

Domestic Air conditioner

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.

TECHNICAL DATA

ON/OFF

Wall mounted Type ARC-Series

HSU-18LE03 HSU-22LE03

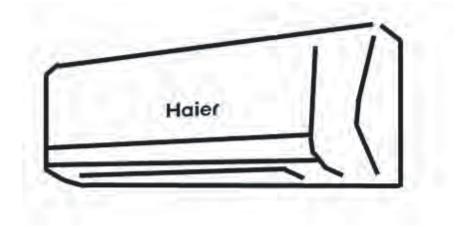


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1 Features



Auto mode: According to the fixed temperature "26°C", 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.



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 .



24Hour 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 after asundden power blackout .



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



Healthy negative ion: make your room full of an abundance natural negative ions.









2.Specifications This information was not available at the time of publication

NOMINALCAPACITY and NOMINAL INPUT								
	Model			HSU-18LE03	HSU-22LE03			
NORMINAL	Cooling(1)	norm.	kw	5.00	6.20			
CAPACITY(3-4)	Heating(2)	norm.	kw					
NORMINAL INPUT	Cooling	norm	kw	1.90	2.35			
NORMINAL INPUT	Heating	norm.	kw					
EER	Cooling			2.63	2.64			
COP	Heating							
ENERGY LABEL(7-8)	Cooling							
LIVEROT LABLE(1-0)	Heating							
ANNUAL ENERGY CONSUMPTION(9)	Cooling		kwh	795	970			

TECHNICAL SPECIFIC	ATIONS						
INDOOR UNITS				HSU-18LE03	HSU-22LE03		
		Н	mm	26	5		
DIMENSIONS	Unit	W	mm	93	8		
		D	mm	182	2		
WEIGHT	Unit		kg	11			
COLOR	Unit			whi	te		
		high	dB(A)	45	48		
SOUND LEVEL	Sound pressure (cooling/heating)(5)	medium	dB(A)	43	45		
		low	dB(A)	40	39		
	Sound power(cooling/heating)(6)	high	dB(A)	45	48		
		high	m ³ /min	11.0	11.5		
	Air flow rate(cooling/heating)	low	m ³ /min	10.3	10.0		
		super low	m ³ /min	9.2	9.8		
FANI		steps		5steps,silent and auto			
FAN	Speed(cooling/heating)	high	rpm	1350	1350		
		medium	rpm	1250	1250		
		low	rpm	1150	1100		
	Туре	Туре					
	Motor output		W	16	16		
AIR FILTER	•			Removable/washable/mildew proof			
REMOTE CONTROLLER				YL-M	107EN		
TEMPERATURE CONTROL				Microcomp	uter control		
		liquid	mm	Ф 6.35	Ф 6.35		
PIPING CONNECTIONS(exte	rnal diameter)	gas	mm	Ф12.7	Ф15.88		
	drain	mm	Ф16	Ф16			
INSULATION MATERIAL	Heat insulation type	•		both liquid a	nd gas pipes		
	TYPE			ML fin - Φ9.	52HI - XA tube		
HEAT EXCHANGGER	Row x stage x fin pinth		mm	2 x	8 x1.4		

