

Domestic Air conditioner

ON/OFF

Wall mounted Type R-Series

TECHNICAL DATA

HSU-09H03/R(QXF) HSU-12H03/R(QXF)

Haier

CAUTION

- READ THIS MANUAL CAREFULLY TO
 DIAGNOSE TROUBLE CORRECTLY
 BEFORE OFFERING SERVICE.
- 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.

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	12
10. Sound level	16
11. Accessories	18
12. Control systems	19
13. Center of gravity	20
14 Installations	24



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



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



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



Anti-mold filter: Catches most small particles and remove unpleasant odors effectively



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



O₂ 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









2 Specifications

This information was not $% \left(1\right) =\left(1\right) \left(1\right)$ available at the time of publication .

NOMINAL CAPACITY and NOMINAL INPUT							
For indoor units or	For indoor units only:						
INDOOR UNITS				HSU-09H03/R(QXF)	HSU-12H03/R(QXF)		
NOMINAL	Cooling	nominal	kW	0.05	0.05		
INPUT	Heating	nominal	kW	0.05	0.05		

NOMINALCAPACITY and NOMINAL INPUT								
	Model			HSU-09H03/R(QXF)	HSU-12H03/R(QXF)			
NORMINAL	Cooling(1)	norm.	kw	2.7	3.45			
CAPACITY(3-4)	Heating(2)	norm.	kw	3.0	3.8			
NORMINAL INPUT	Cooling	norm	kw	0.8	1.02			
NORWINAL INPUT	Heating	norm.	kw	0.855	1.2.			
EER	Cooling			3.38	3.38			
COP	Heating			3.51	3.17			
ENERGY LABEL(7-8)	Cooling							
LINEROT LABLE(7-0)	Heating							
ANNUAL ENERGY CONSUMPTION(9)	Cooling		kwh	400	510			

TECHNICAL SPECIFICA	ATIONS					
INDOOR UNITS				HSU-09H03/R(QXF)	HSU-12H03/R(QXF)	
		Н	mm	285	285	
DIMENSIONS	Unit	W	mm	860	860	
		D	mm	165	165	
WEIGHT	Unit		kg	10.5	10.5	
COLOR	Unit			Golden	Golden	
		high	dB(A)	38/39	39/41	
SOUND LEVEL	Sound pressure (cooling/heating)(5)	medium	dB(A)	35/36	34/36	
		low	dB(A)	30/32	30/32	
	Sound power(cooling/heating)(6)	high	dB(A)	48	48	
		high	m ³ /min	9.0/8.0	10.4/10.4	
	Air flow rate(cooling/heating)	low	m ³ /min	6.5/6.5	6.5/6.5	
		super low	m ³ /min			
FANI		steps		5steps,silent and auto		
FAN	Speed(cooling/heating)	high	rpm	1250/1150	1350/1350	
		medium	rpm	1100/1050	1150/1150	
		low	rpm	950/950	950/950	
	Туре	Туре				
	Motor output		W	18	18	
LIEAT EVOLUNIOED	Туре			ML fin - Ф9.52HI - XA tube		
HEAT EXCHANGER	Row x stage x fin pitch	Row x stage x fin pitch mm				
AIR FILTER	·			Removable/washal	ole/mildew proof	
REMOTE CONTROLLER				YF	R-H82	
TEMPERATURE CONTROL				Microcomputer c	ontrol	
		liquid	mm	6.35	6.35	
PIPING CONNECTIONS(exter	nal diameter)	gas	mm	9.52	12.7	
		drain	mm	16	16	
INSULATION MATERIAL	Heat insulation type			both liquid a	nd gas pipes	



