Haier
Inspired living

Domestic
Air conditioner

# TECHNICAL DATA

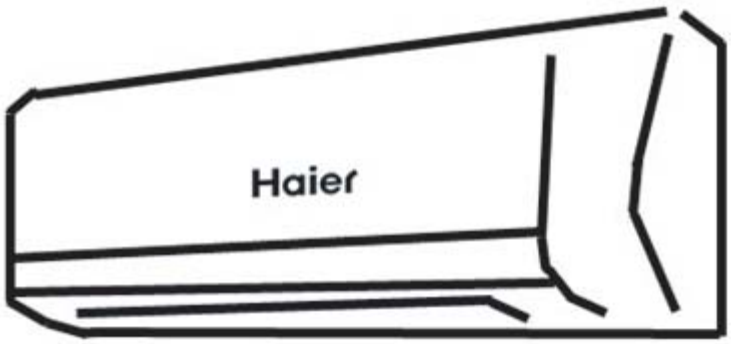
## ON/OFF

### Wall mounted Type U-Series

HSU-09H03/U(ZXF)
HSU-12H03/U(ZXF)

## 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.



**Большая библиотека технической документации**
**http://splitoff.ru/tehn-doc.html**
**каталоги, инструкции, сервисные мануалы, схемы.**

# Table of Contents

1. Features……2

2. Specifications……3

3. Remote controller lists……6

4. Sensors lists……6

5. Dimensional drawings……7

6. Operation range……9

7. Piping diagrams……10

8. Wiring diagrams……11

9. Capacity diagrams and curves diagrams……13

10. Sound level……17

11. Accessories……19

12. Control systems……20

13. Center of gravity……21

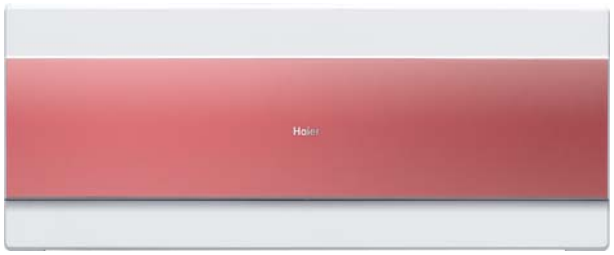
14. Installations……22



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 1 Features

- Healthy negative ion: make your room full of an abundance natural negative ions
- Left&right flow: With specialized motor and flaps,the airflow can be adjusted
- DRY function: Make dehumidifying in the room when the unit is working in the "DRY" mode .
- Child lock: Avoid the child's wrong operation on the remote controller
- Healthy UV ray: UV ray generator can eliminate and prevent bacteria in air effectively
- 24 Hour timer: Use the timer function to set on,or off,or from on to off,or from off to on
- Auto restart: The function permits automatic return to previous peration conditions
- 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
- Intelligent air: With twin-blade technology ,the airflow can be adjusted not to blow directly to human body,so preventing people from the air condintioner sympton
- Bacteria-killing medium: 3-in-1 effect:Anti-Allergen , Anti-Bactetia
- 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
- $O_2$ refresh: This exclusive technology can bring fresh air in and take unpleasant air out but without tempreture and humidity loss
- 4 Fan setting: Slect the fan speed LO,MED,HI,AUTO
- Entire auto mode: You can set a tempreture value,with which the unit can be adjusted theoperation mode automatically
- Photocatalyst filter: Eliminiates the air of a wide variety of odor-causing substances from cigarette smoke particles to chemical vapors



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# 2 Specifications

This information was not available at the time of publication .

| NOMINAL CAPACITY and NOMINAL INPUT | | | | | |
|---|---|---|---|---|---|
| For indoor units only: | | | | | |
| INDOOR UNITS | | | | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
| NOMINAL INPUT | Cooling | nominal | kW | 0.1 | 0.1 |
| | Heating | nominal | kW | 0.1 | 0.1 |

| NOMINALCAPACITY and | | | | | |
|---|---|---|---|---|---|
| Model | | | | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
| NORMINAL CAPACITY(3-4) | Cooling(1) | norm. | kw | 2.70 | 3.45 |
| | Heating(2) | norm. | kw | 3.00 | 3.80 |
| NORMINAL INPUT | Cooling | norm | kw | 0.80 | 1.02 |
| | Heating | norm. | kw | 0.855 | 1.20 |
| EER | Cooling | | | 2.77 | 2.80 |
| COP | Heating | | | 3.38 | 3.38 |
| ENERGY LABEL(7-8) | Cooling | | | ---- | ---- |
| | Heating | | | ---- | ---- |
| ANNUAL ENERGY CONSUMPTION(9) | Cooling | | kwh | 420 | 525 |

| TECHNICAL SPECIFICATIONS | | | | | | |
|---|---|---|---|---|---|---|
| INDOOR UNITS | | | | | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
| DIMENSIONS | Unit | | H | mm | 285 | |
| | | | W | mm | 850 | |
| | | | D | mm | 160 | |
| WEIGHT | Unit | | | kg | 10.8 | |
| COLOR | Unit | | | | white | |
| SOUND LEVEL | Sound pressure (cooling/heating)(5) | | high | dB(A) | 39 | 39 |
| | | | medium | dB(A) | 35 | 35 |
| | | | low | dB(A) | 29 | 29 |
| | Sound power(cooling/heating)(6) | | high | dB(A) | 39 | 39 |
| FAN | Air flow rate(cooling/heating) | | high | $m^3$/min | 7.7(9.0) | 7.7(9.0) |
| | | | low | $m^3$/min | 6.1(7.0) | 6.1(7.0) |
| | | | super low | $m^3$/min | 5.1(6.2) | 5.1(6.2) |
| | Speed(cooling/heating) | | steps | | 5steps,silent and auto | |
| | | | high | rpm | 1200 | 1350 |
| | | | medium | rpm | 1125 | 1150 |
| | | | low | rpm | 950 | 950 |
| | Type | | | | Cross flow fan | |
| | Motor output | | | W | 16 | 16 |
| AIR FILTER | | | | | Removable/washable/mildew proof | |
| REMOTE CONTROLLER | | | | | YL-H76EN | |
| TEMPERATURE CONTROL | | | | | Microcomputer control | |
| PIPING CONNECTIONS(external diameter) | | | liquid | mm | Φ6.35 | Φ6.35 |
| | | | gas | mm | Φ9.52 | Φ12.7 |
| | | | drain | mm | Φ16 | Φ16 |
| INSULATION MATERIAL | Heat insulation type | | | | both liquid and gas pipes | |
| HEAT EXCHANGGER | TYPE | | | | ML fin - Φ9.52HI - XA tube | |
| | Row x stage x fin pinth | | | mm | 2 x 8 x1.4 | |



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

| TECHNICAL SPECIFICATIONS | | | | | | |
|---|---|---|---|---|---|---|
| **OUTDOOR UNITS** | | | | | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
| NET DIMENSIONS (stop valve, and bottom support is not included) | Unit | H | mm | | 540 | |
| | | W | mm | | 780 | |
| | | D | mm | | 245 | |
| WEIGHT | Unit | | kg | | 33 | 43 |
| COLOR | Unit | | | | white | |
| SOUND LEVEL | Sound pressure(cooling/heating)(5) | high | dB(A) | | 55 | 55 |
| | Sound power(cooling/heating)(6) | high | dB(A) | | ---------- | -------- |
| FAN | Air flow rate(cooling/heating) | high | $m^3$/min | | 25.3(22.8) | 25.3(22.8) |
| | | low | $m^3$/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 | | 1.00 | 1.20 |
| | Maximum allowable distance between indoor and outdoor | | m | | 7 | |
| | Maximum allowable level difference | | m | | 5 | |
| | Refrigerant control | | | | ---------- | |
| COMPRESSOR | Type | | | | rotary Compressor | |
| | Model | | | | 2P17S225ANA | PH200X2C-8FTC1 |
| | Motor output | | w | | 790 | 970 |
| | Oil type | | | | SUNISO 4GSI | 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 x1.4 | |

| ELECTRICAL SPECIFICATIONS | | | | | |
|---|---|---|---|---|---|
| For indoor units only: | | | | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
| CURRENT | Nominal running current | cooling | A | 0.15 | 0.15 |
| | | heating | A | 0.15 | 0.15 |
| | Maximum running current | cooling | A | 0.15 | 0.15 |
| | | heating | A | 0.15 | 0.15 |



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

| For combination indoor units+ outdoor units: | | | | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
|---|---|---|---|---|---|
| CURRENT | Nominal running current | cooling | A | 3.52 | 4.5 |
| | | heating | A | 3.82 | 5.4 |
| | Maximum running current | cooling | A | 7.8 | 7.8 |
| | | heating | A | 7.8 | 7.8 |
| | Starting current | cooling | A | 32 | 45 |
| | | heating | A | 32 | 45 |

| For indoor units only: | | | HSU-09H03/U(ZXF) | HSU-12H03/U(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)


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 3 Remote controller lists

| Model | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
|---|---|---|
| YR-H76 | Y | Y |
| YR-U01 | Y | Y |