TECHNICAL SPECIFICATI	ONS					
OUTDOOR UNITS				HSU-18LE03	HSU-22LE03	
NET DIMENSIONS		Н	mm	540	632	
(stop valve, and bottom support	Unit	W	mm	780	780	
is not included)		D	mm	245	257	
WEIGHT	Unit	•	kg	34	45	
COLOR	Unit			whi	te	
	Sound pressure(cooling/heating)(5)	high	dB(A)	58	60	
SOUND LEVEL	Sound power(cooling/heating)(6)	high	dB(A)	58	60	
		high	m ³ /min	25	30	
	Air flow rate(cooling/heating)	low	m ³ /min			
FAN		high	rpm	880	860	
FAN	Speed(cooling/heating)	low	rpm			
	Туре	Propeller fan				
	Motor output	80	80			
	Refrigerant type	R22				
	Refrigerant charge	kg	0.955	1.40		
	Maximum allowable distance between indoor and outdoor	15				
REFRIGERANT CIRCUIT	Maximum allowable level difference	5				
	Refrigerant control					
	Туре	rotary Compressor				
	Model			48R473AQ-51S	55R613A	
COMPRESSOR	Motor output		w	1800	2100	
	Oil type			SUNISO 4GSI	SUNISO 4GSI	
	Oil charge volume		L	0.27	0.52	
	liquid		mm	Ф 6.35		
PIPING CONNECTIONS	gas		mm	Ф1	2.7/⊕15.88	
	drain	Ф 1	8			
INSULATION MATERIAL	Heat insulation type			both liquid a	nd gas pipes	
	TYPE			ML - Ф9.52	HI - XAbube	
HEAT EXCHANGGER	Row x stage x fin pinth		mm	2 x 8	x1.4	

ELECTRICAL SPECIFICATIONS								
For indoor units only:				HSU-18LE03	HSU-22LE03			
	Nominal running	cooling	Α	0.15	0.15			
	current	heating	Α					
CURRENT	Maximum	cooling	Α	0.15	0.15			
	running current	heating	Α					

For combinat	For combination indoor units+ outdoor units:			HSU-18LE03	HSU-22LE03
	Nominal	cooling	Α	8.9	11.3
	running current	heating	Α		
	Maximum	cooling	Α	12.9	12.6
CURRENT	CURRENT running current Starting	heating	Α		
		cooling	Α	30	42
current	heating	Α			

For indoor units only:			HSU-18LE03	HSU-22LE03	
POWER SUPPLY			VM	VM	
NOMINAL	Phase		1PH	1PH	
DISTRIBUTION	Frequency	Hz	50	50	
SYSTEM	Valla a a		22017	0001	
VOLTAGE	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-18LE03	HSU-22LE03
YL-M07	Υ	Υ
YL-H10	Υ	Υ