TECHNICAL SPECIFICAT	IONS					
OUTDOOR UNITS				HSU-09H03/R(QXF)	HSU-12H03/R(QXF)	
NET DIMENSIONS		Н	mm	650	650	
(stop valve, and bottom support	Unit	W	mm	780	780	
is not included)		D	mm	250	250	
WEIGHT	Unit		kg	41	43	
COLOR	Unit		•	white	white	
	Sound pressure(cooling/heating)(5)	high	dB(A)	46	47	
SOUND LEVEL	Sound power(cooling/heating)(6)	high	dB(A)	59	60	
		high	m ³ /min	25.3	25.3	
	Air flow rate(cooling/heating)	low	m ³ /min	17.0	17.0	
		high	rpm	860	860	
FAN	Speed(cooling/heating)	low	rpm			
	Туре	· ·	Propeller fan			
	Motor output		W	19	19	
	Туре			МL - Ф9.52	Hi - XA bube	
HEAT EXCHANGER	Row x stage x fin pitch		mm	2 x 10 x 1.4	2 x 12 x 1.4	
	Refrigerant type			R22	R22	
	Refrigerant charge		kg	1.05	1.25	
	Maximum allowable distance between indoor and outdoor	een	m	20	20	
REFRIGERANT CIRCUIT	Maximum allowable level difference	m	10	10		
	Refrigerant control	/				
	Туре			Rotary Co	mpressor	
	Model			C-RV162H01AA	PH200X2C-8FTC1	
COMPRESSOR	Motor output		w	930	1100	
	Oil type			SAY-56T	SUNISO 4GSD ATMOS NM56EP	
	Oil charge volume		L	0.50	0.48	
	liquid		mm	Ф 6.35	Ф 6.35	
PIPING CONNECTIONS	gas				Ф 12.7	
	drain		mm	Ф 18	Ф 18	
INSULATION MATERIAL	Heat insulation type		•	both liquid and gas pipes		

ELECTRICAL SPECIFICATIONS								
For combinat	ion indoor units+	outdoor uni	its:	HSU-09H03/R(QXF)	HSU-12H03/R(QXF)			
	Nominal	cooling	Α	3.3	4.4			
running current	· ·	heating	А	4.4	5.3			
	Maximum	cooling	А	6.3	6.3			
CURRENT	running current	heating	А	7.6	7.6			
	Starting cooling		А	22.5	22.5			
	current	heating	А	22.5	22.5			



For indoor units only:			HSU-09H03/R(QXF)	HSU-12H03/R(QXF)	
POWER SUPPLY			VM	VM	
NOMINAL	Phase		1PH	1PH	
DISTRIBUTION	Frequency	Hz	50	50	
SYSTEM	\/-It	V	220, 220		
VOLTAGE	VOLTAGE Voltage		220~230	220~230	

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.
- The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 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-09H03/R(QXF)	HSU-12H03/R(QXF)
YR-H82	Y	Υ

