

Residential Inverter Heat Pump New SEIYA

Indoor Units

RAS-25E2KVG-ND

RAS-35E2KVG-ND

Outdoor Units



RAS-25E2AVG-ND



RAS-35E2AVG-ND

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1. Line up

| Indoor Unit | Outdoor Unit | Model Name | | Capacity Rank |
|---|---|----------------|----------------|---------------|
| | | FCU | CDU | |
|  |  | RAS-25E2KVG-ND | RAS-25E2AVG-ND | 10k |
| | | RAS-35E2KVG-ND | RAS-35E2AVG-ND | 13k |

| Accessories | |
|--|--|
|  <p>① ② ③</p> | <p>① Standard remote controller WH-TG01NE</p> <p>② Option weekly remote controller RB-RXS33-E</p> <p>③ Option Black remote controller RB-RXS34-E</p> |
|  | <p>Accessory Wireless adapter RB-N105S-G without cable RB-N106S-G with cable for outside unit installation</p> <p>Application Toshiba Home AC Control</p> |

2. Specifications

| | | | | |
|---------------------------------|-----------------------|--------------------|---|-----------------|
| System | Indoor | | RAS-25E2KVG-ND | RAS-35E2KVG-ND |
| | Outdoor | | RAS-25E2AVG-ND | RAS-35E2AVG-ND |
| Power supply | | (V/Ph/Hz) | 220 - 240 / 1 / 50 | |
| Cooling | Capacity | (kW) | 2.5 | 3.5 |
| | Power Consumption | (kW) | 0.6 | 1.05 |
| | EER | | 4.17 | 3.33 |
| | PdesignC | (kW) | 2.50 | 3.50 |
| | SEER | | 6.50 | 6.50 |
| | Indoor Noise (H/L/Q) | (dB) | 42/24/19 | 43/24/20 |
| | Outdoor Noise | (dB) | 48 | 49 |
| | Indoor Air Flow | m ³ /hr | 690 | 730 |
| Heating | Capacity | (kW) | 3.2 | 4.2 |
| | Power Consumption | (kW) | 0.75 | 1.08 |
| | COP | | 4.27 | 3.89 |
| | PdesignH (Tbiv -10°C) | (kW) | 2.80 | 3.40 |
| | SCOP | | 4.60 | 4.50 |
| | Indoor Noise (H/L/Q) | (dB) | 44/25/21 | 46/25/21 |
| | Outdoor Noise | (dB) | 49 | 50 |
| | Indoor Air Flow | m ³ /hr | 720 | 850 |
| FCU | Dimensions | H x W x D (mm) | 293 x 798 x 230 | |
| | | Net Weight (kg) | 10 | 10 |
| CDU | Dimensions | H x W x D (mm) | 550 x 780 x 290 | |
| | | Net Weight (kg) | 30 | 34 |
| Pipe | Chargeless | (m) | 15 | 15 |
| | Maximum Length | (m) | 20 | 20 |
| | Maximum Height | (m) | 12 | 12 |
| | Refrigerant | | R32 | |
| | Refrigerant amount | (kg) | 0.67 | 0.80 |
| 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: (-25) ~ 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.

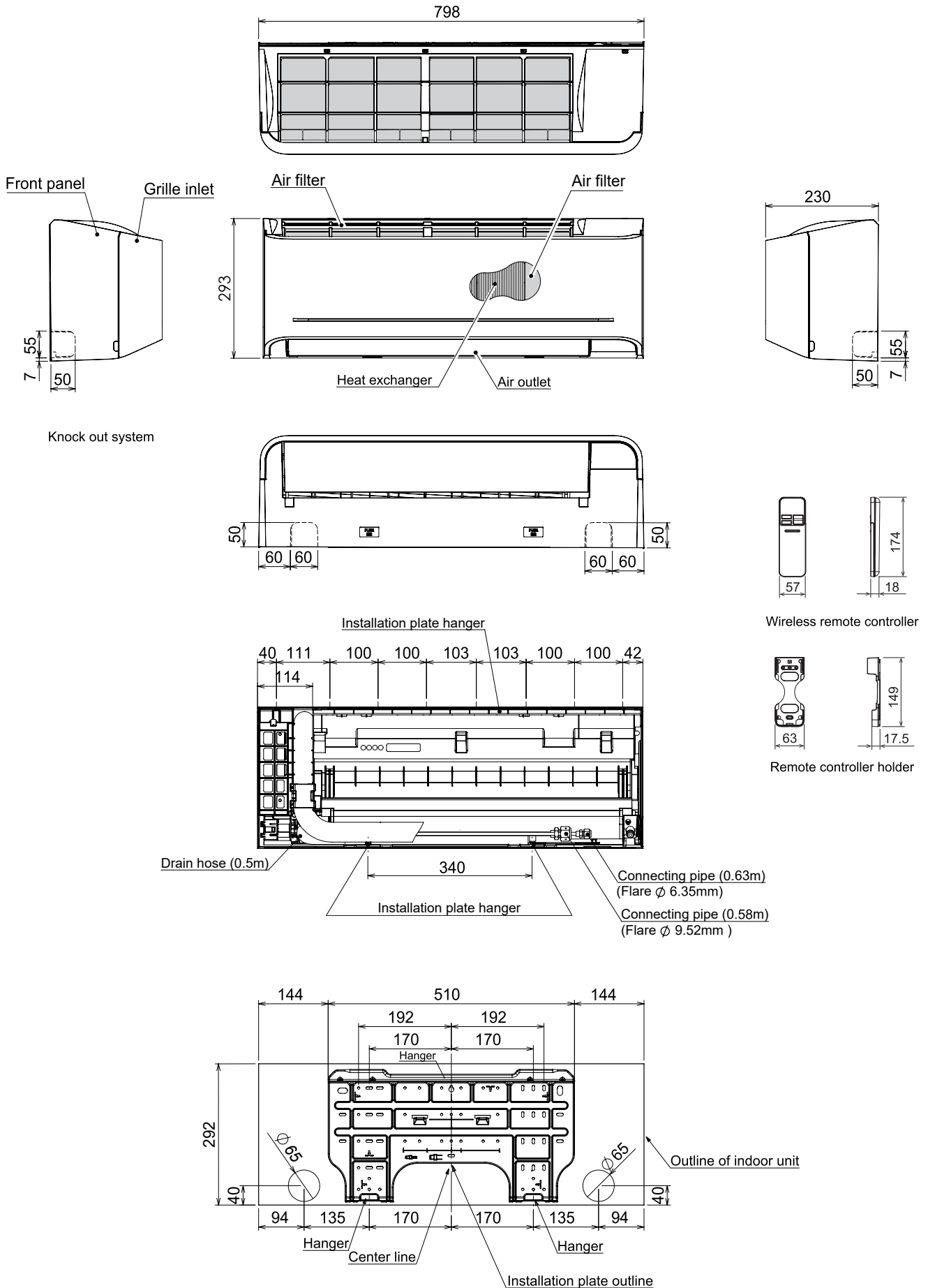
Cooling : Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)

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

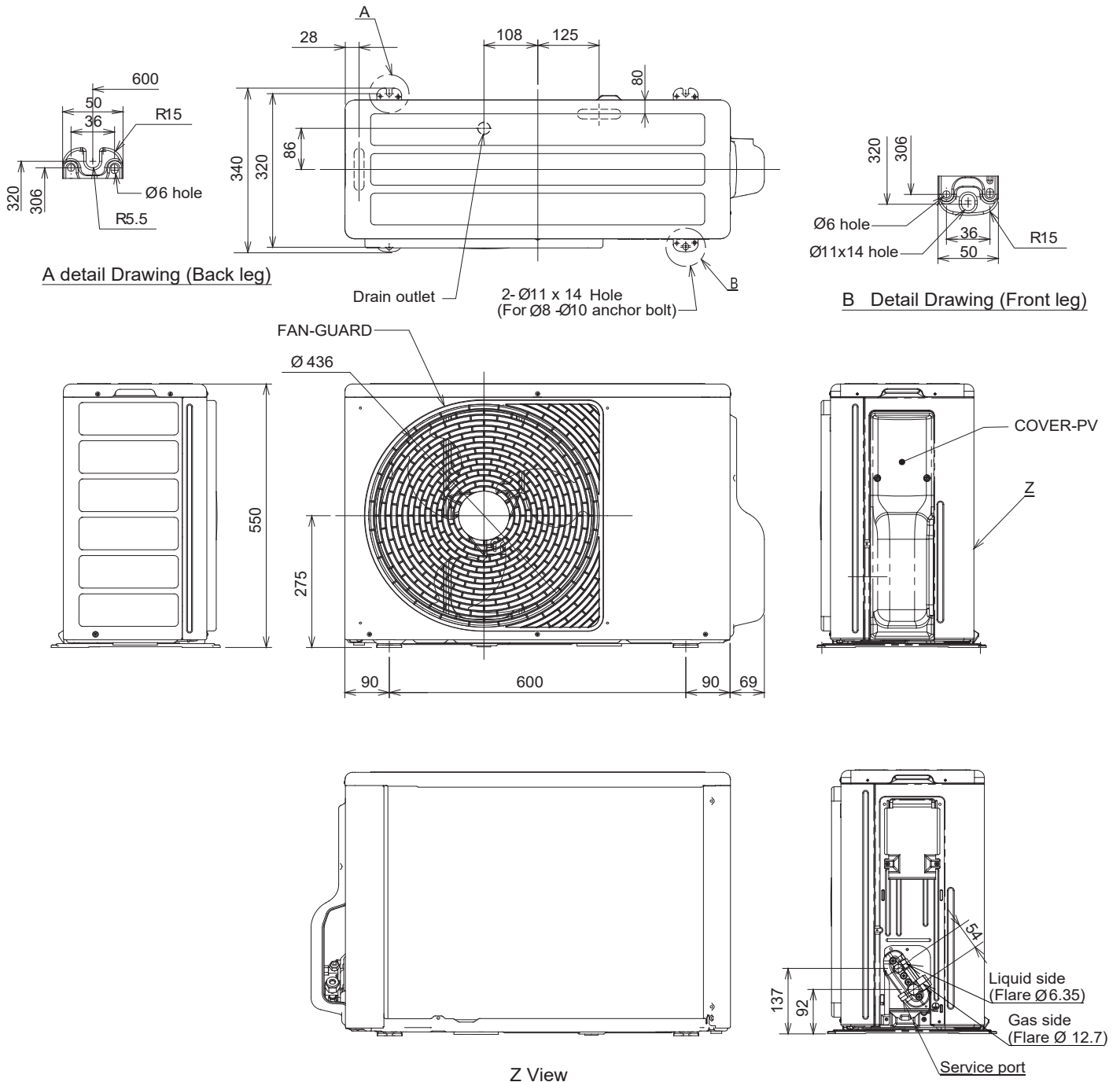
Piping length : 5 m per Indoor Unit.

3. Dimension

Indoor Unit : RAS-25E2KVG-ND / RAS-35E2KVG-ND

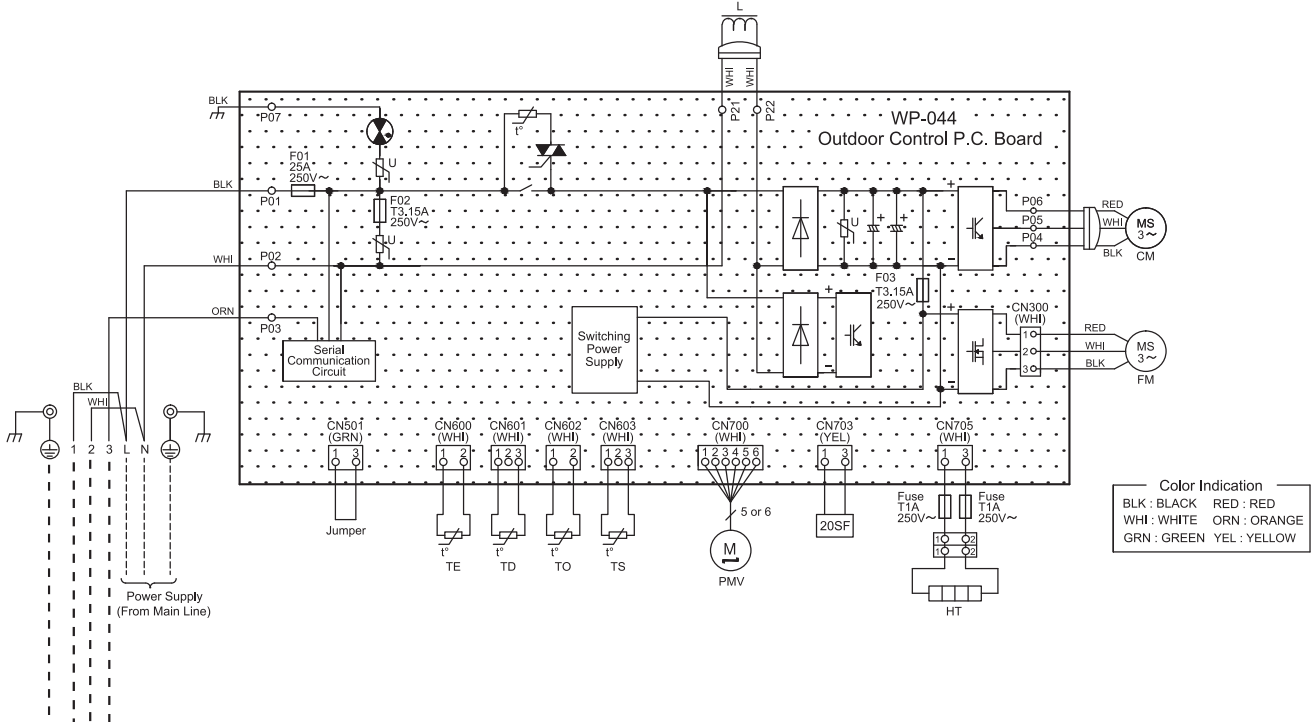


Outdoor Unit : RAS-25E2AVG-ND / RAS-35E2AVG-ND



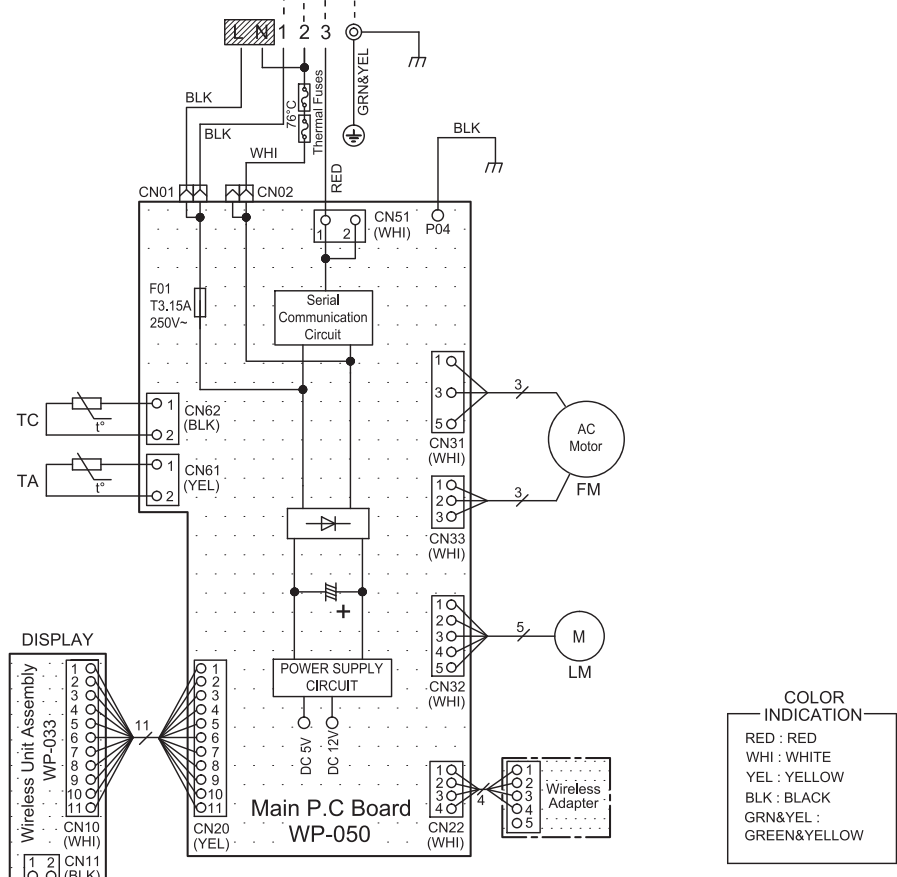
4. Wiring diagrams

RAS-25E2KVG-ND : RAS-25E2AVG-ND
 RAS-35E2KVG-ND : RAS-35E2AVG-ND



Color Indication

| | | | |
|-----|---------|-----|----------|
| BLK | : BLACK | RED | : RED |
| WHI | : WHITE | ORN | : ORANGE |
| GRN | : GREEN | YEL | : YELLOW |

