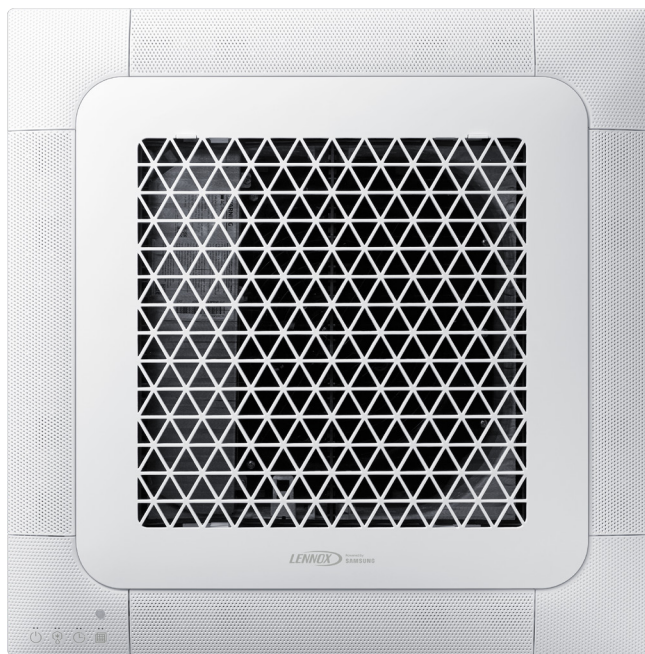
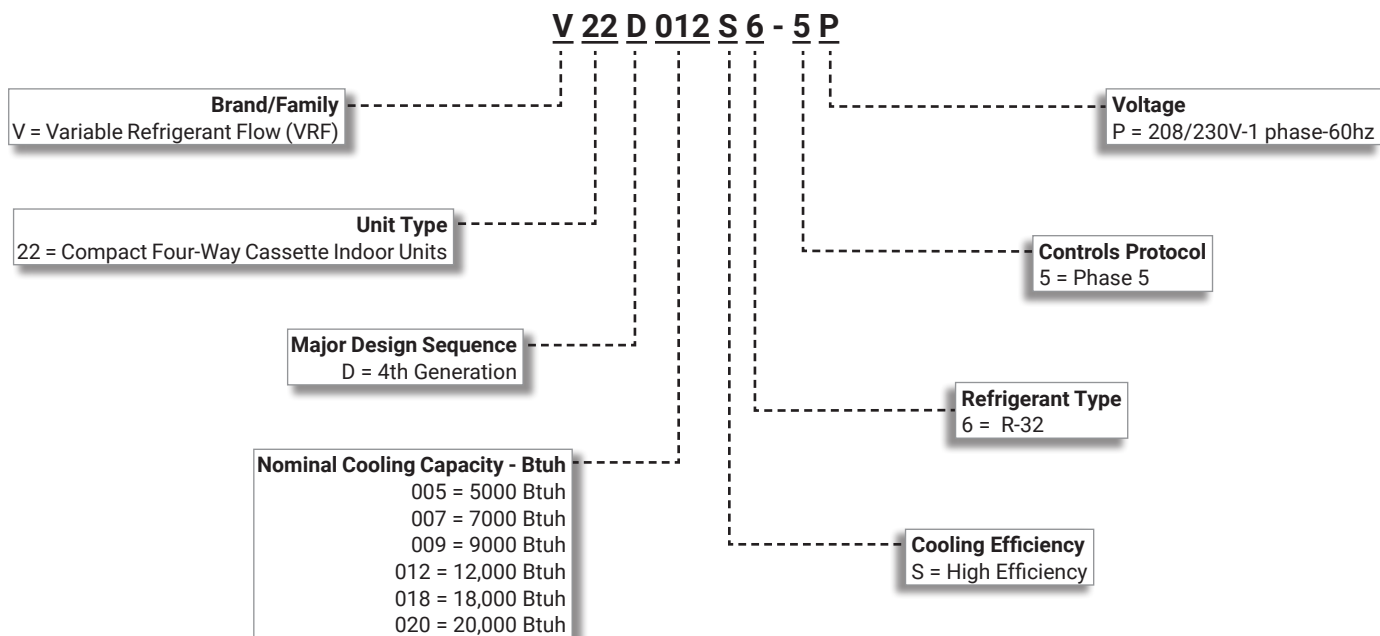


**V22D**Compact Four-Way Cassette Indoor Units | **R-32** | 60Hz

5,000 to 20,000 Btuh

**COMMERCIAL  
PRODUCT SPECIFICATIONS (EHB)****MODEL NUMBER IDENTIFICATION**

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# Specification

## V22D Cassette

|                        |                             |                              |                                    |                         |                         |                         |
|------------------------|-----------------------------|------------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| Model Name             |                             |                              |                                    | V22D005S6-5P            | V22D007S6-5P            | V22D009S6-5P            |
| Power Supply Mode      |                             |                              | Φ, #, V, Hz                        | 1,2,208-230,60          | 1,2,208-230,60          | 1,2,208-230,60          |
|                        |                             |                              | -                                  | HEAT PUMP               | HEAT PUMP               | HEAT PUMP               |
| Performance            | Capacity                    | Cooling                      | Btu/h                              | 5,000                   | 7,500                   | 9,500                   |
|                        |                             |                              | US RT                              | 0.42                    | 0.62                    | 0.79                    |
|                        |                             | Heating                      | Btu/h                              | 6,000                   | 8,700                   | 10,500                  |
|                        |                             |                              | US RT                              | 0.50                    | 0.72                    | 0.87                    |
| Power                  | Power Input                 | Cooling                      | W                                  | 18                      | 18                      | 24                      |
|                        |                             | Heating                      | W                                  | 18                      | 18                      | 24                      |
|                        | Current Input               | Cooling                      | A                                  | 0.17                    | 0.17                    | 0.17                    |
|                        |                             | Heating                      | A                                  | 0.17                    | 0.17                    | 0.17                    |
|                        | Current                     | MCA                          | A                                  | 0.24                    | 0.24                    | 0.24                    |
|                        |                             | MOP                          | A                                  | 15                      | 15                      | 15                      |
| Heat Exchanger         | Type                        |                              | -                                  | Fin & Tube              | Fin & Tube              | Fin & Tube              |
|                        | Material                    | Fin                          | -                                  | Al                      | Al                      | Al                      |
|                        |                             | Tube                         | -                                  | Cu                      | Cu                      | Cu                      |
|                        | Fin Treatment               |                              | -                                  | Blue Hydrophile         | Blue Hydrophile         | Blue Hydrophile         |
| Fan                    | Type                        |                              | -                                  | Turbo                   | Turbo                   | Turbo                   |
|                        | Quantity                    |                              | EA                                 | 1                       | 1                       | 1                       |
|                        | Air Flow Rate               | High / Med / Low             | CMM                                | 8.5 / 7.2 / 6.5         | 9.0 / 7.7 / 6.5         | 10.0 / 8.5 / 7.5        |
|                        |                             |                              | CFM                                | 300 / 254 / 230         | 318 / 272 / 230         | 353 / 300 / 265         |
|                        |                             |                              | l/s                                | 142 / 120 / 108         | 150 / 128 / 108         | 167 / 142 / 125         |
| Fan Motor              | Type                        |                              | -                                  | BLDC                    | BLDC                    | BLDC                    |
|                        | Output                      |                              | W × n                              | 65 × 1                  | 65 × 1                  | 65 × 1                  |
| Piping Connections     | Liquid Pipe                 |                              | Type                               | Flare connection        | Flare connection        | Flare connection        |
|                        |                             |                              | Φ, mm (inch)                       | 6.35 (1/4)              | 6.35 (1/4)              | 6.35 (1/4)              |
|                        | Gas Pipe                    |                              | Type                               | Flare connection        | Flare connection        | Flare connection        |
|                        |                             |                              | Φ, mm (inch)                       | 12.70 (1/2)             | 12.70 (1/2)             | 12.70 (1/2)             |
|                        | Heat insulation             |                              | -                                  | Both liquid & gas pipes | Both liquid & gas pipes | Both liquid & gas pipes |
|                        | Drain Pipe                  |                              | Φ,mm                               | VP25 (OD 32,ID 25)      | VP25 (OD 32,ID 25)      | VP25 (OD 32,ID 25)      |
| Wiring Connections     | Communication               | Min.                         | mm²                                | 0.75                    | 0.75                    | 0.75                    |
|                        |                             |                              | AWG                                | 18                      | 18                      | 18                      |
|                        | Remark                      |                              | -                                  | F1, F2                  | F1, F2                  | F1, F2                  |
| Refrigerant            | Type                        |                              | -                                  | R32                     | R32                     | R32                     |
|                        | Control Method              |                              | -                                  | EEV INCLUDED            | EEV INCLUDED            | EEV INCLUDED            |
| Sound Level            | Sound Pressure Level        | High / Med / Low / Wind Free | dB(A)                              | 30 / 28 / 23            | 32 / 29 / 25            | 33 / 30 / 26            |
|                        | Sound Power Level           | Cooling                      | dB(A)                              | 46                      | 47                      | 50                      |
| Dimensions             | Net Weight                  |                              | kg                                 | 11.5                    | 11.6                    | 11.6                    |
|                        |                             |                              | lbs                                | 25.4                    | 25.6                    | 25.6                    |
|                        | Shipping Weight             |                              | kg                                 | 13.6                    | 13.8                    | 13.8                    |
|                        |                             |                              | lbs                                | 30.0                    | 30.4                    | 30.4                    |
|                        | Net Dimensions (W×H×D)      |                              | mm                                 | 575 x 250 x 575         | 575 x 250 x 575         | 575 x 250 x 575         |
|                        |                             |                              | inch                               | 22.64 x 9.84 x 22.64    | 22.64 x 9.84 x 22.64    | 22.64 x 9.84 x 22.64    |
|                        | Shipping Dimensions (W×H×D) |                              | mm                                 | 623 x 298 x 653         | 623 x 298 x 653         | 623 x 298 x 653         |
|                        |                             |                              | inch                               | 24.53 x 11.73 x 25.71   | 24.53 x 11.73 x 25.71   | 24.53 x 11.73 x 25.71   |
| Casing                 | Material                    |                              | -                                  | Polypropylene           | Polypropylene           | Polypropylene           |
| Panel                  | Model Name                  |                              | -                                  | V1V22D01CPWW            | V1V22D01CPWW            | V1V22D01CPWW            |
|                        | Type                        |                              | -                                  | Wind Free               | Wind Free               | Wind Free               |
|                        | Material                    |                              | -                                  | HIPS                    | HIPS                    | HIPS                    |
|                        | Color                       |                              | -                                  | DA White                | DA White                | DA White                |
|                        | Net Weight                  |                              | kg                                 | 2.7                     | 2.7                     | 2.7                     |
|                        |                             |                              | lbs                                | 6.0                     | 6.0                     | 6.0                     |
|                        | Shipping Weight             |                              | kg                                 | 3.9                     | 3.9                     | 3.9                     |
|                        |                             |                              | lbs                                | 8.6                     | 8.6                     | 8.6                     |
|                        | Net Dimensions (WxHxD)      |                              | mm                                 | 620 x 34 x 620          | 620 x 34 x 620          | 620 x 34 x 620          |
|                        |                             |                              | inch                               | 24.41 x 1.42 x 24.41    | 24.41 x 1.42 x 24.41    | 24.41 x 1.42 x 24.41    |
|                        | Shipping Dimensions (W×H×D) |                              | mm                                 | 670 x 120 x 655         | 670 x 120 x 655         | 670 x 120 x 655         |
|                        |                             |                              | inch                               | 26.38 x 4.72 x 25.79    | 26.38 x 4.72 x 25.79    | 26.38 x 4.72 x 25.79    |
| Additional Accessories | Drain pump                  |                              | -                                  | Included                | Included                | Included                |
|                        |                             |                              | Max. lifting Height / Displacement | in / gal/h              | 29.53 / 6.34            | 29.53 / 6.34            |
|                        | Air Filter                  |                              | -                                  | Panel Included          | Panel Included          | Panel Included          |

• Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.

- Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB

- Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB

- Equivalent refrigerant piping length 7.5m(24.6ft), Level differences : 0m(0ft)

2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

4) Select wire size based on the value of MCA

# Specification

## V22D Cassette

|                        |                             |                              |                                    |                         |                         |                         |
|------------------------|-----------------------------|------------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| Model Name             |                             |                              |                                    | V22D012S6-5P            | V22D018S6-5P            | V22D020S6-5P            |
| Power Supply Mode      |                             |                              | Φ, #, V, Hz                        | 1,2,208-230,60          | 1,2,208-230,60          | 1,2,208-230,60          |
|                        |                             |                              | -                                  | HEAT PUMP               | HEAT PUMP               | HEAT PUMP               |
| Performance            | Capacity                    | Cooling                      | Btu/h                              | 12,000                  | 18,000                  | 20,000                  |
|                        |                             |                              | US RT                              | 1.00                    | 1.50                    | 1.67                    |
|                        |                             | Heating                      | Btu/h                              | 13,500                  | 20,000                  | 23,000                  |
|                        |                             |                              | US RT                              | 1.12                    | 1.67                    | 1.92                    |
| Power                  | Power Input                 | Cooling                      | W                                  | 28                      | 36                      | 38                      |
|                        |                             | Heating                      | W                                  | 28                      | 36                      | 38                      |
|                        | Current Input               | Cooling                      | A                                  | 0.19                    | 0.27                    | 0.30                    |
|                        |                             | Heating                      | A                                  | 0.19                    | 0.27                    | 0.30                    |
|                        | Current                     | MCA                          | A                                  | 0.26                    | 0.38                    | 0.41                    |
|                        |                             | MOP                          | A                                  | 15                      | 15                      | 15                      |
| Heat Exchanger         | Type                        |                              | -                                  | Fin & Tube              | Fin & Tube              | Fin & Tube              |
|                        | Material                    | Fin                          | -                                  | Al                      | Al                      | Al                      |
|                        |                             | Tube                         | -                                  | Cu                      | Cu                      | Cu                      |
|                        | Fin Treatment               |                              | -                                  | Blue Hydrophile         | Blue Hydrophile         | Blue Hydrophile         |
| Fan                    | Type                        |                              | -                                  | Turbo                   | Turbo                   | Turbo                   |
|                        | Quantity                    |                              | EA                                 | 1                       | 1                       | 1                       |
|                        | Air Flow Rate               | High / Med / Low             | CMM                                | 10.5 / 9.5 / 8.0        | 13.0 / 11.0 / 9.5       | 13.5 / 12.0 / 10.2      |
|                        |                             |                              | CFM                                | 371 / 335 / 283         | 459 / 388 / 335         | 477 / 424 / 360         |
|                        |                             |                              | l/s                                | 175 / 158 / 133         | 217 / 183 / 158         | 225 / 200 / 170         |
| Fan Motor              | Type                        |                              | -                                  | BLDC                    | BLDC                    | BLDC                    |
|                        | Output                      |                              | W × n                              | 65 × 1                  | 65 × 1                  | 65 × 1                  |
| Piping Connections     | Liquid Pipe                 |                              | Type                               | Flare connection        | Flare connection        | Flare connection        |
|                        |                             |                              | Φ, mm (inch)                       | 6.35 (1/4)              | 6.35 (1/4)              | 6.35 (1/4)              |
|                        | Gas Pipe                    |                              | Type                               | Flare connection        | Flare connection        | Flare connection        |
|                        |                             |                              | Φ, mm (inch)                       | 12.70 (1/2)             | 12.70 (1/2)             | 12.70 (1/2)             |
|                        | Heat insulation             |                              | -                                  | Both liquid & gas pipes | Both liquid & gas pipes | Both liquid & gas pipes |
| Drain Pipe             |                             | Φ,mm                         | VP25 (OD 32,ID 25)                 | VP25 (OD 32,ID 25)      | VP25 (OD 32,ID 25)      |                         |
| Wiring Connections     | Communication               | Min.                         | mm <sup>2</sup>                    | 0.75                    | 0.75                    | 0.75                    |
|                        |                             |                              | AWG                                | 18                      | 18                      | 18                      |
|                        | Remark                      |                              | -                                  | F1, F2                  | F1, F2                  | F1, F2                  |
| Refrigerant            | Type                        |                              | -                                  | R32                     | R32                     | R32                     |
|                        | Control Method              |                              | -                                  | EEV INCLUDED            | EEV INCLUDED            | EEV INCLUDED            |
| Sound Level            | Sound Pressure Level        | High / Med / Low / Wind Free | dB(A)                              | 34 / 30 / 26            | 39 / 26 / 33            | 40 / 38 / 35            |
|                        | Sound Power Level           | Cooling                      | dB(A)                              | 51                      | 56                      | 57                      |
| Dimensions             | Net Weight                  |                              | kg                                 | 11.6                    | 12.0                    | 12.0                    |
|                        |                             |                              | lbs                                | 25.6                    | 26.5                    | 26.5                    |
|                        | Shipping Weight             |                              | kg                                 | 13.8                    | 14.0                    | 14.0                    |
|                        |                             |                              | lbs                                | 30.4                    | 30.9                    | 30.9                    |
|                        | Net Dimensions (W×H×D)      |                              | mm                                 | 575 x 250 x 575         | 575 x 250 x 575         | 575 x 250 x 575         |
|                        |                             |                              | inch                               | 22.64 x 9.84 x 22.64    | 22.64 x 9.84 x 22.64    | 22.64 x 9.84 x 22.64    |
|                        | Shipping Dimensions (W×H×D) |                              | mm                                 | 623 x 298 x 653         | 623 x 298 x 653         | 623 x 298 x 653         |
|                        |                             |                              | inch                               | 24.53 x 11.73 x 25.71   | 24.53 x 11.73 x 25.71   | 24.53 x 11.73 x 25.71   |
| Casing                 | Material                    |                              | -                                  | Polypropylene           | Polypropylene           | Polypropylene           |
| Panel                  | Model Name                  |                              | -                                  | V1V22D01CPWW            | V1V22D01CPWW            | V1V22D01CPWW            |
|                        | Type                        |                              | -                                  | Wind Free               | Wind Free               | Wind Free               |
|                        | Material                    |                              | -                                  | HIPS                    | HIPS                    | HIPS                    |
|                        | Color                       |                              | -                                  | DA White                | DA White                | DA White                |
|                        | Net Weight                  |                              | kg                                 | 2.7                     | 2.7                     | 2.7                     |
|                        |                             |                              | lbs                                | 6.0                     | 6.0                     | 6.0                     |
|                        | Shipping Weight             |                              | kg                                 | 3.9                     | 3.9                     | 3.9                     |
|                        |                             |                              | lbs                                | 8.6                     | 8.6                     | 8.6                     |
|                        | Net Dimensions (WxHxD)      |                              | mm                                 | 620 x 34 x 620          | 620 x 34 x 620          | 620 x 34 x 620          |
|                        |                             |                              | inch                               | 24.41 x 1.42 x 24.41    | 24.41 x 1.42 x 24.41    | 24.41 x 1.42 x 24.41    |
|                        | Shipping Dimensions (W×H×D) |                              | mm                                 | 670 x 120 x 655         | 670 x 120 x 655         | 670 x 120 x 655         |
|                        |                             |                              | inch                               | 26.38 x 4.72 x 25.79    | 26.38 x 4.72 x 25.79    | 26.38 x 4.72 x 25.79    |
| Additional Accessories | Drain pump                  |                              | -                                  | Included                | Included                | Included                |
|                        |                             |                              | Max. lifting Height / Displacement | in / gal/h              | 29.53 / 6.34            | 29.53 / 6.34            |
|                        | Air Filter                  |                              | -                                  | Panel Included          | Panel Included          | Panel Included          |

• Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.

- Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB

- Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB

- Equivalent refrigerant piping length 7.5m(24.6ft), Level differences : 0m(0ft)

2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

4) Select wire size based on the value of MCA

# Summary Table

## V22D Cassette

### Performance Characteristics

| Model Code   | Net Weight (lbs) | Fan Speed | Nominal Capacity(Btu/h) |          |         | Airflow (CFM) | Sound Pressure (dBA) | Sound Power (dBA) |
|--------------|------------------|-----------|-------------------------|----------|---------|---------------|----------------------|-------------------|
|              |                  |           | Cooling                 | Sensible | Heating |               |                      |                   |
| V22D005S6-5P | 25.4             | High      | 5,000                   | 4,500    | 6,000   | 300           | 30                   | 46                |
|              |                  | Mid       | 4,300                   | 3,900    | 5,500   | 254           | 28                   | -                 |
|              |                  | Low       | 3,900                   | 3,500    | 5,200   | 230           | 23                   | -                 |
| V22D007S6-5P | 25.6             | High      | 7,500                   | 5,100    | 8,700   | 318           | 32                   | 47                |
|              |                  | Mid       | 6,500                   | 4,400    | 8,000   | 272           | 29                   | -                 |
|              |                  | Low       | 5,600                   | 3,800    | 7,400   | 230           | 25                   | -                 |
| V22D009S6-5P | 25.6             | High      | 9,500                   | 6,700    | 10,500  | 353           | 33                   | 50                |
|              |                  | Mid       | 8,200                   | 5,800    | 9,700   | 300           | 30                   | -                 |
|              |                  | Low       | 7,300                   | 5,100    | 9,100   | 265           | 26                   | -                 |
| V22D012S6-5P | 25.6             | High      | 12,000                  | 8,300    | 13,500  | 371           | 34                   | 51                |
|              |                  | Mid       | 11,000                  | 7,600    | 12,800  | 335           | 30                   | -                 |
|              |                  | Low       | 9,400                   | 6,500    | 11,800  | 283           | 26                   | -                 |
| V22D018S6-5P | 26.5             | High      | 18,000                  | 12,400   | 20,000  | 459           | 39                   | 56                |
|              |                  | Mid       | 15,500                  | 10,700   | 18,400  | 388           | 36                   | -                 |
|              |                  | Low       | 13,600                  | 9,400    | 17,100  | 335           | 33                   | -                 |
| V22D020S6-5P | 26.5             | High      | 20,000                  | 15,000   | 23,000  | 477           | 40                   | 57                |
|              |                  | Mid       | 18,100                  | 13,600   | 21,700  | 424           | 38                   | -                 |
|              |                  | Low       | 15,600                  | 11,700   | 20,000  | 360           | 35                   | -                 |

### NOTE

- Sound data is based on cooling operation.

### Electric Characteristics

| Indoor Unit  | Power Supply (Ø, #, V, Hz) | Power Input (W) | Current Input (A) | MCA (A) | MFA (A) | FLA (A) |
|--------------|----------------------------|-----------------|-------------------|---------|---------|---------|
| V22D005S6-5P | 1,2,208~230,60             | 18              | 0.17              | 0.24    | 15      | 0.19    |
| V22D007S6-5P | 1,2,208~230,60             | 18              | 0.17              | 0.24    | 15      | 0.19    |
| V22D009S6-5P | 1,2,208~230,60             | 24              | 0.17              | 0.24    | 15      | 0.19    |
| V22D012S6-5P | 1,2,208~230,60             | 28              | 0.19              | 0.26    | 15      | 0.21    |
| V22D018S6-5P | 1,2,208~230,60             | 36              | 0.27              | 0.38    | 15      | 0.30    |
| V22D020S6-5P | 1,2,208~230,60             | 38              | 0.3               | 0.41    | 15      | 0.33    |

### NOTE

- MCA : Minimum circuit amperes
- MOP: Maximum Overcurrent Protective Device
- FLA: Full load amperes
- Select wire size based on the value of MCA

# Capacity Table

## V22D Cassette

### Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

| Model        | Outdoor temperature (°F, DB) | Indoor temperature (°F, DB / WB) |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------------------------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |                              | 57                               |        | 61     |        | 64     |        | 67     |        | 70     |        | 72     |        | 75     |        |
|              |                              | TC                               | SHC    | TC     | SHC    | TC     | SHC    | TC     | SHC    | TC     | SHC    | TC     | SHC    | TC     | SHC    |
|              |                              | Btu/h                            | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  | Btu/h  |
| V22D005S6-5P | 95                           | 4,200                            | 3,780  | 4,850  | 4,370  | 5,000  | 4,500  | 5,000  | 4,500  | 5,300  | 4,770  | 5,600  | 4,760  | 5,900  | 4,720  |
| V22D007S6-5P | 95                           | 5,100                            | 4,400  | 6,200  | 4,800  | 7,200  | 5,200  | 7,500  | 5,200  | 8,200  | 5,200  | 8,600  | 5,100  | 8,900  | 4,900  |
| V22D009S6-5P | 95                           | 6,400                            | 6,800  | 7,800  | 7,100  | 8,800  | 6,800  | 9,500  | 6,800  | 9,800  | 6,800  | 10,500 | 6,800  | 11,200 | 6,100  |
| V22D012S6-5P | 95                           | 8,300                            | 7,300  | 9,700  | 8,300  | 11,300 | 9,000  | 12,000 | 9,300  | 12,300 | 9,300  | 13,300 | 9,300  | 14,000 | 8,700  |
| V22D018S6-5P | 95                           | 12,400                           | 11,200 | 14,800 | 12,800 | 16,800 | 13,200 | 18,000 | 13,600 | 18,800 | 13,600 | 20,000 | 13,600 | 21,200 | 12,800 |
| V22D020S6-5P | 95                           | 13,900                           | 12,100 | 16,400 | 13,900 | 18,900 | 14,600 | 20,000 | 15,400 | 20,700 | 15,400 | 22,100 | 15,400 | 23,600 | 14,600 |

### Heating

TC : Total Capacity

| Model        | Outdoor temperature (°F, DB) |    | Indoor temperature (°F, DB) |        |        |        |        |
|--------------|------------------------------|----|-----------------------------|--------|--------|--------|--------|
|              |                              |    | 61                          | 65     | 70     | 72     | 75     |
|              |                              |    | TC                          | TC     | TC     | TC     | TC     |
|              | DB                           | WB | Btu/h                       | Btu/h  | Btu/h  | Btu/h  | Btu/h  |
| V22D005S6-5P | 47                           | 43 | 7,500                       | 6,700  | 6,000  | 6,000  | 6,000  |
| V22D007S6-5P | 47                           | 43 | 9,600                       | 9,200  | 8,700  | 8,300  | 7,800  |
| V22D009S6-5P | 47                           | 43 | 11,200                      | 10,800 | 10,500 | 10,200 | 9,100  |
| V22D012S6-5P | 47                           | 43 | 14,400                      | 14,400 | 13,500 | 13,000 | 11,900 |
| V22D018S6-5P | 47                           | 43 | 21,500                      | 21,200 | 20,000 | 19,200 | 17,500 |
| V22D020S6-5P | 47                           | 43 | 24,900                      | 24,600 | 23,000 | 22,500 | 20,400 |

