

10. High Wall Type Indoor Unit

10.1 Features



CH43BV022-HYJ1H
CH43BV028-HYJ1H
CH43BV036-HYJ1H
CH43BV045-HYJ1H
CH43BV056-HYJ1H
CH43BV071-HYJ1H

- EEV inside put
- The EEV box inside put, easy for installation
- High-quality DC fan motor, reduce the indoor unit noise greatly new fashion design

10.2 Specification

MODEL			CH43BV022- HYJ1H	CH43BV028- HYJ1H	CH43BV036- HYJ1H
Power supply		Ph-V-Hz	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60
Cooling	Capacity	kBtu/h	7.5	9.6	12.3
	Capacity	kW	2.2	2.8	3.6
	Power input	W	71	71	71
	Current	A	0.31	0.31	0.31
Heating	Capacity	kBtu/h	8.5	10.9	13.6
	Capacity	kW	2.5	3.2	4.0
	Power input	W	71	71	71
	Current	A	0.31	0.31	0.31
	Heating capacity at low temp.	kW	2	2.5	3.2
Operating current		A	0.25	0.25	0.25
Power consumption		kW	0.05	0.05	0.05
Indoor motor	Brand		SHINANO	SHINANO	SHINANO
	Model		DR-8838-801A	DR-8838-801A	DR-8838-801A
	Type		DC	DC	DC
	Insulation class		E	E	E
	IP class		IP20	IP20	IP20
	Power input	W	52	52	52
	Power output (up/down)	W	40	40	25
	Capacitor	μF	/	/	/
	Speed (High/Middle/Low)	rpm	1300/1200/1100	1300/1200/1100	1300/1200/1100
Indoor fan	Brand		Haier	Haier	Haier
	Type		Cross	Cross	Cross
	Quantity		1	1	1
Indoor coil	a. Number of rows		2	2	2
	b. Tube pitch (a)×row pitch(b)	mm	26.6*1.35	26.6*1.35	26.6*1.35
	c. Fin spacing	mm	1.35	1.35	1.35
	d. Fin type (code)		Hydrophilic aluminum		
	e. Tube outside dia. and type	mm	Φ7 Inner groove tube		
	f. Coil length×height×width	mm	/	/	/
	g. Number of circuits		4	4	4

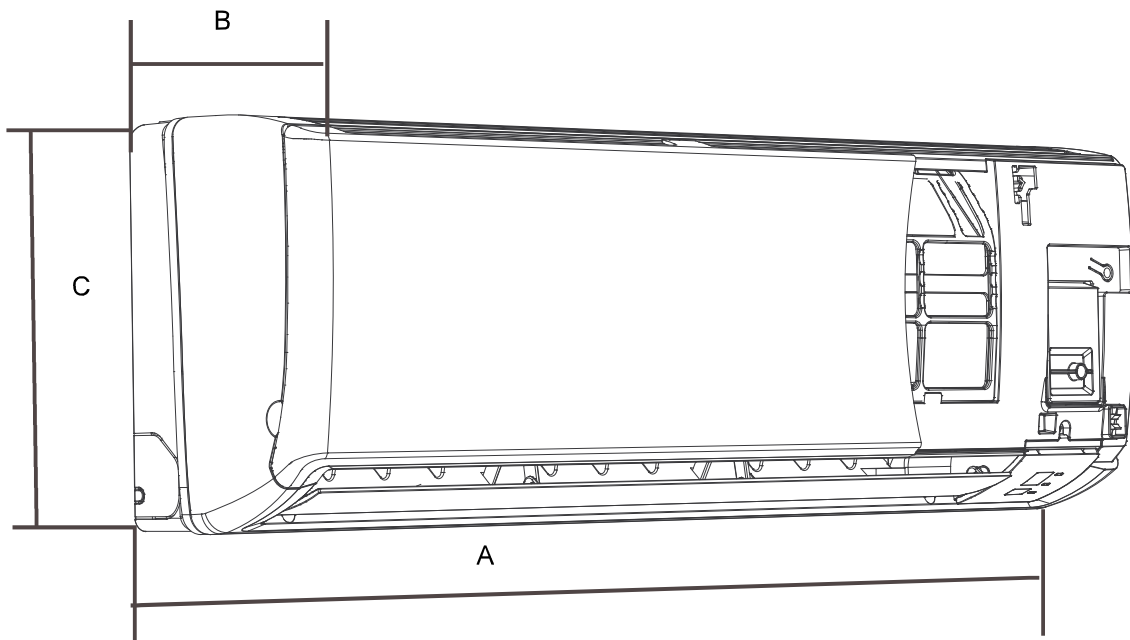
MODEL			CH43BV022- HYJ1H	CH43BV028- HYJ1H	CH43BV036- HYJ1H
Cabinet	Cabinet coating type		Plastic	Plastic	Plastic
	Cabinet salt spray test duration	Hour	/	/	/
	Control box IP class		IP20	IP20	IP20
Construction	Sheet metal thickness		/	/	/
	Drain pan material		PS	PS	PS
	Drain pan insulation		15	15	15
	Drain pump option		No	No	No
	Branch outlet option		No	No	No
Indoor wall	Material		Plastic	Plastic	Plastic
	Thickness	mm	/	/	/
	Double or single skin		Single	Single	Single
Air filter	Material		PP	PP	PP
	Mesh		100	100	100
	Pressure drop	Pa	5	5	5
Piping dimension	Liquid pipe	mm	6.35	6.35	6.35
	Gas pipe	mm	12.7	12.7	12.7
	Drain hose	mm	16.8	16.8	16.8
Fresh air dimension	mm	/	/	/	
Sound pressure level (H/M/L)	dB(A)	37/33/31	37/34/31	41/36/33	
Sound power level (H/M/L)	dB(A)	48/44/42	48/44/42	52/47/44	
Standard static pressure	Pa	0	0	0	
Indoor air flow	m ³ /h	600	600	600	
Dimension (W*H*D)	mm	938*187*265	938*187*265	938*187*265	
Packing (W*H*D)	mm	1016*304*360	1016*304*360	1016*304*360	
Net weight	kg	10.9	10.9	10.9	
Gross weight	kg	13.1	13.1	13.1	
Controller	Standard		YR-H71	YR-H71	YR-H71
Nominal condition: indoor temperature (cooling): 27DB (°C)/19WB (°C), indoor temperature (heating): 20DB (°C) Outdoor temperature (cooling): 35DB (°C)/24WB (°C), outdoor temperature (heating): 7DB (°C)/6WB (°C) The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level.					

