

**Briese Air**<sup>®</sup>  
Powered by Shitsudo

DX AIR HANDLING UNIT



**Genius** of the air



**BSAX/BSAV**

## Product Introduction

Briese Air's Direct Expansion Modular Air Handling Units integrate the best features of modular air handlers and refrigeration systems, specifically designed to achieve optimal temperature, humidity, cleanliness, and comfort in air-conditioned zones. They can widely cover the constant temperature and humidity or purification needs of partial fresh air, full return air, and full fresh air scenarios. Additionally, they are suitable for custom applications such as deep dehumidification with multiple cooling sources, heat recovery-based constant temperature and humidity, and rapid temperature adjustments.



**Briese Air Direct Expansion Indoor Unit**

### BAC BBC Series

The indoor unit is a modular air handling unit, capable of integrating various functional sections such as direct expansion, heating, humidification, and filtration. It offers two panel thickness options, 25mm and 50mm, to meet different requirements for airflow, static pressure, and the temperature and humidity conditions of the equipment room.

## Briese Air Direct Expansion Outdoor Unit Series

### 01 Fixed Frequency Series

The fixed capacity operation mode offers adjustment settings and is available in both heat pump and cooling-only configurations. It enables functions such as temperature and humidity control for recirculated air, purification of recirculated air, and purification of fresh air.



BSAX0030



BSAX0080/0100/0125/  
0150/0200/0250



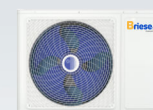
BSAX0600



BSAX1100/1200

### 02 Variable Frequency Series

It features fresh air temperature and humidity control, variable air volume adjustment, year-round cooling, and low dew point dehumidification.



BSAV0060



BSAV0080/0100/0120



BSAV0160



BSAV0200/0240/0260



BSAV0280/0300/0320

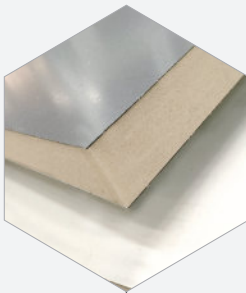


# DX Air Handling Unit

Briese series modular air handling units feature a patented enclosure design and outstanding detailed engineering. They excel in mechanical strength, air tightness, thermal insulation performance, and prevention of cold bridges, setting a benchmark in the industry. (Patent No. ZL 2014 2 0122442.9)  
The enclosure performance complies with EN1886 standards and has obtained EUROVENT certification.

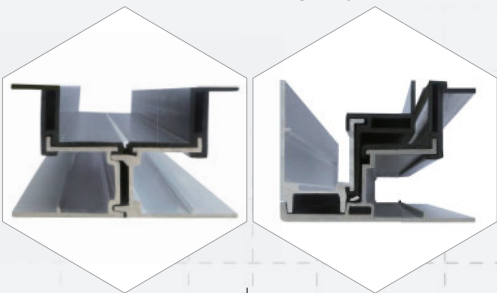
## Sandwich Structure Insulation Panels

High-Density 50kg/m<sup>3</sup> Polyurethane  
Lower Thermal Loss, High Strength with no deformation



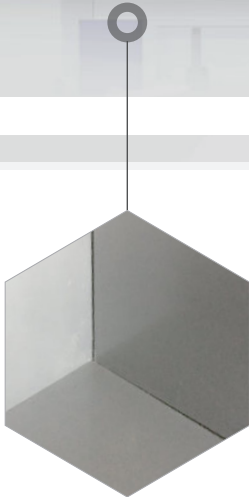
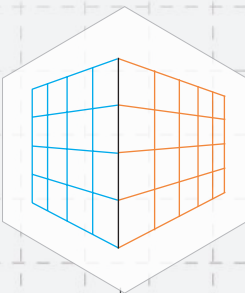
## Self-Developed Enclosure Structure

Interlocking Male-Female Module  
Labyrinth Seal, Aluminum-Plastic  
Composite Profiles with Co-Extruded  
Soft and Hard Sealing Strips

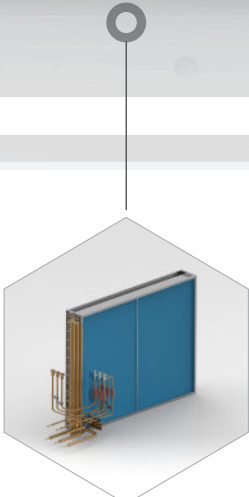


## Micro-Modular Design

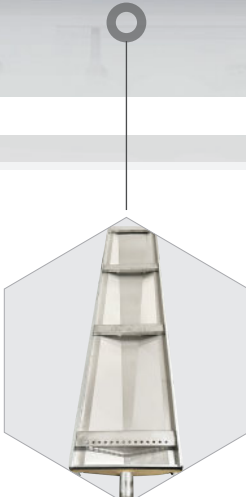
Achieves Full Coil Coverage Within  
Unit Cross-Section, Reduced  
Internal Resistance for Enhanced  
Energy Efficiency



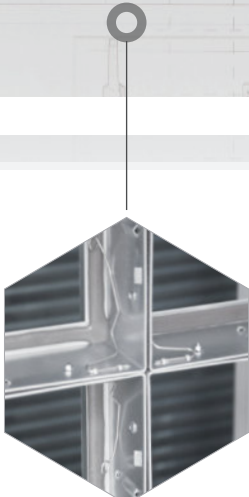
**Smooth Interior, Clean and Hygienic**  
Seamless, Smooth Interior  
Panel Joints  
No Dust Deposition in Corners



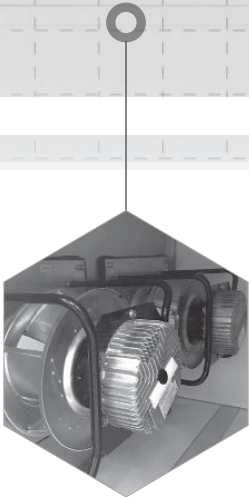
**High-efficiency Heat Exchanger**  
Professional Selection Software,  
On-Demand Configuration, Optimal  
Flow Path Design, Ensuring Peak  
Performance



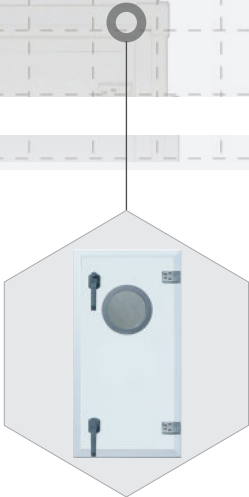
**New Dual V-shaped Water Pan**  
Rapid Drainage, No Water  
Accumulation  
Bacteria-Free



**High-Integrity Enclosed Filter Mounting Frame**  
Airtightness Achieves Highest  
EN1886 Class  
Delivers Filtered and  
Hygienic Air



**High-Efficiency Energy-Saving Fan**  
High-Efficiency EC Fan, High  
Efficiency, More Energy Efficient,  
Dust-Free Without Snail Shell Fan  
and Belt



**Aerospace Technology Maintenance Door**  
Full-Size Door for Convenient Large-Space  
Maintenance  
Seamless Integral Foam Door Leaf for  
Excellent Airtightness  
Handle Pressure Relief Design Ensures  
Operational Safety

## The Powerful External Team Lineup



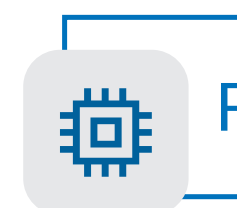
### Energy Efficient and High Performance

- Multi-System/Variable Frequency Design Concept to Reduce Long-Term Partial Load Energy Consumption
- Variable Operating Condition Patented Automatic Control to Avoid Excessive Dehumidification "Cooling and Heating Offset"
- Energy-Saving System Control Design, Achieving Over 20% Energy Savings in Air Conditioning Systems



### Temperature and Humidity Control

- All-New Airflow or Low-Load Harsh Condition Interference-Resistant Precise Output
- Effectively Achieving Temperature and Humidity Accuracy of  $\pm 1^\circ\text{C}$ ,  $\pm 5\%$
- Stable Cooling Source for Low Ambient Temperature Operation, Capable of  $-10^\circ\text{C}$  Cooling for Industrial Processes



### Robust Performance

- Micro-HEX Microchannel All-Aluminum Integrated Driving Heat Dissipation Enhancement Technology\*
- Wide Ambient Temperature Variable Frequency Operation: Cooling from  $-10^\circ\text{C}$  to  $56^\circ\text{C}$ ; Heating from  $-20^\circ\text{C}$  to  $25^\circ\text{C}$
- Installation with Large Capacity and Long Piping up to 100m

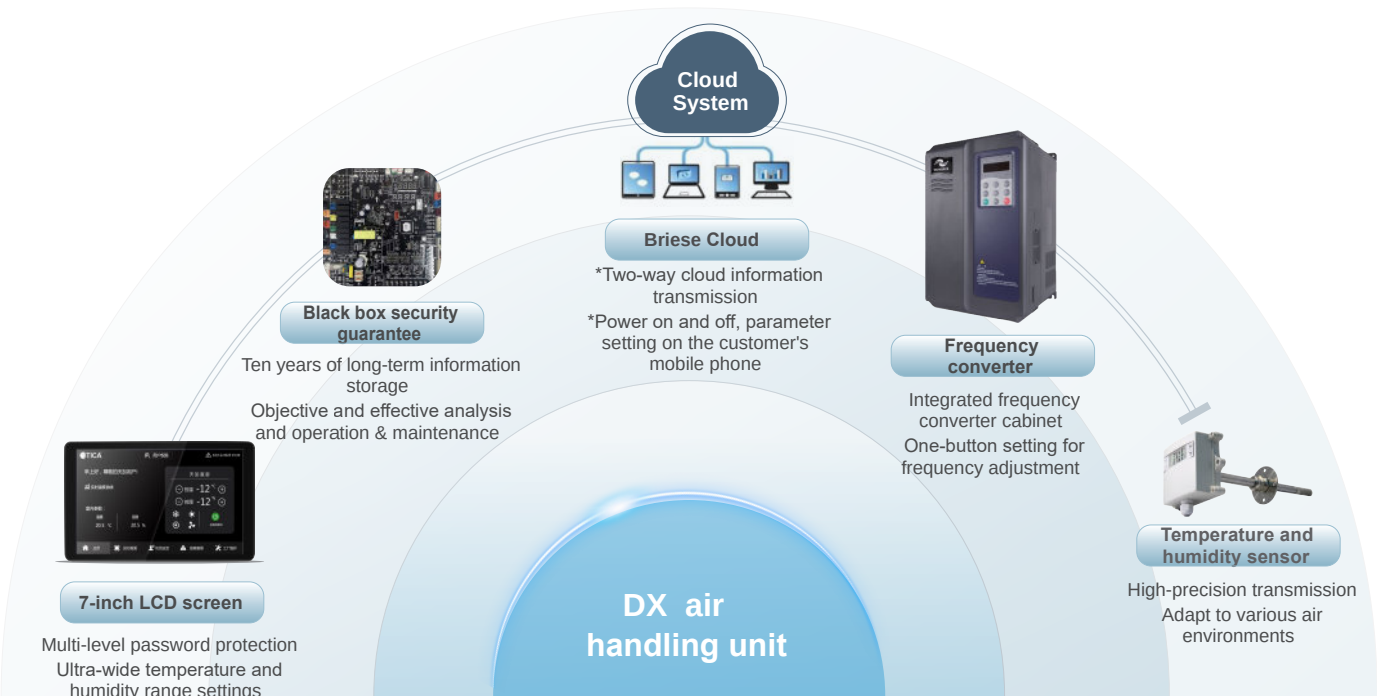


### Adaptive Defrost

- Bottom single-phase valve for frost prevention heating without frosting, and uniform and rapid defrosting on top.
- Patented adaptive defrost control, multi-module rotation for balanced defrosting.
- Strong heating effect, defrosting time 3-5 minutes

\* Some functions are optional. Consult your local Briese Air branches or offices for detailed configuration.

# Intelligent Self-control System



## Multifunctional application integration platform

Prefabricated mainstream industry scene control functions, no need for secondary development



Multiple interlocking



Fan variable frequency adjustment



Hot water/steam reheating



Dual cooling self-control



Ozone, ultraviolet disinfection



Electronic purification

## Industrial-grade air process control



Automatic adjustment in transition season, no "cold and hot offset" self-developed Patent control



Expert algorithm based on fuzzy control

## Adaptive safe operation under all working conditions



Refrigeration ambient temperature: -10~48°C, heating ambient temperature: -15~25°C  
\*Variable frequency circulating air refrigeration ambient temperature: -10~56°C, heating ambient temperature: -20~25°C



Multiple safety protection functions  
2000 hours long-term operation test escort

## High-definition system integrated integrated screen



Large-size LCD touch screen



Modbus remote communication



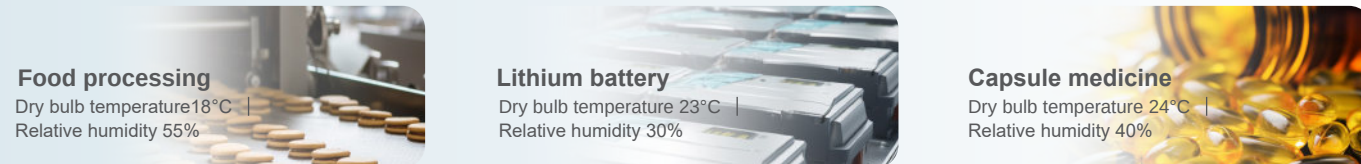
Multi-mode operation settings



Local/remote multi-screen application



# 1 Low dew point dehumidification dedicated air conditioning system



## Scene appeal



**Low temperature/low humidity**  
Dew point temperature as low as 4°C



**Long-term energy consumption control**  
Stable and reliable, high efficiency and energy saving



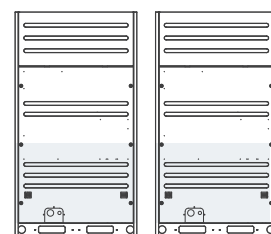
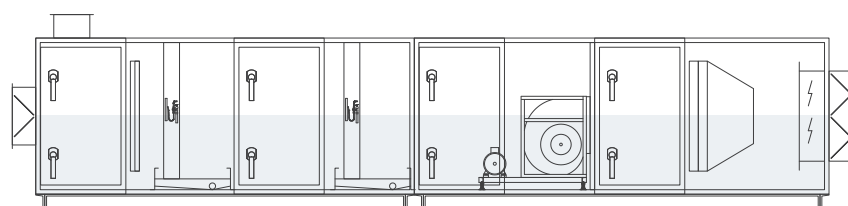
**Fresh air demand**  
Adaptive capacity adjustment

- **Stable cooling to above 4°C to ensure low temperature/low humidity production environment**  
The variable frequency unit's patented comprehensive trend judgment control technology for ambient temperature and humidity, and functional section temperature and humidity ensures no icing during low temperature operation
- **Replaces high energy consumption rotary dehumidification applications, saving up to 50% energy**  
Refrigerant dehumidification directly, no need to rely on rotary regeneration air heating

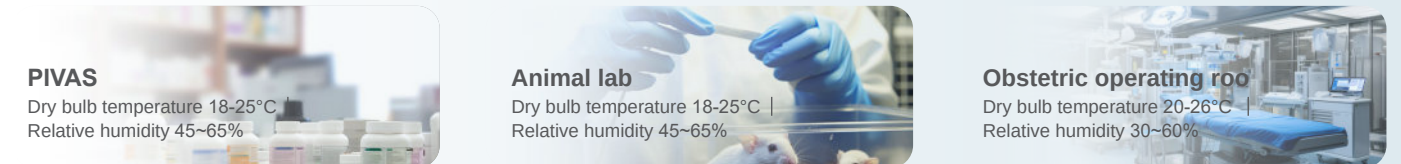
- **10%~100% fresh air ratio, compatible with one set of AHU**  
In case of large enthalpy difference, two-stage direct expansion section relay dehumidification is used, with automatic control (dual cold source front and rear stage can also be used)

A typical sample of Briese Air low-dew-point dehumidification

## Typical AHU functional segment layout



# All fresh air constant temperature and humidity dedicated air handling unit 2



## Scene appeal



**All fresh air operation**  
Adaptive capacity adjustment



**Temperature and humidity adjustment**  
Precise control of temperature and humidity



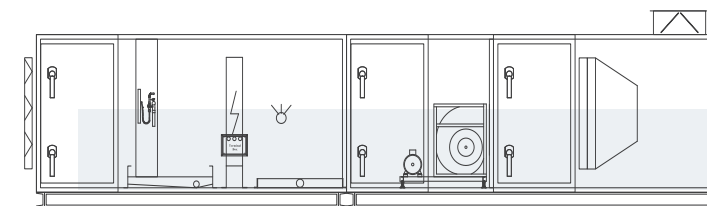
**Energy-efficient**  
On-demand output to avoid excessive dehumidification

- **Effectively remove high humidity from the outside and strictly control temperature and humidity**  
Fully variable frequency new wind constant temperature and humidity air conditioning system, cooling and heating 10%~100% infinite adjustment
- **Capacity output is accurate, eliminating the waste of cold and hot offset**  
Patented dew point temperature + humidity judgment constant temperature and humidity control algorithm, Refrigerant temperature and flow high-precision control measures

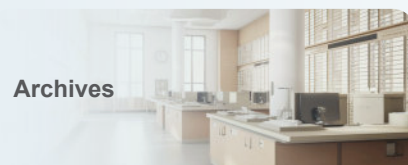
- **Intelligent control system**  
Self-developed controller, patented constant temperature and humidity control, integrated multi-faceted control and multiple interlocking, multiple protection functions to ensure stable operation

A typical sample of Briese Air all fresh air constant temperature and humidity

## Typical AHU functional segment layout



## 3 Energy-saving heat recovery dedicated air conditioning system



### Scene appeal



#### High energy-saving requirements

Dehumidification and reheating "cold and hot offset" consumes a lot of energy



#### Control temperature and humidity simultaneously

Avoid excessive dehumidification



#### Stable and reliable

Guarantee normal process requirements

#### Energy saving up to 45%

Innovative condensing heat recovery technology provides free reheating and saves operating energy by more than 45%.