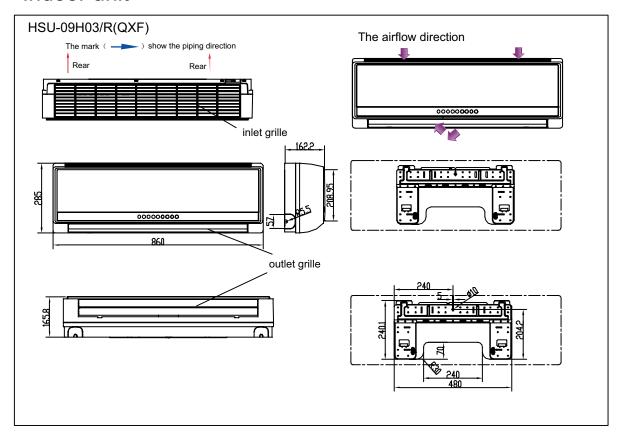
4 Sensors lists

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

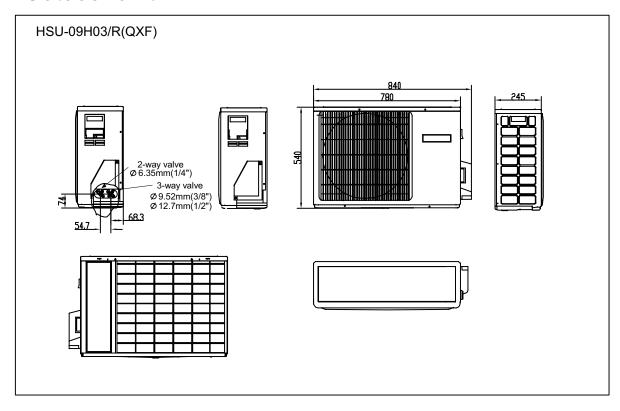


5 Dimensional drawings

Indoor unit

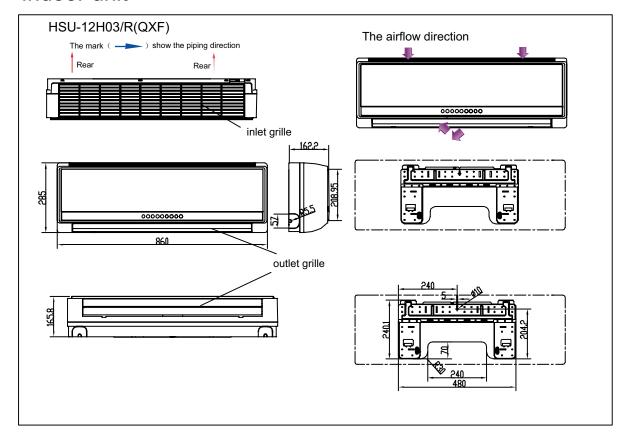


Outdoor unit

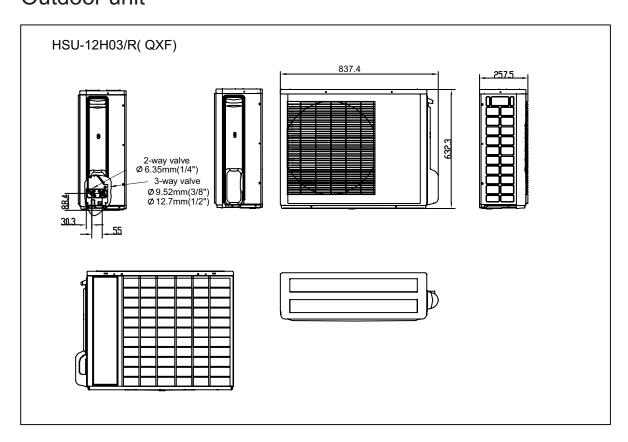




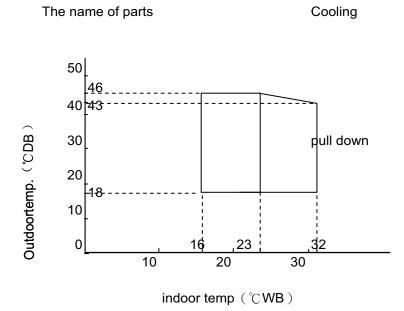
Indoor unit

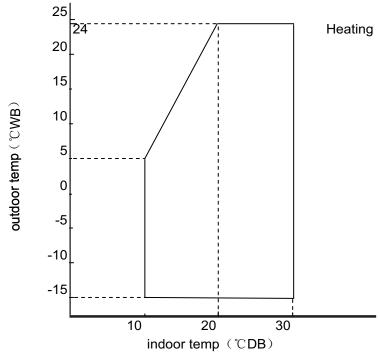


Outdoor unit



6 Operation range





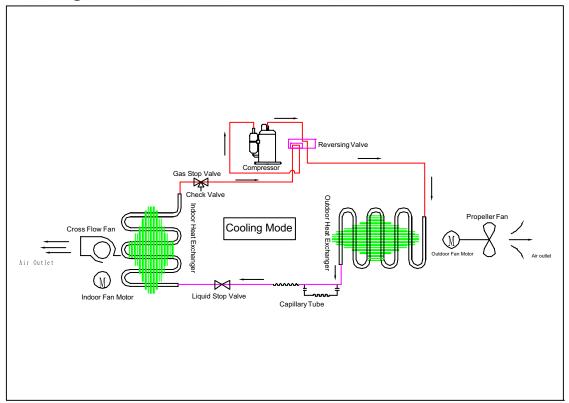
Notes:

The graphs are based on the following condition:

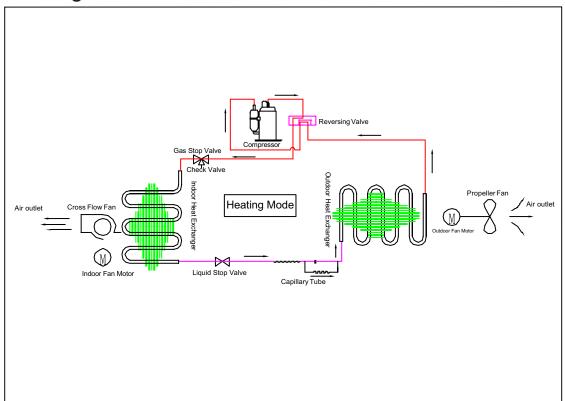
Equivalent piping length 7.5m
Level difference 0m
Air flow rate high

7 Piping diagrams

Cooling mode



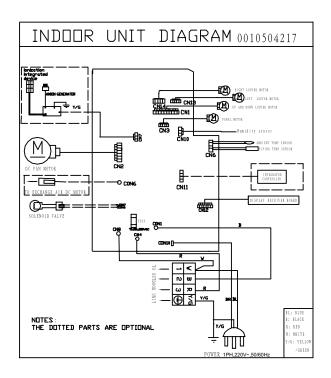
Heating mode



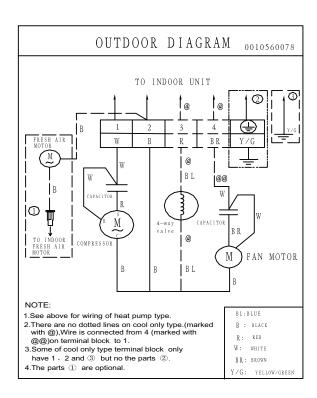


8 Wiring diagrams

HSU-09,12H03/R(QXF)
Indoor unit



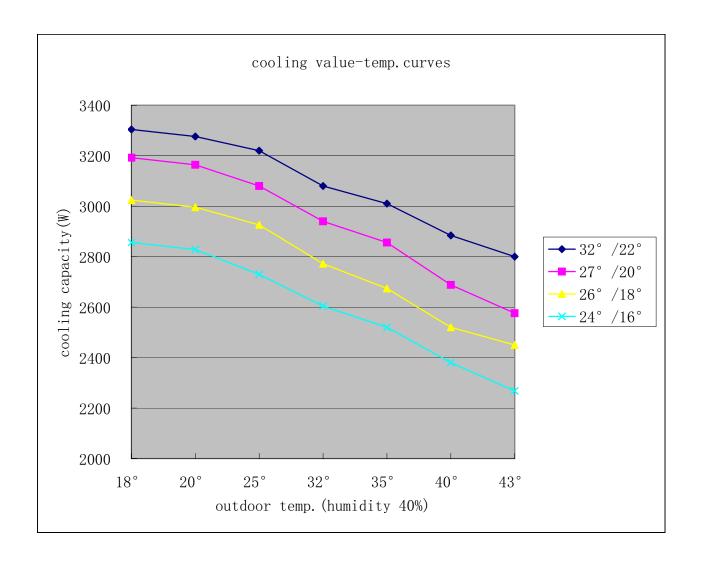
HSU-09,12H03/R(QXF) Outdoor unit





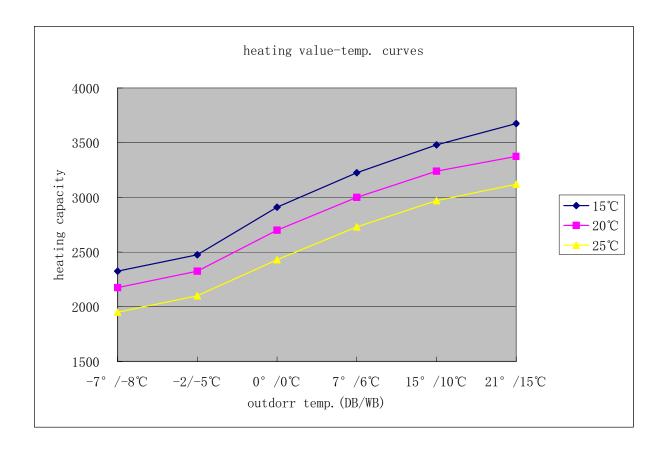
9 Capacity tables and curves diagrams

HSU-09H03/R(QXF) performance curves									
cooling capacity and indoor/outdoor temp. talbe									
indoor temp.	indoor temp. outdoor temp. (humidity 40%)								
DB/WB	18°	20°	25°	32°	35°	40°	43°		
32° /22°	3304	3276	3220	3080	3010	2884	2800		
27° /20°	3192	3164	3080	2940	2856	2688	2576		
26° /18°	3024	2996	2926	2772	2674	2520	2450		
