







#### **CAUTION**

**MODEL: HSU-18LE03** 

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

# **SERVICE MANUAL**

### **Air Conditioners**

THIS MANUAL IS USED BY
QUALIFIED APPLIANCE
TECHNICIANS ONLY. HAIER
DOES NOT ASSUME ANY
RESPONSIBILITY FOR PROPERTY
DAMAGE OR PERSONAL INJURY
FOR IMPROPER SERVICE
PROCEDURES DONE BY ONE
UNQUALIFIED PERSON.

REVISION 0



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каталоги, инструкции, сервисные мануалы, схемы.



### **IMPORTANT INFORMATION**







### Features

- Comfortable: wide-angle airflow
- health air purifying
- quiet operation
- super energy efficient

### Main Specification

■ Cooling Capacity: 5000W

● Rated Power/Current(cooling): 1900W/8.9A

●EER: 2.63

Heating Capacity: ---

Rated Power/Current(heating): ---

●COP: ---

● Air Volume(Indoor/outdoor): 620/-m³/h

●Power: 1PH 220V~ 50 Hz



### **Safety Information**

#### **General Information**

This Service Manual describes the operation, disassembly, troubleshooting, and repair of Haier Room Air Conditioners, etc. It is intended for use by authorized servicers who troubleshoot and repair these units.

**NOTE**:It is assumed that users of this manual are familiar with the use of tools and equipment used to troubleshoot and repair electrical,mechanical,and refrigeration systems;and understand the terminology used to describe and discuss them.

Haier urges you read and follow all safety precautions and warnings contained in this manual. Failure to comply with safety information may result in severe personal injury or death.

#### **Related Publications**

This is a base service manual, covering a range of similar models. It is intended to be used in conjunction with the Parts Manual and Technical Sheet covering specific model being serviced.

#### **General Precautions and Warnings**



To avoid risk of personal injury or death due to electrical shock, disconnect electrical power to unit before attempting to service the unit.



To avoid risk of personal injury or death due to electrical shock, **DO NOT**, under any circumstances, alter the grounding plug . Air conditioner must be grounded at all times. Do not remove warning tag from power cord. If a two-prong (non-grounding) wall receptacle is encountered, contact a qualified electrician and have the receptacle replaced with a properly grounder wall receptacle in accordance with the National Electrical Code.



To avoid risk of personal injury or death due to electrical shock,grounding wires and wires colored like grounding wires are **NOT** to be used as current carrying conductors. The standard accepted color coding for ground wires is **green** or **green with a yellow stripe**. Electrical components such as the compressor and fan motor are grounded through an individual wire attached to the electrical component and to another part of the air conditioner. Grounding wires should not to be removed from individual components while servicing, unless the component is to be removed and replaced. It is extremely important to replace all removed grounding wires before completing service.



To avoid risk of heat exposure, which may cause death or severe illness, air conditioner must be monitored when malfunctions or shuts down.



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# **SPECIFICATION**

Model:	HSU-18LE03			Brand Mark	:		Ha	aier		
Cooling Capacity:		5000 W		Frequency Range :		5 0 H z				
	Rated Power/Current :	1900W/8.9A		Power		1PH 220 V~ 50 Hz		Ηz		
Cooling	Max Power/Current :	2500W/12.9A		Indoor motor power		26W				
	EER	2.63								
	Heating Capacity:			Outdoor mo	tor powe	er		30	W	
Heating	Rated Power/Current :		C		r er/Type	RECHI <b>48R473AQ+51S</b>		18		
	Max Power/Current:			Compre	ssor		325CC			
	COP			Oil cha	rge		32300			
Power/C	urrent of					Type/Net C	harge :		R22 955g	
Electric I	Heating:					Турелчего	naige .		1122 300g	
Operati	ng temp. range	-7°C-43°C		Refrigeran	nt	Additional exhausting	· ·	or	50g	
l. d	Н:	1350	r/min				charge if over Standrad Pipe Lenth		35g	ı/m
Indoor Velocity	M :	1250	r/min	Capila			nternal/External		800 3.0	)* 1.8
	L:	1150	r/min	Re		Refer No. :				
	н:	880	r/min	Height of ris	sina	Indoor :		1.3	0mm	
Outdoor	M:		r/min	radiator slic		Outdoor:		1.3	7mm	
Velocity	L:		r/min			Net :			11kg	
				Indoor W		Gross:		14kg		
Air				Outdoor V	Vojaht	Net :	:		34kg	
Volume	Indoor:	620	m³/h	Outdoor v	-	Gross:			39kg	
(High)	Outdoor:		m³/h	Indoor Dime	ension(L	.×W×H):		938	×182×265	mm
Capacito	or of Fan Motor :	3 μ F		Indoor Packaging Dimension(La		.×W×H) 1009 x277x339 mm		9 mm		
Class of	electric Shock Protection			Outdoor Dir	mension	(L×W×H) :		833	×286×540 r	mm
Class of	Water Proof :	IP 24		Outdoor Pa	ckaging	dimension(	L×W×H)	932	×342×619	mm
Moisture	Removal:	1.7×10 <sup>-3</sup> m <sup>3</sup> /h		Refrigerant	liquid /0	Gas pipe Di	ametre		6.35/9.52	mm
Remote	Model:	YL-M07		Pipe		ard Lenth 3n		3n	n	
Controlle	er Refer. No. :			1 ipc	Max Le			m		
Remote Controller Bracket :				Lenth/Diam	etre of D	Orain Hose				
Appearance :				Max. pressure at warm side :		2.65MPa				
Climate Type :		T1		Max.pressure at cool side :		0.65MPa				
Installation Bracket Type :				Evaporator area		0.19m2				
Area available for clooling/heating		30-35	m <sup>2</sup>	Condenser	area		0.26m2			
Max.runi	ning	Dry/Wet ball(indoor): 3	2 / 23	Max.running			Dry/Wet ball(indoor)			
l	-	Все каталоги и инструк	https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicioner		rov.html)					

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### **ELECTRICAL CONTROL**

#### 1. Introduction to electrical control function

Including brief introduction to air conditioners of series models and electric control function.