#### ±1°C, ±5% constant temperature and humidity

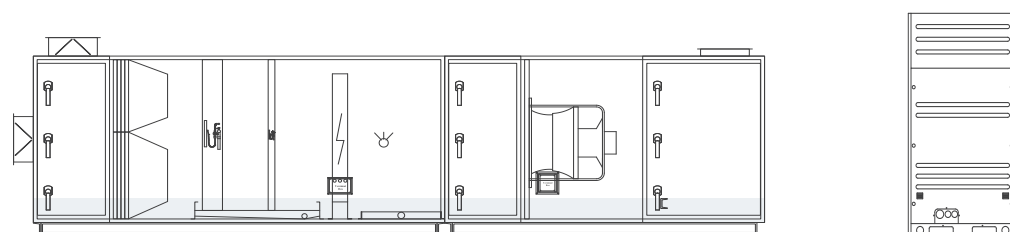
Precise control of dew point temperature and reheat temperature

#### Strong efficiency in extreme weather

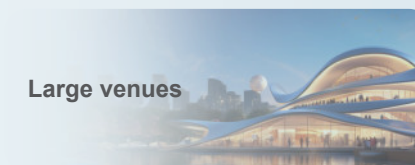
Equipped with jet enthalpy increase compressor, the efficiency in extreme weather is more than 10% higher than that of ordinary compressors

A typical sample of Briese Air heat recovery DX air conditioning unit

### Typical AHU functional segment layout



## Purification dedicated air conditioning system 4



### Scene appeal



#### Personnel health needs

Remove viruses and bacteria to avoid cross contamination



#### Diversified air supply needs

Duct air supply, grille air supply, Jet high-altitude air supply, etc.



#### Flexible cold and heat source layout

Adapt to different pipeline lengths and height differences

#### Fresh air is introduced to remove bacteria and dust

Set up filters and sterilization functions to ensure ventilation and personnel health

#### Adjustable static pressure outside the machine

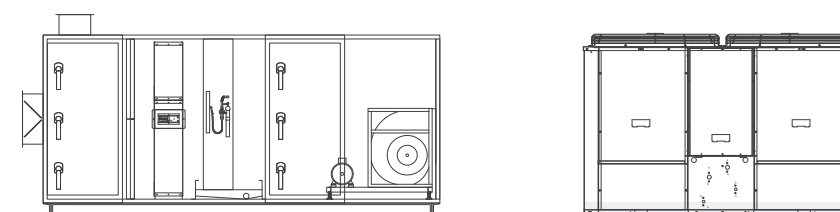
Adjustable static pressure outside the machine to achieve free air supply distance, suitable for commercial building decoration, factory post air supply and other applications

#### Built-in cold/heat source

Centralized cold source has cumbersome pipeline laying and distribution waste, suitable for decentralized installation or regional transformation

Typical model of Briese Air air-conditioning purification

### Typical AHU functional segment layout



# Profession

## DESIGN AND SELECTION

Briese Air direct expansion air handling units can provide customized product services that fit the user's business format for various extreme industrial environments and comfortable living environments.

The full range of selection is carried out through self-developed software, which efficiently and accurately matches the unit capacity and outputs professional reports.

### Direct expansion indoor unit naming

|      |                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------|
| BAC  | Indoor unit model: BAC-25mm BBC-50mm                                                                                   |
| 12   | Height modulus: 51mm per module, 12 represents an internal height of 612mm                                             |
| 13   | Width modulus: 51mm per module, 13 represents an internal width of 663mm                                               |
| D    | Design serial number: fixed frequency F..., variable frequency D...                                                    |
| H    | Structural form: H-horizontal, V-vertical, C-ceiling                                                                   |
| V    | Feature code: F-fixed frequency, V-variable frequency, C-variable frequency condensing heat recovery                   |
| R    | Unit form: R-heat pump, C-single cooling                                                                               |
| F    | Working condition type: R-return air, F-fresh air                                                                      |
| H    | Use code: H-temperature and humidity type, X-single temperature control, S-deep dehumidification, U-open energy demand |
| S    | control method: S-single chip, T-third-party PLC, N-no automatic control                                               |
| 0100 | Total number of matching outdoor units: 0100-10HP                                                                      |

### Direct expansion indoor unit naming

|      |                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|
| BSAV | Outdoor unit model: BSAX-air-cooled fixed-frequency outdoor unit<br>BSAV-air-cooled variable-frequency outdoor unit                       |
| 0100 | Outdoor unit capacity: 0100-10HP                                                                                                          |
| D    | Design serial number: fixed-frequency D..., variable-frequency D..., variable-frequency condensing heat recovery C                        |
| R    | Unit type: R-cooling and heating type, cooling-only type omitted                                                                          |
| C    | Sales area: C-domestic, E-export                                                                                                          |
| X    | Feature code: fixed-frequency unit omitted, X-standard variable-frequency direct expansion, R-variable-frequency condensing heat recovery |

## 01 PRODUCT SERIES

Fixed frequency direct expansion series

### Energy saving for users

|                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| Energy saving and carbon reduction in heat pump operation                             | Multi-level energy adjustment and energy-saving operation                             | Multiple outdoor units take turns to defrost in winter                                |

### Professional extension

|                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| 0°C stable ambient temperature for year-round refrigeration                           | Reliable operation under variable working conditions                                  | Multiple systems for a good standby performance                                       |

### Improve efficiency

|                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| Built-in refrigerant, no need to fill                                                 | Integrated control, no need for secondary development                                 | Automatic compressor balancing, long load life                                        |



## Parameters

Technical Specifications of  
Fixed Frequency DX Air Handling Unit

Parameters of fixed frequency DX units (return air purification & return air constant temperature and humidity)

| Model                                        | ODU model                                             | BSAX    | 0030DRC                                                                | 0030DRC*2 | 0080DRC | 0100DRC                     | 0125DRC | 0150DRC | 0200DRC           | 0250DRC |
|----------------------------------------------|-------------------------------------------------------|---------|------------------------------------------------------------------------|-----------|---------|-----------------------------|---------|---------|-------------------|---------|
|                                              | IDU model                                             | BAC/BBC | 012014                                                                 | 012016    | 014022  | 014024                      | 020019  | 020025  | 022028            | 023034  |
|                                              | Capacity                                              | HP      | 3                                                                      | 6         | 8       | 10                          | 12.5    | 15      | 20                | 25      |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW      | 8.00                                                                   | 16.10     | 24.50   | 27.00                       | 32.10   | 43.90   | 55.60             | 72.00   |
|                                              | Rated heating capacity                                | kW      | 8.00                                                                   | 16.00     | 25.00   | 26.50                       | 34.10   | 44.00   | 60.00             | 68.00   |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW      | 2.40                                                                   | 4.80      | 6.87    | 7.40                        | 10.00   | 13.00   | 16.40             | 21.00   |
|                                              | Rated heating power <sup>1</sup>                      | kW      | 2.20                                                                   | 4.40      | 6.75    | 7.30                        | 9.96    | 13.00   | 16.13             | 19.00   |
|                                              | Maximum operating power                               | kW      | 3.94                                                                   | 7.88      | 9.60    | 12.20                       | 13.40   | 16.80   | 22.70             | 28.00   |
|                                              | Maximum operating current                             | A       | 17.90                                                                  | 35.80     | 18.10   | 23.00                       | 23.20   | 31.50   | 43.30             | 52.50   |
|                                              | ODU power supply                                      | -       | 220V 1N~ 50Hz                                                          |           |         | 380V 3N~ 50Hz               |         |         |                   |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h    | 1400                                                                   | 2400      | 5000    | 5500                        | 6500    | 9000    | 11500             | 15000   |
|                                              | Maximum fresh air ratio                               | %       | Fresh air ratio ≤30%                                                   |           |         |                             |         |         |                   |         |
|                                              | Cooling coil section length for reference             | mm      | 500                                                                    | 500       | 600     | 600                         | 600     | 600     | 600               | 600     |
|                                              | IDU power supply                                      | -       | 380V 3N~ 50Hz                                                          |           |         |                             |         |         |                   |         |
|                                              | Condensate water pan pipe diameter                    | -       | DN32                                                                   |           |         |                             |         |         |                   |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C      | Circulated air 0 to 46°C                                               |           |         |                             |         |         |                   |         |
|                                              | Ambient temperature for heating                       | °C      | Circulated air -10 to 25°C                                             |           |         | Circulated air -15 to 25°C  |         |         |                   |         |
| Operation accuracy                           | Temperature accuracy                                  | °C      | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |           |         |                             |         |         |                   |         |
|                                              | Humidity accuracy                                     | -       | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |           |         |                             |         |         |                   |         |
| Compressor                                   | Type                                                  | -       | Rotor compressor                                                       |           |         |                             |         |         | Scroll compressor |         |
|                                              | Quantity                                              | -       | 1                                                                      | 1*2       | 2       | 2                           | 2       | 2       | 2                 | 2       |
| ODU Fan motor                                | Number of fans                                        | -       | 1                                                                      | 1*2       | 2       | 2                           | 2       | 2       | 2                 | 2       |
|                                              | Air discharge mode                                    | -       | Axial flow side air outlet                                             |           |         | Axial flow upper air outlet |         |         |                   |         |
|                                              | Maximum air flow                                      | m³/h    | 4000                                                                   | 4000*2    | 5500*2  | 5500*2                      | 7520*2  | 7520*2  | 12900*2           | 12900*2 |
| Single ODU Dimensions and weight             | Width                                                 | mm      | 865                                                                    | 865       | 1403    | 1403                        | 1403    | 1403    | 1808              | 1808    |
|                                              | Depth                                                 | mm      | 350                                                                    | 350       | 821     | 821                         | 821     | 821     | 1090              | 1090    |
|                                              | Height                                                | mm      | 700                                                                    | 700       | 1200    | 1200                        | 1200    | 1200    | 1214              | 1214    |
|                                              | Net Weight                                            | kg      | 56                                                                     | 56        | 200     | 200                         | 240     | 240     | 400               | 400     |
| Refrigerant                                  | Type                                                  | -       | R410A                                                                  |           |         |                             |         |         |                   |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg      | 2.1                                                                    | 2.1*2     | 3.2*2   | 3.4*2                       | 3.6*2   | 4.35*2  | 5.8*2             | 7.2*2   |
| Connecting pipe                              | Liquid pipe * number                                  | mm      | 6.35                                                                   | 6.35*2    | 9.52*2  | 9.52*2                      | 9.52*2  | 12.7*2  | 12.7*2            | 12.7*2  |
|                                              | Steam pipe * number                                   | mm      | 15.88                                                                  | 15.88*2   | 15.88*2 | 15.88*2                     | 15.88*2 | 19.05*2 | 22.23*2           | 25.4*2  |
|                                              | Limit length/height difference (m) of connecting pipe |         | 15/10                                                                  | 15/10     | 35/20   | 35/20                       | 35/20   | 35/20   | 40/20             | 40/20   |
|                                              | ODU connection mode <sup>3</sup>                      | -       | Pipe socket                                                            |           |         |                             |         |         | Welding           |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/24°C, indoor dry-bulb temperature is 27/19°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C, indoor dry-bulb temperature is 20/15°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length,  
2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual",  
3. The connecting pipe diameter of the internal and external units is based on the external unit diameter, and the internal unit is reduced in diameter,  
4. For more air volume selection, please consult Briese Air local branch or office.

Parameters of fixed frequency DX units (return air purification & return air constant temperature and humidity)

| Model                                        | ODU model                                             | BSAX    | 0150DRC*2                                                              | 0200DRC*2         | 0250DRC*2 | 0200DRC*3 | 0250DRC*3 | 1100DRC                    | 1200DRC |
|----------------------------------------------|-------------------------------------------------------|---------|------------------------------------------------------------------------|-------------------|-----------|-----------|-----------|----------------------------|---------|
|                                              | IDU model                                             | BAC/BBC | 026035                                                                 | 030039            | 035044    | 035051    | 042054    | 047058                     | 047063  |
|                                              | Capacity                                              | HP      | 30                                                                     | 40                | 50        | 60        | 75        | 110                        | 120     |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW      | 87.80                                                                  | 111.20            | 144.00    | 166.80    | 216.00    | 270.00                     | 310.00  |
|                                              | Rated heating capacity                                | kW      | 88.00                                                                  | 120.00            | 136.00    | 180.00    | 204.00    | 270.00                     | 310.00  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW      | 26.00                                                                  | 32.80             | 42.00     | 49.20     | 63.00     | 84.00                      | 92.40   |
|                                              | Rated heating power <sup>1</sup>                      | kW      | 26.00                                                                  | 32.30             | 38.00     | 48.40     | 57.00     | 89.30                      | 88.30   |
|                                              | Maximum operating power                               | kW      | 33.60                                                                  | 45.40             | 56.00     | 68.10     | 84.00     | 117.60                     | 129.36  |
|                                              | Maximum operating current                             | A       | 63.00                                                                  | 86.60             | 105.00    | 129.90    | 157.50    | 221.89                     | 244.08  |
|                                              | ODU power supply                                      | -       | 380V 3N~ 50Hz                                                          |                   |           |           |           |                            |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h    | 18000                                                                  | 23000             | 30000     | 34500     | 45000     | 55000                      | 63000   |
|                                              | Maximum fresh air ratio                               | %       | Fresh air ratio ≤30%                                                   |                   |           |           |           |                            |         |
|                                              | Cooling coil section length for reference             | mm      | 600                                                                    | 600               | 600       | 800       | 800       | 900                        | 900     |
|                                              | IDU power supply                                      | -       | 380V 3N~ 50Hz                                                          |                   |           |           |           |                            |         |
|                                              | Condensate water pan pipe diameter                    | -       | DN32                                                                   |                   |           |           |           |                            |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C      | Circulated air 0 to 46°C                                               |                   |           |           |           | Circulated air -10 to 46°C |         |
|                                              | Ambient temperature for heating                       | °C      | Circulated air -15 to 25°C                                             |                   |           |           |           | Circulated air -10 to 30°C |         |
| Operation accuracy                           | Temperature accuracy                                  | °C      | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |                   |           |           |           |                            |         |
|                                              | Humidity accuracy                                     | -       | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |                   |           |           |           |                            |         |
| Compressor                                   | Type                                                  | -       | Rotor compressor                                                       | Scroll compressor |           |           |           |                            |         |
|                                              | Quantity                                              | -       | 2*2                                                                    | 2*2               | 2*2       | 2*3       | 2*3       | 4                          | 4       |
| ODU Fan motor                                | Number of fans                                        | -       | 2*2                                                                    | 2*2               | 2*2       | 2*3       | 2*3       | 4                          | 4       |
|                                              | Air discharge mode                                    | -       | Axial flow upper air outlet                                            |                   |           |           |           |                            |         |
|                                              | Maximum air flow                                      | m³/h    | 7520*4                                                                 | 12900*4           | 12900*4   | 12900*6   | 12900*6   | 28000*4                    | 28000*4 |
| Single ODU Dimensions and weight             | Width                                                 | mm      | 1403                                                                   | 1808              | 1808      | 1808      | 1808      | 2200                       | 2200    |
|                                              | Depth                                                 | mm      | 821                                                                    | 1090              | 1090      | 1090      | 1090      | 2400                       | 2400    |
|                                              | Height                                                | mm      | 1200                                                                   | 1214              | 1214      | 1214      | 1214      | 2235                       | 2235    |
|                                              | Net Weight                                            | kg      | 240                                                                    | 400               | 400       | 400       | 400       | 1570                       | 1570    |
| Refrigerant                                  | Type                                                  | -       | R410A                                                                  |                   |           |           |           |                            |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg      | 4.35*4                                                                 | 5.8*4             | 7.2*4     | 5.8*6     | 7.2*6     | 13.5*4                     | 13.5*4  |
| Connecting pipe                              | Liquid pipe * number                                  | mm      | 12.7*4                                                                 | 12.7*4            | 12.7*4    | 12.7*6    | 12.7*6    | 19.05*4                    | 19.05*4 |
|                                              | Steam pipe * number                                   | mm      | 19.05*4                                                                | 22.23*4           | 25.4*4    | 22.23*6   | 25.4*6    | 34.92*4                    | 34.92*4 |
|                                              | Limit length/height difference (m) of connecting pipe |         | 35/20                                                                  | 40/20             | 40/20     | 40/20     | 40/20     | 40/20                      | 40/20   |
|                                              | ODU connection mode <sup>3</sup>                      | -       | Pipe socket                                                            | Welding           |           |           |           |                            |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/24°C, indoor dry-bulb temperature is 27/19°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C, indoor dry-bulb temperature is 20/15°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length,  
2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual",  
3. The connecting pipe diameter of the internal and external units is based on the external unit diameter, and the internal unit is reduced in diameter,  
4. For more air volume selection, please consult Brise Air local branch or office.

