

AIR CONDITIONER

Wall mounted type

DESIGN & TECHNICAL MANUAL

INDOOR



ASHG18KLCA
ASHG24KLCA

OUTDOOR



AOHG18KLTA



AOHG24KLTA

FUJITSU GENERAL LIMITED

Notices:

- Product specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorized dealer.

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Part 1. INDOOR UNIT

WALL MOUNTED TYPE:

ASHG18KLCA

ASHG24KLCA

1. Specifications

| Type | | | | Wall mounted | | | | |
|------------------------------|------------------------|-----------|---|--|---|-----------|-------------------|--|
| | | | | Inverter heat pump | | | | |
| Model name | | | | ASHG18KLCA | ASHG24KLCA | | | |
| Power supply | | | | 230 V ~ 50 Hz | | | | |
| Available voltage range | | | | 198—264 V | | | | |
| Capacity | Cooling | Rated | kW | 5.20 | 7.10 | | | |
| | | | Btu/h | 17,700 | 24,200 | | | |
| | | Min.—Max. | kW | 0.9—5.5 | 0.9—7.7 | | | |
| | | | Btu/h | 3,000—18,700 | 3,000—26,200 | | | |
| | Heating | Rated | kW | 6.30 | 8.00 | | | |
| | | | Btu/h | 21,400 | 27,200 | | | |
| | | Min.—Max. | kW | 0.6—7.6 | 0.9—9.0 | | | |
| | | | Btu/h | 2,000—25,900 | 3,000—30,700 | | | |
| Input power | Cooling | Rated | kW | 1.685 | 2.42 | | | |
| | | | | Min.—Max. | 0.14—2.09 | 0.18—2.74 | | |
| | | Heating | | Rated | 1.800 | 2.225 | | |
| | | | | | Min.—Max. | 0.10—1.93 | 0.15—2.66 | |
| | Fan | HIGH | W | 32 | 57 | | | |
| | | | | MED | 25 | 34 | | |
| | | | | LOW | 16 | 17 | | |
| | | | | QUIET | 10 | 10 | | |
| Current | Cooling | Rated | A | 7.5 | 10.9 | | | |
| | Heating | | | 8.0 | 10.4 | | | |
| EER | Cooling | | kW/kW | 3.09 | 2.93 | | | |
| COP | Heating | | | 3.50 | 3.60 | | | |
| Sensible capacity | Cooling | | kW | 3.93 | 4.92 | | | |
| Power factor | | Cooling | | % | 98.0 | | | |
| | | Heating | | | 98.0 | | | |
| Moisture removal | | | L/h (pints/h) | 1.9 (3.3) | 3.1 (5.5) | | | |
| Maximum operating current *1 | | Cooling | | A | 9.5 | | | |
| | | Heating | | | 13.5 | | | |
| Fan | Airflow rate | Cooling | HIGH | m³/h | 865 | 1,040 | | |
| | | | | | MED | 780 | 880 | |
| | | | | | LOW | 665 | 685 | |
| | | | | | QUIET | 555 | 555 | |
| | | | | | HIGH | 995 | 1,040 | |
| | | Heating | MED | | 810 | | | |
| | | | | | LOW | 700 | 695 | |
| | | | | | QUIET | 590 | 585 | |
| | | | | | Type × Q'ty | | Crossflow fan × 1 | |
| | | | | | Motor output | | W | |
| Sound pressure level *2 | Cooling | HIGH | dB (A) | 47 | 51 | | | |
| | | | | MED | 44 | 45 | | |
| | | | | LOW | 40 | 38 | | |
| | | | | QUIET | 35 | 33 | | |
| | Heating | HIGH | | 50 | 52 | | | |
| | | | | MED | 45 | 45 | | |
| | | | | LOW | 41 | 41 | | |
| | | | | QUIET | 37 | 37 | | |
| Heat exchanger type | Dimensions (H × W × D) | | mm | Main: 384 × 630 × 20.0 Sub: 126 × 630 × 13.30 | Main: 384 × 630 × 20.0 Sub1: 84 × 630 × 13.30 Sub2: 126 × 630 × 13.30 | | | |
| | Fin pitch | | | Man: 1.1, Sub: 1.4 | Man: 1.1, Sub1: 1.4, Sub2: 1.4 | | | |
| | Rows × Stages | | Main: 2 × 24, Sub: 1 × 6 | | Main: 2 × 24, Sub1: 1 × 4, Sub2: 1 × 6 | | | |
| | Pipe type | | Copper tube | | | | | |
| | Fin type | | Aluminum | | | | | |
| Enclosure | Material | | Polystyrene | | | | | |
| | Color | | White Approximate color of Munsell N 9.25/ | | | | | |
| Dimensions (H × W × D) | Net | | mm | 293 × 790 × 249 | | | | |
| | Gross | | | 320 × 840 × 375 | | | | |
| Weight | Net | | kg | 9.5 | 10.0 | | | |
| | Gross | | | 12.0 | 12.5 | | | |
| Connection pipe | Size | Liquid | mm (in) | Ø 6.35 (Ø 1/4) | Ø 6.35 (Ø 1/4) | | | |
| | | Gas | | Ø 9.52 (Ø 3/8) | Ø 12.70 (Ø 1/2) | | | |
| Drain hose | Method | | Flare | | | | | |
| | Material | | PP+HDPE | | | | | |
| Operation range | Tip diameter | | mm | Ø 13.8 (I.D.), Ø 15.8 to Ø 16.7 (O.D.) | | | | |
| | Cooling | | °C | 18 to 32 | | | | |
| | | | %RH | 80 or less | | | | |
| Remote controller type | Heating | | °C | 16 to 30 | | | | |
| | | | | Wireless | | | | |

NOTES:

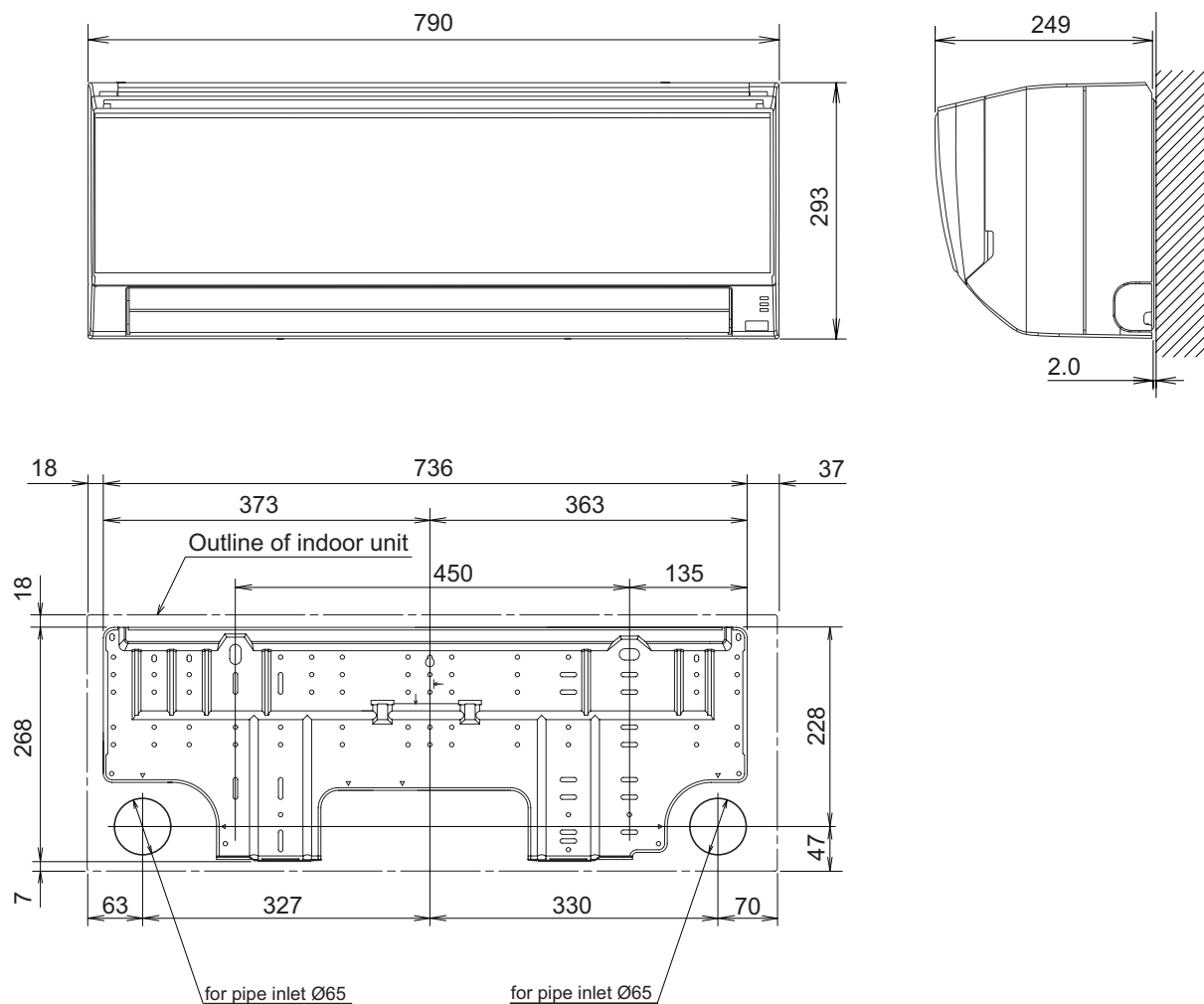
- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB
 - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB
 - Pipe length: 5 m, Height difference: 0 m (Between outdoor unit and indoor unit)
- Protective function might work when using it outside the operation range.
- *1: Maximum current is maximum value when operated within the operation range.
- *2: Sound pressure level:
 - Measured values in manufacturer's anechoic chamber
 - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

| Specifications for ErP Lot10 | | | | | |
|------------------------------|-------------------|---------|-----------------|--------------|------------|
| Model name | | | ASHG18KLCA | | ASHG24KLCA |
| Energy efficiency class | Cooling | | A ⁺⁺ | | |
| | Heating (Average) | | A ⁺ | | |
| Pdesign | Cooling | kW | 5.2 (35 °C) | 7.1 (35 °C) | |
| | Heating (Average) | | 4.8 (-10 °C) | 7.1 (-10 °C) | |
| SEER | Cooling | kWh/kWh | 7.20 | 7.10 | |
| SCOP | Heating (Average) | | 4.30 | 4.00 | |
| Annual energy consumption | QCE | kWh/a | 253 | 350 | |
| | QHE (Average) | | 1,563 | 2,485 | |
| Sound power level | Cooling | HIGH | dB (A) | 60 | 64 |
| | Heating | | | 65 | 65 |

2. Dimensions

2-1. Models: ASHG18KLCA and ASHG24KLCA

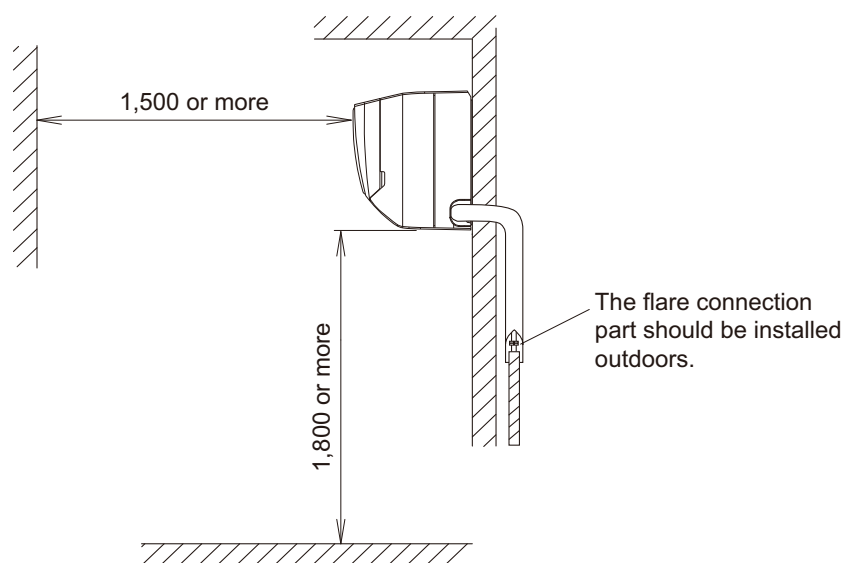
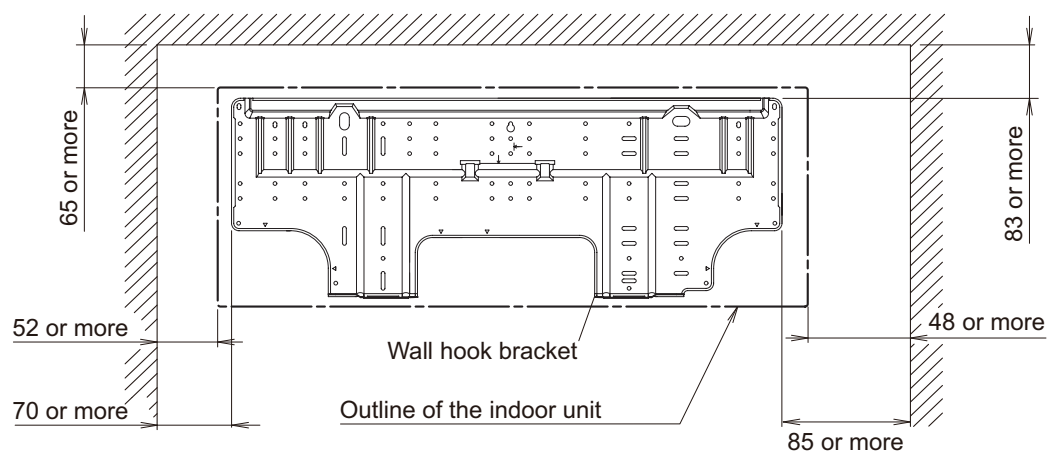
Unit: mm