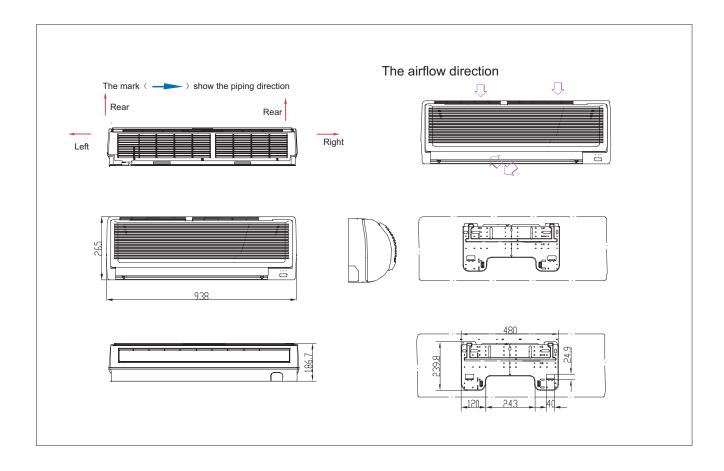
4 Sensors lists

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					



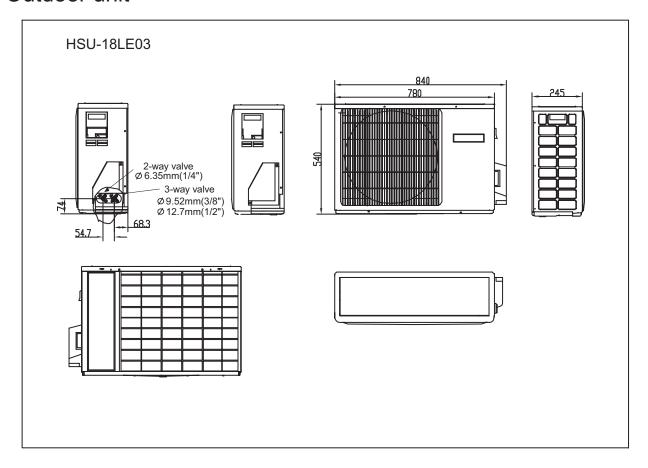
5 Dimensional drawings

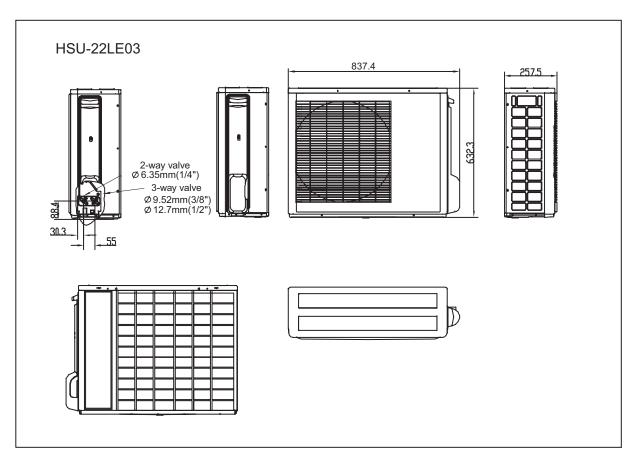
Indoor unit





Outdoor unit





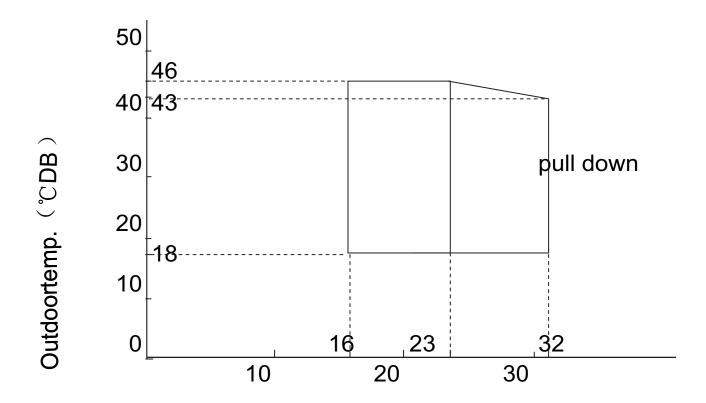




6 Operation range

The name of parts

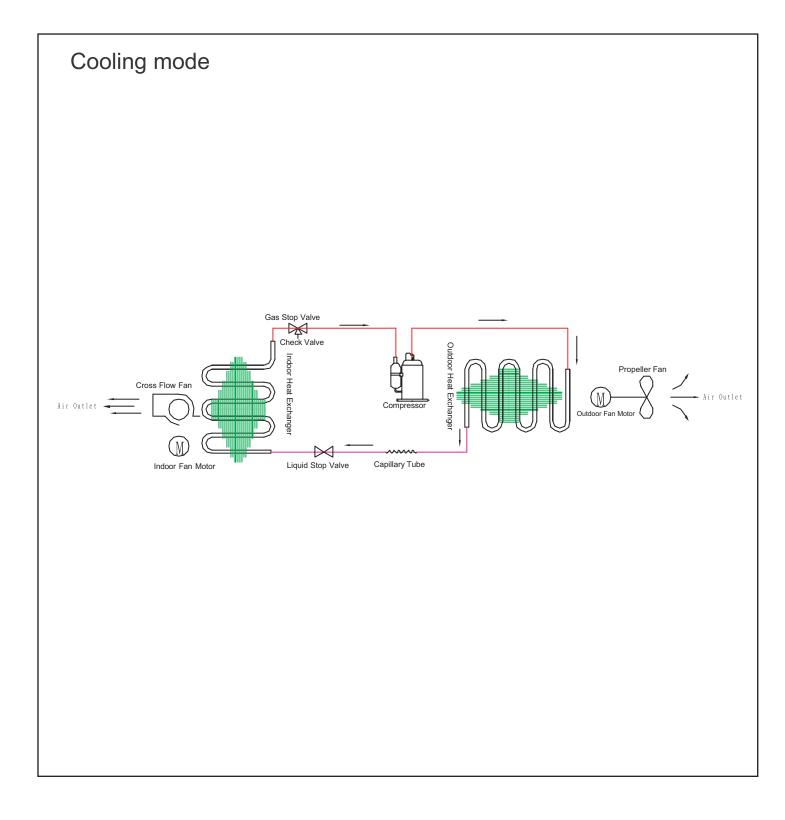
Cooling



indoor temp ($^{\circ}CWB$)