#### NOTE

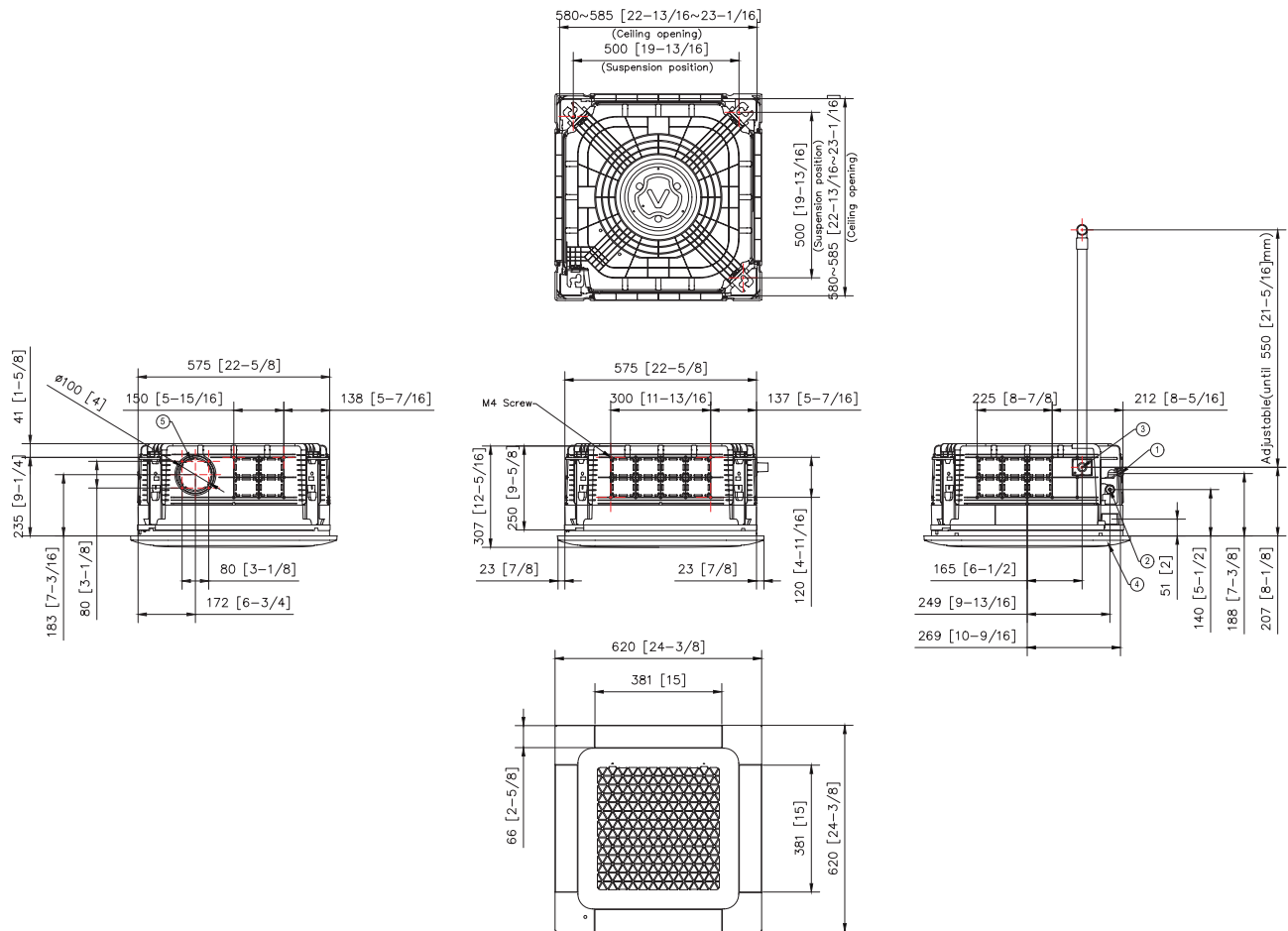
- The performance table shows the average value of each conditions.

# Dimensional Drawing

## V22D Cassette

V22D005S6-5P, V22D007S6-5P, V22D009S6-5P, V22D012S6-5P, V22D018S6-5P  
V22D020S6-5P

Units : mm [inches]



| N.o | Name                                        | Description           |
|-----|---------------------------------------------|-----------------------|
| 1   | Liquid pipe connection                      | Φ6.35(1/4)            |
| 2   | Gas pipe connection                         | Φ12.7(1/2)            |
| 3   | Drain pipe connection                       | VP25 (OD 32,ID 25)    |
| 4   | Power supply & Communication wiring conduit |                       |
| 5   | Sub duct connection                         | Use M4 Screw          |
| 6   | Fresh air intake knockout hole              | Φ10[4] , Use M4 Screw |

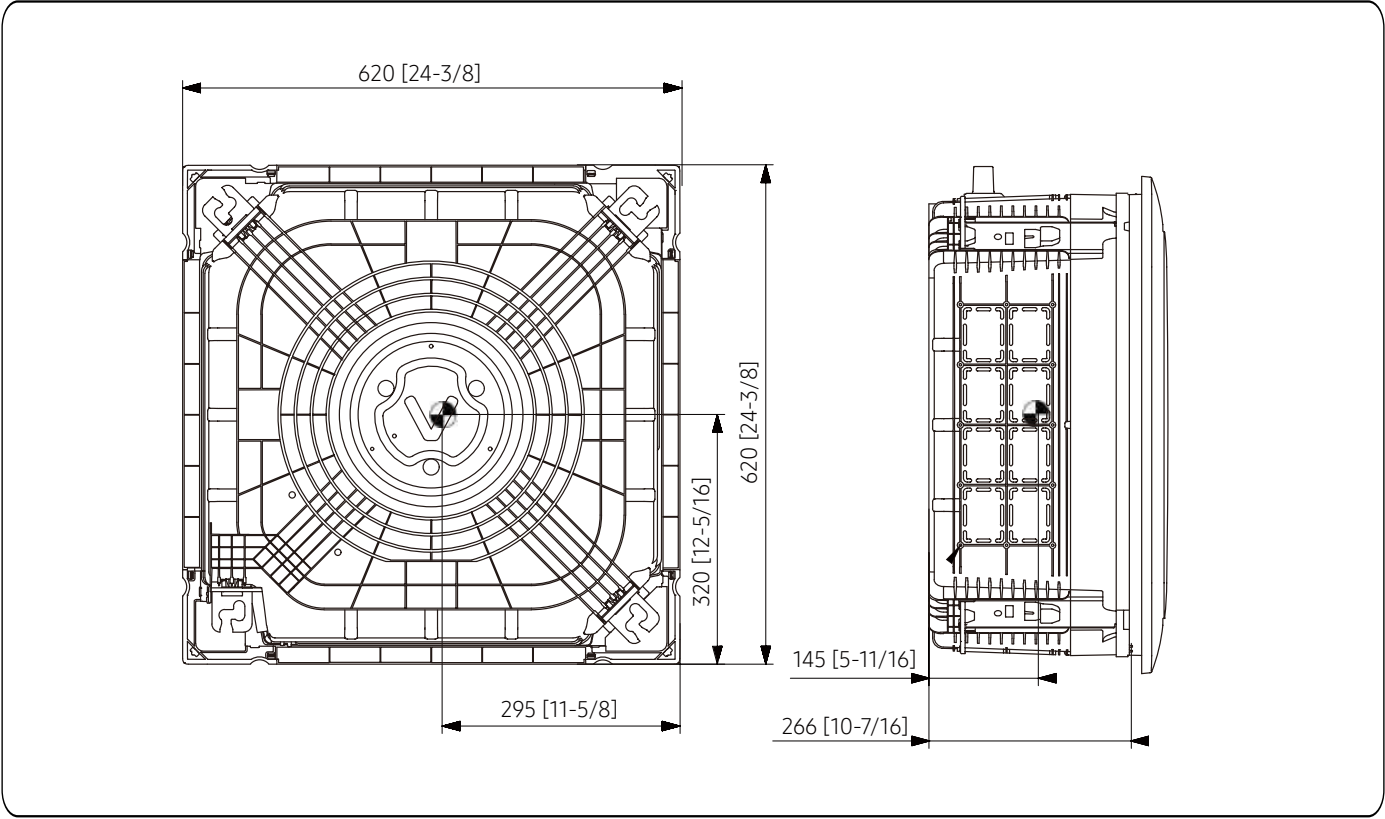
### NOTE

- As for suspension bolt, please use M8 ~ M10.  
(Procured at local site)