Parameters of fixed frequency DX units (fresh air purification)

| Model                                        | ODU model                                             | BSAX    | 0080DRC                     | 0100DRC | 0125DRC | 0150DRC | 0200DRC           | 0250DRC |
|----------------------------------------------|-------------------------------------------------------|---------|-----------------------------|---------|---------|---------|-------------------|---------|
|                                              | IDU model                                             | BAC/BBC | 012013                      | 012013  | 012016  | 014017  | 014021            | 016024  |
|                                              | Capacity                                              | HP      | 8                           | 10      | 12.5    | 15      | 20                | 25      |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW      | 24.50                       | 27.00   | 32.00   | 41.00   | 55.00             | 72.00   |
|                                              | Rated heating capacity                                | kW      | 23.00                       | 26.50   | 34.10   | 41.50   | 55.00             | 68.00   |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW      | 6.87                        | 7.40    | 10.00   | 13.00   | 16.40             | 21.00   |
|                                              | Rated heating power <sup>1</sup>                      | kW      | 6.75                        | 7.30    | 9.96    | 13.00   | 16.13             | 19.00   |
|                                              | Maximum operating power                               | kW      | 9.60                        | 12.20   | 13.40   | 16.80   | 22.70             | 28.00   |
|                                              | Maximum operating current                             | A       | 18.10                       | 23.00   | 23.20   | 31.50   | 43.30             | 52.50   |
|                                              | ODU power supply                                      | -       | 380V 3N~ 50Hz               |         |         |         |                   |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h    | 1950                        | 2200    | 2450    | 3150    | 4200              | 5550    |
|                                              | Cooling coil section length for reference             | mm      | 600                         | 600     | 700     | 700     | 800               | 800     |
|                                              | IDU power supply                                      | -       | 380V 3N~ 50Hz               |         |         |         |                   |         |
|                                              | Condensate water pan pipe diameter                    | -       | DN32                        |         |         |         |                   |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C      | 16°C to 43°C                |         |         |         |                   |         |
|                                              | Ambient temperature for heating                       | °C      | -15 to 15°C <sup>5</sup>    |         |         |         |                   |         |
| Operation accuracy                           | Temperature accuracy                                  | °C      | Heat pump ±2°C              |         |         |         |                   |         |
|                                              | Humidity accuracy                                     | -       | Heat pump ±10%              |         |         |         |                   |         |
| Compressor                                   | Type                                                  | -       | Rotor compressor            |         |         |         | Scroll compressor |         |
|                                              | Quantity                                              | -       | 2                           | 2       | 2       | 2       | 2                 | 2       |
| ODU Fan motor                                | Number of fans                                        | -       | 2                           | 2       | 2       | 2       | 2                 | 2       |
|                                              | Air discharge mode                                    | -       | Axial flow upper air outlet |         |         |         |                   |         |
|                                              | Maximum air flow                                      | m³/h    | 5500*2                      | 5500*2  | 7520*2  | 7520*2  | 12900*2           | 12900*2 |
| Single ODU Dimensions and weight             | Width                                                 | mm      | 1403                        | 1403    | 1403    | 1403    | 1808              | 1808    |
|                                              | Depth                                                 | mm      | 821                         | 821     | 821     | 821     | 1090              | 1090    |
|                                              | Height                                                | mm      | 1200                        | 1200    | 1200    | 1200    | 1214              | 1214    |
|                                              | Net Weight                                            | kg      | 200                         | 200     | 240     | 240     | 400               | 400     |
| Refrigerant                                  | Type                                                  | -       | R410A                       |         |         |         |                   |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg      | 3.2*2                       | 3.4*2   | 3.6*2   | 4.35*2  | 5.8*2             | 7.2*2   |
| Connecting pipe                              | Liquid pipe * number                                  | mm      | 9.52*2                      | 9.52*2  | 9.52*2  | 12.7*2  | 12.7*2            | 12.7*2  |
|                                              | Steam pipe * number                                   | mm      | 15.88*2                     | 15.88*2 | 15.88*2 | 19.05*2 | 22.23*2           | 25.4*2  |
|                                              | Limit length/height difference (m) of connecting pipe |         | 35/20                       | 35/20   | 35/20   | 35/20   | 40/20             | 40/20   |
|                                              | ODU connection mode <sup>3</sup>                      | -       | Pipe socket                 |         |         |         | Welding           |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/28°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C;  
Performance test piping conditions are equivalent pipe length of 7.5m (horizontal),

2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual".

3. The connecting pipe diameter of the internal and external units is based on the external unit diameter, and the internal unit is reduced in diameter.

4. For more air volume selection, please consult Briese Air's local branch or office.

5. When the unit inlet air temperature is lower than 0°C, if the heat pump needs to be turned on, a preheating section needs to be configured to preheat to above 0°C.

Parameters of fixed frequency DX units (fresh air purification)

| Model                                        | ODU model                                             | BSAX    | 0150DRC*2                   | 0200DRC*2         | 0250DRC*2 | 0200DRC*3 | 0250DRC*3 | 0600DRC                  | 1100DRC | 1200DRC |
|----------------------------------------------|-------------------------------------------------------|---------|-----------------------------|-------------------|-----------|-----------|-----------|--------------------------|---------|---------|
|                                              | IDU model                                             | BAC/BBC | 020019                      | 020025            | 022030    | 023031    | 026037    | 023031                   | 032040  | 035044  |
|                                              | Capacity                                              | HP      | 30                          | 40                | 50        | 60        | 75        | 60                       | 110     | 120     |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW      | 82.00                       | 110.00            | 144.00    | 165.00    | 216.00    | 165.00                   | 290.00  | 332.00  |
|                                              | Rated heating capacity                                | kW      | 83.00                       | 110.00            | 136.00    | 165.00    | 204.00    | 150.00                   | 280.00  | 320.00  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW      | 26.00                       | 32.80             | 42.00     | 49.20     | 63.00     | 53.20                    | 89.30   | 98.30   |
|                                              | Rated heating power <sup>1</sup>                      | kW      | 26.00                       | 32.30             | 38.00     | 48.40     | 57.00     | 49.60                    | 80.30   | 88.30   |
|                                              | Maximum operating power                               | kW      | 33.60                       | 45.40             | 56.00     | 68.10     | 84.00     | 74.48                    | 112.42  | 123.62  |
|                                              | Maximum operating current                             | A       | 63.00                       | 86.60             | 105.00    | 129.90    | 157.50    | 140.53                   | 212.11  | 233.25  |
|                                              | ODU power supply                                      | -       | 380V 3N~ 50Hz               |                   |           |           |           |                          |         |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h    | 6300                        | 8400              | 11100     | 12600     | 16650     | 12600                    | 22000   | 25500   |
|                                              | Cooling coil section length for reference             | mm      | 800                         | 800               | 800       | 800       | 800       | 800                      | 800     | 800     |
|                                              | IDU power supply                                      | -       | 380V 3N~ 50Hz               |                   |           |           |           |                          |         |         |
|                                              | Condensate water pan pipe diameter                    | -       | DN32                        |                   |           |           |           |                          |         |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C      | 16 to 43°C                  |                   |           |           |           | 16 to 46°C               |         |         |
|                                              | Ambient temperature for heating                       | °C      | -15 to 15°C <sup>5</sup>    |                   |           |           |           | -10 to 21°C <sup>5</sup> |         |         |
| Operation accuracy                           | Temperature accuracy                                  | °C      | Heat pump ±2°C              |                   |           |           |           |                          |         |         |
|                                              | Humidity accuracy                                     | -       | Heat pump ±10%              |                   |           |           |           |                          |         |         |
| Compressor                                   | Type                                                  | -       | Rotor compressor            | Scroll compressor |           |           |           |                          |         |         |
|                                              | Quantity                                              | -       | 2*2                         | 2*2               | 2*2       | 2*3       | 2*3       | 2                        | 4       | 4       |
| ODU Fan motor                                | Number of fans                                        | -       | 2*2                         | 2*2               | 2*2       | 2*3       | 2*3       | 2                        | 4       | 4       |
|                                              | Air discharge mode                                    | -       | Axial flow upper air outlet |                   |           |           |           |                          |         |         |
|                                              | Maximum air flow                                      | m³/h    | 7520*4                      | 12900*4           | 12900*4   | 12900*6   | 12900*6   | 28000*2                  | 28000*4 | 28000*4 |
| Single ODU Dimensions and weight             | Width                                                 | mm      | 1403                        | 1808              | 1808      | 1808      | 1808      | 2200                     | 2200    | 2200    |
|                                              | Depth                                                 | mm      | 821                         | 1090              | 1090      | 1090      | 1090      | 1100                     | 2400    | 2400    |
|                                              | Height                                                | mm      | 1200                        | 1214              | 1214      | 1214      | 1214      | 2248                     | 2235    | 2235    |
|                                              | Net Weight                                            | kg      | 240                         | 400               | 400       | 400       | 400       | 760                      | 1570    | 1570    |
| Refrigerant                                  | Type                                                  | -       | R410A                       |                   |           |           |           |                          |         |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg      | 4.35*4                      | 5.8*4             | 7.2*6     | 5.8*6     | 7.2*6     | 14*2                     | 13.5*4  | 13.5*4  |
| Connecting pipe                              | Liquid pipe * number                                  | mm      | 12.7*4                      | 12.7*4            | 12.7*4    | 12.7*6    | 12.7*6    | 19.05*2                  | 19.05*4 | 19.05*4 |
|                                              | Steam pipe * number                                   | mm      | 19.05*4                     | 22.23*4           | 25.4*4    | 22.23*6   | 25.4*6    | 34.92*2                  | 34.92*4 | 34.92*4 |
|                                              | Limit length/height difference (m) of connecting pipe |         | 35/20                       | 40/20             | 40/20     | 40/20     | 40/20     | 40/20                    | 40/20   | 40/20   |
|                                              | ODU connection mode <sup>3</sup>                      | -       | Pipe socket                 | Welding           |           |           |           |                          |         |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/28°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C;  
Performance test piping conditions are equivalent pipe length of 7.5m (horizontal),

2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual".

3. The connecting pipe diameter of the internal and external units is based on the external unit diameter, and the internal unit is reduced in diameter.

4. For more air volume selection, please consult Briese Air's local branch or office.

5. When the unit inlet air temperature is lower than 0°C, if the heat pump needs to be turned on, a preheating section needs to be configured to preheat to above 0°C.

Performance Deviation

Performance deviation of fixed frequency DX ODUs

The cooling and heating capacity of the direct expansion machine is closely related to the actual use of the system. When selecting the outdoor unit, be sure to refer to the following performance deviation table to check the performance.

For example: the actual working environment of the outdoor unit is 30°C, the air supply temperature of the indoor unit is 18°C, and the total length of the equivalent connecting pipe is 45m without height difference. Then the actual refrigeration performance correction coefficient of the outdoor unit =  $K1 \times K2 \times K3 = 1.08 \times 1.12 \times 0.92 = 1.11$

1. Indoor and outdoor working conditions deviate from the refrigeration correction factor K1 | Air-cooled box-type constant temperature and humidity unit / Air-cooled purification air-conditioning unit

| Correction factor<br>Outdoor dry bulb temperature (°C) \ Indoor wet bulb Temperature °C | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    |
|-----------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25                                                                                      | 0.825 | 0.833 | 0.955 | 1.041 | 1.095 | 1.121 | 1.137 | 1.153 | 1.165 | 1.179 | 1.181 |
| 30                                                                                      | 0.770 | 0.785 | 0.933 | 1.000 | 1.039 | 1.071 | 1.095 | 1.119 | 1.165 | 1.163 | 1.171 |
| 35                                                                                      | 0.693 | 0.723 | 0.85  | 0.925 | 0.961 | 1.000 | 1.039 | 1.076 | 1.086 | 1.092 | 1.102 |
| 40                                                                                      | 0.601 | 0.635 | 0.759 | 0.831 | 0.875 | 0.911 | 0.954 | 1.000 | 1.056 | 1.076 | 1.095 |
| 43                                                                                      | 0.599 | 0.583 | 0.698 | 0.782 | 0.823 | 0.887 | 0.916 | 0.971 | 0.988 | 1.028 | 1.034 |

2. Heating capacity deviation correction factor K1' in indoor and outdoor working conditions | Air-cooled cabinet type thermostatic and humidistatic AHUs/Air-cooled purifying type air conditioning unit

| Correction factor<br>Indoor dry bulb temperature (°C) \ Outdoor wet bulb Temperature °C | 14    | 12    | 10    | 8     | 6     | 4     | 2     | 0     | -2    | -4    | -6    | -8    | -11   | -13   | -15   |
|-----------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10                                                                                      | 1.241 | 1.192 | 1.157 | 1.119 | 1.081 | 1.052 | 0.984 | 0.921 | 0.862 | 0.807 | 0.757 | 0.712 | 0.671 | 0.634 | 0.602 |
| 15                                                                                      | 1.196 | 1.159 | 1.131 | 1.085 | 1.043 | 0.998 | 0.930 | 0.867 | 0.808 | 0.753 | 0.703 | 0.658 | 0.617 | 0.580 | 0.548 |
| 20                                                                                      | 1.172 | 1.136 | 1.095 | 1.053 | 1.000 | 0.964 | 0.897 | 0.834 | 0.775 | 0.720 | 0.669 | 0.622 | 0.579 | 0.540 | 0.505 |
| 25                                                                                      | 1.139 | 1.099 | 1.052 | 1.016 | 0.967 | 0.898 | 0.833 | 0.772 | 0.716 | 0.663 | 0.615 | 0.570 | 0.530 | 0.494 | 0.462 |

Note: 1. For the Fixed frequency unit, the main factors affecting the cooling operation are the indoor wet bulb temperature and outdoor dry bulb temperature while the main factors affecting the heating operation are the outdoor wet bulb temperature and indoor dry bulb temperature. Therefore, the indoor dry bulb temperature and other factors that have little impact are ignored in the above table.

3. IDU air flow deviation correction coefficient K2

| IDU rated air flow (%) | 80   | 90   | 100 | 110  | 120  |
|------------------------|------|------|-----|------|------|
| Correction factor      | 0.91 | 0.96 | 1   | 1.02 | 1.04 |

4. Connecting pipe length correction factor K3

| Correction factor K3                      |     | Equivalent total length of connecting pipe |      |      |      |      |      |      |      |      |      |
|-------------------------------------------|-----|--------------------------------------------|------|------|------|------|------|------|------|------|------|
|                                           |     | 5                                          | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   |
| Height difference between the ODU and IDU | 0m  | 1.00                                       | 0.99 | 0.97 | 0.95 | 0.93 | 0.91 | 0.89 | 0.87 | 0.85 | 0.83 |
|                                           | 5m  | 1.00                                       | 0.98 | 0.96 | 0.94 | 0.92 | 0.90 | 0.88 | 0.86 | 0.84 | 0.82 |
|                                           | 10m | -                                          | 0.97 | 0.95 | 0.93 | 0.91 | 0.89 | 0.87 | 0.85 | 0.83 | 0.81 |
|                                           | 15m | -                                          | -    | 0.94 | 0.92 | 0.90 | 0.88 | 0.86 | 0.84 | 0.82 | 0.80 |
|                                           | 20m | -                                          | -    | -    | 0.91 | 0.89 | 0.87 | 0.85 | 0.83 | 0.81 | 0.79 |
|                                           | 25m | -                                          | -    | -    | -    | 0.88 | 0.86 | 0.84 | 0.82 | 0.80 | 0.78 |

Notes: 1. The equivalent total length of the equivalent connecting pipe refers to the total length of the straight pipe of the pipeline (including horizontal and vertical connecting pipes), plus the sum of the equivalent lengths of elbows and oil storage bends;  
2. Note that the maximum equivalent connecting pipe length and maximum height difference of different models are different, see "Product Parameters" for details.