MODEL			CH43BV045- HYJ1H	CH43BV056- HYJ1H	CH43BV071- HYJ1H
Power supply		Ph-V-Hz	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60
Cooling	Capacity	kBtu/h	15.4	19.1	24.2
	Capacity	kW	4.5	5.6	7.1
	Power input	W	71	94	94
	Current	A	0.31	0.41	0.41
Heating	Capacity	kBtu/h	17.1	21.5	27.3
	Capacity	kW	5	6.3	8
	Power input	W	71	94	94
	Current	A	0.31	0.41	0.41
	Heating capacity at low temp.	kW	4	5	6.3
Operating current		A	0.25	0.3	0.3
Power consumption		kW	0.05	0.07	0.07
Indoor motor	Brand		SHINANO	SHIBAURA	SHIBAURA
	Model		DR-8838-801A	SIC-310-40-1	SIC-310-40-1
	Type		DC	DC	DC
	Insulation class		E	E	E
	IP class		IP20	IP42	IP42
	Power input	W	52	53	53
	Power output (up/down)	W	40	40	40
	Capacitor	μF	/	/	/
	Speed (High/Middle/Low)	rpm	1300/1200/1100	1250/1200/1100	1250/1200/1100
Indoor fan	Brand		Haier	Haier	Haier
	Type		Cross	Cross	Cross
	Quantity		1	1	1
Indoor coil	a. Number of rows		2	2	2
	b. Tube pitch (a)×row pitch(b)	mm	26.6*1.35	26.6*1.36	26.6*1.36
	c. Fin spacing	mm	1.35	1.35	1.35
	d. Fin type (code)		Hydrophilic aluminum		
	e. Tube outside dia. and type	mm	Φ7 Inner groove tube		
	f. Coil length×height×width	mm	/	/	/
	g. Number of circuits		4	4	4