Brief introduction to electric control function

(1) Automatic running (applicable to fan-coil model)

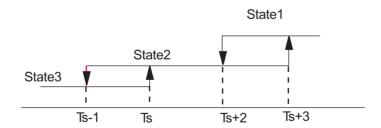
When the running mode is turned to automation after starting the system, the system will first determine the running mode according to the current room temperature and then will run according to the determined mode. Tr in the following selection conditions means room temperature, Ts means setting temperature, Tp means temperature of indoor coil pipe

After turning to the automation mode, the running mode can be switched between refrigerating mode, fan mode according to the change of the indoor ambient temperature.

### (2) Dehumidification running

The compressor, outdoor fan and indoor fan will run as per the following working pattern so as to realize the refrigerating running of dehumidification:

- a.Tr> Ts+2<sub>o</sub>C, compressor, outdoor fan run continuously, indoor fan runs as per setting wind speed (State 1);
- b.Ts+2<sub>o</sub>C>Tr>Ts, compressor, outdoor fan run intermittently with 10 minutes ON, 6 minutes OFF. (Compressor and outdoor fan are synchronous) indoor fan runs in fixed lower wind speed, and will cease at the standby time of 3 minutes (State 2)
- c.Tr <Ts, compressor, outdoor fan ceases, indoor fan runs in lower wind speed after 3 minutes ceases. (State 3)





### (3) Compensatory function of power failure

If the unit is suddenly off during running due to power failure, or closed for maintenance or troubleshooting, it will restart to run after the power resumes with the original condition before the unit is off

Note: 1. Function setting: Pressing the SLEEP button on the remote control unit for 10 times within 5 seconds until hearing 4 sounds from the buzzer on the panel.

2. Memory content: Running mode, setting wind speed, setting temperature, sleep state, flap state.

3. Cancellation of function: Pressing the SLEEP button on the remote control unit for 10 times with in 5 seconds until hearing 2 sounds from the buzzer on the panel.

### (4) Trial run function

When the air conditioner is in OFF state, press the emergency switch for 5 seconds till hearing 2 sounds of click from the buzzer, then the air conditioner will turn to the trial run state. The unit will run in the refrigerating mode and the indoor fan will run in high wind speed mode.

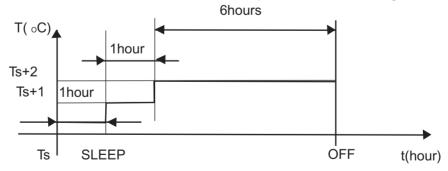
### (5) Emergency running mode

When the air conditioner is in stand-by state, press the emergency switch till hearing a sound from the buzzer, then the air conditioner will turn to the emergency run state. The rules of emergency run are as follows:

a.Tr>23°C, running refrigerating mode, Ts = 26°C;

### (6) Sleeping function

a. After setting the sleeping function, the refrigerating mode and dehumidification mode will run as per the following rules:





# Haie Air Conditioner TROUBLE SHOOTING

### Before asking for service, check the following first.

	Phenomenon	Cause or check points	
	The system does not restart immediately.	<ul> <li>When unit is stopped, it won't restart immediately until 3 minutes have elapsed to protect the system.</li> <li>When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.</li> </ul>	
Normal Performance inspection	Noise is heard:	<ul> <li>During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.)</li> <li>During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes.</li> <li>Should there be a big noise from air flow in unit operation, air filter may be too dirty.</li> </ul>	
	Smells are generated.	This is because the system circulates smells from the interior air such as the smell of furniture, cigarettes.	
	Mist or steam are blown out.	During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.	
Multiple check	Does not work at all.	<ul><li>Is power plug inserted?</li><li>Is there a power failure?</li><li>Is fuse blown out?</li></ul>	
	Poor cooling	<ul> <li>Is the air filter dirty? Normally it should be cleaned every 15 days.</li> <li>Are there any obstacles before inlet and outlet?</li> <li>Is temperature set correctly?</li> <li>Are there some doors or windows left open?</li> <li>Is there any direct sunlight through the window during the cooling operation? (Use curtain)</li> <li>Are there too much heat sources or too many people in the room during cooling operation?</li> </ul>	



# TROUBLE SHOOTING

#### **Table for Wrong Codes**

lights indication		rooconc	wave and moons	solutions	tools	
power time run		reasons	ways and means	Solutions	เบบเร	
				Check the sensor of		
				indoor ambient		
			Sensor is	temperature , if the		
			shorted out	resistance value is 0		
			or opened	or ∞,the sensor is	Change the	
*			ci rcui t	abnormal.	sensor	Multimeter
				Check the sensor of		
			Sensor is	indoor coilpipe, if		
			shorted out	the resistance value		
			or opened	is 0 or ∞,the sensor	Change the	
*			circuit	is abnormal.	sensor	Multimeter
				check whether indoor motor		
				has 80~170V voltage, if it		
				has, wiring board is normal,		
				then check whether the	Change the	
				optical SCR is good, replace	capacitor or	
				it if it is has flaw; else check	optical SCR	
			whether there are something	or		
			Indoor fan	wrong with connecting line,	connecting	
			motor don'	indoor fan motor cpacitor	line or	
		*	t feed back	and coil assembly	indoor PCB	Multimeter
						Multimeter
			Data error	Check whether the		and
			or no	EEPROM is installed	Change the	electric
<b>*</b>		<b>*</b>	EEPROM	properly	EEPROM	i ron

	stand for the light is flickering.	stand for light is extinguished, stand for light is o
		Totalia for light to extilligation out



### INSTALLATION

- Read this manual before installation
- Explain sufficiently the operating means to the user according to this manual.