02PRODUCT  
SERIES  
Variable frequency DX series

Higher energy-saving experience



Full frequency conversion, first-level energy efficiency



Intelligent energy adjustment, on-demand output



Optional heat recovery, energy saving rate up to 70%

More professional scenarios



Full-condition operation



Low dew point air outlet, customized <5°C



Fresh air, constant temperature and humidity

Simpler operation and maintenance



Free installation of internal and external units



Multi-mode one-button switching



"Cloud" remote control



Parameters

Technical Specifications of

Variable Frequency DX Air Handling Unit

Parameters of variable frequency DX units (return air purification & return air constant temperature and humidity)

|                                              |                                                       |           |                                                                        |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
|----------------------------------------------|-------------------------------------------------------|-----------|------------------------------------------------------------------------|---------------|--------|-----------|---------------|---------|-----------------------------|----------------------------|-----------------------------|------------------|--------|--------|--------|
| Model                                        | ODU model                                             | BSAV-DRCX | 0060                                                                   | 0080          | 0100   | 0060*2    | 0120          | 0080*2  | 0160                        | 0100*2                     | 0200                        | 0120*2           | 0240   | 0260   | 0280   |
|                                              | IDU model                                             | BAC/BBC   | 012017                                                                 | 016020        | 016022 | 020021    | 020021        | 020026  | 020026                      | 022030                     | 022030                      | 023033           | 023033 | 026031 | 026033 |
|                                              | Capacity                                              | HP        | 6                                                                      | 8             | 10     | 12        | 12            | 16      | 16                          | 20                         | 20                          | 24               | 24     | 26     | 28     |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW        | 15.00                                                                  | 24.50         | 28.00  | 30.00     | 33.50         | 49.00   | 45.00                       | 56.00                      | 56.00                       | 67.00            | 67.50  | 73.50  | 75.50  |
|                                              | Rated heating capacity                                | kW        | 16.00                                                                  | 23.00         | 31.00  | 32.00     | 37.50         | 46.00   | 50.00                       | 62.00                      | 58.00                       | 75.00            | 75.50  | 81.50  | 85.50  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW        | 5.10                                                                   | 6.63          | 7.47   | 10.20     | 8.70          | 13.26   | 12.30                       | 14.94                      | 15.70                       | 17.40            | 18.20  | 19.40  | 20.35  |
|                                              | Rated heating power <sup>1</sup>                      | kW        | 4.90                                                                   | 6.88          | 7.30   | 9.80      | 8.40          | 13.76   | 12.00                       | 14.60                      | 14.40                       | 16.80            | 18.10  | 19.20  | 20.18  |
|                                              | Maximum operating power                               | kW        | 7.00                                                                   | 10.80         | 13.50  | 14.00     | 16.50         | 21.60   | 22.00                       | 27.00                      | 26.00                       | 33.00            | 30.00  | 31.80  | 32.00  |
|                                              | Maximum operating current                             | A         | 32.00                                                                  | 18.00         | 22.50  | 64.00     | 26.50         | 36.00   | 36.50                       | 45.00                      | 43.00                       | 53.00            | 50.00  | 52.50  | 56.55  |
|                                              | ODU power supply                                      | -         | 220V~50Hz                                                              | 380V 3N~ 50Hz |        | 220V~50Hz | 380V 3N~ 50Hz |         |                             |                            |                             |                  |        |        |        |
| IDU                                          | Nominal IDU air flow                                  | m³/h      | 3000                                                                   | 5200          | 6000   | 7200      | 7200          | 9600    | 9600                        | 12000                      | 12000                       | 14400            | 14400  | 15600  | 16800  |
|                                              | Maximum fresh air ratio                               | %         | Fresh air ratio ≤50%                                                   |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
|                                              | Cooling coil section length for reference             | mm        | 500                                                                    | 600           | 600    | 600       | 600           | 600     | 600                         | 600                        | 600                         | 600              | 600    | 600    | 600    |
|                                              | IDU power supply                                      | -         | 380V 3N~ 50Hz                                                          |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C        | Circulated air -10 to 56°C                                             |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
|                                              | Ambient temperature for heating                       | °C        | Circulated air -20 to 25°C                                             |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
| Operation accuracy                           | Temperature accuracy                                  | °C        | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
|                                              | Humidity accuracy                                     | -         | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
| Compressor                                   | Type                                                  | -         | Rotor compressor                                                       |               |        |           |               |         |                             | Scroll compressor          |                             | Rotor compressor |        |        |        |
|                                              | Quantity                                              | -         | 1                                                                      | 1             | 1      | 1*2       | 1             | 1*2     | 1                           | 1*2                        | 1                           | 1*2              | 2      | 2      | 2      |
| ODU Fan motor                                | Number of fans                                        | -         | 1                                                                      | 2             | 2      | 1*2       | 2             | 2*2     | 1                           | 2*2                        | 2                           | 2*2              | 2      | 2      | 2      |
|                                              | Air discharge mode                                    | -         | Axial flow side air outlet                                             |               |        |           |               |         | Axial flow upper air outlet | Axial flow side air outlet | Axial flow upper air outlet |                  |        |        |        |
|                                              | Maximum air flow                                      | m³/h      | 5000                                                                   | 8000          | 8000   | 5000*2    | 11300         | 8000*2  | 13980                       | 8000*2                     | 25800                       | 11300*2          | 25800  | 25800  | 27000  |
| Single ODU Dimensions and weight             | Width                                                 | mm        | 985                                                                    | 985           | 985    | 985       | 1100          | 985     | 1240                        | 985                        | 1500                        | 1100             | 1500   | 1500   | 1900   |
|                                              | Depth                                                 | mm        | 466                                                                    | 466           | 466    | 466       | 450           | 466     | 860                         | 466                        | 860                         | 450              | 860    | 860    | 860    |
|                                              | Height                                                | mm        | 840                                                                    | 1264          | 1264   | 840       | 1550          | 1264    | 1690                        | 1264                       | 1690                        | 1550             | 1690   | 1690   | 1690   |
|                                              | Net Weight                                            | kg        | 84                                                                     | 125           | 125    | 84        | 212           | 125     | 277                         | 125                        | 320                         | 212              | 325    | 330    | 420    |
| Refrigerant                                  | Type                                                  | -         | R410A                                                                  |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
|                                              | ODU charge amount <sup>2</sup>                        | kg        | 3.5                                                                    | 5.5           | 7.5    | 3.5*2     | 8             | 5.5*2   | 13.5                        | 7.5*2                      | 16.5                        | 8*2              | 16.5   | 16.5   | 17     |
| Connecting pipe                              | Liquid pipe * number                                  | mm        | 9.52                                                                   | 9.52          | 12.7   | 9.52*2    | 12.7          | 9.52*2  | 12.7                        | 12.7*2                     | 15.88                       | 12.7*2           | 19.05  | 19.05  | 19.05  |
|                                              | Steam pipe * number                                   | mm        | 15.88                                                                  | 19.05         | 22.23  | 15.88*2   | 25.4          | 19.05*2 | 28.58                       | 22.23*2                    | 28.58                       | 25.4*2           | 31.75  | 31.75  | 31.75  |
|                                              | Limit length/height difference (m) of connecting pipe |           | 30/20                                                                  | 50/20         | 50/20  | 30/20     | 100/50        | 50/20   | 100/50                      | 50/20                      | 100/50                      | 100/50           | 100/50 | 100/50 | 100/50 |
|                                              | ODU connection mode <sup>3</sup>                      | -         | Welding                                                                |               |        |           |               |         |                             |                            |                             |                  |        |        |        |
| Condensate water                             | Water pan pipe diameter                               | -         | DN32                                                                   |               |        |           |               |         |                             |                            |                             |                  |        |        |        |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/24°C, indoor dry-bulb temperature is 27/19°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C, indoor dry-bulb temperature is 20/15°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length;  
2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual";  
3. The connecting pipe diameter of the internal and external units is based on the external unit diameter. The internal unit can be reduced in diameter. When the pipe exceeds 50m, the pipe diameter shall be based on the operating instructions;  
4. For more air volume selection, please consult the local branch or office of Brise Air;  
5. If there is a need to change the maximum length of the pipe for 6HP-10HP, please communicate with the factory.

Parameters of variable frequency DX units (return air purification & return air constant temperature and humidity)

|                                              |                                                       |                   |                                                                        |         |        |                   |                  |         |         |         |         |         |         |         |
|----------------------------------------------|-------------------------------------------------------|-------------------|------------------------------------------------------------------------|---------|--------|-------------------|------------------|---------|---------|---------|---------|---------|---------|---------|
| Model                                        | ODU model                                             | BSAV-DRCX         | 0300                                                                   | 0160*2  | 0320   | 0200*2            | 0240*2           | 0260*2  | 0280*2  | 0300*2  | 0320*2  | 0240*3  | 0260*3  | 0280*3  |
|                                              | IDU model                                             | BAC/BBC           | 026035                                                                 | 026037  | 026037 | 030041            | 035042           | 037043  | 037046  | 038050  | 038050  | 042050  | 045051  | 047055  |
|                                              | Capacity                                              | HP                | 30                                                                     | 32      | 32     | 40                | 48               | 52      | 56      | 60      | 64      | 72      | 78      | 84      |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW                | 85.00                                                                  | 90.00   | 90.00  | 112.00            | 135.00           | 147.00  | 151.00  | 170.00  | 180.00  | 202.5   | 220.50  | 226.50  |
|                                              | Rated heating capacity                                | kW                | 95.00                                                                  | 100.00  | 100.00 | 116.00            | 151.00           | 163.00  | 171.00  | 190.00  | 200.00  | 226.5   | 244.50  | 256.50  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW                | 22.95                                                                  | 24.60   | 24.78  | 31.40             | 36.40            | 38.80   | 41.00   | 45.90   | 49.56   | 54.60   | 58.20   | 61.05   |
|                                              | Rated heating power <sup>1</sup>                      | kW                | 22.85                                                                  | 24.00   | 24.30  | 28.80             | 36.20            | 38.40   | 40.00   | 45.70   | 48.60   | 54.30   | 57.60   | 60.54   |
|                                              | Maximum operating power                               | kW                | 34.45                                                                  | 44.00   | 36.50  | 52.00             | 60.00            | 63.60   | 64.00   | 68.90   | 73.00   | 90.00   | 95.40   | 96.00   |
|                                              | Maximum operating current                             | A                 | 61.45                                                                  | 73.00   | 63.50  | 86.00             | 100.00           | 105.00  | 113.10  | 122.90  | 127.00  | 150.00  | 157.50  | 169.65  |
|                                              | ODU power supply                                      | -                 | 380V 3N~ 50Hz                                                          |         |        |                   |                  |         |         |         |         |         |         |         |
| IDU                                          | Nominal IDU air flow                                  | m <sup>3</sup> /h | 18000                                                                  | 19200   | 19200  | 24000             | 28800            | 31200   | 33600   | 36000   | 38400   | 43200   | 46800   | 50400   |
|                                              | Maximum fresh air ratio                               | %                 | Fresh air ratio ≤50%                                                   |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Cooling coil section length for reference             | mm                | 600                                                                    | 600     | 600    | 600               | 800              | 800     | 800     | 800     | 800     | 800     | 800     | 800     |
|                                              | IDU power supply                                      | -                 | 380V 3N~ 50Hz                                                          |         |        |                   |                  |         |         |         |         |         |         |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C                | Circulated air -10 to 56°C                                             |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Ambient temperature for heating                       | °C                | Circulated air -20 to 25°C                                             |         |        |                   |                  |         |         |         |         |         |         |         |
| Operation accuracy                           | Temperature accuracy                                  | °C                | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Humidity accuracy                                     | -                 | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |         |        |                   |                  |         |         |         |         |         |         |         |
| Compressor                                   | Type                                                  | -                 | Rotor compressor                                                       |         |        | Scroll compressor | Rotor compressor |         |         |         |         |         |         |         |
|                                              | Quantity                                              | -                 | 2                                                                      | 1*2     | 2      | 1*2               | 2*2              | 2*2     | 2*2     | 2*2     | 2*2     | 2*3     | 2*3     | 2*3     |
| ODU Fan motor                                | Number of fans                                        | -                 | 2                                                                      | 1*2     | 2      | 2*2               | 2*2              | 2*2     | 2*2     | 2*2     | 2*2     | 2*3     | 2*3     | 2*3     |
|                                              | Air discharge mode                                    | -                 | Axial flow upper air outlet                                            |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Maximum air flow                                      | m <sup>3</sup> /h | 27000                                                                  | 13980*2 | 27000  | 25800*2           | 25800*2          | 25800*2 | 25800*2 | 27000*2 | 27000*2 | 25800*3 | 25800*3 | 27000*3 |
| Single ODU Dimensions and weight             | Width                                                 | mm                | 1900                                                                   | 1240    | 1900   | 1500              | 1500             | 1500    | 1900    | 1900    | 1900    | 1500    | 1500    | 1900    |
|                                              | Depth                                                 | mm                | 860                                                                    | 860     | 860    | 860               | 860              | 860     | 860     | 860     | 860     | 860     | 860     | 860     |
|                                              | Height                                                | mm                | 1690                                                                   | 1690    | 1690   | 1690              | 1690             | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    |
|                                              | Net Weight                                            | kg                | 430                                                                    | 277     | 430    | 320               | 325              | 330     | 420     | 430     | 430     | 325     | 330     | 420     |
| Refrigerant                                  | Type                                                  | -                 | R410A                                                                  |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg                | 20                                                                     | 13.5*2  | 20     | 16.5*2            | 16.5*2           | 16.5*2  | 17*2    | 20*2    | 20*2    | 16.5*3  | 16.5*3  | 17*3    |
| Connecting pipe                              | Liquid pipe * number                                  | mm                | 19.05                                                                  | 12.7*2  | 19.05  | 15.88*2           | 19.05*2          | 19.05*2 | 19.05*2 | 19.05*2 | 19.05*2 | 19.05*3 | 19.05*3 | 19.05*3 |
|                                              | Steam pipe * number                                   | mm                | 31.75                                                                  | 28.58*2 | 31.75  | 28.58*2           | 31.75*2          | 31.75*2 | 31.75*2 | 31.75*2 | 31.75*2 | 31.75*3 | 31.75*3 | 31.75*3 |
|                                              | Limit length/height difference (m) of connecting pipe |                   | 100/50                                                                 |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | ODU connection mode <sup>3</sup>                      | -                 | Welding                                                                |         |        |                   |                  |         |         |         |         |         |         |         |
| Condensate water                             | Water pan pipe diameter                               | -                 | DN32                                                                   |         |        |                   |                  |         |         |         |         |         |         |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/24°C, indoor dry-bulb temperature is 27/19°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C, indoor dry-bulb temperature is 20/15°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length;  
2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual";  
3. The connecting pipe diameter of the internal and external units is based on the external unit diameter. The internal unit can be reduced in diameter. When the pipe exceeds 50m, the pipe diameter shall be based on the operating instructions;  
4. For more air volume selection, please consult the local branch or office of Briese Air;  
5. If there is a need to change the maximum length of the pipe for 6HP-10HP, please communicate with the factory.

Parameters of variable frequency DX units (return air purification & return air constant temperature and humidity)