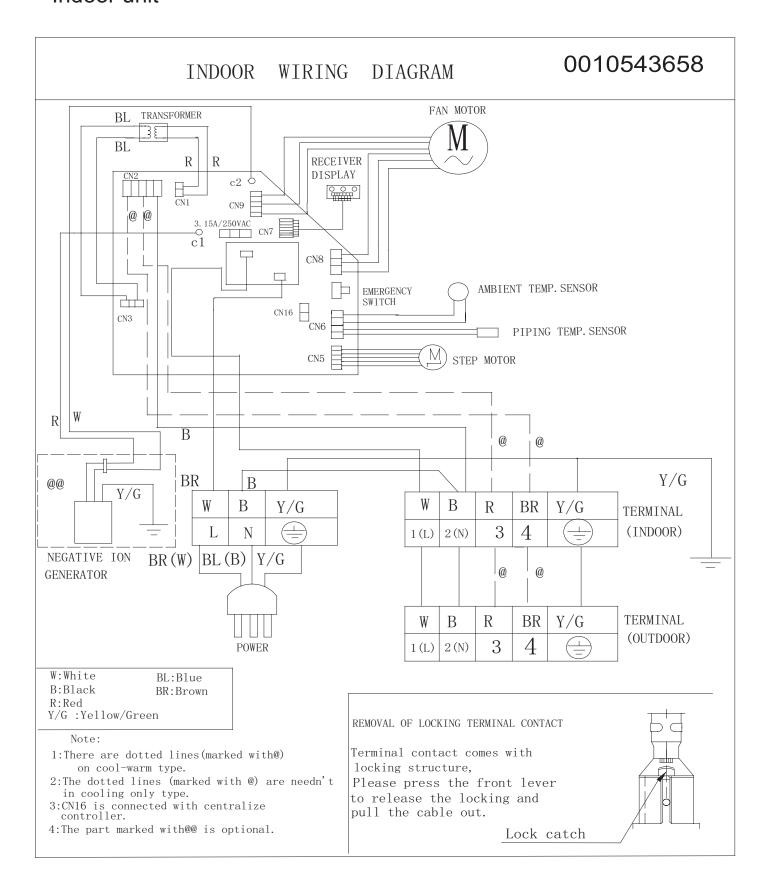
7 Piping diagrams





8 Wiring diagrams

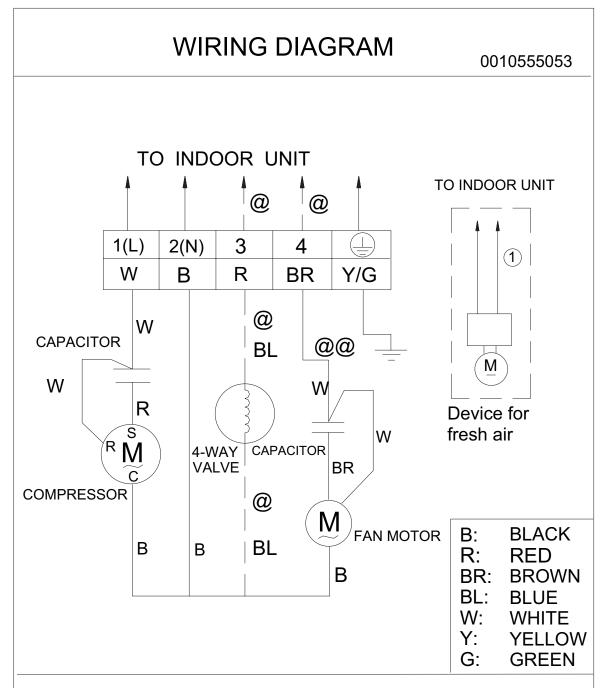
Indoor unit







Outdoor unit



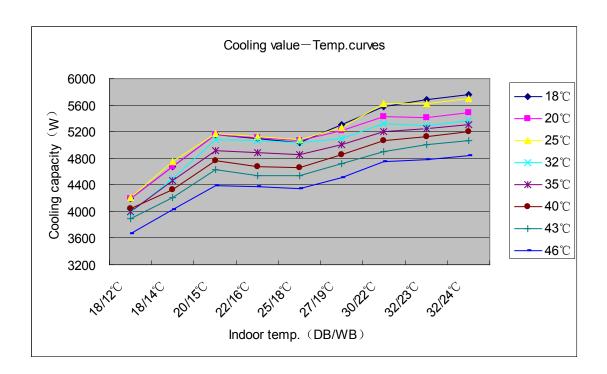
NOTE:

- 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.The 1 is optional part

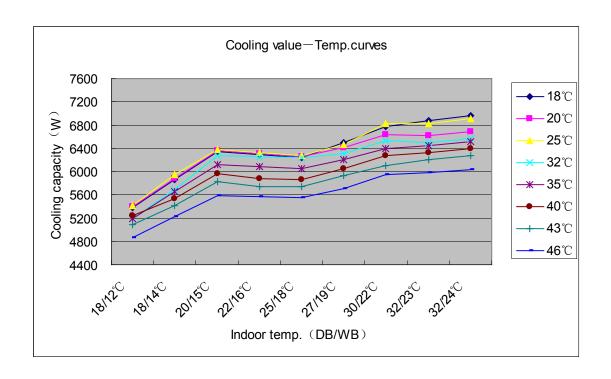


9 Capacity tables and curves diagrams

HSU-18LE03 performance curves										
cooling value-temerature talbe										
indoor temp	indoor temp outdoor temp.(humidity 46%)									
DB/WB	18℃	20℃	25℃	32℃	35℃	40℃	43℃	46℃		
18/12℃	4186	4197	4207	3986	3996	4039	3889	3673		
18/14°C	4669	4680	4747	4495	4458	4328	4216	4030		
20/15℃	5151	5164	5177	5082	4920	4759	4623	4387		
22/16 ℃	5097	5113	5130	5062	4887	4681	4542	4377		
25/18 ℃	5044	5063	5082	5041	4854	4668	4545	4349		