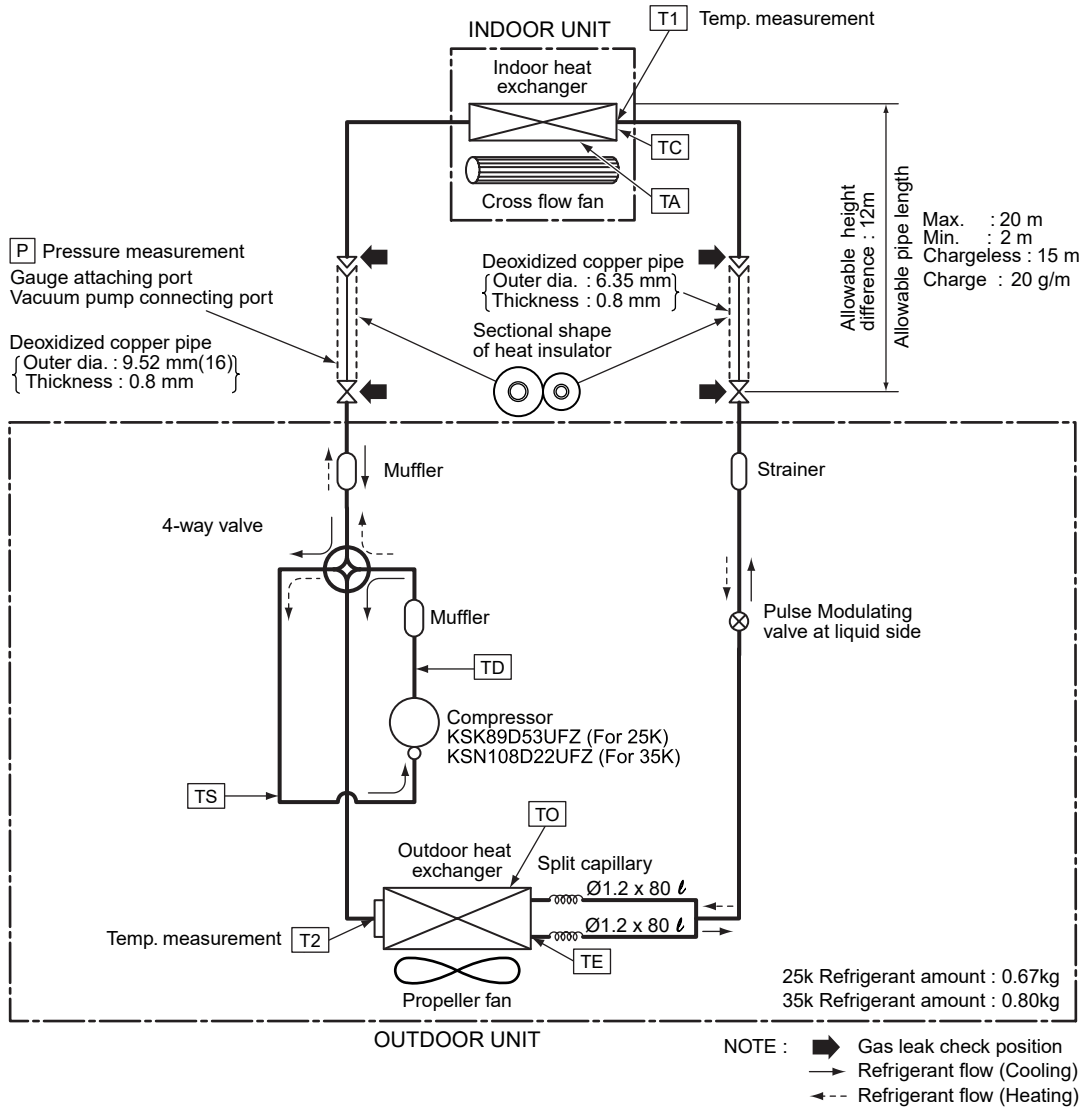


COLOR INDICATION

| | |
|---------|----------------|
| RED | : RED |
| WHI | : WHITE |
| YEL | : YELLOW |
| BLK | : BLACK |
| GRN&YEL | : GREEN&YELLOW |

5. Refrigerant cycle diagram

RAS-25E2KVG-ND : RAS-25E2AVG-ND
 RAS-35E2KVG-ND : RAS-35E2AVG-ND



NOTE :

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

Operation Data

<Cooling>

| Temperature condition(° C) | | Model name RAS- | Standard pressure P (MPa) | Heat exchanger pipe temp. | | Indoor fan mode | Outdoor fan mode | Compressor revolution (rps) | Connecting Piping (m) |
|----------------------------|---------|-----------------|---------------------------|---------------------------|----------|-----------------|------------------|-----------------------------|-----------------------|
| Indoor | Outdoor | | | T1 (°C) | T2 (°C) | | | | |
| 27/19 | 35/- | 25E2KVG-ND | 1.1 to 1.2 | 14 to 15 | 41 to 42 | High | High | 42 | 5 |
| | | 35E2KVG-ND | 1.0 to 1.1 | 12 to 13 | 43 to 44 | High | High | 55 | |

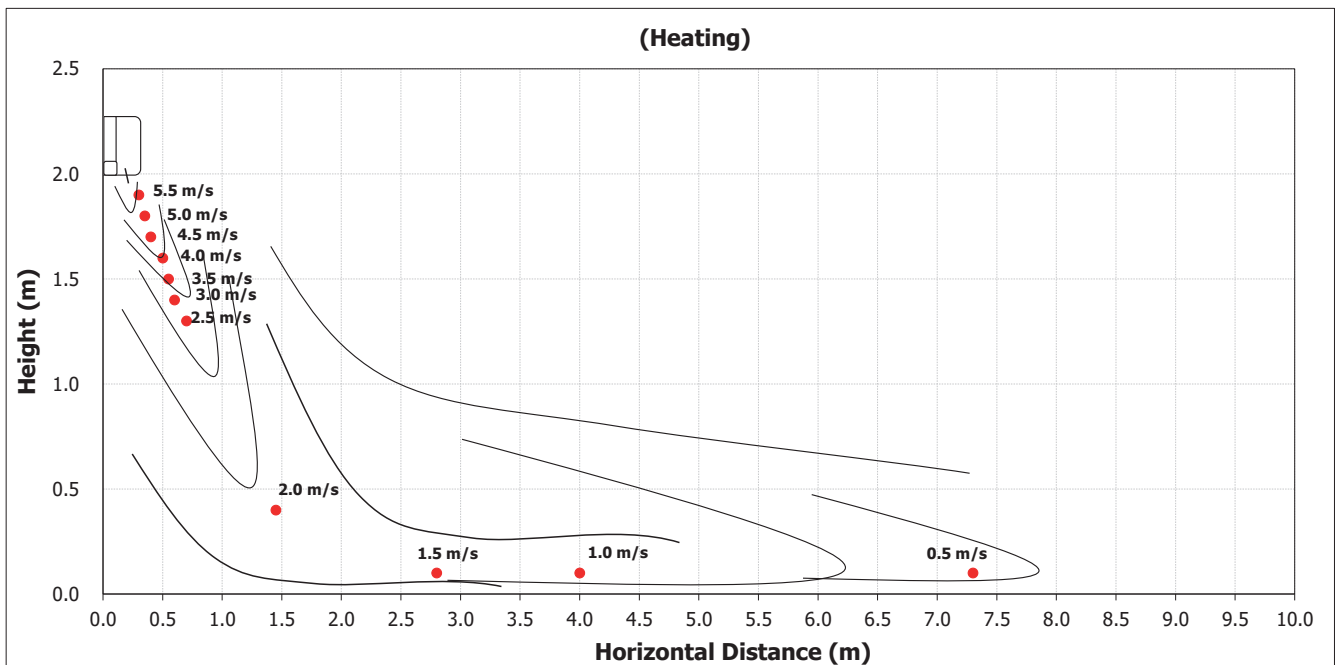
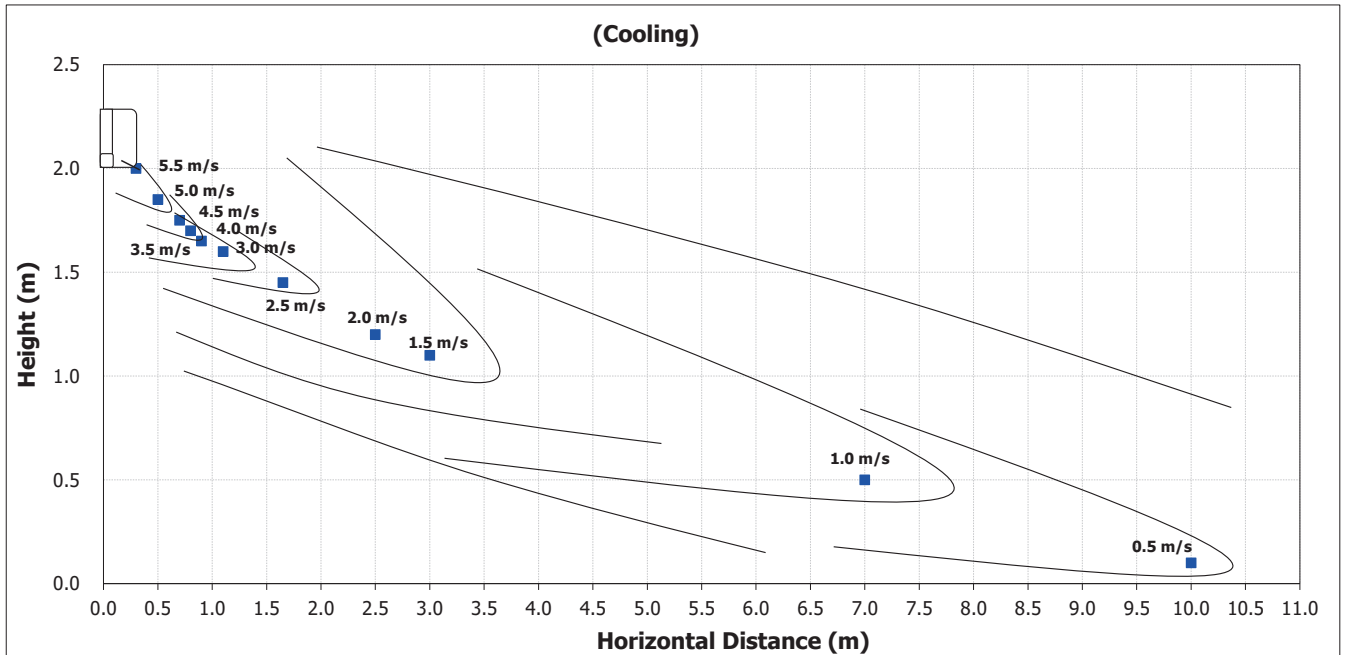
<Heating>

| Temperature condition(° C) | | Model name RAS- | Standard pressure P (MPa) | Heat exchanger pipe temp. | | Indoor fan mode | Outdoor fan mode | Compressor revolution (rps) | Connecting Piping (m) |
|----------------------------|---------|-----------------|---------------------------|---------------------------|---------|-----------------|------------------|-----------------------------|-----------------------|
| Indoor | Outdoor | | | T1 (°C) | T2 (°C) | | | | |
| 20/- | 7/6 | 25E2KVG-ND | 2.3 to 2.4 | 34 to 35 | 2 to 3 | High | High | 57 | 5 |
| | | 35E2KVG-ND | 2.8 to 2.9 | 38 to 39 | 1 to 2 | High | High | 64 | |

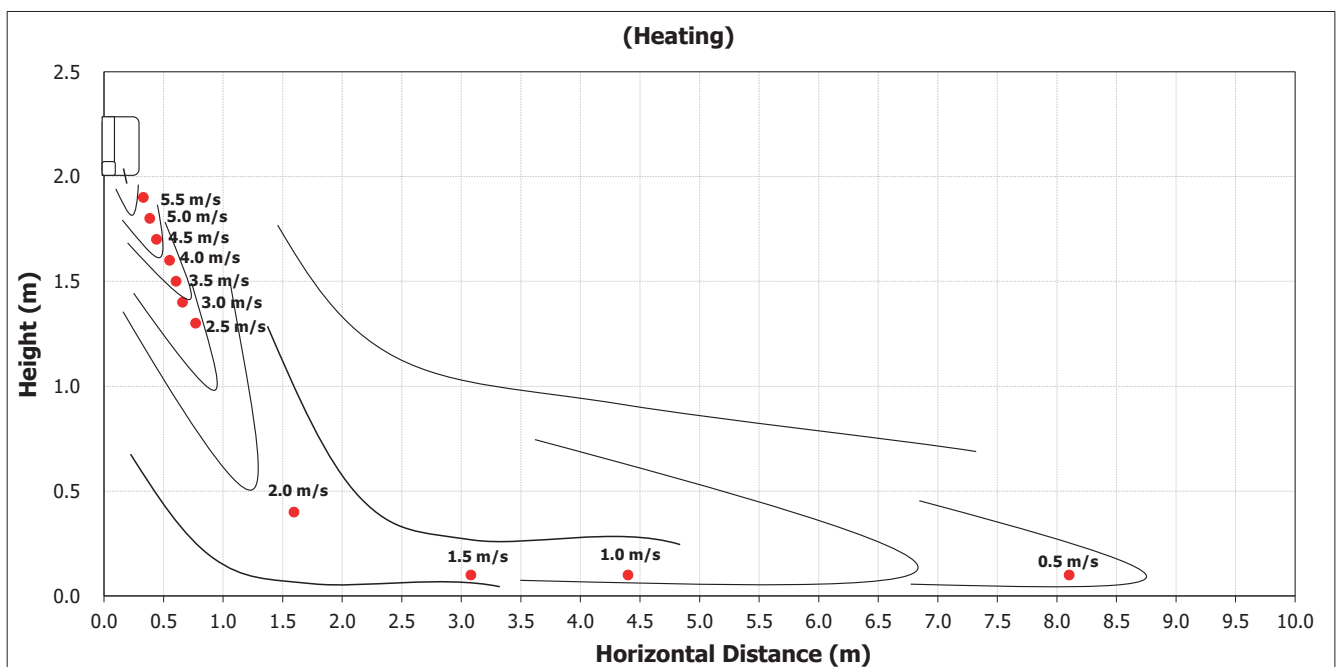
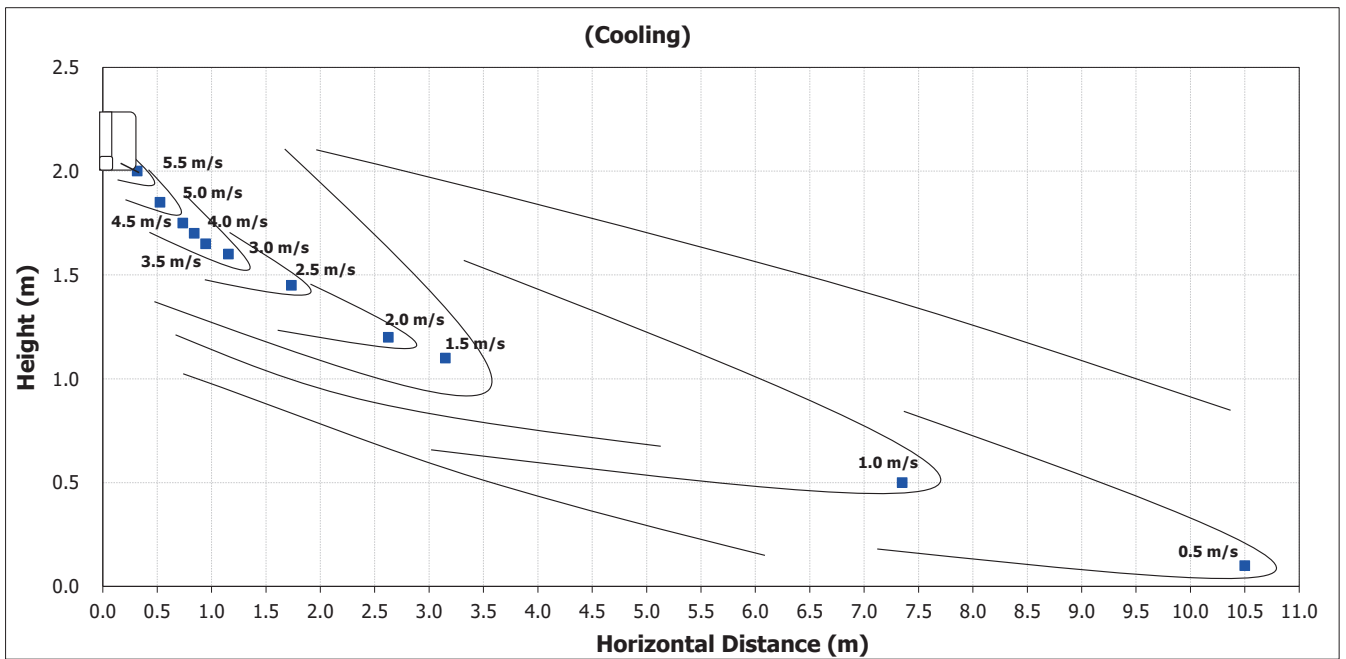
NOTES : Measure surface temperature of heat exchanger pipe around center of heat exchanger path U bent. (Thermistor thermometer)

