



## Domestic Air conditioner

### CAUTION

1. READ THIS MANUAL CAREFULLY TO  
DIAGNOSE TROUBLE CORRECTLY  
BEFORE OFFERING SERVICE.
2. THIS MANUAL IS USED BY QUALIFIED  
APPLIANCE TECHNICIANS ONLY.
3. HAIER DOES NOT ASSUME ANY  
RESPONSIBILITY FOR PROPERTY  
DAMAGE OR PERSONAL INJURY FOR  
IMPROPER  
SERVICE PROCEDURES DONE BY ONE  
UNQUALIFIED PERSON.



# ***TECHNICAL DATA***

## **ON/OFF**

### Wall mounted Type V-Series

HSU-09C03/VA(ZXF)  
HSU-12C03/VA(ZXF)



**Большая библиотека технической документации**

<https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html>

**каталоги, инструкции, сервисные мануалы, схемы.**

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# 1 Features



O2 fresh: It can bring the fresh air in when the machine is running in O2 fresh mode.



Healthy UV ray: UV ray generator can eliminate and prevent bacteria in air effectively



DRY function: Make dehumidifying in the room when the unit is working in the "DRY" mode .



Intelligent air:With twin-blade technology ,the airflow can be adjusted not to blow directly to human body , so preventing people from the air conditioner symptom .



Photocatalyst filter: Eliminates the air of a wide variety of odor-causing substances from cigarette smoke particles to chemical vapors



Bacteria-killing medium: 3-in-1 effect:Anti-Allergen , Anti-Bactetia



3D air flow: The 3D airflow is able to deliver the airflow horizontally and vertically



Auto mode: According to the fixed temperature "26C",the unit will adjust the operation mode automatically.



Sleep mode: The setting temprature and the indoor noise can be adjusted to a more comfortable level when you set the "sleep mode"during night sleep .



24Hour timer: Use the timer function to set on,or off,or from on to off,or from off to on .



4 Fan setting: Slect the fan speed LO,MED,HI,AUTO



Easy clean design: The panel is easy to wash and the airflow vents can be detached without any special tools for quick cleaning of the inside of the air conditioner .



Left&right flow: With specialized motor and flaps,the airflow can be adjusted



Child lock: Avoid the child's wrong operation on the remote controller .



## 2.Specifications

This information was not available at the time of publication

| NOMINAL CAPACITY and NOMINAL INPUT |            |       |                   |                   |       |
|------------------------------------|------------|-------|-------------------|-------------------|-------|
| Model                              |            |       | HSU-09C03/VA(ZXF) | HSU-12C03/VA(ZXF) |       |
| NOMINAL CAPACITY(3-4)              | Cooling(1) | norm. | kw                | 2.50              | 3.50  |
|                                    | Heating(2) | norm. | kw                | -----             | ----- |
| NOMINAL INPUT                      | Cooling    | norm  | kw                | 0.84              | 1.25  |
|                                    | Heating    | norm. | kw                | -----             | ----- |
| EER                                | Cooling    |       |                   | 2.98              | 2.80  |
| COP                                | Heating    |       |                   | -----             | ----- |
| ENERGY LABEL(7-8)                  | Cooling    |       |                   | ----              | ----  |
|                                    | Heating    |       |                   | ----              | ----  |
| ANNUAL ENERGY CONSUMPTION(9)       | Cooling    |       | kwh               | 396.5             | 530   |

| TECHNICAL SPECIFICATIONS              |                                     |           |                             |                                 |                   |  |  |
|---------------------------------------|-------------------------------------|-----------|-----------------------------|---------------------------------|-------------------|--|--|
| INDOOR UNITS                          |                                     |           |                             | HSU-09C03/VA(ZXF)               | HSU-12C03/VA(ZXF) |  |  |
| DIMENSIONS                            | Unit                                | H         | mm                          | 265                             |                   |  |  |
|                                       |                                     | W         | mm                          | 795                             |                   |  |  |
|                                       |                                     | D         | mm                          | 182                             |                   |  |  |
| WEIGHT                                | Unit                                |           | kg                          | 8.9                             |                   |  |  |
| COLOR                                 | Unit                                |           |                             | white                           |                   |  |  |
| SOUND LEVEL                           | Sound pressure (cooling/heating)(5) | high      | dB(A)                       | 38                              | 44                |  |  |
|                                       |                                     | medium    | dB(A)                       | 34                              | 38                |  |  |
|                                       |                                     | low       | dB(A)                       | 30                              | 33                |  |  |
|                                       | Sound power(cooling/heating)(6)     | high      | dB(A)                       | 38                              | 44                |  |  |
| FAN                                   | Air flow rate(cooling/heating)      | high      | m <sup>3</sup> /min         | 7.8                             | 8.7               |  |  |
|                                       |                                     | low       | m <sup>3</sup> /min         | 7.0                             | 8.3               |  |  |
|                                       |                                     | super low | m <sup>3</sup> /min         | 6.2                             | 7.4               |  |  |
|                                       | Speed(cooling/heating)              | steps     |                             | 5steps,silent and auto          |                   |  |  |
|                                       |                                     | high      | rpm                         | 1200                            | 1350              |  |  |
|                                       |                                     | medium    | rpm                         | 1150                            | 1200              |  |  |
|                                       |                                     | low       | rpm                         | 1050                            | 1050              |  |  |
| Type                                  | Cross flow fan                      |           |                             |                                 |                   |  |  |
| Motor output                          |                                     |           | W                           | 16                              | 16                |  |  |
| AIR FILTER                            |                                     |           |                             | Removable/washable/mildew proof |                   |  |  |
| REMOTE CONTROLLER                     |                                     |           |                             | YL-H68EN                        |                   |  |  |
| TEMPERATURE CONTROL                   |                                     |           |                             | Microcomputer control           |                   |  |  |
| PIPING CONNECTIONS(external diameter) | liquid                              | mm        | Φ 6.35                      | Φ 6.35                          |                   |  |  |
|                                       | gas                                 | mm        | Φ 9.52                      | Φ 12.7                          |                   |  |  |
|                                       | drain                               | mm        | Φ 16                        | Φ 16                            |                   |  |  |
| INSULATION MATERIAL                   | Heat insulation type                |           |                             | both liquid and gas pipes       |                   |  |  |
| HEAT EXCHANGGER                       | TYPE                                |           | ML fin - Φ 9.52HI - XA tube |                                 |                   |  |  |
|                                       | Row x stage x fin pinth             |           | mm                          | 2 x 8 x 1.4                     |                   |  |  |

| TECHNICAL SPECIFICATIONS   |   |                   |                     |                           |                        |             |  |
|--|---|-------------------|---------------------|---------------------------|------------------------|-------------|--|
| OUTDOOR UNITS  |   |                   |                     | HSU-09C03/VA(ZXF)         | HSU-12C03/VA(ZXF)      |             |  |
| NET DIMENSIONS<br>(stop valve, and bottom support is not included) | Unit  | H                 | mm                  | 430                       |                        |             |  |
|  |   | W                 | mm                  | 695                       |                        |             |  |
|  |   | D                 | mm                  | 245                       |                        |             |  |
| WEIGHT   | Unit  |                   | kg                  | 27                        | 31                     |             |  |
| COLOR  | Unit  | white             |                     |                           |                        |             |  |
| SOUND LEVEL  | Sound pressure(cooling/heating)(5)                    | high              | dB(A)               | 48                        | 52                     |             |  |
|  | Sound power(cooling/heating)(6)                       | high              | dB(A)               | 48                        | 52                     |             |  |
| FAN  | Air flow rate(cooling/heating)                        | high              | m <sup>3</sup> /min | 22                        | 25                     |             |  |
|  |   | low               | m <sup>3</sup> /min | ---                       | ---                    |             |  |
|  | Speed(cooling/heating)                                | high              | rpm                 | 830                       | 1060                   |             |  |
|  |   | low               | rpm                 | ---                       | ---                    |             |  |
|  | Type  | Propeller fan     |                     |                           |                        |             |  |
|  | Motor output  |                   | W                   | 80                        | 80                     |             |  |
| REFRIGERANT CIRCUIT  | Refrigerant type                                      | R22               |                     |                           |                        |             |  |
|  | Refrigerant charge                                    |                   | kg                  | 0.60                      | 0.84                   |             |  |
|  | Maximum allowable distance between indoor and outdoor |                   | m                   | 7                         |                        |             |  |
|  | Maximum allowable level difference                    |                   | m                   | 5                         |                        |             |  |
|  | Refrigerant control                                   | -----             |                     |                           |                        |             |  |
| COMPRESSOR   | Type  | rotary Compressor |                     |                           |                        |             |  |
|  | Model   |                   |                     | 2P16S225ANC               | PH225X2C-8FTC          |             |  |
|  | Motor output  |                   | w                   | 780                       | 1020                   |             |  |
|  | Oil type  |                   |                     |                           | DIAMOND MS-56          | SUNISO 4GSI |  |
|  | Oil charge volume                                     |                   | L                   | 0.27                      | 0.52                   |             |  |
| PIPING CONNECTIONS   | liquid  |                   | mm                  | Φ 6.35                    |                        |             |  |
|  | gas   |                   | mm                  | Φ 9.52/Φ 12.7             |                        |             |  |
|  | drain   |                   | mm                  | Φ 18                      |                        |             |  |
| INSULATION MATERIAL  | Heat insulation type                                  |                   |                     | both liquid and gas pipes |                        |             |  |
| HEAT EXCHANGGER  | TYPE  |                   |                     |                           | ML - Φ 9.52HI - XAbube |             |  |
|  | Row x stage x fin pinth                               |                   | mm                  | 2 x 8 x 1.4               |                        |             |  |