27/19 ℃	5305	5215	5265	5102	5000	4849	4726	4502		
30/22℃	5582	5434	5622	5328	5198	5068	4896	4749		
32/23 ℃	5682	5418	5628	5299	5242	5133	5005	4777		
32/24 ℃	5761	5492	5706	5371	5313	5201	5070	4840		



	HSU-22LE03 performance curves									
cooling value-temerature talbe										
indoor temp	indoor temp outdoor temp.(humidity 46%)									
DB/WB	18℃	20℃	25℃	32℃	35℃	40℃	43℃	46℃		
18/12℃	5386	5397	5407	5186	5196	5239	5089	4873		
18/14 [℃]	5869	5880	5947	5695	5658	5528	5416	5230		
20/15 [℃]	6351	6364	6377	6282	6120	5959	5823	5587		
22/16 ℃	6297	6313	6330	6262	6087	5881	5742	5577		
2 5/18℃	6244	6263	6282	6241	6054	5868	5745	5549		
27/19℃	6505	6415	6465	6302	6200	6049	5926	5702		
30/22℃	6782	6634	6822	6528	6398	6268	6096	5949		
32/23℃	6882	6618	6828	6499	6442	6333	6205	5977		
32/24 ℃	6961	6692	6906	6571	6513	6401	6270	6040		