6. Air speed distribution

RAS-25E2KVG-ND



RAS-35E2KVG-ND

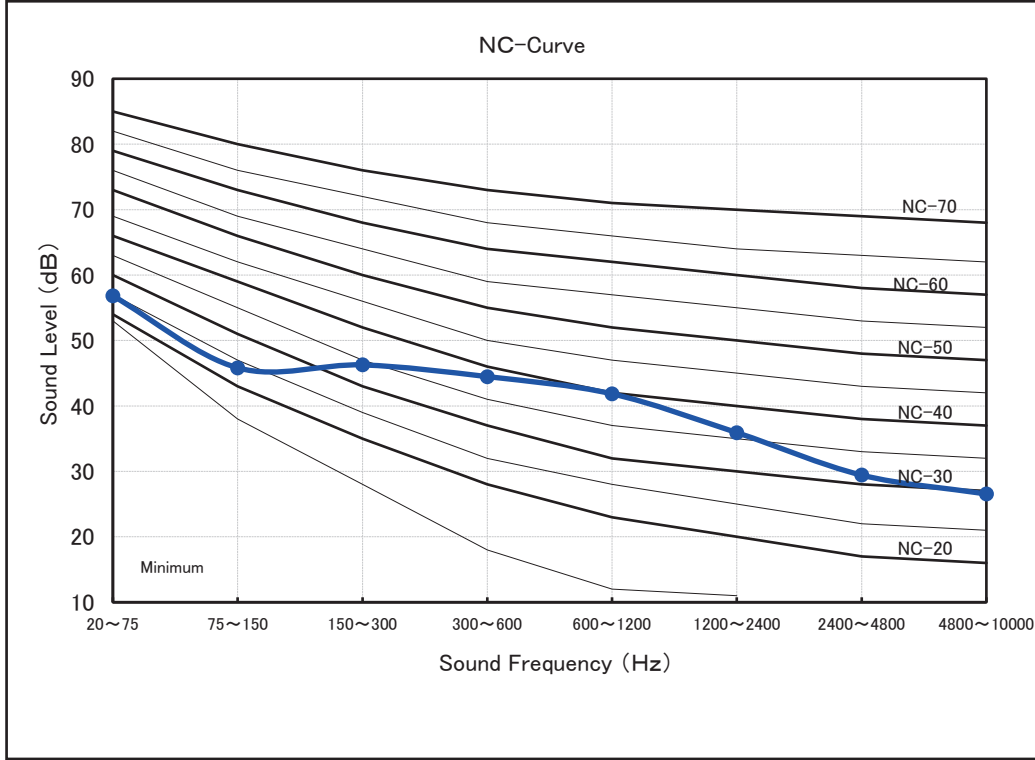


7. Sound Characteristics (NC Curve)

RAS-25E2AVG-ND

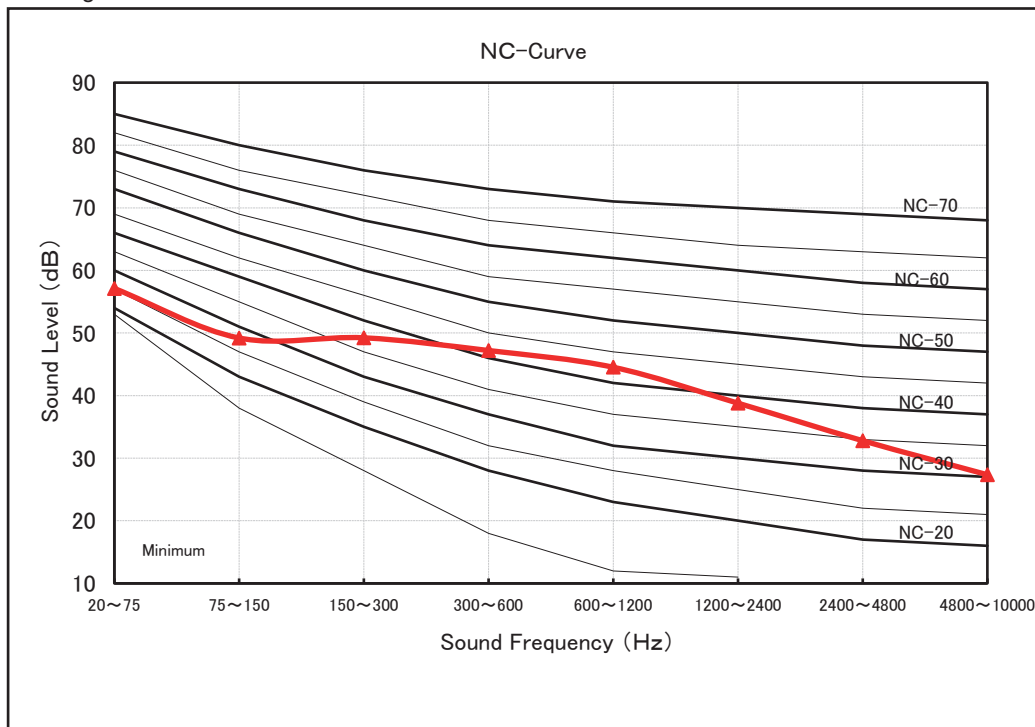
| | |
|------------------|---------------|
| Measured point | Specification |
| | Cooling |
| Horizontal 1.0 m | 48 |

Cooling



| | |
|------------------|---------------|
| Measured point | Specification |
| | Heating |
| Horizontal 1.0 m | 49 |

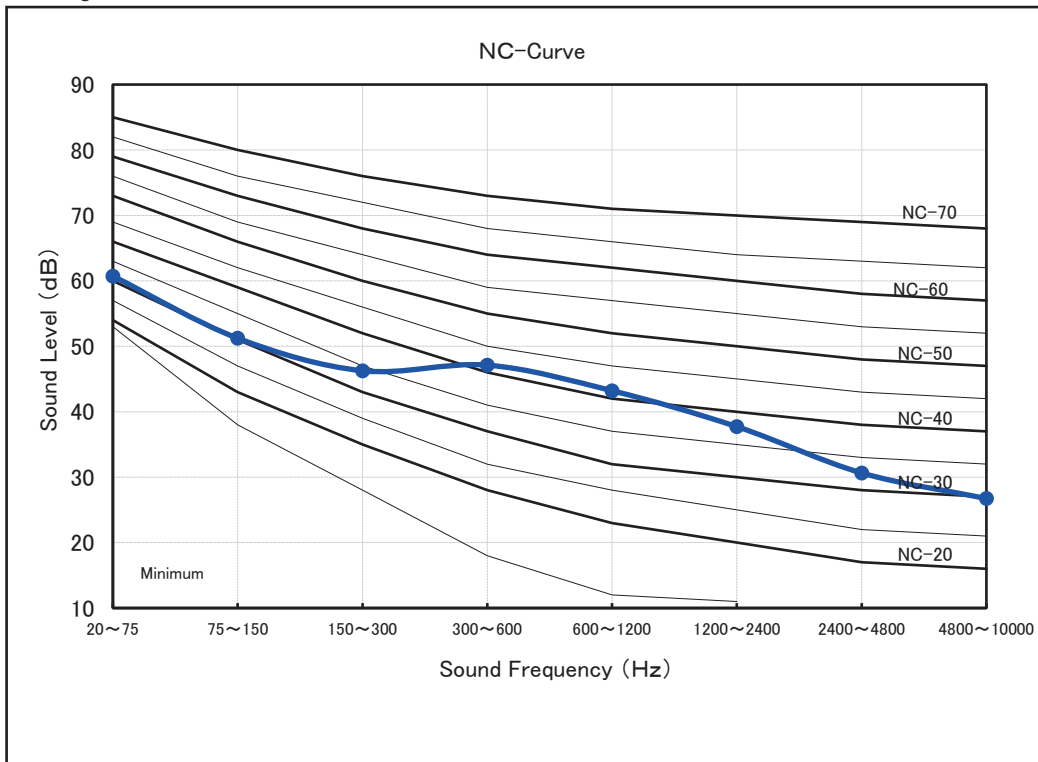
Heating



RAS-35E2AVG-ND

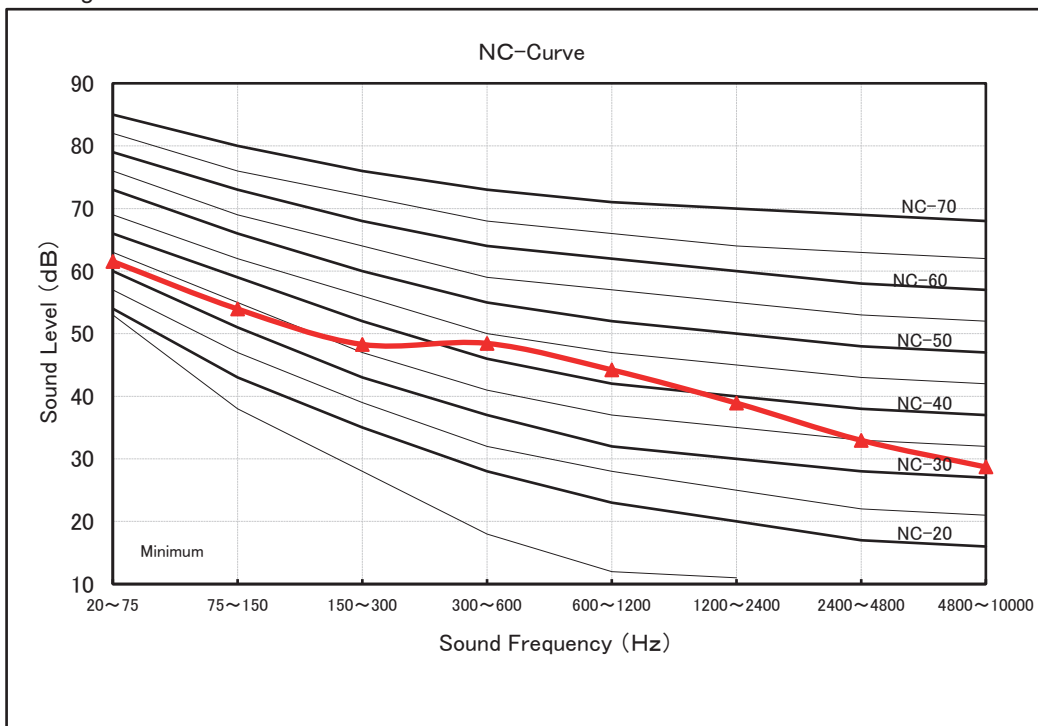
| | |
|------------------|---------------|
| Measured point | Specification |
| | Cooling |
| Horizontal 1.0 m | 49 |

Cooling



| | |
|------------------|---------------|
| Measured point | Specification |
| | Heating |
| Horizontal 1.0 m | 50 |

Heating



8. Capacity table

Product models : RAS-25E2KVG-ND : RAS-25E2AVG-ND

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) | 2.00 |

| Outdoor air temperature DB (°C) | Indoor air temperature | | | | | | | | | | | | | |
|------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
| | 20.0°C (DB) 14.0°C (WB) | | 23.0°C (DB) 16.0°C (WB) | | 26.0°C (DB) 18.0°C (WB) | | 27.0°C (DB) 19.0°C (WB) | | 28.0°C (DB) 20.0°C (WB) | | 30.0°C (DB) 22.0°C (WB) | | 32.0°C (DB) 24.0°C (WB) | |
| | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 2.45 | 2.11 | 2.70 | 2.25 | 2.90 | 2.39 | 2.98 | 2.39 | 3.07 | 2.38 | 3.25 | 2.36 | 3.40 | 2.32 |
| 21 | 2.42 | 2.09 | 2.68 | 2.22 | 2.86 | 2.36 | 2.95 | 2.36 | 3.03 | 2.36 | 3.21 | 2.34 | 3.36 | 2.29 |
| 22 | 2.40 | 2.06 | 2.65 | 2.20 | 2.83 | 2.34 | 2.92 | 2.33 | 3.00 | 2.33 | 3.18 | 2.31 | 3.32 | 2.27 |
| 23 | 2.37 | 2.04 | 2.62 | 2.17 | 2.80 | 2.31 | 2.89 | 2.31 | 2.97 | 2.31 | 3.14 | 2.29 | 3.29 | 2.24 |
| 24 | 2.34 | 2.02 | 2.59 | 2.15 | 2.77 | 2.29 | 2.85 | 2.28 | 2.93 | 2.28 | 3.11 | 2.26 | 3.25 | 2.22 |
| 25 | 2.32 | 1.99 | 2.56 | 2.13 | 2.74 | 2.26 | 2.82 | 2.26 | 2.90 | 2.26 | 3.07 | 2.23 | 3.21 | 2.19 |
| 26 | 2.29 | 1.97 | 2.53 | 2.10 | 2.71 | 2.23 | 2.79 | 2.23 | 2.87 | 2.23 | 3.04 | 2.21 | 3.18 | 2.17 |
| 27 | 2.26 | 1.95 | 2.50 | 2.08 | 2.68 | 2.21 | 2.76 | 2.21 | 2.84 | 2.20 | 3.00 | 2.18 | 3.14 | 2.14 |
| 28 | 2.24 | 1.93 | 2.47 | 2.05 | 2.65 | 2.18 | 2.72 | 2.18 | 2.80 | 2.18 | 2.97 | 2.16 | 3.10 | 2.12 |
| 29 | 2.21 | 1.90 | 2.44 | 2.03 | 2.62 | 2.16 | 2.69 | 2.15 | 2.77 | 2.15 | 2.93 | 2.13 | 3.07 | 2.09 |
| 30 | 2.19 | 1.88 | 2.41 | 2.01 | 2.58 | 2.13 | 2.66 | 2.13 | 2.74 | 2.13 | 2.90 | 2.11 | 3.03 | 2.07 |
| 31 | 2.16 | 1.86 | 2.38 | 1.98 | 2.55 | 2.11 | 2.63 | 2.10 | 2.70 | 2.10 | 2.86 | 2.08 | 2.99 | 2.04 |
| 32 | 2.13 | 1.84 | 2.36 | 1.96 | 2.52 | 2.08 | 2.60 | 2.08 | 2.67 | 2.08 | 2.83 | 2.06 | 2.96 | 2.02 |
| 33 | 2.11 | 1.81 | 2.33 | 1.93 | 2.49 | 2.05 | 2.56 | 2.05 | 2.64 | 2.05 | 2.79 | 2.03 | 2.92 | 1.99 |
| 34 | 2.08 | 1.79 | 2.30 | 1.91 | 2.46 | 2.03 | 2.53 | 2.03 | 2.60 | 2.02 | 2.76 | 2.01 | 2.88 | 1.97 |
| 35 | 2.05 | 1.77 | 2.27 | 1.88 | 2.43 | 2.00 | 2.50 | 2.00 | 2.57 | 2.00 | 2.72 | 1.98 | 2.85 | 1.94 |
| 36 | 2.03 | 1.74 | 2.24 | 1.86 | 2.40 | 1.98 | 2.47 | 1.97 | 2.54 | 1.97 | 2.69 | 1.95 | 2.81 | 1.92 |
| 37 | 2.00 | 1.72 | 2.21 | 1.84 | 2.37 | 1.95 | 2.44 | 1.95 | 2.51 | 1.95 | 2.65 | 1.93 | 2.78 | 1.89 |
| 38 | 1.97 | 1.70 | 2.18 | 1.81 | 2.34 | 1.93 | 2.40 | 1.92 | 2.47 | 1.92 | 2.62 | 1.90 | 2.74 | 1.87 |
| 39 | 1.95 | 1.68 | 2.15 | 1.79 | 2.30 | 1.90 | 2.37 | 1.90 | 2.44 | 1.90 | 2.58 | 1.88 | 2.70 | 1.84 |
| 40 | 1.92 | 1.65 | 2.12 | 1.76 | 2.27 | 1.87 | 2.34 | 1.87 | 2.41 | 1.87 | 2.55 | 1.85 | 2.67 | 1.82 |
| 41 | 1.90 | 1.63 | 2.09 | 1.74 | 2.24 | 1.85 | 2.31 | 1.85 | 2.37 | 1.84 | 2.51 | 1.83 | 2.63 | 1.79 |
| 42 | 1.87 | 1.61 | 2.06 | 1.72 | 2.21 | 1.82 | 2.28 | 1.82 | 2.34 | 1.82 | 2.48 | 1.80 | 2.59 | 1.77 |
| 43 | 1.84 | 1.59 | 2.03 | 1.69 | 2.18 | 1.80 | 2.24 | 1.79 | 2.31 | 1.79 | 2.44 | 1.78 | 2.56 | 1.74 |
| 44 | 1.82 | 1.56 | 2.01 | 1.67 | 2.15 | 1.77 | 2.21 | 1.77 | 2.27 | 1.77 | 2.41 | 1.75 | 2.52 | 1.72 |
| 45 | 1.79 | 1.54 | 1.98 | 1.64 | 2.12 | 1.75 | 2.18 | 1.74 | 2.24 | 1.74 | 2.37 | 1.73 | 2.48 | 1.69 |
| 46 | 1.76 | 1.52 | 1.95 | 1.62 | 2.09 | 1.72 | 2.15 | 1.72 | 2.21 | 1.72 | 2.34 | 1.70 | 2.45 | 1.67 |