■ Installation space requirement

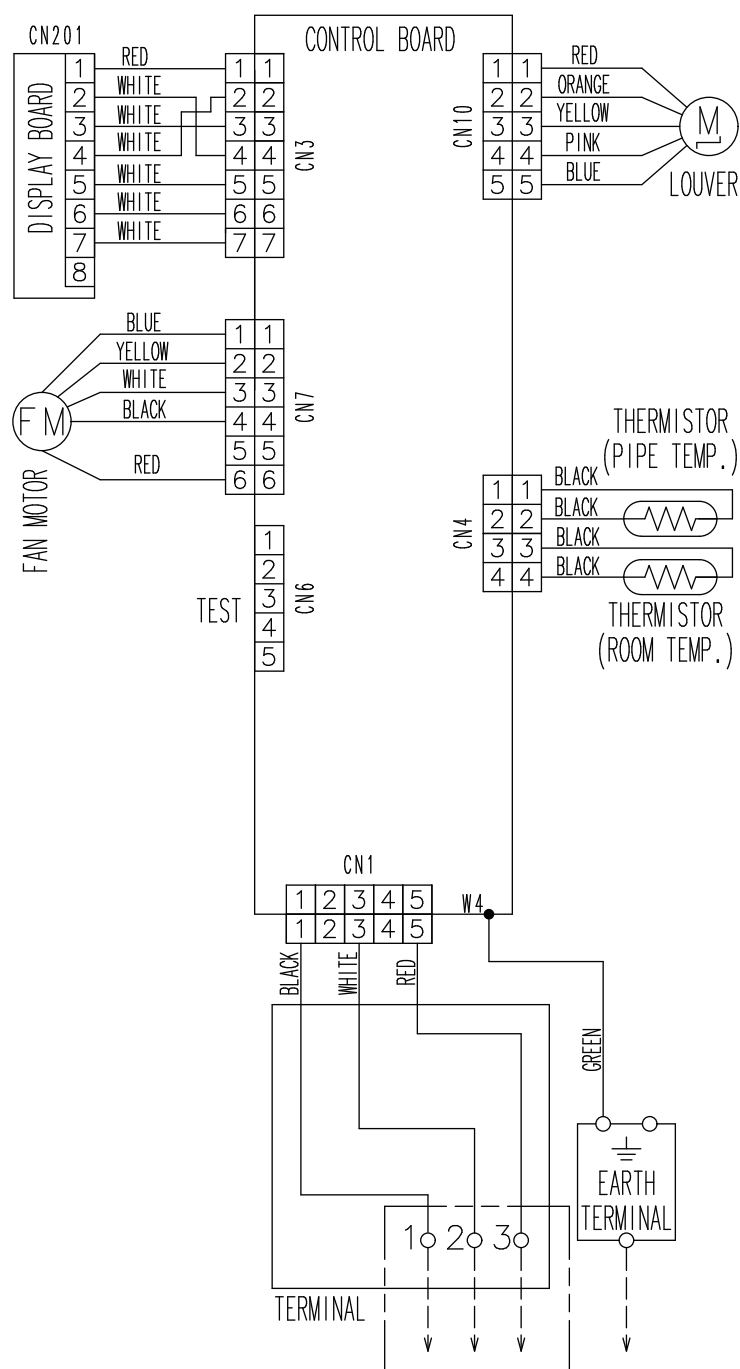
Provide sufficient installation space for product safety.

Unit: mm



3. Wiring diagrams

3-1. Models: ASHG18KLCA and ASHG24KLCA



4. Capacity table

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

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

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

4-1. Cooling capacity

■ Model: ASHG18KLCA

| AFR | | m ³ /h | | | | | | | | | 865 | | | | | | | | | | | |
|---------------------|------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Outdoor temperature | °CDB | 18 | | | 21 | | | 23 | | | 25 | | | 27 | | | 29 | | | 32 | | |
| | °CWB | 12 | | | 15 | | | 16 | | | 18 | | | 19 | | | 21 | | | 23 | | |
| | °CDB | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP |
| | | kW | | | kW | | | kW | | | kW | | | kW | | | kW | | | kW | | |
| | -10 | 3.20 | 2.79 | 1.99 | 3.51 | 3.05 | 2.01 | 3.61 | 3.15 | 2.03 | 3.84 | 3.35 | 2.05 | 3.96 | 3.45 | 2.07 | 4.22 | 3.68 | 2.09 | 4.50 | 3.92 | 2.11 |
| | -5 | 2.94 | 2.69 | 1.99 | 3.22 | 2.94 | 2.01 | 3.31 | 3.03 | 2.03 | 3.52 | 3.22 | 2.05 | 3.63 | 3.32 | 2.07 | 3.87 | 3.54 | 2.09 | 4.13 | 3.77 | 2.11 |
| | 0 | 2.67 | 2.59 | 1.99 | 2.93 | 2.83 | 2.01 | 3.02 | 2.91 | 2.03 | 3.21 | 3.10 | 2.05 | 3.31 | 3.20 | 2.07 | 3.52 | 3.41 | 2.09 | 3.76 | 3.63 | 2.11 |
| | 5 | 3.49 | 2.96 | 1.95 | 3.82 | 3.24 | 1.97 | 3.93 | 3.34 | 1.99 | 4.18 | 3.55 | 2.02 | 4.31 | 3.66 | 2.04 | 4.60 | 3.90 | 2.06 | 4.90 | 4.16 | 2.08 |
| | 10 | 3.24 | 2.85 | 1.98 | 3.54 | 3.11 | 2.00 | 3.65 | 3.21 | 2.02 | 3.88 | 3.41 | 2.04 | 4.00 | 3.52 | 2.06 | 4.26 | 3.75 | 2.08 | 4.55 | 4.00 | 2.10 |
| | 15 | 4.80 | 3.47 | 1.19 | 5.25 | 3.80 | 1.20 | 5.41 | 3.91 | 1.22 | 5.75 | 4.16 | 1.23 | 5.93 | 4.29 | 1.24 | 6.32 | 4.57 | 1.25 | 6.74 | 4.87 | 1.26 |
| | 20 | 4.61 | 3.39 | 1.34 | 5.05 | 3.71 | 1.36 | 5.20 | 3.82 | 1.37 | 5.53 | 4.06 | 1.39 | 5.70 | 4.19 | 1.40 | 6.08 | 4.46 | 1.41 | 6.48 | 4.76 | 1.43 |
| | 25 | 4.58 | 3.36 | 1.33 | 5.01 | 3.68 | 1.35 | 5.16 | 3.79 | 1.36 | 5.49 | 4.03 | 1.37 | 5.66 | 4.16 | 1.39 | 6.03 | 4.43 | 1.40 | 6.43 | 4.72 | 1.41 |
| | 30 | 4.39 | 3.27 | 1.47 | 4.81 | 3.58 | 1.49 | 4.95 | 3.69 | 1.51 | 5.27 | 3.92 | 1.52 | 5.43 | 4.04 | 1.54 | 5.78 | 4.31 | 1.55 | 6.17 | 4.59 | 1.57 |
| | 35 | 4.21 | 3.18 | 1.62 | 4.60 | 3.48 | 1.63 | 4.74 | 3.59 | 1.65 | 5.04 | 3.81 | 1.67 | 5.20 | 3.93 | 1.69 | 5.54 | 4.19 | 1.70 | 5.91 | 4.46 | 1.72 |
| | 40 | 3.55 | 2.98 | 1.34 | 3.88 | 3.26 | 1.35 | 4.00 | 3.36 | 1.37 | 4.25 | 3.57 | 1.38 | 4.39 | 3.68 | 1.39 | 4.67 | 3.92 | 1.41 | 4.98 | 4.18 | 1.42 |
| | 46 | 2.47 | 2.47 | 0.98 | 2.70 | 2.70 | 0.99 | 2.78 | 2.78 | 1.00 | 2.96 | 2.96 | 1.01 | 3.05 | 3.05 | 1.02 | 3.25 | 3.25 | 1.03 | 3.46 | 3.46 | 1.04 |

■ Model: ASHG24KLCA

| AFR | | m ³ /h | | | | | | | | | 1,040 | | | | | | | | | | | |
|---------------------|------|-------------------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Outdoor temperature | °CDB | 18 | | | 21 | | | 23 | | | 25 | | | 27 | | | 29 | | | 32 | | |
| | °CWB | 12 | | | 15 | | | 16 | | | 18 | | | 19 | | | 21 | | | 23 | | |
| | °CDB | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP |
| | | kW | | | kW | | | kW | | | kW | | | kW | | | kW | | | kW | | |
| | -10 | 6.01 | 4.00 | 2.32 | 6.58 | 4.38 | 2.34 | 6.78 | 4.51 | 2.37 | 7.21 | 4.80 | 2.39 | 7.43 | 4.94 | 2.41 | 7.92 | 5.27 | 2.44 | 8.44 | 5.62 | 2.46 |
| | -5 | 5.57 | 3.82 | 2.48 | 6.10 | 4.18 | 2.50 | 6.29 | 4.30 | 2.53 | 6.69 | 4.58 | 2.55 | 6.89 | 4.72 | 2.58 | 7.34 | 5.03 | 2.61 | 7.83 | 5.36 | 2.63 |
| | 0 | 5.14 | 3.64 | 2.64 | 5.62 | 3.98 | 2.66 | 5.79 | 4.10 | 2.69 | 6.16 | 4.36 | 2.72 | 6.35 | 4.49 | 2.75 | 6.77 | 4.79 | 2.77 | 7.21 | 5.11 | 2.80 |
| | 5 | 5.96 | 4.02 | 2.31 | 6.53 | 4.40 | 2.34 | 6.73 | 4.54 | 2.36 | 7.15 | 4.83 | 2.38 | 7.37 | 4.97 | 2.41 | 7.86 | 5.30 | 2.43 | 8.38 | 5.65 | 2.46 |
| | 10 | 5.63 | 3.95 | 2.46 | 6.16 | 4.32 | 2.48 | 6.35 | 4.45 | 2.51 | 6.75 | 4.73 | 2.53 | 6.96 | 4.88 | 2.56 | 7.42 | 5.20 | 2.59 | 7.91 | 5.54 | 2.61 |
| | 15 | 6.65 | 4.40 | 1.61 | 7.27 | 4.81 | 1.62 | 7.50 | 4.96 | 1.64 | 7.97 | 5.27 | 1.66 | 8.22 | 5.43 | 1.67 | 8.76 | 5.79 | 1.69 | 9.33 | 6.17 | 1.71 |
| | 20 | 6.45 | 4.29 | 1.81 | 7.06 | 4.69 | 1.83 | 7.28 | 4.83 | 1.85 | 7.74 | 5.14 | 1.87 | 7.98 | 5.30 | 1.89 | 8.50 | 5.65 | 1.90 | 9.06 | 6.02 | 1.92 |
| | 25 | 6.31 | 4.23 | 1.92 | 6.91 | 4.62 | 1.94 | 7.12 | 4.76 | 1.96 | 7.57 | 5.07 | 1.98 | 7.81 | 5.22 | 2.00 | 8.32 | 5.57 | 2.02 | 8.87 | 5.93 | 2.04 |
| | 30 | 6.03 | 4.10 | 2.12 | 6.60 | 4.49 | 2.14 | 6.80 | 4.63 | 2.17 | 7.23 | 4.92 | 2.19 | 7.45 | 5.07 | 2.21 | 7.94 | 5.40 | 2.23 | 8.47 | 5.76 | 2.25 |
| | 35 | 5.74 | 3.98 | 2.32 | 6.28 | 4.36 | 2.35 | 6.48 | 4.49 | 2.37 | 6.89 | 4.77 | 2.40 | 7.10 | 4.92 | 2.42 | 7.57 | 5.24 | 2.44 | 8.07 | 5.59 | 2.47 |
| | 40 | 5.33 | 3.85 | 2.09 | 5.84 | 4.21 | 2.11 | 6.02 | 4.34 | 2.14 | 6.40 | 4.61 | 2.16 | 6.59 | 4.75 | 2.18 | 7.03 | 5.07 | 2.20 | 7.49 | 5.40 | 2.22 |
| | 46 | 3.98 | 3.31 | 1.59 | 4.35 | 3.62 | 1.61 | 4.49 | 3.73 | 1.63 | 4.77 | 3.97 | 1.64 | 4.92 | 4.09 | 1.66 | 5.24 | 4.36 | 1.68 | 5.59 | 4.65 | 1.69 |

4-2. Heating capacity

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

■ Model: ASHG18KLCA

| | | |
|-----|-------------------|-----|
| AFR | m ³ /h | 995 |
|-----|-------------------|-----|

| | | | Indoor temperature | | | | | | | | | |
|---------------------|------|------|--------------------|------|------|------|------|------|------|------|------|------|
| | | | 16 | | 18 | | 20 | | 22 | | 24 | |
| | | | TC | IP | TC | IP | TC | IP | TC | IP | TC | IP |
| | | | kW | | kW | | kW | | kW | | kW | |
| Outdoor temperature | °CDB | °CWB | 4.29 | 1.49 | 4.18 | 1.52 | 4.07 | 1.55 | 3.96 | 1.58 | 3.85 | 1.61 |
| | -15 | -16 | 4.97 | 1.60 | 4.84 | 1.63 | 4.71 | 1.65 | 4.58 | 1.70 | 4.45 | 1.73 |
| | -10 | -11 | 5.74 | 1.73 | 5.59 | 1.77 | 5.44 | 1.77 | 5.29 | 1.84 | 5.14 | 1.87 |
| | -5 | -7 | 6.67 | 1.88 | 6.49 | 1.92 | 6.32 | 1.93 | 6.14 | 2.00 | 5.97 | 2.04 |
| | 0 | -2 | 7.41 | 2.01 | 7.21 | 2.05 | 7.02 | 2.09 | 6.83 | 2.13 | 6.63 | 2.17 |
| | 5 | 3 | 8.09 | 2.09 | 7.88 | 2.13 | 7.67 | 2.18 | 7.46 | 2.22 | 7.25 | 2.26 |
| | 7 | 6 | 8.47 | 2.17 | 8.25 | 2.21 | 8.03 | 2.24 | 7.81 | 2.31 | 7.59 | 2.35 |
| | 10 | 8 | 8.46 | 2.00 | 8.24 | 2.04 | 8.02 | 2.09 | 7.80 | 2.12 | 7.57 | 2.16 |
| | 15 | 10 | 7.85 | 1.56 | 7.64 | 1.59 | 7.44 | 1.63 | 7.23 | 1.66 | 7.03 | 1.69 |
| | 20 | 15 | 8.24 | 1.55 | 8.03 | 1.59 | 7.81 | 1.62 | 7.59 | 1.65 | 7.38 | 1.68 |
| | 24 | 18 | | | | | | | | | | |

■ Model: ASHG24KLCA

| | | |
|-----|-------------------|-------|
| AFR | m ³ /h | 1,040 |
|-----|-------------------|-------|

