 | 2611 | 916 | 2089 | 687 | 1566 | 457 | 1285 | 333 | 1285 | 333 |

| Heating                        |       | Parts Load (%) |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |     |
|--------------------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|------|-----|------|-----|
| Outdoor Temperature<br>DB (°C) | 100   |                | 90   |      | 80   |      | 70   |      | 60   |      | 50   |      | 40   |     | 30   |     | 20   |     | 10   |     |
|                                | Q     | P              | Q    | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P    | Q    | P   | Q    | P   | Q    | P   | Q    | P   |
| -15                            | 3293  | 1487           | 2963 | 1266 | 2634 | 1100 | 2305 | 934  | 1976 | 768  | 1646 | 602  | 1317 | 456 | 988  | 310 | 753  | 205 | 753  | 205 |
| -14                            | 3482  | 1510           | 3134 | 1286 | 2785 | 1117 | 2437 | 949  | 2089 | 780  | 1741 | 611  | 1393 | 463 | 1045 | 314 | 796  | 209 | 796  | 209 |
| -13                            | 3671  | 1533           | 3304 | 1306 | 2937 | 1134 | 2570 | 963  | 2203 | 792  | 1835 | 621  | 1468 | 470 | 1101 | 319 | 839  | 212 | 839  | 212 |
| -12                            | 3860  | 1556           | 3474 | 1326 | 3088 | 1152 | 2702 | 978  | 2316 | 804  | 1930 | 630  | 1544 | 477 | 1158 | 324 | 882  | 215 | 882  | 215 |
| -11                            | 4049  | 1580           | 3644 | 1345 | 3239 | 1169 | 2834 | 992  | 2429 | 816  | 2025 | 639  | 1620 | 484 | 1215 | 329 | 926  | 218 | 926  | 218 |
| -10                            | 4238  | 1603           | 3814 | 1365 | 3391 | 1186 | 2967 | 1007 | 2543 | 828  | 2119 | 649  | 1695 | 491 | 1271 | 334 | 969  | 221 | 969  | 221 |
| -9                             | 4427  | 1626           | 3985 | 1385 | 3542 | 1203 | 3099 | 1022 | 2656 | 840  | 2214 | 658  | 1771 | 498 | 1328 | 339 | 1012 | 225 | 1012 | 225 |
| -8                             | 4616  | 1649           | 4155 | 1405 | 3693 | 1220 | 3231 | 1036 | 2770 | 852  | 2308 | 668  | 1847 | 506 | 1385 | 344 | 1055 | 228 | 1055 | 228 |
| -7                             | 4805  | 1673           | 4325 | 1424 | 3844 | 1238 | 3364 | 1051 | 2883 | 864  | 2403 | 677  | 1922 | 513 | 1442 | 348 | 1098 | 231 | 1098 | 231 |
| -6                             | 4835  | 1693           | 4352 | 1442 | 3868 | 1253 | 3385 | 1064 | 2901 | 875  | 2418 | 685  | 1934 | 519 | 1451 | 353 | 1105 | 234 | 1105 | 234 |
| -5                             | 4865  | 1714           | 4378 | 1460 | 3892 | 1268 | 3405 | 1077 | 2919 | 885  | 2432 | 694  | 1946 | 525 | 1459 | 357 | 1112 | 237 | 1112 | 237 |
| -4                             | 4894  | 1735           | 4405 | 1477 | 3916 | 1283 | 3426 | 1090 | 2937 | 896  | 2447 | 702  | 1958 | 532 | 1468 | 361 | 1119 | 240 | 1119 | 240 |
| -3                             | 4924  | 1755           | 4432 | 1495 | 3939 | 1299 | 3447 | 1103 | 2954 | 907  | 2462 | 710  | 1970 | 538 | 1477 | 366 | 1126 | 242 | 1126 | 242 |
| -2                             | 4954  | 1776           | 4458 | 1512 | 3963 | 1314 | 3468 | 1116 | 2972 | 917  | 2477 | 719  | 1982 | 544 | 1486 | 370 | 1132 | 245 | 1132 | 245 |
| -1                             | 4983  | 1796           | 4485 | 1530 | 3987 | 1329 | 3488 | 1129 | 2990 | 928  | 2492 | 727  | 1993 | 551 | 1495 | 374 | 1139 | 248 | 1139 | 248 |
| 0                              | 5013  | 1817           | 4512 | 1548 | 4011 | 1345 | 3509 | 1142 | 3008 | 939  | 2507 | 735  | 2005 | 557 | 1504 | 378 | 1146 | 251 | 1146 | 251 |
| 1                              | 5043  | 1838           | 4539 | 1565 | 4034 | 1360 | 3530 | 1155 | 3026 | 949  | 2521 | 744  | 2017 | 563 | 1513 | 383 | 1153 | 254 | 1153 | 254 |
| 2                              | 5072  | 1858           | 4565 | 1583 | 4058 | 1375 | 3551 | 1167 | 3043 | 960  | 2536 | 752  | 2029 | 570 | 1522 | 387 | 1159 | 257 | 1159 | 257 |
| 3                              | 5156  | 1883           | 4640 | 1604 | 4124 | 1394 | 3609 | 1183 | 3093 | 973  | 2578 | 762  | 2062 | 577 | 1547 | 392 | 1178 | 260 | 1178 | 260 |
| 4                              | 5239  | 1908           | 4715 | 1625 | 4191 | 1412 | 3667 | 1199 | 3143 | 986  | 2619 | 772  | 2095 | 585 | 1572 | 397 | 1197 | 264 | 1197 | 264 |
| 5                              | 5322  | 1933           | 4790 | 1647 | 4257 | 1431 | 3725 | 1215 | 3193 | 999  | 2661 | 783  | 2129 | 593 | 1597 | 403 | 1216 | 267 | 1216 | 267 |
| 6                              | 6819  | 2067           | 6137 | 1761 | 5455 | 1530 | 4774 | 1299 | 4092 | 1068 | 3410 | 837  | 2728 | 634 | 2046 | 431 | 1559 | 286 | 1559 | 286 |
| 7                              | 7000  | 2100           | 6300 | 1789 | 5600 | 1554 | 4900 | 1319 | 4200 | 1085 | 3500 | 850  | 2800 | 644 | 2100 | 437 | 1600 | 290 | 1600 | 290 |
| 8                              | 7181  | 2133           | 6463 | 1816 | 5745 | 1578 | 5026 | 1340 | 4308 | 1101 | 3590 | 863  | 2872 | 654 | 2154 | 444 | 1641 | 294 | 1641 | 294 |
| 9                              | 7361  | 2165           | 6625 | 1844 | 5889 | 1602 | 5153 | 1360 | 4417 | 1118 | 3681 | 876  | 2945 | 664 | 2208 | 451 | 1683 | 299 | 1683 | 299 |
| 10                             | 7542  | 2198           | 6788 | 1872 | 6034 | 1626 | 5279 | 1381 | 4525 | 1135 | 3771 | 889  | 3017 | 674 | 2263 | 458 | 1724 | 303 | 1724 | 303 |
| 11                             | 7723  | 2230           | 6950 | 1899 | 6178 | 1650 | 5406 | 1401 | 4634 | 1152 | 3861 | 903  | 3089 | 684 | 2317 | 464 | 1765 | 308 | 1765 | 308 |
| 12                             | 7903  | 2263           | 7113 | 1927 | 6323 | 1674 | 5532 | 1421 | 4742 | 1169 | 3952 | 916  | 3161 | 694 | 2371 | 471 | 1806 | 312 | 1806 | 312 |
| 13                             | 8084  | 2295           | 7275 | 1955 | 6467 | 1698 | 5659 | 1442 | 4850 | 1185 | 4042 | 929  | 3234 | 703 | 2425 | 478 | 1848 | 317 | 1848 | 317 |
| 14                             | 8265  | 2328           | 7438 | 1982 | 6612 | 1722 | 5785 | 1462 | 4959 | 1202 | 4132 | 942  | 3306 | 713 | 2479 | 485 | 1889 | 321 | 1889 | 321 |
| 15                             | 8445  | 2360           | 7601 | 2010 | 6756 | 1746 | 5912 | 1483 | 5067 | 1219 | 4223 | 955  | 3378 | 723 | 2534 | 492 | 1930 | 326 | 1930 | 326 |
| 16                             | 8626  | 2393           | 7763 | 2038 | 6901 | 1770 | 6038 | 1503 | 5175 | 1236 | 4313 | 968  | 3450 | 733 | 2588 | 498 | 1972 | 330 | 1972 | 330 |
| 17                             | 8806  | 2425           | 7926 | 2065 | 7045 | 1794 | 6165 | 1524 | 5284 | 1253 | 4403 | 982  | 3523 | 743 | 2642 | 505 | 2013 | 335 | 2013 | 335 |
| 18                             | 8987  | 2458           | 8088 | 2093 | 7190 | 1819 | 6291 | 1544 | 5392 | 1269 | 4494 | 995  | 3595 | 753 | 2696 | 512 | 2054 | 339 | 2054 | 339 |
| 19                             | 9168  | 2490           | 8251 | 2121 | 7334 | 1843 | 6417 | 1564 | 5501 | 1286 | 4584 | 1008 | 3667 | 763 | 2750 | 519 | 2095 | 344 | 2095 | 344 |
| 20                             | 9348  | 2523           | 8414 | 2149 | 7479 | 1867 | 6544 | 1585 | 5609 | 1303 | 4674 | 1021 | 3739 | 773 | 2805 | 525 | 2137 | 348 | 2137 | 348 |
| 21                             | 9529  | 2555           | 8576 | 2176 | 7623 | 1891 | 6670 | 1605 | 5717 | 1320 | 4765 | 1034 | 3812 | 783 | 2859 | 532 | 2178 | 353 | 2178 | 353 |
| 22                             | 9710  | 2588           | 8739 | 2204 | 7768 | 1915 | 6797 | 1626 | 5826 | 1337 | 4855 | 1047 | 3884 | 793 | 2913 | 539 | 2219 | 357 | 2219 | 357 |
| 23                             | 9890  | 2620           | 8901 | 2232 | 7912 | 1939 | 6923 | 1646 | 5934 | 1353 | 4945 | 1061 | 3956 | 803 | 2967 | 546 | 2261 | 362 | 2261 | 362 |
| 24                             | 10071 | 2653           | 9064 | 2259 | 8057 | 1963 | 7050 | 1667 | 6043 | 1370 | 5035 | 1074 | 4028 | 813 | 3021 | 552 | 2302 | 366 | 2302 | 366 |

## 10. Performance Characteristic

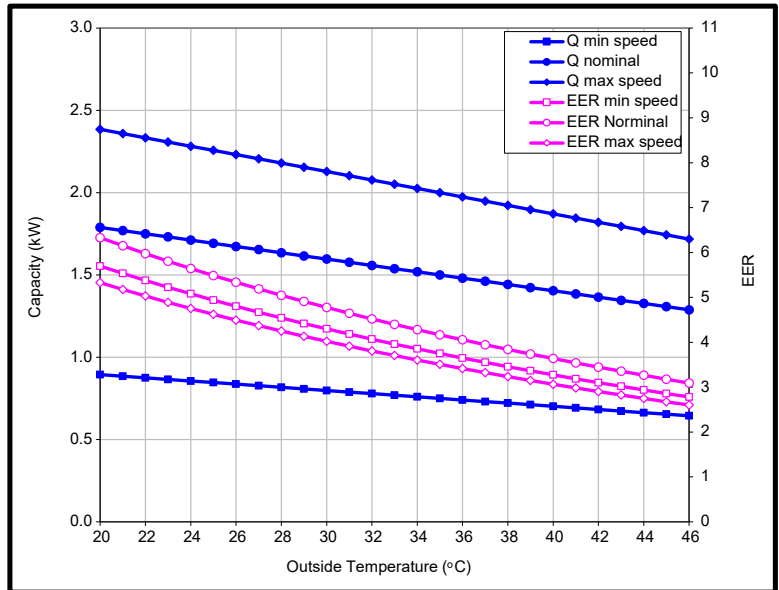
Model : RAS-B05E2KVG-E / RAS-05E2AVG-E

Product specification :

| Condition                                                          |       | Capacity (kW) | Power (kW) | EER/COP |
|--------------------------------------------------------------------|-------|---------------|------------|---------|
| Cooling JIS<br>In: 27 °C DB/19 °C WB<br>Out: 35 °C DB/24 °C WB     | Min   | 0.75          | 0.20       | 3.75    |
|                                                                    | Rated | 1.50          | 0.36       | 4.17    |
|                                                                    | Max   | 2.00          | 0.57       | 3.51    |
| Heating JIS<br>In: 20 °C DB/15 °C WB<br>Out: 7 °C DB/6 °C WB       | Min   | 0.80          | 0.16       | 5.00    |
|                                                                    | Rated | 2.00          | 0.47       | 4.26    |
|                                                                    | Max   | 3.00          | 0.85       | 3.53    |
| Heating Low Temp.<br>In: 20 °C DB/15 °C WB<br>Out: 2 °C DB/1 °C WB | Max   | 1.70          | 0.80       | 2.13    |