# Center of Gravity

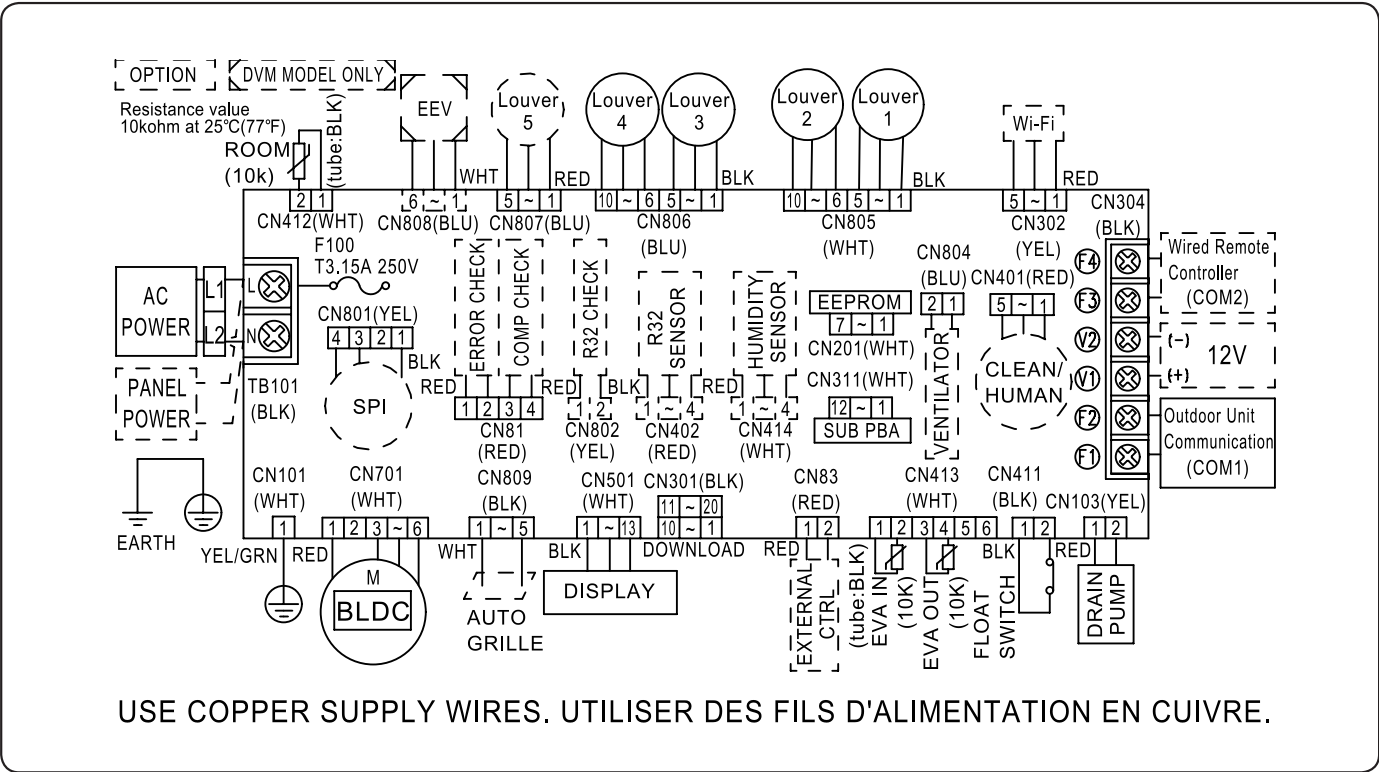
## V22D Cassette

Units : mm [inches]



# Electrical Wiring Diagram

## V22D Cassette



|        |            |             |                            |              |                          |
|--------|------------|-------------|----------------------------|--------------|--------------------------|
| F100   | FUSE       | EEV         | Electronic Expansion Valve | ROOM(10K)    | Thermistor ROOM OUT(10K) |
| M-BLDC | BLDC Motor | EXT_CONTROL | EXTERNAL_CONTROL           | EVA-IN(10K)  | Thermistor EVA IN(10K)   |
|        |            |             |                            | EVA-OUT(10K) | Thermistor EVA OUT(10K)  |

### NOTE

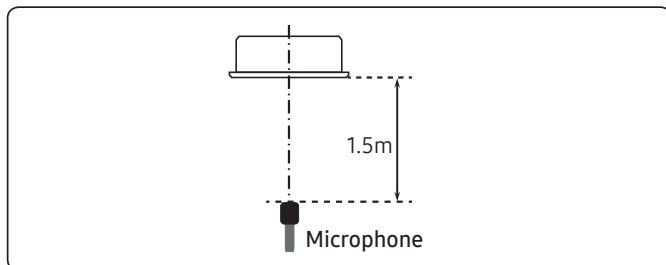
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :  
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw), : connector, : The wire quantity

# Sound Data

## V22D Cassette

### Sound Pressure level

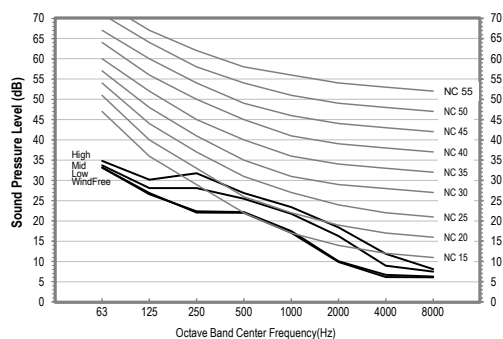
Unit: dB(A)



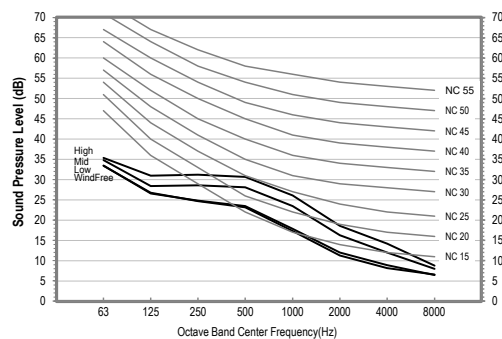
| Model        | High | MID | LOW | WindFree |
|--------------|------|-----|-----|----------|
| V22D005S6-5P | 30   | 28  | 23  | 23       |
| V22D007S6-5P | 32   | 29  | 25  | 25       |
| V22D009S6-5P | 33   | 30  | 26  | 26       |
| V22D012S6-5P | 34   | 30  | 26  | 26       |

#### • NC Curve

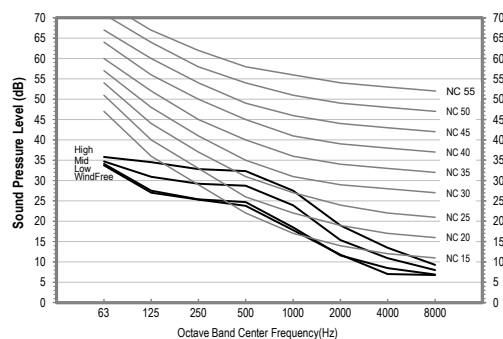
##### 1) V22D005S6-5P



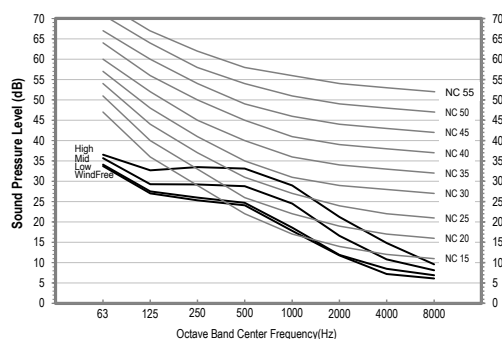
##### 2) V22D007S6-5P



##### 3) V22D009S6-5P



##### 4) V22D012S6-5P



#### NOTE

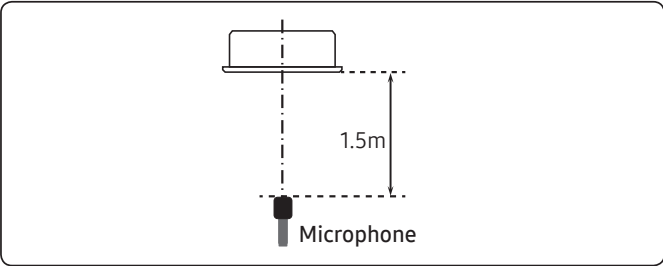
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# Sound Data