|                                              |                                                       |           |                                                                        |         |         |         |         |         |         |         |         |         |         |
|----------------------------------------------|-------------------------------------------------------|-----------|------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Model                                        | ODU model                                             | BSAV-DRCX | 0300*3                                                                 | 0320*3  | 0260*4  | 0280*4  | 0300*4  | 0320*4  | 0240*6  | 0260*6  | 0280*6  | 0300*6  | 0320*6  |
|                                              | IDU model                                             | BAC/BBC   | 050056                                                                 | 050056  | 052057  | 052062  | 057060  | 057064  | 057072  | 062070  | 067072  | 067086  | 067086  |
|                                              | Capacity                                              | HP        | 90                                                                     | 96      | 104     | 112     | 120     | 128     | 144     | 156     | 168     | 180     | 192     |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW        | 255.00                                                                 | 270.00  | 294.00  | 302.00  | 340.00  | 360.00  | 405.00  | 441.00  | 453.00  | 510.00  | 540.00  |
|                                              | Rated heating capacity                                | kW        | 285.00                                                                 | 300.00  | 326.00  | 342.00  | 380.00  | 400.00  | 453.00  | 489.00  | 513.00  | 570.00  | 600.00  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW        | 68.85                                                                  | 74.00   | 78.00   | 81.00   | 92.00   | 99.12   | 109.20  | 116.40  | 122.10  | 137.70  | 148.68  |
|                                              | Rated heating power <sup>1</sup>                      | kW        | 68.55                                                                  | 72.90   | 77.00   | 80.72   | 91.40   | 97.20   | 108.60  | 115.20  | 121.08  | 137.10  | 145.80  |
|                                              | Maximum operating power                               | kW        | 103.35                                                                 | 109.50  | 127.20  | 128.00  | 137.80  | 146.00  | 180.00  | 190.80  | 192.00  | 206.70  | 219.00  |
|                                              | Maximum operating current                             | A         | 184.35                                                                 | 190.50  | 210.00  | 226.20  | 245.80  | 254.00  | 300.00  | 315.00  | 339.30  | 368.70  | 381.00  |
|                                              | ODU power supply                                      | -         | 380V 3N~ 50Hz                                                          |         |         |         |         |         |         |         |         |         |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h      | 54000                                                                  | 57600   | 62400   | 67200   | 72000   | 76800   | 86400   | 93600   | 100800  | 108000  | 115200  |
|                                              | Maximum fresh air ratio                               | %         | Fresh air ratio ≤50%                                                   |         |         |         |         |         |         |         |         |         |         |
|                                              | Cooling coil section length for reference             | mm        | 800                                                                    | 800     | 900     | 900     | 900     | 900     | 900     | 900     | 900     | 900     | 900     |
|                                              | IDU power supply                                      | -         | 380V 3N~ 50Hz                                                          |         |         |         |         |         |         |         |         |         |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C        | Circulated air -10 to 56°C                                             |         |         |         |         |         |         |         |         |         |         |
|                                              | Ambient temperature for heating                       | °C        | Circulated air -20 to 25°C                                             |         |         |         |         |         |         |         |         |         |         |
| Operation accuracy                           | Temperature accuracy                                  | °C        | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |         |         |         |         |         |         |         |         |         |         |
|                                              | Humidity accuracy                                     | -         | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |         |         |         |         |         |         |         |         |         |         |
| Compressor                                   | Type                                                  | -         | Rotor compressor                                                       |         |         |         |         |         |         |         |         |         |         |
|                                              | Quantity                                              | -         | 2*3                                                                    | 2*3     | 2*4     | 2*4     | 2*4     | 2*4     | 2*6     | 2*6     | 2*6     | 2*6     | 2*6     |
| ODU Fan motor                                | Number of fans                                        | -         | 2*3                                                                    | 2*3     | 2*4     | 2*4     | 2*4     | 2*4     | 2*6     | 2*6     | 2*6     | 2*6     | 2*6     |
|                                              | Air discharge mode                                    | -         | Axial flow upper air outlet                                            |         |         |         |         |         |         |         |         |         |         |
|                                              | Maximum air flow                                      | m³/h      | 27000*3                                                                | 27000*3 | 25800*4 | 27000*4 | 27000*4 | 25800*6 | 25800*6 | 27000*6 | 27000*6 | 27000*6 | 27000*6 |
| Single ODU Dimensions and weight             | Width                                                 | mm        | 1900                                                                   | 1900    | 1500    | 1900    | 1900    | 1500    | 1500    | 1900    | 1900    | 1900    | 1900    |
|                                              | Depth                                                 | mm        | 860                                                                    | 860     | 860     | 860     | 860     | 860     | 860     | 860     | 860     | 860     | 860     |
|                                              | Height                                                | mm        | 1690                                                                   | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    |
|                                              | Net Weight                                            | kg        | 430                                                                    | 430     | 330     | 420     | 430     | 430     | 325     | 330     | 420     | 430     | 430     |
| Refrigerant                                  | Type                                                  | -         | R410A                                                                  |         |         |         |         |         |         |         |         |         |         |
|                                              | ODU charge amount                                     | kg        | 20*3                                                                   | 20*3    | 16.5*4  | 17*4    | 20*4    | 20*4    | 16.5*6  | 16.5*6  | 17*6    | 20*6    | 20*6    |
| Connecting pipe                              | Liquid pipe * number                                  | mm        | 19.05*3                                                                | 19.05*3 | 19.05*4 | 19.05*4 | 19.05*4 | 19.05*4 | 19.05*6 | 19.05*6 | 19.05*6 | 19.05*6 | 19.05*6 |
|                                              | Steam pipe * number                                   | mm        | 31.75*3                                                                | 31.75*3 | 31.75*4 | 31.75*4 | 31.75*4 | 31.75*4 | 31.75*6 | 31.75*6 | 31.75*6 | 31.75*6 | 31.75*6 |
|                                              | Limit length/height difference (m) of connecting pipe |           | 100/50                                                                 |         |         |         |         |         |         |         |         |         |         |
|                                              | ODU connection mode <sup>2</sup>                      | -         | Welding                                                                |         |         |         |         |         |         |         |         |         |         |
| Condensate water                             | Water pan pipe diameter                               | -         | DN32                                                                   |         |         |         |         |         |         |         |         |         |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, outdoor dry-bulb temperature is 35/24°C, indoor dry-bulb temperature is 27/19°C;  
Rated heating capacity is nominal air volume, outdoor dry-bulb temperature is 7/6°C, indoor dry-bulb temperature is 20/15°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length;  
2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant must be added according to the "Installation and Operation Manual";  
3. The connecting pipe diameter of the internal and external units is based on the external unit diameter. The internal unit can be reduced in diameter. When the pipe exceeds 50m, the pipe diameter shall be based on the operating instructions;  
4. For more air volume selection, please consult the local branch or office of Brise Air;  
5. If there is a need to change the maximum length of the pipe for 6HP-10HP, please communicate with the factory.

Parameters of variable frequency DX units (fresh air purification & fresh air constant temperature and humidity)

|                                              |                                                       |           |                                                                        |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
|----------------------------------------------|-------------------------------------------------------|-----------|------------------------------------------------------------------------|---------------|--------|---------|------------|---------------|-----------------------------|----------------------------|-----------------------------|------------------|--------|--------|--------|
| Model                                        | ODU model                                             | BSAV-DRCX | 0060                                                                   | 0080          | 0100   | 0060*2  | 0120       | 0080*2        | 0160                        | 0100*2                     | 0200                        | 0120*2           | 0240   | 0260   | 0280   |
|                                              | IDU model                                             | BAC/BBC   | 012013                                                                 | 010013        | 010015 | 012014  | 012014     | 012018        | 012018                      | 014017                     | 014017                      | 014020           | 014020 | 016019 | 016020 |
|                                              | Capacity                                              | HP        | 6                                                                      | 8             | 10     | 12      | 12         | 16            | 16                          | 20                         | 20                          | 24               | 24     | 26     | 28     |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW        | 15.00                                                                  | 24.50         | 28.00  | 30.00   | 32.00      | 49.00         | 45.00                       | 56.00                      | 56.00                       | 64.00            | 67.50  | 73.50  | 78.50  |
|                                              | Rated heating capacity                                | kW        | 16.00                                                                  | 21.50         | 26.00  | 32.00   | 30.00      | 43.00         | 43.00                       | 52.00                      | 52.00                       | 60.00            | 61.50  | 66.50  | 75.00  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW        | 5.10                                                                   | 6.63          | 7.47   | 10.20   | 8.70       | 13.26         | 12.30                       | 14.94                      | 15.70                       | 17.40            | 18.20  | 19.40  | 20.35  |
|                                              | Rated heating power <sup>1</sup>                      | kW        | 4.90                                                                   | 6.88          | 7.30   | 9.80    | 8.40       | 13.76         | 12.00                       | 14.60                      | 14.40                       | 16.80            | 18.10  | 19.20  | 20.18  |
|                                              | Maximum operating power                               | kW        | 7.00                                                                   | 10.80         | 13.50  | 14.00   | 16.50      | 21.60         | 22.00                       | 27.00                      | 26.00                       | 33.00            | 30.00  | 31.80  | 32.00  |
|                                              | Maximum operating current                             | A         | 32.00                                                                  | 18.00         | 22.50  | 64.00   | 26.50      | 36.00         | 36.50                       | 45.00                      | 43.00                       | 53.00            | 50.00  | 52.50  | 56.55  |
|                                              | ODU power supply                                      | -         | 220V~ 50Hz                                                             | 380V 3N~ 50Hz |        |         | 220V~ 50Hz | 380V 3N~ 50Hz |                             |                            |                             |                  |        |        |        |
| IDU                                          | Nominal IDU air flow                                  | m³/h      | 1300                                                                   | 1600          | 1800   | 2150    | 2150       | 2900          | 2900                        | 3600                       | 3600                        | 4350             | 4350   | 4750   | 5050   |
|                                              | Cooling coil section length for reference             | mm        | 600                                                                    | 600           | 600    | 600     | 600        | 600           | 600                         | 600                        | 600                         | 600              | 600    | 600    | 600    |
|                                              | IDU power supply                                      | -         | 380V 3N~ 50Hz                                                          |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C        | Fresh air 13 to 48°C                                                   |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
|                                              | Ambient temperature for heating                       | °C        | Fresh air -15 to 25°C                                                  |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
| Operation accuracy                           | Temperature accuracy                                  | °C        | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
|                                              | Humidity accuracy                                     | -         | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
| Compressor                                   | Type                                                  | -         | Rotor compressor                                                       |               |        |         |            |               |                             |                            | Scroll compres-sor          | Rotor compressor |        |        |        |
|                                              | Quantity                                              | -         | 1                                                                      | 1             | 1      | 1*2     | 1          | 1*2           | 1                           | 1*2                        | 1                           | 1*2              | 2      | 2      | 2      |
| ODU Fan motor                                | Number of fans                                        | -         | 1                                                                      | 2             | 2      | 1*2     | 2          | 2*2           | 1                           | 2*2                        | 2                           | 2*2              | 2      | 2      | 2      |
|                                              | Air discharge mode                                    | -         | Axial flow side air outlet                                             |               |        |         |            |               | Axial flow upper air outlet | Axial flow side air outlet | Axial flow upper air outlet |                  |        |        |        |
|                                              | Maximum air flow                                      | m³/h      | 5000                                                                   | 8000          | 8000   | 5000*2  | 11300      | 8000*2        | 13980                       | 8000*2                     | 25800                       | 11300*2          | 25800  | 25800  | 27000  |
| Single ODU Dimensions and weight             | Width                                                 | mm        | 985                                                                    | 985           | 985    | 985     | 1100       | 985           | 1240                        | 985                        | 1500                        | 1100             | 1500   | 1500   | 1900   |
|                                              | Depth                                                 | mm        | 466                                                                    | 466           | 466    | 466     | 450        | 466           | 860                         | 466                        | 860                         | 450              | 860    | 860    | 860    |
|                                              | Height                                                | mm        | 840                                                                    | 1264          | 1264   | 840     | 1550       | 1264          | 1690                        | 1264                       | 1690                        | 1550             | 1690   | 1690   | 1690   |
|                                              | Net Weight                                            | kg        | 84                                                                     | 125           | 125    | 84      | 212        | 125           | 277                         | 125                        | 320                         | 212              | 325    | 330    | 420    |
| Refrigerant                                  | Type                                                  | -         | R410A                                                                  |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
|                                              | ODU charge amount <sup>2</sup>                        | kg        | 3.5                                                                    | 5.5           | 7.5    | 3.5*2   | 8          | 5.5*2         | 13.5                        | 7.5*2                      | 16.5                        | 8*2              | 16.5   | 16.5   | 17     |
| Connecting pipe                              | Liquid pipe * number                                  | mm        | 9.52                                                                   | 9.52          | 12.7   | 9.52*2  | 12.7       | 9.52*2        | 12.7                        | 12.7*2                     | 15.88                       | 12.7*2           | 19.05  | 19.05  | 19.05  |
|                                              | Steam pipe * number                                   | mm        | 15.88                                                                  | 19.05         | 22.23  | 15.88*2 | 25.4       | 19.05*2       | 28.58                       | 22.23*2                    | 28.58                       | 25.4*2           | 31.75  | 31.75  | 31.75  |
|                                              | Limit length/height difference (m) of connecting pipe |           | 30/20                                                                  | 50/20         |        | 30/20   | 100/50     | 50/20         | 100/50                      | 50/20                      | 100/50                      | 100/50           | 100/50 | 100/50 | 100/50 |
|                                              | ODU connection mode <sup>2</sup>                      | -         | Welding                                                                |               |        |         |            |               |                             |                            |                             |                  |        |        |        |
| Condensate water                             | Water pan pipe diameter                               | -         | DN32                                                                   |               |        |         |            |               |                             |                            |                             |                  |        |        |        |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, indoor and outdoor dry-bulb temperature is 35/28°C;  
Rated heating capacity is nominal air volume, indoor and outdoor dry-bulb temperature is 7/6°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length.  
2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant needs to be added according to the "Installation and Operation Manual";  
3. The diameter of the connecting pipe between the internal and external units is the diameter of the external unit, and the internal unit can be reduced in diameter;  
4. For more air volume selection, please consult Briese Air local branch and office;  
5. When the unit inlet temperature is lower than 0°C, if the heat pump needs to be turned on, a preheating section needs to be configured to preheat to above 5°C;  
6. If there is a need to change the maximum length of the connecting pipe for 6HP-10HP, please communicate with the factory.

Parameters of variable frequency DX units (fresh air purification & fresh air constant temperature and humidity)

|                                              |                                                       |           |                                                                        |         |        |                   |                  |         |         |         |         |         |         |         |
|----------------------------------------------|-------------------------------------------------------|-----------|------------------------------------------------------------------------|---------|--------|-------------------|------------------|---------|---------|---------|---------|---------|---------|---------|
| Model                                        | ODU model                                             | BSAV-DRCX | 0300                                                                   | 0160*2  | 0320   | 0200*2            | 0240*2           | 0260*2  | 0280*2  | 0300*2  | 0320*2  | 0240*3  | 0260*3  | 0280*3  |
|                                              | IDU model                                             | BAC/BBC   | 016022                                                                 | 016024  | 016024 | 020022            | 020026           | 020028  | 020032  | 022028  | 022030  | 023033  | 026031  | 026033  |
|                                              | Capacity                                              | HP        | 30                                                                     | 32      | 32     | 40                | 48               | 52      | 56      | 60      | 64      | 72      | 78      | 84      |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW        | 85.00                                                                  | 90.00   | 90.00  | 112.00            | 135.00           | 147.00  | 157.00  | 170.00  | 180.00  | 202.50  | 220.50  | 235.50  |
|                                              | Rated heating capacity                                | kW        | 79.50                                                                  | 86.00   | 85.00  | 104.00            | 123.00           | 133.00  | 150.00  | 159.00  | 170.00  | 184.50  | 199.50  | 225.00  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW        | 22.95                                                                  | 24.60   | 24.78  | 31.40             | 36.40            | 38.80   | 40.70   | 45.90   | 49.56   | 54.60   | 58.20   | 61.05   |
|                                              | Rated heating power <sup>1</sup>                      | kW        | 22.85                                                                  | 24.00   | 24.30  | 28.80             | 36.20            | 38.40   | 40.36   | 45.70   | 48.60   | 54.30   | 57.60   | 60.54   |
|                                              | Maximum operating power                               | kW        | 34.45                                                                  | 44.00   | 36.50  | 52.00             | 60.00            | 63.60   | 64.00   | 68.90   | 73.00   | 90.00   | 95.40   | 96.00   |
|                                              | Maximum operating current                             | A         | 61.45                                                                  | 73.00   | 63.50  | 86.00             | 100.00           | 105.00  | 113.10  | 122.90  | 127.00  | 150.00  | 157.50  | 169.65  |
|                                              | ODU power supply                                      | -         | 380V 3N~ 50Hz                                                          |         |        |                   |                  |         |         |         |         |         |         |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h      | 5500                                                                   | 5800    | 5800   | 7200              | 8700             | 9500    | 10100   | 11000   | 11600   | 13050   | 14250   | 15150   |
|                                              | Cooling coil section length for reference             | mm        | 600                                                                    | 600     | 600    | 600               | 800              | 800     | 800     | 800     | 800     | 800     | 800     | 800     |
|                                              | IDU power supply                                      | -         | 380V 3N~ 50Hz                                                          |         |        |                   |                  |         |         |         |         |         |         |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C        | Fresh air 13 to 48°C                                                   |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Ambient temperature for heating                       | °C        | Fresh air -15 to 25°C                                                  |         |        |                   |                  |         |         |         |         |         |         |         |
| Operation accuracy                           | Temperature accuracy                                  | °C        | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Humidity accuracy                                     | -         | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |         |        |                   |                  |         |         |         |         |         |         |         |
| Compressor                                   | Type                                                  | -         | Rotor compressor                                                       |         |        | Scroll compressor | Rotor compressor |         |         |         |         |         |         |         |
|                                              | Quantity                                              | -         | 2                                                                      | 1*2     | 2      | 1*2               | 2*2              | 2*2     | 2*2     | 2*2     | 2*2     | 2*3     | 2*3     | 2*3     |
| ODU Fan motor                                | Number of fans                                        | -         | 2                                                                      | 1*2     | 2      | 2*2               | 2*2              | 2*2     | 2*2     | 2*2     | 2*2     | 2*3     | 2*3     | 2*3     |
|                                              | Air discharge mode                                    | -         | Axial flow upper air outlet                                            |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | Maximum air flow                                      | m³/h      | 27000                                                                  | 13980*2 | 27000  | 25800*2           | 25800*2          | 25800*2 | 27000*2 | 27000*2 | 25800*3 | 25800*3 | 27000*3 |         |
| Single ODU Dimensions and weight             | Width                                                 | mm        | 1900                                                                   | 1240    | 1900   | 1500              | 1500             | 1500    | 1900    | 1900    | 1900    | 1500    | 1500    | 1900    |
|                                              | Depth                                                 | mm        | 860                                                                    | 860     | 860    | 860               | 860              | 860     | 860     | 860     | 860     | 860     | 860     | 860     |
|                                              | Height                                                | mm        | 1690                                                                   | 1690    | 1690   | 1690              | 1690             | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    |
|                                              | Net Weight                                            | kg        | 430                                                                    | 277     | 430    | 320               | 325              | 330     | 420     | 430     | 430     | 325     | 330     | 420     |
| Refrigerant                                  | Type                                                  | -         | R410A                                                                  |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg        | 20                                                                     | 13.5*2  | 20     | 16.5*2            | 16.5*2           | 16.5*2  | 17*2    | 20*2    | 20*2    | 16.5*3  | 16.5*3  | 17*3    |
| Connecting pipe                              | Liquid pipe * number                                  | mm        | 19.05                                                                  | 12.7*2  | 19.05  | 15.88*2           | 19.05*2          | 19.05*2 | 19.05*2 | 19.05*2 | 19.05*2 | 19.05*3 | 19.05*3 | 19.05*3 |
|                                              | Steam pipe * number                                   | mm        | 31.75                                                                  | 28.58*2 | 31.75  | 28.58*2           | 31.75*2          | 31.75*2 | 31.75*2 | 31.75*2 | 31.75*2 | 31.75*3 | 31.75*3 | 31.75*3 |
|                                              | Limit length/height difference (m) of connecting pipe | 100/50    |                                                                        |         |        |                   |                  |         |         |         |         |         |         |         |
|                                              | ODU connection mode <sup>3</sup>                      | -         | Welding                                                                |         |        |                   |                  |         |         |         |         |         |         |         |
| Condensate water                             | Water pan pipe diameter                               | -         | DN32                                                                   |         |        |                   |                  |         |         |         |         |         |         |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, indoor and outdoor dry-bulb temperature is 35/28°C;  
Rated heating capacity is nominal air volume, indoor and outdoor dry-bulb temperature is 7/6°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length.