Product models : RAS-35E2KVG-ND : RAS-35E2AVG-ND

Specification of product at standard condition

Standard Condition

| | |
|---------|-----------------------|
| Indoor | 27°C (DB) / 19°C (WB) |
| Outdoor | 35°C (DB) / 24°C (WB) |

| | |
|------------------------------|---------|
| Total Cooling Capacity (TC) | 3.50 kW |
| Sensible Heat Capacity (SHC) | 2.70 kW |

| Outdoor air temperature DB (°C) | Indoor air temperature | | | | | | | | | | | | | |
|------------------------------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
| | 20.0°C (DB) 14.0°C (WB) | | 23.0°C (DB) 16.0°C (WB) | | 26.0°C (DB) 18.0°C (WB) | | 27.0°C (DB) 19.0°C (WB) | | 28.0°C (DB) 20.0°C (WB) | | 30.0°C (DB) 22.0°C (WB) | | 32.0°C (DB) 24.0°C (WB) | |
| | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 3.43 | 2.85 | 3.79 | 3.04 | 4.05 | 3.23 | 4.17 | 3.22 | 4.29 | 3.21 | 4.55 | 3.18 | 4.76 | 3.11 |
| 21 | 3.39 | 2.82 | 3.75 | 3.01 | 4.01 | 3.19 | 4.13 | 3.19 | 4.25 | 3.18 | 4.50 | 3.14 | 4.70 | 3.07 |
| 22 | 3.35 | 2.79 | 3.70 | 2.97 | 3.97 | 3.16 | 4.08 | 3.15 | 4.20 | 3.15 | 4.45 | 3.11 | 4.65 | 3.04 |
| 23 | 3.32 | 2.76 | 3.66 | 2.94 | 3.92 | 3.12 | 4.04 | 3.12 | 4.15 | 3.11 | 4.40 | 3.07 | 4.60 | 3.01 |
| 24 | 3.28 | 2.73 | 3.62 | 2.91 | 3.88 | 3.09 | 3.99 | 3.08 | 4.11 | 3.08 | 4.35 | 3.04 | 4.55 | 2.97 |
| 25 | 3.24 | 2.70 | 3.58 | 2.87 | 3.84 | 3.06 | 3.95 | 3.05 | 4.06 | 3.04 | 4.30 | 3.01 | 4.50 | 2.94 |
| 26 | 3.21 | 2.67 | 3.54 | 2.84 | 3.79 | 3.02 | 3.90 | 3.01 | 4.02 | 3.01 | 4.25 | 2.97 | 4.45 | 2.91 |
| 27 | 3.17 | 2.64 | 3.50 | 2.81 | 3.75 | 2.99 | 3.86 | 2.98 | 3.97 | 2.97 | 4.20 | 2.94 | 4.40 | 2.87 |
| 28 | 3.13 | 2.61 | 3.46 | 2.78 | 3.71 | 2.95 | 3.81 | 2.94 | 3.92 | 2.94 | 4.16 | 2.90 | 4.35 | 2.84 |
| 29 | 3.10 | 2.58 | 3.42 | 2.74 | 3.66 | 2.92 | 3.77 | 2.91 | 3.88 | 2.90 | 4.11 | 2.87 | 4.29 | 2.81 |
| 30 | 3.06 | 2.55 | 3.38 | 2.71 | 3.62 | 2.88 | 3.72 | 2.87 | 3.83 | 2.87 | 4.06 | 2.83 | 4.24 | 2.77 |
| 31 | 3.02 | 2.52 | 3.34 | 2.68 | 3.57 | 2.85 | 3.68 | 2.84 | 3.78 | 2.83 | 4.01 | 2.80 | 4.19 | 2.74 |
| 32 | 2.99 | 2.48 | 3.30 | 2.65 | 3.53 | 2.81 | 3.63 | 2.80 | 3.74 | 2.80 | 3.96 | 2.77 | 4.14 | 2.71 |
| 33 | 2.95 | 2.45 | 3.26 | 2.61 | 3.49 | 2.78 | 3.59 | 2.77 | 3.69 | 2.76 | 3.91 | 2.73 | 4.09 | 2.67 |
| 34 | 2.91 | 2.42 | 3.22 | 2.58 | 3.44 | 2.74 | 3.54 | 2.73 | 3.65 | 2.73 | 3.86 | 2.70 | 4.04 | 2.64 |
| 35 | 2.87 | 2.39 | 3.17 | 2.55 | 3.40 | 2.71 | 3.50 | 2.70 | 3.60 | 2.70 | 3.81 | 2.66 | 3.99 | 2.61 |
| 36 | 2.84 | 2.36 | 3.13 | 2.51 | 3.36 | 2.67 | 3.46 | 2.67 | 3.55 | 2.66 | 3.76 | 2.63 | 3.94 | 2.57 |
| 37 | 2.80 | 2.33 | 3.09 | 2.48 | 3.31 | 2.64 | 3.41 | 2.63 | 3.51 | 2.63 | 3.71 | 2.60 | 3.89 | 2.54 |
| 38 | 2.76 | 2.30 | 3.05 | 2.45 | 3.27 | 2.60 | 3.37 | 2.60 | 3.46 | 2.59 | 3.67 | 2.56 | 3.83 | 2.50 |
| 39 | 2.73 | 2.27 | 3.01 | 2.42 | 3.23 | 2.57 | 3.32 | 2.56 | 3.42 | 2.56 | 3.62 | 2.53 | 3.78 | 2.47 |
| 40 | 2.69 | 2.24 | 2.97 | 2.38 | 3.18 | 2.53 | 3.28 | 2.53 | 3.37 | 2.52 | 3.57 | 2.49 | 3.73 | 2.44 |
| 41 | 2.65 | 2.21 | 2.93 | 2.35 | 3.14 | 2.50 | 3.23 | 2.49 | 3.32 | 2.49 | 3.52 | 2.46 | 3.68 | 2.40 |
| 42 | 2.62 | 2.18 | 2.89 | 2.32 | 3.09 | 2.46 | 3.19 | 2.46 | 3.28 | 2.45 | 3.47 | 2.42 | 3.63 | 2.37 |
| 43 | 2.58 | 2.15 | 2.85 | 2.29 | 3.05 | 2.43 | 3.14 | 2.42 | 3.23 | 2.42 | 3.42 | 2.39 | 3.58 | 2.34 |
| 44 | 2.54 | 2.12 | 2.81 | 2.25 | 3.01 | 2.40 | 3.10 | 2.39 | 3.18 | 2.38 | 3.37 | 2.36 | 3.53 | 2.30 |
| 45 | 2.51 | 2.09 | 2.77 | 2.22 | 2.96 | 2.36 | 3.05 | 2.35 | 3.14 | 2.35 | 3.32 | 2.32 | 3.48 | 2.27 |
| 46 | 2.47 | 2.05 | 2.73 | 2.19 | 2.92 | 2.33 | 3.01 | 2.32 | 3.09 | 2.31 | 3.27 | 2.29 | 3.42 | 2.24 |

9. Part Load Performance

Indoor : RAS-25E2KVG-ND

Outdoor : RAS-25E2AVG-ND

| Operation range | Cooling | |
|-----------------|---------|-----|
| | Q | P |
| MINIMUM | W 1200 | 270 |
| RATING | W 2500 | 600 |
| MAXIMUM | W 3200 | 920 |

Cooling

| Outdoor Temperature DB (°C) | Parts Load (%) | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
| | 100 (Max) | | 90 | | 80 | | 78 (Rate) | | 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 | 3816 | 722 | 3434 | 641 | 3053 | 559 | 2982 | 471 | 2290 | 355 | 1908 | 292 | 1526 | 228 | 1431 | 212 | 1431 | 212 | 1431 | 212 |
| 21 | 3775 | 735 | 3397 | 652 | 3020 | 569 | 2950 | 480 | 2265 | 362 | 1887 | 297 | 1510 | 232 | 1416 | 216 | 1416 | 216 | 1416 | 216 |
| 22 | 3734 | 749 | 3360 | 664 | 2987 | 579 | 2918 | 488 | 2240 | 368 | 1867 | 302 | 1494 | 236 | 1400 | 220 | 1400 | 220 | 1400 | 220 |
| 23 | 3693 | 762 | 3324 | 676 | 2954 | 590 | 2886 | 497 | 2216 | 375 | 1846 | 308 | 1477 | 240 | 1385 | 224 | 1385 | 224 | 1385 | 224 |
| 24 | 3652 | 775 | 3287 | 687 | 2921 | 600 | 2853 | 506 | 2191 | 381 | 1826 | 313 | 1461 | 245 | 1369 | 227 | 1369 | 227 | 1369 | 227 |
| 25 | 3611 | 788 | 3250 | 699 | 2889 | 610 | 2821 | 514 | 2166 | 388 | 1805 | 318 | 1444 | 249 | 1354 | 231 | 1354 | 231 | 1354 | 231 |
| 26 | 3570 | 801 | 3213 | 711 | 2856 | 620 | 2789 | 523 | 2142 | 394 | 1785 | 324 | 1428 | 253 | 1339 | 235 | 1339 | 235 | 1339 | 235 |
| 27 | 3529 | 815 | 3176 | 722 | 2823 | 630 | 2757 | 531 | 2117 | 401 | 1764 | 329 | 1411 | 257 | 1323 | 239 | 1323 | 239 | 1323 | 239 |
| 28 | 3487 | 828 | 3139 | 734 | 2790 | 641 | 2725 | 540 | 2092 | 407 | 1744 | 334 | 1395 | 261 | 1308 | 243 | 1308 | 243 | 1308 | 243 |
| 29 | 3446 | 841 | 3102 | 746 | 2757 | 651 | 2693 | 549 | 2068 | 414 | 1723 | 340 | 1379 | 265 | 1292 | 247 | 1292 | 247 | 1292 | 247 |
| 30 | 3405 | 854 | 3065 | 758 | 2724 | 661 | 2661 | 557 | 2043 | 420 | 1703 | 345 | 1362 | 270 | 1277 | 251 | 1277 | 251 | 1277 | 251 |
| 31 | 3364 | 867 | 3028 | 769 | 2691 | 671 | 2629 | 566 | 2019 | 427 | 1682 | 350 | 1346 | 274 | 1262 | 255 | 1262 | 255 | 1262 | 255 |
| 32 | 3323 | 880 | 2991 | 781 | 2659 | 681 | 2597 | 574 | 1994 | 433 | 1662 | 356 | 1329 | 278 | 1246 | 258 | 1246 | 258 | 1246 | 258 |
| 33 | 3282 | 894 | 2954 | 793 | 2626 | 692 | 2565 | 583 | 1969 | 440 | 1641 | 361 | 1313 | 282 | 1231 | 262 | 1231 | 262 | 1231 | 262 |
| 34 | 3241 | 907 | 2917 | 804 | 2593 | 702 | 2533 | 592 | 1945 | 446 | 1621 | 366 | 1296 | 286 | 1215 | 266 | 1215 | 266 | 1215 | 266 |
| 35 | 3200 | 920 | 2880 | 816 | 2560 | 712 | 2500 | 600 | 1920 | 453 | 1600 | 372 | 1280 | 290 | 1200 | 270 | 1200 | 270 | 1200 | 270 |
| 36 | 3159 | 933 | 2843 | 828 | 2527 | 722 | 2468 | 609 | 1895 | 459 | 1579 | 377 | 1264 | 294 | 1185 | 274 | 1185 | 274 | 1185 | 274 |
| 37 | 3118 | 946 | 2806 | 839 | 2494 | 732 | 2436 | 617 | 1871 | 466 | 1559 | 382 | 1247 | 299 | 1169 | 278 | 1169 | 278 | 1169 | 278 |
| 38 | 3077 | 960 | 2769 | 851 | 2461 | 743 | 2404 | 626 | 1846 | 472 | 1538 | 388 | 1231 | 303 | 1154 | 282 | 1154 | 282 | 1154 | 282 |
| 39 | 3036 | 973 | 2732 | 863 | 2429 | 753 | 2372 | 635 | 1821 | 479 | 1518 | 393 | 1214 | 307 | 1138 | 285 | 1138 | 285 | 1138 | 285 |
| 40 | 2995 | 986 | 2695 | 874 | 2396 | 763 | 2340 | 643 | 1797 | 485 | 1497 | 398 | 1198 | 311 | 1123 | 289 | 1123 | 289 | 1123 | 289 |
| 41 | 2954 | 999 | 2658 | 886 | 2363 | 773 | 2308 | 652 | 1772 | 492 | 1477 | 403 | 1181 | 315 | 1108 | 293 | 1108 | 293 | 1108 | 293 |
| 42 | 2913 | 1012 | 2621 | 898 | 2330 | 783 | 2276 | 660 | 1748 | 498 | 1456 | 409 | 1165 | 319 | 1092 | 297 | 1092 | 297 | 1092 | 297 |
| 43 | 2871 | 1025 | 2584 | 910 | 2297 | 794 | 2244 | 669 | 1723 | 505 | 1436 | 414 | 1149 | 324 | 1077 | 301 | 1077 | 301 | 1077 | 301 |
| 44 | 2830 | 1039 | 2547 | 921 | 2264 | 804 | 2212 | 678 | 1698 | 511 | 1415 | 419 | 1132 | 328 | 1061 | 305 | 1061 | 305 | 1061 | 305 |
| 45 | 2789 | 1052 | 2510 | 933 | 2231 | 814 | 2180 | 686 | 1674 | 518 | 1395 | 425 | 1116 | 332 | 1046 | 309 | 1046 | 309 | 1046 | 309 |
| 46 | 2748 | 1065 | 2473 | 945 | 2199 | 824 | 2147 | 695 | 1649 | 524 | 1374 | 430 | 1099 | 336 | 1031 | 313 | 1031 | 313 | 1031 | 313 |

Indoor : RAS-25E2KVG-ND

Outdoor : RAS-25E2AVG-ND

| Operation range | Heating | |
|-----------------|---------|------|
| | Q | P |
| MINIMUM | W 1100 | 210 |
| RATING | W 3200 | 750 |
| MAXIMUM | W 5000 | 1400 |