## V22D Cassette

### Sound Pressure level

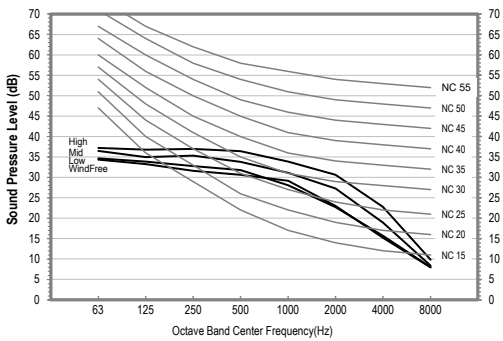
Unit: dB(A)



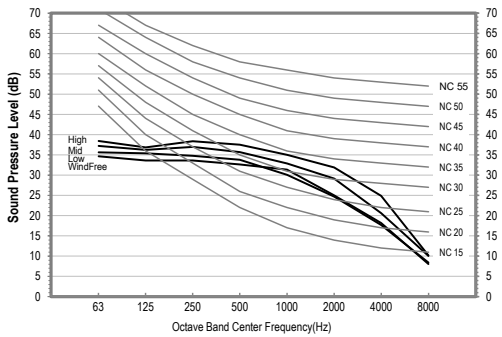
| Model        | High | MID | LOW | WindFree |
|--------------|------|-----|-----|----------|
| V22D018S6-5P | 39   | 36  | 33  | 33       |
| V22D020S6-5P | 40   | 38  | 35  | 35       |

- NC Curve

5) V22D018S6-5P



6) V22D020S6-5P



### NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

# Sound Data

## V22D Cassette

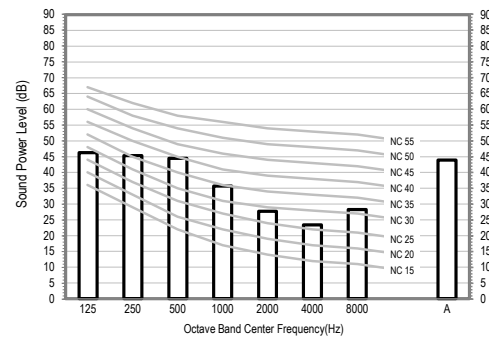
### Sound Power level

 **NOTE**

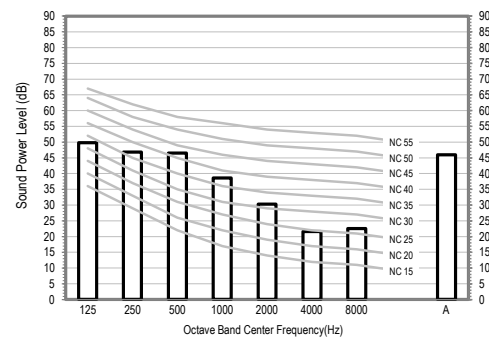
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

• NC Curve

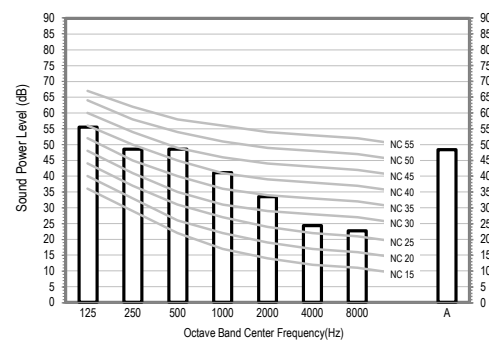
1) V22D005S6-5P



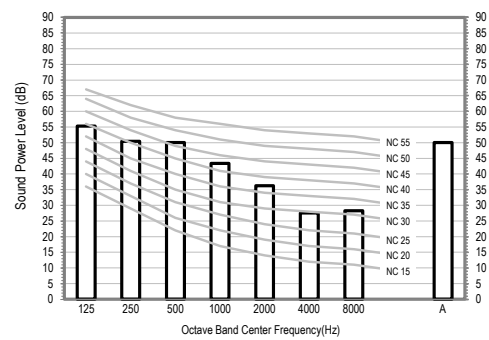
2) V22D007S6-5P



3) V22D009S6-5P



4) V22D012S6-5P



Unit: dB(A)

| Model        | Power |
|--------------|-------|
| V22D005S6-5P | 46    |
| V22D007S6-5P | 47    |
| V22D009S6-5P | 50    |
| V22D012S6-5P | 51    |

# Sound Data

## V22D Cassette

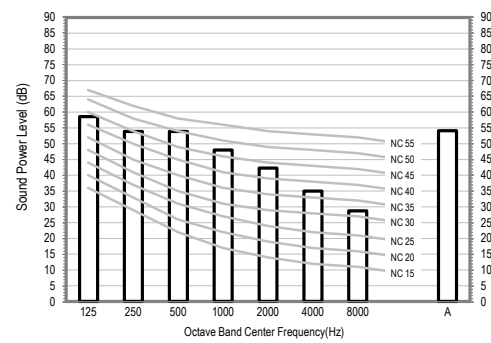
### Sound Power level

 **NOTE**

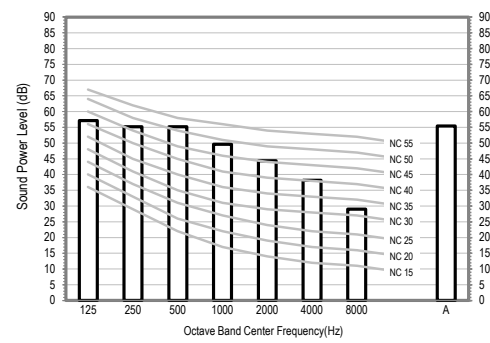
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NC Curve

5) V22D018S6-5P



6) V22D020S6-5P



Unit: dB(A)

| Model        | Power |
|--------------|-------|
| V22D018S6-5P | 56    |
| V22D020S6-5P | 57    |