| ELECTRICAL SPECIFICATIONS |                         |         |   |                   |                   |  |
|---------------------------|-------------------------|---------|---|-------------------|-------------------|--|
| For indoor units only:    |                         |         |   | HSU-09C03/VA(ZXF) | HSU-12C03/VA(ZXF) |  |
| CURRENT                   | Nominal running current | cooling | A | 0.15              | 0.15              |  |
|                           |                         | heating | A | -----             | -----             |  |
|                           | Maximum running current | cooling | A | 0.15              | 0.15              |  |
|                           |                         | heating | A | -----             | -----             |  |

| For combination indoor units+ outdoor units: |                         |         |   | HSU-09C03/VA(ZXF) | HSU-12C03/VA(ZXF) |
|--|-------------------------|---------|---|-------------------|-------------------|
| CURRENT                                      | Nominal running current | cooling | A | 3.9               | 5.8               |
|  |                         | heating | A | -----             | -----             |
|  | Maximum running current | cooling | A | 5.6               | 8.5               |
|  |                         | heating | A | -----             | -----             |
|  | Starting current        | cooling | A | 30                | 42                |
|  |                         | heating | A | -----             | -----             |

| For indoor units only:              |           |    |  | HSU-09C03/VA(ZXF) | HSU-12C03/VA(ZXF) |
|-------------------------------------|-----------|----|--|-------------------|-------------------|
| POWER SUPPLY                        |           |    |  | VM                | VM                |
| NOMINAL DISTRIBUTION SYSTEM VOLTAGE | Phase     |    |  | 1PH               | 1PH               |
|                                     | Frequency | Hz |  | 50                | 50                |
|                                     | Voltage   | V  |  | 220V~             | 220V~             |

## NOTES

- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB \* outdoor temperature 35°CDB \* refrigerant piping length: 5m \* level difference: 0m.
- 2 Nominal heating capacities are based on: indoor temperature 20°CDB \* outdoor temperature 7°CDB/6°CWB \* refrigerant piping length 5m (horizontal) \* level difference 0m.
- 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 4 Units should be selected on nominal capacity. Maximum capacity is limited to peak periods.
- 5 The sound pressure level is measured via a microphone at a certain distance from the unit. For measuring conditions: please refer to item 6 of this chapter.
- 6 The sound power level is an absolute value indicating the "power" which a sound source generates.
- 7 Energy label: scale from A (most efficient) to G (less efficient).
- 8 The energy label Directive 2002/31/EC will enter into force once the relevant measurement standard will be published in the European official Standard.
- 9 Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)

### 3 Remote controller lists

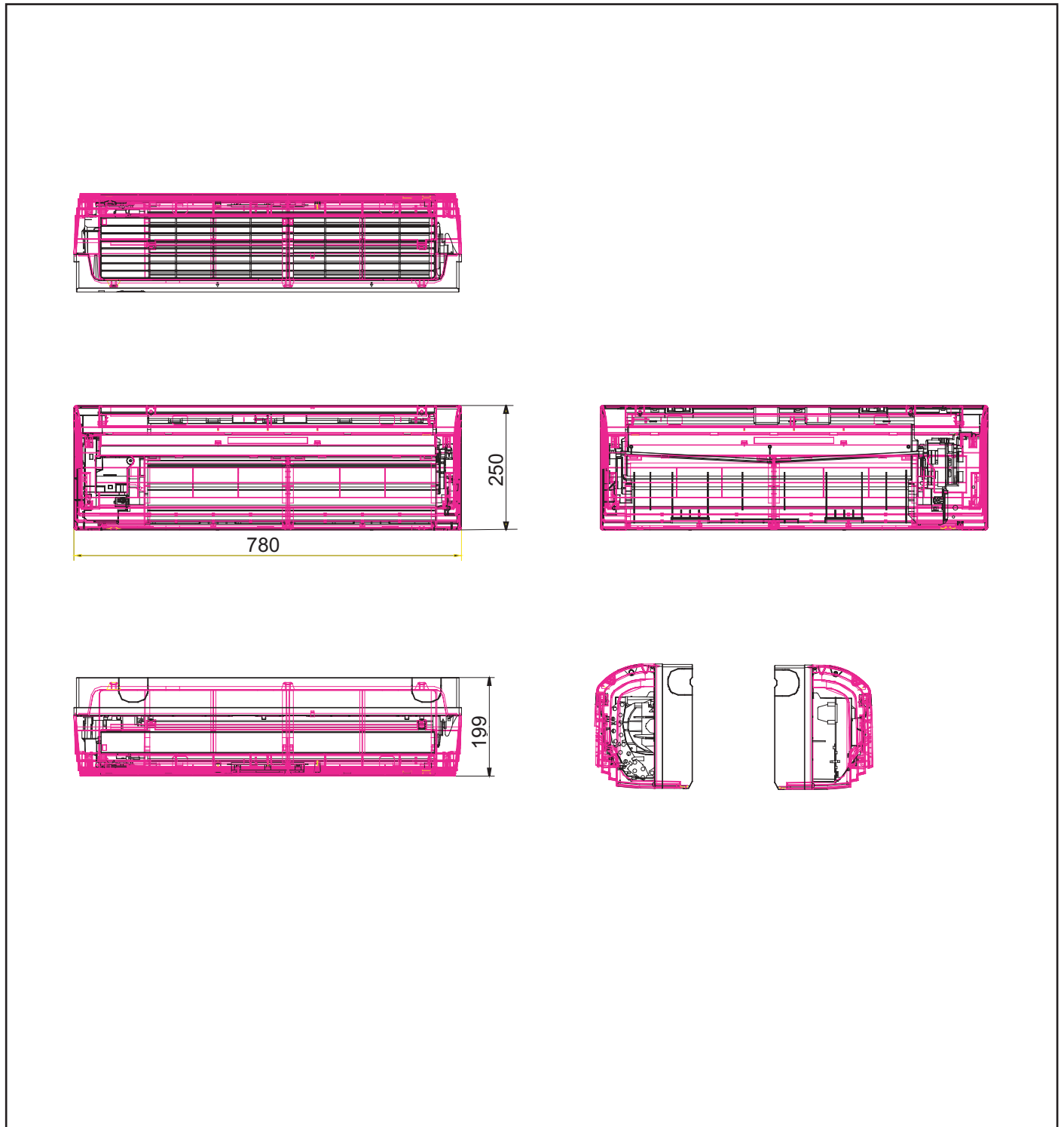
| Model  | HSU-09C03/VA(ZXF) | HSU-12C03/VA(ZXF) |
|--------|-------------------|-------------------|
| YL-H68 | Y                 | Y                 |
| -----  | ---               | ---               |

### 4 Sensors lists

| INDOOR UNIT |   |     |
|-------------|---|-----|
| type        | Description                                       | Qty |
| Room sensor | It's used for detecting room temperature          | 1   |
| Pipe sensor | It's used for detecting temperature of evaporator | 1   |