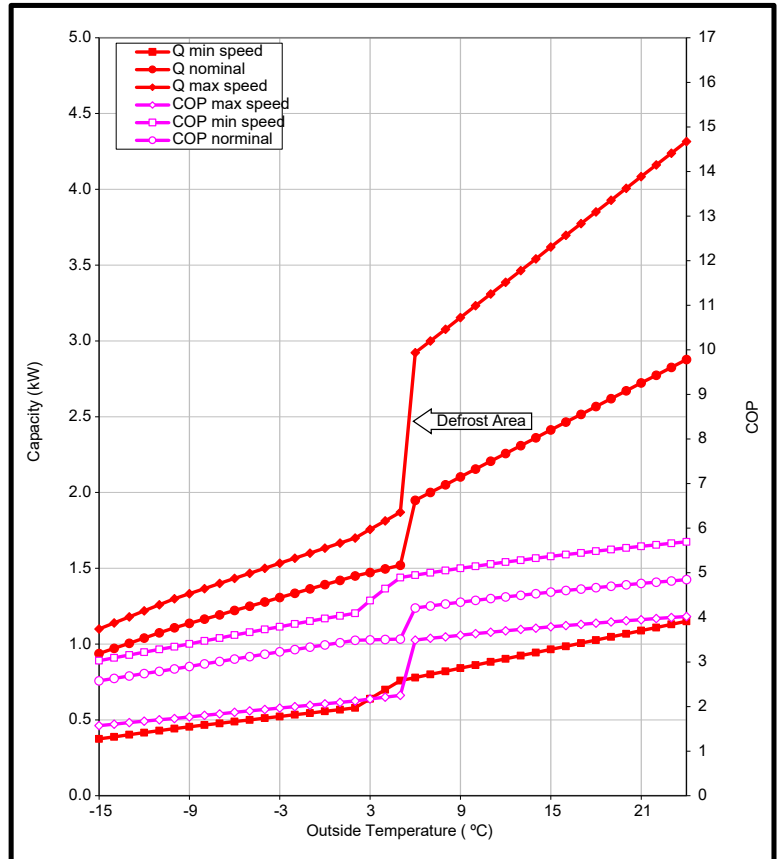
Cooling performance characteristic :

| Outside Temp (°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|-------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                   | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                | 0.89          | 0.16       | 5.70    | 1.79             | 0.28       | 6.33    | 2.39          | 0.45       | 5.33    |
| 21                | 0.88          | 0.16       | 5.53    | 1.77             | 0.29       | 6.15    | 2.36          | 0.46       | 5.18    |
| 22                | 0.88          | 0.16       | 5.38    | 1.75             | 0.29       | 5.98    | 2.33          | 0.46       | 5.03    |
| 23                | 0.87          | 0.17       | 5.23    | 1.73             | 0.30       | 5.81    | 2.31          | 0.47       | 4.89    |
| 24                | 0.86          | 0.17       | 5.08    | 1.71             | 0.30       | 5.64    | 2.28          | 0.48       | 4.75    |
| 25                | 0.85          | 0.17       | 4.94    | 1.69             | 0.31       | 5.49    | 2.26          | 0.49       | 4.62    |
| 26                | 0.84          | 0.17       | 4.80    | 1.67             | 0.31       | 5.34    | 2.23          | 0.50       | 4.49    |
| 27                | 0.83          | 0.18       | 4.67    | 1.65             | 0.32       | 5.19    | 2.21          | 0.50       | 4.37    |
| 28                | 0.82          | 0.18       | 4.54    | 1.63             | 0.32       | 5.05    | 2.18          | 0.51       | 4.25    |
| 29                | 0.81          | 0.18       | 4.42    | 1.62             | 0.33       | 4.91    | 2.15          | 0.52       | 4.13    |
| 30                | 0.80          | 0.19       | 4.30    | 1.60             | 0.33       | 4.78    | 2.13          | 0.53       | 4.02    |
| 31                | 0.79          | 0.19       | 4.18    | 1.58             | 0.34       | 4.65    | 2.10          | 0.54       | 3.91    |
| 32                | 0.78          | 0.19       | 4.07    | 1.56             | 0.34       | 4.52    | 2.08          | 0.55       | 3.81    |
| 33                | 0.77          | 0.19       | 3.96    | 1.54             | 0.35       | 4.40    | 2.05          | 0.55       | 3.71    |
| 34                | 0.76          | 0.20       | 3.85    | 1.52             | 0.35       | 4.28    | 2.03          | 0.56       | 3.61    |
| 35                | 0.75          | 0.20       | 3.75    | 1.50             | 0.36       | 4.17    | 2.00          | 0.57       | 3.51    |
| 36                | 0.74          | 0.20       | 3.65    | 1.48             | 0.37       | 4.06    | 1.97          | 0.58       | 3.41    |
| 37                | 0.73          | 0.21       | 3.55    | 1.46             | 0.37       | 3.95    | 1.95          | 0.59       | 3.32    |
| 38                | 0.72          | 0.21       | 3.46    | 1.44             | 0.38       | 3.84    | 1.92          | 0.59       | 3.23    |
| 39                | 0.71          | 0.21       | 3.36    | 1.42             | 0.38       | 3.74    | 1.90          | 0.60       | 3.15    |
| 40                | 0.70          | 0.21       | 3.27    | 1.40             | 0.39       | 3.64    | 1.87          | 0.61       | 3.06    |
| 41                | 0.69          | 0.22       | 3.19    | 1.38             | 0.39       | 3.54    | 1.85          | 0.62       | 2.98    |
| 42                | 0.68          | 0.22       | 3.10    | 1.37             | 0.40       | 3.45    | 1.82          | 0.63       | 2.90    |
| 43                | 0.67          | 0.22       | 3.02    | 1.35             | 0.40       | 3.35    | 1.79          | 0.64       | 2.82    |
| 44                | 0.66          | 0.23       | 2.94    | 1.33             | 0.41       | 3.26    | 1.77          | 0.64       | 2.75    |
| 45                | 0.65          | 0.23       | 2.86    | 1.31             | 0.41       | 3.18    | 1.74          | 0.65       | 2.68    |
| 46                | 0.64          | 0.23       | 2.78    | 1.29             | 0.42       | 3.09    | 1.72          | 0.66       | 2.60    |



Heating performance characteristic :

| Outside Temp (°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|-------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                   | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15               | 0.38          | 0.12       | 3.03    | 0.94             | 0.36       | 2.58    | 1.10          | 0.70       | 1.57    |
| -14               | 0.39          | 0.13       | 3.09    | 0.97             | 0.37       | 2.63    | 1.14          | 0.71       | 1.61    |
| -13               | 0.40          | 0.13       | 3.16    | 1.01             | 0.37       | 2.69    | 1.18          | 0.72       | 1.64    |
| -12               | 0.42          | 0.13       | 3.22    | 1.04             | 0.38       | 2.74    | 1.22          | 0.73       | 1.67    |
| -11               | 0.43          | 0.13       | 3.28    | 1.07             | 0.38       | 2.79    | 1.26          | 0.74       | 1.70    |
| -10               | 0.44          | 0.13       | 3.34    | 1.11             | 0.39       | 2.84    | 1.30          | 0.75       | 1.73    |
| -9                | 0.45          | 0.13       | 3.41    | 1.14             | 0.39       | 2.90    | 1.33          | 0.75       | 1.77    |
| -8                | 0.47          | 0.13       | 3.47    | 1.17             | 0.39       | 2.96    | 1.37          | 0.76       | 1.80    |
| -7                | 0.48          | 0.13       | 3.54    | 1.19             | 0.40       | 3.01    | 1.40          | 0.76       | 1.84    |
| -6                | 0.49          | 0.14       | 3.60    | 1.22             | 0.40       | 3.07    | 1.43          | 0.77       | 1.87    |
| -5                | 0.50          | 0.14       | 3.67    | 1.25             | 0.40       | 3.12    | 1.47          | 0.77       | 1.90    |
| -4                | 0.51          | 0.14       | 3.73    | 1.28             | 0.40       | 3.17    | 1.50          | 0.78       | 1.94    |
| -3                | 0.52          | 0.14       | 3.79    | 1.31             | 0.41       | 3.23    | 1.53          | 0.78       | 1.97    |
| -2                | 0.53          | 0.14       | 3.85    | 1.34             | 0.41       | 3.28    | 1.57          | 0.78       | 2.00    |
| -1                | 0.55          | 0.14       | 3.91    | 1.36             | 0.41       | 3.33    | 1.60          | 0.79       | 2.03    |
| 0                 | 0.56          | 0.14       | 3.98    | 1.39             | 0.41       | 3.38    | 1.63          | 0.79       | 2.06    |
| 1                 | 0.57          | 0.14       | 4.03    | 1.42             | 0.41       | 3.43    | 1.67          | 0.80       | 2.09    |
| 2                 | 0.58          | 0.14       | 4.09    | 1.45             | 0.42       | 3.48    | 1.70          | 0.80       | 2.13    |
| 3                 | 0.64          | 0.15       | 4.38    | 1.47             | 0.42       | 3.49    | 1.76          | 0.81       | 2.17    |
| 4                 | 0.70          | 0.15       | 4.64    | 1.50             | 0.43       | 3.50    | 1.81          | 0.82       | 2.21    |
| 5                 | 0.76          | 0.16       | 4.89    | 1.52             | 0.43       | 3.51    | 1.87          | 0.83       | 2.25    |
| 6                 | 0.78          | 0.16       | 4.95    | 1.95             | 0.46       | 4.21    | 2.92          | 0.84       | 3.49    |
| 7                 | 0.80          | 0.16       | 5.00    | 2.00             | 0.47       | 4.26    | 3.00          | 0.85       | 3.53    |
| 8                 | 0.82          | 0.16       | 5.05    | 2.05             | 0.48       | 4.30    | 3.08          | 0.86       | 3.57    |
| 9                 | 0.84          | 0.16       | 5.10    | 2.10             | 0.48       | 4.34    | 3.15          | 0.88       | 3.60    |
| 10                | 0.86          | 0.17       | 5.15    | 2.15             | 0.49       | 4.38    | 3.23          | 0.89       | 3.63    |
| 11                | 0.88          | 0.17       | 5.19    | 2.21             | 0.50       | 4.42    | 3.31          | 0.90       | 3.67    |
| 12                | 0.90          | 0.17       | 5.24    | 2.26             | 0.51       | 4.46    | 3.39          | 0.92       | 3.70    |
| 13                | 0.92          | 0.17       | 5.28    | 2.31             | 0.51       | 4.50    | 3.46          | 0.93       | 3.73    |
| 14                | 0.94          | 0.18       | 5.33    | 2.36             | 0.52       | 4.53    | 3.54          | 0.94       | 3.76    |
| 15                | 0.97          | 0.18       | 5.37    | 2.41             | 0.53       | 4.57    | 3.62          | 0.96       | 3.79    |
| 16                | 0.99          | 0.18       | 5.41    | 2.46             | 0.54       | 4.60    | 3.70          | 0.97       | 3.82    |
| 17                | 1.01          | 0.18       | 5.45    | 2.52             | 0.54       | 4.64    | 3.77          | 0.98       | 3.84    |
| 18                | 1.03          | 0.19       | 5.49    | 2.57             | 0.55       | 4.67    | 3.85          | 0.99       | 3.87    |
| 19                | 1.05          | 0.19       | 5.52    | 2.62             | 0.56       | 4.70    | 3.93          | 1.01       | 3.90    |
| 20                | 1.07          | 0.19       | 5.56    | 2.67             | 0.56       | 4.73    | 4.01          | 1.02       | 3.92    |
| 21                | 1.09          | 0.19       | 5.59    | 2.72             | 0.57       | 4.76    | 4.08          | 1.03       | 3.95    |
| 22                | 1.11          | 0.20       | 5.63    | 2.77             | 0.58       | 4.79    | 4.16          | 1.05       | 3.97    |
| 23                | 1.13          | 0.20       | 5.66    | 2.83             | 0.59       | 4.82    | 4.24          | 1.06       | 4.00    |
| 24                | 1.15          | 0.20       | 5.69    | 2.88             | 0.59       | 4.85    | 4.32          | 1.07       | 4.02    |



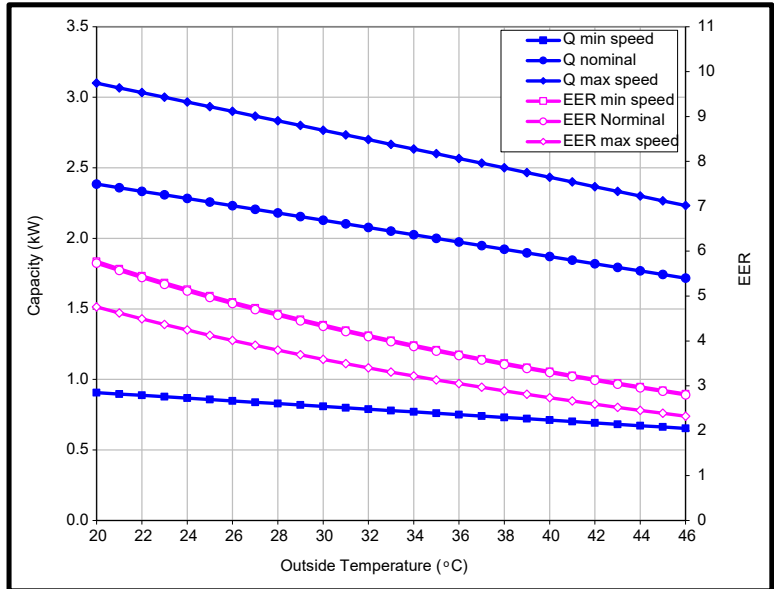
## Model : RAS-B07E2KVG-E/RAS-07E2AVG-E

Product specification :

| Condition                                                          |       | Capacity (kW) | Power (kW) | EER/COP |
|--------------------------------------------------------------------|-------|---------------|------------|---------|
| Cooling JIS<br>In: 27 °C DB/19 °C WB<br>Out: 35 °C DB/24 °C WB     | Min   | 0.76          | 0.20       | 3.80    |
|                                                                    | Rated | 2.00          | 0.53       | 3.77    |
|                                                                    | Max   | 2.60          | 0.83       | 3.13    |
| Heating JIS<br>In: 20 °C DB/15 °C WB<br>Out: 7 °C DB/6 °C WB       | Min   | 0.82          | 0.16       | 5.13    |
|                                                                    | Rated | 2.50          | 0.64       | 3.91    |
|                                                                    | Max   | 3.30          | 0.94       | 3.51    |
| Heating Low Temp.<br>In: 20 °C DB/15 °C WB<br>Out: 2 °C DB/1 °C WB |       | 1.90          | 0.85       | 2.24    |