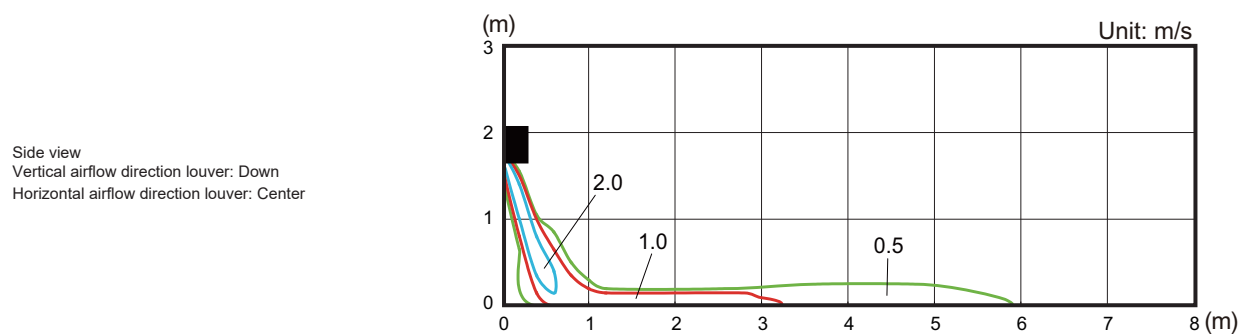
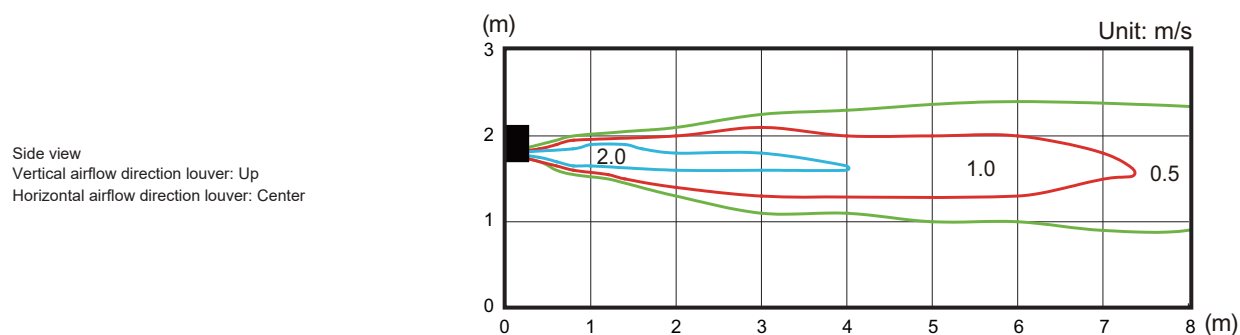
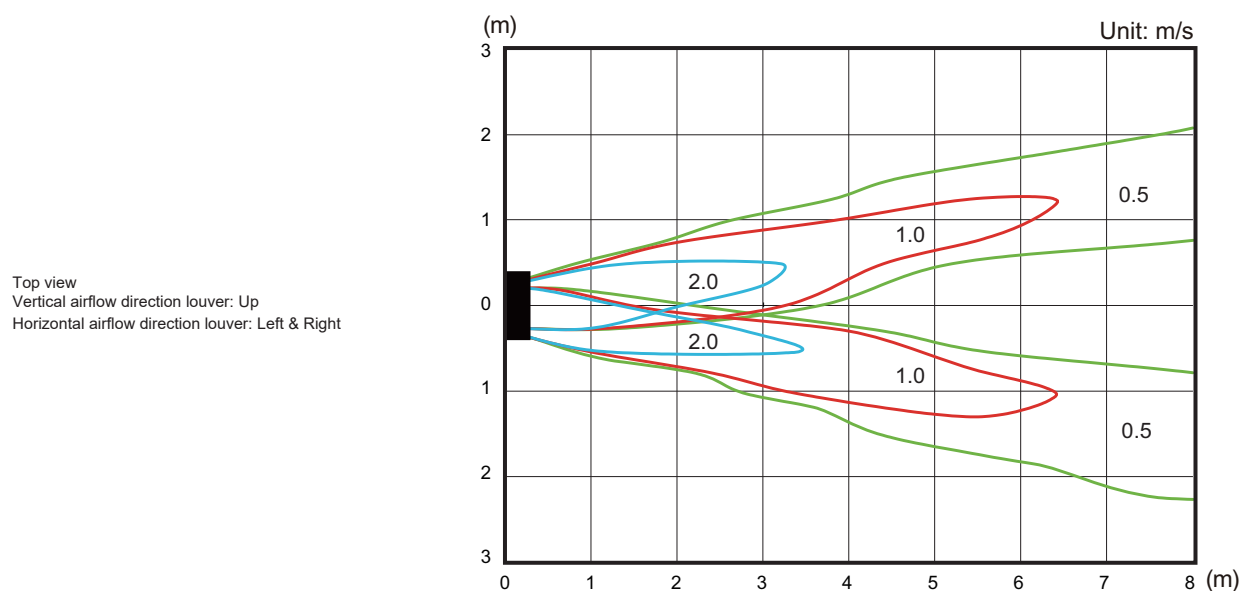
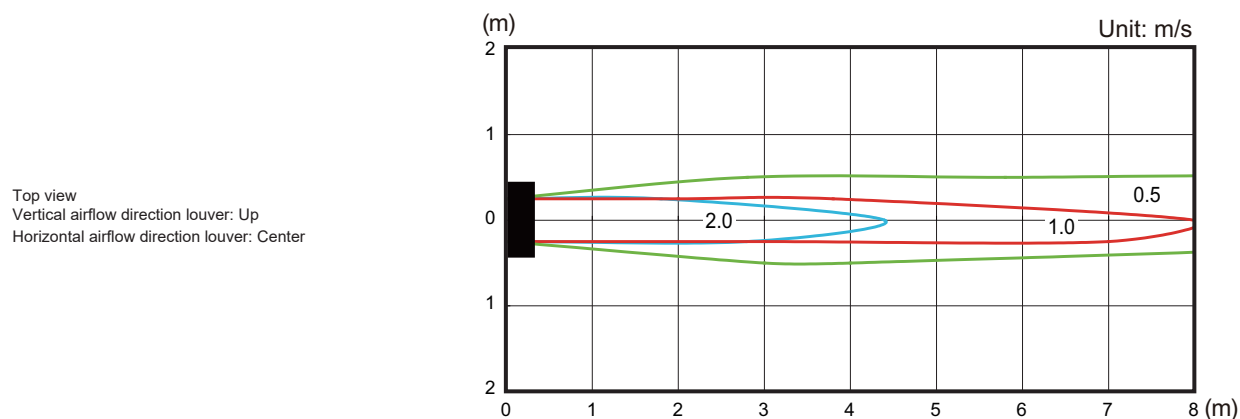
| | | | Indoor temperature | | | | | | | | | |
|---------------------|------|------|--------------------|------|------|------|------|------|------|------|------|------|
| | | | 16 | | 18 | | 20 | | 22 | | 24 | |
| | | | TC | IP | TC | IP | TC | IP | TC | IP | TC | IP |
| | | | kW | | kW | | kW | | kW | | kW | |
| Outdoor temperature | °CDB | °CWB | 6.90 | 2.74 | 6.72 | 2.79 | 6.54 | 2.85 | 6.36 | 2.90 | 6.18 | 2.96 |
| | -15 | -16 | 7.98 | 3.08 | 7.77 | 3.14 | 7.56 | 3.14 | 7.35 | 3.27 | 7.14 | 3.33 |
| | -10 | -11 | 8.79 | 3.25 | 8.56 | 3.31 | 8.33 | 3.40 | 8.10 | 3.45 | 7.87 | 3.51 |
| | -5 | -7 | 9.20 | 3.16 | 8.96 | 3.22 | 8.72 | 3.31 | 8.48 | 3.35 | 8.24 | 3.42 |
| | 0 | -2 | 9.53 | 2.89 | 9.28 | 2.95 | 9.03 | 3.01 | 8.78 | 3.07 | 8.53 | 3.13 |
| | 5 | 3 | 9.50 | 2.55 | 9.25 | 2.60 | 9.00 | 2.66 | 8.75 | 2.71 | 8.50 | 2.76 |
| | 7 | 6 | 9.54 | 2.45 | 9.29 | 2.50 | 9.04 | 2.59 | 8.79 | 2.60 | 8.54 | 2.65 |
| | 10 | 8 | 9.60 | 2.24 | 9.35 | 2.29 | 9.10 | 2.38 | 8.84 | 2.38 | 8.59 | 2.43 |
| | 15 | 10 | 9.66 | 2.04 | 9.41 | 2.08 | 9.16 | 2.17 | 8.90 | 2.16 | 8.65 | 2.20 |
| | 20 | 15 | 9.71 | 1.87 | 9.46 | 1.91 | 9.20 | 1.95 | 8.95 | 1.99 | 8.70 | 2.03 |
| | 24 | 18 | | | | | | | | | | |

5. Fan performance

5-1. Air velocity distributions

■ Model: ASHG18KLCA

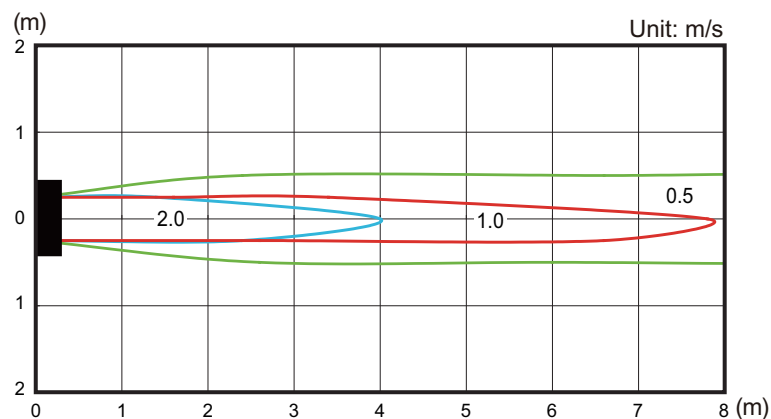
| Measuring conditions | Fan speed | Operation mode |
|----------------------|-----------|----------------|
| | HIGH | FAN |



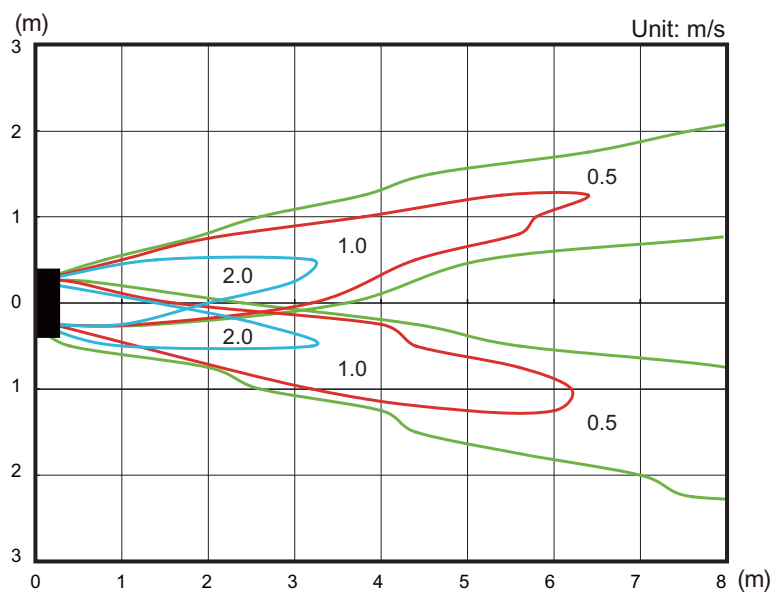
Model: ASHG24KLCA

| | | |
|----------------------|-------------------|-----------------------|
| Measuring conditions | Fan speed HIGH | Operation mode FAN |
|----------------------|-------------------|-----------------------|

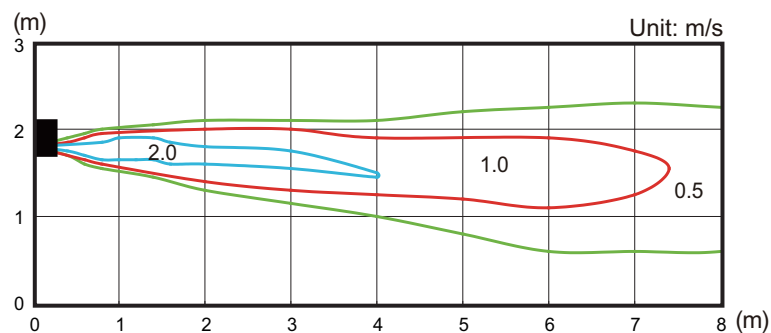
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Center



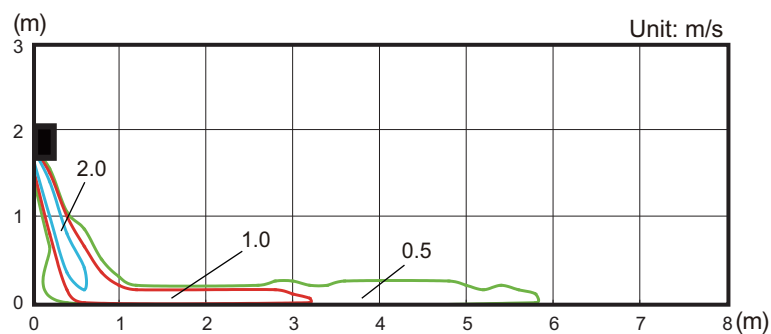
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Left & Right



Side view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Center



Side view
Vertical airflow direction louver: Down
Horizontal airflow direction louver: Center



5-2. Airflow

■ Model: ASHG18KLCA

● Cooling

| Fan speed | Airflow | |
|-----------|-------------------|-----|
| HIGH | m ³ /h | 865 |
| | l/s | 240 |
| | CFM | 509 |
| MED | m ³ /h | 780 |
| | l/s | 217 |
| | CFM | 459 |
| LOW | m ³ /h | 665 |
| | l/s | 185 |
| | CFM | 391 |
| QUIET | m ³ /h | 555 |
| | l/s | 154 |
| | CFM | 327 |

● Heating

| Fan speed | Airflow | |
|-----------|-------------------|-----|
| HIGH | m ³ /h | 995 |
| | l/s | 276 |
| | CFM | 586 |
| MED | m ³ /h | 810 |
| | l/s | 225 |
| | CFM | 477 |
| LOW | m ³ /h | 700 |
| | l/s | 194 |
| | CFM | 412 |
| QUIET | m ³ /h | 590 |
| | l/s | 164 |
| | CFM | 347 |