24° /16°	2856	2828	2730	2604	2520	2380	2268		





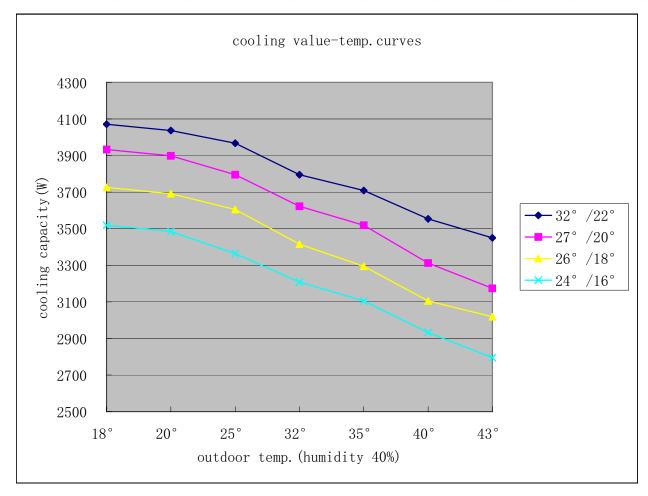
HSU-09H03/R(QXF) performance curves									
heating capacity and indoor/outdoor temp.curves									
indoor temp.	indoor temp. (DB/WB)								
DB	-7° /-8℃	-2/-5°C	0° /0℃	7° /6℃	15° /10℃	21° /15℃			
15℃	2325	2475	2910	3225	3480	3675			
20℃	2175	2325	2700	3000	3240	3375			
25℃	1950	2100	2430	2730	2970	3120			



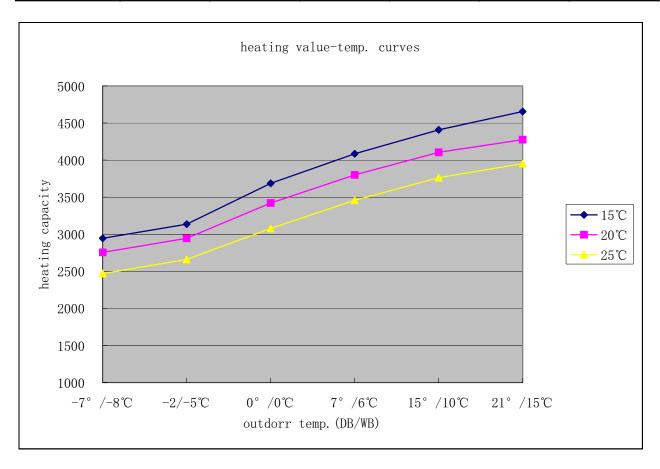
Haier



HSU-12H03/R(QXF) performance curves									
cooling capacity and indoor/outdoor temp. talbe									
indoor temp.	indoor temp. outdoor temp. (humidity 40%)								
DB/WB	18°	20°	25°	32°	35°	40°	43°		
32° /22°	4071	4037	3968	3795	3709	3554	3450		
27° /20°	3933	3899	3795	3623	3519	3312	3174		
26° /18°	3726	3692	3605	3416	3295	3105	3019		
24° /16°	3519	3485	3364	3209	3105	2933	2795		