### **Necessary Tools for Installation**

1.Driver 5.Torque wrench(17mm,22mm,26mm)

8.Knife

2.Hacksaw 6.Pipe cutter 3.Hole core drill 7.Flaring tool

4.Spanner(17,19 and 26mm)

9.Nipper

12.Reamer

10.Gas leakage detector or soap-and-water solution

11.Measuring tape

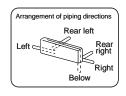
### Drawing for the installation of indoor and outdoor units

#### Accessory parts

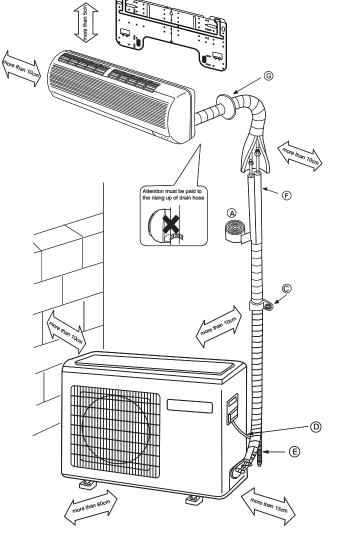
No.	Accessory parts	Number of articles
1	Remote controller	1
2	R-03 dry battery	2
3	Mounting plate	1
4	Drain hose	1
(5)	Φ4X50 Steel nail, cement	6
6	φ4X25 Screw Plastic cap	4
7	Drain-elbow	1
8	Cover	1
9	Cushion	4
10	Pipe supporting plate	1

#### Optional parts for piping

Mark	Parts name	
A	Non-adhesive tape	
B	Adhesive tape	
©	Saddle(L.S) with screws	
<b>(D)</b>	Connecting electric cable for indoor and outdoor	
Œ	Drain hose	
Ē	Heating insulating material	
G	Piping hole cover	



Note:Cooling only units don't have Drain-elbow



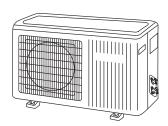
- X The marks from Ato G in the figure are the parts numbers.
- X The distance between the indoor unit and the floor should be more than 2m.

No.0010561651

### INSTALLATION



Floor fixing dimensions of the outdoor unit (Unit:mm)



HSU-18LE03

### Fixing of outdoor unit

- Fix the unit to concrete or block with bolts( $\phi$ 10mm) 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.

### **Indoor Unit**

### Selection of Installation Place

### Outdoor Unit

- Place, robust not causing vibration, where the body can be supported sufficiently.
- Place, not affected by heat or steam generated in the vicinity, where inlet and outlet of the unit are not disturbed.
- Place, possible to drain easily, where piping can be connected with the outdoor unit
- Place, where cold air can be spread in a room entirely.
- Place, nearby a power receptacle, with enough space around. (Refer to drawings).
- Place where the distance of more than Im from televisions, radios, wireless apparatuses and fluorescent lamps can be left.
- In the case of fixing the remote controller on a wall, place where the indoor unit can receive signals when the fluorescent lamps in the room are lightened.

- Place, which is less affected by rain or direct sunlight and is sufficiently ventilated.
- Place, possible to bear the unit, where vibration and noise are not increased.
- Place, where discharged wind and noise do not cause a nuisance to the neighbors.
- Place, where a distance marked ⇐⇒ is available as illustrated in the above figure.

### Power Source

- Before inserting power plug into receptacle, check the voltage without fail. The power source is the same as the corresponding name plate.
- •Install an exclusive branch circuit of the power.
- A receptacle shall be set up in a distance where the power cable can be reached. Do not extend the cable by cutting it.

### Selection of pipe

- To this unit, both liquid and gas pipes shall be insulated as they become low temperature in operation.
- Use optional parts for piping set or pipes covered with equivalent insulation material.
- The thickness of the pipe must be 0.8 mm at least.

	<b>HSU</b> -18LE03	
Liquid pipe( $\phi$ )	6.35mm(1/4")	
Gas pipe( $\phi$ )	12.7mm(1/2")	



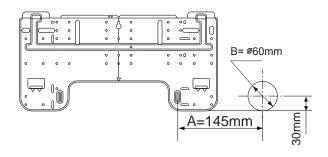
## **INSTALLATION**

# Indoor unit

### 1. Fitting of the Mounting Plate and Positioning of the wall Hole

### When the mounting plate is first fixed

- 1. Carry out, based on the neighboring pillars or lintels, a proper leveling for the plate to be fixed against the wall, then temporarily fasten the plate with one steel nail.
- 2. Make sure once more the proper level of the plate, by hanging a thread with a weight from the central top of the plate, then fasten securely the plate with the attachment steel nail.
- 3. Find the wall hole location A using a measuring tape

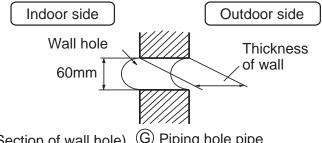


### When the mounting plate is fixed side bar and lintel

- Fix to side bar and lintel a mounting bar, Which is separately sold, and then fasten the plate to the fixed mounting bar.
- Refer to the previous article, " (When the mounting plate is first fixed) position of wall hole.