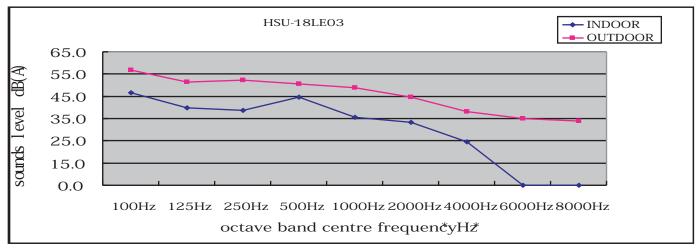
10 Sound level

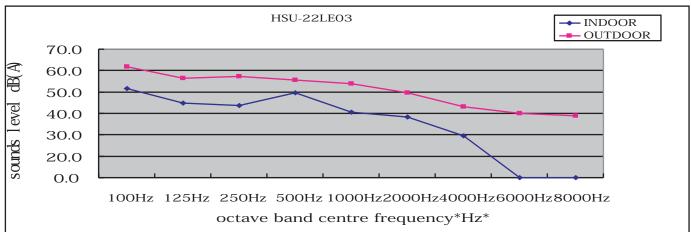
		220 ~ V,5	0Hz	Measuring location	sound power level	
Model		Cooling]	Location of microphone		
	Н	L	SL			
HSU-18LE03	45	43	40		45	
HSU-22LE03	48	45	39	0.8m	48	

Sound level data

HSU-18LE03	100Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	6000Hz	8000Hz
INDOOR	47.7	39.7	38.6	41.6	34.5	31.2	23.7	0.0	0.0
OUTDOOR	58.7	52.5	49.2	47.6	47.9	43.7	38.0	34.9	33.9
HSU-22LE03	100Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	6000Hz	8000Hz
INDOOR	41.7	34.7	33.6	39.6	30.5	28.2	19.7	0.0	0.0
OUTDOOR	61.4	56.7	56.7	53.9	51.8	47.8	41.7	39.7	35.6

Sound pressure spectrum





11 Accessories

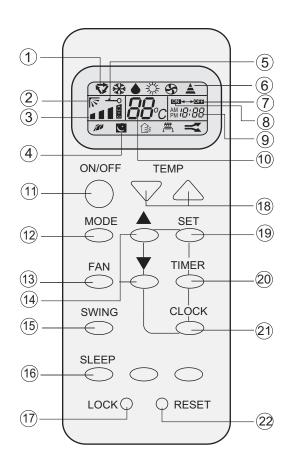
Standard accessories

Standard name	HSU-18LE03	HSU-22LE03		
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

Operation

Buttons and display of the remote controller.



1. Mode display AUTO ₩ COOL ₩ DRY HEAT ♡ FAN -11-41 2. SWING display MED AUTO LO 3. FAN SPEED display 4. SLEEP display 5. LOCK display 6. SIGNAL SENDING 7. TIMER OFF display 8. TIMER ON display 9. CLOCK display 10. TEMP display 11. POWER ON/OFF Used for unit start and stop. 12. MODE Used to select AUTO run, COOL, DRY, HEAT and FAN operation Used to select fan speed LO, MED, HI, AUTO 14. HOUR Used to set clock and timer setting. 15. SWING Used to set auto fan direction. 16. SLEEP Used to select sleep mode. 17. LOCK Used to lock buttons and LCD display. 18. TEMP. Used to select your desired temp. 19. SET Used to confirm timer and clock settings. 20. TIMER Used to select TIMER ON, TIMER OFF, TIMER ON-OFF

21. CLOCK

22. RESET

Used to set correct time

normal condition.

Used to reset the controller back to

Clock set

When unit is started for the first time and after replacing batteries in remote controller, clock should be adjusted as follows:

Press CLOCK button, "AM" or "PM" flashes.