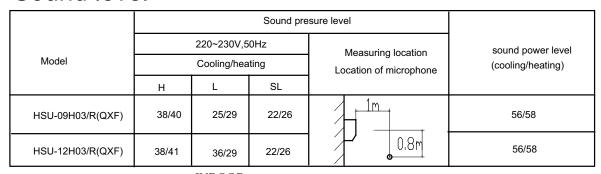


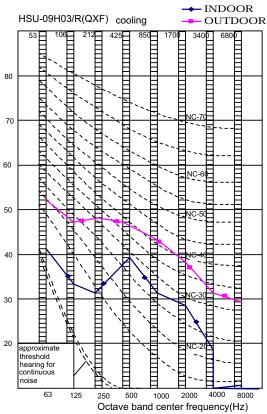
HSU-12H03/R(QXF) performance curves								
heating capacity and indoor/outdoor temp.curves								
indoor temp.	outdoor temp. (DB/WB)							
DB	-7° /-8℃	-2/-5℃	0° /0℃	7° /6℃	15° /10℃	21° /15℃		
15℃	2945	3135	3686	4085	4408	4655		
20℃	2755	2945	3420	3800	4104	4275		
25℃	2470	2660	3078	3458	3762	3952		

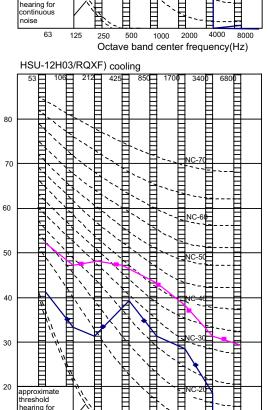




10 Sound level





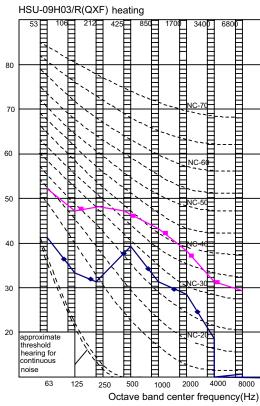


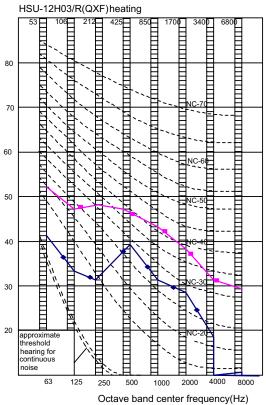
500

2000

16

1000 Octave band center frequency(Hz)







11 Accessories

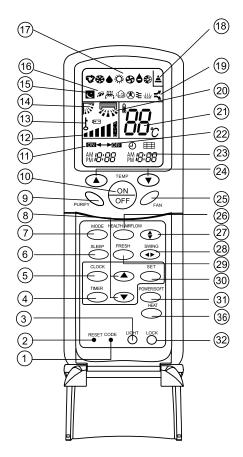
Standard accessories

Standard name	HSU-24C03/Z	HSU-24H03/Z	
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	





12 Control systems



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



8. HOUR button

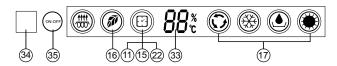
Used to set clock and timer setting.

9. Purify button

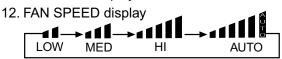
Used to set air ionization purify and healthy function.

10. ON/OFF button

Used for unit start and stop.



11. TIMER ON display



- 13. LOCK display
- 14. SWING UP/DOWNdisplay
- 15. SLEEP display
- 16. HEALTH display
- 17. Operation mode display

Operation mode	AUTO	COOL	DRY	HEAT	FAN
Remote controller	♦	*	٨	≎	\$
Display board	C)	**			

18. Singal sending display

- 19. POWER/SOFT display
- 20. Left/right air flow display

21. TEMP display

Remote controller: to display the TEMP. setting.

- 22. TIMER OFF display
- 23. CLOCK display

24. TEMP button

Used to select your desired temperature.

25 FAN button

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

26. HEALTH AIRFLOW button

Used to set the health airflow mode.

27. SWING UP/DOWN button

Used to select up or down air sending direction.

28. SWING LEFT/RIGHT button

Used to select left/right air flow.

29. FRESH button

Use to set fresh air function.

30. SET button

Used to confirm timer and clock settings.