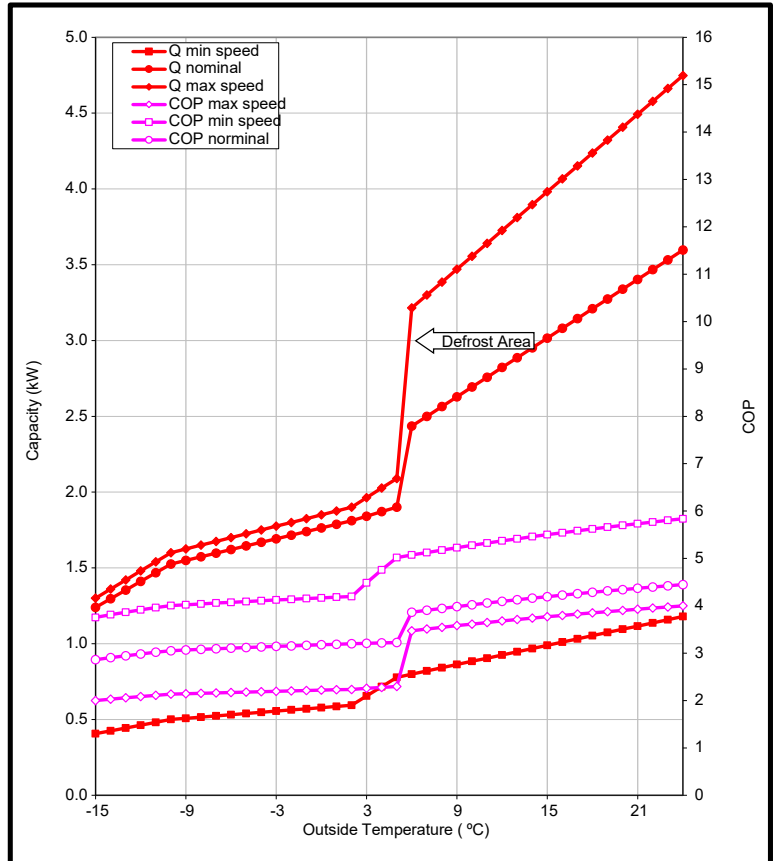
Cooling performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                   | 0.91          | 0.16       | 5.77    | 2.39             | 0.42       | 5.73    | 3.10          | 0.65       | 4.76    |
| 21                   | 0.90          | 0.16       | 5.61    | 2.36             | 0.42       | 5.57    | 3.07          | 0.66       | 4.62    |
| 22                   | 0.89          | 0.16       | 5.45    | 2.33             | 0.43       | 5.41    | 3.03          | 0.68       | 4.49    |
| 23                   | 0.88          | 0.17       | 5.30    | 2.31             | 0.44       | 5.26    | 3.00          | 0.69       | 4.37    |
| 24                   | 0.87          | 0.17       | 5.15    | 2.28             | 0.45       | 5.11    | 2.97          | 0.70       | 4.24    |
| 25                   | 0.86          | 0.17       | 5.01    | 2.26             | 0.45       | 4.97    | 2.93          | 0.71       | 4.13    |
| 26                   | 0.85          | 0.17       | 4.87    | 2.23             | 0.46       | 4.83    | 2.90          | 0.72       | 4.01    |
| 27                   | 0.84          | 0.18       | 4.73    | 2.21             | 0.47       | 4.70    | 2.87          | 0.73       | 3.90    |
| 28                   | 0.83          | 0.18       | 4.60    | 2.18             | 0.48       | 4.57    | 2.83          | 0.75       | 3.79    |
| 29                   | 0.82          | 0.18       | 4.48    | 2.15             | 0.48       | 4.45    | 2.80          | 0.76       | 3.69    |
| 30                   | 0.81          | 0.19       | 4.36    | 2.13             | 0.49       | 4.33    | 2.77          | 0.77       | 3.59    |
| 31                   | 0.80          | 0.19       | 4.24    | 2.10             | 0.50       | 4.21    | 2.73          | 0.78       | 3.49    |
| 32                   | 0.79          | 0.19       | 4.12    | 2.08             | 0.51       | 4.09    | 2.70          | 0.79       | 3.40    |
| 33                   | 0.78          | 0.19       | 4.01    | 2.05             | 0.51       | 3.98    | 2.67          | 0.81       | 3.31    |
| 34                   | 0.77          | 0.20       | 3.90    | 2.03             | 0.52       | 3.88    | 2.63          | 0.82       | 3.22    |
| 35                   | 0.76          | 0.20       | 3.80    | 2.00             | 0.53       | 3.77    | 2.60          | 0.83       | 3.13    |
| 36                   | 0.75          | 0.20       | 3.70    | 1.97             | 0.54       | 3.67    | 2.57          | 0.84       | 3.05    |
| 37                   | 0.74          | 0.21       | 3.60    | 1.95             | 0.55       | 3.57    | 2.53          | 0.85       | 2.97    |
| 38                   | 0.73          | 0.21       | 3.50    | 1.92             | 0.55       | 3.48    | 2.50          | 0.87       | 2.89    |
| 39                   | 0.72          | 0.21       | 3.41    | 1.90             | 0.56       | 3.39    | 2.47          | 0.88       | 2.81    |
| 40                   | 0.71          | 0.21       | 3.32    | 1.87             | 0.57       | 3.30    | 2.43          | 0.89       | 2.74    |
| 41                   | 0.70          | 0.22       | 3.23    | 1.85             | 0.58       | 3.21    | 2.40          | 0.90       | 2.66    |
| 42                   | 0.69          | 0.22       | 3.14    | 1.82             | 0.58       | 3.12    | 2.37          | 0.91       | 2.59    |
| 43                   | 0.68          | 0.22       | 3.06    | 1.79             | 0.59       | 3.04    | 2.33          | 0.93       | 2.52    |
| 44                   | 0.67          | 0.23       | 2.98    | 1.77             | 0.60       | 2.96    | 2.30          | 0.94       | 2.45    |
| 45                   | 0.66          | 0.23       | 2.90    | 1.74             | 0.61       | 2.88    | 2.27          | 0.95       | 2.39    |
| 46                   | 0.65          | 0.23       | 2.82    | 1.72             | 0.61       | 2.80    | 2.23          | 0.96       | 2.32    |



Heating performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15                  | 0.41          | 0.11       | 3.75    | 1.24             | 0.43       | 2.86    | 1.30          | 0.65       | 2.00    |
| -14                  | 0.43          | 0.11       | 3.81    | 1.30             | 0.45       | 2.90    | 1.36          | 0.67       | 2.03    |
| -13                  | 0.44          | 0.11       | 3.86    | 1.35             | 0.46       | 2.94    | 1.42          | 0.69       | 2.06    |
| -12                  | 0.46          | 0.12       | 3.91    | 1.41             | 0.47       | 2.98    | 1.48          | 0.71       | 2.08    |
| -11                  | 0.48          | 0.12       | 3.96    | 1.47             | 0.49       | 3.02    | 1.54          | 0.73       | 2.11    |
| -10                  | 0.50          | 0.12       | 4.01    | 1.53             | 0.50       | 3.05    | 1.60          | 0.75       | 2.13    |
| -9                   | 0.51          | 0.13       | 4.02    | 1.55             | 0.51       | 3.07    | 1.63          | 0.76       | 2.14    |
| -8                   | 0.52          | 0.13       | 4.04    | 1.57             | 0.51       | 3.08    | 1.65          | 0.77       | 2.15    |
| -7                   | 0.52          | 0.13       | 4.06    | 1.60             | 0.52       | 3.09    | 1.68          | 0.78       | 2.16    |
| -6                   | 0.53          | 0.13       | 4.07    | 1.62             | 0.52       | 3.11    | 1.70          | 0.78       | 2.17    |
| -5                   | 0.54          | 0.13       | 4.09    | 1.64             | 0.53       | 3.12    | 1.73          | 0.79       | 2.18    |
| -4                   | 0.55          | 0.13       | 4.11    | 1.67             | 0.53       | 3.13    | 1.75          | 0.80       | 2.19    |
| -3                   | 0.56          | 0.13       | 4.12    | 1.69             | 0.54       | 3.14    | 1.78          | 0.81       | 2.20    |
| -2                   | 0.56          | 0.14       | 4.14    | 1.72             | 0.54       | 3.15    | 1.80          | 0.82       | 2.20    |
| -1                   | 0.57          | 0.14       | 4.15    | 1.74             | 0.55       | 3.17    | 1.83          | 0.83       | 2.21    |
| 0                    | 0.58          | 0.14       | 4.17    | 1.76             | 0.56       | 3.18    | 1.85          | 0.83       | 2.22    |
| 1                    | 0.59          | 0.14       | 4.18    | 1.79             | 0.56       | 3.19    | 1.88          | 0.84       | 2.23    |
| 2                    | 0.59          | 0.14       | 4.20    | 1.81             | 0.57       | 3.20    | 1.90          | 0.85       | 2.24    |
| 3                    | 0.66          | 0.15       | 4.49    | 1.84             | 0.57       | 3.21    | 1.96          | 0.87       | 2.26    |
| 4                    | 0.72          | 0.15       | 4.76    | 1.87             | 0.58       | 3.22    | 2.03          | 0.89       | 2.28    |
| 5                    | 0.78          | 0.16       | 5.02    | 1.90             | 0.59       | 3.23    | 2.09          | 0.91       | 2.30    |
| 6                    | 0.80          | 0.16       | 5.07    | 2.44             | 0.63       | 3.87    | 3.21          | 0.93       | 3.47    |
| 7                    | 0.82          | 0.16       | 5.13    | 2.50             | 0.64       | 3.91    | 3.30          | 0.94       | 3.51    |
| 8                    | 0.84          | 0.16       | 5.18    | 2.56             | 0.65       | 3.95    | 3.39          | 0.95       | 3.55    |
| 9                    | 0.86          | 0.16       | 5.23    | 2.63             | 0.66       | 3.98    | 3.47          | 0.97       | 3.58    |
| 10                   | 0.88          | 0.17       | 5.28    | 2.69             | 0.67       | 4.02    | 3.56          | 0.98       | 3.61    |
| 11                   | 0.90          | 0.17       | 5.32    | 2.76             | 0.68       | 4.06    | 3.64          | 1.00       | 3.65    |
| 12                   | 0.93          | 0.17       | 5.37    | 2.82             | 0.69       | 4.09    | 3.73          | 1.01       | 3.68    |
| 13                   | 0.95          | 0.17       | 5.42    | 2.89             | 0.70       | 4.13    | 3.81          | 1.03       | 3.71    |
| 14                   | 0.97          | 0.18       | 5.46    | 2.95             | 0.71       | 4.16    | 3.90          | 1.04       | 3.74    |
| 15                   | 0.99          | 0.18       | 5.50    | 3.02             | 0.72       | 4.19    | 3.98          | 1.06       | 3.77    |
| 16                   | 1.01          | 0.18       | 5.54    | 3.08             | 0.73       | 4.22    | 4.07          | 1.07       | 3.80    |
| 17                   | 1.03          | 0.18       | 5.58    | 3.15             | 0.74       | 4.26    | 4.15          | 1.09       | 3.82    |
| 18                   | 1.05          | 0.19       | 5.62    | 3.21             | 0.75       | 4.29    | 4.24          | 1.10       | 3.85    |
| 19                   | 1.07          | 0.19       | 5.66    | 3.27             | 0.76       | 4.31    | 4.32          | 1.11       | 3.88    |
| 20                   | 1.10          | 0.19       | 5.70    | 3.34             | 0.77       | 4.34    | 4.41          | 1.13       | 3.90    |
| 21                   | 1.12          | 0.19       | 5.73    | 3.40             | 0.78       | 4.37    | 4.49          | 1.14       | 3.93    |
| 22                   | 1.14          | 0.20       | 5.77    | 3.47             | 0.79       | 4.40    | 4.58          | 1.16       | 3.95    |
| 23                   | 1.16          | 0.20       | 5.80    | 3.53             | 0.80       | 4.42    | 4.66          | 1.17       | 3.98    |
| 24                   | 1.18          | 0.20       | 5.84    | 3.60             | 0.81       | 4.45    | 4.75          | 1.19       | 4.00    |





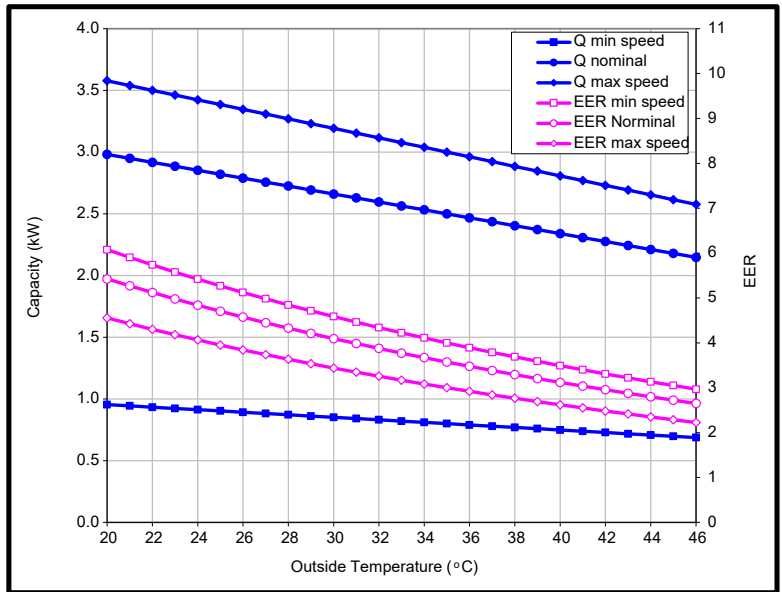
**Model : RAS-B10E2KVG-E/RAS-10E2AVG-E**

Product specification :

| Condition                                                        |       | Capacity (kW) | Power (kW) | EER/COP |      |
|------------------------------------------------------------------|-------|---------------|------------|---------|------|
| Cooling JIS<br>In: 27 °C DB/19°C WB<br>Out: 35 °C DB/24°C WB     | Min   | 0.80          | 0.20       | 4.00    |      |
|                                                                  | Rated | 2.50          | 0.70       | 3.57    |      |
|                                                                  | Max   | 3.00          | 1.00       | 3.00    |      |
| Heating JIS<br>In: 20 °C DB/15°C WB<br>Out: 7 °C DB/6°C WB       | Min   | 0.95          | 0.18       | 5.28    |      |
|                                                                  | Rated | 3.20          | 0.86       | 3.72    |      |
|                                                                  | Max   | 3.90          | 1.11       | 3.51    |      |
| Heating Low Temp.<br>In: 20 °C DB/15°C WB<br>Out: 2 °C DB/1°C WB |       | Max           | 2.50       | 1.00    | 2.50 |