# 4 Sensors lists

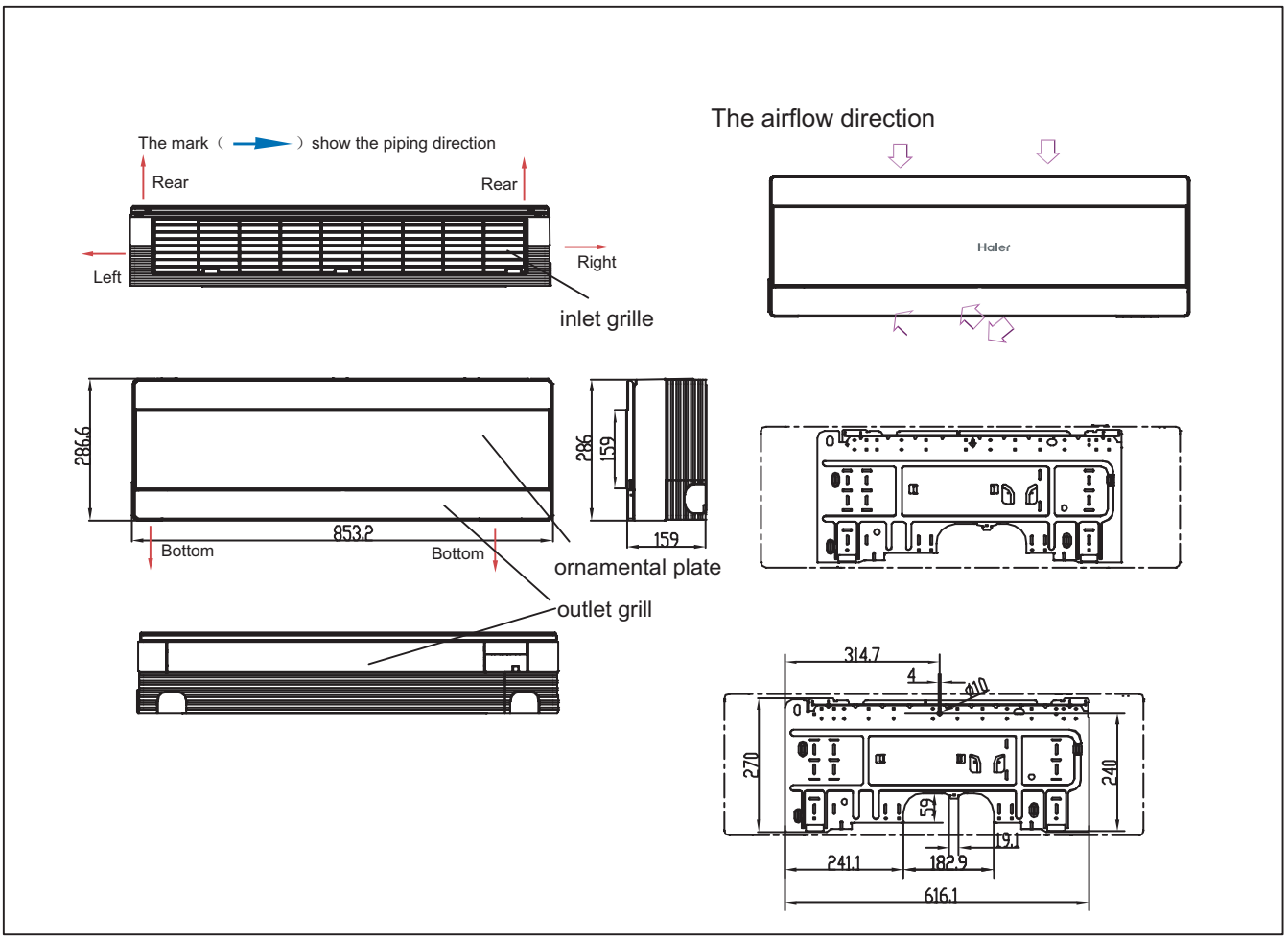
| INDOOR UNIT | | |
|---|---|---|
| type | Description | Qty |
| Room sensor | It's used for detecting room temperature | 1 |
| Pipe sensor | It's used for detecting temperature of evaporator | 1 |