31. POWER/SOFT button

32. 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.

33. Ambient temp.display

When receiving the remote control signal, display the set temperature and in the rest time the room temperature is displayed and this room temperature is only for reference.

Remote signal receiver

35. ON-OFF button(touch key)

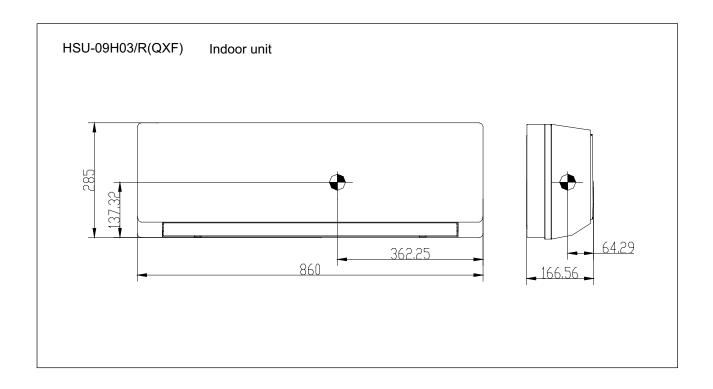
Used to set emergency operation and test operation.

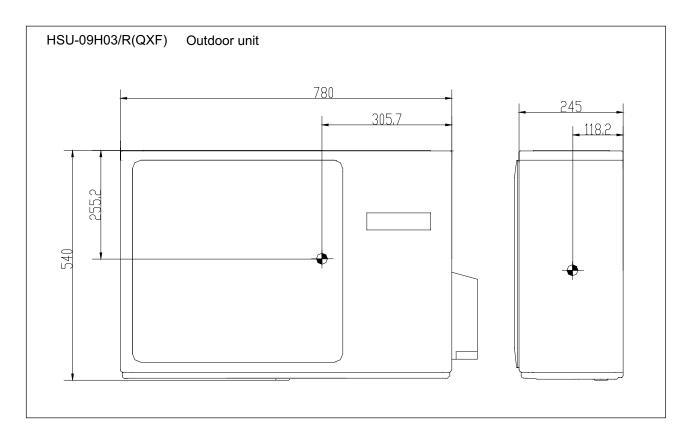
36. HEAT button

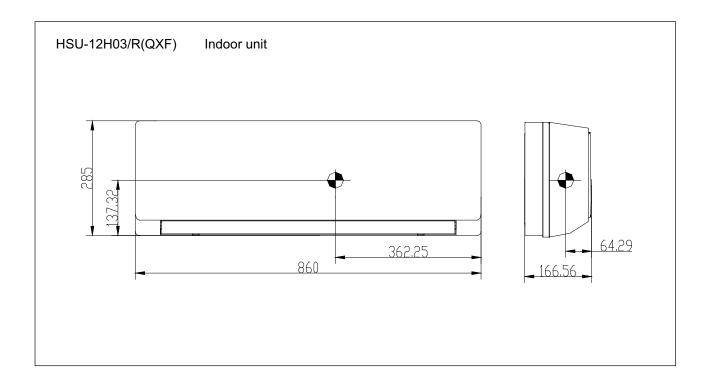
18

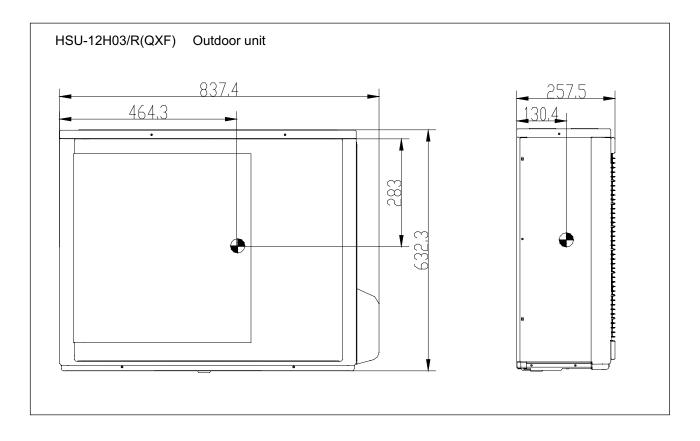
Using for setting the fuction of Subsidiary Electric Heating.