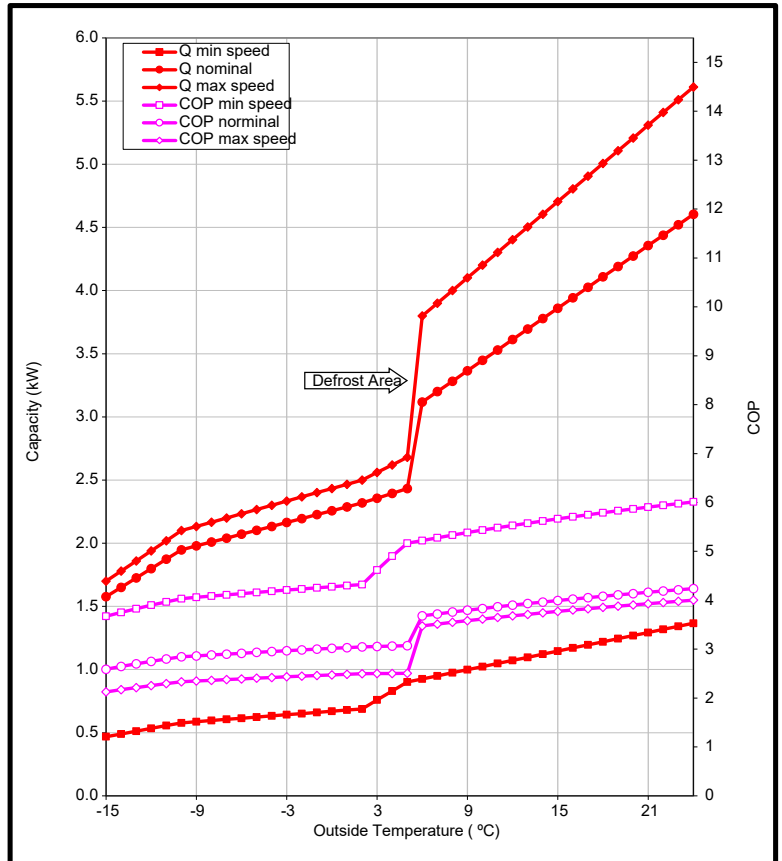
Cooling performance characteristic :

| Outside Temp (°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|-------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                   | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                | 0.95          | 0.16       | 6.08    | 2.98             | 0.55       | 5.43    | 3.58          | 0.79       | 4.56    |
| 21                | 0.94          | 0.16       | 5.90    | 2.95             | 0.56       | 5.27    | 3.54          | 0.80       | 4.43    |
| 22                | 0.93          | 0.16       | 5.74    | 2.92             | 0.57       | 5.12    | 3.50          | 0.81       | 4.30    |
| 23                | 0.92          | 0.17       | 5.57    | 2.89             | 0.58       | 4.98    | 3.46          | 0.83       | 4.18    |
| 24                | 0.91          | 0.17       | 5.42    | 2.85             | 0.59       | 4.84    | 3.42          | 0.84       | 4.06    |
| 25                | 0.90          | 0.17       | 5.27    | 2.82             | 0.60       | 4.70    | 3.39          | 0.86       | 3.95    |
| 26                | 0.89          | 0.17       | 5.12    | 2.79             | 0.61       | 4.57    | 3.35          | 0.87       | 3.84    |
| 27                | 0.88          | 0.18       | 4.98    | 2.76             | 0.62       | 4.45    | 3.31          | 0.89       | 3.74    |
| 28                | 0.87          | 0.18       | 4.85    | 2.72             | 0.63       | 4.33    | 3.27          | 0.90       | 3.63    |
| 29                | 0.86          | 0.18       | 4.71    | 2.69             | 0.64       | 4.21    | 3.23          | 0.91       | 3.54    |
| 30                | 0.85          | 0.19       | 4.59    | 2.66             | 0.65       | 4.09    | 3.19          | 0.93       | 3.44    |
| 31                | 0.84          | 0.19       | 4.46    | 2.63             | 0.66       | 3.98    | 3.15          | 0.94       | 3.35    |
| 32                | 0.83          | 0.19       | 4.34    | 2.60             | 0.67       | 3.88    | 3.12          | 0.96       | 3.26    |
| 33                | 0.82          | 0.19       | 4.22    | 2.56             | 0.68       | 3.77    | 3.08          | 0.97       | 3.17    |
| 34                | 0.81          | 0.20       | 4.11    | 2.53             | 0.69       | 3.67    | 3.04          | 0.99       | 3.08    |
| 35                | 0.80          | 0.20       | 4.00    | 2.50             | 0.70       | 3.57    | 3.00          | 1.00       | 3.00    |
| 36                | 0.79          | 0.20       | 3.89    | 2.47             | 0.71       | 3.48    | 2.96          | 1.01       | 2.92    |
| 37                | 0.78          | 0.21       | 3.79    | 2.44             | 0.72       | 3.38    | 2.92          | 1.03       | 2.84    |
| 38                | 0.77          | 0.21       | 3.69    | 2.40             | 0.73       | 3.29    | 2.88          | 1.04       | 2.77    |
| 39                | 0.76          | 0.21       | 3.59    | 2.37             | 0.74       | 3.20    | 2.85          | 1.06       | 2.69    |
| 40                | 0.75          | 0.21       | 3.49    | 2.34             | 0.75       | 3.12    | 2.81          | 1.07       | 2.62    |
| 41                | 0.74          | 0.22       | 3.40    | 2.31             | 0.76       | 3.04    | 2.77          | 1.09       | 2.55    |
| 42                | 0.73          | 0.22       | 3.31    | 2.28             | 0.77       | 2.95    | 2.73          | 1.10       | 2.48    |
| 43                | 0.72          | 0.22       | 3.22    | 2.24             | 0.78       | 2.88    | 2.69          | 1.11       | 2.42    |
| 44                | 0.71          | 0.23       | 3.13    | 2.21             | 0.79       | 2.80    | 2.65          | 1.13       | 2.35    |
| 45                | 0.70          | 0.23       | 3.05    | 2.18             | 0.80       | 2.72    | 2.62          | 1.14       | 2.29    |
| 46                | 0.69          | 0.23       | 2.97    | 2.15             | 0.81       | 2.65    | 2.58          | 1.16       | 2.23    |



Heating performance characteristic :

| Outside Temp (°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|-------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                   | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15               | 0.47          | 0.13       | 3.67    | 1.58             | 0.61       | 2.59    | 1.70          | 0.80       | 2.13    |
| -14               | 0.49          | 0.13       | 3.75    | 1.65             | 0.62       | 2.65    | 1.78          | 0.82       | 2.17    |
| -13               | 0.51          | 0.13       | 3.83    | 1.73             | 0.64       | 2.70    | 1.86          | 0.84       | 2.21    |
| -12               | 0.53          | 0.14       | 3.90    | 1.80             | 0.65       | 2.75    | 1.94          | 0.86       | 2.26    |
| -11               | 0.56          | 0.14       | 3.97    | 1.87             | 0.67       | 2.80    | 2.02          | 0.88       | 2.30    |
| -10               | 0.58          | 0.14       | 4.03    | 1.95             | 0.68       | 2.84    | 2.10          | 0.90       | 2.33    |
| -9                | 0.59          | 0.14       | 4.06    | 1.98             | 0.69       | 2.86    | 2.13          | 0.91       | 2.35    |
| -8                | 0.60          | 0.15       | 4.09    | 2.01             | 0.70       | 2.88    | 2.17          | 0.92       | 2.36    |
| -7                | 0.61          | 0.15       | 4.11    | 2.04             | 0.70       | 2.90    | 2.20          | 0.93       | 2.38    |
| -6                | 0.61          | 0.15       | 4.14    | 2.07             | 0.71       | 2.92    | 2.23          | 0.93       | 2.39    |
| -5                | 0.62          | 0.15       | 4.16    | 2.10             | 0.72       | 2.93    | 2.27          | 0.94       | 2.41    |
| -4                | 0.63          | 0.15       | 4.19    | 2.13             | 0.72       | 2.95    | 2.30          | 0.95       | 2.42    |
| -3                | 0.64          | 0.15       | 4.21    | 2.16             | 0.73       | 2.97    | 2.33          | 0.96       | 2.43    |
| -2                | 0.65          | 0.15       | 4.23    | 2.20             | 0.74       | 2.98    | 2.37          | 0.97       | 2.45    |
| -1                | 0.66          | 0.16       | 4.26    | 2.23             | 0.74       | 3.00    | 2.40          | 0.98       | 2.46    |
| 0                 | 0.67          | 0.16       | 4.28    | 2.26             | 0.75       | 3.02    | 2.43          | 0.98       | 2.47    |
| 1                 | 0.68          | 0.16       | 4.30    | 2.29             | 0.75       | 3.03    | 2.47          | 0.99       | 2.49    |
| 2                 | 0.69          | 0.16       | 4.32    | 2.32             | 0.76       | 3.05    | 2.50          | 1.00       | 2.50    |
| 3                 | 0.76          | 0.16       | 4.62    | 2.36             | 0.77       | 3.06    | 2.56          | 1.02       | 2.50    |
| 4                 | 0.83          | 0.17       | 4.90    | 2.39             | 0.78       | 3.06    | 2.62          | 1.05       | 2.50    |
| 5                 | 0.90          | 0.17       | 5.17    | 2.43             | 0.79       | 3.07    | 2.68          | 1.07       | 2.50    |
| 6                 | 0.93          | 0.18       | 5.22    | 2.47             | 0.80       | 3.08    | 2.73          | 1.09       | 2.50    |
| 7                 | 0.95          | 0.18       | 5.28    | 2.50             | 0.81       | 3.09    | 2.78          | 1.11       | 2.50    |
| 8                 | 0.97          | 0.18       | 5.33    | 2.53             | 0.82       | 3.10    | 2.83          | 1.13       | 2.50    |
| 9                 | 1.00          | 0.19       | 5.38    | 2.56             | 0.83       | 3.11    | 2.88          | 1.15       | 2.50    |
| 10                | 1.02          | 0.19       | 5.43    | 2.59             | 0.84       | 3.12    | 2.93          | 1.17       | 2.50    |
| 11                | 1.05          | 0.19       | 5.48    | 2.62             | 0.85       | 3.13    | 2.98          | 1.19       | 2.50    |
| 12                | 1.07          | 0.19       | 5.53    | 2.65             | 0.86       | 3.14    | 3.03          | 1.21       | 2.50    |
| 13                | 1.10          | 0.20       | 5.58    | 2.68             | 0.87       | 3.15    | 3.08          | 1.23       | 2.50    |
| 14                | 1.12          | 0.20       | 5.62    | 2.71             | 0.88       | 3.16    | 3.13          | 1.25       | 2.50    |
| 15                | 1.15          | 0.20       | 5.67    | 2.74             | 0.89       | 3.17    | 3.18          | 1.27       | 2.50    |
| 16                | 1.17          | 0.21       | 5.71    | 2.77             | 0.90       | 3.18    | 3.23          | 1.29       | 2.50    |
| 17                | 1.20          | 0.21       | 5.75    | 2.80             | 0.91       | 3.19    | 3.28          | 1.31       | 2.50    |
| 18                | 1.22          | 0.21       | 5.79    | 2.83             | 0.92       | 3.20    | 3.33          | 1.33       | 2.50    |
| 19                | 1.24          | 0.21       | 5.83    | 2.86             | 0.93       | 3.21    | 3.38          | 1.35       | 2.50    |
| 20                | 1.27          | 0.22       | 5.87    | 2.89             | 0.94       | 3.22    | 3.43          | 1.37       | 2.50    |
| 21                | 1.29          | 0.22       | 5.90    | 2.92             | 0.95       | 3.23    | 3.48          | 1.39       | 2.50    |
| 22                | 1.32          | 0.22       | 5.94    | 2.95             | 0.96       | 3.24    | 3.53          | 1.41       | 2.50    |
| 23                | 1.34          | 0.22       | 5.98    | 2.98             | 0.97       | 3.25    | 3.58          | 1.43       | 2.50    |
| 24                | 1.37          | 0.23       | 6.01    | 3.01             | 0.98       | 3.26    | 3.63          | 1.45       | 2.50    |



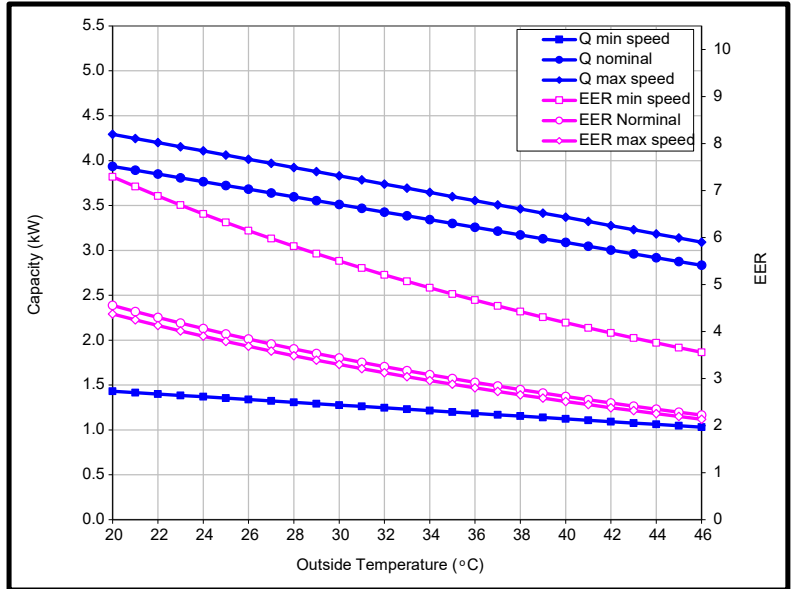
## Model : RAS-B13E2KVG-E/RAS-13E2AVG-E

Product specification :

| Condition                                                        |       | Capacity (kW) | Power (kW) | EER/COP |      |
|------------------------------------------------------------------|-------|---------------|------------|---------|------|
| Cooling JIS<br>In: 27 °C DB/19°C WB<br>Out: 35 °C DB/24°C WB     | Min   | 1.20          | 0.25       | 4.80    |      |
|                                                                  | Rated | 3.30          | 1.10       | 3.00    |      |
|                                                                  | Max   | 3.60          | 1.25       | 2.88    |      |
| Heating JIS<br>In: 20 °C DB/15°C WB<br>Out: 7 °C DB/6°C WB       | Min   | 0.97          | 0.18       | 5.39    |      |
|                                                                  | Rated | 3.60          | 0.92       | 3.91    |      |
|                                                                  | Max   | 4.50          | 1.25       | 3.60    |      |
| Heating Low Temp.<br>In: 20 °C DB/15°C WB<br>Out: 2 °C DB/1°C WB |       | Max           | 3.00       | 1.10    | 2.73 |