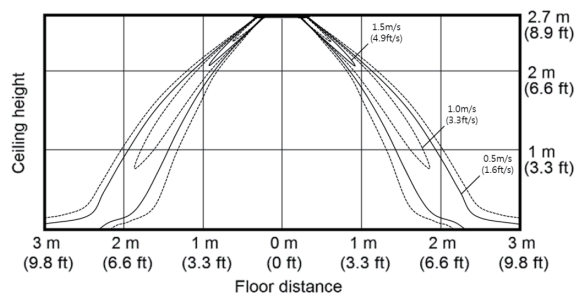
# Temperature and air flow distribution

## V22D Cassette

### V22D005S6-5P

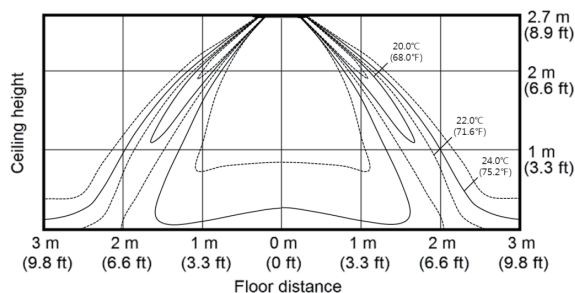
- Cooling Air Velocity distribution

Discharge angle : 41°



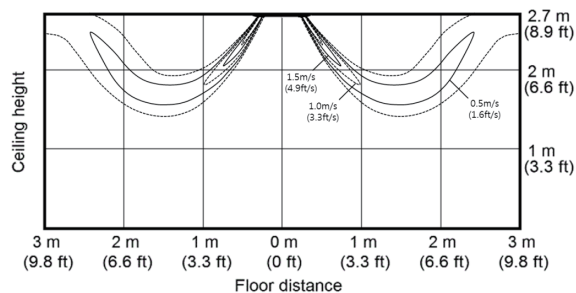
- Cooling Temperature distribution

Discharge angle : 41°



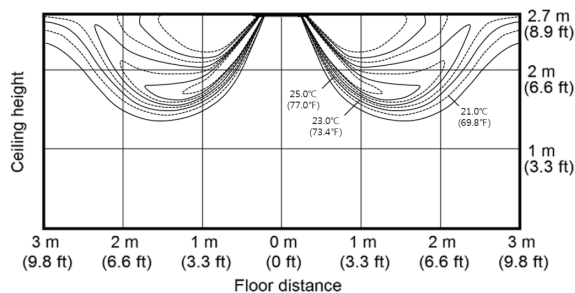
- Heating Air Velocity distribution

Discharge angle : 56°



- Heating Temperature distribution

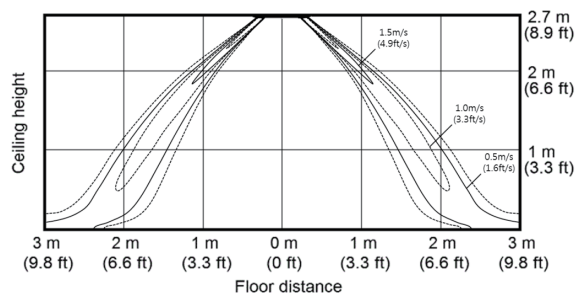
Discharge angle : 56°



### V22D007S6-5P

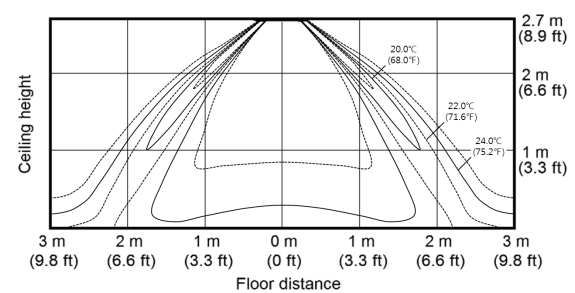
- Cooling Air Velocity distribution

Discharge angle : 41°



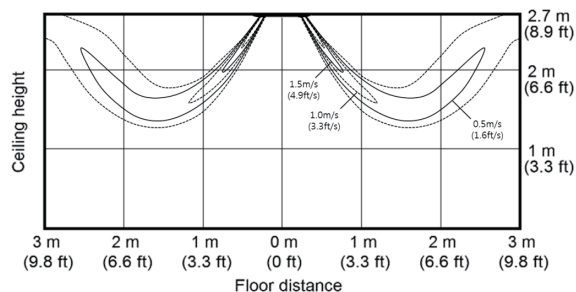
- Cooling Temperature distribution

Discharge angle : 41°



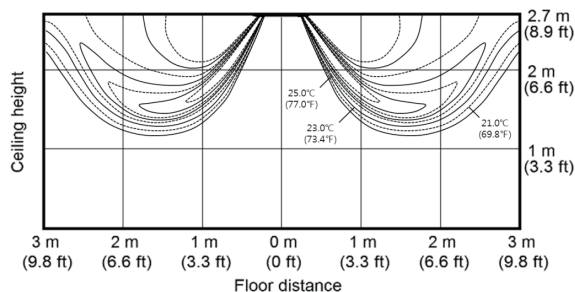
- Heating Air Velocity distribution

Discharge angle : 56°



- Heating Temperature distribution

Discharge angle : 56°



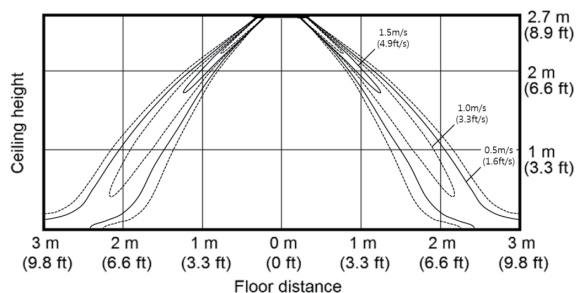
# Temperature and air flow distribution

## V22D Cassette

### V22D009S6-5P

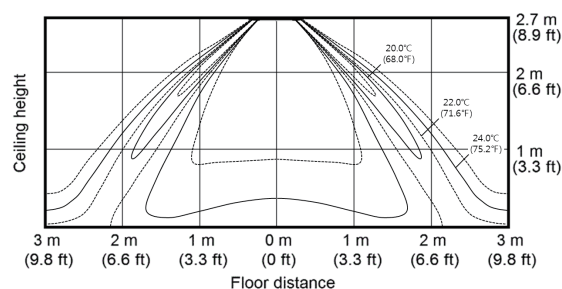
- Cooling Air Velocity distribution

Discharge angle : 41°



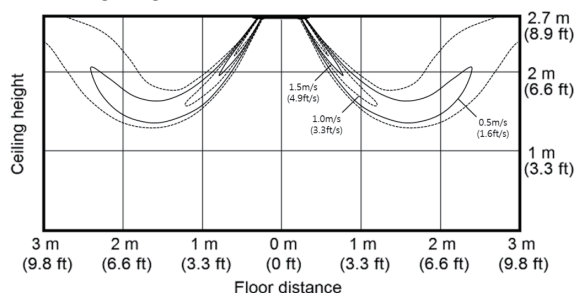
- Cooling Temperature distribution

Discharge angle : 41°



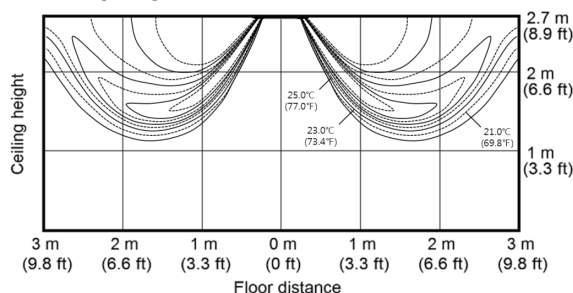
- Heating Air Velocity distribution

Discharge angle : 56°



- Heating Temperature distribution

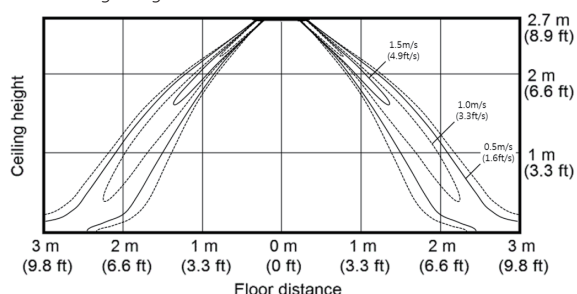
Discharge angle : 56°



### V22D012S6-5P

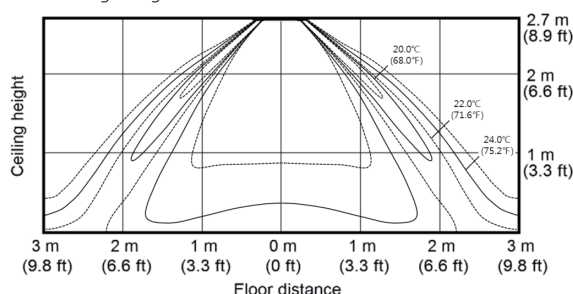
- Cooling Air Velocity distribution

Discharge angle : 41°



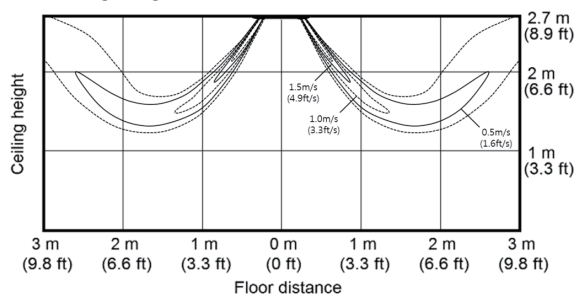
- Cooling Temperature distribution

Discharge angle : 41°



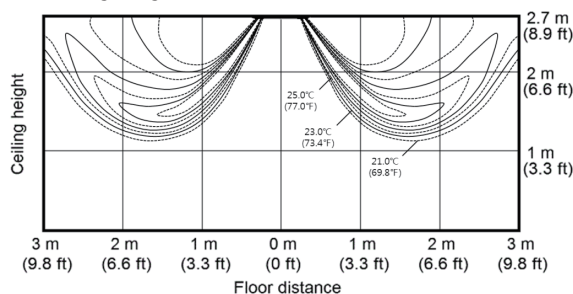
- Heating Air Velocity distribution

Discharge angle : 56°



- Heating Temperature distribution

Discharge angle : 56°