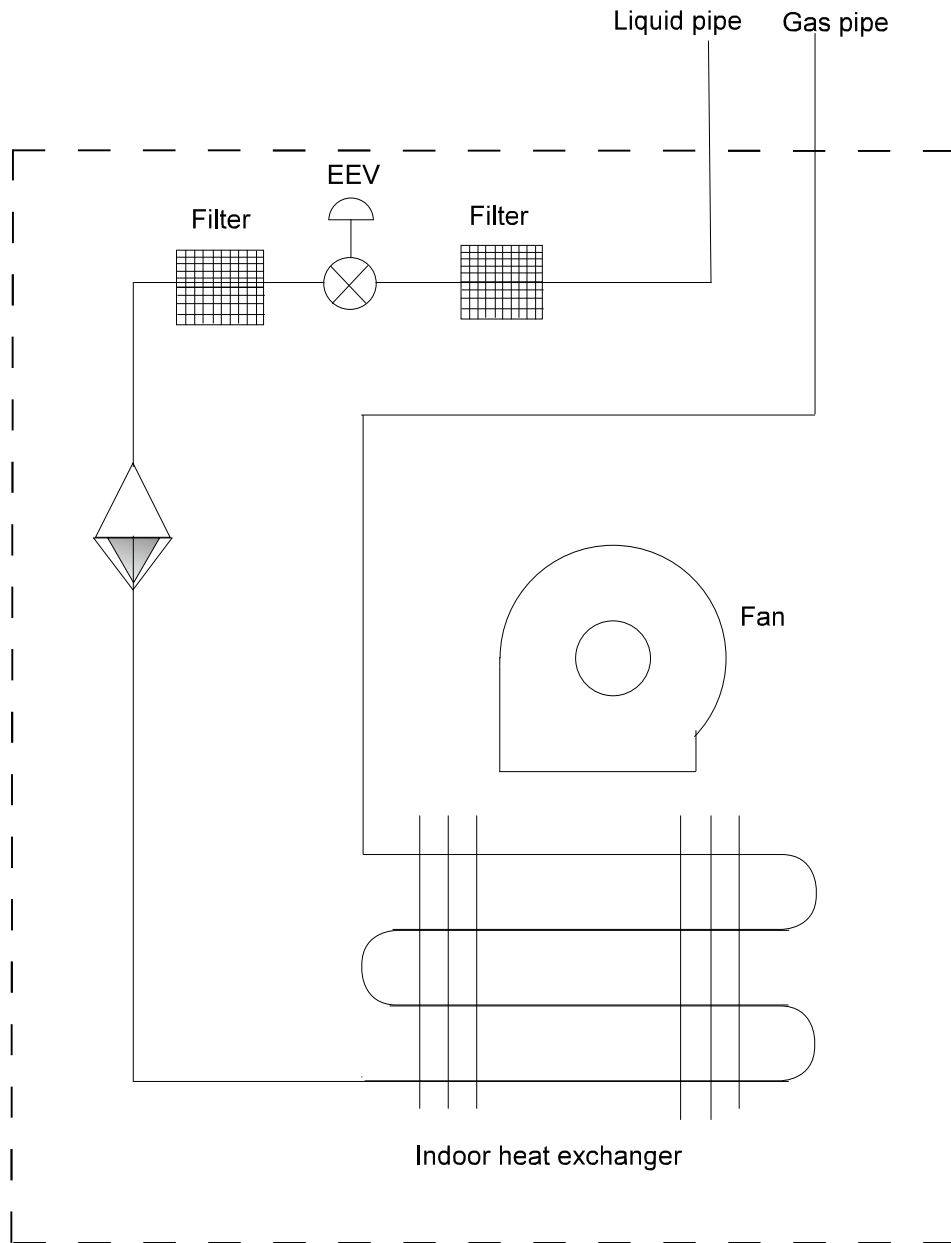
MODEL			CH43BV045- HYJ1H	CH43BV056- HYJ1H	CH43BV071- HYJ1H
Cabinet	Cabinet coating type		Plastic	Plastic	Plastic
	Cabinet salt spray test duration	Hour	/	/	/
	Control box IP class		IP20	IP20	IP20
Construction	Sheet metal thickness		/	/	/
	Drain pan material		PS	PS	PS
	Drain pan insulation		15	15	15
	Drain pump option		No	No	No
	Branch outlet option		No	No	No
Indoor wall	Material		Plastic	Plastic	Plastic
	Thickness	mm	/	/	/
	Double or single skin		Single	Single	Single
Air filter	Material		PP	PP	PP
	Mesh		100	100	100
	Pressure drop	Pa	5	5	5
Piping dimension	Liquid pipe	mm	6.35	9.52	9.52
	Gas pipe	mm	12.7	15.88	15.88
	Drain hose	mm	16.8	16.8	16.8
Fresh air dimension	mm	/	/	/	
Sound pressure level (H/M/L)	dB(A)	41/36/33	43/39/34	48/39/37	
Sound power level (H/M/L)	dB(A)	52/47/44	54/50/45	59/50/48	
Standard static pressure	Pa	0	0	0	
Indoor air flow	m ³ /h	600	800	800	
Dimension (W*H*D)	mm	938*187*265	1046*239*299	1046*239*299	
Packing (W*H*D)	mm	1016*304*360	1111*329*373	1111*329*373	
Net weight	kg	10.9	13	13	
Gross weight	kg	13.1	16.5	16.5	
Controller	Standard		YR-H71	YR-H71	YR-H71
Nominal condition: indoor temperature (cooling): 27DB (°C)/19WB (°C), indoor temperature (heating): 20DB (°C) Outdoor temperature (cooling): 35DB (°C)/24WB (°C), outdoor temperature (heating): 7DB (°C)/6WB (°C) The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level.					