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 5 Dimensional drawings

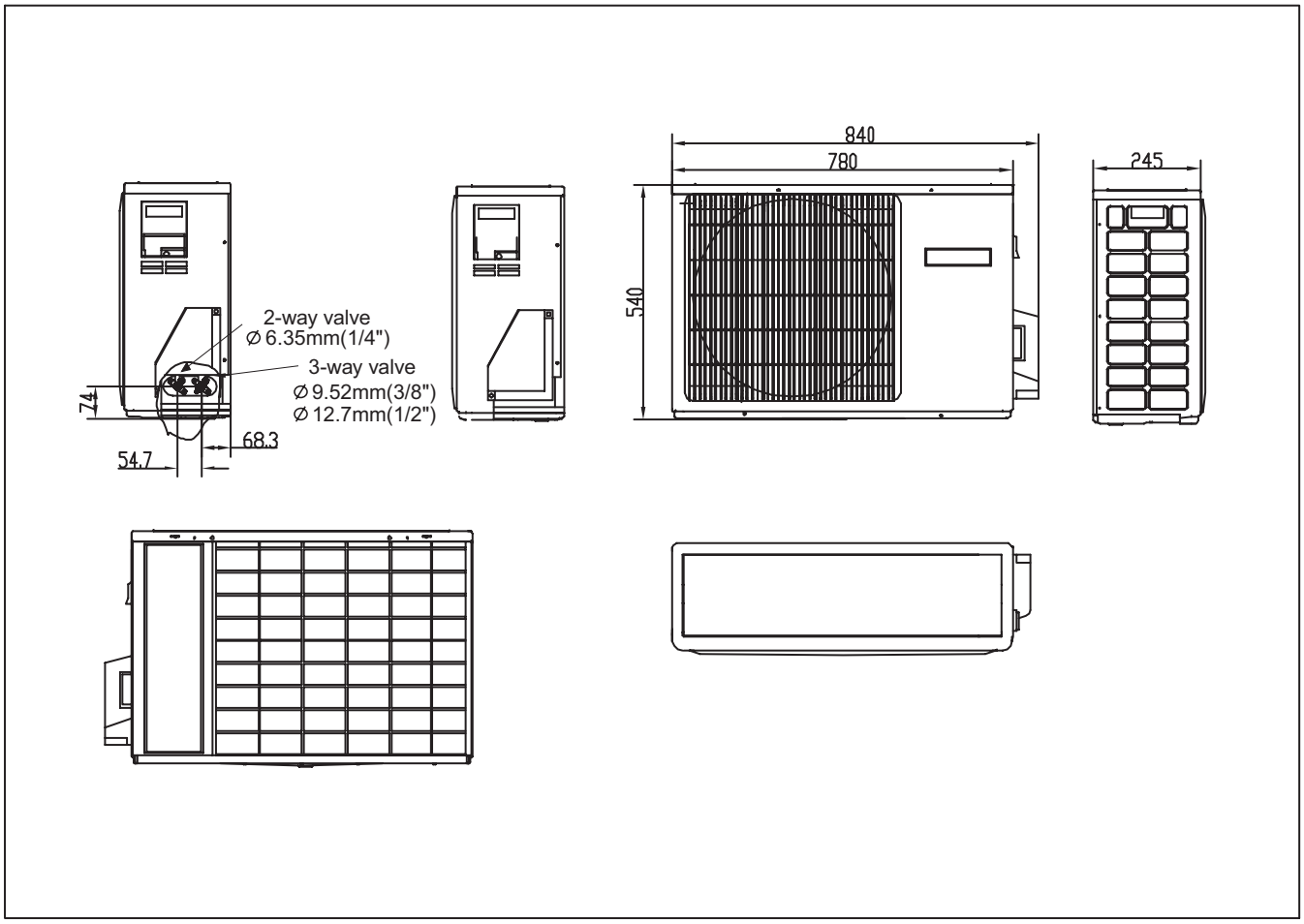
## Indoor unit





Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# Outdoor unit

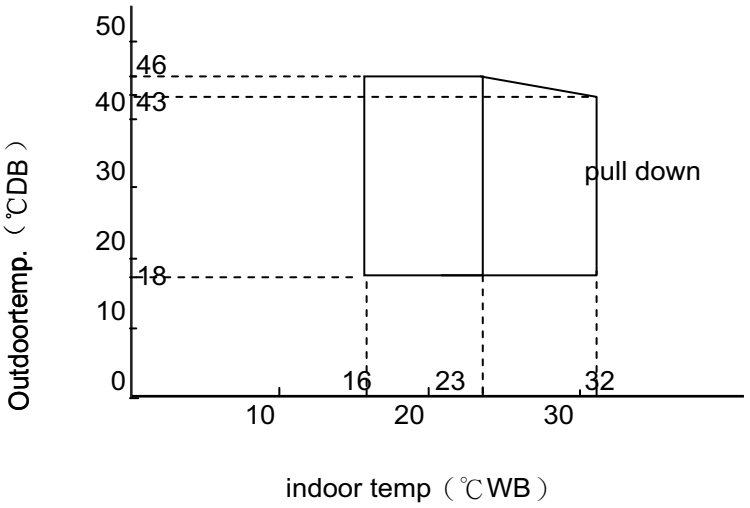


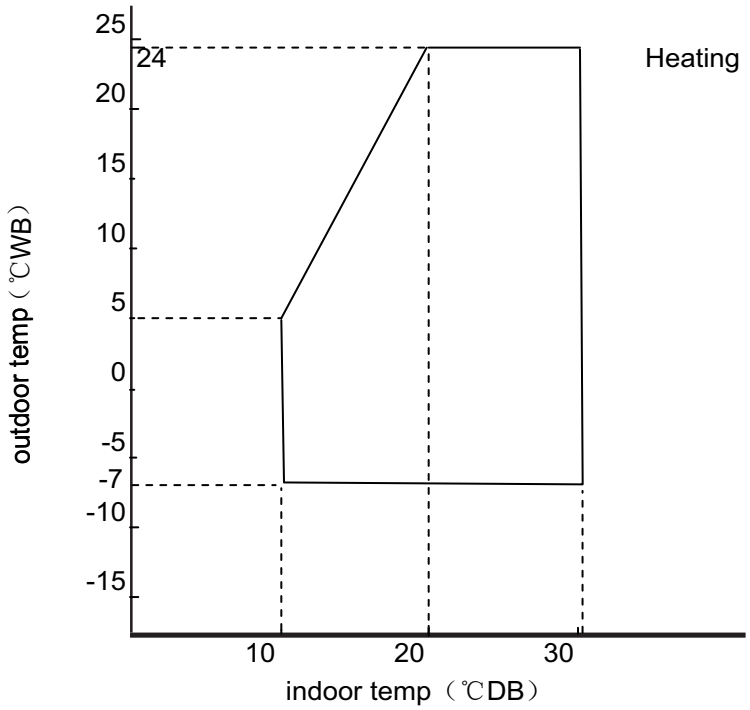



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 6 Operation range

The name of parts Cooling




Notes：

The graphs are based on the following condition：

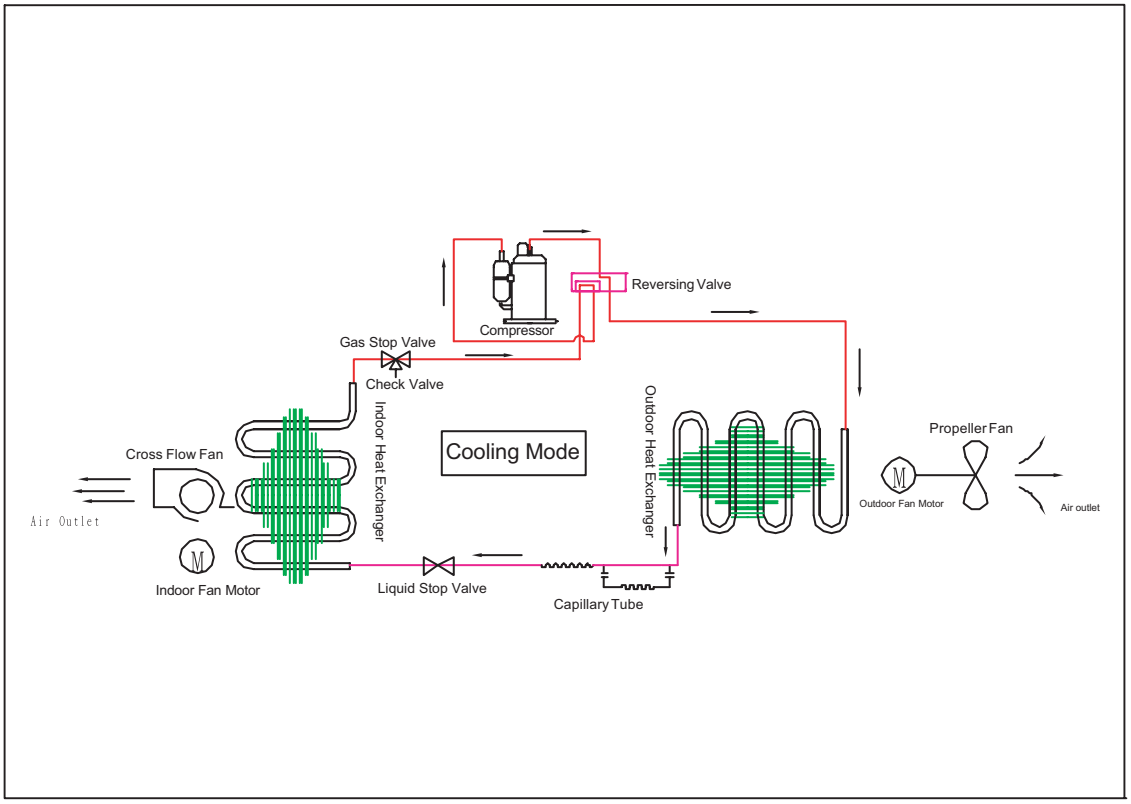
| | |
|---|---|
| Equivalent piping length | 7.5m |
| Level difference | 0m |
| Air flow rate | high |



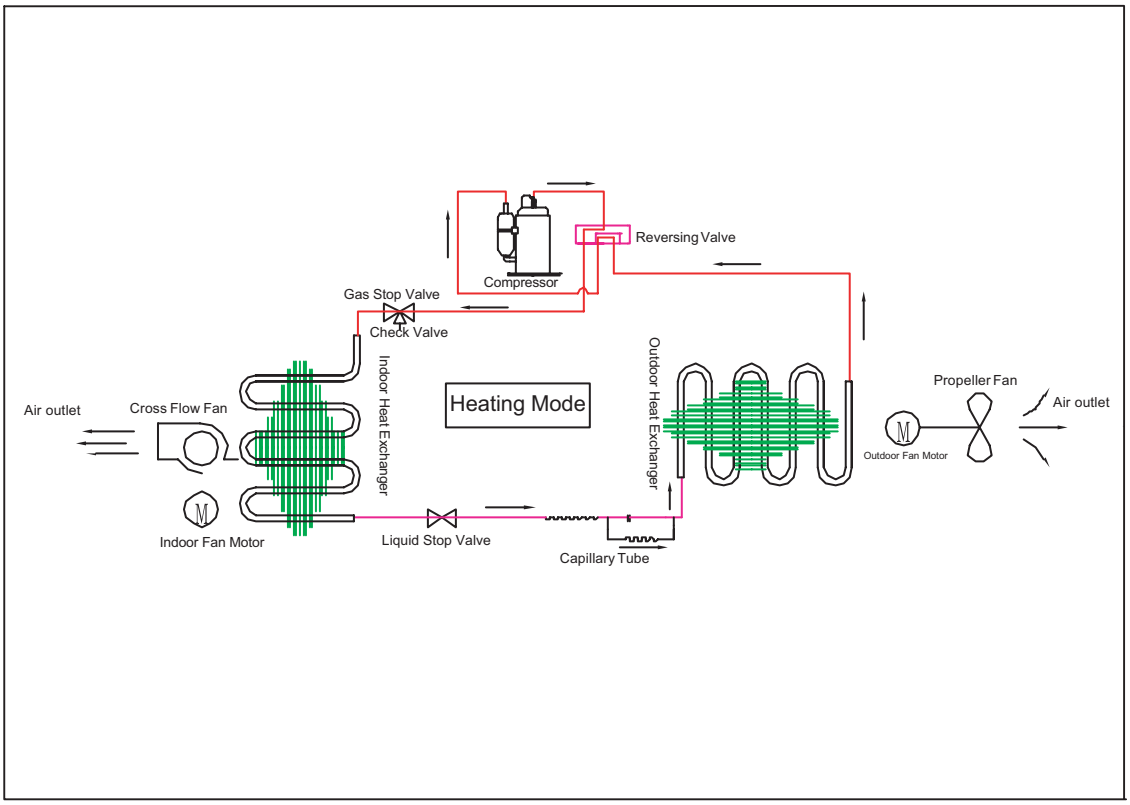
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 7 Piping diagrams