### 2. Making a Hole on the Wall and Fitting the Piping Hole Cover

- Make a hole of 60 mm in diameter, slightly descending to outside the wall.
- Install piping hole cover and seal it off with putty after installation



### 3.Installation of the Indoor Unit

### Drawing of pipe

### [Rear piping]

• Draw pipes and the drain hose, then fasten them with the adhesive tape [Left • Left-rear piping]

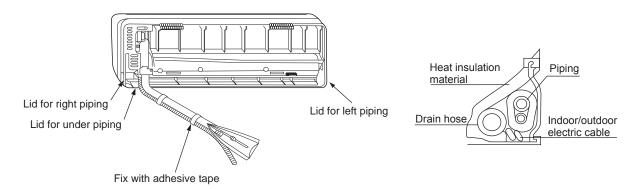
- In case of left side piping, cut away, with a nipper, the lid for left piping.
- In case of left-rear piping, bend the pipes according to the piping direction to the mark of hole for left-rear piping which is marked on heat insulation materials.



### INSTALLATION

# Indoor unit

- 1. Insert the drain hose into the dent of heat insulation materials of indoor unit.
- 2. Insert the indoor/outdoor electric cable from backside of indoor unit, and pull it out on the front side, then connect them.
- Coat the flaring seal face with refrigerant oil and connect pipes.Cover the connection part with heat insulation materials closely, and make sure fixing with adhesive tape



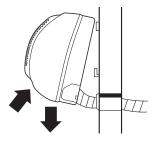
• Indoor/outdoor electric cable and drain hose must be bound with refrigerant piping by protecting tape.

### [Other direction piping]

- Cut away, with a nipper, the lid for piping according to the piping direction and then bend the pipe according
  to the position of wall hole. When bending, be careful not to crash pipes.
- Connect beforehand the indoor/outdoor electric cable, and then pull out the connected to the heat insulation
  of connecting part specially.

### Fixing the indoor unit body

- Hang surely the unit body onto the upper notches of the mounting plate. Move the body from side to side to verify its secure fixing.
- In order to fix the body onto the mounting plate, hold up the body aslant from the underside and then put it down perpendicularly.



Edition:2006/8/25

### 4. Connecting the indoor/outdoor Electric Cable

### Removing the wiring cover

 Remove terminal cover at right bottom corner of indoor unit, then take off wiring cover by removing its screws.

### When connecting the cable after installing the indoor unit

- 1. Insert from outside the room cable into left side of the wall hole, in which the pipe has already existed.
- 2. Pull out the cable on the front side, and connect the cable making a loop.





### **INSTALLATION**

# Indoor unit

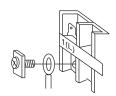
### When connecting the cable before installing the indoor unit

- Insert the cable from the back side of the unit, then pull it out on the front side.
- Loosen the screws and insert the cable ends fully into terminal block, then tighten the screws.
- Pull the cable slightly to make sure the cables have been properly inserted and tightened.
- After the cable connection, never fail to fasten the connected cable with the wiring cover.

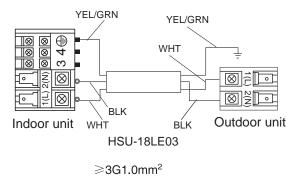
Note: When connecting the cable, confirm the terminal number of indoor and outdoor units carefully. If wiring is not correct, proper operation can not be carried out and will cause defect.

- 1. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05RN-F or H07RN-F.
- 2. If the fuse on PC board is broken please change it with the type of T. 3.15A/250V.
- 3. The wiring method should be in line with the local wiring standard.
- 4. After installation, the power plug should be easily reached.
- 5. A breaker should be incorporated into fixed wiring. The breaker should be all-pole switch and the distance between its two contacts should be not less than 3mm.









Connecting wiring:

Power cable:

-mod 09-12: \*3G1.0mm<sub>2</sub>

-mod 09-12: \*3G1.0mm<sub>2</sub>



### INSTALLATION

# Outdoor unit

### Outdoor unit

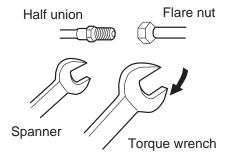
### 1.Installation of Outdoor Unit

Install according to

(Drawing for the installation of indoor and outdoor units

### 2. Connection of pipes

- To bend a pipe, give the roundness as large as possible not to crush the pipe
- Connecting the pipe of gas side first makes working easier.
- The max vertical distance between the indoor unit and the outdoor unit is 5 m.



Forced fastening without careful centering
may damage the threads and cause a
leakage of gas.

Pipe Diameter ( $\phi$ )	Fastening torque
Liquid side 6.35mm(1/4")	18N.m
Gas side 9.52mm(3/8")	40N.m
Gas side 12.7mm(1/2")	55N.m
Gas side 15.88mm(5/8")	60N.m

Be careful that matters, such as wastes of sands, etc. shall not enter the pipe.

### 3.Connection

- Use the same method on indoor unit. Loosen the screws on terminal block and insert the plugs fully into terminal block, then tighten the screws.
- Insert the cable according to terminal number in the same manner as the indoor unit.
- If wiring is not correct, proper operation can not be carried out and controller may be damaged.
- Fix the cable with a clamp.

### 4. Attaching Drain-Elbow

 If the drain-elbow is used, please attach it as figure. (Note: Only for heat pump unit.)





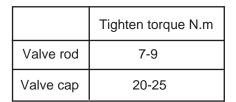
## INSTALLATION

# Outdoor unit

### 5. Purging Method:

Push the air out of the indoor unit and piping as followes:

- (1) Remove the valve cap on 2-way valve in outdoor unit.
- (2) Loosen by 1/2 turn the flare nut of gas pipe, which is conneted to 3-way valve.
- (3) Loosen 2-way valve by 90o using hexagon wrench, and after approx. 10 sec tighten it up. Gas comes out through flare nut on wide pipe. If no gas is discharged, tighten flare nut with specified torque.
- (4) Open 2-way and 3-way valves using specified torque.
- (5) Tighten the caps on the valves with specified torque.