■ Model: ASHG24KLCA

● Cooling

| Fan speed | Airflow | |
|-----------|-------------------|-------|
| HIGH | m ³ /h | 1,040 |
| | l/s | 288 |
| | CFM | 609 |
| MED | m ³ /h | 880 |
| | l/s | 244 |
| | CFM | 518 |
| LOW | m ³ /h | 685 |
| | l/s | 190 |
| | CFM | 403 |
| QUIET | m ³ /h | 555 |
| | l/s | 154 |
| | CFM | 327 |

● Heating

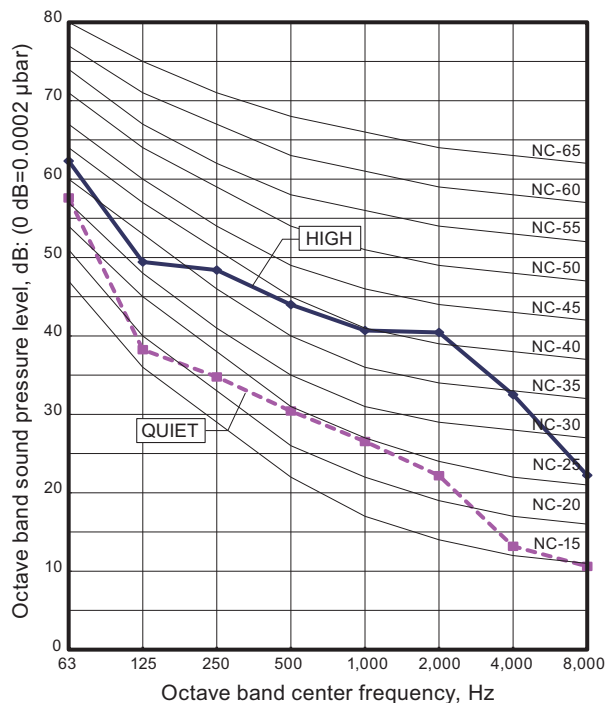
| Fan speed | Airflow | |
|-----------|-------------------|-------|
| HIGH | m ³ /h | 1,040 |
| | l/s | 288 |
| | CFM | 609 |
| MED | m ³ /h | 800 |
| | l/s | 222 |
| | CFM | 471 |
| LOW | m ³ /h | 680 |
| | l/s | 189 |
| | CFM | 400 |
| QUIET | m ³ /h | 580 |
| | l/s | 161 |
| | CFM | 341 |

6. Operation noise (sound pressure)

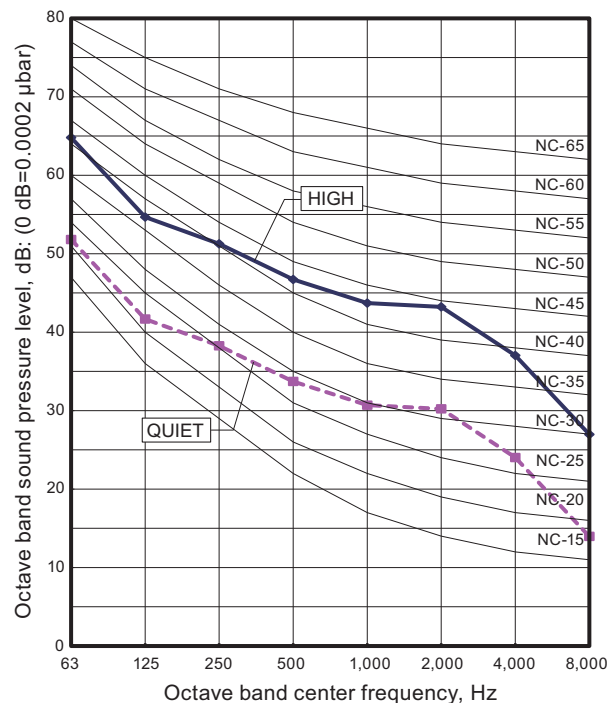
6-1. Noise level curve

■ Model: ASHG18KLCA

● Cooling

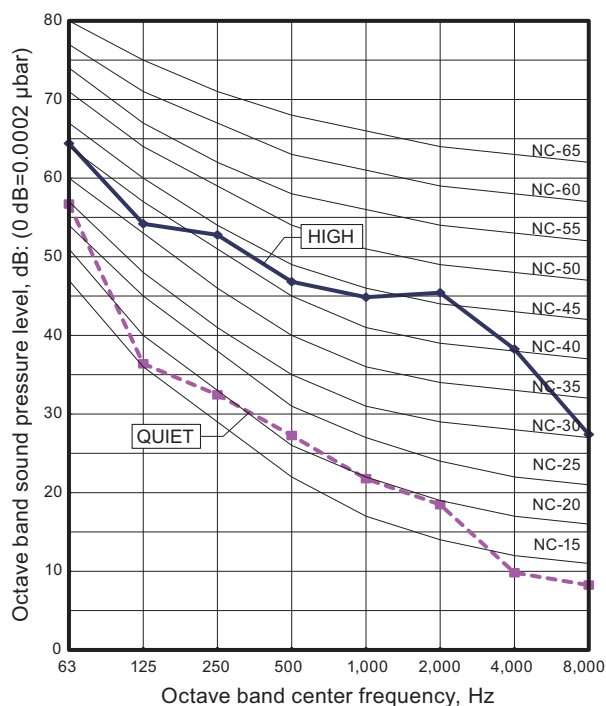


● Heating

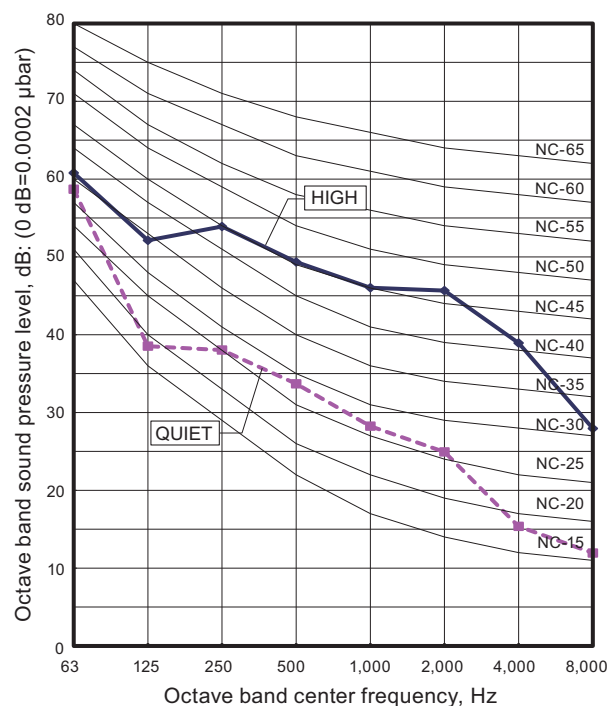


■ Model: ASHG24KLCA

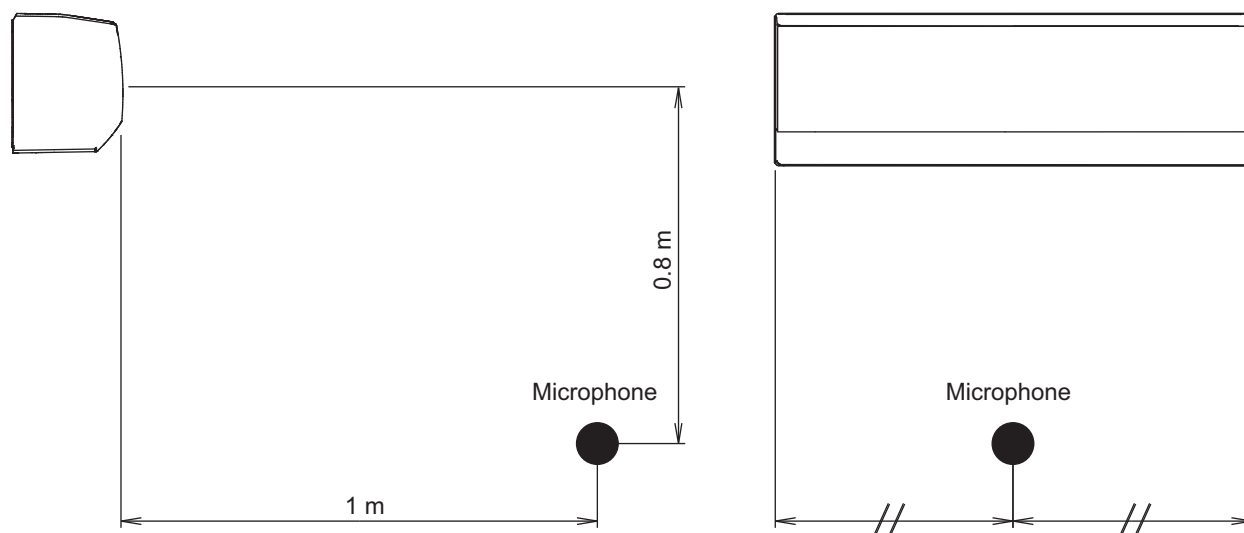
● Cooling



● Heating



6-2. Sound level check point



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

7. Safety devices

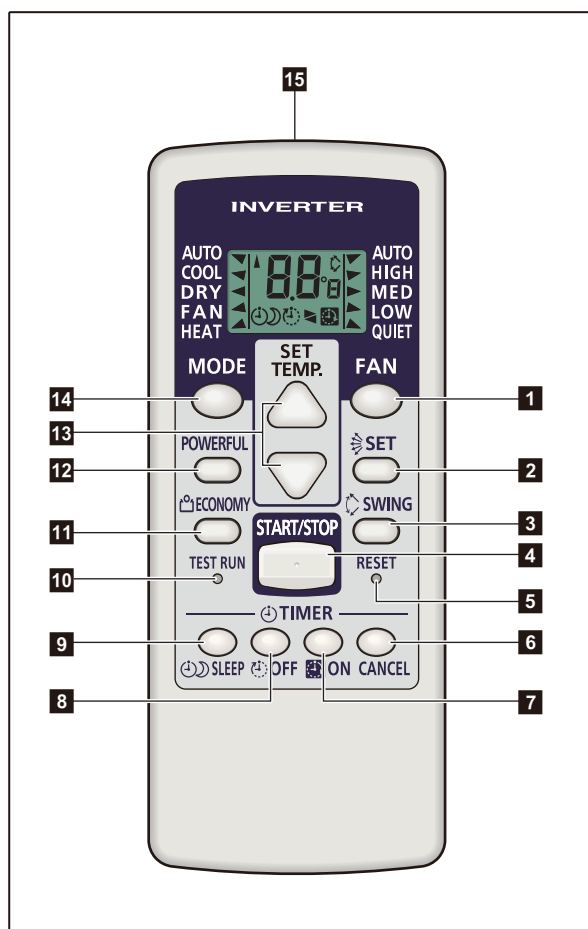
| Type of protection | Protection form | | Model | |
|----------------------|-----------------------|----------|--------------------------------|------------|
| | | | ASHG18KLCA | ASHG24KLCA |
| Circuit protection | Current fuse (PCB*) | | 250 V, 3.15 A | |
| Fan motor protection | Thermistor protection | Activate | 150±15 °C Fan motor stop | |
| | | Reset | 120±15 °C Fan motor restart | |

*PCB: Printed Circuit Board

8. Remote controller

8-1. Wireless remote controller

Overview



- 1 FAN button
- 2 SET button
- 3 SWING button
- 4 START/STOP button
- 5 RESET button
- 6 TIMER CANCEL button
- 7 ON TIMER button
- 8 OFF TIMER button
- 9 SLEEP TIMER button
- 10 TEST RUN button

- Used only when installing the air conditioner, and should not be used under normal conditions, as it will cause the indoor unit's thermostat malfunction.
- If this button is pressed during normal operation, the indoor unit will switch to test operation mode, and the operation indicator lamp and the timer indicator lamp on the indoor unit will begin to flash simultaneously.
- To stop the test operation mode, press the START/STOP button. Then, the air conditioner stops the operation.

- 11 ECONOMY button
- 12 POWERFUL button
- 13 SET TEMP. (temperature) (▲ / ▼) button
- 14 MODE button

- Switches operation mode (AUTO, COOL, DRY, FAN, and HEAT).
- Starts/ends the remote controller custom code (max. 4 types) change.

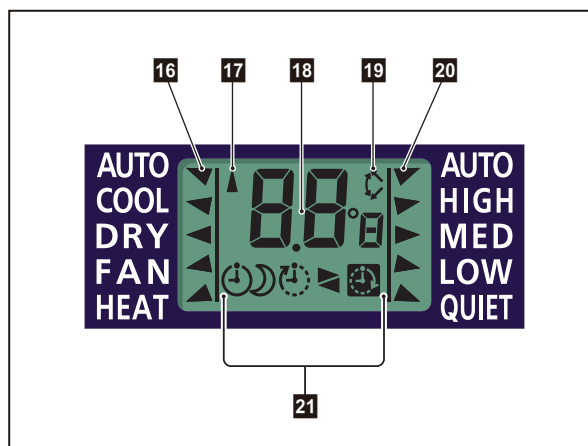
- 15 Signal transmitter
- 16 Operating mode indicator
- 17 Signal transmit indicator
- 18 Temperature and time indicator

- Displays set temperature.
- In timer setting, it displays the timer time. After finishing the timer setting, set temperature will reappear.

- 19 Swing indicator
- 20 Fan speed indicator
- 21 Timer mode indicator

- Sleep timer
- OFF timer
- OFF-ON timer
- ON-OFF timer
- ON timer

Display panel

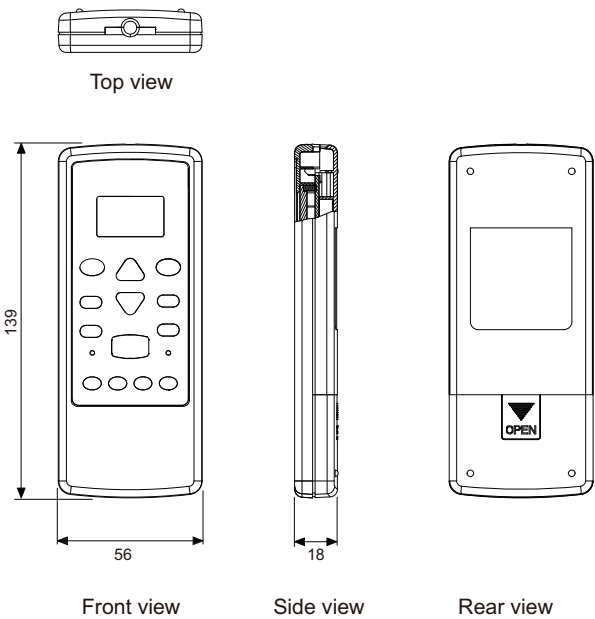


NOTE: Functions may differ by type of the indoor unit. For details, refer to the operation manual.