Heating

| Outdoor Temperature DB (°C) | Parts Load (%) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|------|------|------|------|------|------|------|-----------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | 100 (Max) | | 90 | | 80 | | 70 | | 64 (Rate) | | 50 | | 40 | | 30 | | 20 | | 10 | | 9 | |
| | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P |
| -25 | 1600 | 1000 | 1440 | 774 | 1280 | 683 | 1120 | 591 | 1003 | 474 | 783 | 360 | 627 | 279 | 470 | 198 | 345 | 133 | 345 | 133 | 345 | 133 |
| -24 | 1700 | 1020 | 1530 | 790 | 1360 | 696 | 1190 | 603 | 1065 | 484 | 832 | 368 | 666 | 285 | 499 | 202 | 366 | 135 | 366 | 135 | 366 | 135 |
| -23 | 1800 | 1040 | 1620 | 805 | 1440 | 710 | 1260 | 614 | 1128 | 493 | 881 | 375 | 705 | 290 | 529 | 206 | 388 | 138 | 388 | 138 | 388 | 138 |
| -22 | 1900 | 1060 | 1710 | 821 | 1520 | 724 | 1330 | 626 | 1191 | 503 | 930 | 382 | 744 | 296 | 558 | 210 | 409 | 141 | 409 | 141 | 409 | 141 |
| -21 | 2000 | 1080 | 1800 | 836 | 1600 | 737 | 1400 | 638 | 1253 | 512 | 979 | 389 | 783 | 301 | 588 | 214 | 431 | 143 | 431 | 143 | 431 | 143 |
| -20 | 2100 | 1100 | 1890 | 852 | 1680 | 751 | 1470 | 650 | 1316 | 521 | 1028 | 396 | 823 | 307 | 617 | 218 | 452 | 146 | 452 | 146 | 452 | 146 |
| -19 | 2200 | 1120 | 1980 | 867 | 1760 | 765 | 1540 | 662 | 1379 | 531 | 1077 | 404 | 862 | 313 | 646 | 221 | 474 | 149 | 474 | 149 | 474 | 149 |
| -18 | 2300 | 1140 | 2070 | 883 | 1840 | 778 | 1610 | 674 | 1441 | 540 | 1126 | 411 | 901 | 318 | 676 | 225 | 495 | 151 | 495 | 151 | 495 | 151 |
| -17 | 2400 | 1160 | 2160 | 898 | 1920 | 792 | 1680 | 685 | 1504 | 550 | 1175 | 418 | 940 | 324 | 705 | 229 | 517 | 154 | 517 | 154 | 517 | 154 |
| -16 | 2500 | 1180 | 2250 | 914 | 2000 | 806 | 1750 | 697 | 1567 | 559 | 1224 | 425 | 979 | 329 | 734 | 233 | 539 | 157 | 539 | 157 | 539 | 157 |
| -15 | 2600 | 1200 | 2291 | 822 | 2037 | 725 | 1782 | 627 | 1629 | 569 | 1273 | 432 | 1018 | 335 | 764 | 237 | 560 | 159 | 560 | 159 | 560 | 159 |
| -14 | 2680 | 1210 | 2362 | 829 | 2099 | 731 | 1837 | 633 | 1680 | 574 | 1312 | 436 | 1050 | 338 | 787 | 239 | 577 | 161 | 577 | 161 | 577 | 161 |
| -13 | 2760 | 1220 | 2432 | 836 | 2162 | 737 | 1892 | 638 | 1730 | 578 | 1351 | 440 | 1081 | 340 | 811 | 241 | 595 | 162 | 595 | 162 | 595 | 162 |
| -12 | 2840 | 1230 | 2503 | 843 | 2225 | 743 | 1947 | 643 | 1780 | 583 | 1391 | 443 | 1112 | 343 | 834 | 243 | 612 | 163 | 612 | 163 | 612 | 163 |
| -11 | 2920 | 1240 | 2573 | 850 | 2288 | 749 | 2002 | 648 | 1830 | 588 | 1430 | 447 | 1144 | 346 | 858 | 245 | 629 | 165 | 629 | 165 | 629 | 165 |
| -10 | 3000 | 1250 | 2644 | 857 | 2350 | 755 | 2056 | 654 | 1880 | 593 | 1469 | 450 | 1175 | 349 | 881 | 247 | 646 | 166 | 646 | 166 | 646 | 166 |
| -9 | 3058 | 1263 | 2695 | 865 | 2396 | 763 | 2096 | 660 | 1917 | 599 | 1497 | 455 | 1198 | 352 | 898 | 250 | 659 | 168 | 659 | 168 | 659 | 168 |
| -8 | 3117 | 1275 | 2747 | 874 | 2442 | 770 | 2136 | 667 | 1953 | 604 | 1526 | 459 | 1221 | 356 | 916 | 252 | 671 | 169 | 671 | 169 | 671 | 169 |
| -7 | 3175 | 1288 | 2798 | 882 | 2487 | 778 | 2176 | 673 | 1990 | 610 | 1555 | 464 | 1244 | 359 | 933 | 255 | 684 | 171 | 684 | 171 | 684 | 171 |
| -6 | 3233 | 1300 | 2850 | 891 | 2533 | 785 | 2216 | 680 | 2026 | 616 | 1583 | 468 | 1266 | 363 | 950 | 257 | 697 | 173 | 697 | 173 | 697 | 173 |
| -5 | 3292 | 1313 | 2901 | 900 | 2579 | 793 | 2256 | 686 | 2063 | 622 | 1612 | 473 | 1289 | 366 | 967 | 260 | 709 | 174 | 709 | 174 | 709 | 174 |
| -4 | 3350 | 1325 | 2952 | 908 | 2624 | 800 | 2296 | 693 | 2099 | 628 | 1640 | 477 | 1312 | 370 | 984 | 262 | 722 | 176 | 722 | 176 | 722 | 176 |
| -3 | 3408 | 1338 | 3004 | 917 | 2670 | 808 | 2336 | 699 | 2136 | 634 | 1669 | 482 | 1335 | 373 | 1001 | 265 | 734 | 178 | 734 | 178 | 734 | 178 |
| -2 | 3467 | 1350 | 3055 | 925 | 2716 | 816 | 2376 | 706 | 2173 | 640 | 1697 | 486 | 1358 | 377 | 1018 | 267 | 747 | 179 | 747 | 179 | 747 | 179 |
| -1 | 3525 | 1363 | 3107 | 934 | 2761 | 823 | 2416 | 712 | 2209 | 646 | 1726 | 491 | 1381 | 380 | 1036 | 269 | 759 | 181 | 759 | 181 | 759 | 181 |
| 0 | 3583 | 1375 | 3158 | 942 | 2807 | 831 | 2456 | 719 | 2246 | 652 | 1754 | 495 | 1404 | 384 | 1053 | 272 | 772 | 183 | 772 | 183 | 772 | 183 |
| 1 | 3642 | 1388 | 3209 | 951 | 2853 | 838 | 2496 | 725 | 2282 | 658 | 1783 | 500 | 1426 | 387 | 1070 | 274 | 785 | 184 | 785 | 184 | 785 | 184 |
| 2 | 3700 | 1400 | 3261 | 960 | 2899 | 846 | 2536 | 732 | 2319 | 664 | 1812 | 504 | 1449 | 391 | 1087 | 277 | 797 | 186 | 797 | 186 | 797 | 186 |
| 3 | 3767 | 1407 | 3314 | 972 | 2946 | 857 | 2578 | 742 | 2357 | 673 | 1841 | 511 | 1473 | 396 | 1105 | 281 | 809 | 192 | 809 | 192 | 809 | 192 |
| 4 | 3833 | 1414 | 3368 | 985 | 2994 | 869 | 2619 | 752 | 2395 | 682 | 1871 | 518 | 1497 | 401 | 1123 | 284 | 821 | 198 | 821 | 198 | 821 | 198 |
| 5 | 3900 | 1421 | 3421 | 998 | 3041 | 880 | 2661 | 762 | 2433 | 690 | 1901 | 525 | 1520 | 406 | 1140 | 288 | 833 | 203 | 833 | 203 | 833 | 203 |
| 6 | 4071 | 1438 | 3484 | 1067 | 3097 | 941 | 2719 | 814 | 2491 | 738 | 1969 | 551 | 1584 | 435 | 1204 | 308 | 872 | 207 | 872 | 207 | 872 | 207 |
| 7 | 5000 | 1400 | 4500 | 1084 | 4000 | 956 | 3500 | 827 | 3200 | 750 | 2500 | 570 | 2000 | 441 | 1500 | 313 | 1100 | 210 | 1100 | 210 | 1100 | 210 |
| 8 | 5129 | 1422 | 4616 | 1101 | 4103 | 971 | 3590 | 840 | 3283 | 762 | 2565 | 579 | 2052 | 448 | 1539 | 318 | 1128 | 213 | 1128 | 213 | 1128 | 213 |
| 9 | 5258 | 1443 | 4732 | 1118 | 4206 | 985 | 3681 | 853 | 3365 | 773 | 2629 | 588 | 2103 | 455 | 1577 | 323 | 1157 | 217 | 1157 | 217 | 1157 | 217 |
| 10 | 5387 | 1465 | 4848 | 1135 | 4310 | 1000 | 3771 | 866 | 3448 | 785 | 2694 | 596 | 2155 | 462 | 1616 | 327 | 1185 | 220 | 1185 | 220 | 1185 | 220 |
| 11 | 5516 | 1487 | 4965 | 1151 | 4413 | 1015 | 3861 | 878 | 3530 | 796 | 2758 | 605 | 2206 | 469 | 1655 | 332 | 1214 | 223 | 1214 | 223 | 1214 | 223 |
| 12 | 5645 | 1508 | 5081 | 1168 | 4516 | 1030 | 3952 | 891 | 3613 | 808 | 2823 | 614 | 2258 | 476 | 1694 | 337 | 1242 | 226 | 1242 | 226 | 1242 | 226 |
| 13 | 5774 | 1530 | 5197 | 1185 | 4619 | 1045 | 4042 | 904 | 3695 | 820 | 2887 | 623 | 2310 | 482 | 1732 | 342 | 1270 | 230 | 1270 | 230 | 1270 | 230 |
| 14 | 5903 | 1552 | 5313 | 1202 | 4723 | 1059 | 4132 | 917 | 3778 | 831 | 2952 | 632 | 2361 | 489 | 1771 | 347 | 1299 | 233 | 1299 | 233 | 1299 | 233 |
| 15 | 6032 | 1573 | 5429 | 1219 | 4826 | 1074 | 4223 | 930 | 3861 | 843 | 3016 | 641 | 2413 | 496 | 1810 | 352 | 1327 | 236 | 1327 | 236 | 1327 | 236 |
| 16 | 6161 | 1595 | 5545 | 1235 | 4929 | 1089 | 4313 | 942 | 3943 | 855 | 3081 | 649 | 2465 | 503 | 1848 | 356 | 1355 | 239 | 1355 | 239 | 1355 | 239 |
| 17 | 6290 | 1617 | 5661 | 1252 | 5032 | 1104 | 4403 | 955 | 4026 | 866 | 3145 | 658 | 2516 | 510 | 1887 | 361 | 1384 | 243 | 1384 | 243 | 1384 | 243 |
| 18 | 6419 | 1638 | 5777 | 1269 | 5135 | 1118 | 4494 | 968 | 4108 | 878 | 3210 | 667 | 2568 | 517 | 1926 | 366 | 1412 | 246 | 1412 | 246 | 1412 | 246 |
| 19 | 6548 | 1660 | 5894 | 1286 | 5239 | 1133 | 4584 | 981 | 4191 | 889 | 3274 | 676 | 2619 | 523 | 1965 | 371 | 1441 | 249 | 1441 | 249 | 1441 | 249 |
| 20 | 6677 | 1682 | 6010 | 1303 | 5342 | 1148 | 4674 | 994 | 4274 | 901 | 3339 | 685 | 2671 | 530 | 2003 | 376 | 1469 | 252 | 1469 | 252 | 1469 | 252 |
| 21 | 6806 | 1703 | 6126 | 1319 | 5445 | 1163 | 4765 | 1006 | 4356 | 913 | 3403 | 694 | 2723 | 537 | 2042 | 381 | 1497 | 256 | 1497 | 256 | 1497 | 256 |
| 22 | 6935 | 1725 | 6242 | 1336 | 5548 | 1178 | 4855 | 1019 | 4439 | 924 | 3468 | 702 | 2774 | 544 | 2081 | 386 | 1526 | 259 | 1526 | 259 | 1526 | 259 |
| 23 | 7065 | 1747 | 6358 | 1353 | 5652 | 1192 | 4945 | 1032 | 4521 | 936 | 3532 | 711 | 2826 | 551 | 2119 | 390 | 1554 | 262 | 1554 | 262 | 1554 | 262 |
| 24 | 7194 | 1769 | 6474 | 1370 | 5755 | 1207 | 5035 | 1045 | 4604 | 947 | 3597 | 720 | 2877 | 558 | 2158 | 395 | 1583 | 265 | 1583 | 265 | 1583 | 265 |

Indoor : RAS-35E2KVG-ND
 Outdoor : RAS-35E2AVG-ND

| Operation range | Cooling | |
|-----------------|---------|------|
| | Q | P |
| MINIMUM | W 1400 | 340 |
| RATING | W 3500 | 1050 |
| MAXIMUM | W 4400 | 1200 |

Cooling

| Outdoor Temperature DB (°C) | Parts Load (%) | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
| | 100 (Max) | | 90 | | 79 (Rate) | | 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 | 5247 | 942 | 4722 | 843 | 4174 | 824 | 3673 | 713 | 3148 | 596 | 2624 | 479 | 2099 | 362 | 1670 | 267 | 1670 | 267 | 1670 | 267 |
| 21 | 5191 | 959 | 4671 | 858 | 4129 | 839 | 3633 | 726 | 3114 | 607 | 2595 | 488 | 2076 | 369 | 1652 | 272 | 1652 | 272 | 1652 | 272 |
| 22 | 5134 | 976 | 4621 | 874 | 4084 | 854 | 3594 | 739 | 3080 | 618 | 2567 | 497 | 2054 | 376 | 1634 | 277 | 1634 | 277 | 1634 | 277 |
| 23 | 5078 | 994 | 4570 | 889 | 4039 | 869 | 3554 | 752 | 3047 | 629 | 2539 | 505 | 2031 | 382 | 1616 | 282 | 1616 | 282 | 1616 | 282 |
| 24 | 5021 | 1011 | 4519 | 905 | 3994 | 884 | 3515 | 765 | 3013 | 640 | 2511 | 514 | 2008 | 389 | 1598 | 286 | 1598 | 286 | 1598 | 286 |
| 25 | 4965 | 1028 | 4468 | 920 | 3949 | 900 | 3475 | 778 | 2979 | 650 | 2482 | 523 | 1986 | 396 | 1580 | 291 | 1580 | 291 | 1580 | 291 |
| 26 | 4908 | 1045 | 4417 | 935 | 3904 | 915 | 3436 | 791 | 2945 | 661 | 2454 | 532 | 1963 | 402 | 1562 | 296 | 1562 | 296 | 1562 | 296 |
| 27 | 4852 | 1062 | 4367 | 951 | 3859 | 930 | 3396 | 804 | 2911 | 672 | 2426 | 540 | 1941 | 409 | 1544 | 301 | 1544 | 301 | 1544 | 301 |
| 28 | 4795 | 1080 | 4316 | 966 | 3814 | 945 | 3357 | 817 | 2877 | 683 | 2398 | 549 | 1918 | 415 | 1526 | 306 | 1526 | 306 | 1526 | 306 |
| 29 | 4739 | 1097 | 4265 | 982 | 3770 | 960 | 3317 | 830 | 2843 | 694 | 2369 | 558 | 1896 | 422 | 1508 | 311 | 1508 | 311 | 1508 | 311 |
| 30 | 4682 | 1114 | 4214 | 997 | 3725 | 975 | 3278 | 843 | 2809 | 705 | 2341 | 567 | 1873 | 429 | 1490 | 316 | 1490 | 316 | 1490 | 316 |
| 31 | 4626 | 1131 | 4163 | 1012 | 3680 | 990 | 3238 | 856 | 2776 | 716 | 2313 | 575 | 1850 | 435 | 1472 | 321 | 1472 | 321 | 1472 | 321 |
| 32 | 4569 | 1148 | 4112 | 1028 | 3635 | 1005 | 3199 | 869 | 2742 | 727 | 2285 | 584 | 1828 | 442 | 1454 | 325 | 1454 | 325 | 1454 | 325 |
| 33 | 4513 | 1166 | 4062 | 1043 | 3590 | 1020 | 3159 | 882 | 2708 | 737 | 2256 | 593 | 1805 | 448 | 1436 | 330 | 1436 | 330 | 1436 | 330 |
| 34 | 4456 | 1183 | 4011 | 1058 | 3545 | 1035 | 3120 | 895 | 2674 | 748 | 2228 | 602 | 1783 | 455 | 1418 | 335 | 1418 | 335 | 1418 | 335 |
| 35 | 4400 | 1200 | 3960 | 1074 | 3500 | 1050 | 3080 | 908 | 2640 | 759 | 2200 | 610 | 1760 | 462 | 1400 | 340 | 1400 | 340 | 1400 | 340 |
| 36 | 4344 | 1217 | 3909 | 1089 | 3455 | 1065 | 3040 | 921 | 2606 | 770 | 2172 | 619 | 1737 | 468 | 1382 | 345 | 1382 | 345 | 1382 | 345 |
| 37 | 4287 | 1234 | 3858 | 1105 | 3410 | 1080 | 3001 | 934 | 2572 | 781 | 2144 | 628 | 1715 | 475 | 1364 | 350 | 1364 | 350 | 1364 | 350 |
| 38 | 4231 | 1252 | 3808 | 1120 | 3365 | 1095 | 2961 | 947 | 2538 | 792 | 2115 | 637 | 1692 | 482 | 1346 | 355 | 1346 | 355 | 1346 | 355 |
| 39 | 4174 | 1269 | 3757 | 1135 | 3320 | 1110 | 2922 | 960 | 2504 | 803 | 2087 | 645 | 1670 | 488 | 1328 | 359 | 1328 | 359 | 1328 | 359 |
| 40 | 4118 | 1286 | 3706 | 1151 | 3275 | 1125 | 2882 | 973 | 2471 | 814 | 2059 | 654 | 1647 | 495 | 1310 | 364 | 1310 | 364 | 1310 | 364 |
| 41 | 4061 | 1303 | 3655 | 1166 | 3231 | 1140 | 2843 | 986 | 2437 | 825 | 2031 | 663 | 1624 | 501 | 1292 | 369 | 1292 | 369 | 1292 | 369 |
| 42 | 3924 | 1304 | 3531 | 1167 | 3186 | 1155 | 2803 | 999 | 2403 | 835 | 2002 | 672 | 1602 | 508 | 1274 | 374 | 1274 | 374 | 1274 | 374 |
| 43 | 3786 | 1304 | 3408 | 1167 | 3141 | 1170 | 2764 | 1012 | 2369 | 846 | 1974 | 680 | 1579 | 515 | 1256 | 379 | 1256 | 379 | 1256 | 379 |
| 44 | 3653 | 1304 | 3288 | 1167 | 3096 | 1185 | 2724 | 1025 | 2335 | 857 | 1946 | 689 | 1557 | 521 | 1238 | 384 | 1238 | 384 | 1238 | 384 |
| 45 | 3525 | 1304 | 3172 | 1167 | 3051 | 1201 | 2685 | 1038 | 2301 | 868 | 1918 | 698 | 1534 | 528 | 1220 | 389 | 1220 | 389 | 1220 | 389 |
| 46 | 3400 | 1304 | 3000 | 1167 | 3006 | 1216 | 2645 | 1051 | 2267 | 879 | 1889 | 707 | 1512 | 535 | 1202 | 394 | 1202 | 394 | 1202 | 394 |