Press \triangle or ∇ to set correct time. Each press will increase or decrease 1min. If the button is kept depressed, time will change quickly.

After time setting is confirmed, press SET, "AM "and "PM" stop flashing, while clock starts working.

NOTE: Cooling only unit do not have displays and functions related with heating

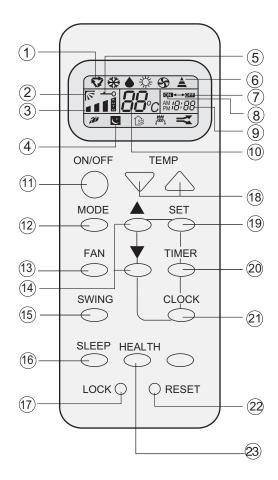
Hints

After replacing with new batteries, remote controller will conduct self-check, displaying all information on LCD. Then, it will become normal.

Operation

Buttons and display of the remote controller.

If the unit which you purchased has healthy function, Remote controller should like the following figure:



1. Mode display AUTO 🌣 COOL ₩ DRY HEAT ♡ FAN § -11--111 2. SWING display 3. FAN SPEED display AUTO 10 MED 4. SLEEP display LOCK display 6. SIGNAL SENDING 7. TIMER OFF display 8. TIMER ON display 9. CLOCK display 10. TEMP display 11. POWER ON/OFF Used for unit start and stop. MODE Used to select AUTO run, COOL, DRY, HEAT and FAN operation 13. FAN Used to select fan speed LO, MED, HI, AUTO 14. HOUR Used to set clock and timer setting. SWING Used to set auto fan direction. 16. SLEEP Used to select sleep mode. 17. LOCK Used to lock buttons and LCD display. 18. TEMP. Used to select your desired temp. 19. SET Used to confirm timer and clock settings. 20. TIMER Used to select TIMER ON, TIMER OFF, TIMER ON-OFF 21. CLOCK Used to set correct time 22. RESET

Used to reset the controller back to

normal condition.

Used to set healthy operation

23. HEALTH

BRIEF INTRODUCTION TO HEALTH OPERATION

The anion generator in the air conditioner can generate a lot of anion to effectively balance the quantity of position and anion in the air and also to kill bacteria and speed up the dust sediment in the room and finally clean the air in the room.

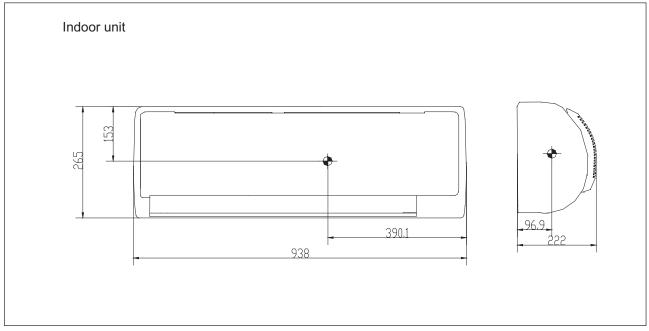
NOTE: Cooling only unit do not have displays and functions related with heating

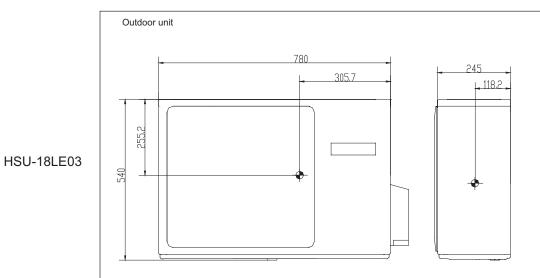
Hints

After replacing with new batteries, remote controller will conduct self-check, displaying all information on LCD. Then, it will become normal.