■ Specifications

● Controller

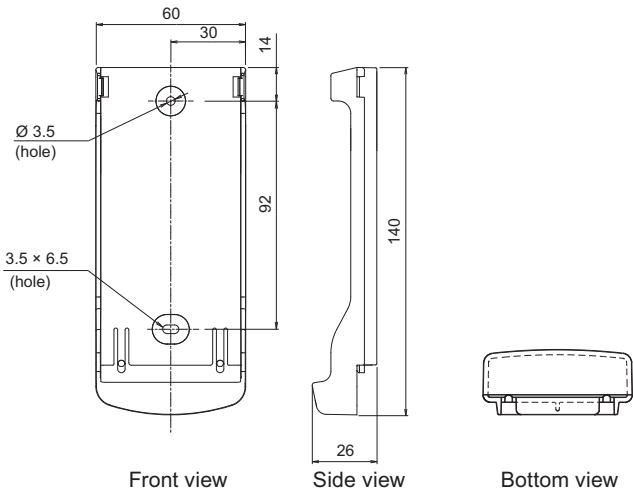
Unit: mm



| | | |
|------------------|----|------------------------|
| Size (H × W × D) | mm | 139 × 56 × 18 |
| Weight | g | 70 (without batteries) |

● Holder

Unit: mm



| | | |
|------------------|----|-------------------|
| Size (H × W × D) | mm | 140 × 60.4 × 26.2 |
| Weight | g | 25 |

9. Function settings

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

NOTE: Incorrect settings can cause a product malfunction.

9-1. Function settings by using remote controller

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

■ Setting procedure by using wireless remote controller

The function number and the associated setting value are displayed on the LCD of the remote controller. Follow the instructions written in the local setup procedure supplied with the remote controller, and select appropriate setting according to the installation environment.

Before connecting the power supply of the indoor unit, reconfirm following items:

- Piping air tight test and vacuuming have been performed firmly.
- There is no wiring mistake.

Then, connect the power supply of indoor unit.

Entering function setting mode:

While pressing the FAN button and SET TEMP. (▲) button simultaneously, press the RESET button to enter the function setting mode.

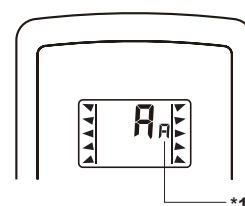
STEP 1: Setting the remote controller custom code

Use the following steps to select the custom code of the remote controller. (Note that the air conditioner cannot receive a custom code if the air conditioner has not been set for the custom code.)

The custom codes that are set through this process are applicable only to the signal in the function setting.

For details on how to set the custom codes through the normal process, refer to ["Custom code setting for wireless remote controller"](#) on page 22.

1. Press the SET TEMP. (▲) (▼) buttons to change the custom code between $\text{A} \rightarrow \text{b} \rightarrow \text{c} \rightarrow \text{d}$. Match the code on the display to the air conditioner custom code. (Initially set to A .) If the custom code does not need to be selected, press the MODE button, and proceed to **STEP 2**.
2. Press the MODE button to accept the custom code, and proceed to **STEP 2**.



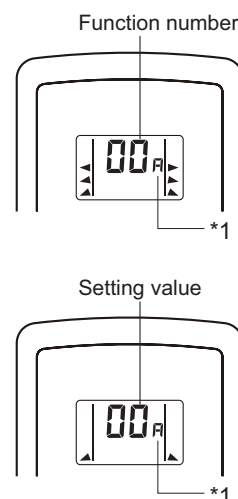
***1:** Small A is displayed on the right of the custom code during the function setting.


NOTES:

- The air conditioner custom code is set to A prior to shipment. To change the custom code, contact your retailer.
- The remote controller resets to custom code A when the batteries on the remote controller are replaced. If you use a custom code other than code A , reset the custom code after replacing the batteries.
- If you do not know the air conditioner custom code setting, try each of the custom codes ($\text{A} \rightarrow \text{b} \rightarrow \text{c} \rightarrow \text{d}$) until you find the code that operates the air conditioner.

STEP 2: Selecting the function number and setting value

1. Press the SET TEMP. (▲) (▼) buttons to select the function number. To switch between the left and right digits, press the MODE button.
2. Press the FAN button to proceed the setting value. To return the function number selection, press the FAN button again.
3. Press the SET TEMP. (▲) (▼) buttons to select the setting value. To switch between the left and right digits, press the MODE button.
4. Press the SLEEP button, then after you hear the beep emitted from the indoor unit, the START/STOP button in the order to confirm the settings.
5. Press the RESET button to cancel the function setting mode.
6. After completing the function setting, be sure to disconnect the power supply and then reconnect it.



***1:** Small  is displayed on the right of the custom code during the function setting.

⚠ CAUTION

After disconnect the power supply, wait 30 seconds or more before reconnecting it. The function setting will not become active unless the power supply is disconnected and then reconnected.

■ Contents of function setting

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

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

● Function setting list

| | Function no. | Functions |
|----|--------------|---|
| 1) | 11 | Filter sign |
| 2) | 30/31 | Room temperature control for indoor unit sensor |
| 3) | 40 | Auto restart |
| 4) | 44 | Remote controller custom code |
| 5) | 49 | Indoor unit fan control for energy saving for cooling |

1) Filter sign

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

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

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|-----------------------------|-----------------|
| 11 | 00 | Standard (400 hours) | |
| | 01 | Long interval (1,000 hours) | |
| | 02 | Short interval (200 hours) | |
| | 03 | No indication | ◆ |

2) Room temperature control for indoor unit sensor

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

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

| Function number | Setting value | Setting description | Factory setting |
|---------------------|---------------------|---------------------|----------------------|
| 30 (For cooling) | 31 (For heating) | 00 | Standard setting |
| | | 01 | No correction 0.0 °C |
| | | 02 | -0.5 °C |
| | | 03 | -1.0 °C |
| | | 04 | -1.5 °C |
| | | 05 | -2.0 °C |
| | | 06 | -2.5 °C |
| | | 07 | -3.0 °C |
| | | 08 | -3.5 °C |
| | | 09 | -4.0 °C |
| | | 10 | +0.5 °C |
| | | 11 | +1.0 °C |
| | | 12 | +1.5 °C |
| | | 13 | +2.0 °C |
| | | 14 | +2.5 °C |
| | | 15 | +3.0 °C |
| | | 16 | +3.5 °C |
| | | 17 | +4.0 °C |

3) Auto restart

Enables or disables automatic restart after a power interruption.

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

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

4) Remote controller custom code

(Only for wireless remote controller)

The indoor unit custom code can be changed. Select the appropriate custom code.

| Function number | Setting value | Setting description | Factory setting |
|-----------------|---------------|---------------------|-----------------|
| 44 | 00 | A | ◆ |
| | 01 | B | |
| | 02 | C | |
| | 03 | D | |

5) Indoor unit fan control for energy saving for cooling

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

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

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

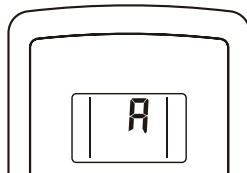
01: When the outdoor unit is stopped, the indoor unit fan operates intermittently at a very low speed.

9-2. Custom code setting for wireless remote controller

To interconnect the air conditioner and the wireless remote controller, assignment of the custom code for the wireless remote controller is required.

NOTE: Air conditioner cannot receive a custom code if the air conditioner has not been set for the custom code.

1. Press the MODE button for at least 5 seconds to display the current custom code. (Initially set to \overline{A} .)




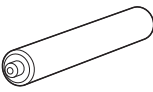
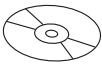


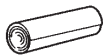
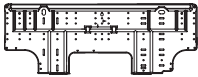
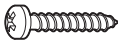
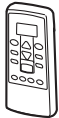

2. Press the SET TEMP. (\blacktriangle or \blacktriangledown) button to change the custom code between $\overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d}$. Match the code on the display to the air conditioner custom code.
3. Press the MODE button again. The custom code will be changed.

NOTES:

- If no button is pressed within 30 seconds after the custom code is displayed, the system returns to the original clock indicator. In this case, start again from step 1.
- The air conditioner custom code is set to \overline{A} prior to shipment. To change the custom code, contact your retailer.
- The remote controller resets to custom code \overline{A} when the batteries in the remote controller are replaced. If you use a custom code other than code \overline{A} , reset the appropriate custom code after replacing the batteries. If you do not know the assigned code for the air conditioner, try each of the custom code ($\overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d}$) until you find the code which operates the air conditioner.

10. Accessories

10-1. Models: ASHG18KLCA and ASHG24KLCA

| Part name | Exterior | Q'ty | Part name | Exterior | Q'ty |
|---------------------------|---|------|--------------------------|---|------|
| Operating manual |  | 1 | Battery |  | 2 |
| Operating manual (CD-ROM) |  | 1 | Remote controller holder |  | 1 |
| Installation manual |  | 1 | Cloth tape |  | 1 |
| Wall hook bracket |  | 1 | Tapping screw (large) |  | 5 |
| Remote controller |  | 1 | Tapping screw (small) |  | 2 |

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOHG18KLTA

AOHG24KLTA

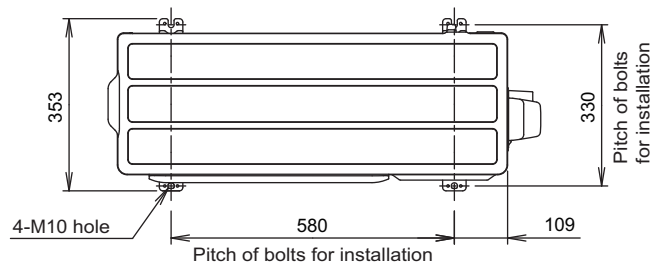
1. Specifications

| Type | | | | Inverter heat pump | | |
|---|------------------------|---------------------------------|-------------------|--|--|--|
| Model name | | | | AOHG18KLTA | AOHG24KLTA | |
| Power supply | | | | 230 V ~ 50 Hz | | |
| Available voltage range | | | | 198—264 V | | |
| Starting current | | | A | 8.0 | 10.9 | |
| Fan | Airflow rate | Cooling | m³/h | 1,830 | 2,885 | |
| | | Heating | | 2,265 | 3,030 | |
| | Type × Q'ty | | Propeller fan × 1 | | | |
| | Motor output | | W | 23 | 49 | |
| Sound pressure level *1 | | Cooling | dB (A) | 50 | 55 | |
| | | Heating | | 56 | 57 | |
| Sound power level | | Cooling | dB (A) | 61 | 65 | |
| | | Heating | | 66 | 67 | |
| Heat exchanger type | | Dimensions (H × W × D) | mm | Main1: 504 × 881 × 18.19 Main2: 504 × 851 × 18.19 | Main1: 588 × 881 × 18.19 Main2: 588 × 851 × 18.19 | |
| | | Fin pitch | | 1.3 | | |
| | | Rows × Stages | | Main1: 1 × 24 Main2: 1 × 24 | Main1: 1 × 28 Main2: 1 × 28 | |
| | | Pipe type | | Copper | | |
| | | Fin type | Type (Material) | Aluminum | | |
| | | | Surface treatment | PC fin | | |
| Compressor | Type × Q'ty | Twin rotary × 1 | | | | |
| | Motor output | | W | 900 | 1,060 | |
| Refrigerant | | Type (Global warming potential) | | R32 (675) | | |
| | | Charge | g | 850 | 1,100 | |
| Refrigerant oil | | Type | | FW68S | RmM68AF | |
| | | Amount | cm³ | 350 | 400 | |
| Enclosure | | Material | | Steel sheet | | |
| | | Color | | Beige Approximate color of Munsell 10YR 7.5/1.0 | | |
| Dimensions (H × W × D) | Net | | mm | 542 × 799 × 290 | 632 × 799 × 290 | |
| | Gross | | | 602 × 940 × 375 | 692 × 940 × 375 | |
| Weight | Net | | kg | 33 | 38 | |
| | Gross | | | 36 | 42 | |
| Connection pipe | Size | Liquid | mm (in) | Ø 6.35 (Ø 1/4) | | |
| | | Gas | | Ø 9.52 (Ø 3/8) Ø 12.70 (Ø 1/2) | | |
| | Method | | Flare | | | |
| | Pre-charge length | | m | 15 | | |
| | Max. length | | | 25 | 30 | |
| | Max. height difference | | | 20 | 25 | |
| Operation range | | Cooling | °C | -10 to 46 | | |
| | | Heating | | -15 to 24 | | |
| Drain pipe | | Material | | PP+HDPE | | |
| | | Size | | Ø 13.0 (I. D.), Ø 16.0 to Ø 16.8 (O. D.) | | |
| NOTES: | | | | | | |
| • Specifications are based on the following conditions: | | | | | | |
| – Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB | | | | | | |
| – Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB | | | | | | |
| – Pipe length: 5 m, Height difference: 0 m (Between outdoor unit and indoor unit) | | | | | | |
| • Protective function might work when using it outside the operation range. | | | | | | |
| • *1: Sound pressure level | | | | | | |
| – Measured values in manufacturer's anechoic chamber | | | | | | |
| – Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here. | | | | | | |