10.3 Dimension

MODLE	A	B	C
CH43BV022~045-HYJ1H	938	187	265
CH43BV056/071-HYJ1H	1046	239	299

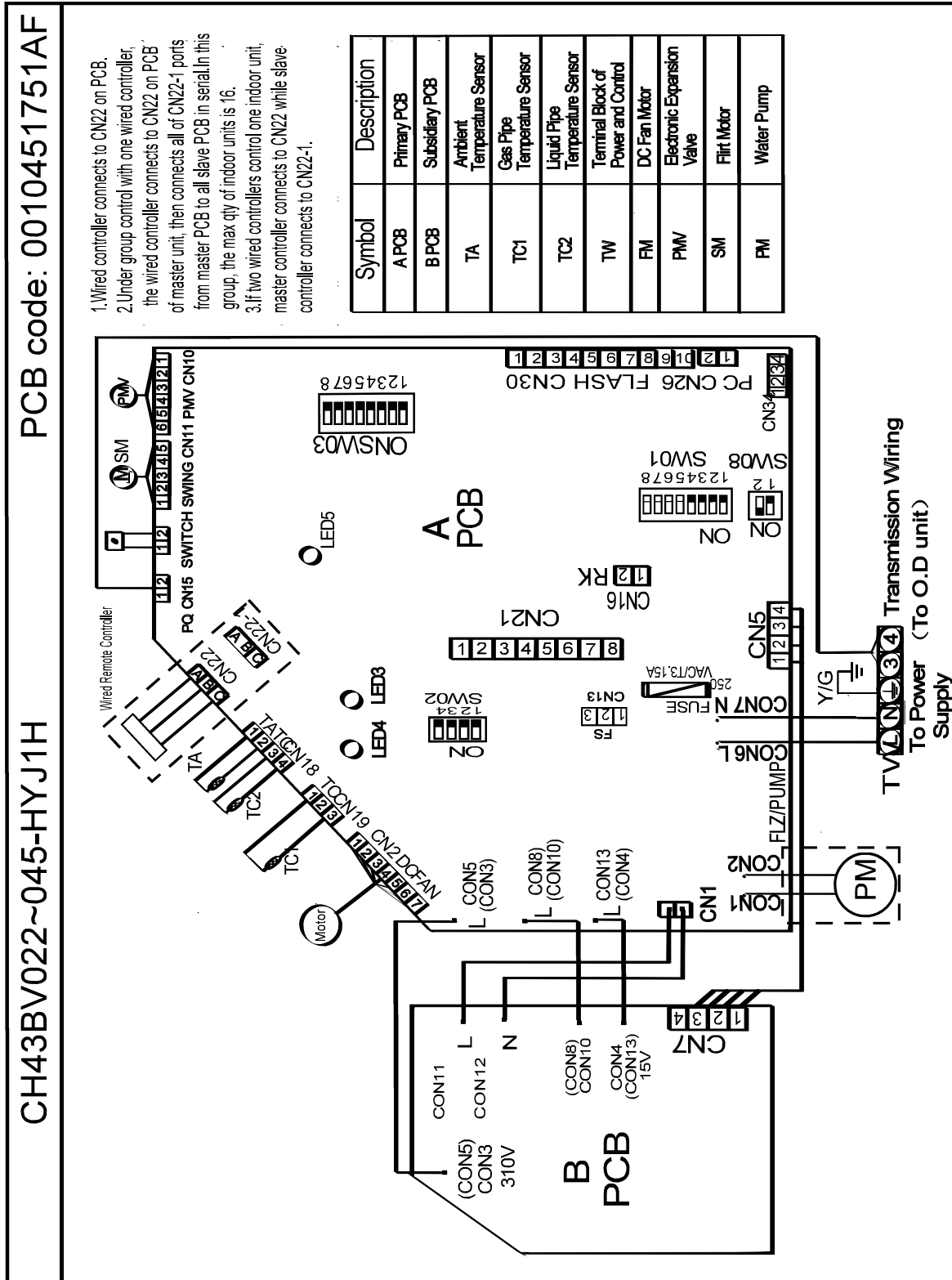


10.4 Piping diagram

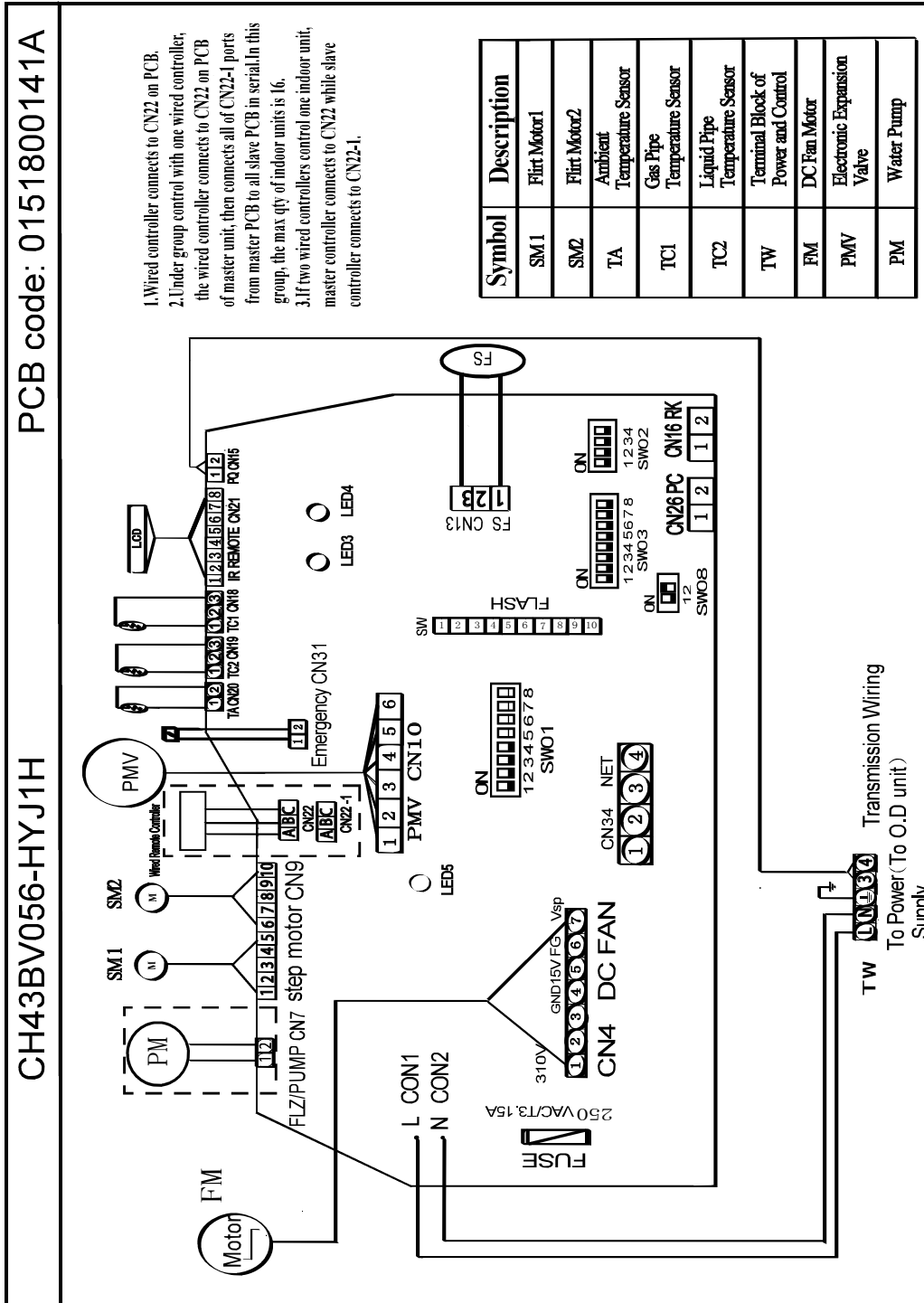


10.5 Wiring diagram

Wired controller is available



Wired controller is available



10.6 Electric characteristics

Units					Power supply	Indoor fan motor		Power input (W)	
Model	Phase	FQY	Voltage	Volt range	MCA	Output (W)	FLA	Cooling	Heating
CH43BV022-HYJ1H	1	50/60	220~230	198-242	0.35	40	0.165	71	71
CH43BV028-HYJ1H	1	50/60	220~230	198-242	0.35	40	0.165	71	71
CH43BV036-HYJ1H	1	50/60	220~230	198-242	0.35	40	0.165	71	71
CH43BV045-HYJ1H	1	50/60	220~230	198-242	0.35	40	0.165	71	71