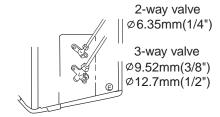
• When connecting pipe exceeds 5 meters, 16g refrigerant shall be added per exceeding meter. Charge according to the following list.

Piping length	5m	7m	10m
Additional amount	No need	32g	80g

 Note: When extending piping, air inside piping shall be removed by using external refrigerant gas, charge according to the following list.

Brand new outdoor unit is charged 50g more refrigerant than regulated weight. Only for first installation, this extra 50g can be used to purge air in pipes.

★ 1 During this procedure, 50g refrigerant will be discharged in piping. (This must be strictly controlled within 90o and 10 sec.)



HSU-18LE03



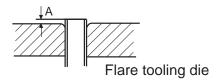
## INSTALLATION

### 1.Power Source Installation

- The power source must be exclusively used for air conditioner. (Over I0A)
- In the case of installing an air conditioner in a moist place, please install an earth leakage breaker.
- For installation in other places, use a circuit breaker as far as possible.

### 2. Cutting and Flaring Work of Piping

- Pipe cutting is carried out with a pipe cutter and burs must be removed.
- After inserting the flare nut, flaring work is carried out.



	Pipe diameter( $\phi$ )	Size A(mm)
Liquid side	6.35mm(1/4")	0.8~1.5
Gas side	9.52mm(3/8")	1.0~1.8
Gas side	12.7mm(1/2")	1.2~2.0
Gas side	15.88mm(5/8")	1.4~2.2

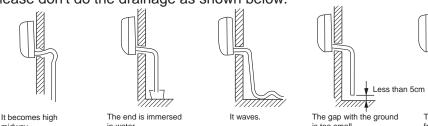
Edition:2006/8/25

Correct	Incorrect				
	Lean Damage of flare Crack			Partial	Too outside

### 3.On Drainage

Please install the drain hose so as to be downward slope without fail.

Please don't do the drainage as shown below.



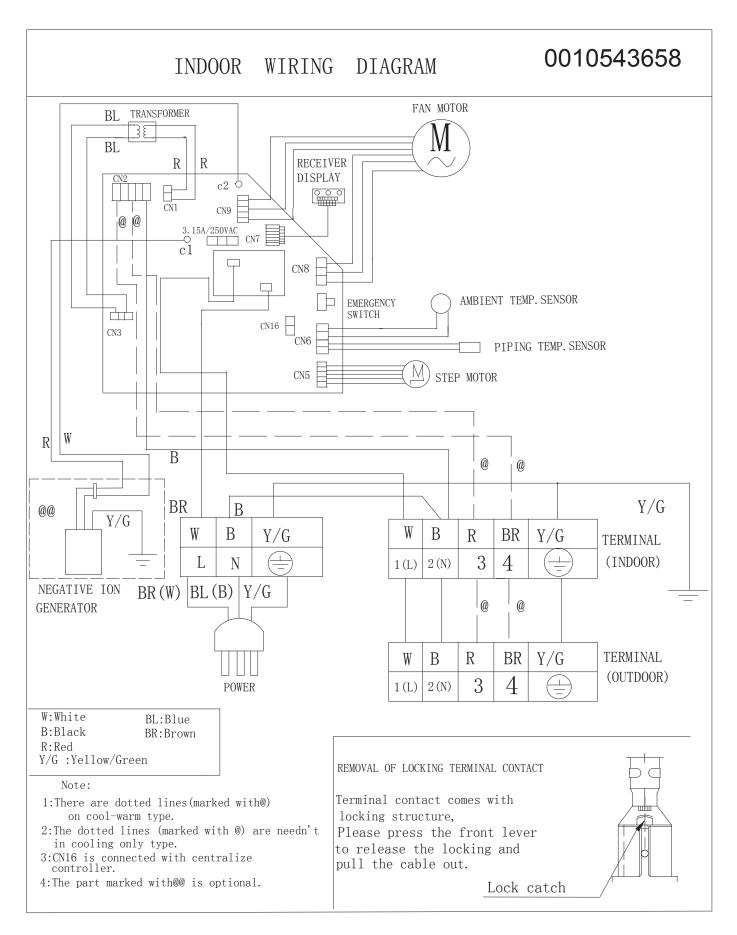
- Please pour water in the drain pan of the indoor unit, and confirm that drainage is carried out surely to outdoor.
- In case that the attached drain hose is in a room, please apply heat insulation to it without fail.

### Check for Installation and Test Run

Please kindly explain to our	customers now to operate thi	ough the instruction manual.
Check Items for Test Run	Put check mark ✓ in boxes	
☐ Gas leak from pipe connecting?	☐ Is drainage securely carried out?	☐ Is the lamp normally lighting?
☐ Heat insulation of pipe connecting?	☐ Is the earth line securely	□ Are cooling and heating (when
☐ Are the connecting wirings of	connected?	in heat pump) performed normally?
indoor and outdoor firmly inserted	☐ Is the indoor unit securely fixed?	☐ Is the operation of room temperature
to the terminal block?	☐ Is power source voltage abided	regulator normal?
☐ Is the connecting wiring of indoor	by the code?	
and outdoor firmly fixed?	☐ Is there any noise?	