## Cooling mode




## Heating mode

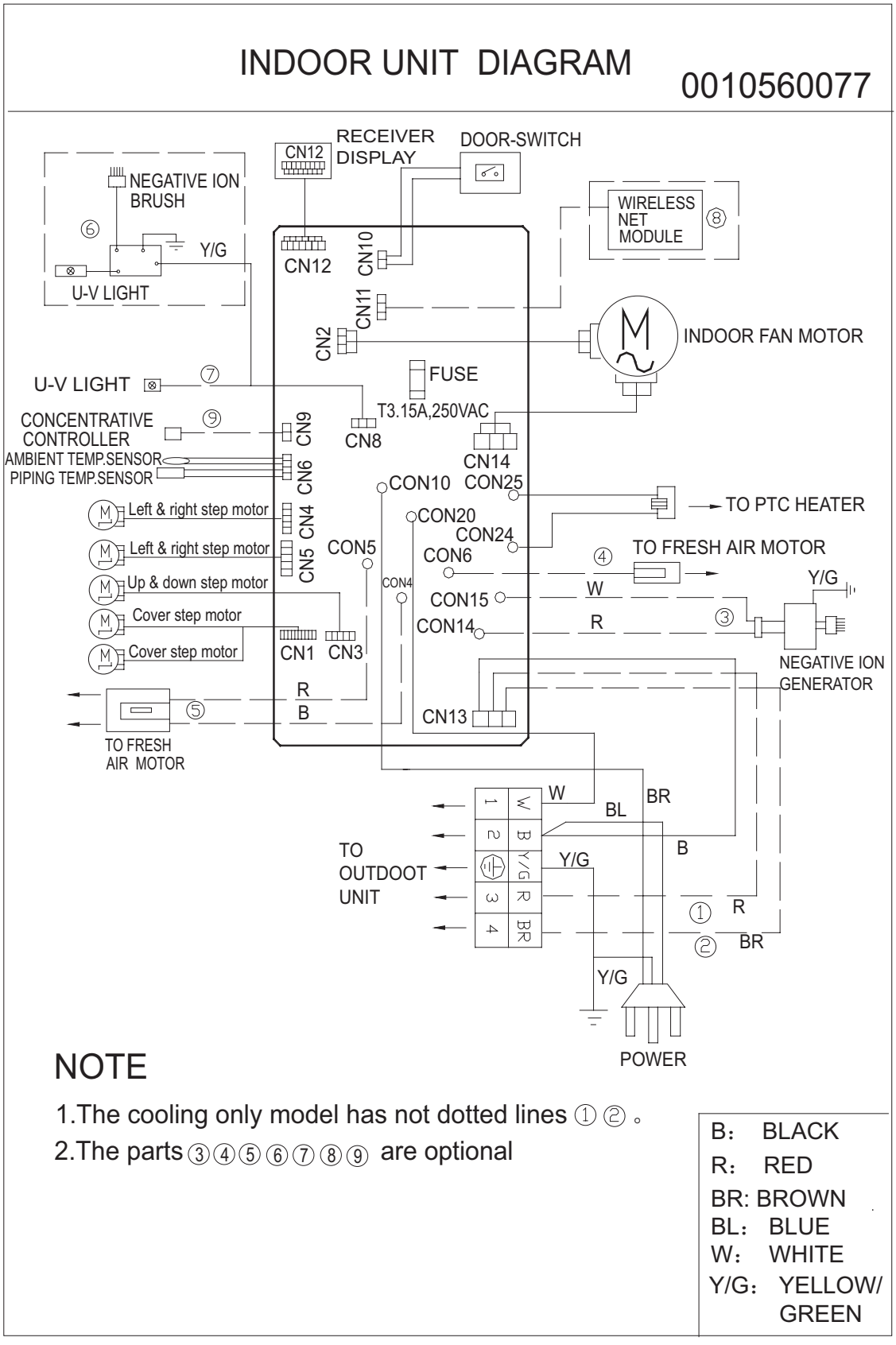





Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 8 Wiring diagrams

## Indoor unit

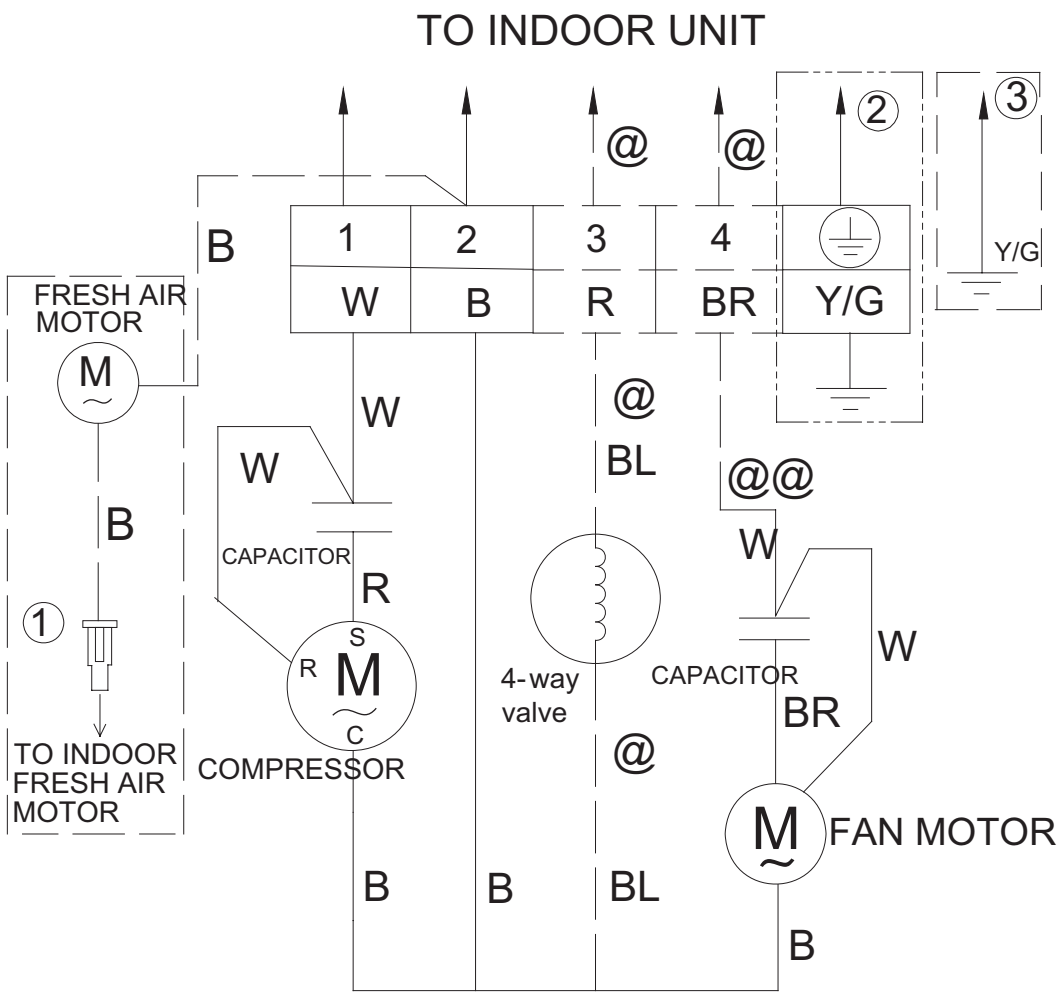





Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# Outdoor unit

## OUTDOOR DIAGRAM 0010560078




NOTE:

1.See above for wiring of heat pump type.

2.There are no dotted lines on cool only type.(marked with @),Wire is connected from 4 (marked with @@)on terminal block to 1.

3.Some of cool only type terminal block only have 1、2 and ③ but no the parts ②.

4.The parts ① are optional.

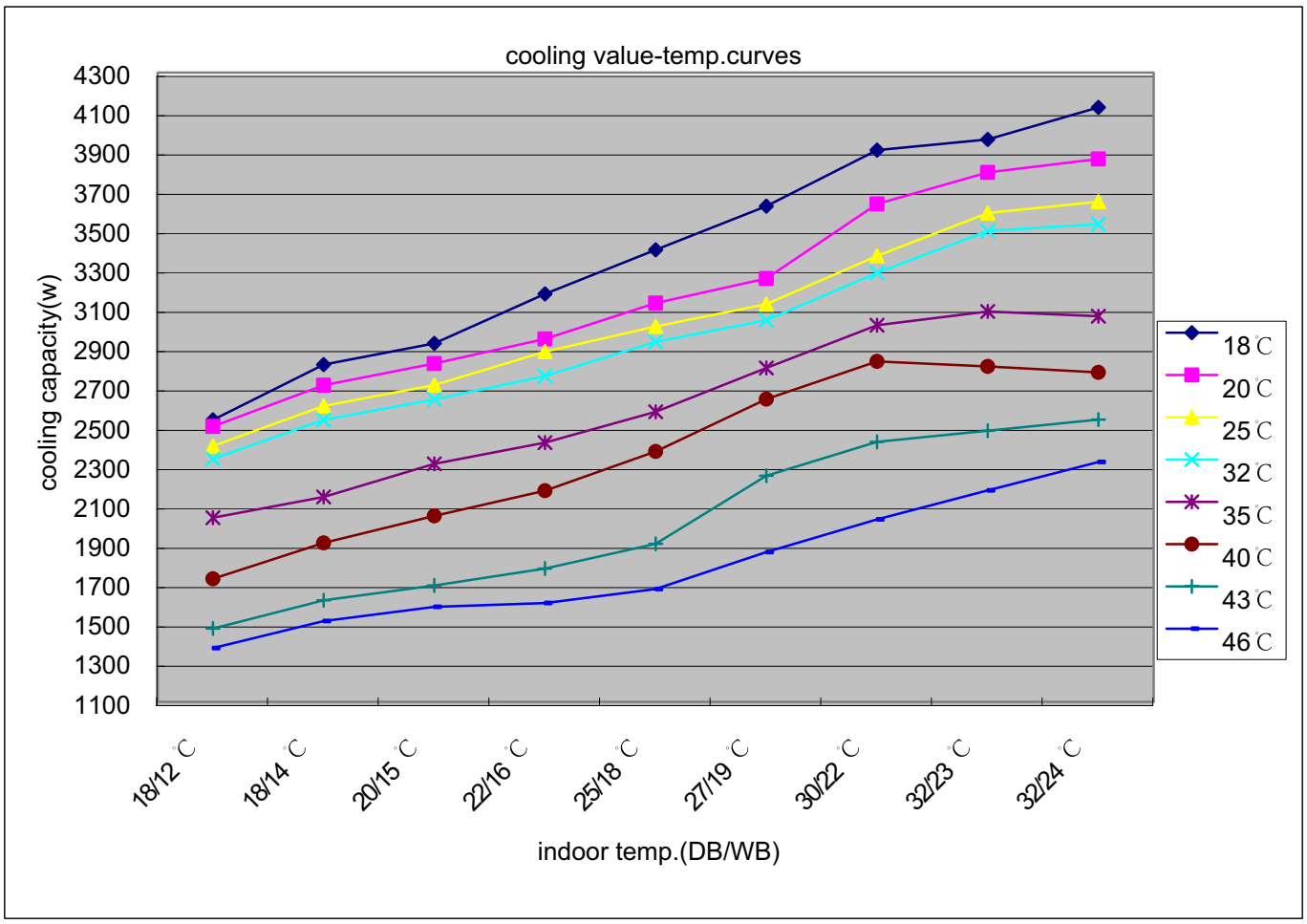
BL: BLUE
B： BLACK
R: RED
W: WHITE
BR: BROWN
Y/G: YELLOW/ GREEN



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 9 Capacity tables and curves diagrams