CH43BV056-HYJ1H	1	50/60	220~230	198-242	0.47	40	0.2	94	94
CH43BV071-HYJ1H	1	50/60	220~230	198-242	0.47	40	0.2	94	94

Symbols:

MCA: Min. circuit amps (A)

MFA: Max. fuse amps of circuit breaker

W: Fan motor rated output (W)

FLA: Full load amps (A)

Notes:

1. *Voltage range*

The units are applicable for the electrical systems where voltage supplied to unit is in the range.

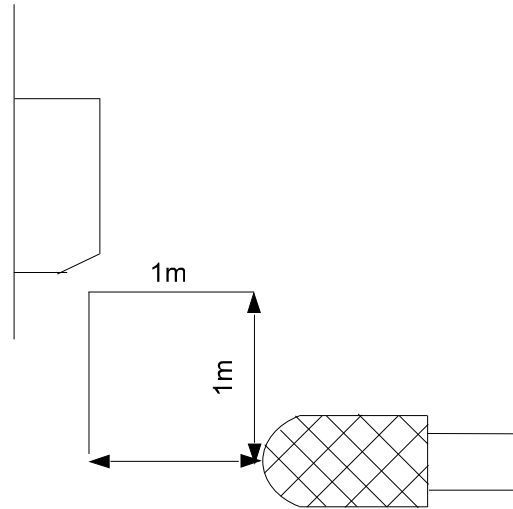
2. *Maximum allowable voltage unbalance between phases is 2%.*

3. $MCA=1.25*FLA$ $MFA \leq 4*FLA$

4. *Power supply uses the circuit breaker.*

10.7 Sound pressure level

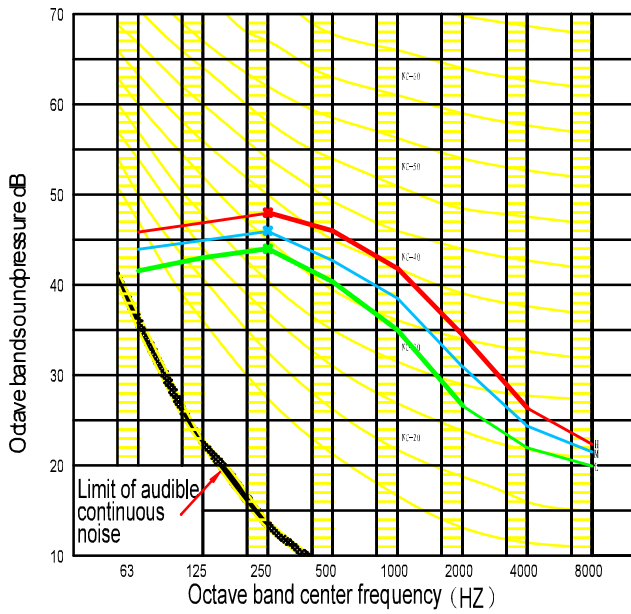
(1) Testing illustrate:



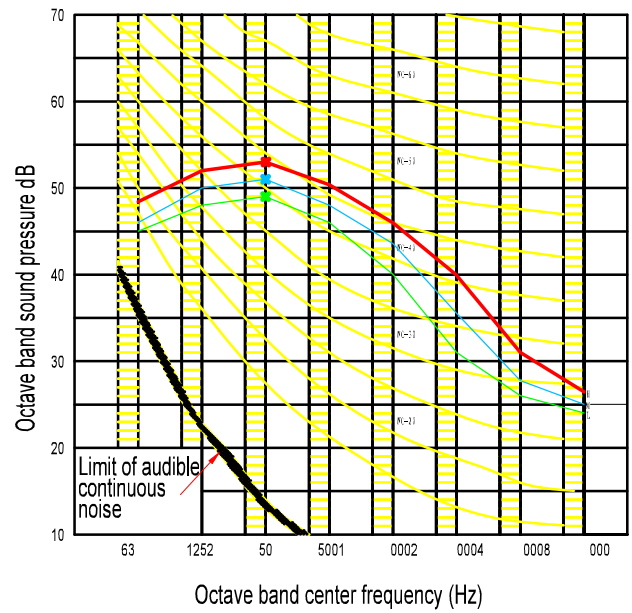
(2) Testing condition:

- a. Unit running in the nominal condition
- b. Test in the semi-anechoic chamber
- c. Noise level varies from the actual f

CH43BV022~045-HYJ1H



CH43BV056~071-HYJ1H



10.8 Installation

10.8.1 Installation Procedures

If you have any problem on product, contact the local Haier distribution center if you have any question or request.

Please use the standard tool according to the installation requirements.

The standard attached accessories of the units of this series refer to the packing; prepare other accessories according to the requirements of the local installation point of our company.

1. Choose the suitable installation location. Indoor units should be installed in places with the environment of even circulation of cool and warm blows. The following places should be avoided.

※Places with high salinity (beach), high sulfured gas (such as the thermal spring regions where copper tubes and soft soldering are easy to be eroded), much oil (including mechanical oil) and steam; places where organic substance solvent is frequently used; places where machines generate the high frequency electromagnetic wave (abnormal condition will appear in the control system); places where there is high humidity exists near the door or windows (dew is easily formed); and places where the special sprayer is frequently used.

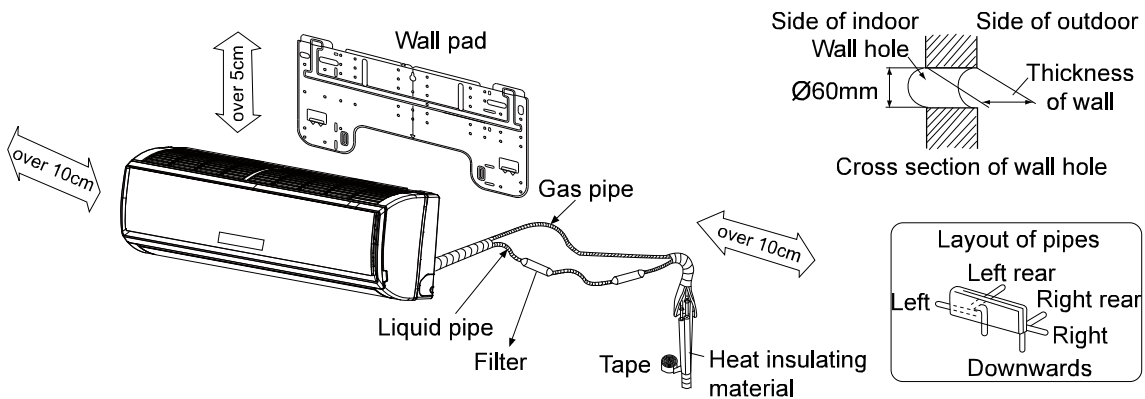
Indoor Units

- (1) The distance between wind outlet port and the ground should not be more than 2.7m. The distance to streets should not be less than 2.5m.
- (2) Select appropriate places for installation where the outlet air can be spread to places all over the house and arrange proper locations for connecting pipes and lines as well as the drainpipe to the outdoor.
- (3) Ceiling construction must be hard enough to hold the weight of the unit.
- (4) Make sure that the connecting pipe, drainpipe and connecting guide line can be put into walls to connect the outdoor units.
- (5) It is recommended to make the connecting pipe between the outdoor and indoor units and the drainpipe are as short as possible.
- (6) Please read the attached installation instruction of outdoor units for regulation of filling amount of refrigerant if necessary.
- (7) Select a place close to the supply socket of air conditioner and enough space should be kept near the machine.
- (8) Those electrical appliances such as television, instruments, devices, artwork, piano, wireless equipment and other valuables should not be placed under the indoor unit and over 1m away from the daylight lamp as to prevent condensate from dropping into them and causing damage.