Indoor : RAS-35E2KVG-ND
 Outdoor : RAS-35E2AVG-ND

| Operation range | Heating | |
|-----------------|---------|------|
| | Q | P |
| MINIMUM | W 1300 | 270 |
| RATING | W 4200 | 1080 |
| MAXIMUM | W 5600 | 1800 |

Heating

| Outdoor Temperature DB (°C) | Parts Load (%) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|------|------|------|------|------|-----------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | 100 (Max) | | 90 | | 80 | | 75 (Rate) | | 60 | | 50 | | 40 | | 30 | | 20 | | 10 | | 9 | |
| | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P | Q | P |
| -25 | 2200 | 1200 | 1980 | 1067 | 1760 | 934 | 1488 | 675 | 1190 | 528 | 992 | 430 | 794 | 333 | 595 | 216 | 461 | 169 | 461 | 169 | 461 | 169 |
| -24 | 2300 | 1220 | 2070 | 1085 | 1840 | 950 | 1556 | 686 | 1244 | 537 | 1037 | 438 | 830 | 338 | 622 | 220 | 481 | 171 | 481 | 171 | 481 | 171 |
| -23 | 2400 | 1240 | 2160 | 1103 | 1920 | 965 | 1623 | 697 | 1299 | 546 | 1082 | 445 | 866 | 344 | 649 | 223 | 502 | 174 | 502 | 174 | 502 | 174 |
| -22 | 2500 | 1260 | 2250 | 1121 | 2000 | 981 | 1691 | 708 | 1353 | 554 | 1127 | 452 | 902 | 349 | 676 | 227 | 523 | 177 | 523 | 177 | 523 | 177 |
| -21 | 2600 | 1280 | 2340 | 1138 | 2080 | 997 | 1758 | 720 | 1407 | 563 | 1172 | 459 | 938 | 355 | 703 | 231 | 544 | 180 | 544 | 180 | 544 | 180 |
| -20 | 2700 | 1300 | 2430 | 1156 | 2160 | 1012 | 1826 | 731 | 1461 | 572 | 1217 | 466 | 974 | 360 | 730 | 234 | 565 | 183 | 565 | 183 | 565 | 183 |
| -19 | 2780 | 1320 | 2502 | 1174 | 2224 | 1028 | 1880 | 742 | 1504 | 581 | 1253 | 473 | 1003 | 366 | 752 | 238 | 582 | 186 | 582 | 186 | 582 | 186 |
| -18 | 2860 | 1340 | 2574 | 1192 | 2288 | 1043 | 1934 | 753 | 1547 | 590 | 1290 | 481 | 1032 | 371 | 774 | 241 | 599 | 188 | 599 | 188 | 599 | 188 |
| -17 | 2940 | 1360 | 2646 | 1209 | 2352 | 1059 | 1988 | 765 | 1591 | 598 | 1326 | 488 | 1060 | 377 | 795 | 245 | 615 | 191 | 615 | 191 | 615 | 191 |
| -16 | 3020 | 1380 | 2718 | 1227 | 2416 | 1074 | 2043 | 776 | 1634 | 607 | 1362 | 495 | 1089 | 383 | 817 | 249 | 632 | 194 | 632 | 194 | 632 | 194 |
| -15 | 3100 | 1400 | 2790 | 1245 | 2480 | 1089 | 2097 | 787 | 1677 | 616 | 1398 | 502 | 1118 | 388 | 839 | 252 | 649 | 197 | 649 | 197 | 649 | 197 |
| -14 | 3200 | 1420 | 2862 | 1263 | 2544 | 1104 | 2151 | 798 | 1731 | 625 | 1443 | 509 | 1154 | 394 | 866 | 256 | 670 | 200 | 670 | 200 | 670 | 200 |
| -13 | 3300 | 1440 | 2934 | 1281 | 2608 | 1119 | 2205 | 810 | 1786 | 634 | 1488 | 516 | 1190 | 399 | 893 | 259 | 691 | 202 | 691 | 202 | 691 | 202 |
| -12 | 3400 | 1460 | 3006 | 1299 | 2672 | 1134 | 2259 | 821 | 1841 | 643 | 1533 | 524 | 1226 | 405 | 920 | 263 | 712 | 205 | 712 | 205 | 712 | 205 |
| -11 | 3500 | 1480 | 3078 | 1317 | 2736 | 1149 | 2313 | 832 | 1894 | 651 | 1578 | 531 | 1262 | 410 | 947 | 267 | 733 | 208 | 733 | 208 | 733 | 208 |
| -10 | 3600 | 1500 | 3150 | 1335 | 2800 | 1164 | 2367 | 843 | 1948 | 660 | 1623 | 538 | 1299 | 416 | 974 | 270 | 754 | 211 | 754 | 211 | 754 | 211 |
| -9 | 3675 | 1517 | 3207 | 1350 | 2856 | 1179 | 2421 | 853 | 1988 | 667 | 1657 | 544 | 1326 | 420 | 994 | 273 | 769 | 213 | 769 | 213 | 769 | 213 |
| -8 | 3750 | 1533 | 3264 | 1365 | 2912 | 1194 | 2475 | 862 | 2029 | 675 | 1691 | 550 | 1353 | 425 | 1014 | 276 | 785 | 216 | 785 | 216 | 785 | 216 |
| -7 | 3825 | 1550 | 3321 | 1380 | 2968 | 1209 | 2529 | 871 | 2070 | 682 | 1725 | 556 | 1380 | 430 | 1035 | 279 | 801 | 218 | 801 | 218 | 801 | 218 |
| -6 | 3900 | 1567 | 3378 | 1395 | 3024 | 1224 | 2583 | 881 | 2110 | 689 | 1758 | 562 | 1407 | 434 | 1055 | 282 | 816 | 220 | 816 | 220 | 816 | 220 |
| -5 | 3975 | 1583 | 3435 | 1410 | 3080 | 1239 | 2637 | 890 | 2151 | 697 | 1792 | 568 | 1434 | 439 | 1075 | 285 | 832 | 223 | 832 | 223 | 832 | 223 |
| -4 | 4050 | 1600 | 3492 | 1425 | 3136 | 1254 | 2691 | 900 | 2191 | 704 | 1826 | 574 | 1461 | 444 | 1096 | 288 | 848 | 225 | 848 | 225 | 848 | 225 |
| -3 | 4125 | 1617 | 3549 | 1440 | 3192 | 1269 | 2745 | 909 | 2232 | 711 | 1860 | 580 | 1488 | 448 | 1116 | 291 | 864 | 227 | 864 | 227 | 864 | 227 |
| -2 | 4200 | 1633 | 3606 | 1455 | 3248 | 1284 | 2799 | 918 | 2272 | 719 | 1894 | 586 | 1515 | 453 | 1136 | 294 | 879 | 230 | 879 | 230 | 879 | 230 |
| -1 | 4275 | 1650 | 3663 | 1470 | 3304 | 1299 | 2853 | 928 | 2313 | 726 | 1928 | 592 | 1542 | 457 | 1157 | 297 | 895 | 232 | 895 | 232 | 895 | 232 |
| 0 | 4350 | 1667 | 3720 | 1485 | 3360 | 1314 | 2907 | 937 | 2354 | 733 | 1961 | 598 | 1569 | 462 | 1177 | 300 | 911 | 234 | 911 | 234 | 911 | 234 |
| 1 | 4425 | 1683 | 3777 | 1500 | 3416 | 1329 | 2961 | 946 | 2394 | 741 | 1995 | 604 | 1596 | 467 | 1197 | 303 | 926 | 237 | 926 | 237 | 926 | 237 |
| 2 | 4500 | 1700 | 3834 | 1515 | 3472 | 1344 | 3015 | 956 | 2435 | 748 | 2029 | 610 | 1623 | 471 | 1217 | 306 | 942 | 239 | 942 | 239 | 942 | 239 |
| 3 | 4609 | 1702 | 3712 | 1436 | 3300 | 1257 | 3093 | 969 | 2475 | 758 | 2062 | 618 | 1650 | 478 | 1343 | 316 | 1039 | 247 | 1039 | 247 | 1039 | 247 |
| 4 | 4717 | 1703 | 3772 | 1455 | 3353 | 1274 | 3143 | 981 | 2515 | 768 | 2095 | 626 | 1676 | 484 | 1468 | 326 | 1136 | 254 | 1136 | 254 | 1136 | 254 |
| 5 | 4826 | 1705 | 3832 | 1474 | 3406 | 1290 | 3193 | 994 | 2554 | 778 | 2129 | 634 | 1703 | 490 | 1593 | 335 | 1233 | 262 | 1233 | 262 | 1233 | 262 |
| 6 | 5455 | 1772 | 4910 | 1576 | 4364 | 1380 | 4092 | 1063 | 3273 | 832 | 2728 | 678 | 2182 | 524 | 1637 | 341 | 1266 | 266 | 1266 | 266 | 1266 | 266 |
| 7 | 5600 | 1800 | 5040 | 1601 | 4480 | 1401 | 4200 | 1080 | 3360 | 845 | 2800 | 689 | 2240 | 533 | 1680 | 346 | 1300 | 270 | 1300 | 270 | 1300 | 270 |
| 8 | 5745 | 1828 | 5170 | 1626 | 4596 | 1423 | 4308 | 1097 | 3447 | 858 | 2872 | 700 | 2298 | 541 | 1723 | 351 | 1334 | 274 | 1334 | 274 | 1334 | 274 |
| 9 | 5889 | 1856 | 5300 | 1650 | 4711 | 1445 | 4417 | 1113 | 3533 | 872 | 2945 | 710 | 2356 | 549 | 1767 | 357 | 1367 | 278 | 1367 | 278 | 1367 | 278 |
| 10 | 6034 | 1884 | 5430 | 1675 | 4827 | 1467 | 4525 | 1130 | 3620 | 885 | 3017 | 721 | 2413 | 557 | 1810 | 362 | 1401 | 283 | 1401 | 283 | 1401 | 283 |
| 11 | 6178 | 1911 | 5560 | 1700 | 4942 | 1488 | 4634 | 1147 | 3707 | 898 | 3089 | 732 | 2471 | 566 | 1853 | 367 | 1434 | 287 | 1434 | 287 | 1434 | 287 |
| 12 | 6323 | 1939 | 5690 | 1725 | 5058 | 1510 | 4742 | 1164 | 3794 | 911 | 3161 | 742 | 2529 | 574 | 1897 | 373 | 1468 | 291 | 1468 | 291 | 1468 | 291 |
| 13 | 6467 | 1967 | 5820 | 1749 | 5174 | 1532 | 4850 | 1180 | 3880 | 924 | 3234 | 753 | 2587 | 582 | 1940 | 378 | 1501 | 295 | 1501 | 295 | 1501 | 295 |
| 14 | 6612 | 1995 | 5950 | 1774 | 5289 | 1553 | 4959 | 1197 | 3967 | 937 | 3306 | 764 | 2645 | 590 | 1983 | 384 | 1535 | 299 | 1535 | 299 | 1535 | 299 |
| 15 | 6756 | 2023 | 6081 | 1799 | 5405 | 1575 | 5067 | 1214 | 4054 | 950 | 3378 | 774 | 2702 | 599 | 2027 | 389 | 1568 | 303 | 1568 | 303 | 1568 | 303 |
| 16 | 6901 | 2051 | 6211 | 1824 | 5521 | 1597 | 5175 | 1231 | 4140 | 963 | 3450 | 785 | 2760 | 607 | 2070 | 394 | 1602 | 308 | 1602 | 308 | 1602 | 308 |
| 17 | 7045 | 2079 | 6341 | 1849 | 5636 | 1618 | 5284 | 1247 | 4227 | 976 | 3523 | 796 | 2818 | 615 | 2114 | 400 | 1635 | 312 | 1635 | 312 | 1635 | 312 |
| 18 | 7190 | 2107 | 6471 | 1873 | 5752 | 1640 | 5392 | 1264 | 4314 | 989 | 3595 | 806 | 2876 | 623 | 2157 | 405 | 1669 | 316 | 1669 | 316 | 1669 | 316 |
| 19 | 7334 | 2134 | 6601 | 1898 | 5867 | 1662 | 5501 | 1281 | 4401 | 1002 | 3667 | 817 | 2934 | 632 | 2200 | 410 | 1703 | 320 | 1703 | 320 | 1703 | 320 |
| 20 | 7479 | 2162 | 6731 | 1923 | 5983 | 1684 | 5609 | 1297 | 4487 | 1016 | 3739 | 828 | 2991 | 640 | 2244 | 416 | 1736 | 324 | 1736 | 324 | 1736 | 324 |
| 21 | 7623 | 2190 | 6861 | 1948 | 6099 | 1705 | 5717 | 1314 | 4574 | 1029 | 3812 | 838 | 3049 | 648 | 2287 | 421 | 1770 | 329 | 1770 | 329 | 1770 | 329 |
| 22 | 7768 | 2218 | 6991 | 1973 | 6214 | 1727 | 5826 | 1331 | 4661 | 1042 | 3884 | 849 | 3107 | 656 | 2330 | 426 | 1803 | 333 | 1803 | 333 | 1803 | 333 |
| 23 | 7912 | 2246 | 7121 | 1997 | 6330 | 1749 | 5934 | 1348 | 4747 | 1055 | 3956 | 860 | 3165 | 664 | 2374 | 432 | 1837 | 337 | 1837 | 337 | 1837 | 337 |
| 24 | 8049 | 2270 | 7251 | 2022 | 6445 | 1770 | 6043 | 1364 | 4834 | 1068 | 4028 | 870 | 3223 | 673 | 2417 | 437 | 1870 | 341 | 1870 | 341 | 1870 | 341 |