2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant needs to be added according to the "Installation and Operation Manual";

3. The diameter of the connecting pipe between the internal and external units is the diameter of the external unit, and the internal unit can be reduced in diameter;

4. For more air volume selection, please consult Briese Air local branch and office;

5. When the unit inlet temperature is lower than 0°C, if the heat pump needs to be turned on, a preheating section needs to be configured to preheat to above 5°C;

6. If there is a need to change the maximum length of the connecting pipe for 6HP-10HP, please communicate with the factory.

Parameters of variable frequency DX units (fresh air purification & fresh air constant temperature and humidity)

|                                              |                                                       |           |                                                                        |         |         |         |         |         |         |         |         |         |         |
|----------------------------------------------|-------------------------------------------------------|-----------|------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Model                                        | ODU model                                             | BSAV-DRCX | 0300*3                                                                 | 0320*3  | 0260*4  | 0280*4  | 0300*4  | 0320*4  | 0240*6  | 0260*6  | 0280*6  | 0300*6  | 0320*6  |
|                                              | IDU model                                             | BAC/BBC   | 026034                                                                 | 026037  | 028038  | 030039  | 030041  | 030044  | 032043  | 035044  | 037046  | 038050  | 042047  |
|                                              | Capacity                                              | HP        | 90                                                                     | 96      | 104     | 112     | 120     | 128     | 144     | 156     | 168     | 180     | 192     |
| Rated capacity <sup>1</sup>                  | Rated cooling capacity                                | kW        | 255.00                                                                 | 270.00  | 294.00  | 314.00  | 340.00  | 360.00  | 405.00  | 441.00  | 471.00  | 510.00  | 540.00  |
|                                              | Rated heating capacity                                | kW        | 238.50                                                                 | 255.00  | 266.00  | 300.00  | 318.00  | 340.00  | 369.00  | 399.00  | 450.00  | 477.00  | 510.00  |
| ODU power                                    | Rated cooling power <sup>1</sup>                      | kW        | 68.85                                                                  | 74.34   | 77.60   | 81.40   | 91.80   | 99.12   | 109.20  | 116.40  | 122.10  | 137.70  | 148.68  |
|                                              | Rated heating power <sup>1</sup>                      | kW        | 68.55                                                                  | 72.90   | 76.80   | 80.72   | 91.40   | 97.20   | 108.60  | 115.20  | 121.08  | 137.10  | 145.80  |
|                                              | Maximum operating power                               | kW        | 103.35                                                                 | 109.50  | 127.20  | 128.00  | 137.80  | 146.00  | 180.00  | 190.80  | 192.00  | 206.70  | 219.00  |
|                                              | Maximum operating current                             | A         | 184.35                                                                 | 190.50  | 210.00  | 226.20  | 245.80  | 254.00  | 300.00  | 315.00  | 339.30  | 368.70  | 381.00  |
|                                              | ODU power supply                                      | -         | 380V 3N~ 50Hz                                                          |         |         |         |         |         |         |         |         |         |         |
| IDU                                          | Nominal IDU air flow                                  | m³/h      | 16500                                                                  | 17400   | 19000   | 20200   | 22000   | 23200   | 26100   | 28500   | 30300   | 33000   | 34800   |
|                                              | Cooling coil section length for reference             | mm        | 800                                                                    | 800     | 900     | 900     | 900     | 900     | 900     | 900     | 900     | 900     | 900     |
|                                              | IDU power supply                                      | -         | 380V 3N~ 50Hz                                                          |         |         |         |         |         |         |         |         |         |         |
| Ambient temperature range for unit operation | Ambient temperature for cooling                       | °C        | Fresh air 13 to 48°C                                                   |         |         |         |         |         |         |         |         |         |         |
|                                              | Ambient temperature for heating                       | °C        | Fresh air -15 to 25°C                                                  |         |         |         |         |         |         |         |         |         |         |
| Operation accuracy                           | Temperature accuracy                                  | °C        | Constant temperature and humidity: Cooling-only: ±1°C; heat pump: ±2°C |         |         |         |         |         |         |         |         |         |         |
|                                              | Humidity accuracy                                     | -         | Constant temperature and humidity: Cooling-only: ±5%; heat pump: ±10%  |         |         |         |         |         |         |         |         |         |         |
| Compressor                                   | Type                                                  | -         | Rotor compressor                                                       |         |         |         |         |         |         |         |         |         |         |
|                                              | Quantity                                              | -         | 2*3                                                                    | 2*3     | 2*4     | 2*4     | 2*4     | 2*4     | 2*6     | 2*6     | 2*6     | 2*6     | 2*6     |
| ODU Fan motor                                | Number of fans                                        | -         | 2*3                                                                    | 2*3     | 2*4     | 2*4     | 2*4     | 2*4     | 2*6     | 2*6     | 2*6     | 2*6     | 2*6     |
|                                              | Air discharge mode                                    | -         | Axial flow upper air outlet                                            |         |         |         |         |         |         |         |         |         |         |
|                                              | Maximum air flow                                      | m³/h      | 27000*3                                                                | 27000*3 | 25800*4 | 27000*4 | 27000*4 | 27000*4 | 25800*6 | 25800*6 | 27000*6 | 27000*6 | 27000*6 |
| Single ODU Dimensions and weight             | Width                                                 | mm        | 1900                                                                   | 1900    | 1500    | 1900    | 1900    | 1900    | 1500    | 1500    | 1900    | 1900    | 1900    |
|                                              | Depth                                                 | mm        | 860                                                                    | 860     | 860     | 860     | 860     | 860     | 860     | 860     | 860     | 860     | 860     |
|                                              | Height                                                | mm        | 1690                                                                   | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    | 1690    |
|                                              | Net Weight                                            | kg        | 430                                                                    | 430     | 330     | 420     | 430     | 430     | 325     | 330     | 420     | 320     | 430     |
| Refrigerant                                  | Type                                                  | -         | R410A                                                                  |         |         |         |         |         |         |         |         |         |         |
|                                              | ODU charge amount <sup>2</sup>                        | kg        | 20*3                                                                   | 20*3    | 16.5*4  | 17*4    | 20*4    | 20*4    | 16.5*6  | 16.5*6  | 17*6    | 20*6    | 20*6    |
| Connecting pipe                              | Liquid pipe * number                                  | mm        | 19.05*3                                                                | 19.05*3 | 19.05*4 | 19.05*4 | 19.05*4 | 19.05*4 | 19.05*6 | 19.05*6 | 19.05*6 | 19.05*6 | 19.05*6 |
|                                              | Steam pipe * number                                   | mm        | 31.75*3                                                                | 31.75*3 | 31.75*4 | 31.75*4 | 31.75*4 | 31.75*4 | 31.75*6 | 31.75*6 | 31.75*6 | 31.75*6 | 31.75*6 |
|                                              | Limit length/height difference (m) of connecting pipe | 100/50    |                                                                        |         |         |         |         |         |         |         |         |         |         |
|                                              | ODU connection mode <sup>3</sup>                      | -         | Welding                                                                |         |         |         |         |         |         |         |         |         |         |
| Condensate water                             | Water pan pipe diameter                               | -         | DN32                                                                   |         |         |         |         |         |         |         |         |         |         |

Note: 1. Rated capacity and rated power are measured under the following conditions:  
Rated cooling capacity is nominal air volume, indoor and outdoor dry-bulb temperature is 35/28°C;  
Rated heating capacity is nominal air volume, indoor and outdoor dry-bulb temperature is 7/6°C;  
Performance test piping condition is equivalent to 7.5m (horizontal) pipe length.

2. The unit has been filled with refrigerant according to the nameplate refrigerant amount before leaving the factory. If the equivalent pipe length exceeds 7.5m, refrigerant needs to be added according to the "Installation and Operation Manual";

3. The diameter of the connecting pipe between the internal and external units is the diameter of the external unit, and the internal unit can be reduced in diameter;

4. For more air volume selection, please consult Briese Air local branch and office;

5. When the unit inlet temperature is lower than 0°C, if the heat pump needs to be turned on, a preheating section needs to be configured to preheat to above 5°C;

6. If there is a need to change the maximum length of the connecting pipe for 6HP-10HP, please communicate with the factory.

Parameters of variable frequency split-type deep dehumidification performance

| Horse power                                 |                                            |                 | 6                      |            | 8         |               | 10        |           | 12        |            | 16         |            | 20         |       |
|---------------------------------------------|--------------------------------------------|-----------------|------------------------|------------|-----------|---------------|-----------|-----------|-----------|------------|------------|------------|------------|-------|
| Model                                       | ODU model * quantity                       | BSAV            | 0060*1                 |            | 0080*1    |               | 0100*1    |           | 0120*1    |            | 0160*1     |            | 0200*1     |       |
|                                             | IDU cabinet specifications                 | BAC/BBC         | 012017                 | 016020     | 016020    | 016024        | 016024    | 020024    | 020024    | 020028     | 020028     | 022030     | 022030     |       |
| Rated cooling capacity                      |                                            | kW              | 15                     | 15         | 24.5      | 24.5          | 28        | 28        | 32        | 32         | 45         | 45         | 56         |       |
| Rated air flow                              |                                            | m³/h            | 3000                   | 5000       | 5000      | 6500          | 6500      | 8500      | 8500      | 10300      | 10300      | 13000      | 13000      |       |
| Air flow range                              |                                            | m³/h            | 1600-3300              | 2500-5500  | 2500-5500 | 3250-7300     | 3250-7300 | 3900-9200 | 3900-9200 | 5000-11000 | 5000-11000 | 6000-13500 | 6000-13500 |       |
| Number of optional rows of water coil       |                                            | ROW             | 6-8                    |            |           |               |           |           |           |            |            |            |            |       |
| Deep dehu-<br>midification<br>module IDU    | Air inlet dew point temperature range      | °C              | 13-18                  |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Water coil + fluorine coil section length  | mm              | 900                    |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Coil resistance                            | Pa              | 150                    |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Power supply                               | -               | 380V 3N~ 50Hz          |            |           |               |           |           |           |            |            |            |            |       |
| ODU                                         | Compressor type                            |                 | DC inverter compressor |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Throttle component                         |                 | EXV                    |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Dimensions<br>(Single ODU)                 | Length          | mm                     | 985        | 985       | 985           | 985       | 985       | 985       | 1100       | 1100       | 1240       | 1240       | 1500  |
|                                             |                                            | Width           | mm                     | 466        | 466       | 466           | 466       | 466       | 466       | 450        | 450        | 860        | 860        | 860   |
|                                             |                                            | Height          | mm                     | 840        | 840       | 1264          | 1264      | 1264      | 1264      | 1550       | 1550       | 1690       | 1690       | 1690  |
|                                             | Weight (single ODU)                        |                 | kg                     | 84         | 84        | 125           | 125       | 125       | 125       | 212        | 212        | 277        | 277        | 320   |
|                                             | Power supply                               |                 | -                      | 220V~ 50Hz |           | 380V 3N~ 50Hz |           |           |           |            |            |            |            |       |
|                                             | Power input<br>(Single ODU)                | Rated Power (W) | kW                     | 5.10       | 5.10      | 6.63          | 6.63      | 7.47      | 7.47      | 8.7        | 8.7        | 12.3       | 12.3       | 15.7  |
|                                             |                                            | Maximum power   | kW                     | 7          | 7         | 10.8          | 10.8      | 13.5      | 13.5      | 16.5       | 16.5       | 22         | 22         | 26    |
|                                             | Input current<br>(Single ODU)              | Rated current   | A                      | 28.6       | 28.6      | 11.24         | 11.24     | 12.33     | 12.33     | 14.3       | 14.3       | 21.3       | 21.3       | 26.1  |
|                                             |                                            | Maximum current | A                      | 32         | 32        | 18            | 18        | 22.5      | 22.5      | 26.5       | 26.5       | 36.5       | 36.5       | 43    |
| Refrigerant                                 | Model                                      |                 | R410a                  |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Charge amount                              | kg              | 3.5                    | 3.5        | 5.5       | 5.5           | 7.5       | 7.5       | 8.5       | 8.5        | 13.5       | 13.5       | 16.5       |       |
| Connection<br>pipe                          | Connection mode                            |                 | Welding                |            |           |               |           |           |           |            |            |            |            |       |
|                                             | Dimensions<br>of ODU<br>connecting<br>pipe | Liquid pipe     | φmm                    | 9.52       | 9.52      | 9.52          | 9.52      | 12.7      | 12.7      | 12.7       | 12.7       | 12.7       | 12.7       | 15.88 |
|                                             |                                            | Gas pipe        | φmm                    | 15.88      | 15.88     | 19.05         | 19.05     | 22.33     | 22.23     | 25.4       | 25.4       | 28.58      | 28.58      | 28.58 |
| Water pipe diameter of condensate water pan |                                            |                 | DN32                   |            |           |               |           |           |           |            |            |            |            |       |

Notes: 1. Piping conditions for unit performance test: equivalent refrigerant length 7.5m (horizontal);  
2. Ambient temperature range for cooling operation of fresh air unit: 13~48°C;  
3. For wiring specifications of the external unit, please refer to the sample "Electrical Parameter Table". Be sure to refer to the maximum power and maximum current when distributing power;  
4. The diameter of the refrigerant pipe between the internal and external units is consistent with the diameter of the refrigerant pipe of the external unit.

Parameters of variable frequency split-type deep dehumidification performance

| Horse power                                 |                                           |                 | 24      | 26                     | 32         |            | 32          |            | 40          | 48          |             | 60          | 80          |             |
|---------------------------------------------|-------------------------------------------|-----------------|---------|------------------------|------------|------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model                                       | ODU model * quantity                      |                 | BSAV    | 0120*2                 | 0260*1     | 0320*1     | 0160*2      |            | 0200*2      | 0160*3      |             | 0200*3      | 0200*4      |             |
|                                             | IDU cabinet specifications                |                 | BAC/BBC | 026035                 | 026035     | 026035     | 026040      | 026035     | 026040      | 026040      | 030046      | 037043      | 037043      | 042049      |
| Rated cooling capacity                      |                                           |                 | kW      | 64                     | 73.5       | 90         | 90          | 90         | 90          | 112         | 135         | 135         | 168         | 224         |
| Rated air flow                              |                                           |                 | m³/h    | 18000                  | 18000      | 18000      | 21000       | 18000      | 21000       | 21000       | 25000       | 31000       | 31000       | 38000       |
| Air flow range                              |                                           |                 | m³/h    | 9000-19500             | 9000-19500 | 9000-19500 | 10500-22500 | 9000-19500 | 10500-22500 | 10500-22500 | 12500-26500 | 16500-34000 | 16500-34000 | 18500-42000 |
| Number of optional rows of water coil       |                                           |                 | ROW     | 6-8                    |            |            |             |            |             |             |             |             |             |             |
| Deep dehu-<br>midification<br>module IDU    | Air inlet dew point temperature range     |                 | °C      | 13-18                  |            |            |             |            |             |             |             |             |             |             |
|                                             | Water coil + fluorine coil section length |                 | mm      | 900                    |            |            |             |            |             |             | 1000        |             |             |             |
|                                             | Coil resistance                           |                 | Pa      | 150                    |            |            |             |            |             |             |             |             |             |             |
|                                             | Power supply                              |                 | -       | 380V 3N~ 50Hz          |            |            |             |            |             |             |             |             |             |             |
| ODU                                         | Compressor type                           |                 |         | DC inverter compressor |            |            |             |            |             |             |             |             |             |             |
|                                             | Throttle component                        |                 |         | EXV                    |            |            |             |            |             |             |             |             |             |             |
|                                             | Dimensions<br>(Single ODU)                | Length          | mm      | 1100                   | 1500       | 1900       | 1900        | 1240       | 1240        | 1500        | 1240        | 1240        | 1500        | 1500        |
|                                             |                                           | Width           | mm      | 450                    | 860        | 860        | 860         | 860        | 860         | 860         | 860         | 860         | 860         | 860         |
|                                             |                                           | Height          | mm      | 1550                   | 1690       | 1690       | 1690        | 1690       | 1690        | 1690        | 1690        | 1690        | 1690        | 1690        |
|                                             | Weight (single ODU)                       |                 | kg      | 212                    | 330        | 430        | 430         | 277        | 277         | 320         | 277         | 277         | 320         | 320         |
|                                             | Power supply                              |                 | -       | 380V 3N~ 50Hz          |            |            |             |            |             |             |             |             |             |             |
|                                             | Power input<br>(Single ODU)               | Rated Power (W) | kW      | 8.7                    | 19.4       | 24.78      | 24.78       | 12.3       | 12.3        | 15.7        | 12.3        | 12.3        | 15.7        | 15.7        |
|                                             |                                           | Maximum power   | kW      | 16.5                   | 31.8       | 36.5       | 36.5        | 22         | 22          | 26          | 22          | 22          | 26          | 26          |
|                                             | Input current<br>(Single ODU)             | Rated current   | A       | 14.3                   | 44.5       | 54.5       | 54.5        | 21.3       | 21.3        | 26.1        | 21.3        | 21.3        | 26.1        | 26.1        |
|                                             |                                           | Maximum current | A       | 26.5                   | 52.5       | 63.5       | 63.5        | 36.5       | 36.5        | 43          | 36.5        | 36.5        | 43          | 43          |
| Refrigerant                                 | Model                                     |                 |         | R410a                  |            |            |             |            |             |             |             |             |             |             |
|                                             | Charge amount                             |                 | kg      | 8.5*2                  | 16.5       | 20         | 20          | 13.5*2     | 13.5*2      | 16.5*2      | 13.5*3      | 13.5*3      | 16.5*3      | 16.5*4      |
| Connection<br>pipe                          | Connection mode                           |                 |         | Welding                |            |            |             |            |             |             |             |             |             |             |
|                                             | Dimensions                                | Liquid pipe     | φmm     | 12.7*2                 | 19.05      | 19.05      | 19.05       | 12.7*2     | 12.7*2      | 15.88*2     | 12.7*3      | 12.7*3      | 15.88*3     | 15.88*4     |
|                                             |                                           | Gas pipe        | φmm     | 25.4*2                 | 31.75      | 31.75      | 31.75       | 28.58*2    | 28.58*2     | 28.58*2     | 28.58*3     | 28.58*3     | 28.58*3     | 28.58*4     |
| Water pipe diameter of condensate water pan |                                           |                 |         | DN32                   |            |            |             |            |             |             |             |             |             |             |

Notes: 1. Piping conditions for unit performance test: equivalent refrigerant length 7.5m (horizontal);  
2. Ambient temperature range for cooling operation of fresh air unit: 13~48°C;  
3. For wiring specifications of the external unit, please refer to the sample "Electrical Parameter Table". Be sure to refer to the maximum power and maximum current when distributing power;  
4. The diameter of the refrigerant pipe between the internal and external units is consistent with the diameter of the refrigerant pipe of the external unit.