2. The following steps can be taken after selecting the installation place:

Cut a hole on the wall and put the connecting pipe and connecting thread into the PVC, which is purchased at the local shop. With a slight downwards tilt towards the exterior, the gradient should be kept at least 1/100. Before cutting the hole, check if there are pipes or reinforcing steel bars at the rear of the hole. Making the hole in the place with wires or pipes should be avoided.

3. Installation Drawing of Indoor Units:



(1) Positioning Wall Pad & Locating Wall Holes

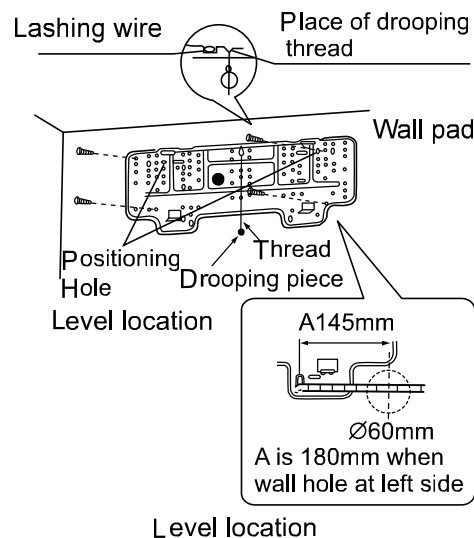
Fix the pad according to the installation location and the pipe layout of indoor unit (please refer to the installation drawing).

Installation should be done under the crossbeam or on the flat wall near the pillar. First fix the pad with a steel nail on the wall.

Drop a thread with a bolt through the pad center or use a level meter to find the level.

Then fix it with a concrete steel nail, (if it is fixed by the expansion bolts, drill holes on the wall according to the pad position with the electric drill).

(bore: 4.8mm, put the plastic sleeves into the holes, stick the panel onto the wall, and then position the pad with 4×25 bolts) and measure the position of the wall hole A.

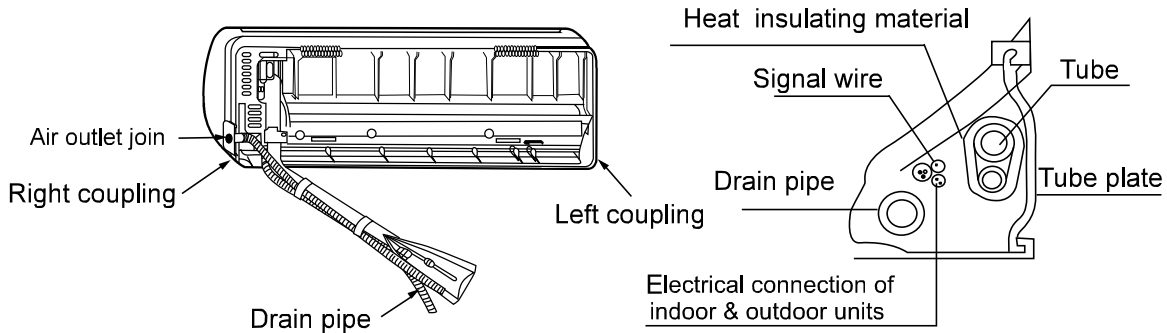


(2) Drilling Hole & Mounting Guard Ring

Drill a hole of 60mm bore with a slight tilt downwards to the outside, mount the guard ring, and seal it with gesso or putty after finishing the installation

(3) Arranging Wiring of Indoor Unit

Arrange the layout of connection pipe, drain pipe, connecting line, signal line and air refreshing pipe according to the locations of your indoor unit, outdoor unit and wall holes, with drainage hose lower, connecting line upper. Intercrossing winding is not allowed between the mains line and the connecting line, and the drain pipe (especially in the indoor unit and the inside of machine) should be wined with heat insulating materials for heat preservation.



(4) Lead the connection tubing (liquid pipe and gas pipe) through the hole into the wall, or connect piping and wiring of indoor unit (check the number of wiring terminals of indoor and outdoor units and connect terminals with the same number and color), and then put the connection tubing and the connecting line through from the inside wall for the connection with outdoor unit.

Tube Permissible Length & Height Difference

Please refer to the attached manual of outdoor units.