10. Performance Characteristic

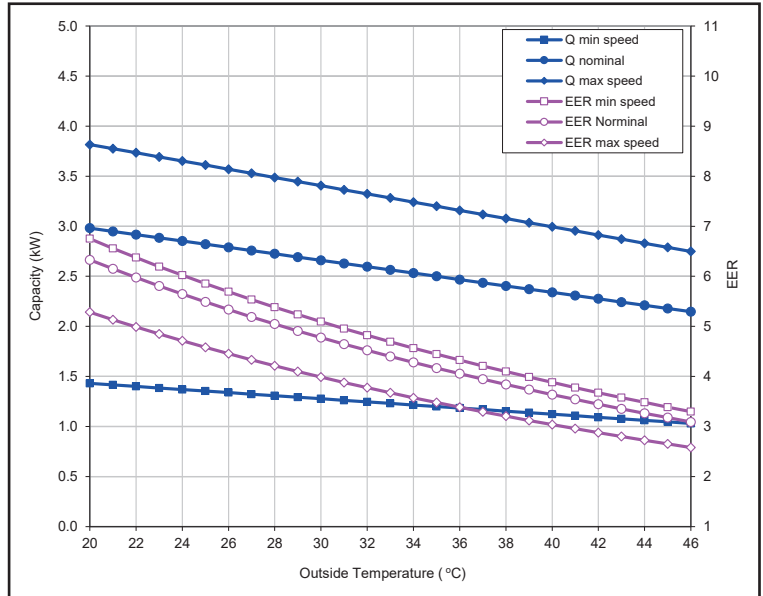
RAS-25E2KVG-ND : RAS-25E2AVG-ND

Product specification :

| Condition | | Capacity (kW) | Power (kW) | EER/COP |
|---|-------|---------------|------------|---------|
| Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB | Min | 1.20 | 0.27 | 4.44 |
| | Rated | 2.50 | 0.60 | 4.17 |
| | Max | 3.20 | 0.92 | 3.48 |
| Heating JIS In: 20 °C DB/15°C WB Out: 7°C DB/6°C WB | Min | 1.10 | 0.21 | 5.24 |
| | Rated | 3.20 | 0.75 | 4.27 |
| | Max | 5.00 | 1.40 | 3.57 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: 2°C DB/1°C WB | Max | 3.70 | 1.40 | 2.64 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -10°C DB | Max | 3.00 | 1.25 | 2.40 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -15°C DB | Max | 2.60 | 1.20 | 2.17 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -20°C DB | Max | 2.10 | 1.100 | 1.91 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -25°C DB | Max | 1.60 | 1.000 | 1.60 |

Cooling performance characteristic :

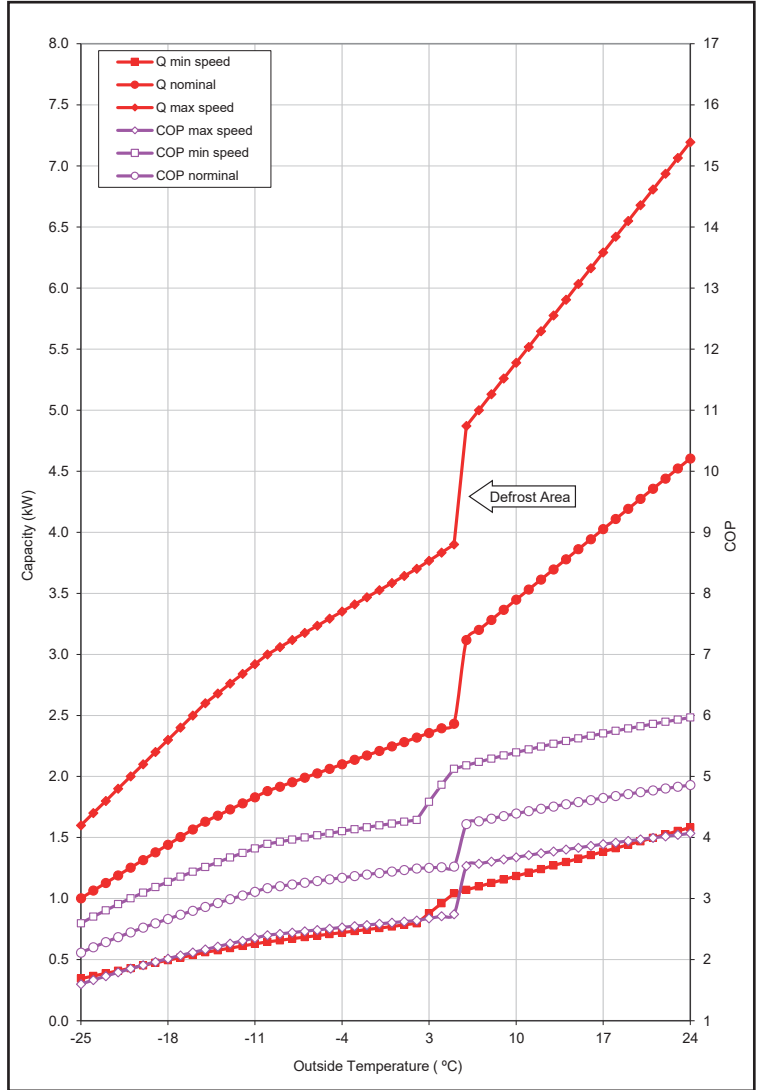
| Outside Temp (°C) | Min capacity | | | Nominal capacity | | | Max capacity | | |
|-------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
| | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20 | 1.43 | 0.21 | 6.75 | 2.98 | 0.47 | 6.33 | 3.82 | 0.72 | 5.28 |
| 21 | 1.42 | 0.22 | 6.56 | 2.95 | 0.48 | 6.15 | 3.77 | 0.74 | 5.13 |
| 22 | 1.40 | 0.22 | 6.37 | 2.92 | 0.49 | 5.98 | 3.73 | 0.75 | 4.99 |
| 23 | 1.38 | 0.22 | 6.19 | 2.89 | 0.50 | 5.81 | 3.69 | 0.76 | 4.85 |
| 24 | 1.37 | 0.23 | 6.02 | 2.85 | 0.51 | 5.64 | 3.65 | 0.77 | 4.71 |
| 25 | 1.35 | 0.23 | 5.85 | 2.82 | 0.51 | 5.49 | 3.61 | 0.79 | 4.58 |
| 26 | 1.34 | 0.24 | 5.69 | 2.79 | 0.52 | 5.34 | 3.57 | 0.80 | 4.45 |
| 27 | 1.32 | 0.24 | 5.54 | 2.76 | 0.53 | 5.19 | 3.53 | 0.81 | 4.33 |
| 28 | 1.31 | 0.24 | 5.38 | 2.72 | 0.54 | 5.05 | 3.49 | 0.83 | 4.21 |
| 29 | 1.29 | 0.25 | 5.24 | 2.69 | 0.55 | 4.91 | 3.45 | 0.84 | 4.10 |
| 30 | 1.28 | 0.25 | 5.09 | 2.66 | 0.56 | 4.78 | 3.41 | 0.85 | 3.99 |
| 31 | 1.26 | 0.25 | 4.96 | 2.63 | 0.57 | 4.65 | 3.36 | 0.87 | 3.88 |
| 32 | 1.25 | 0.26 | 4.82 | 2.60 | 0.57 | 4.52 | 3.32 | 0.88 | 3.77 |
| 33 | 1.23 | 0.26 | 4.69 | 2.56 | 0.58 | 4.40 | 3.28 | 0.89 | 3.67 |
| 34 | 1.22 | 0.27 | 4.57 | 2.53 | 0.59 | 4.28 | 3.24 | 0.91 | 3.57 |
| 35 | 1.20 | 0.27 | 4.44 | 2.50 | 0.60 | 4.17 | 3.20 | 0.92 | 3.48 |
| 36 | 1.18 | 0.27 | 4.33 | 2.47 | 0.61 | 4.06 | 3.16 | 0.93 | 3.39 |
| 37 | 1.17 | 0.28 | 4.21 | 2.44 | 0.62 | 3.95 | 3.12 | 0.95 | 3.29 |
| 38 | 1.15 | 0.28 | 4.10 | 2.40 | 0.63 | 3.84 | 3.08 | 0.96 | 3.21 |
| 39 | 1.14 | 0.29 | 3.99 | 2.37 | 0.63 | 3.74 | 3.04 | 0.97 | 3.12 |
| 40 | 1.12 | 0.29 | 3.88 | 2.34 | 0.64 | 3.64 | 2.99 | 0.99 | 3.04 |
| 41 | 1.11 | 0.29 | 3.78 | 2.31 | 0.65 | 3.54 | 2.95 | 1.00 | 2.96 |
| 42 | 1.09 | 0.30 | 3.68 | 2.28 | 0.66 | 3.45 | 2.91 | 1.01 | 2.88 |
| 43 | 1.08 | 0.30 | 3.58 | 2.24 | 0.67 | 3.35 | 2.87 | 1.03 | 2.80 |
| 44 | 1.06 | 0.30 | 3.48 | 2.21 | 0.68 | 3.26 | 2.83 | 1.04 | 2.72 |
| 45 | 1.05 | 0.31 | 3.39 | 2.18 | 0.69 | 3.18 | 2.79 | 1.05 | 2.65 |
| 46 | 1.03 | 0.31 | 3.30 | 2.15 | 0.69 | 3.09 | 2.75 | 1.07 | 2.58 |



RAS-25E2KVG-ND : RAS-25E2AVG-ND

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 (-) |
| -25 | 0.34 | 0.13 | 2.60 | 1.00 | 0.47 | 2.12 | 1.60 | 1.00 | 1.60 |
| -24 | 0.37 | 0.14 | 2.70 | 1.07 | 0.48 | 2.20 | 1.70 | 1.02 | 1.67 |
| -23 | 0.39 | 0.14 | 2.81 | 1.13 | 0.49 | 2.29 | 1.80 | 1.04 | 1.73 |
| -22 | 0.41 | 0.14 | 2.91 | 1.19 | 0.50 | 2.37 | 1.90 | 1.06 | 1.79 |
| -21 | 0.43 | 0.14 | 3.01 | 1.25 | 0.51 | 2.45 | 2.00 | 1.08 | 1.85 |
| -20 | 0.45 | 0.15 | 3.10 | 1.32 | 0.52 | 2.52 | 2.10 | 1.10 | 1.91 |
| -19 | 0.47 | 0.15 | 3.19 | 1.38 | 0.53 | 2.60 | 2.20 | 1.12 | 1.96 |
| -18 | 0.50 | 0.15 | 3.27 | 1.44 | 0.54 | 2.67 | 2.30 | 1.14 | 2.02 |
| -17 | 0.52 | 0.15 | 3.36 | 1.50 | 0.55 | 2.74 | 2.40 | 1.16 | 2.07 |
| -16 | 0.54 | 0.16 | 3.44 | 1.57 | 0.56 | 2.80 | 2.50 | 1.18 | 2.12 |
| -15 | 0.56 | 0.16 | 3.52 | 1.63 | 0.57 | 2.86 | 2.60 | 1.20 | 2.17 |
| -14 | 0.58 | 0.16 | 3.59 | 1.68 | 0.57 | 2.93 | 2.68 | 1.21 | 2.21 |
| -13 | 0.59 | 0.16 | 3.67 | 1.73 | 0.58 | 2.99 | 2.76 | 1.22 | 2.26 |
| -12 | 0.61 | 0.16 | 3.75 | 1.78 | 0.58 | 3.05 | 2.84 | 1.23 | 2.31 |
| -11 | 0.63 | 0.16 | 3.82 | 1.83 | 0.59 | 3.11 | 2.92 | 1.24 | 2.35 |
| -10 | 0.65 | 0.17 | 3.90 | 1.88 | 0.59 | 3.17 | 3.00 | 1.25 | 2.40 |
| -9 | 0.66 | 0.17 | 3.93 | 1.92 | 0.60 | 3.20 | 3.06 | 1.26 | 2.42 |
| -8 | 0.67 | 0.17 | 3.97 | 1.95 | 0.60 | 3.23 | 3.12 | 1.28 | 2.44 |
| -7 | 0.68 | 0.17 | 4.00 | 1.99 | 0.61 | 3.26 | 3.18 | 1.29 | 2.47 |
| -6 | 0.70 | 0.17 | 4.04 | 2.03 | 0.62 | 3.29 | 3.23 | 1.30 | 2.49 |
| -5 | 0.71 | 0.17 | 4.07 | 2.06 | 0.62 | 3.32 | 3.29 | 1.31 | 2.51 |
| -4 | 0.72 | 0.18 | 4.10 | 2.10 | 0.63 | 3.34 | 3.35 | 1.33 | 2.53 |
| -3 | 0.73 | 0.18 | 4.14 | 2.14 | 0.63 | 3.37 | 3.41 | 1.34 | 2.55 |
| -2 | 0.75 | 0.18 | 4.17 | 2.17 | 0.64 | 3.39 | 3.47 | 1.35 | 2.57 |
| -1 | 0.76 | 0.18 | 4.20 | 2.21 | 0.65 | 3.42 | 3.53 | 1.36 | 2.59 |
| 0 | 0.77 | 0.18 | 4.23 | 2.25 | 0.65 | 3.45 | 3.58 | 1.38 | 2.61 |
| 1 | 0.78 | 0.18 | 4.26 | 2.28 | 0.66 | 3.47 | 3.64 | 1.39 | 2.62 |
| 2 | 0.80 | 0.19 | 4.29 | 2.32 | 0.66 | 3.49 | 3.70 | 1.40 | 2.64 |
| 3 | 0.88 | 0.19 | 4.59 | 2.36 | 0.67 | 3.50 | 3.77 | 1.41 | 2.68 |
| 4 | 0.96 | 0.20 | 4.86 | 2.39 | 0.68 | 3.51 | 3.83 | 1.41 | 2.71 |
| 5 | 1.04 | 0.20 | 5.13 | 2.43 | 0.69 | 3.52 | 3.90 | 1.42 | 2.74 |
| 6 | 1.07 | 0.21 | 5.18 | 3.12 | 0.74 | 4.22 | 4.87 | 1.38 | 3.53 |
| 7 | 1.10 | 0.21 | 5.24 | 3.20 | 0.75 | 4.27 | 5.00 | 1.40 | 3.57 |
| 8 | 1.13 | 0.21 | 5.29 | 3.28 | 0.76 | 4.31 | 5.13 | 1.42 | 3.61 |
| 9 | 1.16 | 0.22 | 5.34 | 3.37 | 0.77 | 4.35 | 5.26 | 1.44 | 3.64 |
| 10 | 1.19 | 0.22 | 5.39 | 3.45 | 0.78 | 4.39 | 5.39 | 1.47 | 3.68 |
| 11 | 1.21 | 0.22 | 5.44 | 3.53 | 0.80 | 4.43 | 5.52 | 1.49 | 3.71 |
| 12 | 1.24 | 0.23 | 5.49 | 3.61 | 0.81 | 4.47 | 5.65 | 1.51 | 3.74 |
| 13 | 1.27 | 0.23 | 5.53 | 3.70 | 0.82 | 4.51 | 5.77 | 1.53 | 3.77 |
| 14 | 1.30 | 0.23 | 5.58 | 3.78 | 0.83 | 4.54 | 5.90 | 1.55 | 3.80 |
| 15 | 1.33 | 0.24 | 5.62 | 3.86 | 0.84 | 4.58 | 6.03 | 1.57 | 3.83 |
| 16 | 1.36 | 0.24 | 5.67 | 3.94 | 0.85 | 4.61 | 6.16 | 1.60 | 3.86 |
| 17 | 1.38 | 0.24 | 5.71 | 4.03 | 0.87 | 4.65 | 6.29 | 1.62 | 3.89 |
| 18 | 1.41 | 0.25 | 5.75 | 4.11 | 0.88 | 4.68 | 6.42 | 1.64 | 3.92 |
| 19 | 1.44 | 0.25 | 5.79 | 4.19 | 0.89 | 4.71 | 6.55 | 1.66 | 3.94 |
| 20 | 1.47 | 0.25 | 5.82 | 4.27 | 0.90 | 4.74 | 6.68 | 1.68 | 3.97 |
| 21 | 1.50 | 0.26 | 5.86 | 4.36 | 0.91 | 4.77 | 6.81 | 1.70 | 4.00 |
| 22 | 1.53 | 0.26 | 5.90 | 4.44 | 0.92 | 4.80 | 6.94 | 1.73 | 4.02 |
| 23 | 1.55 | 0.26 | 5.93 | 4.52 | 0.94 | 4.83 | 7.06 | 1.75 | 4.04 |
| 24 | 1.58 | 0.27 | 5.97 | 4.60 | 0.95 | 4.86 | 7.19 | 1.77 | 4.07 |