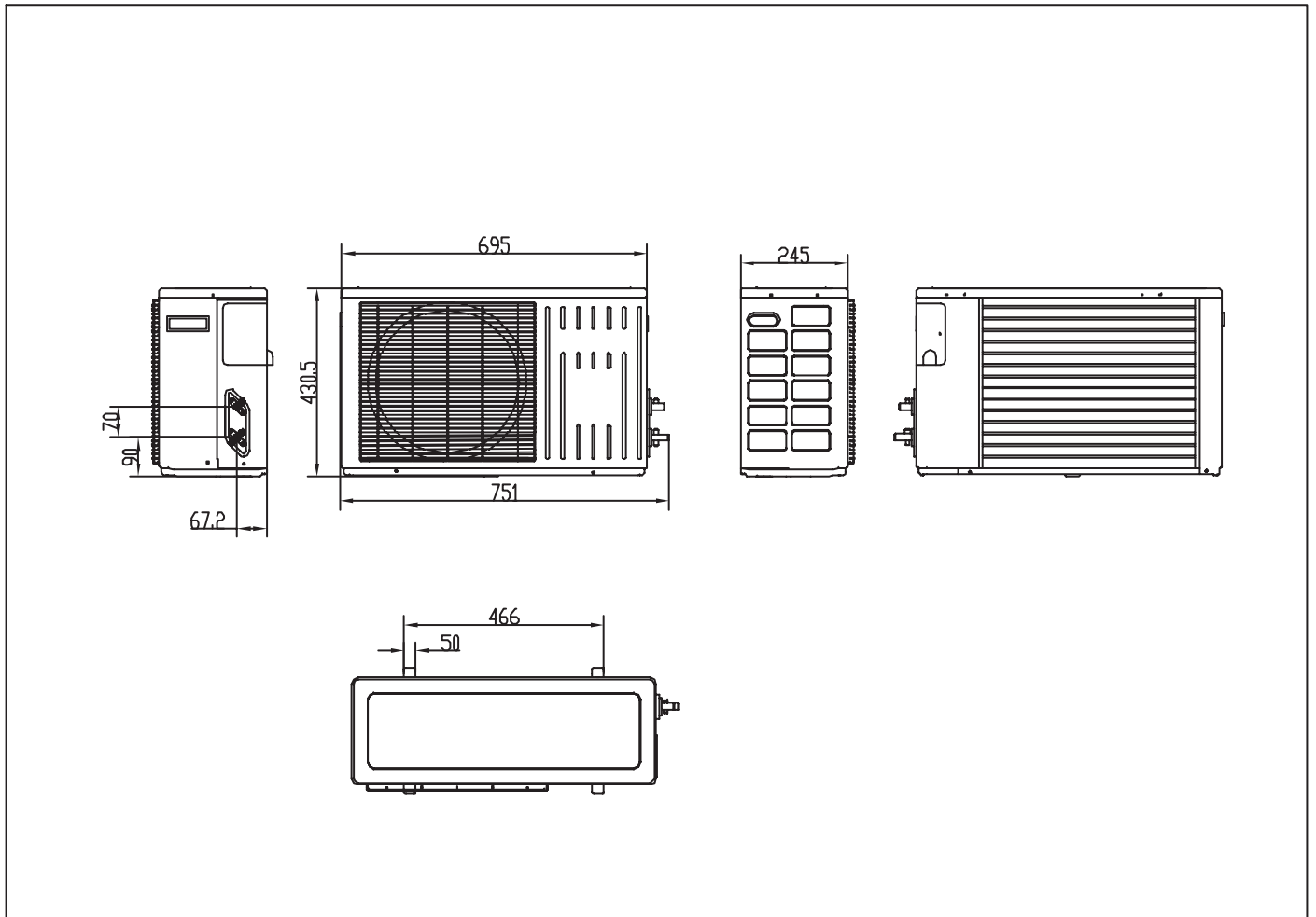
## 5 Dimensional drawings

### Indoor unit





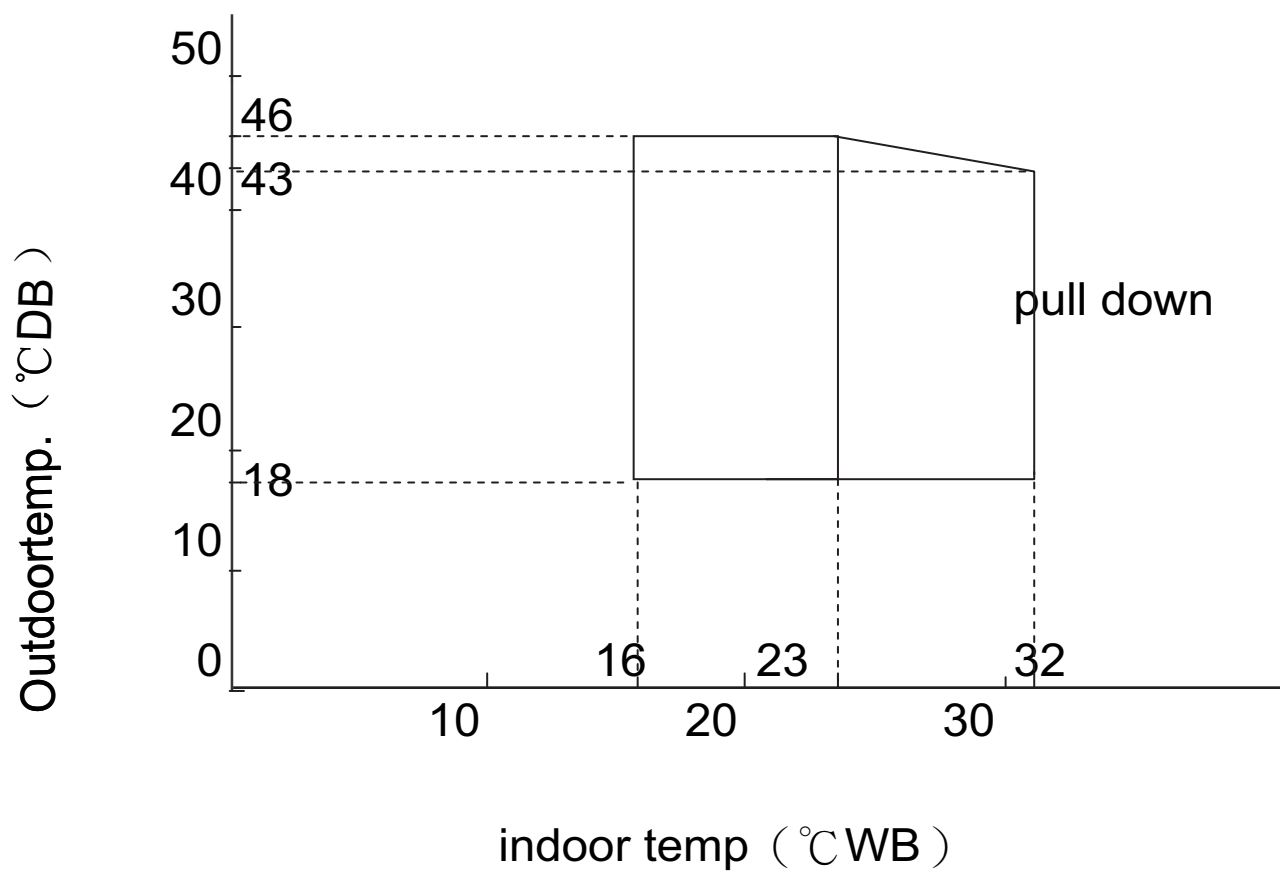
## Outdoor unit



## 6 Operation range

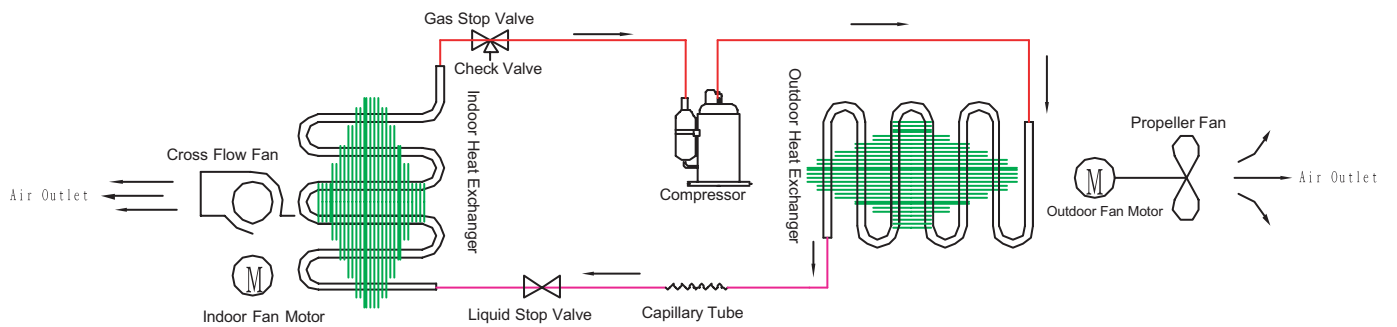
The name of parts

Cooling

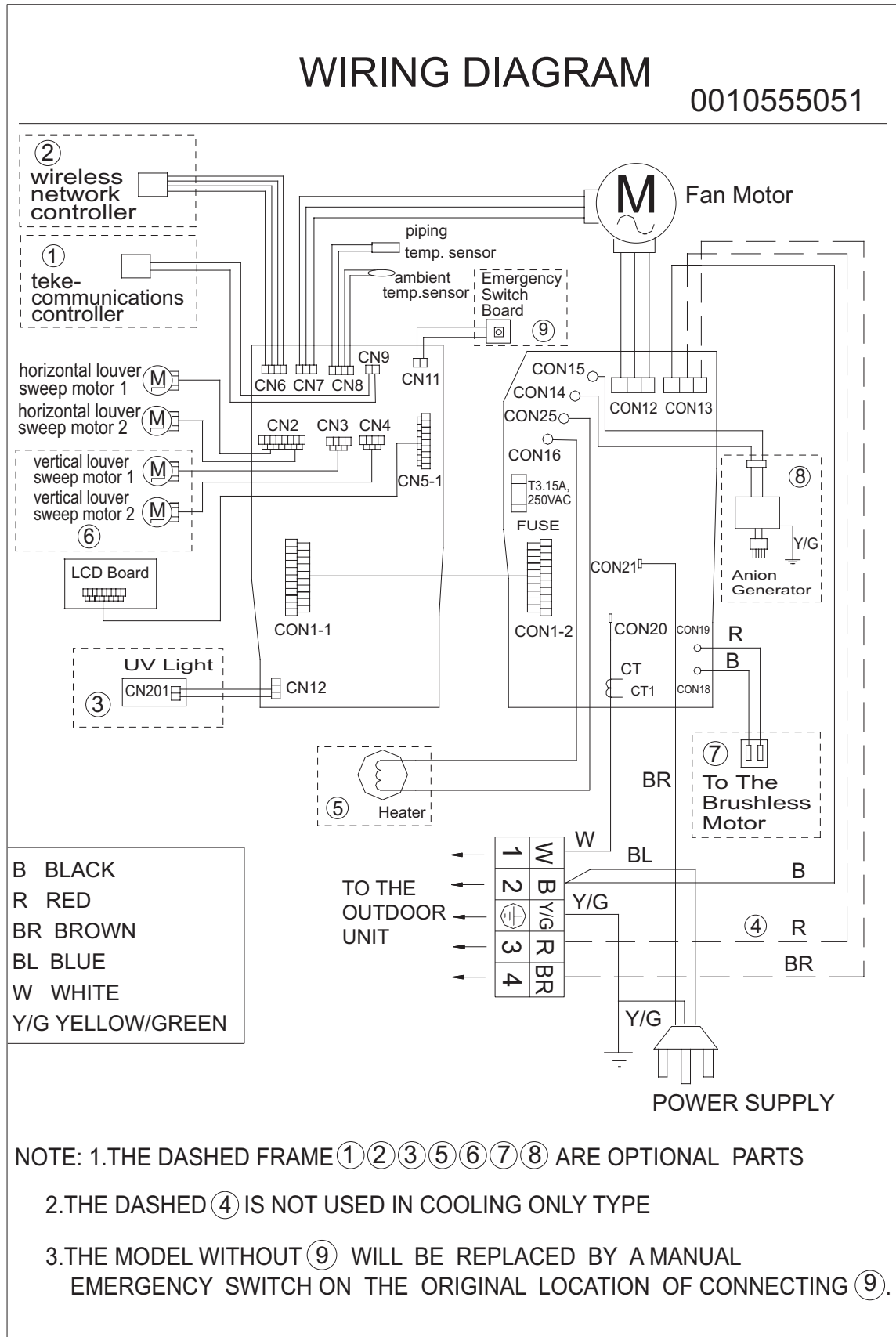


## 7 Piping diagrams

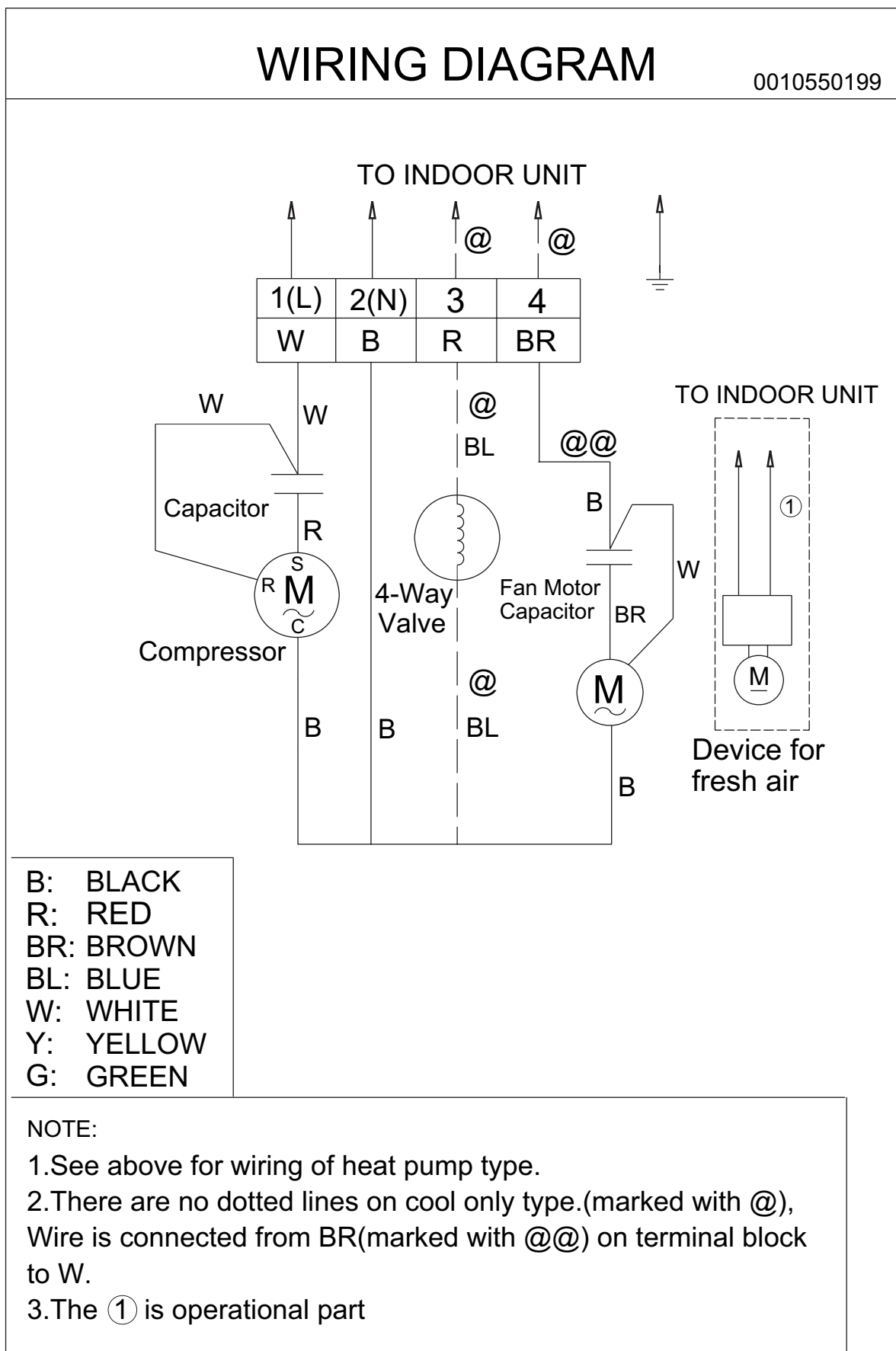
### Cooling mode



## 8 Wiring diagrams

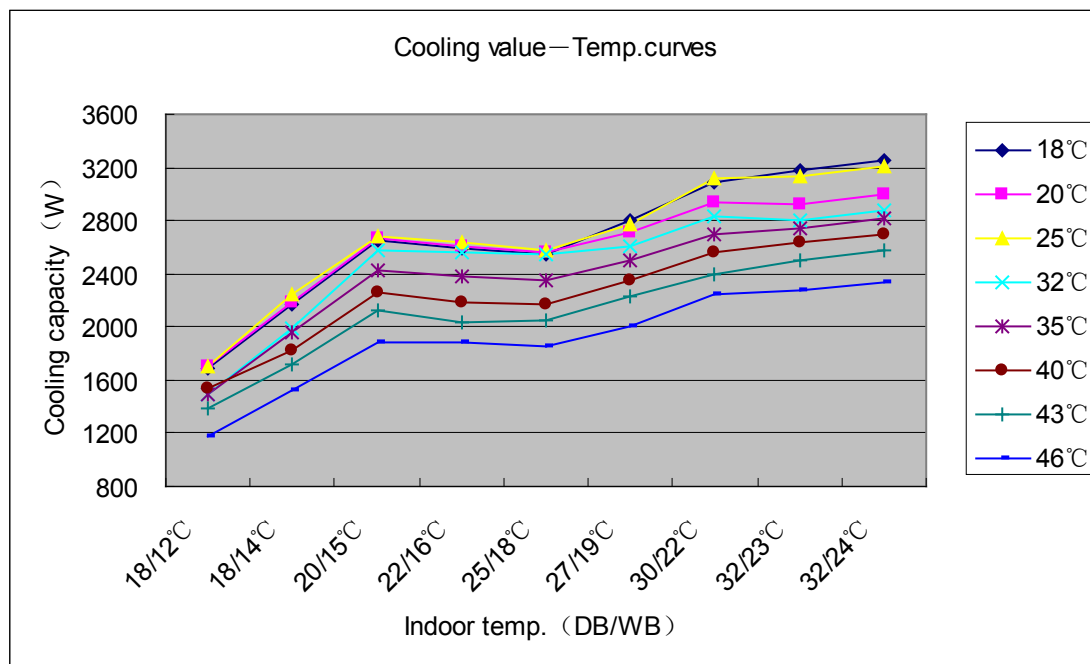


## Outdoor unit

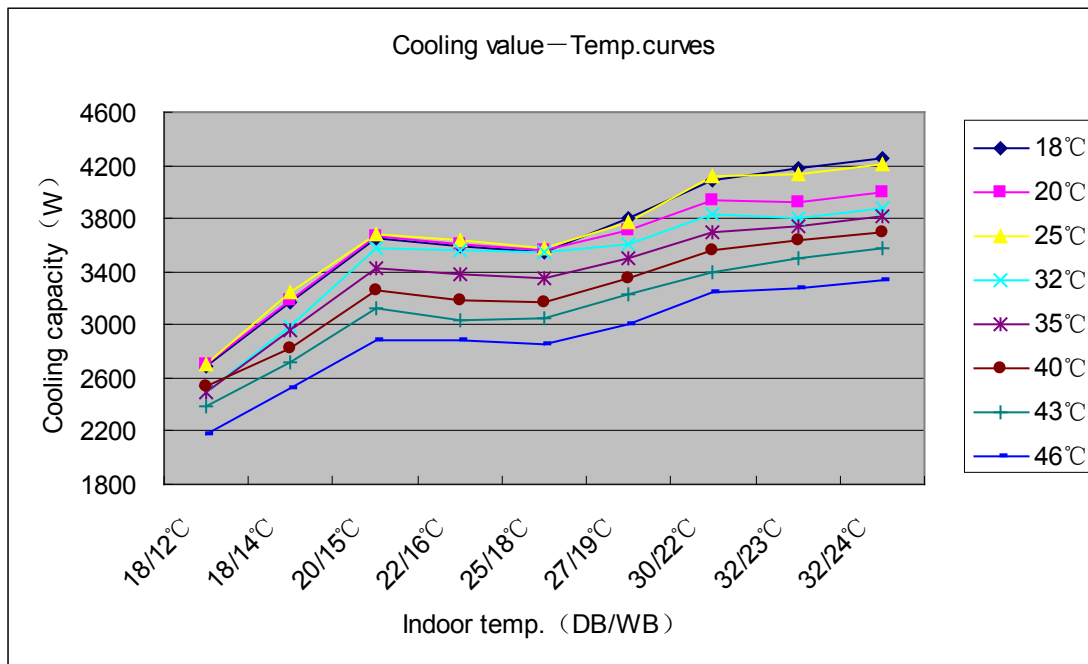


## 9 Capacity tables and curves diagrams

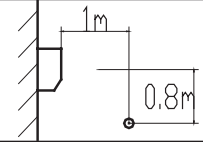
| HSU-09C03/VA(ZXF) performance curves |                             |      |      |      |      |      |      |      |
|--------------------------------------|-----------------------------|------|------|------|------|------|------|------|
| cooling value-temperature talbe      |                             |      |      |      |      |      |      |      |
| indoor temp                          | outdoor temp.(humidity 46%) |      |      |      |      |      |      |      |
| DB/WB                                | 18°C                        | 20°C | 25°C | 32°C | 35°C | 40°C | 43°C | 46°C |
| 18/12°C                              | 1686                        | 1697 | 1707 | 1486 | 1496 | 1539 | 1389 | 1173 |