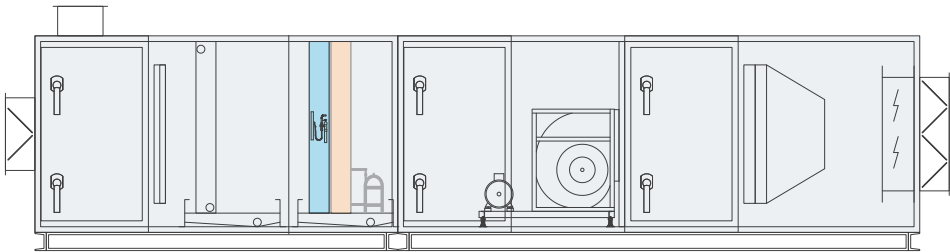


Performance Deviation

Double cold source integrated deep dehumidification performance verification table

In places where temperature and humidity control is required, such as clean operating rooms in hospitals, it is usually necessary to concentrate and deeply dehumidify the fresh air to bear the indoor humidity load. The water meter cooling plus fluorine meter cooling solution is adopted, and cold water is used to flexibly adjust the stable air outlet temperature. The refrigerant in the rear stage directly evaporates to ensure deep dehumidification, reducing the requirements for the quality of the cold source in the front stage.

Conventional function section arrangement



Specifications of Deep Dehumidification Fresh Air Handling Unit (Integral)

| Model                                       |                                                                        | BAC           | 02026                                                     | 020030 | 022032 | 026034 |
|---------------------------------------------|------------------------------------------------------------------------|---------------|-----------------------------------------------------------|--------|--------|--------|
|                                             |                                                                        | BBC           |                                                           |        |        |        |
| Air flow                                    |                                                                        | m³/h          | 6500                                                      | 8000   | 10000  | 12500  |
| Air flow range                              |                                                                        | m³/h          | Standard air flow * 60%≤Air flow≤Standard air flow * 110% |        |        |        |
| Number of optional rows of water coil       |                                                                        |               | 6 to 8 rows                                               |        |        |        |
| Deep dehumidification module                | Compressor HP                                                          | -             | 4Hp                                                       | 5Hp    | 6Hp    | 8Hp    |
|                                             | Cooling capacity of the evaporator                                     | kW            | 12                                                        | 14.5   | 18.5   | 23.2   |
|                                             | Heating capacity of the condenser                                      | kW            | 15.2                                                      | 18.2   | 22.7   | 28.7   |
|                                             | Dew-point temperature range of the air inlet machine of the evaporator | °C            | 12°C to 18°C                                              |        |        |        |
|                                             | Compressor type                                                        | -             | Hermetic scroll compressor                                |        |        |        |
|                                             | Rated power input of the compressor                                    | kW            | 2.70                                                      | 3.5    | 3.7    | 4.2    |
|                                             | Rated current of the compressor                                        | A             | 4.9                                                       | 6.6    | 7.1    | 8.1    |
|                                             | Refrigerant                                                            | Model         | R410A                                                     |        |        |        |
|                                             |                                                                        | Charge amount | 2.6                                                       | 2.8    | 3.2    | 3.8    |
|                                             | Module section length                                                  | mm            | 1200                                                      |        |        |        |
| Fan form                                    |                                                                        | -             | Belt-driven low noise centrifugal type                    |        |        |        |
| Power supply of the unit                    |                                                                        | -             | 380V 3N~ 50Hz                                             |        |        |        |
| Water pipe diameter of condensate water pan |                                                                        |               | DN32                                                      |        |        |        |

Note: 1. The cooling capacity of the integrated deep dehumidification module is measured under the conditions of evaporator inlet dry-bulb temperature of 14/13.5°C and nominal air volume;  
The cooling capacity of the split deep dehumidification module is measured under the conditions of evaporator inlet dry-bulb temperature of 16/15.5°C and nominal air volume;  
2. The integrated deep dehumidification module has been filled with refrigerant before leaving the factory, and the outdoor unit of the split deep dehumidification module has been filled with refrigerant, and the internal unit is kept pressurized with nitrogen;  
3. The compressor of the integrated deep dehumidification module is placed in the air conditioning box, without outdoor unit;  
4. Specifications are subject to change due to product improvement without further notice, please refer to the unit nameplate.

Performance Deviation

Variable frequency DX outdoor unit performance verification table

The cooling and heating capacity of the direct expansion machine is closely related to the actual use of the system. When selecting the outdoor unit, be sure to refer to the following performance deviation table to check the performance.  
For example: the actual working environment of the outdoor unit is 30°C, the air supply temperature of the indoor unit is 18°C, and the total length of the equivalent connecting pipe is 45m without height difference.  
Then the actual refrigeration performance correction coefficient of the outdoor unit = K1×K2×K3×K4=1.08×1.12×0.92×1=1.11

1. Ambient temperature and outlet air temperature deviation correction factors K1 and K2

| ODU ambient temperature (°C)          | 26   | 28  | 30   | 35 | 38   | 40   | 43   | 48   |
|---------------------------------------|------|-----|------|----|------|------|------|------|
| Cooling capacity correction factor K1 | 1.13 | 1.1 | 1.08 | 1  | 0.96 | 0.94 | 0.89 | 0.85 |

| ODU ambient temperature (°C)           | -20  | -15  | -7   | 0   | 7 | 15  | 25  |
|----------------------------------------|------|------|------|-----|---|-----|-----|
| Heating capacity correction factor K1' | 0.56 | 0.75 | 0.81 | 0.9 | 1 | 1.1 | 1.2 |

| Air outlet temperature of IDU evaporator (°C) | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
|-----------------------------------------------|------|------|------|------|------|------|------|------|------|
| Cooling capacity correction factor K2         | 0.74 | 0.77 | 0.80 | 0.83 | 0.86 | 0.89 | 0.93 | 0.97 | 1.00 |

2. Connecting pipe length correction factor K3

When the connecting pipe between IDU and ODU is too long, or the height difference is too large, the ODU capacity should be corrected according to the correction factor K3 in the following table

| Correction factor                         |     | Equivalent total length (m) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------------|-----|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                           |     | 5m                          | 10m   | 15m   | 20m   | 25m   | 30m   | 35m   | 40m   | 45m   | 50m   | 60m   | 70m   | 80m   | 90m   | 100m  |
| Height difference between the ODU and IDU | 0m  | 1.000                       | 0.990 | 0.980 | 0.970 | 0.960 | 0.950 | 0.940 | 0.930 | 0.920 | 0.910 | 0.900 | 0.890 | 0.880 | 0.870 | 0.860 |
|                                           | 10m |                             | 0.970 | 0.960 | 0.950 | 0.940 | 0.930 | 0.920 | 0.910 | 0.900 | 0.890 | 0.875 | 0.870 | 0.866 | 0.862 | 0.858 |
|                                           | 20m |                             |       |       | 0.930 | 0.920 | 0.910 | 0.900 | 0.890 | 0.880 | 0.870 | 0.867 | 0.864 | 0.861 | 0.858 | 0.856 |
|                                           | 30m |                             |       |       |       |       | 0.900 | 0.883 | 0.877 | 0.871 | 0.865 | 0.862 | 0.860 | 0.858 | 0.856 | 0.854 |
|                                           | 40m |                             |       |       |       |       |       |       | 0.870 | 0.865 | 0.860 | 0.858 | 0.856 | 0.854 | 0.853 | 0.852 |
|                                           | 50m |                             |       |       |       |       |       |       |       |       | 0.855 | 0.854 | 0.853 | 0.852 | 0.851 | 0.850 |

Note: 1. The equivalent total length of the equivalent connecting pipe refers to the total length of the straight pipe of the pipeline (including horizontal and vertical connecting pipes), plus the sum of the equivalent lengths of elbows and oil storage bends;  
2. Note that the maximum equivalent connecting pipe length and maximum height difference of different models are different, see "Product Parameters" for details.

3. High altitude correction factor K4

The variable frequency DX unit can be used in high altitude areas. When the altitude is higher than 2000 meters, correct it according to the following table

| Altitude (m)                   | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 | 3800 | 4000 |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Cooling attenuation factor K4  | 0.9  | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.82 | 0.8  | 0.78 | 0.76 |
| Cooling attenuation factor K4' | 0.9  | 0.89 | 0.88 | 0.87 | 0.85 | 0.83 | 0.81 | 0.79 | 0.77 | 0.75 | 0.72 |

Note: When the altitude exceeds 3000 meters, the electrical components of the internal machine need to be adjusted. Please consult the local branch or office of Brise Air

# BCARE



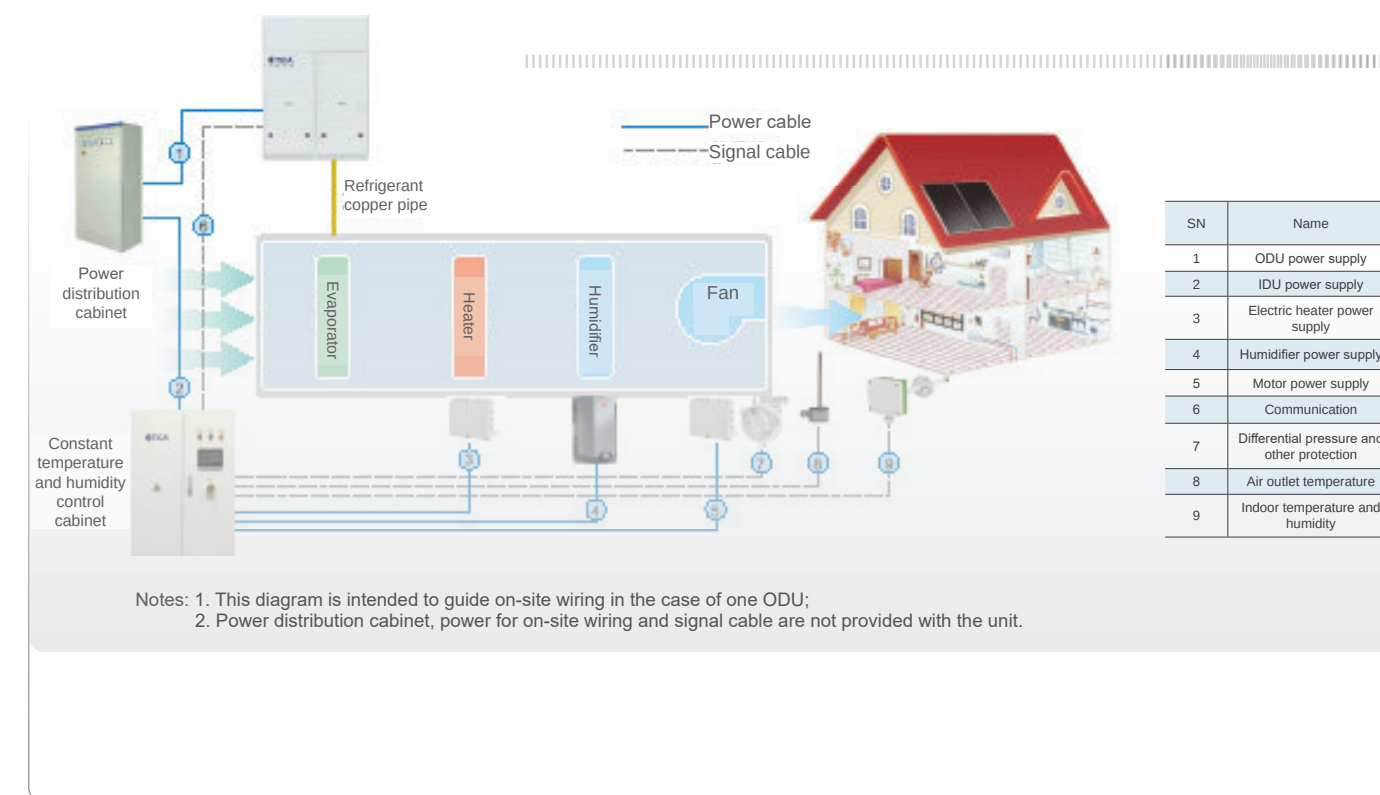
Briese Air service with a strong service management team composed of professional technical engineers, providing professional services

To customers quickly and effectively. Briese Air has developed digital services to bring customers into the cloud era, and to oversee the operation and maintenance of products with services such as data monitoring, fault prediction and resolution, customized maintenance and remote hosting.

## Installation

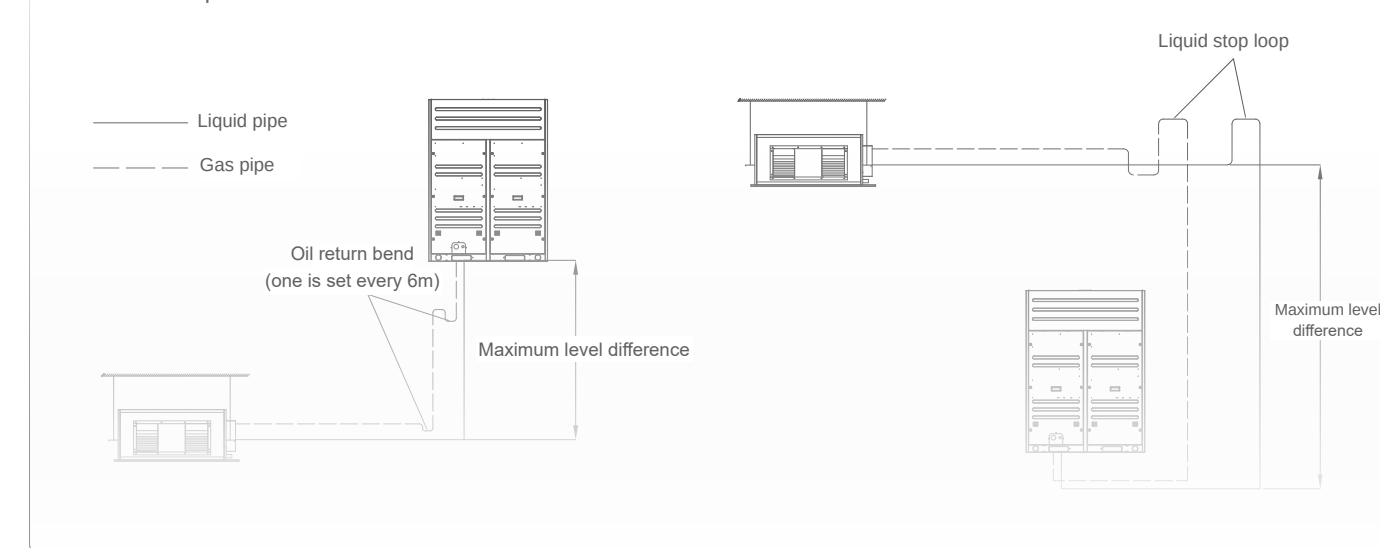
### Install unit

Electrical wiring diagram (taking the constant temperature and humidity system as an example)



### Schematic diagram of internal and external unit installation

Depending on the installation position of the indoor unit and outdoor unit, an oil return bend must be installed on the gas pipe (outdoor unit on top) or a liquid check ring must be installed on the gas-liquid pipe (outdoor unit on the bottom). Please refer to the installation and operation manual for details.