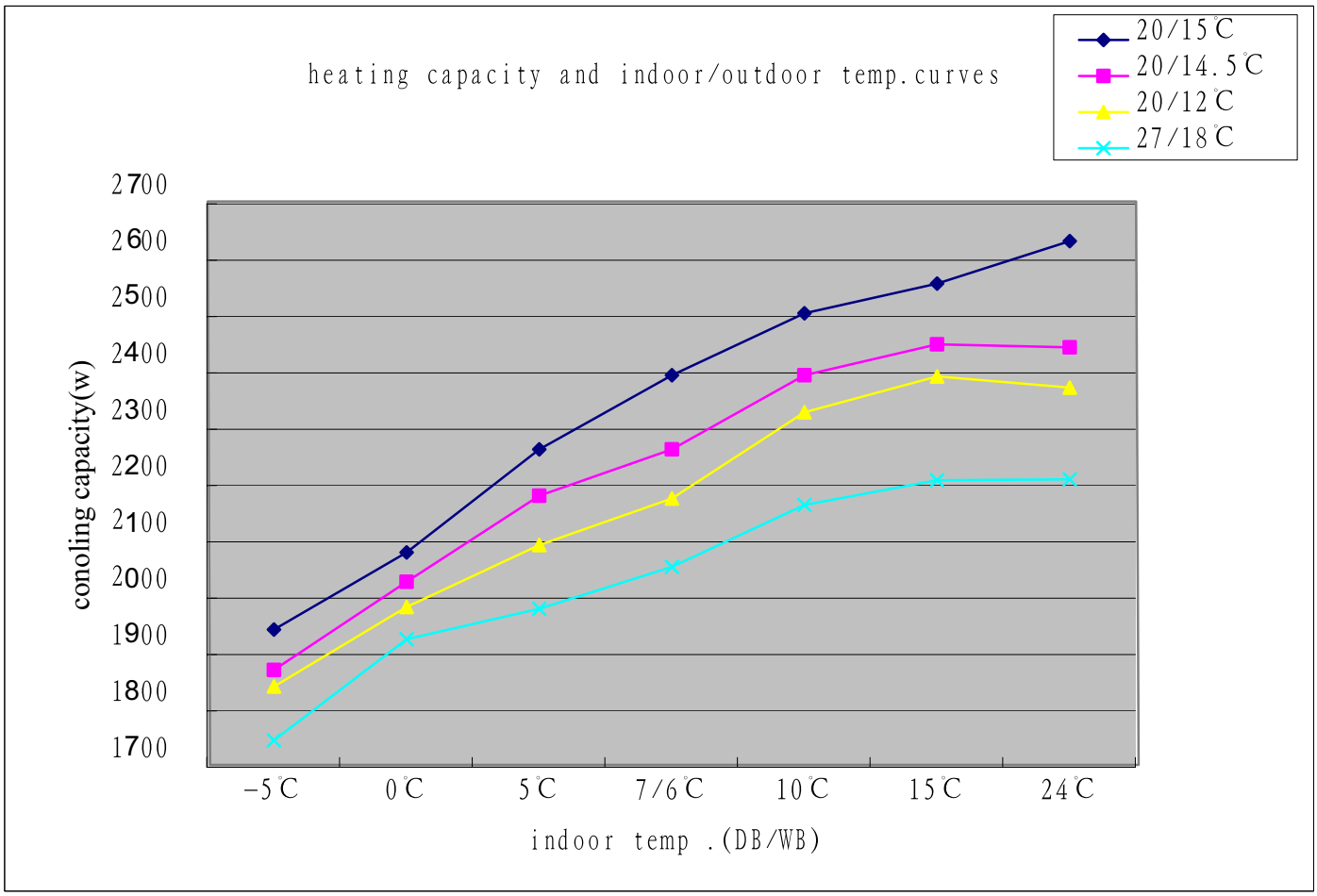
| HSU-09H03/U(ZXF) performance curves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| cooling capacity and indoor/outdoor temp.curves | | | | | | | | |
| indoor temp. | outdoor temp.(humidity 46%) | | | | | | | |
| DB/WB | 18℃ | 20℃ | 25℃ | 32℃ | 35℃ | 40℃ | 43℃ | 46℃ |
| 18/12℃ | 2579 | 2562 | 2463 | 2396 | 2098 | 1787 | 1534 | 1434 |
| 18/14℃ | 2884 | 2772 | 2666 | 2595 | 2203 | 1969 | 1678 | 1572 |
| 20/15℃ | 2979 | 2881 | 2772 | 2699 | 2372 | 2117 | 1753 | 1644 |
| 22/16℃ | 3221 | 3006 | 2942 | 2818 | 2479 | 2235 | 1839 | 1664 |
| 25/18℃ | 3460 | 3189 | 3071 | 2992 | 2636 | 2435 | 1964 | 1735 |
| 27/19℃ | 3682 | 3214 | 3184 | 3102 | 2859 | 2702 | 2311 | 1922 |
| 30/22℃ | 3967 | 3693 | 3429 | 3343 | 3077 | 2892 | 2483 | 2089 |
| 32/23℃ | 4021 | 3853 | 3647 | 3456 | 3147 | 2966 | 2540 | 2236 |
| 32/24℃ | 4184 | 3922 | 3704 | 3591 | 3222 | 3037 | 2597 | 2381 |






Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

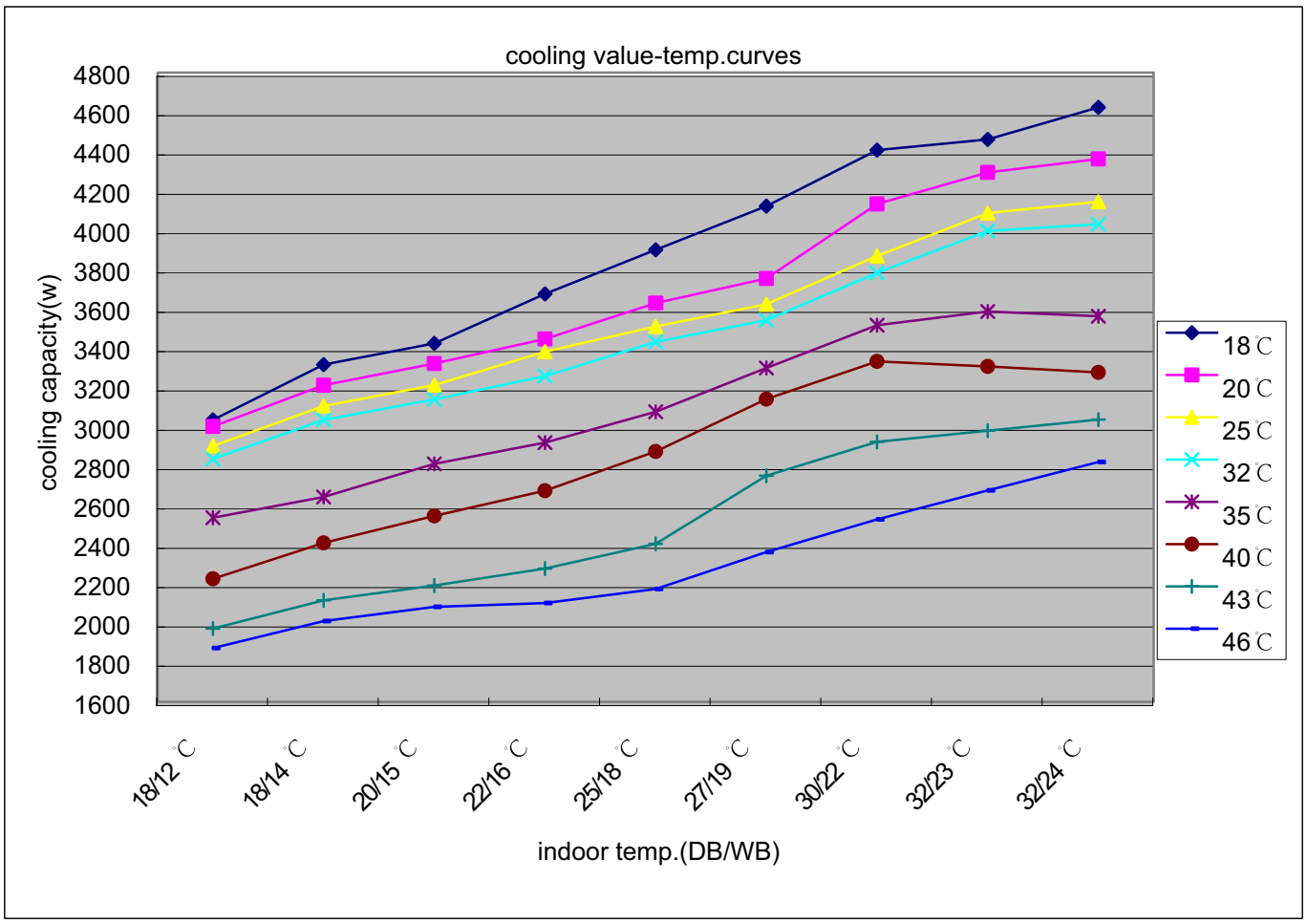
| HSU-09H03/U(ZXF) performance curves | | | | |
|---|---|---|---|---|
| Heating capacity and indoor/outdoor temp.curves | | | | |
| outdoor temp. ℃ | indoor temp. (humidity 46%) | | | |
| DB/WB | 20/15 | 20/14.5 | 20/12 | 27/18 |
| -5 | 1927 | 1855 | 1826 | 1730 |
| 0 | 2064 | 2011 | 1967 | 1910 |
| 5 | 2247 | 2164 | 2077 | 1964 |
| 7/6 | 2378 | 2247 | 2159 | 2038 |
| 10 | 2488 | 2378 | 2312 | 2148 |
| 15 | 2541 | 2433 | 2376 | 2192 |
| 24 | 2616 | 2428 | 2456 | 2293 |






Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

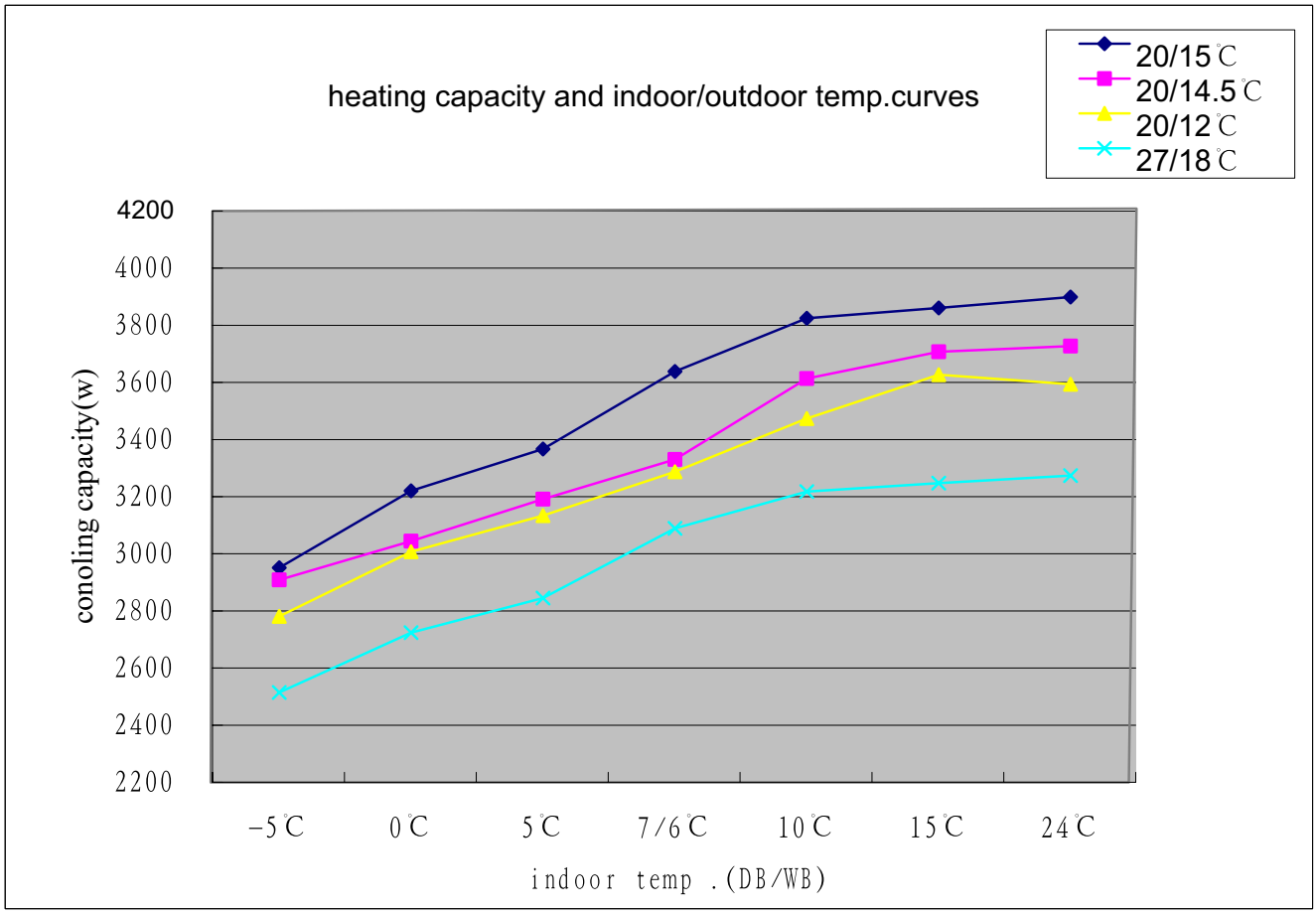
| HSU-12H03/U(ZXF) performance curves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| cooling capacity and indoor/outdoor temp.curves | | | | | | | | |
| indoor temp. | outdoor temp.(humidity 46%) | | | | | | | |
| DB/WB | 18℃ | 20℃ | 25℃ | 32℃ | 35℃ | 40℃ | 43℃ | 46℃ |
| 18/12℃ | 3095 | 3062 | 2963 | 2896 | 2598 | 2287 | 2034 | 1934 |
| 18/14℃ | 3376 | 3272 | 3166 | 3095 | 2703 | 2469 | 2178 | 2072 |
| 20/15℃ | 3484 | 3381 | 3272 | 3199 | 2872 | 2607 | 2253 | 2144 |
| 22/16℃ | 3736 | 3506 | 3442 | 3218 | 2979 | 2735 | 2339 | 2164 |
| 25/18℃ | 3960 | 3689 | 3571 | 3492 | 3136 | 2935 | 2464 | 2235 |
| 27/19℃ | 4182 | 3814 | 3684 | 3602 | 3359 | 3211 | 2811 | 2422 |
| 30/22℃ | 4467 | 4193 | 3929 | 3843 | 3577 | 3392 | 2983 | 2589 |
| 32/23℃ | 4521 | 4353 | 4147 | 3956 | 3647 | 3366 | 3040 | 2736 |
| 32/24℃ | 4684 | 4422 | 4204 | 4091 | 3622 | 3337 | 3197 | 2881 |






Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

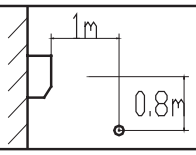
| HSU-12H03/U(ZXF) performance curves | | | | |
|---|---|---|---|---|
| heating capacity and indoor/outdoor temp.curves | | | | |
| outdoor temp . ℃ | indoor temp .(humidity 46%) | | | |
| DB/W B | 20 /15 ℃ | 20/14.5 ℃ | 20 /12 ℃ | 27 /18 ℃ |
| -5 ℃ | 2911 | 2871 | 2745 | 2478 |
| 0 ℃ | 3184 | 3002 | 2973 | 2682 |
| 5 ℃ | 3334 | 3156 | 3096 | 2814 |
| 7/6 ℃ | 3607 | 3294 | 3251 | 3051 |
| 10 ℃ | 3789 | 3571 | 3436 | 3184 |
| 15 ℃ | 3825 | 3673 | 3593 | 3213 |
| 24 ℃ | 3869 | 3695 | 3557 | 343 |






Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 10 Sound level

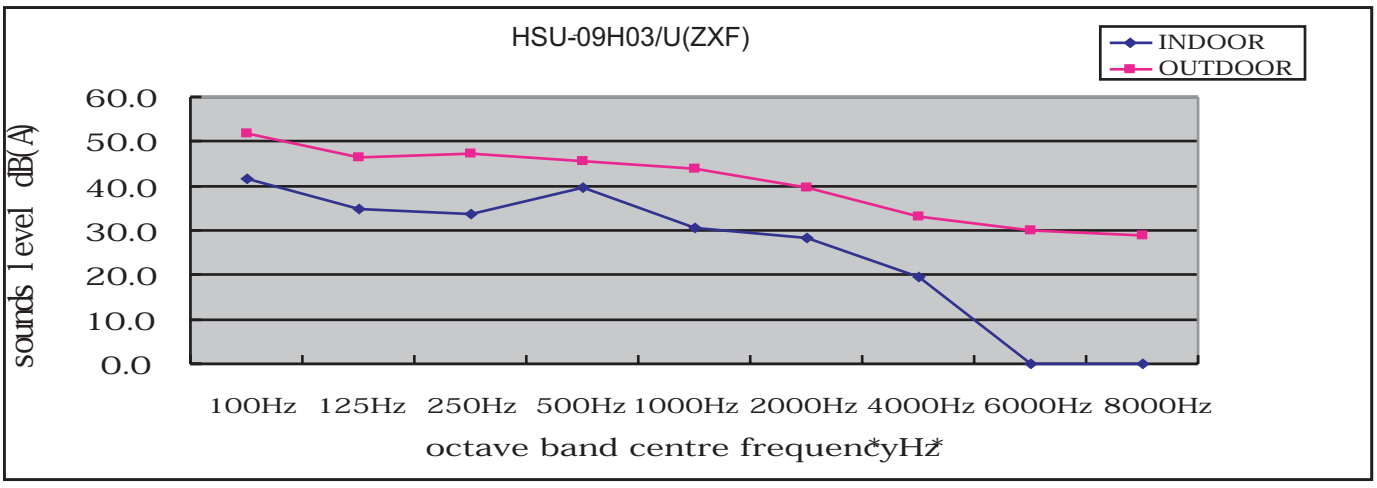
| Model | Sound presure level | | | Measuring location<br>Location of microphone | sound power level (cooling/heating) |
|---|---|---|---|---|---|
| | 220 ~ V,50Hz<br>Cooling/heating | | | | |
| | H | L | SL | | |
| HSU-09H03/U(ZXF) | 45 | 38 | 32 |  | 45 |
| HSU-12H03/U(ZXF) | 39 | 35 | 29 | | 39 |

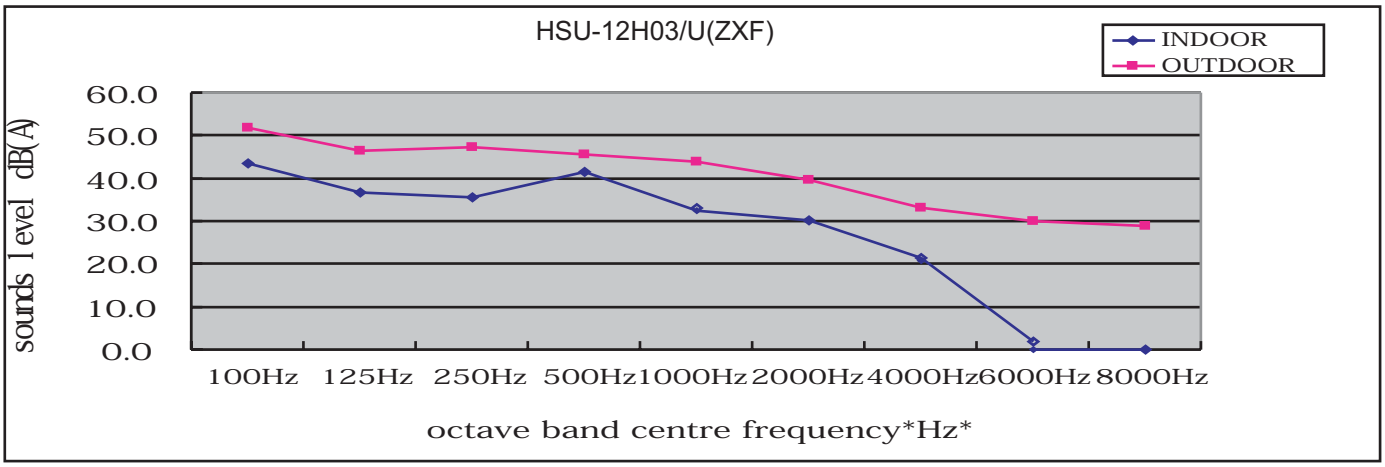
## Sound level data(cooling)

| HSU-09H03/U(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-12H03/U(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(cooling)