| 18/14°C                              | 2169                        | 2180 | 2247 | 1995 | 1958 | 1828 | 1716 | 1530 |
| 20/15°C                              | 2651                        | 2664 | 2677 | 2582 | 2420 | 2259 | 2123 | 1887 |
| 22/16°C                              | 2597                        | 2613 | 2630 | 2562 | 2387 | 2181 | 2042 | 1877 |
| 25/18°C                              | 2544                        | 2563 | 2582 | 2541 | 2354 | 2168 | 2045 | 1849 |
| 27/19°C                              | 2805                        | 2715 | 2765 | 2602 | 2500 | 2349 | 2226 | 2002 |
| 30/22°C                              | 3082                        | 2934 | 3122 | 2828 | 2698 | 2568 | 2396 | 2249 |
| 32/23°C                              | 3182                        | 2918 | 3128 | 2799 | 2742 | 2633 | 2505 | 2277 |
| 32/24°C                              | 3261                        | 2992 | 3206 | 2871 | 2813 | 2701 | 2570 | 2340 |



| HSU-12C03/VA(ZXF) performance curves |                             |       |       |       |       |       |       |       |
|--------------------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| cooling value-temperature talbe      |                             |       |       |       |       |       |       |       |
| indoor temp                          | outdoor temp.(humidity 46%) |       |       |       |       |       |       |       |