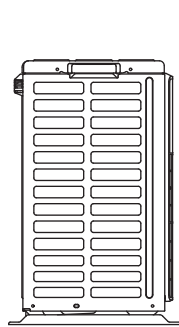
2. Dimensions

2-1. Model: AOHG18KLTA

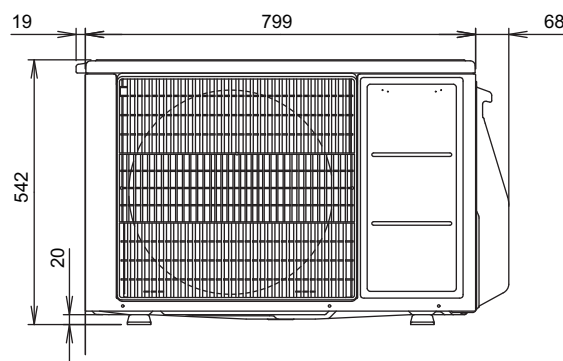
Unit: mm



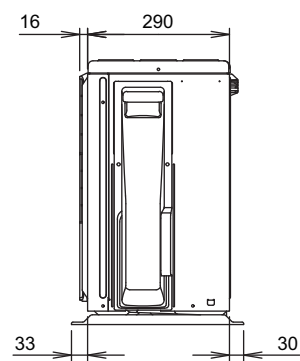
Top view



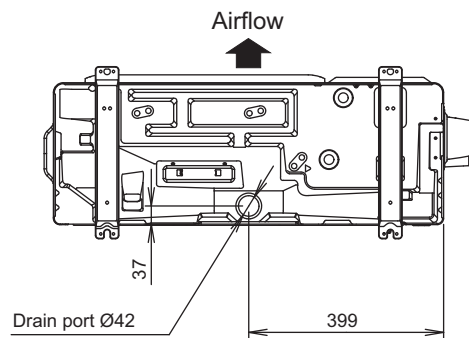
Side view



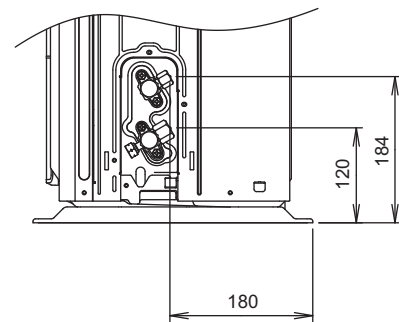
Front view



Side view



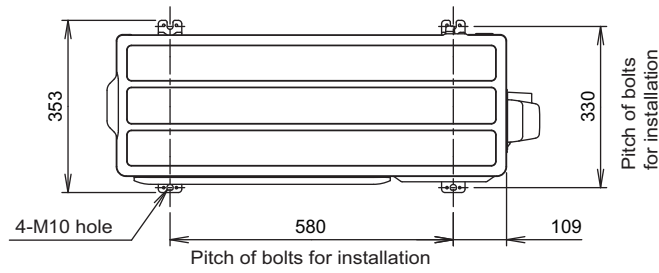
Bottom view



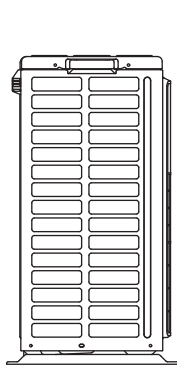
Side view (Valve part)

2-2. Model: AOHG24KLTA

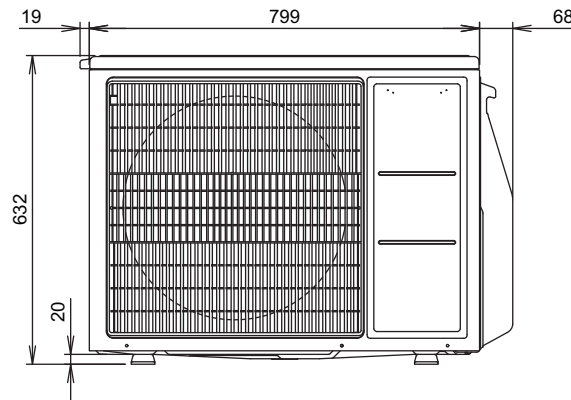
Unit: mm



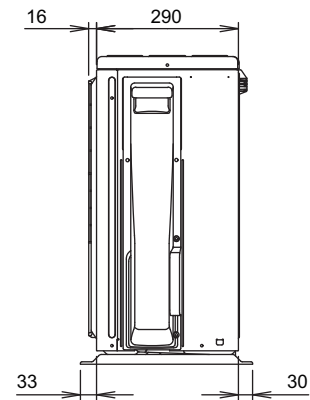
Top view



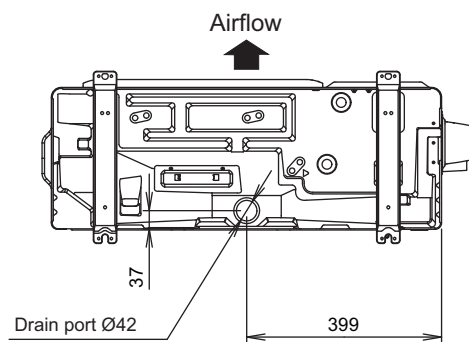
Side view



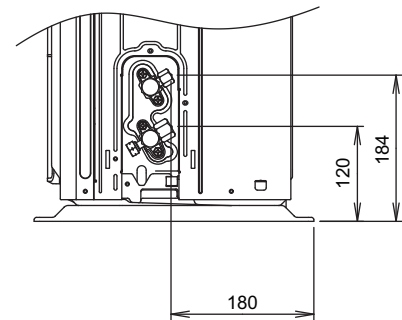
Front view



Side view



Bottom view



Side view (Valve part)

3. Installation space

3-1. Models: AOHG18KLTA and AOHG24KLTA

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

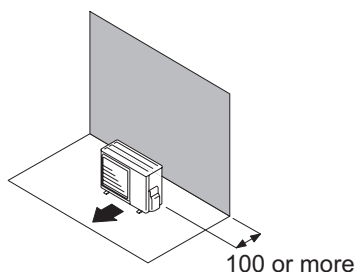
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

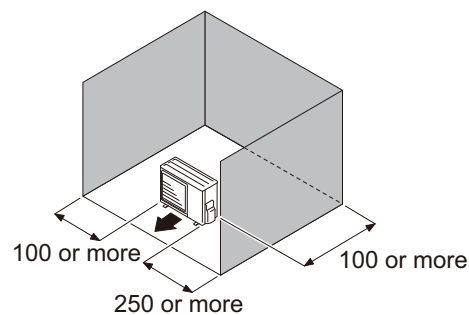
- When the upper space is open:

Unit: mm

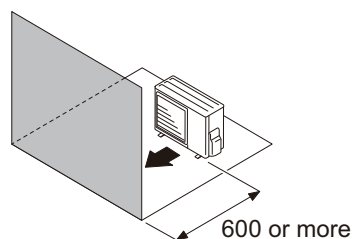
Obstacles at rear only



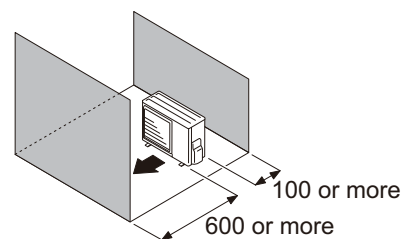
Obstacles at rear and sides



Obstacles at front



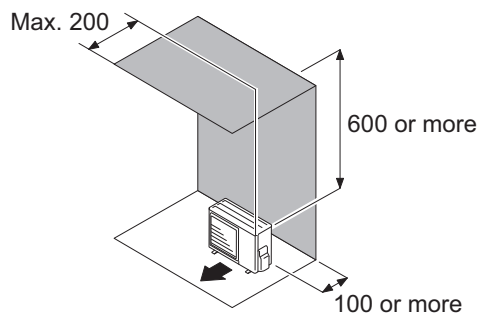
Obstacles at front and rear



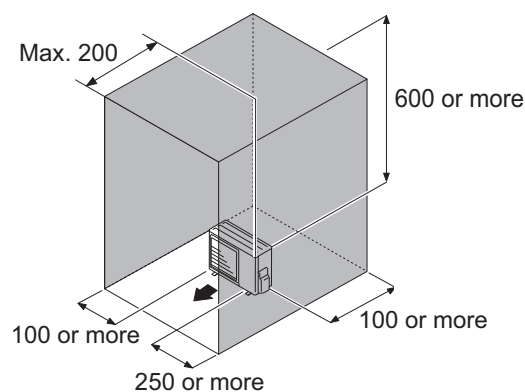
- When an obstruction in the upper space:

Unit: mm

Obstacles at rear and above



Obstacles at rear, sides, and above



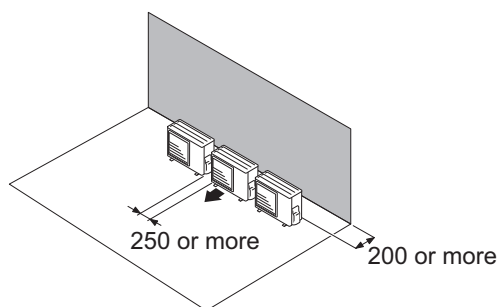
● Multiple outdoor unit installation

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

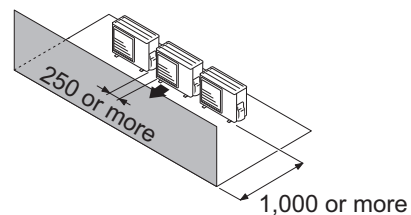
- **When the upper space is open:**

Unit: mm

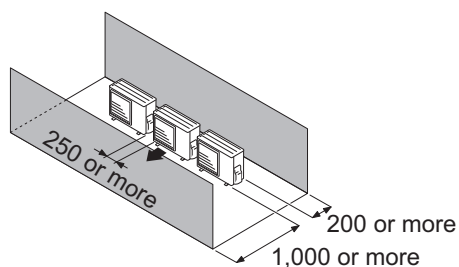
Obstacles at rear only



Obstacles at front only



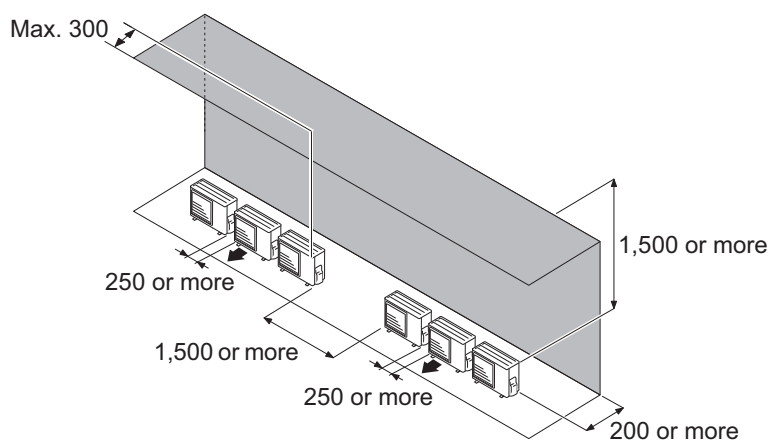
Obstacles at front and rear



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

Unit: mm

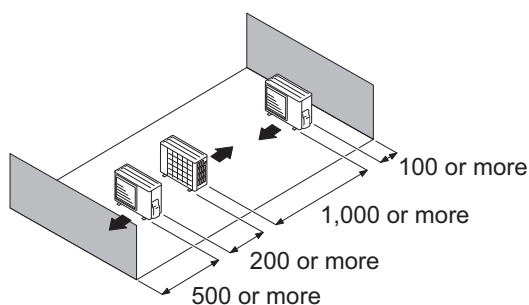
Obstacles at rear and above.



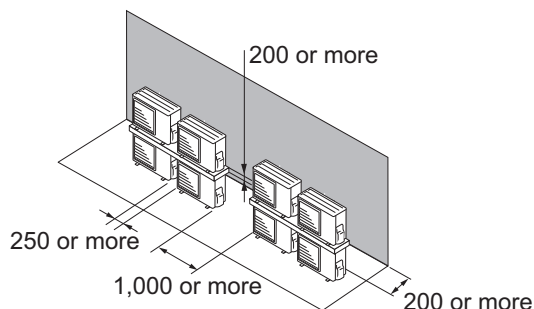
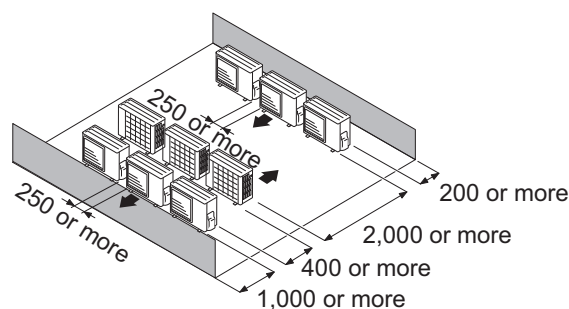
● Outdoor units installation in multi-row

Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement

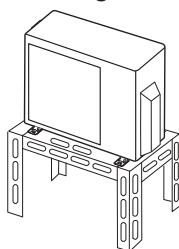


NOTES:

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

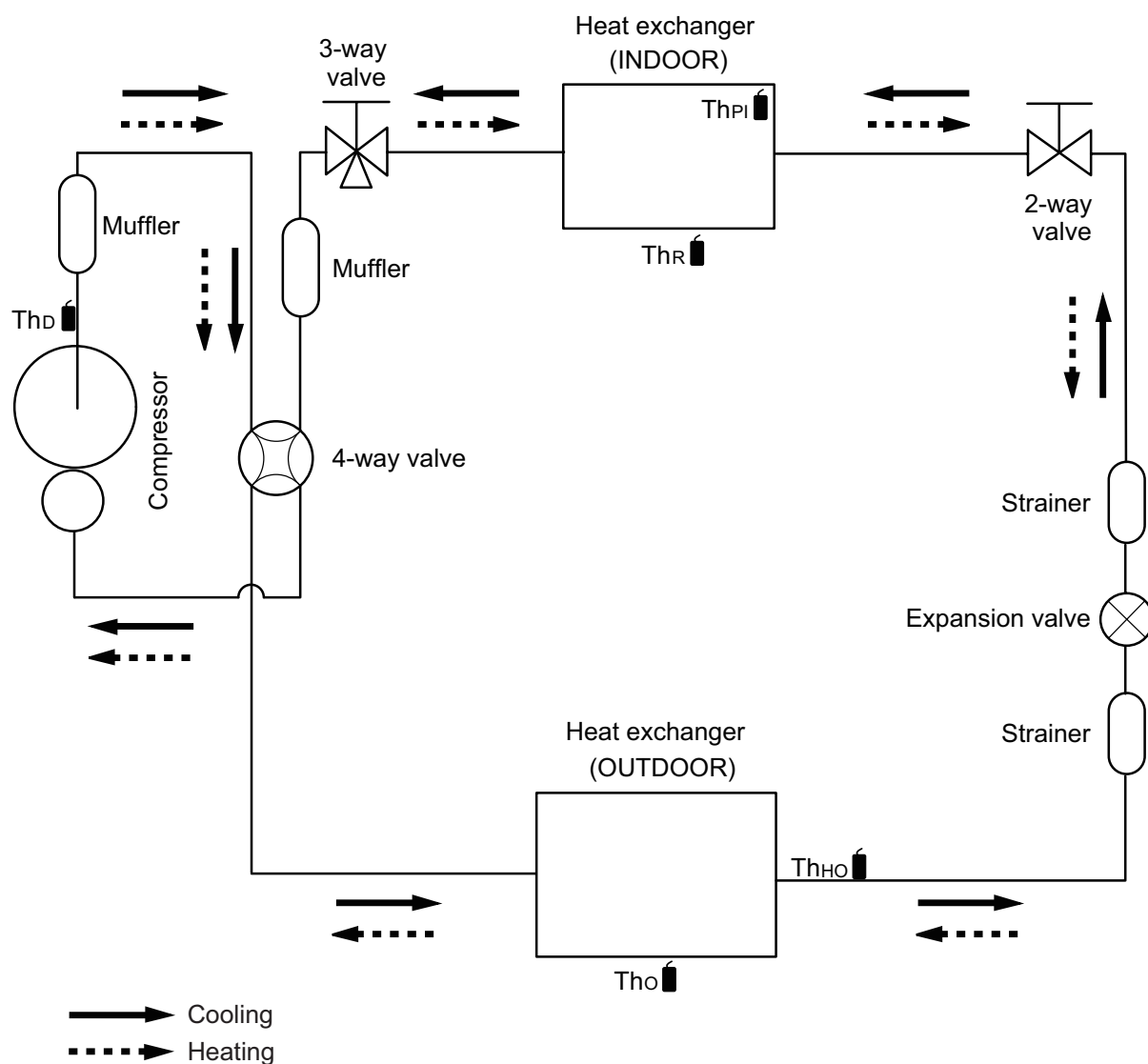
⚠ CAUTION

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



4. Refrigerant circuit

4-1. Model: AOHG18KLTA



Th_D : Thermistor (Discharge temperature)