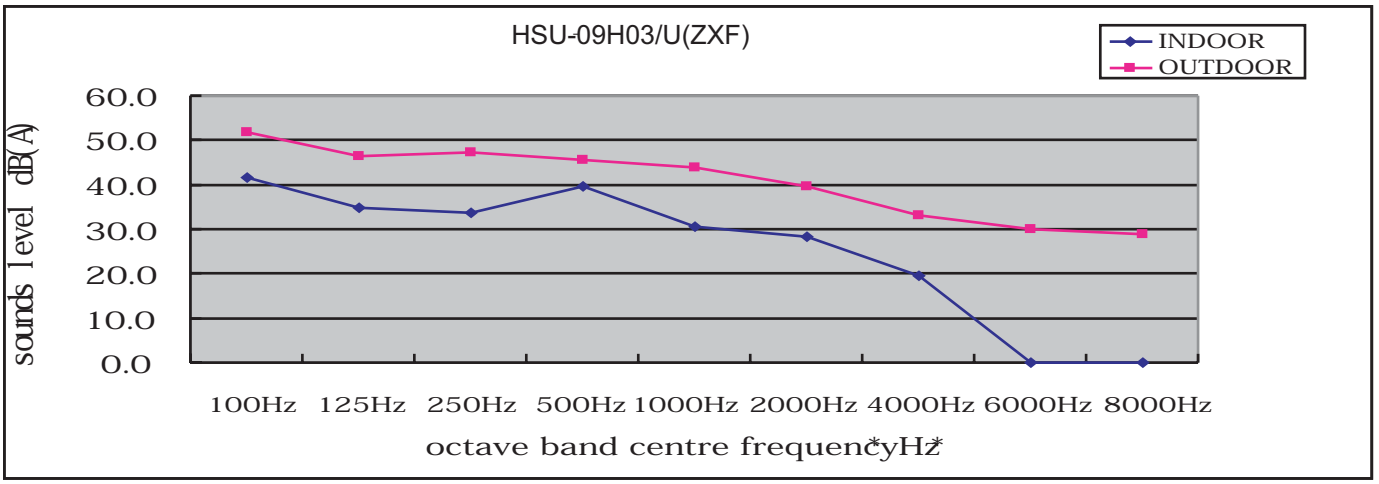

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

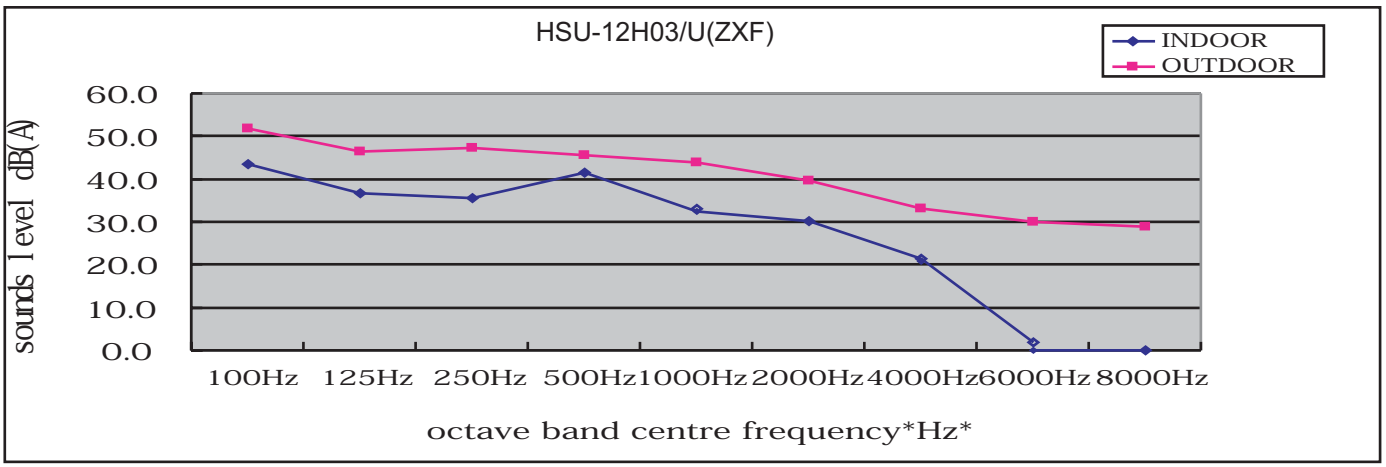
## Sound level data(heating)

| HSU-09H03/U(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-12H03/U(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(heating)






Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

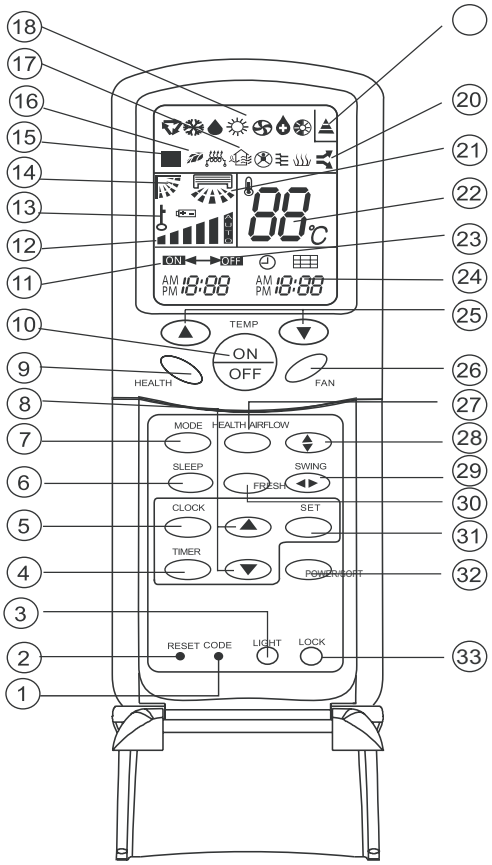
# 11 Accessories

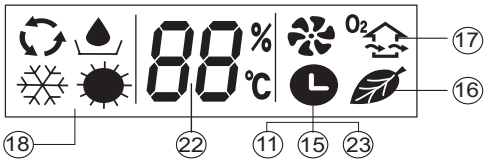
| Standard name | HSU-09H03/U(ZXF) | HSU-12H03/U(ZXF) |
|---|---|---|
| Drain hose | 1 | 1 |
| Plastic bag | 1 | 1 |
| screw assembly | 1 | 1 |
| Air purifier | 2 | 2 |
| Battery | 2 | 2 |
| Mounting plate | 1 | 1 |
| Remote controller | 1 | 1 |
| Installation manual | 1 | 1 |
| Operation manual | 1 | 1 |



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 12 Control systems



| Operation mode | AUTO | COOL | DRY | HEAT | FAN |
|---|---|---|---|---|---|
| Remote controller | | | | | |
| Display board | | | | | |

1.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.

2.RESET
When the remote controller appears abnormal, use a sharp pointed article to press this button to reset the remote controller normal.

3.LIGHT button
Control the lightening and extinguishing of the indoor LED display board.

4. TIMER button
Used to select TIMER ON, TIMER OFF, TIMER ON-OFF.

5. CLOCK button
Used to set correct time.

6. SLEEP button
Used to select sleep mode.

7. MODE button
AUTO → COOL → DRY → FAN → HEAT

8. HOUR button
Used to set clock and timer setting.

9. HEALTH button
Used to set healthy operation.

10. ON/OFF button
Used for unit start and stop.

11. TIMER ON display

12. FAN SPEED display

13. LOCK display

14. SWING UP/DOWN display

15. SLEEP display

16. HEALTH display

17.FRESH AIR display

18. Operation mode display

19.Singal sending display

20. POWER/SOFT display

21. Left/right air flow display

22. TEMP display
Remote controller: to display the TEMP. setting.

23. TIMER OFF display

24. CLOCK display

25. TEMP button
Used to select your desired temperature.

26. FAN button
Used to select fan speed: LOW,MED, HI, AUTO.

27. HEALTH AIRFLOW button
Used to set the health airflow mode.

28. SWING UP/DOWN button
Used to select up or down air sending direction.

29. SWING LEFT/RIGHT button
Used to select left/right air flow.

30. FRESH button
Use to set fresh air function.

31. SET button
Used to confirm timer and clock settings.

32. POWER/SOFT button
Use to set power/soft function.

33. 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.

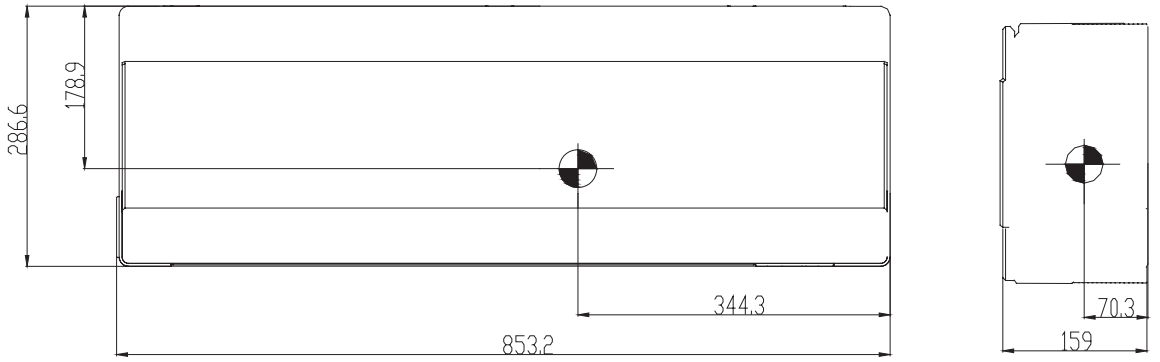
NOTE: Cooling only unit do not have functions and displays related with heating.
The fresh function is optional.