| DB/WB                                | 18 °C                       | 20 °C | 25 °C | 32 °C | 35 °C | 40 °C | 43 °C | 46 °C |
| 18/12 °C                             | 2686                        | 2697  | 2707  | 2486  | 2496  | 2539  | 2389  | 2173  |
| 18/14 °C                             | 3169                        | 3180  | 3247  | 2995  | 2958  | 2828  | 2716  | 2530  |
| 20/15 °C                             | 3651                        | 3664  | 3677  | 3582  | 3420  | 3259  | 3123  | 2887  |
| 22/16 °C                             | 3597                        | 3613  | 3630  | 3562  | 3387  | 3181  | 3042  | 2877  |
| 25/18 °C                             | 3544                        | 3563  | 3582  | 3541  | 3354  | 3168  | 3045  | 2849  |
| 27/19 °C                             | 3805                        | 3715  | 3765  | 3602  | 3500  | 3349  | 3226  | 3002  |
| 30/22 °C                             | 4082                        | 3934  | 4122  | 3828  | 3698  | 3568  | 3396  | 3249  |
| 32/23 °C                             | 4182                        | 3918  | 4128  | 3799  | 3742  | 3633  | 3505  | 3277  |
| 32/24 °C                             | 4261                        | 3992  | 4206  | 3871  | 3813  | 3701  | 3570  | 3340  |