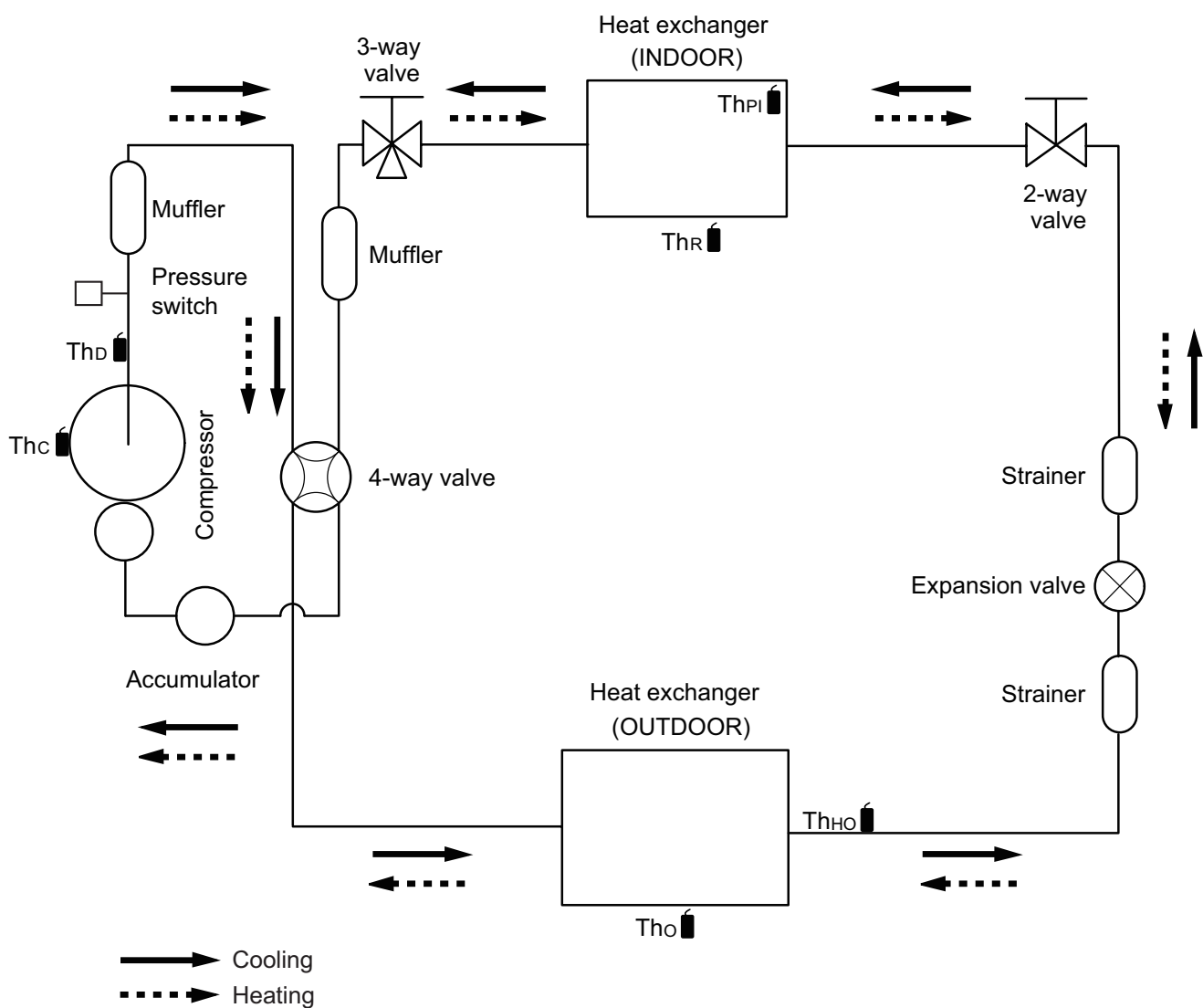
Th_O : Thermistor (Outdoor temperature)

Th_{HO} : Thermistor (Heat exchanger out temperature)

Th_R : Thermistor (Room temperature)

Th_{PI} : Thermistor (Pipe temperature)

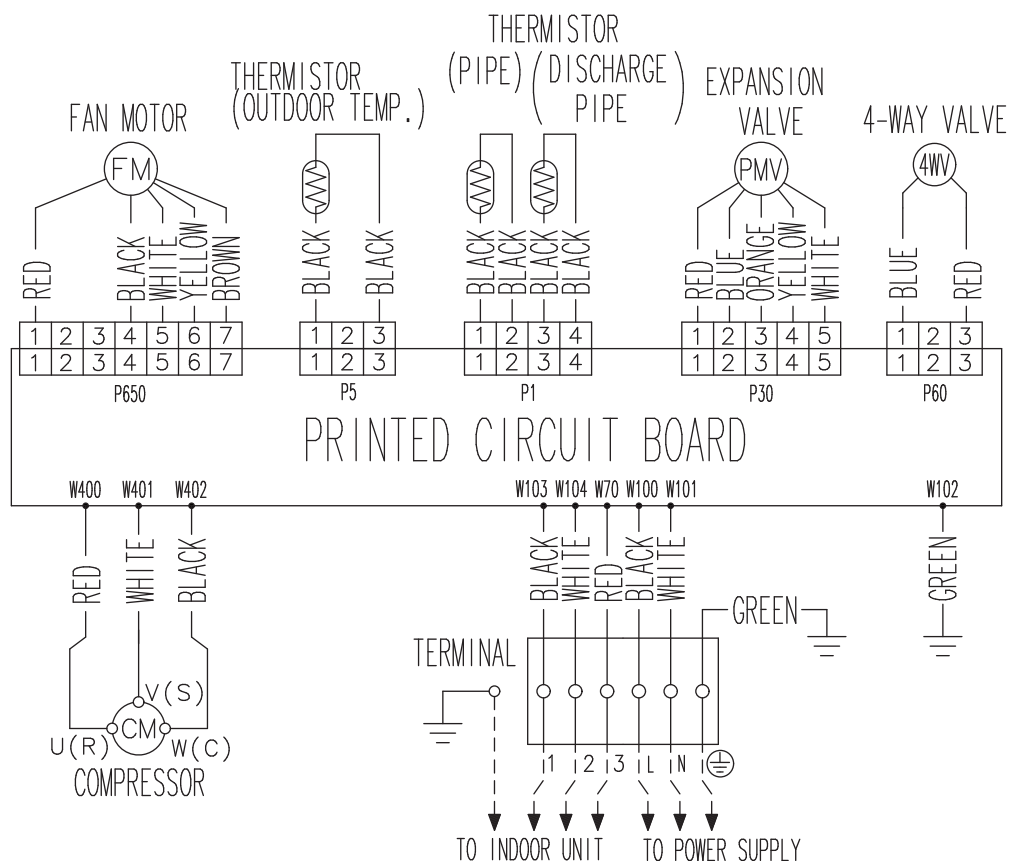
4-2. Model: AOHG24KLTA



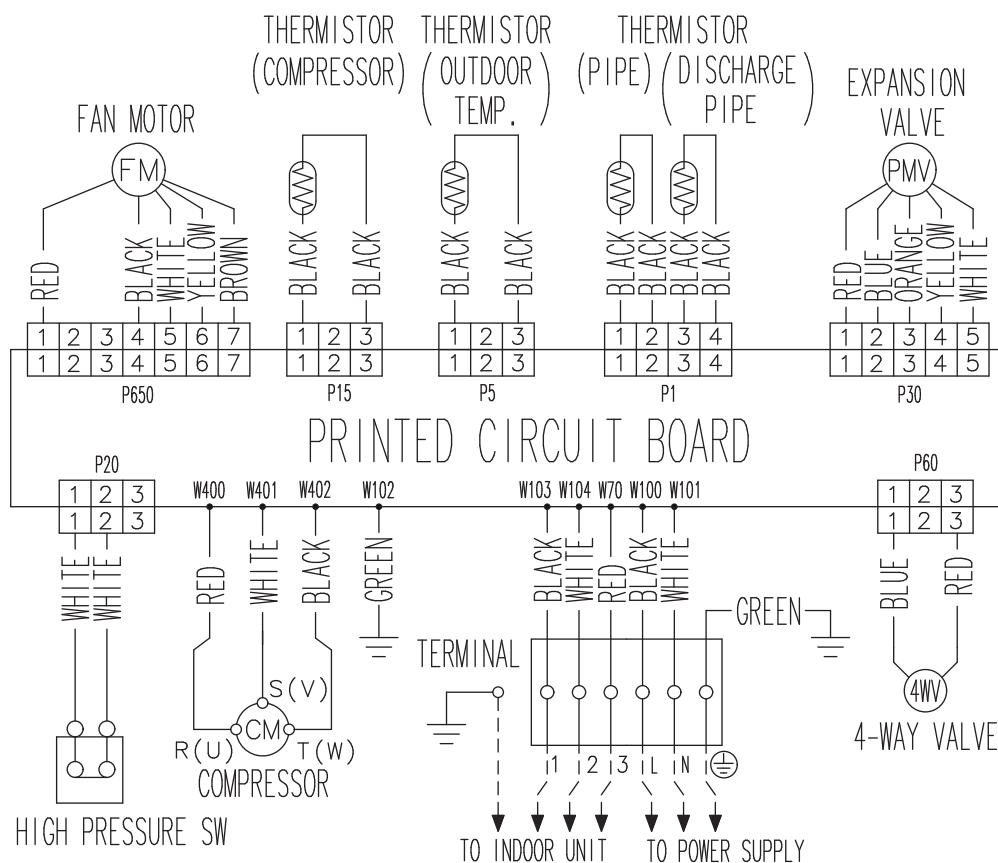
- Thc : Thermistor (Compressor temperature)
 ThD : Thermistor (Discharge temperature)
 Tho : Thermistor (Outdoor temperature)
 ThHO : Thermistor (Heat exchanger out temperature)
 ThR : Thermistor (Room temperature)
 ThPI : Thermistor (Pipe temperature)

5. Wiring diagrams

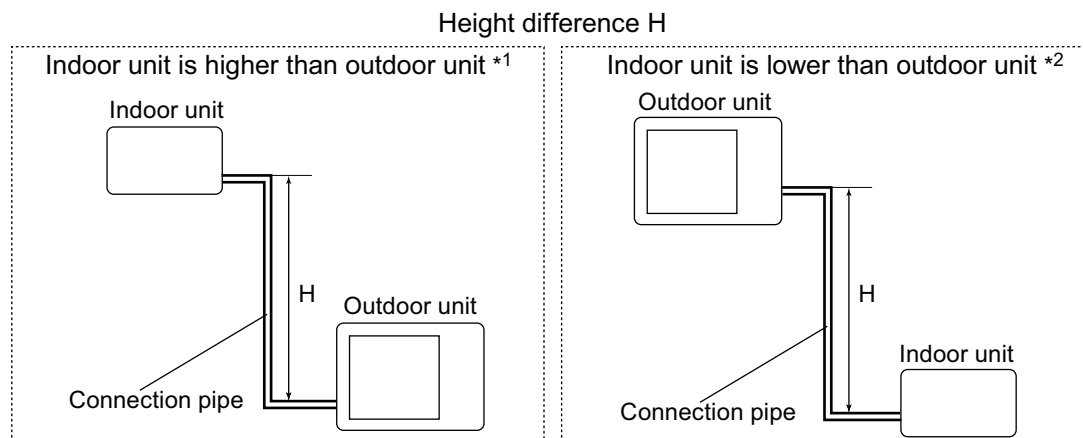
5-1. Model: AOHG18KLTA



5-2. Model: AOHG24KLTA



6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOHG18KLTA

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

| COOLING | | | Pipe length (m) | | | | | |
|-------------------------|--|------|-----------------|-------|-------|-------|-------|-------|
| | | | 5 | 7.5 | 10 | 15 | 20 | 25 |
| Height difference H (m) | Indoor unit is higher than outdoor unit *1 | 20 | — | — | — | — | 0.872 | 0.848 |
| | | 15 | — | — | — | 0.904 | 0.879 | 0.854 |
| | | 10 | — | — | 0.951 | 0.919 | 0.893 | 0.868 |
| | | 7.5 | — | 0.972 | 0.955 | 0.923 | 0.897 | 0.872 |
| | | 5 | 0.992 | 0.975 | 0.959 | 0.925 | 0.901 | 0.876 |
| | Indoor unit is lower than outdoor unit *2 | 0 | 1.000 | 0.983 | 0.967 | 0.933 | 0.908 | 0.883 |
| | | -5 | 1.000 | 0.983 | 0.967 | 0.933 | 0.908 | 0.883 |
| | | -7.5 | — | 0.983 | 0.967 | 0.933 | 0.908 | 0.883 |
| | | -10 | — | — | 0.967 | 0.933 | 0.908 | 0.883 |
| | | -15 | — | — | — | 0.933 | 0.908 | 0.883 |

| HEATING | | | Pipe length (m) | | | | | |
|-------------------------|--|------|-----------------|-------|-------|-------|-------|-------|
| | | | 5 | 7.5 | 10 | 15 | 20 | 25 |
| Height difference H (m) | Indoor unit is higher than outdoor unit *1 | 20 | — | — | — | — | 0.863 | 0.857 |
| | | 15 | — | — | — | 0.869 | 0.863 | 0.857 |
| | | 10 | — | — | 0.934 | 0.869 | 0.863 | 0.857 |
| | | 7.5 | — | 0.967 | 0.934 | 0.869 | 0.863 | 0.857 |
| | | 5 | 1.000 | 0.967 | 0.934 | 0.869 | 0.863 | 0.857 |
| | Indoor unit is lower than outdoor unit *2 | 0 | 1.000 | 0.967 | 0.934 | 0.869 | 0.863 | 0.857 |
| | | -5 | 0.995 | 0.962 | 0.930 | 0.864 | 0.859 | 0.853 |
| | | -7.5 | — | 0.960 | 0.928 | 0.862 | 0.856 | 0.850 |
| | | -10 | — | — | 0.926 | 0.860 | 0.854 | 0.848 |
| | | -15 | — | — | — | 0.852 | 0.846 | 0.840 |