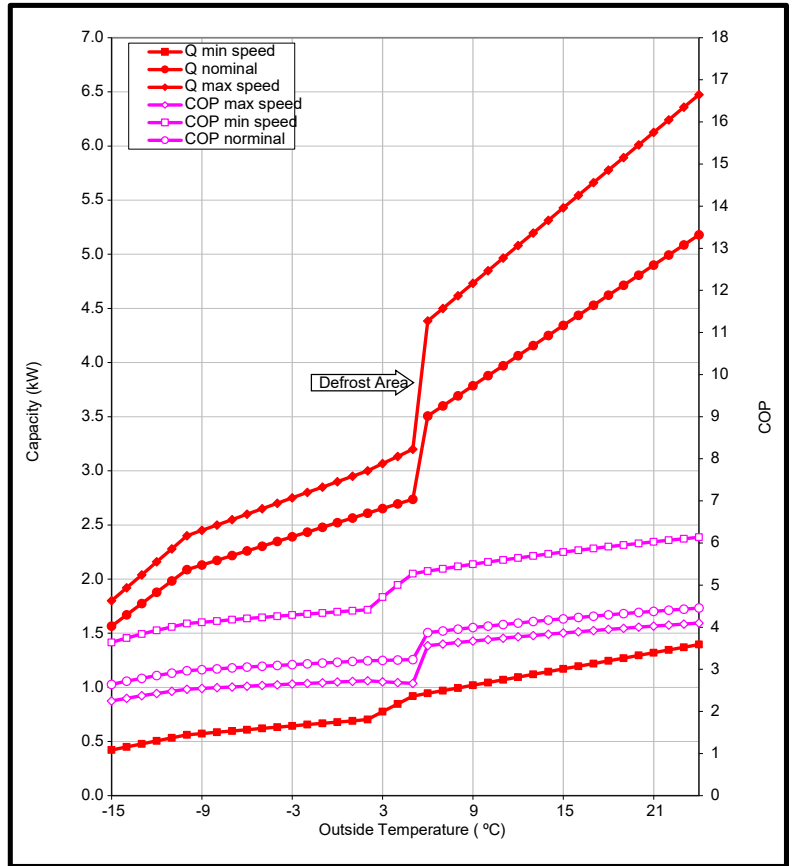
Cooling performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                   | 1.43          | 0.20       | 7.29    | 3.94             | 0.86       | 4.56    | 4.29          | 0.98       | 4.38    |
| 21                   | 1.42          | 0.20       | 7.08    | 3.89             | 0.88       | 4.43    | 4.25          | 1.00       | 4.25    |
| 22                   | 1.40          | 0.20       | 6.88    | 3.85             | 0.90       | 4.30    | 4.20          | 1.02       | 4.13    |
| 23                   | 1.38          | 0.21       | 6.69    | 3.81             | 0.91       | 4.18    | 4.15          | 1.04       | 4.01    |
| 24                   | 1.37          | 0.21       | 6.50    | 3.77             | 0.93       | 4.06    | 4.11          | 1.05       | 3.90    |
| 25                   | 1.35          | 0.21       | 6.32    | 3.72             | 0.94       | 3.95    | 4.06          | 1.07       | 3.79    |
| 26                   | 1.34          | 0.22       | 6.15    | 3.68             | 0.96       | 3.84    | 4.02          | 1.09       | 3.69    |
| 27                   | 1.32          | 0.22       | 5.98    | 3.64             | 0.97       | 3.74    | 3.97          | 1.11       | 3.59    |
| 28                   | 1.31          | 0.22       | 5.81    | 3.60             | 0.99       | 3.63    | 3.92          | 1.12       | 3.49    |
| 29                   | 1.29          | 0.23       | 5.66    | 3.55             | 1.01       | 3.54    | 3.88          | 1.14       | 3.39    |
| 30                   | 1.28          | 0.23       | 5.50    | 3.51             | 1.02       | 3.44    | 3.83          | 1.16       | 3.30    |
| 31                   | 1.26          | 0.24       | 5.35    | 3.47             | 1.04       | 3.35    | 3.78          | 1.18       | 3.21    |
| 32                   | 1.25          | 0.24       | 5.21    | 3.43             | 1.05       | 3.26    | 3.74          | 1.20       | 3.13    |
| 33                   | 1.23          | 0.24       | 5.07    | 3.38             | 1.07       | 3.17    | 3.69          | 1.21       | 3.04    |
| 34                   | 1.22          | 0.25       | 4.93    | 3.34             | 1.08       | 3.08    | 3.65          | 1.23       | 2.96    |
| 35                   | 1.20          | 0.25       | 4.80    | 3.30             | 1.10       | 3.00    | 3.60          | 1.25       | 2.88    |
| 36                   | 1.18          | 0.25       | 4.67    | 3.26             | 1.12       | 2.92    | 3.55          | 1.27       | 2.80    |
| 37                   | 1.17          | 0.26       | 4.55    | 3.22             | 1.13       | 2.84    | 3.51          | 1.29       | 2.73    |
| 38                   | 1.15          | 0.26       | 4.42    | 3.17             | 1.15       | 2.77    | 3.46          | 1.30       | 2.65    |
| 39                   | 1.14          | 0.26       | 4.31    | 3.13             | 1.16       | 2.69    | 3.42          | 1.32       | 2.58    |
| 40                   | 1.12          | 0.27       | 4.19    | 3.09             | 1.18       | 2.62    | 3.37          | 1.34       | 2.51    |
| 41                   | 1.11          | 0.27       | 4.08    | 3.05             | 1.19       | 2.55    | 3.32          | 1.36       | 2.45    |
| 42                   | 1.09          | 0.28       | 3.97    | 3.00             | 1.21       | 2.48    | 3.28          | 1.38       | 2.38    |
| 43                   | 1.08          | 0.28       | 3.86    | 2.96             | 1.23       | 2.42    | 3.23          | 1.39       | 2.32    |
| 44                   | 1.06          | 0.28       | 3.76    | 2.92             | 1.24       | 2.35    | 3.18          | 1.41       | 2.26    |
| 45                   | 1.05          | 0.29       | 3.66    | 2.88             | 1.26       | 2.29    | 3.14          | 1.43       | 2.20    |
| 46                   | 1.03          | 0.29       | 3.56    | 2.83             | 1.27       | 2.23    | 3.09          | 1.45       | 2.14    |



Heating performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15                  | 0.42          | 0.12       | 3.64    | 1.57             | 0.59       | 2.64    | 1.80          | 0.80       | 2.25    |
| -14                  | 0.45          | 0.12       | 3.74    | 1.67             | 0.61       | 2.72    | 1.92          | 0.83       | 2.31    |
| -13                  | 0.48          | 0.12       | 3.84    | 1.77             | 0.64       | 2.79    | 2.04          | 0.86       | 2.37    |
| -12                  | 0.51          | 0.13       | 3.93    | 1.88             | 0.66       | 2.85    | 2.16          | 0.89       | 2.43    |
| -11                  | 0.53          | 0.13       | 4.01    | 1.98             | 0.68       | 2.91    | 2.28          | 0.92       | 2.48    |
| -10                  | 0.56          | 0.14       | 4.09    | 2.09             | 0.70       | 2.97    | 2.40          | 0.95       | 2.53    |
| -9                   | 0.57          | 0.14       | 4.12    | 2.13             | 0.71       | 2.99    | 2.45          | 0.96       | 2.55    |
| -8                   | 0.59          | 0.14       | 4.15    | 2.17             | 0.72       | 3.01    | 2.50          | 0.98       | 2.56    |
| -7                   | 0.60          | 0.14       | 4.18    | 2.22             | 0.73       | 3.03    | 2.55          | 0.99       | 2.58    |
| -6                   | 0.61          | 0.14       | 4.21    | 2.26             | 0.74       | 3.05    | 2.60          | 1.00       | 2.60    |
| -5                   | 0.62          | 0.15       | 4.23    | 2.30             | 0.75       | 3.07    | 2.65          | 1.01       | 2.62    |
| -4                   | 0.63          | 0.15       | 4.26    | 2.35             | 0.76       | 3.09    | 2.70          | 1.03       | 2.63    |
| -3                   | 0.64          | 0.15       | 4.29    | 2.39             | 0.77       | 3.11    | 2.75          | 1.04       | 2.65    |
| -2                   | 0.66          | 0.15       | 4.31    | 2.43             | 0.78       | 3.13    | 2.80          | 1.05       | 2.67    |
| -1                   | 0.67          | 0.15       | 4.34    | 2.48             | 0.79       | 3.15    | 2.85          | 1.06       | 2.68    |
| 0                    | 0.68          | 0.16       | 4.36    | 2.52             | 0.80       | 3.17    | 2.90          | 1.08       | 2.70    |
| 1                    | 0.69          | 0.16       | 4.39    | 2.57             | 0.80       | 3.19    | 2.95          | 1.09       | 2.71    |
| 2                    | 0.70          | 0.16       | 4.41    | 2.61             | 0.81       | 3.20    | 3.00          | 1.10       | 2.73    |
| 3                    | 0.78          | 0.16       | 4.72    | 2.65             | 0.83       | 3.21    | 3.07          | 1.13       | 2.71    |
| 4                    | 0.85          | 0.17       | 5.00    | 2.69             | 0.84       | 3.22    | 3.13          | 1.17       | 2.69    |
| 5                    | 0.92          | 0.17       | 5.27    | 2.74             | 0.85       | 3.23    | 3.20          | 1.20       | 2.67    |
| 6                    | 0.94          | 0.18       | 5.33    | 3.51             | 0.91       | 3.87    | 4.38          | 1.23       | 3.56    |
| 7                    | 0.97          | 0.18       | 5.39    | 3.60             | 0.92       | 3.91    | 4.50          | 1.25       | 3.60    |
| 8                    | 1.00          | 0.18       | 5.44    | 3.69             | 0.93       | 3.95    | 4.62          | 1.27       | 3.64    |
| 9                    | 1.02          | 0.19       | 5.50    | 3.79             | 0.95       | 3.99    | 4.73          | 1.29       | 3.67    |
| 10                   | 1.05          | 0.19       | 5.55    | 3.88             | 0.96       | 4.03    | 4.85          | 1.31       | 3.71    |
| 11                   | 1.07          | 0.19       | 5.60    | 3.97             | 0.98       | 4.07    | 4.96          | 1.33       | 3.74    |
| 12                   | 1.10          | 0.19       | 5.65    | 4.06             | 0.99       | 4.10    | 5.08          | 1.35       | 3.77    |
| 13                   | 1.12          | 0.20       | 5.69    | 4.16             | 1.01       | 4.13    | 5.20          | 1.37       | 3.80    |
| 14                   | 1.15          | 0.20       | 5.74    | 4.25             | 1.02       | 4.17    | 5.31          | 1.39       | 3.83    |
| 15                   | 1.17          | 0.20       | 5.78    | 4.34             | 1.03       | 4.20    | 5.43          | 1.40       | 3.86    |
| 16                   | 1.20          | 0.21       | 5.83    | 4.44             | 1.05       | 4.23    | 5.55          | 1.42       | 3.89    |
| 17                   | 1.22          | 0.21       | 5.87    | 4.53             | 1.06       | 4.26    | 5.66          | 1.44       | 3.92    |
| 18                   | 1.25          | 0.21       | 5.91    | 4.62             | 1.08       | 4.29    | 5.78          | 1.46       | 3.95    |
| 19                   | 1.27          | 0.21       | 5.95    | 4.71             | 1.09       | 4.32    | 5.89          | 1.48       | 3.98    |
| 20                   | 1.30          | 0.22       | 5.99    | 4.81             | 1.11       | 4.35    | 6.01          | 1.50       | 4.00    |
| 21                   | 1.32          | 0.22       | 6.03    | 4.90             | 1.12       | 4.38    | 6.13          | 1.52       | 4.03    |
| 22                   | 1.35          | 0.22       | 6.07    | 4.99             | 1.13       | 4.40    | 6.24          | 1.54       | 4.05    |
| 23                   | 1.37          | 0.22       | 6.10    | 5.09             | 1.15       | 4.43    | 6.36          | 1.56       | 4.08    |
| 24                   | 1.40          | 0.23       | 6.14    | 5.18             | 1.16       | 4.46    | 6.47          | 1.58       | 4.10    |