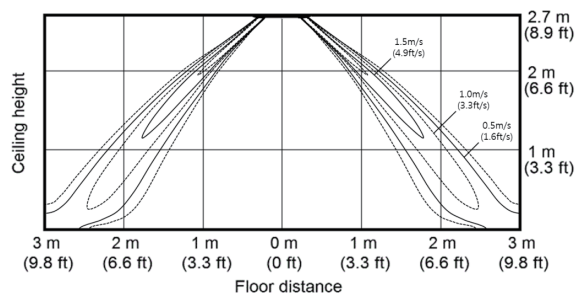
# Temperature and air flow distribution

## V22D Cassette

### V22D018S6-5P

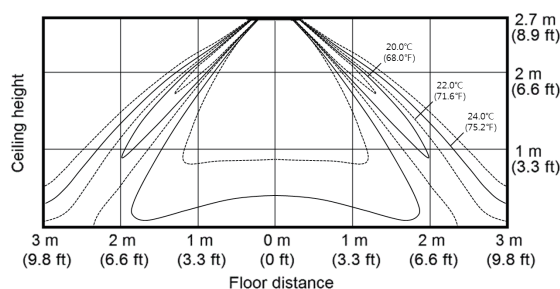
- Cooling Air Velocity distribution

Discharge angle : 41°



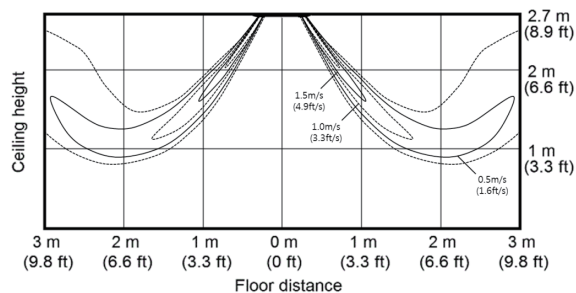
- Cooling Temperature distribution

Discharge angle : 41°



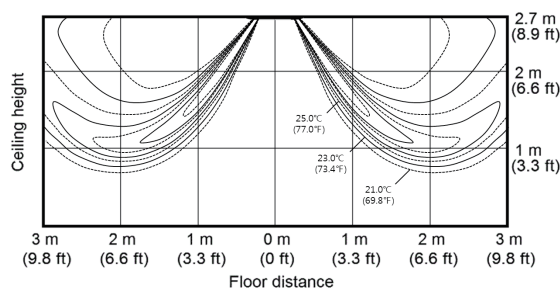
- Heating Air Velocity distribution

Discharge angle : 56°



- Heating Temperature distribution

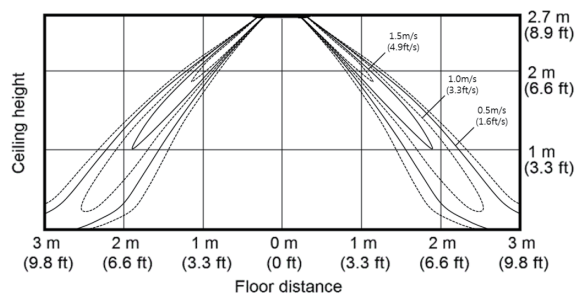
Discharge angle : 56°



### V22D020S6-5P

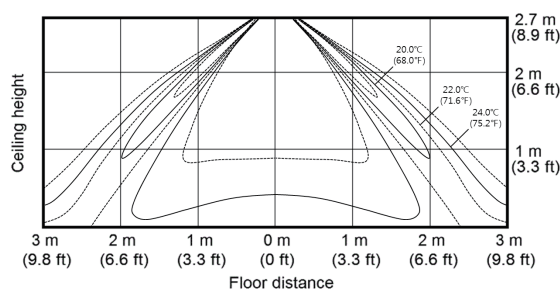
- Cooling Air Velocity distribution

Discharge angle : 41°



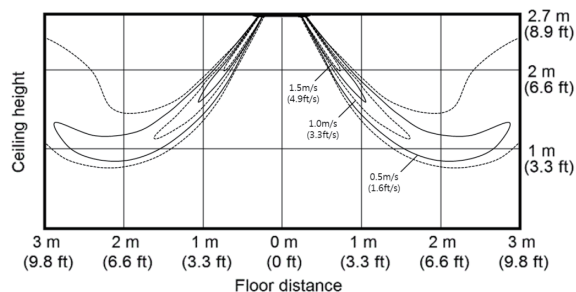
- Cooling Temperature distribution

Discharge angle : 41°



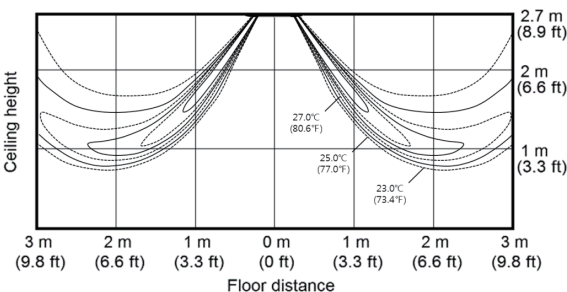
- Heating Air Velocity distribution

Discharge angle : 56°



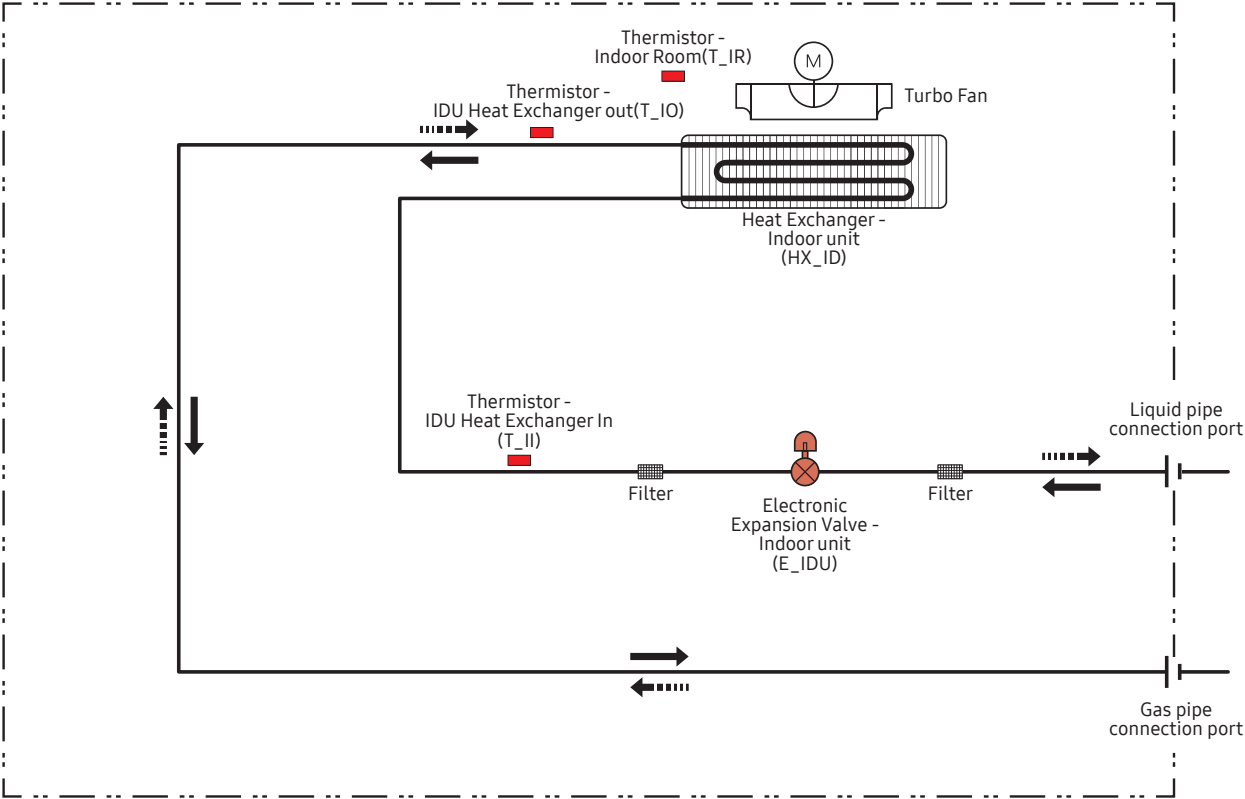
- Heating Temperature distribution

Discharge angle : 56°



# Piping Diagram

## V22D Cassette

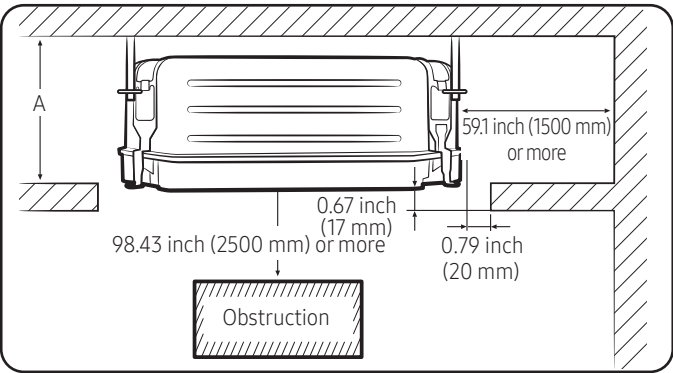


| Refrigerant flow |         |
|------------------|---------|
| Cooling          | Heating |
|                  |         |

# Installation Clearances

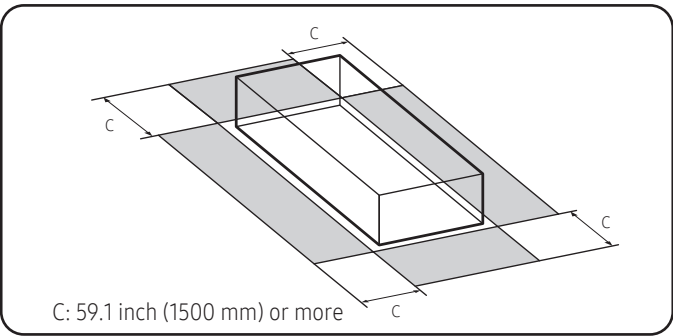
## V22D Cassette

### Spacing Requirements



Unit: inch(mm)

| Model | V22D005S6-5P, V22D007S6-5P, V22D009S6-5P, V22D012S6-5P, V22D018S6-5P, V22D020S6-5P |
|-------|------------------------------------------------------------------------------------|
| A     | 11.69 (297)                                                                        |



### ⚠ CAUTION

- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operationfssss, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage.
- You must hold the hanger plate on the corner and carry the indoor unit.



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