Installation requirements of IDU-ODU connecting pipe

It is recommended that the installation distance between the indoor and outdoor units should not be too long to avoid affecting the cooling/heating capacity. If the indoor and outdoor units are installed at a long distance/high height due to space limitations, the total length of the equivalent connecting pipe 3, the height difference between the indoor and outdoor units, and the total number of intermediate elbows of each model should not exceed the range in the table below.

Note that when using long connecting pipes for some models, the connecting pipe diameter needs to be enlarged according to the table below and the corresponding mass of refrigerant needs to be added.

| ODU model              | Limit length/height difference (m) of connecting pipe (m) | Dimensions of IDU-ODU connecting pipe (mm) |          | Added quantity of refrigerant (kg/m) when pipe length > 7.5 m |
|------------------------|-----------------------------------------------------------|--------------------------------------------|----------|---------------------------------------------------------------|
|                        |                                                           | Liquid pipe                                | Gas pipe |                                                               |
| BSAX0030DRC            | 15m/10m                                                   | 6.35                                       | 15.88    | 0.02                                                          |
| BSAX0080DRC            | 35m/20m                                                   | 9.52*2                                     | 15.88*2  | 0.03*2                                                        |
| BSAX0100DRC            | 35m/20m                                                   | 9.52*2                                     | 15.88*2  | 0.03*2                                                        |
| BSAX0125DRC            | 35m/20m                                                   | 9.52*2                                     | 15.88*2  | 0.03*2                                                        |
| BSAX0150DRC            | 35m/20m                                                   | 12.7*2                                     | 19.05*2  | 0.055*2                                                       |
| BSAX0200DRC            | 40m/20m                                                   | 12.7*2                                     | 22.23*2  | 0.055*2                                                       |
| BSAX0250DRC            | 40m/20m                                                   | 12.7*2                                     | 25.4*2   | 0.055*2                                                       |
| BSAX0600DRC            | 40m/20m                                                   | 19.05*2                                    | 34.92*2  | 0.275*2                                                       |
| BSAX1100/1200DRC       | 40m/20m                                                   | 19.05*4                                    | 34.92*4  | 0.275*4                                                       |
| BSAV0060DRCX           | 30m/20m                                                   | 9.52                                       | 15.88    | 0.057                                                         |
| BSAV0080DRCX           | 50m/20m                                                   | 9.52                                       | 19.05    | 0.057                                                         |
| BSAV0100DRCX           | 50m/20m                                                   | 12.7                                       | 22.23    | 0.11                                                          |
| BSAV0120DRCX           | ≤50m/50m                                                  | 12.7                                       | 25.4     | 0.11                                                          |
|                        | 50–90m/50m                                                | 12.7                                       | 28.58    | 0.11                                                          |
|                        | 100m/50m                                                  | 15.88                                      | 28.58    | 0.17                                                          |
| BSAV0160DRCX           | ≤50m/50m                                                  | 12.7                                       | 28.58    | 0.11                                                          |
|                        | 50–90m/50m                                                | 12.7                                       | 31.75    | 0.11                                                          |
|                        | 100m/50m                                                  | 15.88                                      | 31.75    | 0.17                                                          |
| BSAV0200DRCX           | ≤50m/50m                                                  | 15.88                                      | 28.58    | 0.17                                                          |
|                        | 50–90m/50m                                                | 15.88                                      | 31.75    | 0.17                                                          |
|                        | 100m/50m                                                  | 19.05                                      | 31.75    | 0.26                                                          |
| BSAV0240/0260/0280DRCX | ≤50m/50m                                                  | 19.05                                      | 31.75    | 0.26                                                          |
|                        | 50–90m/50m                                                | 19.05                                      | 31.75    | 0.26                                                          |
|                        | 100m/50m                                                  | 22.23                                      | 34.92    | 0.36                                                          |
| BSAV0300/0320DRCX      | ≤50m/50m                                                  | 19.05                                      | 31.75    | 0.26                                                          |
|                        | 50–90m/50m                                                | 19.05                                      | 31.75    | 0.26                                                          |
|                        | 100m/50m                                                  | 22.23                                      | 34.92    | 0.36                                                          |

Equivalent lengths of elbow and oil trap

| Outer diameter of connection pipe (mm) | φ9.52 (3/8") | φ12.7 (1/2") | φ15.88 (5/8") | φ22.23 (7/8") | φ28.6 (1-1/8") | φ34.9 (1-3/8") | φ38.1 (1-1/2") |
|----------------------------------------|--------------|--------------|---------------|---------------|----------------|----------------|----------------|
| Elbow (m)                              | 0.2          | 0.25         | 0.3           | 0.4           | 0.5            | 0.55           | 0.55           |
| Oil trap (m)                           | 1.4          | 1.8          | 2             | 2.8           | 3.7            | 4.1            | 4.1            |

Electrical parameters of ODU (single-module and multi-module single unit)

| ODU model    | Power supply  |               | Recommended ODU power cord       |        |            | Communication line                                             |
|--------------|---------------|---------------|----------------------------------|--------|------------|----------------------------------------------------------------|
|              | Type          | Voltage range | Cross section (mm <sup>2</sup> ) | Pieces | Length (m) | Cross section (mm <sup>2</sup> )                               |
| BSAX0030DRC  | 220V~ 50Hz    | 242/198V      | 2.5                              | 3      | ≤15        | 2.5 (6 pcs.)                                                   |
| BSAX0080DRC  | 380V 3N~ 50Hz | 418/342V      | 6                                | 5      |            | 1.5mm <sup>2</sup><br>polyethylene shielded twisted pair       |
| BSAX0100DRC  |               |               | 6                                |        |            |                                                                |
| BSAX0125DRC  |               |               | 6                                |        |            |                                                                |
| BSAX0150DRC  |               |               | 10                               |        |            |                                                                |
| BSAX0200DRC  |               |               | 10                               |        |            |                                                                |
| BSAX0250DRC  |               |               | 10                               |        |            |                                                                |
| BSAV0060DRCX | 220V~ 50Hz    | 242/198V      | 6                                | 3      | ≤20        | 0.75-1.25mm <sup>2</sup><br>polyethylene shielded twisted pair |
|              |               |               | 10                               |        | 20~50      |                                                                |
| BSAV0080DRCX | 380V 3N~ 50Hz | 418/342V      | 4                                | 5      | ≤20        |                                                                |
|              |               |               | 6                                |        | 20~50      |                                                                |
| 4            |               |               | ≤20                              |        |            |                                                                |
| 6            |               |               | 20~50                            |        |            |                                                                |
| 6            |               |               | ≤20                              |        |            |                                                                |
| 6            |               |               | 20~50                            |        |            |                                                                |
| 6            |               |               | ≤20                              |        |            |                                                                |
| 10           |               |               | 20~50                            |        |            |                                                                |
| 6            |               |               | ≤20                              |        |            |                                                                |
| 10           |               |               | 20~50                            |        |            |                                                                |
| 10           |               |               | ≤20                              |        |            |                                                                |
| 16           |               |               | 20~50                            |        |            |                                                                |
| 16           |               |               | ≤20                              |        |            |                                                                |
| 16           |               |               | 20~50                            |        |            |                                                                |
| 16           | ≤20           |               |                                  |        |            |                                                                |
| 25           | 20~50         |               |                                  |        |            |                                                                |

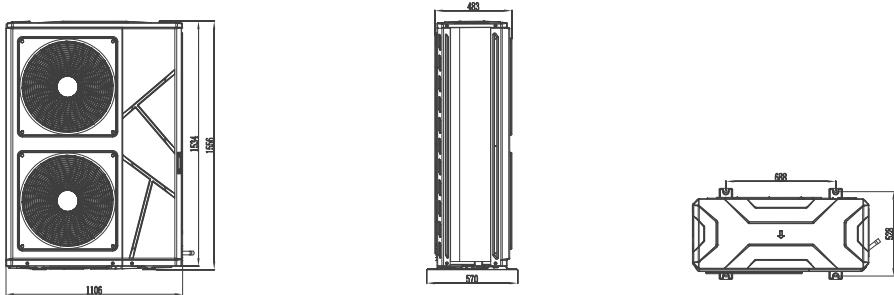
| Model                | ODU BSAX           | 0600                 |              |     | 1100      |              |     | 1200                 |              |     |
|----------------------|--------------------|----------------------|--------------|-----|-----------|--------------|-----|----------------------|--------------|-----|
| Power supply         |                    | 380V 3N~ 50Hz        |              |     |           |              |     |                      |              |     |
| Power cord           | Type               | ODU                  |              |     |           |              |     | ODU                  |              |     |
|                      |                    | Live wire            | Neutral line | GND | Live wire | Neutral line | GND | Live wire            | Neutral line | GND |
|                      | Sectional area mm2 | 70                   | 35           | 35  | 120       | 70           | 70  | 150                  | 95           | 95  |
|                      | Pieces             | 3                    | 1            | 1   | 3         | 1            | 1   | 3                    | 1            | 1   |
| Unit connecting wire | Sectional area mm2 | 1.5 (shielded cable) |              |     |           |              |     | 1.5 (shielded cable) |              |     |
|                      | Pieces             | 2                    |              |     | 2         |              |     | 2                    |              |     |

Note: 1. The recommended power cord specifications are based on the copper core cable specifications selected for fixed installation of single-core PVC insulated cables laid in the air and the ambient temperature of 40°C. If the on-site installation conditions change, please refer to the power cord specifications provided by the wire manufacturer and consider compatibility as appropriate.  
2. If the power cord length exceeds the recommended range, the cross-section of the power cord must be appropriately increased to avoid accidents caused by overload.

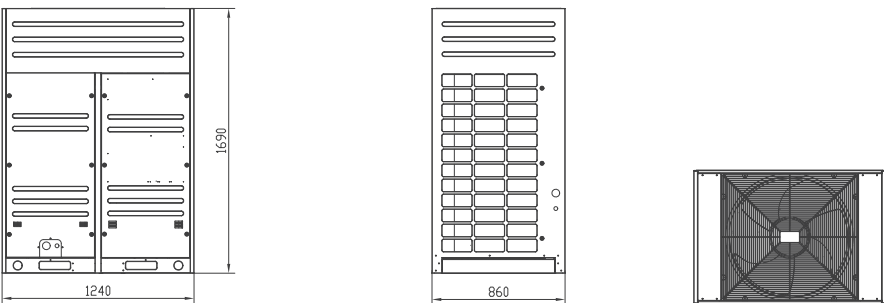




BSAV0120



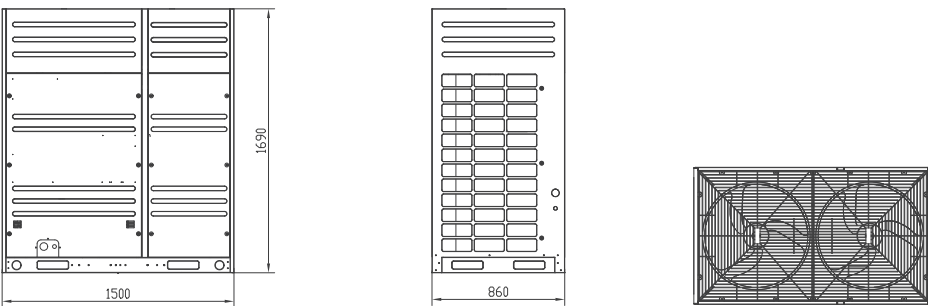
BSAV0160



BSAV0200

BSAV0240

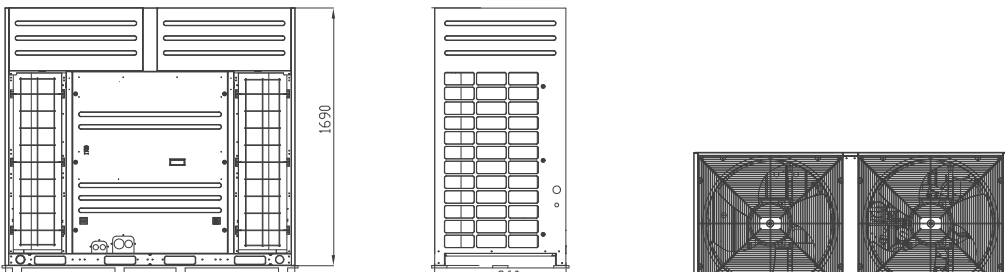
BSAV0260



BSAV0280

BSAV0300

BSAV0320



## Warranty

### DX air handling unit (ODU)

|                    |                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monthly inspection | 1. Check whether the unit generates any alarm                                                                                                            |
|                    | 2. Check for any abnormal compressor or fan noise                                                                                                        |
|                    | 3. Check for odors inside the startup cabinet and control cabinet                                                                                        |
|                    | 4. Check whether the temperature sensor and temperature probe are securely fixed                                                                         |
|                    | 5. Check for any appearance damage of the unit and whether heat exchanger or discharge fan is blocked                                                    |
|                    | 6. Check for leakage in the refrigerant loop (whether there is any greasy dirt or sound of leak)                                                         |
|                    | 7. Check whether the control cabinet is securely wired, whether wiring terminals are clean, whether the unit leaks, and whether contactor works properly |

Notes: 1. Monthly inspections are to be performed and recorded by the user.  
2. The replacement of consumable parts and materials is determined by the service life or operation duration of the unit. For units that operate all year around and those for the purpose of process, the operation duration should prevail; for units under normal operation and those for comfort, the service life should prevail.  
3. It is recommended that the unit should be fully maintained every three years or every 3,000 hours of machine operation. For clean units with purification requirements, shorten the maintenance time interval according to the user's cleaning requirements.  
For units with severe environmental conditions, they should be maintained monthly according to the inspection conditions.

### DX air handling unit (IDU)

| Check Item                        |                            |                                                | Monthly | Quarterly | Year | Concerns                                                                                                                                                                                                           |
|-----------------------------------|----------------------------|------------------------------------------------|---------|-----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air-side cabinet                  | Air inlet section          | Check whether the filter is dirty and clogged. | ★       | ★         | ★    | The final pressure drop of the unit reaches the requirements. (For the alarm values, see the technical manual.)                                                                                                    |
|                                   | Coil Section               | Cooling coil                                   | ☆       | ☆         | ★    | Check whether the surface is full of dust, oil stain, impurities, etc.                                                                                                                                             |
|                                   |                            | Fluorine coil                                  | ☆       | ☆         | ☆    |                                                                                                                                                                                                                    |
|                                   |                            | Steam coil                                     | ☆       | ☆         | ★    | Check whether the steam gauge pressure of the gas supply pressure is between 0.2 MPa and 0.4 MPa. Check whether the steam trap is dirty and clogged.                                                               |
|                                   |                            | Condensate water pan and drainage pipe         | ☆       | ☆         | ☆    | Check whether they are dirtied and clogged. Check whether water drainage is smooth.                                                                                                                                |
|                                   | Humidification section     | Electrode humidifier                           | ★       | ★         | ★    | Clean the humidifying barrel per 200 hours. Replace the electrode every 2000 hours.                                                                                                                                |
|                                   |                            | Dry steam humidifier                           | ☆       | ☆         | ☆    |                                                                                                                                                                                                                    |
|                                   | Fan section                | Measure the belt tension.                      | ☆       | ☆         | ☆    | Check for cracks.                                                                                                                                                                                                  |
|                                   |                            | Inspection of fan and motor bearing            | ★       | ★         | ★    | Normally, the lubricating grease should be replaced after the fan has operated for 1,500 hours. If the fan operates continuously for 24 hours, replace the lubricating grease every 500 to 700 hours of operation. |
| Electrical control and electrical | Electrical control cabinet | Fuse                                           | ☆       | ☆         | ☆    | Break                                                                                                                                                                                                              |
|                                   |                            | Contactor                                      | ☆       | ☆         | ☆    | Serious contact electrocorrosion or noise during running.                                                                                                                                                          |
|                                   |                            | Sensor                                         | ☆       | ☆         | ☆    | Measured value still varies from the actual value even after calibration.                                                                                                                                          |
|                                   |                            | High pressure switch                           | ☆       | ☆         | ☆    | Controller false alarm.                                                                                                                                                                                            |
|                                   |                            | Check whether the wiring point is loose.       | ★       | ★         | ★    | The contactor gets loose or can flexibly rotate when turning the connecting cable.                                                                                                                                 |
|                                   |                            | Checking power supply                          | ★       | ★         | ★    | Rated voltage $\pm 10\%$ , phase-to-phase unbalance $< 2\%$ .                                                                                                                                                      |
|                                   |                            | Checking phase                                 | ☆       | ☆         | ☆    | No phase loss or reverse phase                                                                                                                                                                                     |

Notes:  
① ★-----Items that must be maintained or replaced. ☆----- Determine the items to be maintained according to actual conditions.  
② Daily and monthly inspections should be performed and recorded by the user.  
③ The replacement of consumable parts and materials is determined by the service life or operation duration of the unit. For units that operate all year around and those for the purpose of process, the operation duration should prevail; for units under normal operation and those for comfort, the service life should prevail.  
④ It is recommended that the unit should be fully maintained every one year or every 1000 hours of machine operation. For clean units with purification requirements, shorten the maintenance time interval according to the user's cleaning requirements. For units with severe environmental conditions, they should be maintained monthly according to the inspection conditions.

# Briese<sup>®</sup> Air

Powered by Shitsudo

 **Genius** of the air