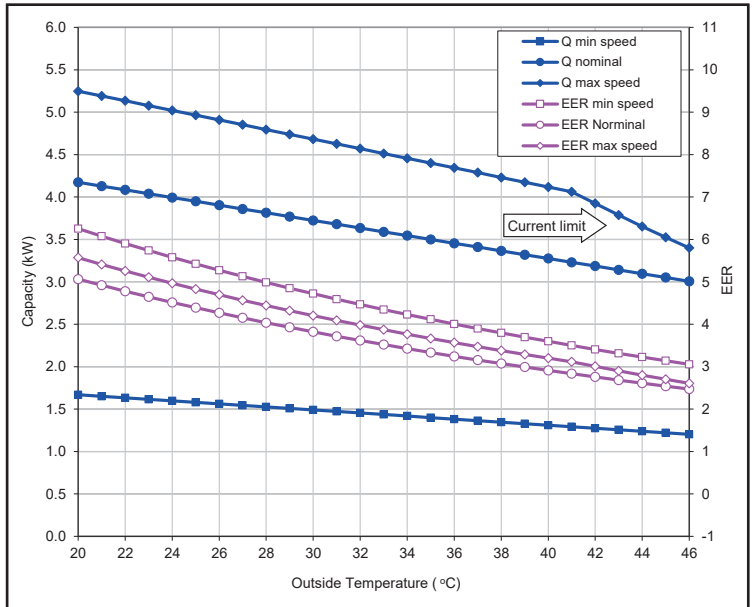
RAS-35E2KVG-ND : RAS-35E2AVG-ND

Product specification :

| Condition | | Capacity (kW) | Power (kW) | EER/COP |
|--|-------|---------------|------------|---------|
| Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB | Min | 1.40 | 0.34 | 4.12 |
| | Rated | 3.50 | 1.05 | 3.33 |
| | Max | 4.40 | 1.20 | 3.67 |
| Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB | Min | 1.30 | 0.27 | 4.81 |
| | Rated | 4.20 | 1.08 | 3.89 |
| | Max | 5.60 | 1.80 | 3.11 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB | Max | 4.50 | 1.70 | 2.65 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB | Max | 3.60 | 1.50 | 2.40 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB | Max | 3.10 | 1.40 | 2.21 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -20 °C DB | Max | 2.70 | 1.300 | 2.08 |
| Heating Low Temp. In: 20 °C DB/15°C WB Out: -25 °C DB | Max | 2.20 | 1.200 | 1.83 |

Cooling performance characteristic :

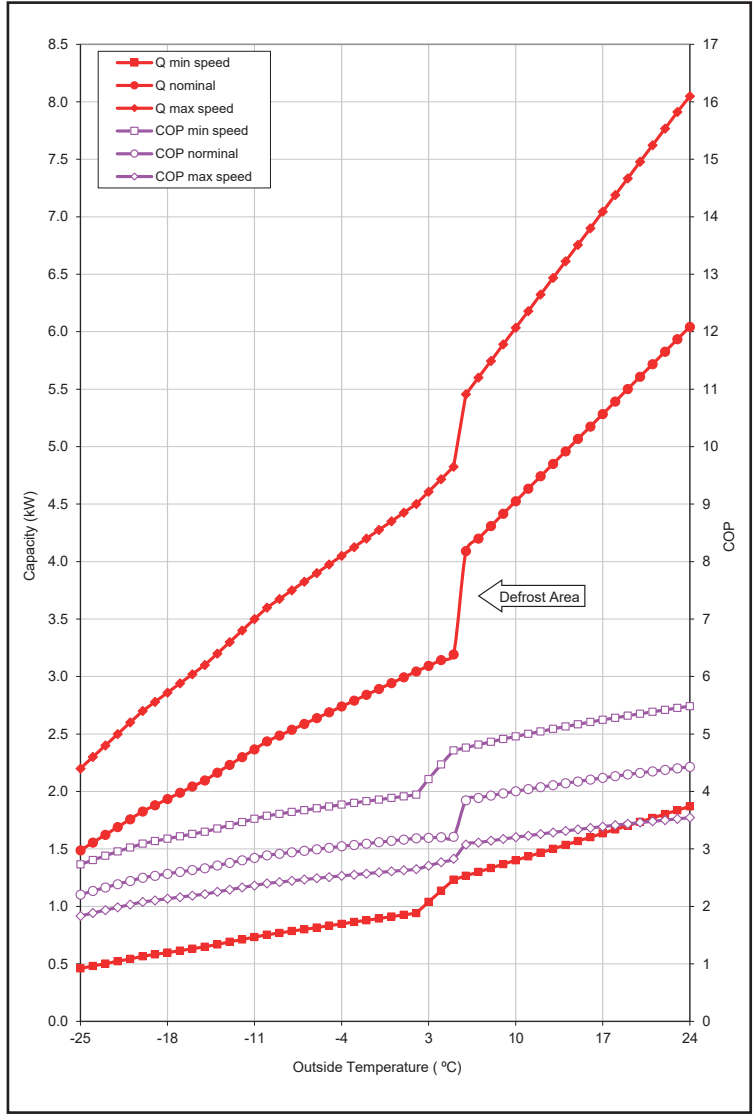
| Outside Temp (°C) | Min capacity | | | Nominal capacity | | | Max capacity | | |
|-------------------|---------------|------------|---------|------------------|------------|---------|---------------|------------|---------|
| | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) | Capacity (kW) | Power (kW) | EER (-) |
| 20 | 1.67 | 0.27 | 6.26 | 4.17 | 0.82 | 5.06 | 5.25 | 0.94 | 5.57 |
| 21 | 1.65 | 0.27 | 6.08 | 4.13 | 0.84 | 4.92 | 5.19 | 0.96 | 5.41 |
| 22 | 1.63 | 0.28 | 5.90 | 4.08 | 0.85 | 4.78 | 5.13 | 0.98 | 5.26 |
| 23 | 1.62 | 0.28 | 5.74 | 4.04 | 0.87 | 4.65 | 5.08 | 0.99 | 5.11 |
| 24 | 1.60 | 0.29 | 5.58 | 3.99 | 0.88 | 4.52 | 5.02 | 1.01 | 4.97 |
| 25 | 1.58 | 0.29 | 5.42 | 3.95 | 0.90 | 4.39 | 4.96 | 1.03 | 4.83 |
| 26 | 1.56 | 0.30 | 5.27 | 3.90 | 0.91 | 4.27 | 4.91 | 1.05 | 4.70 |
| 27 | 1.54 | 0.30 | 5.13 | 3.86 | 0.93 | 4.15 | 4.85 | 1.06 | 4.57 |
| 28 | 1.53 | 0.31 | 4.99 | 3.81 | 0.94 | 4.04 | 4.80 | 1.08 | 4.44 |
| 29 | 1.51 | 0.31 | 4.85 | 3.77 | 0.96 | 3.93 | 4.74 | 1.10 | 4.32 |
| 30 | 1.49 | 0.32 | 4.72 | 3.72 | 0.97 | 3.82 | 4.68 | 1.11 | 4.20 |
| 31 | 1.47 | 0.32 | 4.59 | 3.68 | 0.99 | 3.72 | 4.63 | 1.13 | 4.09 |
| 32 | 1.45 | 0.33 | 4.47 | 3.63 | 1.00 | 3.62 | 4.57 | 1.15 | 3.98 |
| 33 | 1.44 | 0.33 | 4.35 | 3.59 | 1.02 | 3.52 | 4.51 | 1.17 | 3.87 |
| 34 | 1.42 | 0.34 | 4.23 | 3.54 | 1.03 | 3.43 | 4.46 | 1.18 | 3.77 |
| 35 | 1.40 | 0.34 | 4.12 | 3.50 | 1.05 | 3.33 | 4.40 | 1.20 | 3.67 |
| 36 | 1.38 | 0.34 | 4.01 | 3.46 | 1.07 | 3.24 | 4.34 | 1.22 | 3.57 |
| 37 | 1.36 | 0.35 | 3.90 | 3.41 | 1.08 | 3.16 | 4.29 | 1.23 | 3.47 |
| 38 | 1.35 | 0.35 | 3.80 | 3.37 | 1.10 | 3.07 | 4.23 | 1.25 | 3.38 |
| 39 | 1.33 | 0.36 | 3.69 | 3.32 | 1.11 | 2.99 | 4.17 | 1.27 | 3.29 |
| 40 | 1.31 | 0.36 | 3.60 | 3.28 | 1.13 | 2.91 | 4.12 | 1.29 | 3.20 |
| 41 | 1.29 | 0.37 | 3.50 | 3.23 | 1.14 | 2.83 | 4.06 | 1.30 | 3.12 |
| 42 | 1.27 | 0.37 | 3.41 | 3.19 | 1.16 | 2.76 | 3.92 | 1.30 | 3.01 |
| 43 | 1.26 | 0.38 | 3.31 | 3.14 | 1.17 | 2.68 | 3.79 | 1.30 | 2.90 |
| 44 | 1.24 | 0.38 | 3.23 | 3.10 | 1.19 | 2.61 | 3.65 | 1.30 | 2.80 |
| 45 | 1.22 | 0.39 | 3.14 | 3.05 | 1.20 | 2.54 | 3.52 | 1.30 | 2.70 |
| 46 | 1.20 | 0.39 | 3.05 | 3.01 | 1.22 | 2.47 | 3.40 | 1.30 | 2.61 |



RAS-35E2KVG-ND : RAS-35E2AVG-ND

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 (-) |
| -25 | 0.46 | 0.17 | 2.73 | 1.49 | 0.67 | 2.21 | 2.20 | 1.20 | 1.83 |
| -24 | 0.48 | 0.17 | 2.81 | 1.56 | 0.69 | 2.27 | 2.30 | 1.22 | 1.89 |
| -23 | 0.50 | 0.17 | 2.88 | 1.62 | 0.70 | 2.33 | 2.40 | 1.24 | 1.94 |
| -22 | 0.52 | 0.18 | 2.96 | 1.69 | 0.71 | 2.39 | 2.50 | 1.26 | 1.98 |
| -21 | 0.54 | 0.18 | 3.03 | 1.76 | 0.72 | 2.44 | 2.60 | 1.28 | 2.03 |
| -20 | 0.57 | 0.18 | 3.09 | 1.83 | 0.73 | 2.50 | 2.70 | 1.30 | 2.08 |
| -19 | 0.58 | 0.19 | 3.14 | 1.88 | 0.74 | 2.53 | 2.78 | 1.32 | 2.11 |
| -18 | 0.60 | 0.19 | 3.18 | 1.93 | 0.75 | 2.57 | 2.86 | 1.34 | 2.13 |
| -17 | 0.62 | 0.19 | 3.22 | 1.99 | 0.76 | 2.60 | 2.94 | 1.36 | 2.16 |
| -16 | 0.63 | 0.19 | 3.26 | 2.04 | 0.78 | 2.63 | 3.02 | 1.38 | 2.19 |
| -15 | 0.65 | 0.20 | 3.30 | 2.10 | 0.79 | 2.66 | 3.10 | 1.40 | 2.21 |
| -14 | 0.67 | 0.20 | 3.36 | 2.16 | 0.80 | 2.71 | 3.20 | 1.42 | 2.25 |
| -13 | 0.69 | 0.20 | 3.41 | 2.23 | 0.81 | 2.76 | 3.30 | 1.44 | 2.29 |
| -12 | 0.71 | 0.21 | 3.47 | 2.30 | 0.82 | 2.80 | 3.40 | 1.46 | 2.33 |
| -11 | 0.73 | 0.21 | 3.52 | 2.37 | 0.83 | 2.84 | 3.50 | 1.48 | 2.36 |
| -10 | 0.75 | 0.21 | 3.57 | 2.43 | 0.84 | 2.89 | 3.60 | 1.50 | 2.40 |
| -9 | 0.77 | 0.21 | 3.61 | 2.49 | 0.85 | 2.91 | 3.68 | 1.52 | 2.42 |
| -8 | 0.79 | 0.22 | 3.64 | 2.54 | 0.86 | 2.94 | 3.75 | 1.53 | 2.45 |
| -7 | 0.80 | 0.22 | 3.68 | 2.59 | 0.87 | 2.97 | 3.83 | 1.55 | 2.47 |
| -6 | 0.82 | 0.22 | 3.71 | 2.64 | 0.88 | 2.99 | 3.90 | 1.57 | 2.49 |
| -5 | 0.83 | 0.22 | 3.74 | 2.69 | 0.89 | 3.02 | 3.98 | 1.58 | 2.51 |
| -4 | 0.85 | 0.22 | 3.77 | 2.74 | 0.90 | 3.05 | 4.05 | 1.60 | 2.53 |
| -3 | 0.86 | 0.23 | 3.80 | 2.79 | 0.91 | 3.07 | 4.13 | 1.62 | 2.55 |
| -2 | 0.88 | 0.23 | 3.83 | 2.84 | 0.92 | 3.09 | 4.20 | 1.63 | 2.57 |
| -1 | 0.89 | 0.23 | 3.86 | 2.89 | 0.93 | 3.12 | 4.28 | 1.65 | 2.59 |
| 0 | 0.91 | 0.23 | 3.89 | 2.94 | 0.94 | 3.14 | 4.35 | 1.67 | 2.61 |
| 1 | 0.93 | 0.24 | 3.92 | 2.99 | 0.95 | 3.16 | 4.43 | 1.68 | 2.63 |
| 2 | 0.94 | 0.24 | 3.94 | 3.04 | 0.96 | 3.18 | 4.50 | 1.70 | 2.65 |
| 3 | 1.04 | 0.25 | 4.21 | 3.09 | 0.97 | 3.19 | 4.61 | 1.70 | 2.71 |
| 4 | 1.14 | 0.25 | 4.47 | 3.14 | 0.98 | 3.20 | 4.72 | 1.70 | 2.77 |
| 5 | 1.23 | 0.26 | 4.71 | 3.19 | 0.99 | 3.21 | 4.83 | 1.71 | 2.83 |
| 6 | 1.27 | 0.27 | 4.76 | 4.09 | 1.06 | 3.85 | 5.46 | 1.77 | 3.08 |
| 7 | 1.30 | 0.27 | 4.81 | 4.20 | 1.08 | 3.89 | 5.60 | 1.80 | 3.11 |
| 8 | 1.33 | 0.27 | 4.86 | 4.31 | 1.10 | 3.93 | 5.74 | 1.83 | 3.14 |
| 9 | 1.37 | 0.28 | 4.91 | 4.42 | 1.11 | 3.97 | 5.89 | 1.86 | 3.17 |
| 10 | 1.40 | 0.28 | 4.96 | 4.53 | 1.13 | 4.00 | 6.03 | 1.88 | 3.20 |
| 11 | 1.43 | 0.29 | 5.00 | 4.63 | 1.15 | 4.04 | 6.18 | 1.91 | 3.23 |
| 12 | 1.47 | 0.29 | 5.05 | 4.74 | 1.16 | 4.08 | 6.32 | 1.94 | 3.26 |
| 13 | 1.50 | 0.30 | 5.09 | 4.85 | 1.18 | 4.11 | 6.47 | 1.97 | 3.29 |
| 14 | 1.53 | 0.30 | 5.13 | 4.96 | 1.20 | 4.14 | 6.61 | 2.00 | 3.31 |
| 15 | 1.57 | 0.30 | 5.17 | 5.07 | 1.21 | 4.17 | 6.76 | 2.02 | 3.34 |
| 16 | 1.60 | 0.31 | 5.21 | 5.18 | 1.23 | 4.21 | 6.90 | 2.05 | 3.36 |
| 17 | 1.64 | 0.31 | 5.25 | 5.28 | 1.25 | 4.24 | 7.05 | 2.08 | 3.39 |
| 18 | 1.67 | 0.32 | 5.28 | 5.39 | 1.26 | 4.27 | 7.19 | 2.11 | 3.41 |
| 19 | 1.70 | 0.32 | 5.32 | 5.50 | 1.28 | 4.30 | 7.33 | 2.13 | 3.44 |
| 20 | 1.74 | 0.32 | 5.35 | 5.61 | 1.30 | 4.32 | 7.48 | 2.16 | 3.46 |
| 21 | 1.77 | 0.33 | 5.39 | 5.72 | 1.31 | 4.35 | 7.62 | 2.19 | 3.48 |
| 22 | 1.80 | 0.33 | 5.42 | 5.83 | 1.33 | 4.38 | 7.77 | 2.22 | 3.50 |
| 23 | 1.84 | 0.34 | 5.45 | 5.93 | 1.35 | 4.40 | 7.91 | 2.25 | 3.52 |
| 24 | 1.87 | 0.34 | 5.48 | 6.04 | 1.36 | 4.43 | 8.05 | 2.27 | 3.55 |



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