# 10 Sound level

| Model             | Sound pressure level |    |    | Measuring location<br>Location of microphone<br> | sound power level |
|-------------------|----------------------|----|----|---|-------------------|
|                   | 220 ~ V,50Hz         |    |    |   |                   |
|                   | Cooling              |    |    |   |                   |
|                   | H                    | L  | SL |   |                   |
| HSU-09C03/VA(ZXF) | 38                   | 34 | 30 |   | 38                |
| HSU-12C03/VA(ZXF) | 44                   | 38 | 33 |   | 44                |

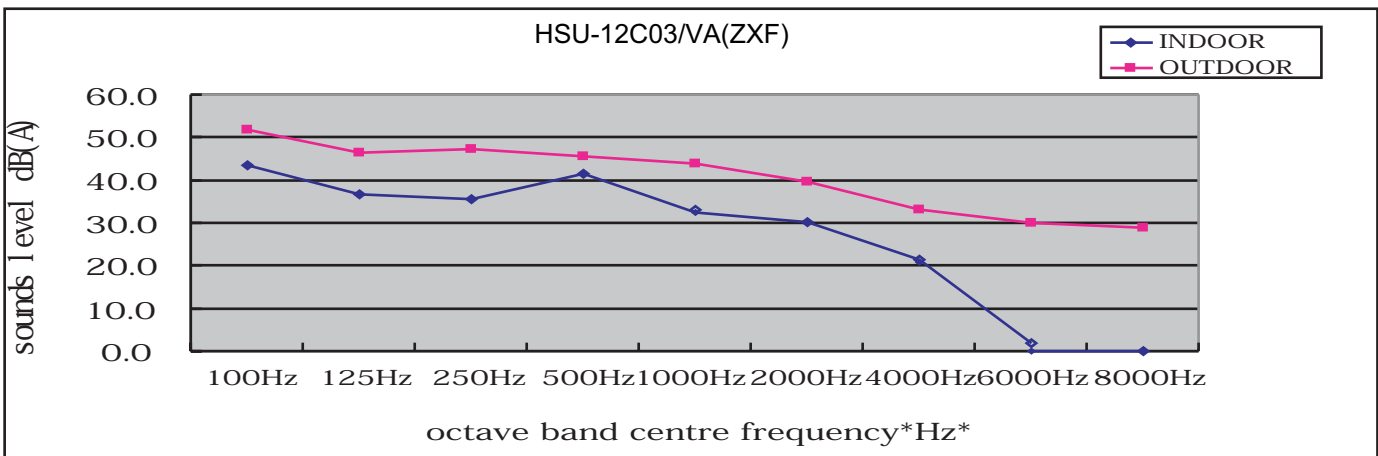
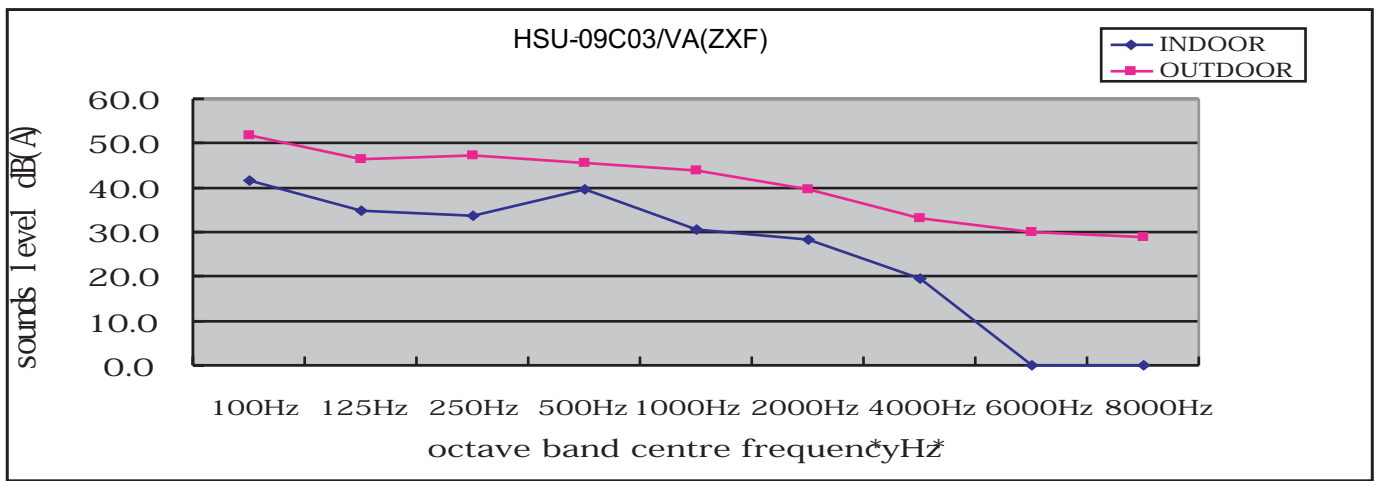
## Sound level data

| HSU-09C03/VA(ZXF) | 100Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 6000Hz | 8000Hz |
|-------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| INDOOR            | 41.7  | 34.7  | 33.6  | 32.6  | 30.5   | 28.2   | 19.7   | 0.0    | 0.0    |
| OUTDOOR           | 51.7  | 46.5  | 47.2  | 45.6  | 43.9   | 39.7   | 33.0   | 29.9   | 28.9   |

| HSU-12C03/VA(ZXF) | 100Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 6000Hz | 8000Hz |
|-------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| INDOOR            | 42.4  | 35.2  | 34.6  | 33.6  | 31.4   | 29.1   | 20.1   | 0.0    | 0.0    |
| OUTDOOR           | 52.7  | 49.7  | 48.2  | 46.3  | 44.2   | 40.1   | 35.0   | 30.2   | 29.9   |

## Sound pressure spectrum

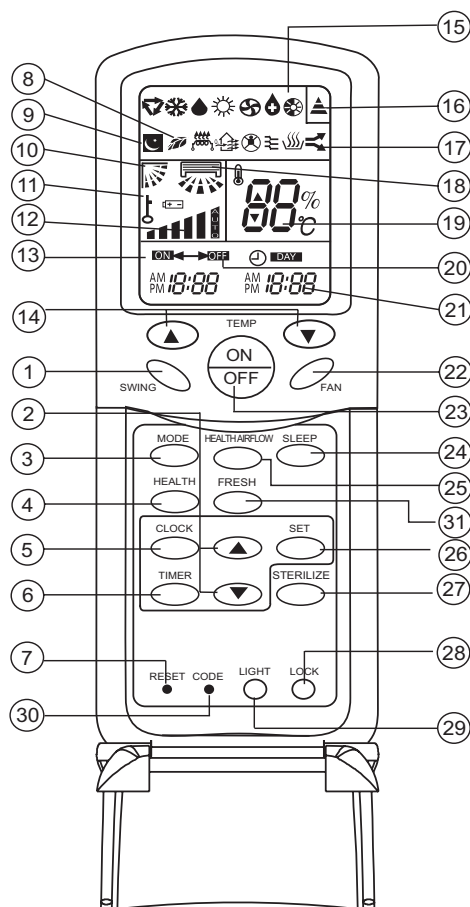




# 11 Accessories

| Standard name                  | HSU-09C03/VA(ZXF) | HSU-12C03/VA(ZXF) |
|--------------------------------|-------------------|-------------------|
| Drain hose                     | 1                 | 1                 |
| Plastic bag                    | 1                 | 1                 |
| screw assembly                 | 1                 | 1                 |
| Air purifier                   | 2                 | 2                 |
| Change for fresh airtube(suit) | 1                 | 1                 |
| Mounting plate                 | 1                 | 1                 |
| Remote controller              | 1                 | 1                 |
| Installation manual            | 1                 | 1                 |
| Operation manual               | 1                 | 1                 |
| Change for fresh air box       | 1                 | 1                 |

## 12 Control systems



1. SWING button  
Used to select up or down air sending direction.
2. HOUR button  
Used to set clock and timer setting.
3. MODE button  
Used to select operation mode. AUTO, COOL, DRY, FAN.
4. HEALTH button  
Used to set healthy operation.
5. CLOCK button  
Used to set correct time.
6. TIMER button  
Used to select TIMER ON, TIMER OFF, TIMER ON-OFF.
7. RESET  
When the remote controller appears abnormal, use a sharp pointed article to press this button to reset the remote controller normal
8. HEALTH display
9. SLEEP display
10. SWING UP/DOWN display

NOTE: (1)The following functions and related displays are not available (18), (29), (30) and (31) .  
(2) Cooling only unit do not have functions and displays related with heating.