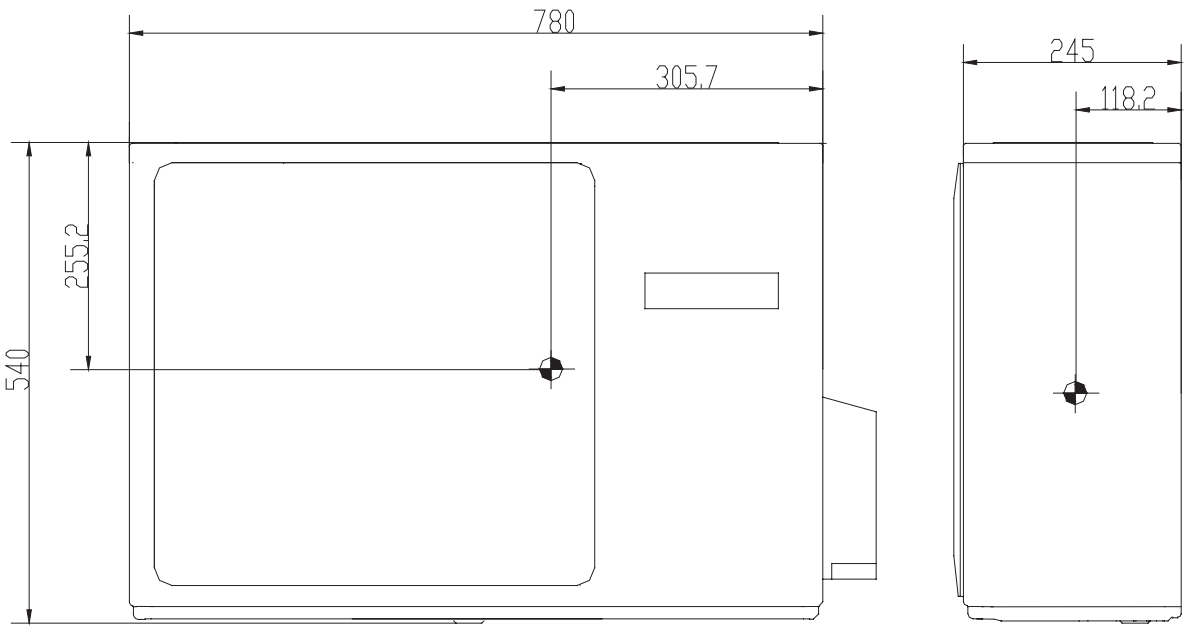
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# 13 Center of gravity

Indoor unit




Outdoor unit



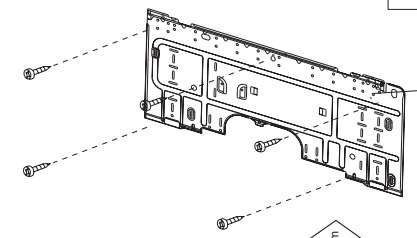


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

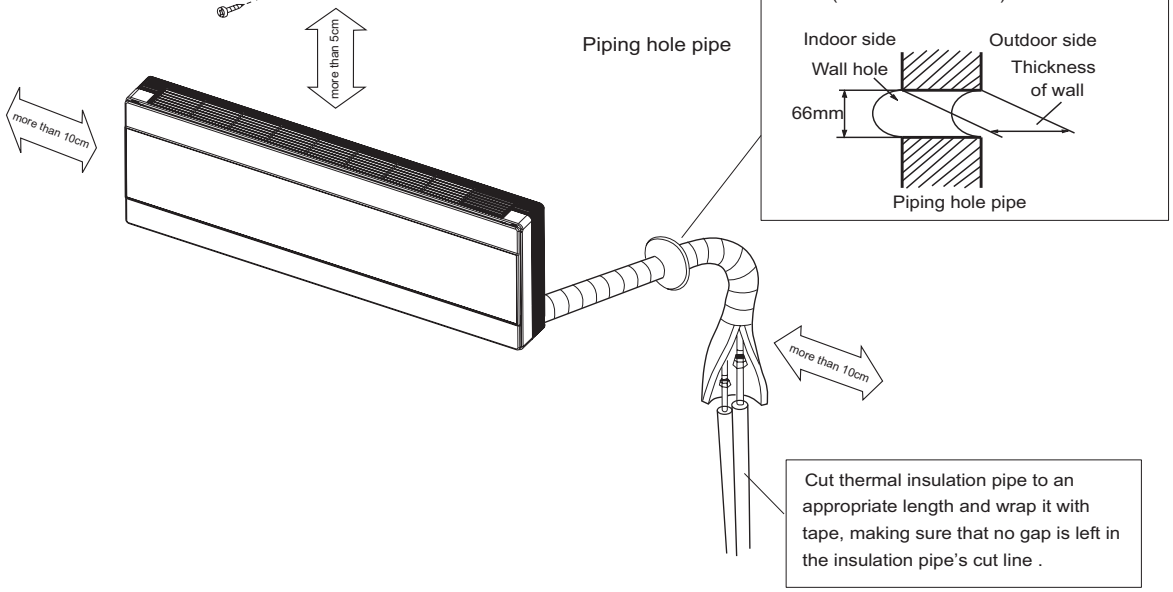
# 14 Installations

## Indoor unit installation drawings

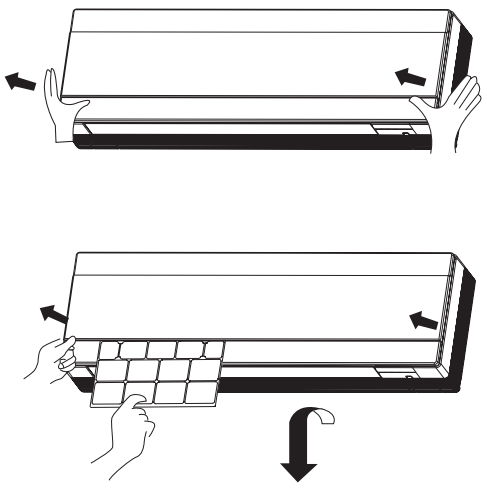
- How to attach the indoor unit.
  Hook the claws of the bottom frame to the mounting plate.
  If the claws are difficult to hook ,remove the front panel.
- How to remove the indoor unit.
  Push up the marked area (at the lower part of the front panel ) to release the the claws . If it is difficult to release ,remove the front panel .



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.



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

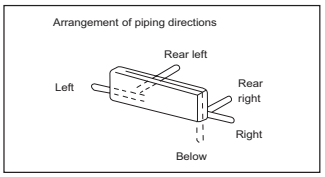
# Outdoor unit installation drawings

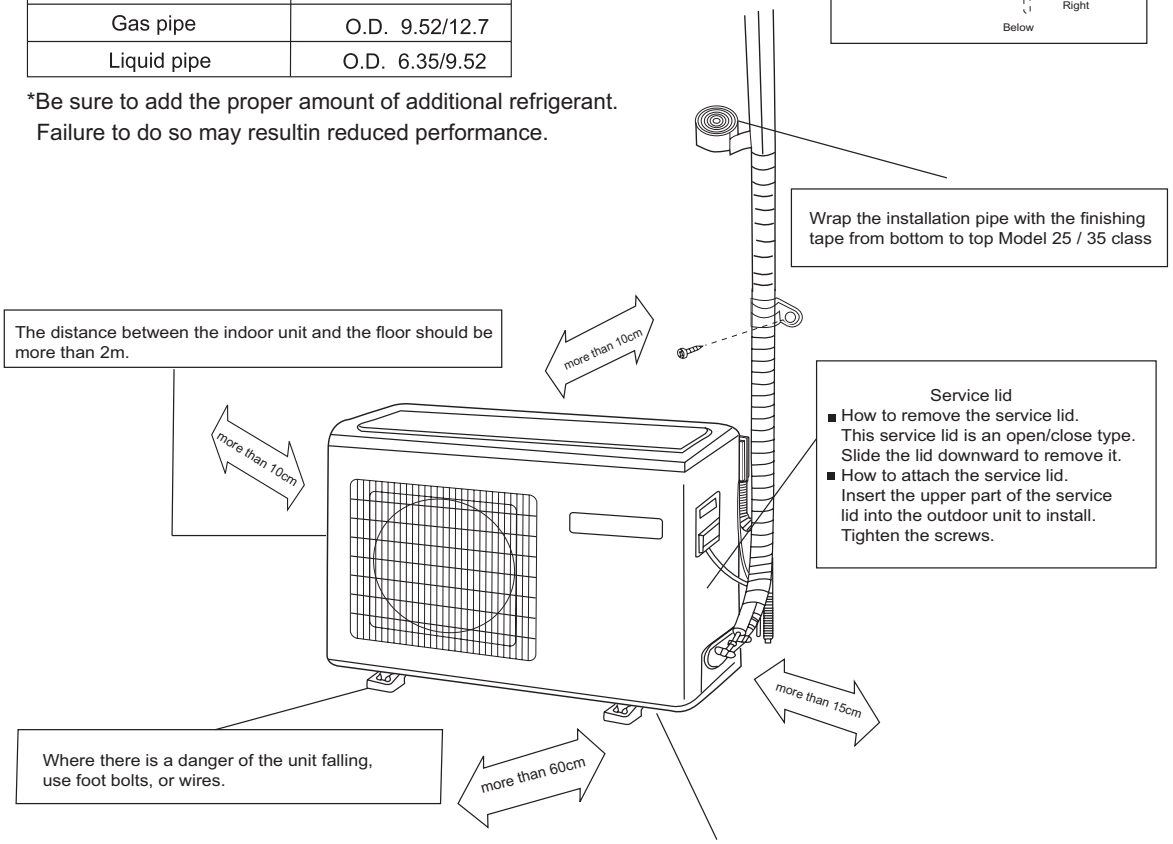
## HSU-09,12H03/U(ZXF)

### Outdoor

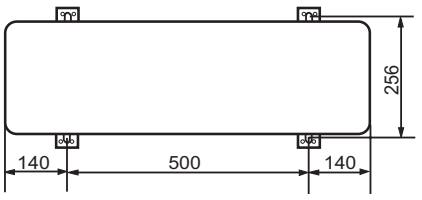
| Model | 26/28 class |
|---|---|
| Max.allowable length | Cooling only： 7m<br>Heat pump： 7m |
| Max.allowable height | 5m |
| Additional refrigerant required for refrigerant pipe exceeding 5m in length | 16g/m |
| Gas pipe | O.D. 9.52/12.7 |
| Liquid pipe | O.D. 6.35/9.52 |

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




- Fix the unit to concrete or block with bolts(ϕ10mm) and nuts firmly and horizontally.
- When fitting the unit to wall surface, roof or rooftop, fix a supporter surely with nails or wires in consideration of earthquake and strong wind.
- If vibration may affect the house, fix the unit by attaching a vibration-proof mat.






Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

# Sincere Forever

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