13 Center of gravity





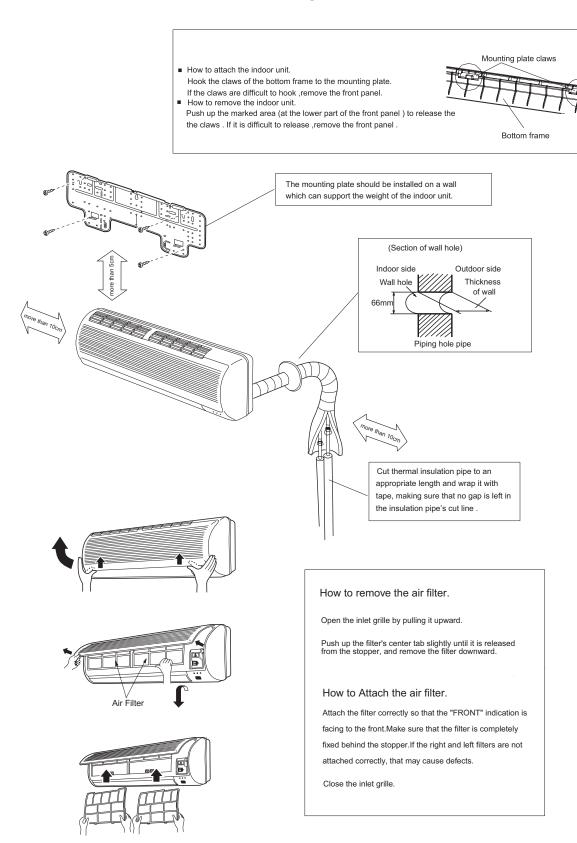
Outdoor unit 838 260 347.2 121 HSU-22LE03 633



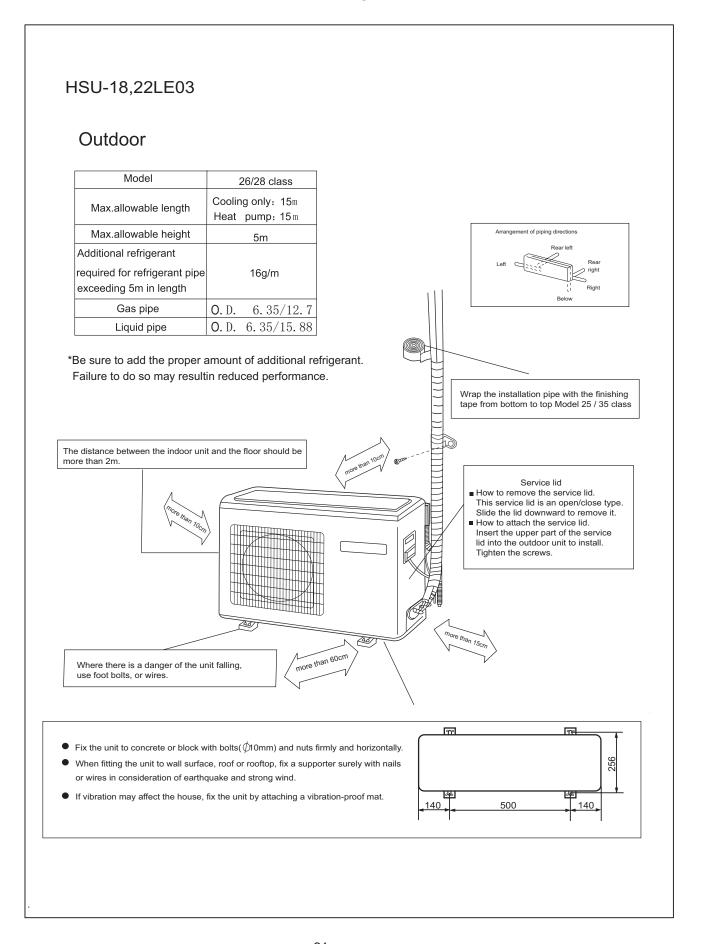


14 Installations

Indoor unit installation drawings



Outdoor unit installation drawings



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