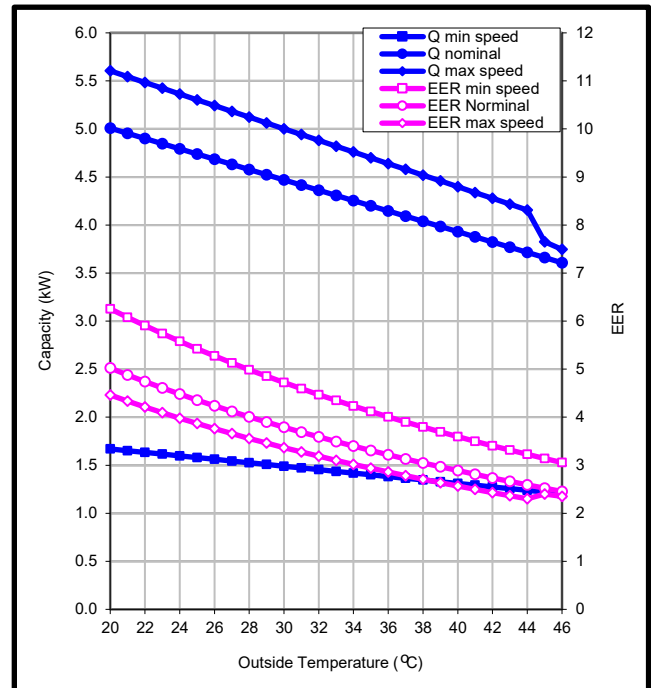
Model : RAS-B16E2KVG-E/RAS-16E2AVG-E

Product specification :

| Condition                                                   |       | Capacity (kW) | Power (kW) | EER/COP |
|-------------------------------------------------------------|-------|---------------|------------|---------|
| Cooling JIS<br>In: 27 °C DB/19°C WB<br>Out: 35°C DB/24°C WB | Min   | 1.40          | 0.34       | 4.12    |
|                                                             | Rated | 4.20          | 1.27       | 3.31    |
|                                                             | Max   | 4.70          | 1.60       | 2.94    |
| Heating JIS<br>In: 20 °C DB/15°C WB<br>Out: 7 °C DB/6°C WB  | Min   | 1.30          | 0.24       | 5.42    |
|                                                             | Rated | 5.00          | 1.34       | 3.73    |
|                                                             | Max   | 6.00          | 1.70       | 3.53    |

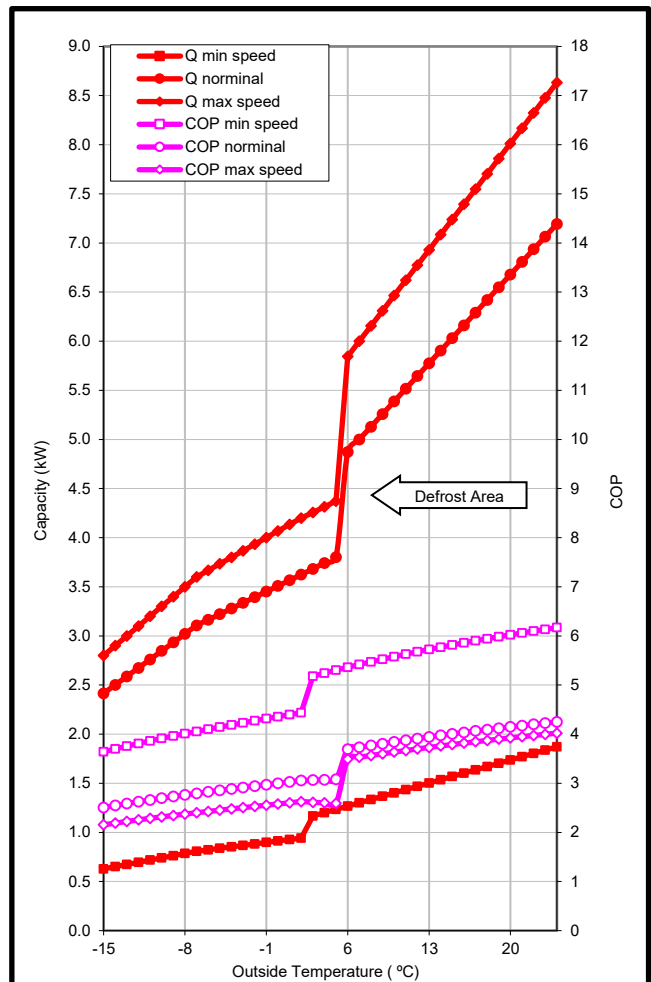
Cooling performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                   | 1.67          | 0.27       | 6.26    | 5.01             | 1.00       | 5.02    | 5.60          | 1.26       | 4.46    |
| 21                   | 1.65          | 0.27       | 6.08    | 4.95             | 1.02       | 4.88    | 5.54          | 1.28       | 4.34    |
| 22                   | 1.63          | 0.28       | 5.90    | 4.90             | 1.03       | 4.74    | 5.48          | 1.30       | 4.21    |
| 23                   | 1.62          | 0.28       | 5.74    | 4.85             | 1.05       | 4.61    | 5.42          | 1.32       | 4.09    |
| 24                   | 1.60          | 0.29       | 5.58    | 4.79             | 1.07       | 4.48    | 5.36          | 1.35       | 3.98    |
| 25                   | 1.58          | 0.29       | 5.42    | 4.74             | 1.09       | 4.36    | 5.30          | 1.37       | 3.87    |
| 26                   | 1.56          | 0.30       | 5.27    | 4.69             | 1.11       | 4.24    | 5.24          | 1.39       | 3.76    |
| 27                   | 1.54          | 0.30       | 5.13    | 4.63             | 1.12       | 4.12    | 5.18          | 1.42       | 3.66    |
| 28                   | 1.53          | 0.31       | 4.99    | 4.58             | 1.14       | 4.01    | 5.12          | 1.44       | 3.56    |
| 29                   | 1.51          | 0.31       | 4.85    | 4.52             | 1.16       | 3.90    | 5.06          | 1.46       | 3.46    |
| 30                   | 1.49          | 0.32       | 4.72    | 4.47             | 1.18       | 3.79    | 5.00          | 1.49       | 3.37    |
| 31                   | 1.47          | 0.32       | 4.59    | 4.42             | 1.20       | 3.69    | 4.94          | 1.51       | 3.28    |
| 32                   | 1.45          | 0.33       | 4.47    | 4.36             | 1.22       | 3.59    | 4.88          | 1.53       | 3.19    |
| 33                   | 1.44          | 0.33       | 4.35    | 4.31             | 1.23       | 3.49    | 4.82          | 1.55       | 3.10    |
| 34                   | 1.42          | 0.34       | 4.23    | 4.25             | 1.25       | 3.40    | 4.76          | 1.58       | 3.02    |
| 35                   | 1.40          | 0.34       | 4.12    | 4.20             | 1.27       | 3.31    | 4.70          | 1.60       | 2.94    |
| 36                   | 1.38          | 0.34       | 4.01    | 4.15             | 1.29       | 3.22    | 4.64          | 1.62       | 2.86    |
| 37                   | 1.36          | 0.35       | 3.90    | 4.09             | 1.31       | 3.13    | 4.58          | 1.65       | 2.78    |
| 38                   | 1.35          | 0.35       | 3.80    | 4.04             | 1.32       | 3.05    | 4.52          | 1.67       | 2.71    |
| 39                   | 1.33          | 0.36       | 3.69    | 3.98             | 1.34       | 2.97    | 4.46          | 1.69       | 2.64    |
| 40                   | 1.31          | 0.36       | 3.60    | 3.93             | 1.36       | 2.89    | 4.40          | 1.71       | 2.57    |
| 41                   | 1.29          | 0.37       | 3.50    | 3.88             | 1.38       | 2.81    | 4.34          | 1.74       | 2.50    |
| 42                   | 1.27          | 0.37       | 3.41    | 3.82             | 1.40       | 2.74    | 4.28          | 1.76       | 2.43    |
| 43                   | 1.26          | 0.38       | 3.31    | 3.77             | 1.42       | 2.66    | 4.22          | 1.78       | 2.36    |
| 44                   | 1.24          | 0.38       | 3.23    | 3.71             | 1.43       | 2.59    | 4.16          | 1.81       | 2.30    |
| 45                   | 1.22          | 0.39       | 3.14    | 3.66             | 1.45       | 2.52    | 4.10          | 1.84       | 2.24    |
| 46                   | 1.20          | 0.39       | 3.05    | 3.61             | 1.47       | 2.45    | 4.04          | 1.87       | 2.18    |



Heating performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15                  | 0.63          | 0.17       | 3.64    | 2.42             | 0.96       | 2.51    | 2.80          | 1.30       | 2.15    |
| -14                  | 0.65          | 0.18       | 3.70    | 2.50             | 0.98       | 2.55    | 2.90          | 1.33       | 2.19    |
| -13                  | 0.67          | 0.18       | 3.75    | 2.59             | 1.00       | 2.59    | 3.00          | 1.35       | 2.22    |
| -12                  | 0.70          | 0.18       | 3.81    | 2.67             | 1.02       | 2.62    | 3.10          | 1.38       | 2.25    |
| -11                  | 0.72          | 0.19       | 3.86    | 2.76             | 1.04       | 2.66    | 3.20          | 1.40       | 2.29    |
| -10                  | 0.74          | 0.19       | 3.91    | 2.85             | 1.06       | 2.70    | 3.30          | 1.43       | 2.32    |
| -9                   | 0.76          | 0.19       | 3.96    | 2.93             | 1.07       | 2.73    | 3.40          | 1.45       | 2.34    |
| -8                   | 0.79          | 0.20       | 4.01    | 3.02             | 1.09       | 2.76    | 3.50          | 1.48       | 2.37    |
| -7                   | 0.81          | 0.20       | 4.06    | 3.11             | 1.11       | 2.79    | 3.60          | 1.50       | 2.40    |
| -6                   | 0.82          | 0.20       | 4.10    | 3.16             | 1.12       | 2.82    | 3.67          | 1.51       | 2.43    |
| -5                   | 0.84          | 0.20       | 4.14    | 3.22             | 1.13       | 2.85    | 3.73          | 1.52       | 2.45    |
| -4                   | 0.85          | 0.20       | 4.19    | 3.28             | 1.14       | 2.88    | 3.80          | 1.53       | 2.48    |
| -3                   | 0.87          | 0.21       | 4.23    | 3.34             | 1.14       | 2.91    | 3.87          | 1.54       | 2.50    |
| -2                   | 0.88          | 0.21       | 4.27    | 3.39             | 1.15       | 2.94    | 3.93          | 1.56       | 2.53    |
| -1                   | 0.90          | 0.21       | 4.31    | 3.45             | 1.16       | 2.97    | 4.00          | 1.57       | 2.55    |
| 0                    | 0.91          | 0.21       | 4.36    | 3.51             | 1.17       | 3.00    | 4.07          | 1.58       | 2.58    |
| 1                    | 0.93          | 0.21       | 4.40    | 3.57             | 1.18       | 3.03    | 4.13          | 1.59       | 2.60    |
| 2                    | 0.94          | 0.21       | 4.44    | 3.62             | 1.19       | 3.06    | 4.20          | 1.60       | 2.63    |
| 3                    | 1.17          | 0.23       | 5.18    | 3.68             | 1.20       | 3.06    | 4.26          | 1.63       | 2.61    |
| 4                    | 1.20          | 0.23       | 5.24    | 3.74             | 1.22       | 3.07    | 4.31          | 1.66       | 2.60    |
| 5                    | 1.23          | 0.23       | 5.30    | 3.80             | 1.23       | 3.08    | 4.37          | 1.69       | 2.59    |
| 6                    | 1.27          | 0.24       | 5.36    | 4.87             | 1.32       | 3.69    | 5.85          | 1.67       | 3.49    |
| 7                    | 1.30          | 0.24       | 5.42    | 5.00             | 1.34       | 3.73    | 6.00          | 1.70       | 3.53    |
| 8                    | 1.33          | 0.24       | 5.47    | 5.13             | 1.36       | 3.77    | 6.15          | 1.73       | 3.57    |
| 9                    | 1.37          | 0.25       | 5.53    | 5.26             | 1.38       | 3.81    | 6.31          | 1.75       | 3.60    |
| 10                   | 1.40          | 0.25       | 5.58    | 5.39             | 1.40       | 3.84    | 6.46          | 1.78       | 3.63    |
| 11                   | 1.43          | 0.25       | 5.63    | 5.52             | 1.42       | 3.88    | 6.62          | 1.81       | 3.67    |
| 12                   | 1.47          | 0.26       | 5.68    | 5.65             | 1.44       | 3.91    | 6.77          | 1.83       | 3.70    |
| 13                   | 1.50          | 0.26       | 5.72    | 5.77             | 1.46       | 3.94    | 6.93          | 1.86       | 3.73    |
| 14                   | 1.53          | 0.27       | 5.77    | 5.90             | 1.49       | 3.97    | 7.08          | 1.88       | 3.76    |
| 15                   | 1.57          | 0.27       | 5.81    | 6.03             | 1.51       | 4.01    | 7.24          | 1.91       | 3.79    |
| 16                   | 1.60          | 0.27       | 5.86    | 6.16             | 1.53       | 4.04    | 7.39          | 1.94       | 3.82    |
| 17                   | 1.64          | 0.28       | 5.90    | 6.29             | 1.55       | 4.06    | 7.55          | 1.96       | 3.84    |
| 18                   | 1.67          | 0.28       | 5.94    | 6.42             | 1.57       | 4.09    | 7.70          | 1.99       | 3.87    |
| 19                   | 1.70          | 0.28       | 5.98    | 6.55             | 1.59       | 4.12    | 7.86          | 2.02       | 3.90    |
| 20                   | 1.74          | 0.29       | 6.02    | 6.68             | 1.61       | 4.15    | 8.01          | 2.04       | 3.92    |
| 21                   | 1.77          | 0.29       | 6.06    | 6.81             | 1.63       | 4.17    | 8.17          | 2.07       | 3.95    |
| 22                   | 1.80          | 0.30       | 6.10    | 6.94             | 1.65       | 4.20    | 8.32          | 2.09       | 3.97    |
| 23                   | 1.84          | 0.30       | 6.13    | 7.06             | 1.67       | 4.23    | 8.48          | 2.12       | 4.00    |
| 24                   | 1.87          | 0.30       | 6.17    | 7.19             | 1.69       | 4.25    | 8.63          | 2.15       | 4.02    |