11. LOCK display
12. FAN SPEED display



13. TIMER ON display
14. TEMP button

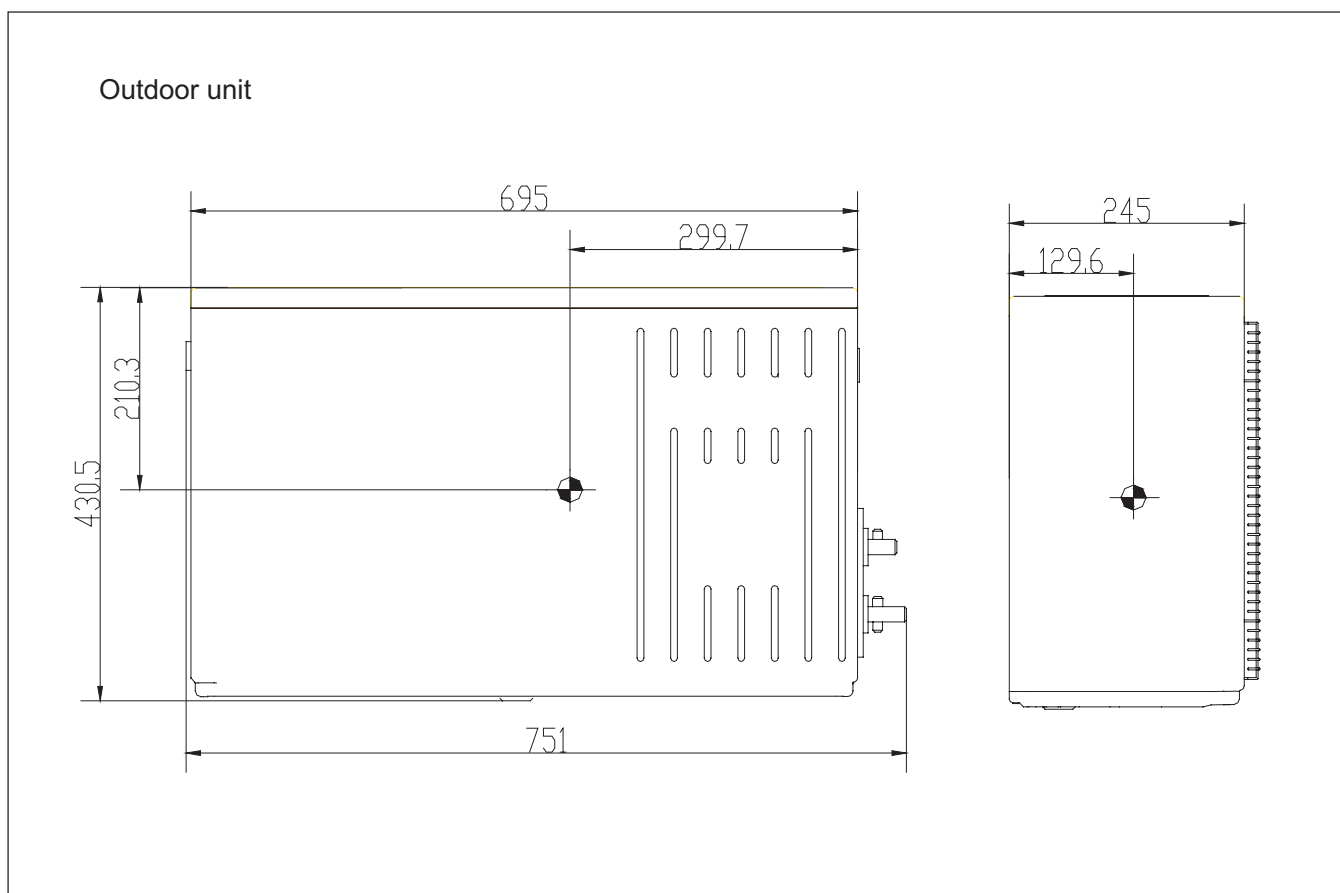
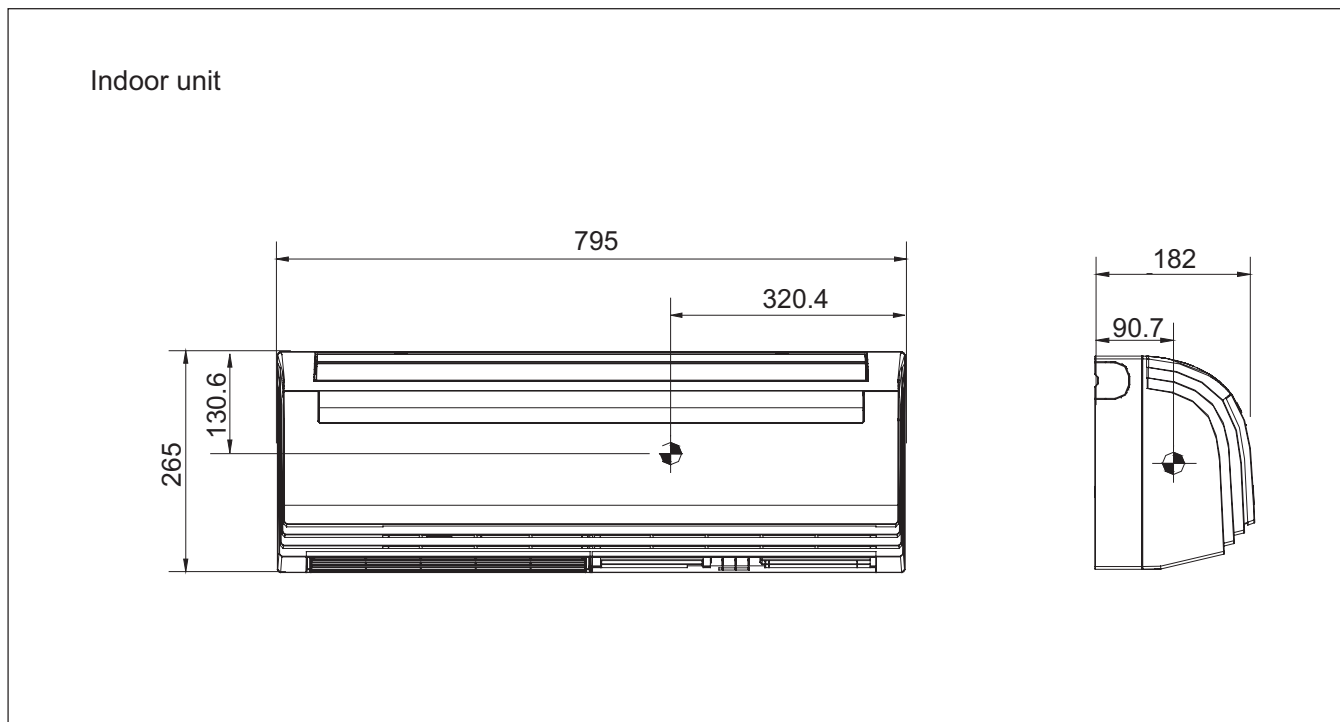
Used to select your desired temperature.