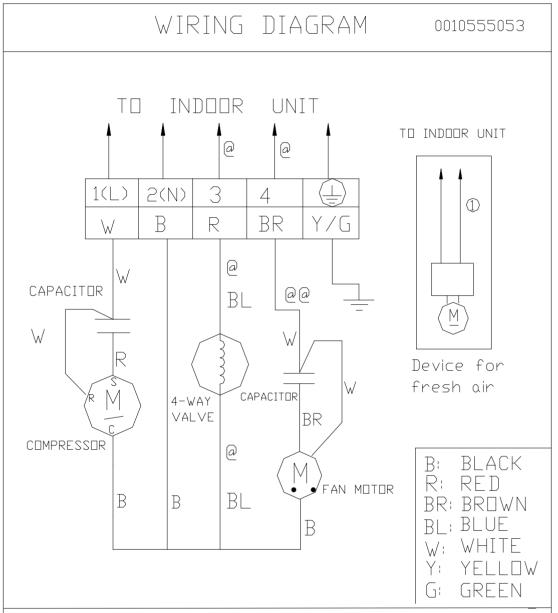


## **WIRING DIAGRAM**





## WIRING DIAGRAM



#### 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





# THERMISTER RESISTANCE CHART

### room temperature sensor

T/°	D(KO)		
T(°C)	R(K Ω )	VOLTAGE(V)	
-20	251.8	0.33	
-19	236.9	0.35	
-18	223.1	0.37	
17	210.1	0.40	
-16	197.9	0.42	
-15	186.5	0.45	
	175.9	0.47	
-13	165.9	0.50	
12	156.5	0.53	
11	147.7	0.56	
-10	139.5	0.59	
-9	131.8	0.62	
8	124.5	0.65	
	117.7	0.69	
-6	111.3	0.73	
-5	105.3	0.76	
-4	99.63	0.80	
-3	94.3	0.84	
-2	89.3	0.88	
-1	84.58	0.92	
0	80.14	0.97	
1	75.96	1.01	
2	72.02	1.06	
3	68.31	1.10	
4	64.81	1.15	
5	61.51	1.20	
6	58.39	1.25	
7	55.45	1.00	
8	52.68	1.35	
9	50.06	1.41	
10	47.58	1.46	
11	45.24	1.51	
12	43.02	1.57	
13	40.93	1.63	
14	38.95	1.68	
15	37.08	1.74	
16	35.31	1.80	
17	33.63	1.85	
18	32.04	1.91	
19	30.53	1.97	



# Haief Air Conditioner Edition: 2006/0

20	29.1	2.00	
21	27.75	2.09	
22	26.47	2.15	
23	25.25	2.21	
24	24.1	2.27	
25	23.0	2.33	
26	21.96	2.38	
27	20.97	2.44	
28	20.03	2.50	
29	19.14	2.56	
30	18.3	2.62	
31	17.49	2.67	
32	16.73	2.73	
33	16.0	2.78	
34	15.3	2.84	
35	14.65	2.89	
36	14.02	2.95	
37	13.42	3.00	
38	12.85	3.05	
39	12.31	3.10	
40	11.79	3.15	
41	11.30	3.20	
42	10.83	3.25	
43	10.39	3.30	
44	9.96	3.35	
45	9.553	3.39	
46	9.165	3.44	
47	8.794	3.48	
48	8.441	3.52	
49	8.103	3.57	
50	7.78	3.51	
51	7.472	3.65	
52	7.178	3.68	
53	6.897	3.72	
54	6.628	3.76	
55	6.371	3.80	
56	6.125	3.83	
57	5.889	3.37	
58	5.664	3.90	
59	5.449	3.93	
60	5.243	3.96	
61	5.046	3.99	
62	4.857	4.02	





# Haief Air Conditioner Edition: 2006/0

63	4.676	4.05	
64	4.502	4.08	
65	4.336	4.11	
66	4.177	4.13	
67	4.024	4.16	
68	3.878	4.18	
69	3.738	4.21	
70	3.603	4.23	
71	3.474	4.25	
72	3.35	4.28	
73	3.231	4.30	
74	3.117	4.32	
75	3.008	4.34	
76	2.903	4.36	
77	2.802	4.38	
78	2.705	4.40	
79	2.611	4.42	
80	2.522	4.43	

### INDOOR PIPE TEMPERATURE SENSOR

<b>T</b> (℃)	<b>R</b> ( <b>K</b> Ω )	VOLTAGE(V)	
-20	87.42	0.90	
-19	82.71	0.95	
-18	78.29	0.99	
-17	74.12	1.04	
-16	70.21	1.08	
-15	66.52	1.13	
-14	63.06	1.18	
-13	59.79	1.23	
-12	56.71	1.28	
-11	53.81	1.33	
-10	51.08	1.39	
-9	48.5	1.44	
-8	46.07	1.50	
-7	43.77	1.55	
-6	41.6	1.61	
-5	39.55	1.66	
-4	37.62	1.72	





# Haief Air Conditioner Edition: 2006/0

-3	35.79	1.78	
-2	34.06	1.84	
-1	32.43	1.90	
0	30.88	1.98	
1	29.42	2.01	
2	28.03	2.07	
3	26.72	2.13	
4	25.48	2.19	
5	24.3	2.25	
6	23.18	2.31	
7	22.12	2.37	
8	21.12	2.43	
9	20.17	2.49	
10	19.26	2.54	
11	18.4	2.60	
12	17.59	2.56	
13	16.81	2.72	
14	16.08	2.77	
15	15.38	2.83	
16	14.71	2.88	
17	14.08	2.93	
18	13.48	2.99	
19	12.91	3.04	
20	12.36	3.09	
21	11.84	3.14	
22	11.35	3.19	
23	10.88	3.24	
24	10.43	3.29	
25	10.00	3.33	
26	9.59	3.38	
27	9.20	3.42	
28	8.833	3.47	
29	8.479	3.51	
30	8.141	3.55	
31	7.819	2.59	
32	7.511	3.63	
33	7.217	3.67	
34	6.936	3.71	
35	6.668	3.75	
36	6.411	3.78	
37	6.166	3.82	
38	5.931	3.86	
39	5.707	3.89	