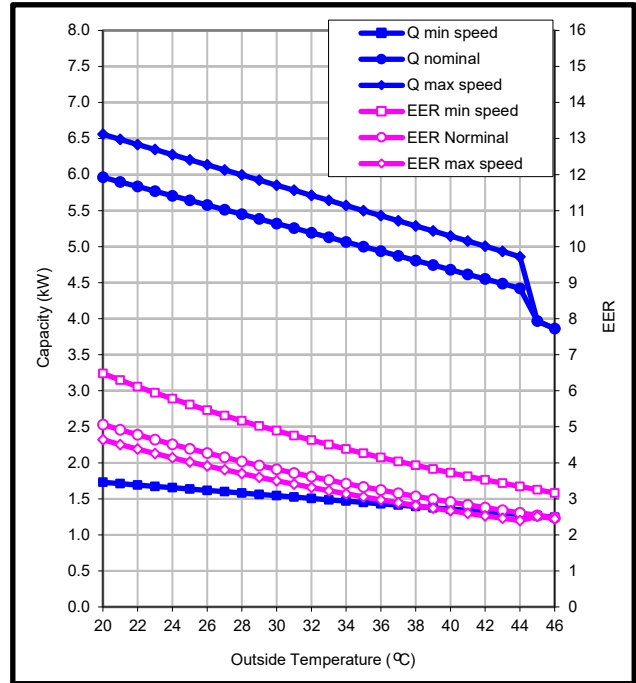
Model : RAS-18E2KVG-E / RAS-18E2AVG-E

Product specification :

| Condition                                                  |       | Capacity (kW) | Power (kW) | EER/COP |
|------------------------------------------------------------|-------|---------------|------------|---------|
| Cooling JIS<br>In: 27°C DB/19°C WB<br>Out: 35°C DB/24°C WB | Min   | 1.45          | 0.34       | 4.26    |
|                                                            | Rated | 5.00          | 1.50       | 3.33    |
|                                                            | Max   | 5.50          | 1.80       | 3.06    |
| Heating JIS<br>In: 20°C DB/15°C WB<br>Out: 7°C DB/6°C WB   | Min   | 1.35          | 0.26       | 5.19    |
|                                                            | Rated | 5.40          | 1.50       | 3.60    |
|                                                            | Max   | 6.00          | 1.80       | 3.33    |

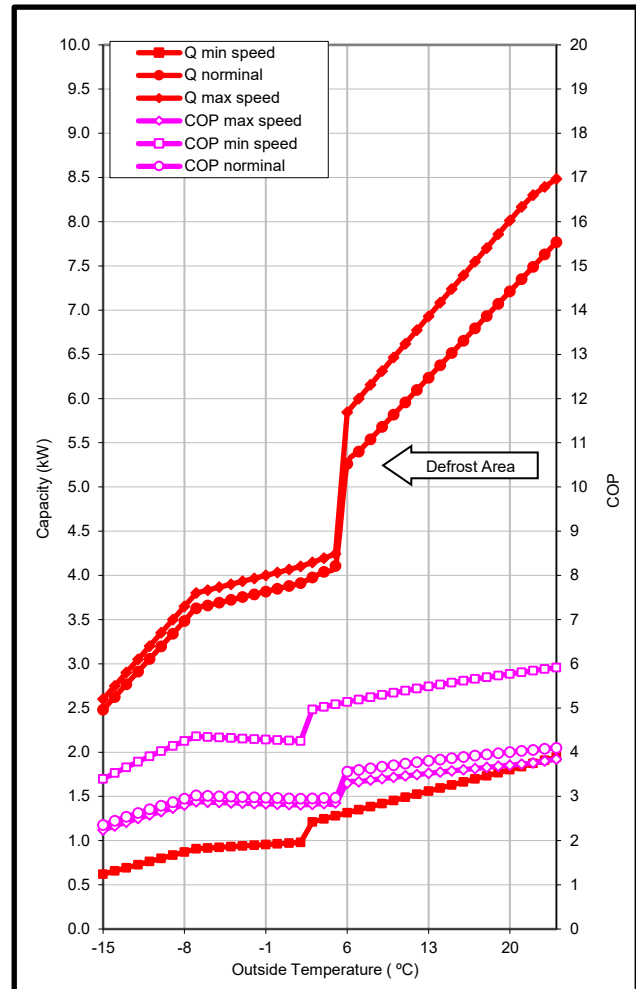
Cooling performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                   | 1.73          | 0.27       | 6.48    | 5.96             | 1.18       | 5.06    | 6.56          | 1.41       | 4.64    |
| 21                   | 1.71          | 0.27       | 6.29    | 5.90             | 1.20       | 4.92    | 6.49          | 1.44       | 4.51    |
| 22                   | 1.69          | 0.28       | 6.12    | 5.83             | 1.22       | 4.78    | 6.42          | 1.46       | 4.38    |
| 23                   | 1.67          | 0.28       | 5.94    | 5.77             | 1.24       | 4.65    | 6.35          | 1.49       | 4.26    |
| 24                   | 1.65          | 0.29       | 5.78    | 5.71             | 1.26       | 4.52    | 6.28          | 1.52       | 4.14    |
| 25                   | 1.64          | 0.29       | 5.62    | 5.64             | 1.29       | 4.39    | 6.21          | 1.54       | 4.02    |
| 26                   | 1.62          | 0.30       | 5.46    | 5.58             | 1.31       | 4.27    | 6.14          | 1.57       | 3.91    |
| 27                   | 1.60          | 0.30       | 5.31    | 5.51             | 1.33       | 4.15    | 6.06          | 1.59       | 3.81    |
| 28                   | 1.58          | 0.31       | 5.17    | 5.45             | 1.35       | 4.04    | 5.99          | 1.62       | 3.70    |
| 29                   | 1.56          | 0.31       | 5.03    | 5.39             | 1.37       | 3.93    | 5.92          | 1.65       | 3.60    |
| 30                   | 1.54          | 0.32       | 4.89    | 5.32             | 1.39       | 3.82    | 5.85          | 1.67       | 3.50    |
| 31                   | 1.52          | 0.32       | 4.76    | 5.26             | 1.41       | 3.72    | 5.78          | 1.70       | 3.41    |
| 32                   | 1.51          | 0.33       | 4.63    | 5.19             | 1.44       | 3.62    | 5.71          | 1.72       | 3.32    |
| 33                   | 1.49          | 0.33       | 4.50    | 5.13             | 1.46       | 3.52    | 5.64          | 1.75       | 3.23    |
| 34                   | 1.47          | 0.34       | 4.38    | 5.06             | 1.48       | 3.43    | 5.57          | 1.77       | 3.14    |
| 35                   | 1.45          | 0.34       | 4.26    | 5.00             | 1.50       | 3.33    | 5.50          | 1.80       | 3.06    |
| 36                   | 1.43          | 0.34       | 4.15    | 4.94             | 1.52       | 3.24    | 5.43          | 1.83       | 2.97    |
| 37                   | 1.41          | 0.35       | 4.04    | 4.87             | 1.54       | 3.16    | 5.36          | 1.85       | 2.89    |
| 38                   | 1.39          | 0.35       | 3.93    | 4.81             | 1.56       | 3.07    | 5.29          | 1.88       | 2.82    |
| 39                   | 1.38          | 0.36       | 3.83    | 4.74             | 1.59       | 2.99    | 5.22          | 1.90       | 2.74    |
| 40                   | 1.36          | 0.36       | 3.72    | 4.68             | 1.61       | 2.91    | 5.15          | 1.93       | 2.67    |
| 41                   | 1.34          | 0.37       | 3.62    | 4.62             | 1.63       | 2.83    | 5.08          | 1.95       | 2.60    |
| 42                   | 1.32          | 0.37       | 3.53    | 4.55             | 1.65       | 2.76    | 5.01          | 1.98       | 2.53    |
| 43                   | 1.30          | 0.38       | 3.43    | 4.49             | 1.67       | 2.68    | 4.94          | 2.01       | 2.46    |
| 44                   | 1.28          | 0.38       | 3.34    | 4.42             | 1.69       | 2.61    | 4.86          | 2.03       | 2.40    |
| 45                   | 1.26          | 0.39       | 3.25    | 4.37             | 1.56       | 2.54    | 4.79          | 1.58       | 2.52    |
| 46                   | 1.25          | 0.39       | 3.16    | 4.36             | 1.56       | 2.47    | 4.78          | 1.58       | 2.45    |



Heating performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15                  | 0.62          | 0.18       | 3.39    | 2.48             | 1.05       | 2.35    | 2.60          | 1.16       | 2.24    |
| -14                  | 0.66          | 0.19       | 3.53    | 2.62             | 1.07       | 2.45    | 2.75          | 1.18       | 2.33    |
| -13                  | 0.69          | 0.19       | 3.66    | 2.77             | 1.09       | 2.54    | 2.90          | 1.20       | 2.42    |
| -12                  | 0.73          | 0.19       | 3.79    | 2.91             | 1.11       | 2.62    | 3.05          | 1.22       | 2.50    |
| -11                  | 0.76          | 0.20       | 3.91    | 3.05             | 1.13       | 2.71    | 3.20          | 1.24       | 2.58    |
| -10                  | 0.80          | 0.20       | 4.03    | 3.20             | 1.15       | 2.79    | 3.35          | 1.26       | 2.66    |
| -9                   | 0.84          | 0.20       | 4.14    | 3.34             | 1.16       | 2.87    | 3.50          | 1.28       | 2.73    |
| -8                   | 0.87          | 0.20       | 4.25    | 3.48             | 1.18       | 2.95    | 3.65          | 1.30       | 2.81    |
| -7                   | 0.91          | 0.21       | 4.36    | 3.63             | 1.20       | 3.02    | 3.80          | 1.32       | 2.88    |
| -6                   | 0.91          | 0.21       | 4.35    | 3.66             | 1.21       | 3.01    | 3.83          | 1.34       | 2.87    |
| -5                   | 0.92          | 0.21       | 4.33    | 3.69             | 1.23       | 3.00    | 3.87          | 1.35       | 2.86    |
| -4                   | 0.93          | 0.22       | 4.32    | 3.72             | 1.24       | 3.00    | 3.90          | 1.37       | 2.85    |
| -3                   | 0.94          | 0.22       | 4.31    | 3.75             | 1.26       | 2.99    | 3.93          | 1.38       | 2.85    |
| -2                   | 0.95          | 0.22       | 4.30    | 3.79             | 1.27       | 2.98    | 3.97          | 1.40       | 2.84    |
| -1                   | 0.95          | 0.22       | 4.28    | 3.82             | 1.29       | 2.97    | 4.00          | 1.41       | 2.83    |
| 0                    | 0.96          | 0.23       | 4.27    | 3.85             | 1.30       | 2.96    | 4.03          | 1.43       | 2.82    |
| 1                    | 0.97          | 0.23       | 4.26    | 3.88             | 1.31       | 2.96    | 4.07          | 1.44       | 2.82    |
| 2                    | 0.98          | 0.23       | 4.25    | 3.91             | 1.33       | 2.95    | 4.10          | 1.46       | 2.81    |
| 3                    | 1.21          | 0.24       | 4.96    | 3.98             | 1.35       | 2.96    | 4.15          | 1.47       | 2.82    |
| 4                    | 1.25          | 0.25       | 5.02    | 4.04             | 1.36       | 2.96    | 4.20          | 1.48       | 2.84    |
| 5                    | 1.28          | 0.25       | 5.08    | 4.11             | 1.38       | 2.97    | 4.24          | 1.49       | 2.85    |
| 6                    | 1.32          | 0.26       | 5.14    | 4.26             | 1.48       | 3.56    | 5.85          | 1.77       | 3.30    |
| 7                    | 1.35          | 0.26       | 5.19    | 5.40             | 1.50       | 3.60    | 6.00          | 1.80       | 3.33    |
| 8                    | 1.38          | 0.26       | 5.25    | 5.54             | 1.52       | 3.64    | 6.15          | 1.83       | 3.37    |
| 9                    | 1.42          | 0.27       | 5.30    | 5.68             | 1.55       | 3.67    | 6.31          | 1.86       | 3.40    |
| 10                   | 1.45          | 0.27       | 5.35    | 5.82             | 1.57       | 3.71    | 6.46          | 1.88       | 3.43    |
| 11                   | 1.49          | 0.28       | 5.39    | 5.96             | 1.59       | 3.74    | 6.62          | 1.91       | 3.46    |
| 12                   | 1.52          | 0.28       | 5.44    | 6.10             | 1.62       | 3.77    | 6.77          | 1.94       | 3.49    |
| 13                   | 1.56          | 0.28       | 5.49    | 6.24             | 1.64       | 3.80    | 6.93          | 1.97       | 3.52    |
| 14                   | 1.59          | 0.29       | 5.53    | 6.38             | 1.66       | 3.83    | 7.08          | 2.00       | 3.55    |
| 15                   | 1.63          | 0.29       | 5.57    | 6.51             | 1.69       | 3.86    | 7.24          | 2.02       | 3.58    |
| 16                   | 1.66          | 0.30       | 5.62    | 6.65             | 1.71       | 3.89    | 7.39          | 2.05       | 3.61    |
| 17                   | 1.70          | 0.30       | 5.66    | 6.79             | 1.73       | 3.92    | 7.55          | 2.08       | 3.63    |
| 18                   | 1.73          | 0.30       | 5.70    | 6.93             | 1.76       | 3.95    | 7.70          | 2.11       | 3.66    |
| 19                   | 1.77          | 0.31       | 5.73    | 7.07             | 1.78       | 3.98    | 7.86          | 2.13       | 3.68    |
| 20                   | 1.80          | 0.31       | 5.77    | 7.21             | 1.80       | 4.00    | 8.01          | 2.16       | 3.71    |
| 21                   | 1.84          | 0.32       | 5.81    | 7.35             | 1.83       | 4.03    | 8.17          | 2.19       | 3.73    |
| 22                   | 1.87          | 0.32       | 5.84    | 7.49             | 1.85       | 4.05    | 8.30          | 2.21       | 3.76    |
| 23                   | 1.91          | 0.32       | 5.88    | 7.63             | 1.87       | 4.08    | 8.39          | 2.21       | 3.80    |
| 24                   | 1.94          | 0.33       | 5.91    | 7.77             | 1.89       | 4.10    | 8.48          | 2.21       | 3.84    |