15. Operation mode display

|                   |      |      |     |     |
|-------------------|------|------|-----|-----|
| Operation mode    | AUTO | COOL | DRY | FAN |
| Remote controller |      |      |     |     |

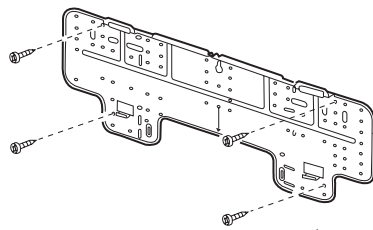
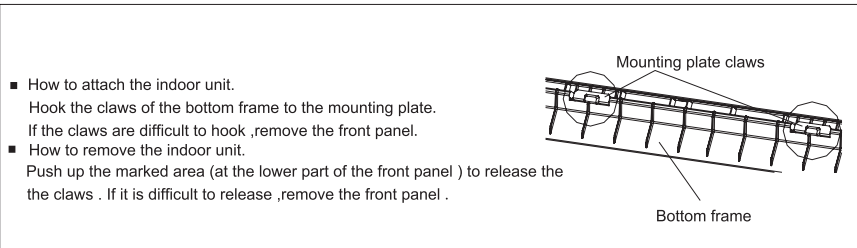
16. Signal sending display
17. UV light degerming function display
18. Left/right air flow display
19. TEMP display  
Remote controller: to display the TEMP. setting.
20. TIMER OFF display
21. CLOCK display
22. FAN button  
Used to select fan speed: LOW, MED, HI, AUTO
23. ON/OFF button  
Used for unit start and stop.
24. SLEEP button  
Used to select sleep mode.
25. HEALTH AIRFLOW button  
Used to set the healthy airflow mode.
26. SET button  
Used to confirm timer and clock settings.
27. STERILIZE button  
Use to set UV light degerming function
28. LOCK  
Used to lock buttons and LCD display. If pressed, the other buttons will be disabled and the lock condition display appears. Press it once again, lock will be canceled and lock condition display disappears.
29. LIGHT button  
Colorful display bar of the controlling indoor machine is on and extinguished.
30. CODE  
Used to select CODE A or B with a press, A or B will be displayed on LCD. Please select A without special explanation.
31. FRESH button  
Used to set FRESH AIR operation.

## 13 Center of gravity

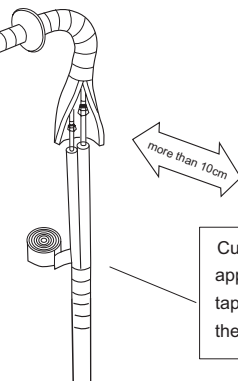
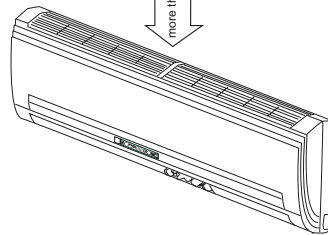
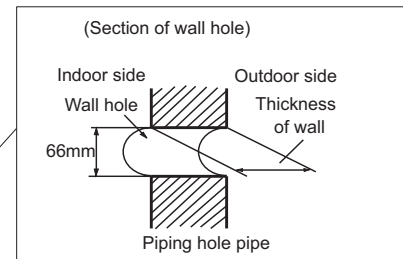
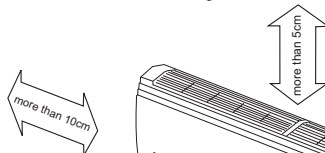


# 14 Installations

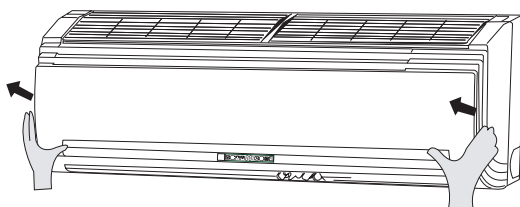
## Indoor unit installation drawings



The mounting plate should be installed on a wall which can support the weight of the indoor unit.



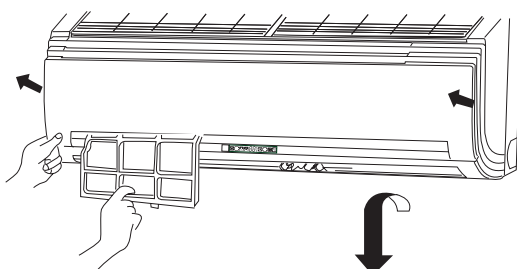
Cut thermal insulation pipe to an appropriate length and wrap it with tape, making sure that no gap is left in the insulation pipe's cut line .



### How to remove the air filter.

Open the inlet grille by pulling it upward.

Push up the filter's center tab slightly until it is released from the stopper, and remove the filter downward.



### How to Attach the air filter.

Attach the filter correctly so that the "FRONT" indication is facing to the front. Make sure that the filter is completely fixed behind the stopper. If the right and left filters are not attached correctly, that may cause defects.

Close the inlet grille.

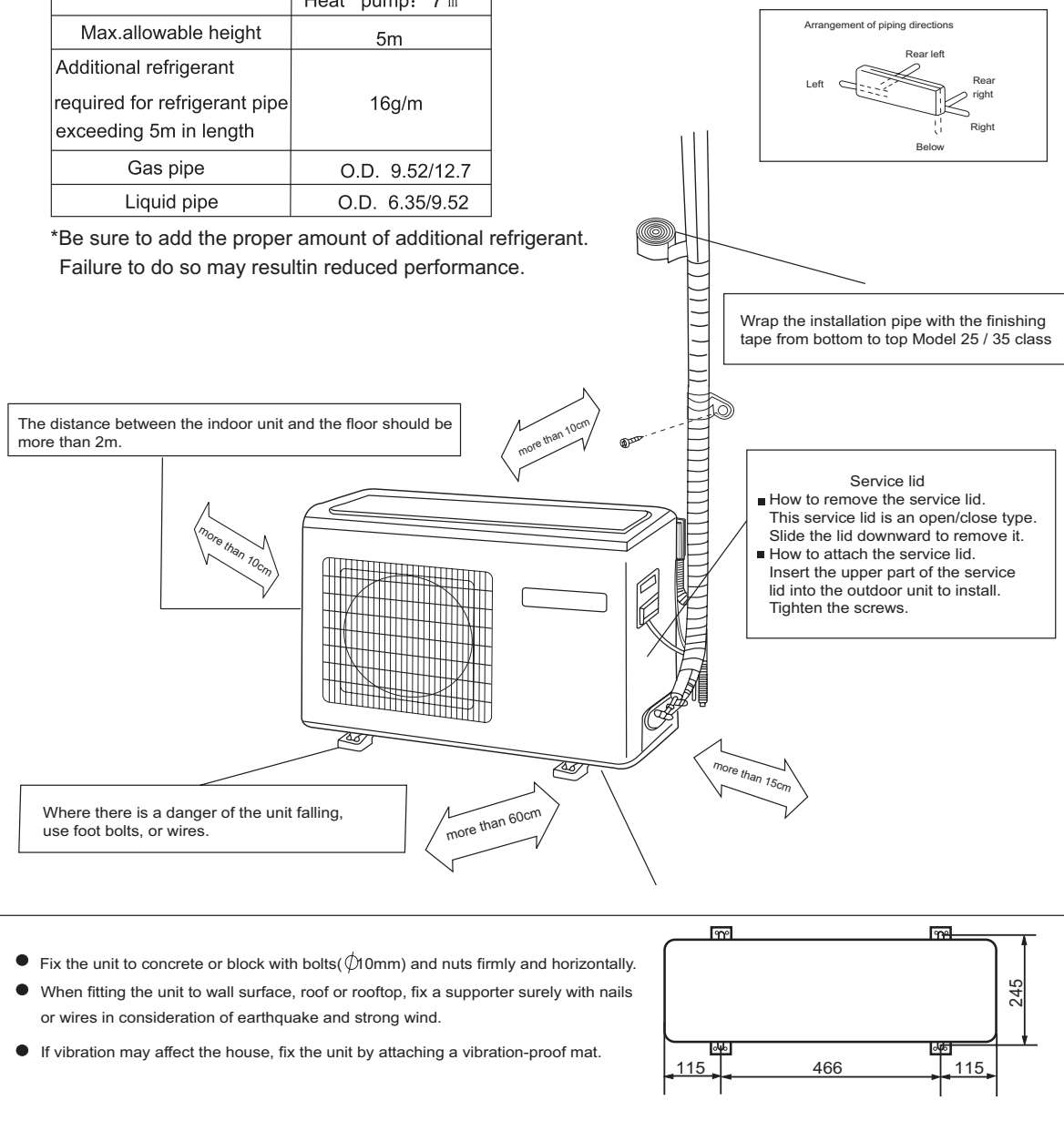
## Outdoor unit installation drawings

### HSU-09,12C03/VA(ZXF)

#### Outdoor

|   |                                     |
|---|-------------------------------------|
| Model   | 26/28 class                         |
| Max.allowable length  | Cooling only: 7 m<br>Heat pump: 7 m |
| Max.allowable height  | 5m                                  |
| Additional refrigerant required for refrigerant pipe exceeding 5m in length | 16g/m                               |
| Gas pipe  | O.D. 9.52/12.7                      |
| Liquid pipe   | O.D. 6.35/9.52                      |

\*Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.



# Sincere Forever



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