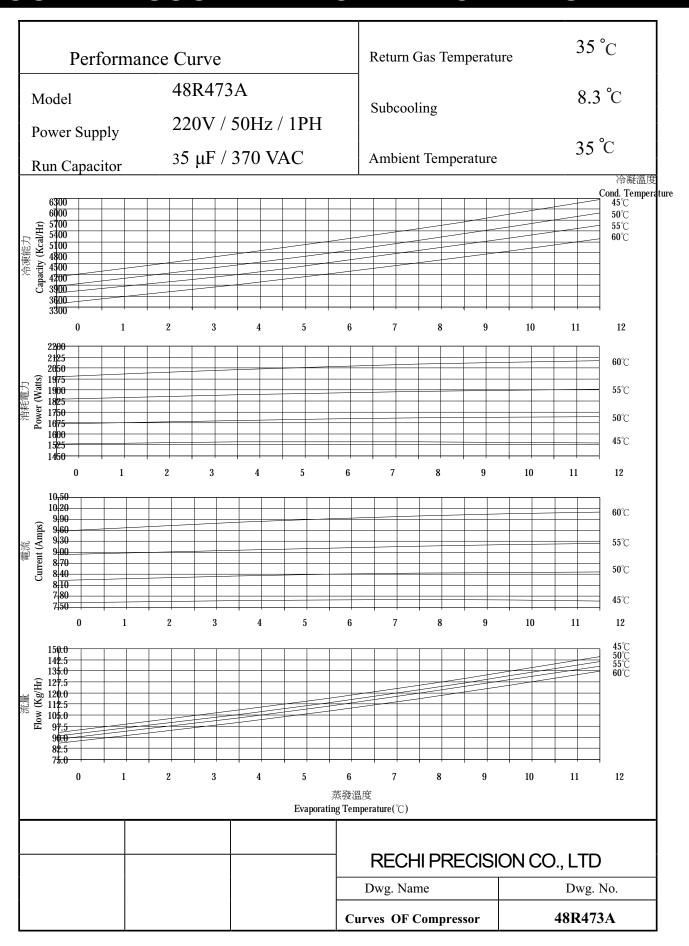


# Haief Air Conditioner Edition: 2006/0 THERMISTER RESISTANCE CHART

40	5.492	3.92	
41	5.287	3.95	
42	5.09	3.98	
43	4.902	4.01	
44	4.722	4.04	
45	4.549	4.07	
46	4.383	4.10	
47	4.225	4.12	
48	4.073	4.15	
49	3.927	4.17	
50	3.788	4.20	
51	3.654	4.22	
52	3.525	4.24	
53	3.402	4.26	
54	3.283	4.28	
55	3.17	4.31	
56	3.061	4.33	
57	2.956	4.35	
58	2.855	4.37	
59	2.759	4.38	
60	2.666	4.40	
61	2.577	4.42	
62	2.491	4.44	
63	2.408	4.45	
64	2.329	4.47	
65	2.253	4.48	
66	2.179	4.50	
67	2.108	4.51	
68	2.04	4.53	
69	1.975	4.54	
70	1.912	4.55	
71	1.851	4.57	
72	1.793	4.58	
73	1.737	4.59	
74	1.682	4.60	
75	1.63	4.61	
76	1.58	4.62	
77	1.531	4.63	
78	1.484	4.64	
79	1.439	4.65	
80	1.395	4.66	



### COMPRESSOR PERFORMANCE DIAGRAM







SOUND PRESSURE LEVEL

## INDOOR: 42.9/41.4/38.9dB(A)

**OUTDOOR:** 56. 3 **dB(A)** 

### NOTE:

The sound pressure level is based on the following conditions:

1 meter above the discharge grille and 1 meter from the front side.

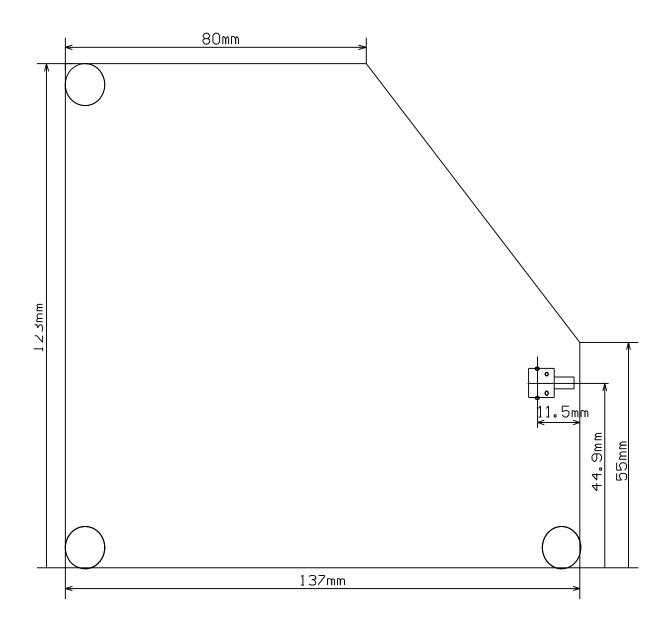
Voltage of the power source for the indoor fan motor is 220V.