6-2. Model: AOHG24KLTA

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

| COOLING | | | Pipe length (m) | | | | | | |
|-------------------------|--|------|-----------------|-------|-------|-------|-------|-------|-------|
| | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 |
| Height difference H (m) | Indoor unit is higher than outdoor unit *1 | 25 | — | — | — | — | — | 0.893 | 0.877 |
| | | 20 | — | — | — | — | 0.917 | 0.900 | 0.885 |
| | | 10 | — | — | 0.966 | 0.947 | 0.932 | 0.914 | 0.899 |
| | | 7.5 | — | 0.979 | 0.970 | 0.951 | 0.936 | 0.918 | 0.903 |
| | | 5 | 0.992 | 0.983 | 0.974 | 0.955 | 0.939 | 0.922 | 0.906 |
| | | | 0 | 1.000 | 0.991 | 0.981 | 0.963 | 0.946 | 0.930 |
| | Indoor unit is lower than outdoor unit *2 | -5 | 1.000 | 0.991 | 0.981 | 0.963 | 0.946 | 0.930 | 0.914 |
| | | -7.5 | — | 0.991 | 0.981 | 0.963 | 0.946 | 0.930 | 0.914 |
| | | -10 | — | — | 0.981 | 0.963 | 0.946 | 0.930 | 0.914 |
| | | -20 | — | — | — | — | 0.946 | 0.930 | 0.914 |
| | | -25 | — | — | — | — | — | 0.930 | 0.914 |

| HEATING | | | Pipe length (m) | | | | | | |
|-------------------------|--|------|-----------------|-------|-------|-------|-------|-------|-------|
| | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 |
| Height difference H (m) | Indoor unit is higher than outdoor unit *1 | 25 | — | — | — | — | — | 0.871 | 0.855 |
| | | 20 | — | — | — | — | 0.887 | 0.871 | 0.855 |
| | | 10 | — | — | 0.952 | 0.903 | 0.887 | 0.871 | 0.855 |
| | | 7.5 | — | 0.976 | 0.952 | 0.903 | 0.887 | 0.871 | 0.855 |
| | | 5 | 1.000 | 0.976 | 0.952 | 0.903 | 0.887 | 0.871 | 0.855 |
| | | | 0 | 1.000 | 0.976 | 0.952 | 0.903 | 0.887 | 0.871 |
| | Indoor unit is lower than outdoor unit *2 | -5 | 0.995 | 0.971 | 0.947 | 0.899 | 0.883 | 0.866 | 0.850 |
| | | -7.5 | — | 0.969 | 0.945 | 0.897 | 0.881 | 0.865 | 0.849 |
| | | -10 | — | — | 0.942 | 0.894 | 0.879 | 0.863 | 0.847 |
| | | -20 | — | — | — | — | 0.869 | 0.854 | 0.838 |
| | | -25 | — | — | — | — | — | 0.850 | 0.834 |

7. Additional charge calculation

7-1. Model: AOHG18KLTA

| | | | |
|--------------------|---|-----|-----|
| Refrigerant type | | | R32 |
| Refrigerant amount | g | 850 | |

■ Refrigerant charge

| | | | | | |
|-------------------|---|------------|-----|-----------|--------|
| Total pipe length | m | 15 or less | 20 | 25 (Max.) | 20 g/m |
| Additional charge | g | 0 | 100 | 200 | |

7-2. Model: AOHG24KLTA

| | | | |
|--------------------|---|-------|-----|
| Refrigerant type | | | R32 |
| Refrigerant amount | g | 1,100 | |

■ Refrigerant charge

| | | | | | | |
|-------------------|---|------------|-----|-----|-----------|--------|
| Total pipe length | m | 15 or less | 20 | 25 | 30 (Max.) | 20 g/m |
| Additional charge | g | 0 | 100 | 200 | 300 | |

8. Airflow

8-1. Model: AOHG18KLTA

● Cooling

| | |
|-------------------|-------|
| m ³ /h | 1,830 |
| l/s | 508 |
| CFM | 1,077 |

● Heating

| | |
|-------------------|-------|
| m ³ /h | 2,265 |
| l/s | 629 |
| CFM | 1,333 |

8-2. Model: AOHG24KLTA

● Cooling

| | |
|-------------------|-------|
| m ³ /h | 2,885 |
| l/s | 801 |
| CFM | 1,698 |

● Heating

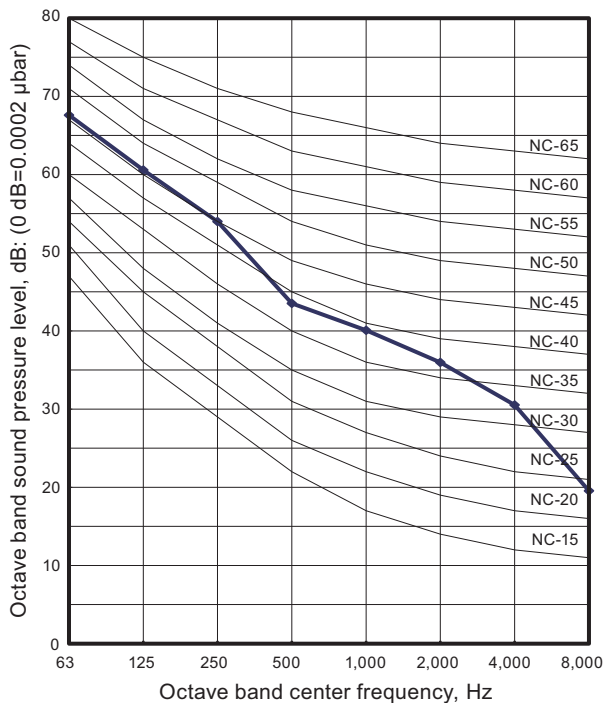
| | |
|-------------------|-------|
| m ³ /h | 3,030 |
| l/s | 842 |
| CFM | 1,783 |

9. Operation noise (sound pressure)

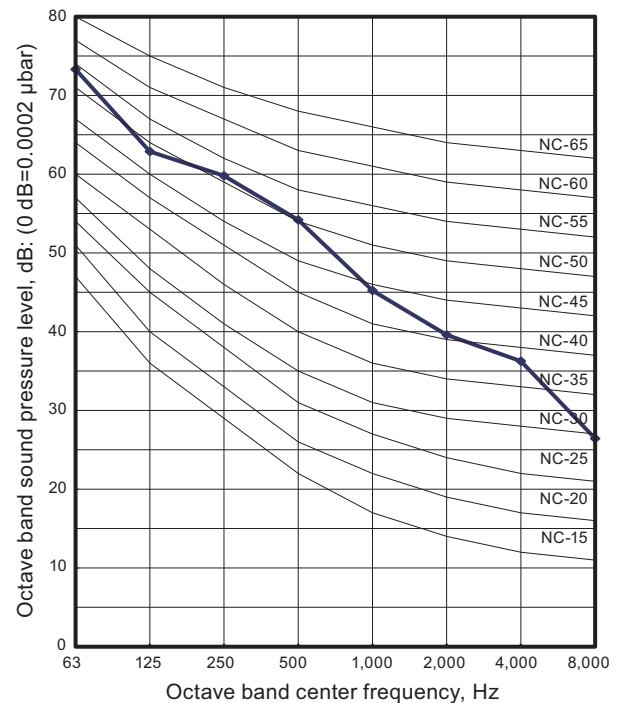
9-1. Noise level curve

Model: AOHG18KLTA

Cooling

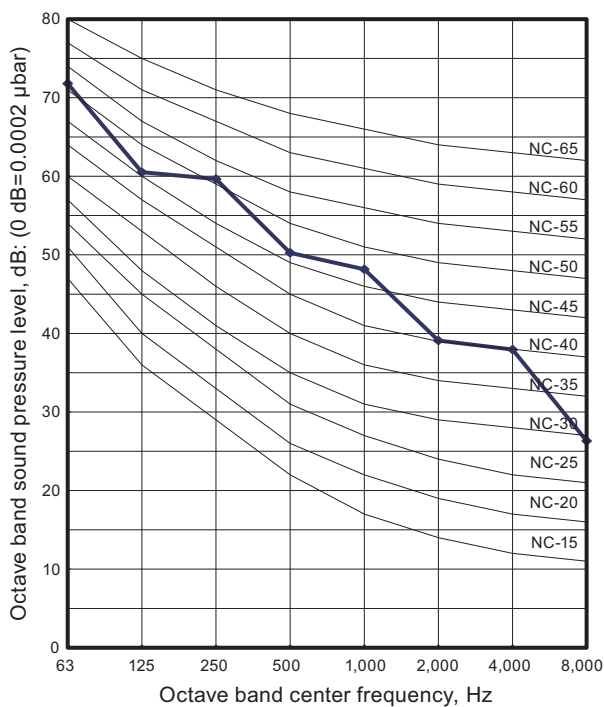


Heating

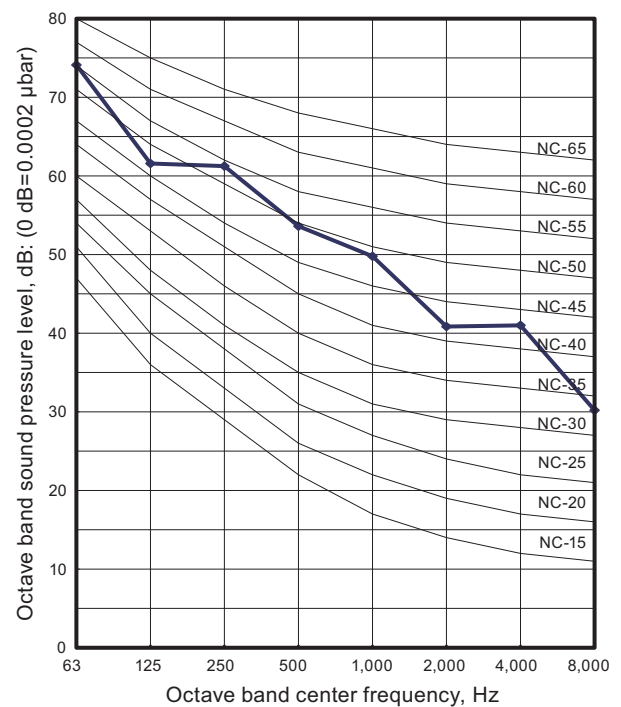


Model: AOHG24KLTA

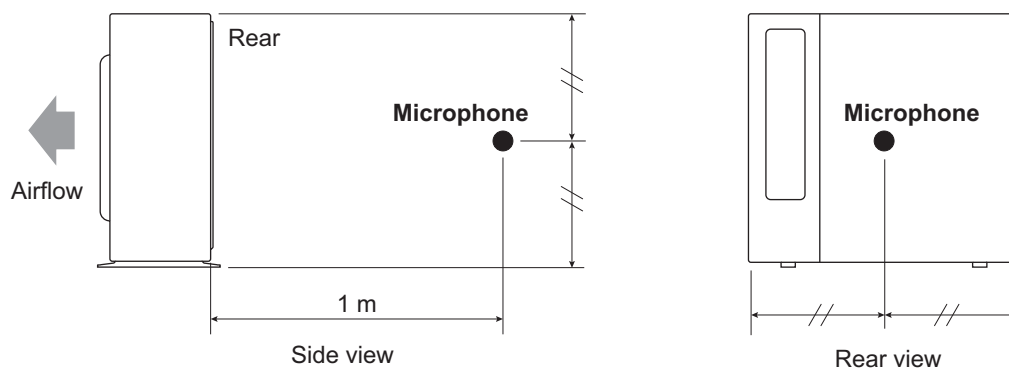
Cooling



Heating



9-2. Sound level check point



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

10. Electrical characteristics

| Model name | | | AOHG18KLTA | | AOHG24KLTA | |
|--------------------------|-------------------------|-----------------------|-----------------|-------|------------|----|
| Power supply | Voltage | | V | 230 ~ | | |
| | Frequency | | Hz | 50 | | |
| Max operating current *1 | | | A | 13.5 | 17.5 | |
| Starting current | | | A | 8.0 | 10.9 | |
| Wiring spec. *2 | Circuit breaker current | | A | 15 | 20 | |
| | Power cable | | mm ² | 1.5 | | |
| | Connection cable *3 | Cross-sectional area | mm ² | 1.5 | | |
| | | Limited wiring length | | m | 26 | 31 |

*1: Maximum operating current is the total current of the indoor unit and the outdoor unit.

*2: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005. As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.

*3: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.


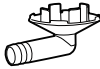
11. Safety devices

| Type of protection | Protection form | | Model | |
|-----------------------|--|----------|---------------------------------------|---------------------------------------|
| | | | AOHG18KLTA | AOHG24KLTA |
| Circuit protection | Current fuse (Main PCB) | | 250 V, 20 A | 250 V, 25 A |
| | | | 250 V, 5 A | |
| | | | — | 250 V, 3.15 A |
| Fan motor protection | Terminal protection program | Activate | 100±15 °C Fan motor stop | 125±10 °C Fan motor stop |
| | | Reset | 95±10 °C Fan motor restart | 120±10 °C Fan motor restart |
| Compressor protection | Terminal protection program (Discharge temp.) | Activate | 110 °C Compressor stop | 115 °C Compressor stop |
| | | Reset | After 7 minutes Compressor restart | After 3 minutes Compressor restart |

OUTDOOR UNIT
AOHG18, 24KLTAOUTDOOR UNIT
AOHG18, 24KLTA

12. Accessories

12-1. Models: AOHG18KLTA and AOHG24KLTA

| Part name | Exterior | Q'ty | Part name | Exterior | Q'ty |
|---------------------|---|------|------------|---|------|
| Installation manual |  | 1 | Drain pipe |  | 1 |

OUTDOOR UNIT
AOHG18, 24KLTA

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AOHG18, 24KLTA