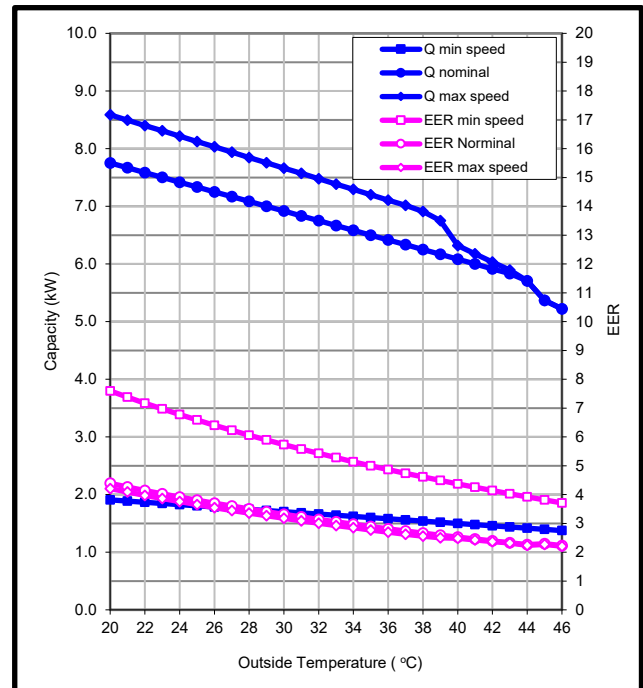
Model : RAS-24E2KVG-E / RAS-24E2AVG-E

Product specification :

| Condition                                                   |       | Capacity (kW) | Power (kW) | EER/COP |
|-------------------------------------------------------------|-------|---------------|------------|---------|
| Cooling JIS<br>In: 27 °C DB/19°C WB<br>Out: 35°C DB/24°C WB | Min   | 1.60          | 0.32       | 5.00    |
|                                                             | Rated | 6.50          | 2.25       | 2.89    |
|                                                             | Max   | 7.20          | 2.60       | 2.77    |
| Heating JIS<br>In: 20 °C DB/15°C WB<br>Out: 7°C DB/6°C WB   | Min   | 1.60          | 0.29       | 5.52    |
|                                                             | Rated | 7.00          | 2.10       | 3.33    |
|                                                             | Max   | 8.10          | 2.55       | 3.18    |

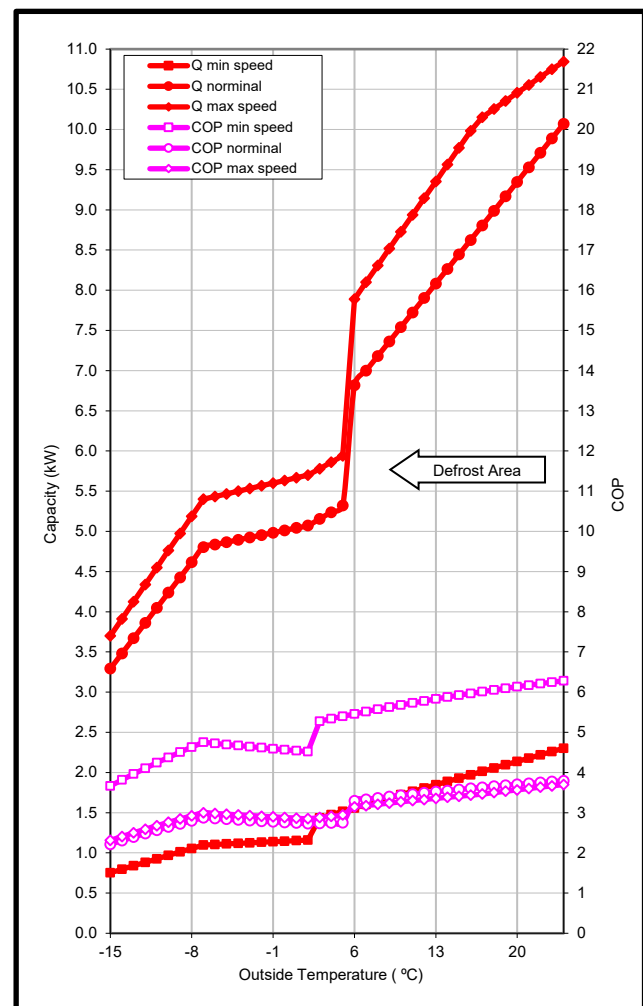
Cooling performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW)    | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20                   | 1.91          | 0.25       | 7.60    | 7.75             | 1.77       | 4.39    | 8.59          | 2.04       | 4.21    |
| 21                   | 1.89          | 0.26       | 7.38    | 7.67             | 1.80       | 4.26    | 8.49          | 2.08       | 4.09    |
| 22                   | 1.87          | 0.26       | 7.17    | 7.58             | 1.83       | 4.14    | 8.40          | 2.12       | 3.97    |
| 23                   | 1.85          | 0.26       | 6.97    | 7.50             | 1.86       | 4.03    | 8.31          | 2.15       | 3.86    |
| 24                   | 1.83          | 0.27       | 6.77    | 7.42             | 1.90       | 3.91    | 8.22          | 2.19       | 3.75    |
| 25                   | 1.81          | 0.27       | 6.59    | 7.33             | 1.93       | 3.81    | 8.12          | 2.23       | 3.65    |
| 26                   | 1.78          | 0.28       | 6.40    | 7.25             | 1.96       | 3.70    | 8.03          | 2.26       | 3.55    |
| 27                   | 1.76          | 0.28       | 6.23    | 7.17             | 1.99       | 3.60    | 7.94          | 2.30       | 3.45    |
| 28                   | 1.74          | 0.29       | 6.06    | 7.08             | 2.02       | 3.50    | 7.85          | 2.34       | 3.35    |
| 29                   | 1.72          | 0.29       | 5.89    | 7.00             | 2.06       | 3.40    | 7.75          | 2.38       | 3.26    |
| 30                   | 1.70          | 0.30       | 5.73    | 6.92             | 2.09       | 3.31    | 7.66          | 2.41       | 3.17    |
| 31                   | 1.68          | 0.30       | 5.58    | 6.83             | 2.12       | 3.22    | 7.57          | 2.45       | 3.09    |
| 32                   | 1.66          | 0.31       | 5.43    | 6.75             | 2.15       | 3.13    | 7.48          | 2.49       | 3.01    |
| 33                   | 1.64          | 0.31       | 5.28    | 6.67             | 2.19       | 3.05    | 7.38          | 2.53       | 2.92    |
| 34                   | 1.62          | 0.32       | 5.14    | 6.58             | 2.22       | 2.97    | 7.29          | 2.56       | 2.85    |
| 35                   | 1.60          | 0.32       | 5.00    | 6.50             | 2.25       | 2.89    | 7.20          | 2.60       | 2.77    |
| 36                   | 1.58          | 0.32       | 4.87    | 6.42             | 2.28       | 2.81    | 7.11          | 2.64       | 2.70    |
| 37                   | 1.56          | 0.33       | 4.74    | 6.33             | 2.31       | 2.74    | 7.02          | 2.67       | 2.62    |
| 38                   | 1.54          | 0.33       | 4.61    | 6.25             | 2.35       | 2.66    | 6.91          | 2.70       | 2.55    |
| 39                   | 1.52          | 0.34       | 4.49    | 6.17             | 2.38       | 2.59    | 6.75          | 2.70       | 2.50    |
| 40                   | 1.50          | 0.34       | 4.37    | 6.08             | 2.41       | 2.52    | 6.62          | 2.55       | 2.48    |
| 41                   | 1.48          | 0.35       | 4.25    | 6.00             | 2.44       | 2.46    | 6.48          | 2.55       | 2.42    |
| 42                   | 1.46          | 0.35       | 4.14    | 5.92             | 2.48       | 2.39    | 6.33          | 2.55       | 2.37    |
| 43                   | 1.44          | 0.36       | 4.03    | 5.83             | 2.51       | 2.33    | 6.18          | 2.55       | 2.31    |
| 44                   | 1.42          | 0.36       | 3.92    | 5.71             | 2.52       | 2.26    | 6.03          | 2.55       | 2.24    |
| 45                   | 1.39          | 0.37       | 3.81    | 5.57             | 2.54       | 2.22    | 5.87          | 2.57       | 2.27    |
| 46                   | 1.37          | 0.37       | 3.71    | 5.42             | 2.54       | 2.23    | 5.72          | 2.57       | 2.21    |



Heating performance characteristic :

| Outside Temp<br>(°C) | Min capacity  |            |         | Nominal capacity |            |         | Max capacity  |            |         |
|----------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
|                      | Capacity (kW) | Power (kW) | COP (-) | Capacity (kW)    | Power (kW) | COP (-) | Capacity (kW) | Power (kW) | COP (-) |
| -15                  | 0.75          | 0.21       | 3.67    | 3.29             | 1.49       | 2.21    | 3.70          | 1.60       | 2.31    |
| -14                  | 0.80          | 0.21       | 3.82    | 3.48             | 1.51       | 2.31    | 3.91          | 1.63       | 2.41    |
| -13                  | 0.84          | 0.21       | 3.96    | 3.67             | 1.53       | 2.39    | 4.13          | 1.65       | 2.50    |
| -12                  | 0.88          | 0.21       | 4.10    | 3.86             | 1.56       | 2.48    | 4.34          | 1.68       | 2.59    |
| -11                  | 0.93          | 0.22       | 4.24    | 4.05             | 1.58       | 2.56    | 4.55          | 1.70       | 2.68    |
| -10                  | 0.97          | 0.22       | 4.38    | 4.24             | 1.60       | 2.64    | 4.76          | 1.73       | 2.76    |
| -9                   | 1.01          | 0.22       | 4.51    | 4.43             | 1.63       | 2.72    | 4.98          | 1.75       | 2.84    |
| -8                   | 1.06          | 0.23       | 4.63    | 4.62             | 1.65       | 2.80    | 5.19          | 1.78       | 2.92    |
| -7                   | 1.10          | 0.23       | 4.76    | 4.81             | 1.67       | 2.87    | 5.40          | 1.80       | 3.00    |
| -6                   | 1.11          | 0.23       | 4.73    | 4.84             | 1.69       | 2.86    | 5.43          | 1.82       | 2.98    |
| -5                   | 1.11          | 0.24       | 4.70    | 4.86             | 1.71       | 2.84    | 5.47          | 1.84       | 2.96    |
| -4                   | 1.12          | 0.24       | 4.67    | 4.89             | 1.73       | 2.82    | 5.50          | 1.87       | 2.95    |
| -3                   | 1.13          | 0.24       | 4.64    | 4.92             | 1.76       | 2.81    | 5.53          | 1.89       | 2.93    |
| -2                   | 1.13          | 0.25       | 4.62    | 4.95             | 1.78       | 2.79    | 5.57          | 1.91       | 2.91    |
| -1                   | 1.14          | 0.25       | 4.59    | 4.98             | 1.80       | 2.77    | 5.60          | 1.93       | 2.90    |
| 0                    | 1.15          | 0.25       | 4.57    | 5.01             | 1.82       | 2.76    | 5.63          | 1.96       | 2.88    |
| 1                    | 1.15          | 0.25       | 4.54    | 5.04             | 1.84       | 2.74    | 5.67          | 1.98       | 2.87    |
| 2                    | 1.16          | 0.26       | 4.52    | 5.07             | 1.86       | 2.73    | 5.70          | 2.00       | 2.85    |
| 3                    | 1.43          | 0.27       | 5.27    | 5.16             | 1.88       | 2.74    | 5.78          | 2.01       | 2.88    |
| 4                    | 1.48          | 0.28       | 5.34    | 5.24             | 1.91       | 2.75    | 5.86          | 2.01       | 2.91    |
| 5                    | 1.52          | 0.28       | 5.40    | 5.32             | 1.93       | 2.75    | 5.94          | 2.02       | 2.94    |
| 6                    | 1.56          | 0.29       | 5.46    | 5.40             | 2.07       | 3.30    | 7.89          | 2.51       | 3.14    |
| 7                    | 1.60          | 0.29       | 5.52    | 7.00             | 2.10       | 3.33    | 8.10          | 2.55       | 3.18    |
| 8                    | 1.64          | 0.29       | 5.57    | 7.18             | 2.13       | 3.37    | 8.31          | 2.59       | 3.21    |
| 9                    | 1.68          | 0.30       | 5.63    | 7.36             | 2.17       | 3.40    | 8.52          | 2.63       | 3.24    |
| 10                   | 1.72          | 0.30       | 5.68    | 7.54             | 2.20       | 3.43    | 8.73          | 2.67       | 3.27    |
| 11                   | 1.77          | 0.31       | 5.73    | 7.72             | 2.23       | 3.46    | 8.94          | 2.71       | 3.30    |
| 12                   | 1.81          | 0.31       | 5.78    | 7.90             | 2.26       | 3.49    | 9.15          | 2.75       | 3.33    |
| 13                   | 1.85          | 0.32       | 5.83    | 8.08             | 2.30       | 3.52    | 9.35          | 2.79       | 3.36    |
| 14                   | 1.89          | 0.32       | 5.88    | 8.26             | 2.33       | 3.55    | 9.56          | 2.83       | 3.38    |
| 15                   | 1.93          | 0.33       | 5.92    | 8.45             | 2.36       | 3.58    | 9.77          | 2.87       | 3.41    |
| 16                   | 1.97          | 0.33       | 5.97    | 8.63             | 2.39       | 3.61    | 9.98          | 2.91       | 3.44    |
| 17                   | 2.01          | 0.33       | 6.01    | 8.81             | 2.43       | 3.63    | 10.15         | 2.93       | 3.46    |
| 18                   | 2.05          | 0.34       | 6.05    | 8.99             | 2.46       | 3.66    | 10.25         | 2.93       | 3.50    |
| 19                   | 2.10          | 0.34       | 6.09    | 9.17             | 2.49       | 3.68    | 10.36         | 2.93       | 3.53    |
| 20                   | 2.14          | 0.35       | 6.13    | 9.35             | 2.52       | 3.71    | 10.46         | 2.93       | 3.57    |
| 21                   | 2.18          | 0.35       | 6.17    | 9.53             | 2.56       | 3.73    | 10.55         | 2.93       | 3.60    |
| 22                   | 2.22          | 0.36       | 6.21    | 9.71             | 2.59       | 3.75    | 10.65         | 2.93       | 3.64    |
| 23                   | 2.26          | 0.36       | 6.25    | 9.89             | 2.62       | 3.77    | 10.75         | 2.93       | 3.67    |
| 24                   | 2.30          | 0.37       | 6.28    | 10.07            | 2.65       | 3.80    | 10.84         | 2.93       | 3.70    |



# **TOSHIBA CARRIER (THAILAND) CO.,LTD.**

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