13 Center of gravity



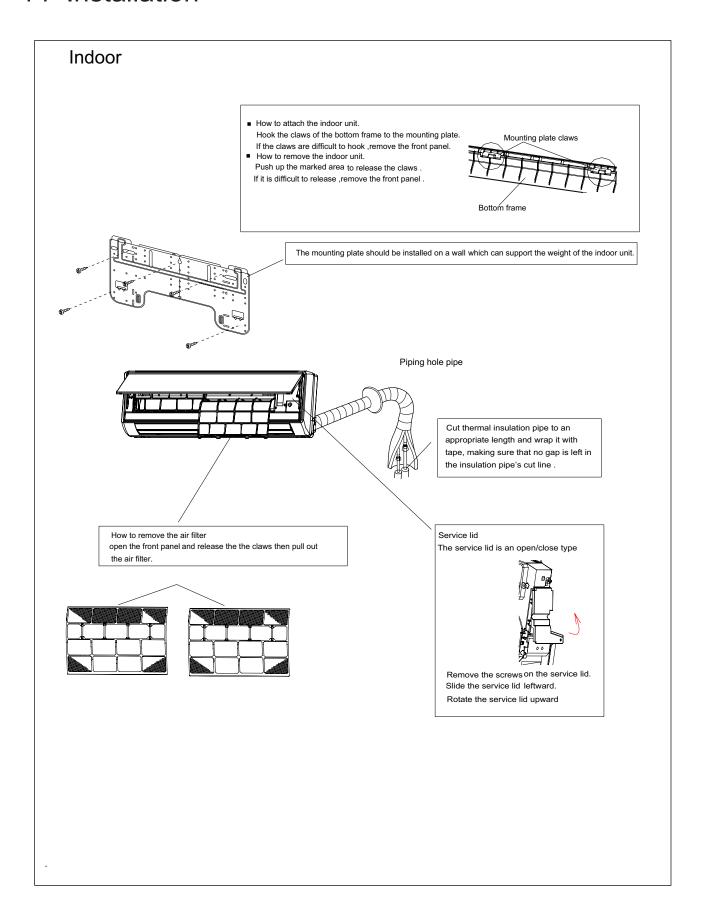








14 Installation

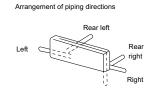


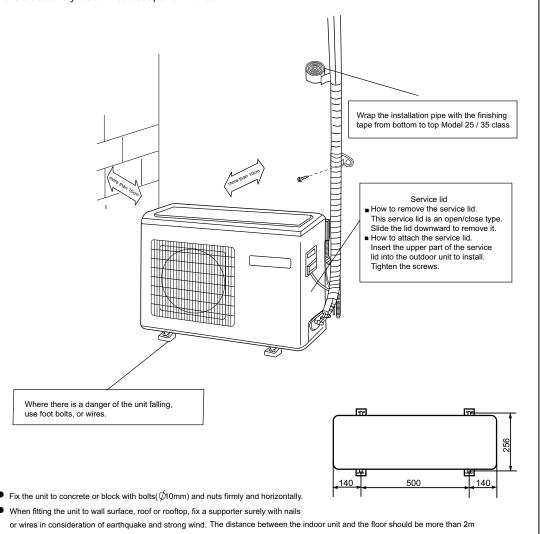
Outdoor

35/40 class		
20m		
10m		
16g/m		
O.D. 9.52/12.7		
O.D. 6.35		

*Be sure to add the proper amount of additional refrigerant. Failuretodosomayresultinreducedperformance.

If vibration may affect the house, fix the unit by attaching a vibration-proof mat.





22

Sincere Forever



Haier Group

Haier Industrial Park, No.1, Haier Road

Edited by:

Guo Xia

266101, Qingdao, China

E-mail: hractech@haier.com

Signed by:

Zhang Lizhi

Tel: +86 532 87636957

Http://www.haier.com

Approved by: Zhu Zhenxue