In case of the power source of 240V, the sound pressure level increases by about 1 dB.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

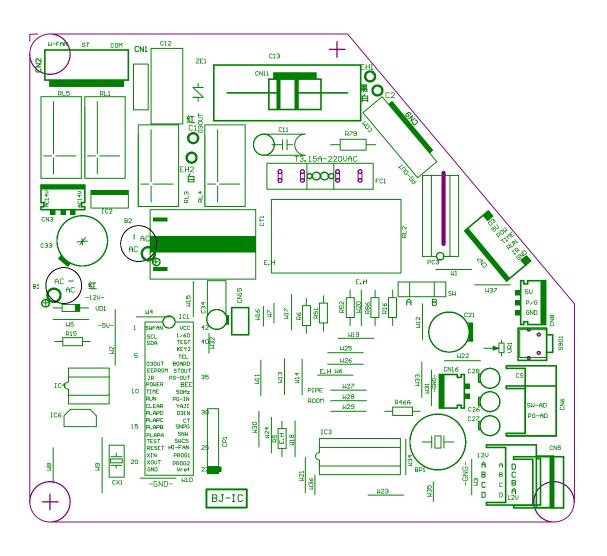


SIZE



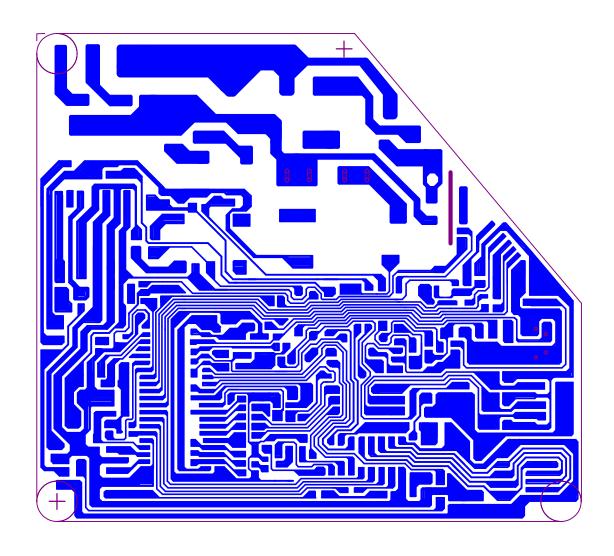


### TOP SILK SCREEN VIEW



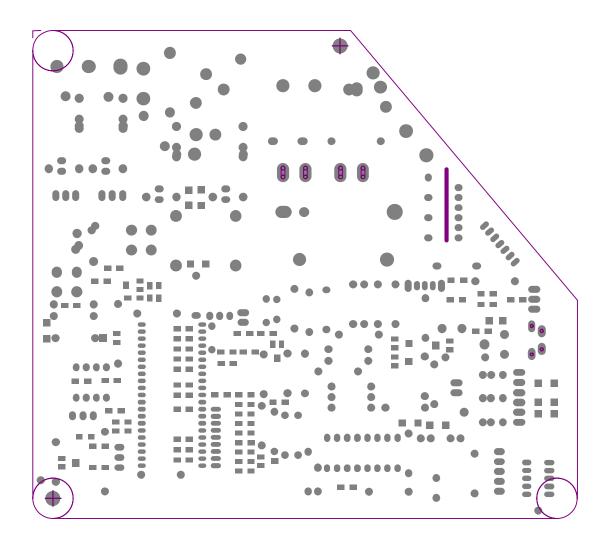


### **BOTTOM WIRING VIEW**



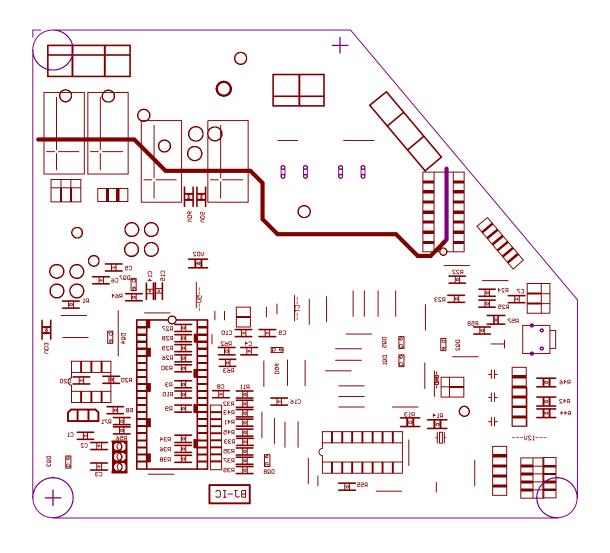


### **WELDING VIEW**



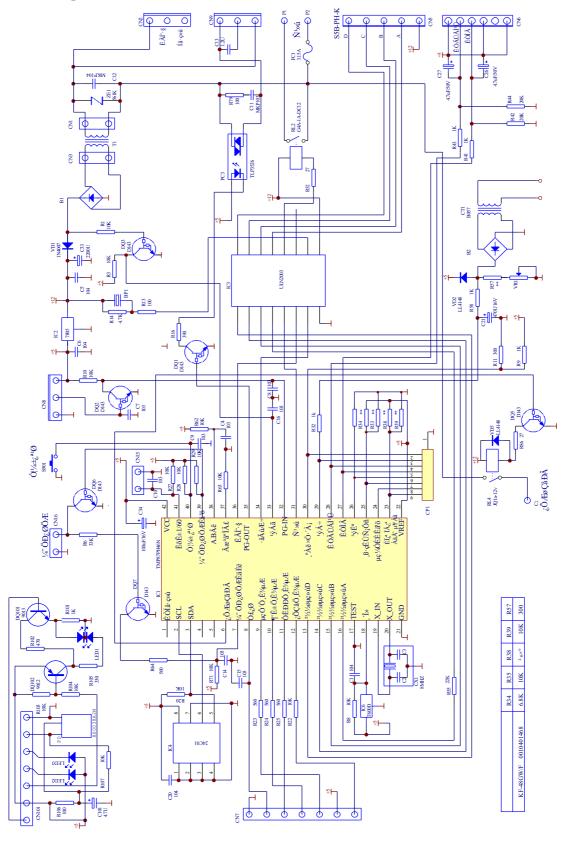


### **BOTTOM SILK SCREEN VIEW**





### **RCUIT DIAGRAM**





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