Tube Materials & Specification

Model		CH43BV022~045-HYJ1H	CH43BV056~071-HYJ1H
Tubing Size (mm)	Gas pipe	Φ12.7	Φ15.88
	Liquid pipe	Φ6.35	Φ9.52
Tubing Material		Phosphor deoxy bronze seamless pipe (TP2) f	

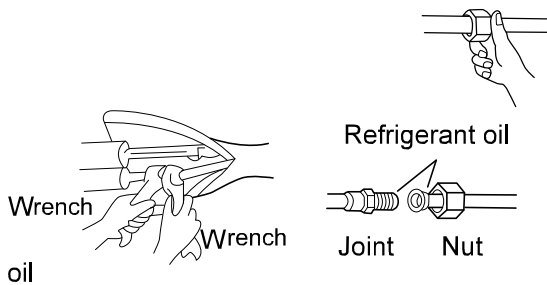
Refrigerant Filling Amount

Add the refrigerant according to the installation instruction of outdoor unit. The addition of R410A refrigerant must be performed with a measure gage to ensure the specified amount or compressor failure can be caused by filling too much or little refrigerant.

Connecting Procedures of Refrigerant Tubing

Proceed the flare tube connecting operation to connect all the refrigerant tubes.

- Dual wrenches must be used in the connection of indoor unit tubing.
- Mounting torque refers to the right table



Outer diameter of tubing (mm)	Mounting torque (N.m)	Increase mounting torque (N.m)
Φ6.35	11.8 (1.2kgf.m)	13.7 (1.4kgf.m)
Φ9.52	24.5 (2.5kgf.m)	29.4 (3.0kgf.m)
Φ12.70	49.0 (5.0kgf.m)	53.9 (5.5kgf.m)
Φ15.88	78.4 (8.0kgf.m)	98.0 (10.0kgf.m)
Φ19.05	98.0 (10.0kgf.m)	117.7 (12.0kgf.m)

Cutting and Enlarging

Cutting or enlarging pipes should be proceeded by installation personnel according to the operating criterion if the tube is too long or flare opening is broken.

Vacuumizing

Vacuumize from the stop valve of outdoor units with vacuum pump. Refrigerant sealed in indoor machine is not allowed to use for vacuumization.

Open All Valves

Open all the valves of outdoor units. [NB: oil balancing stop valve must be shut up completely when connected one master unit.]

Checkup for Air Leakage

Check if there is any leakage at the connecting part and bonnet with hydrophone or soapsuds.

Connecting



1. Connecting circular terminals:

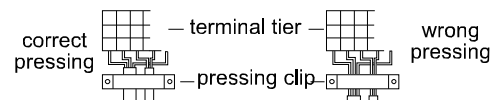
The connecting method of circular terminal is shown in the Fig. Take off the screw, connect it to the terminal tier after heading it through the ring at the end of the lead and then tighten it.

2. Connecting straight terminals:

The connection methods for the circular terminals are shown as follows: loosen the screw before putting the line terminal into the terminal tier, tighten the screw and confirm it has been clamped by pulling the line gently.

3. Pressing connecting line

After connecting line is completed, press the connecting line with clips which should press on the protective sleeve of the connecting line.



Installing and Dismantling Indoor Unit

1. Installation

During the installation of this series machines, fasten the wall pad on the wall first, hang the machine on the pothook, push it towards the wall pad until the sound of 'pa' 'pa' is heard. At this time, the agraffes of the indoor unit have hitched on the pad, as shown in the Fig.1 with dotted line.

2. Dismantling

During dismantling this series machines, push agraffes at the bottom of indoor unit upwards to release them, as shown in Fig.3, and pull up the bottom of indoor unit outwards gently and then raise the unit upwards in the bevel direction to release the pothook at the upper part of the wall pad, as shown in Fig.3.

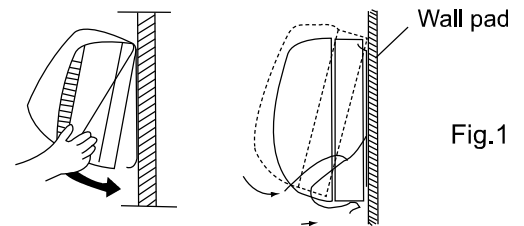


Fig.1

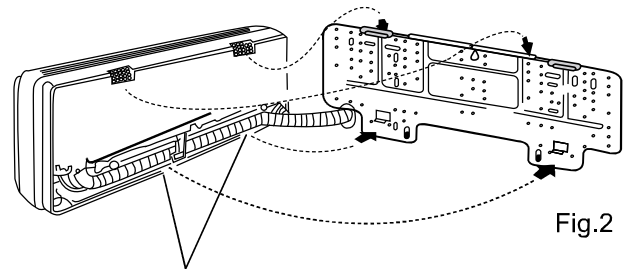


Fig.2

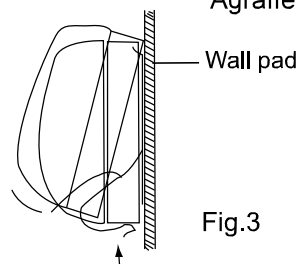


Fig.3

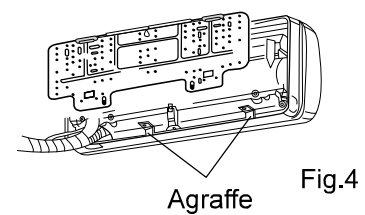


Fig.4

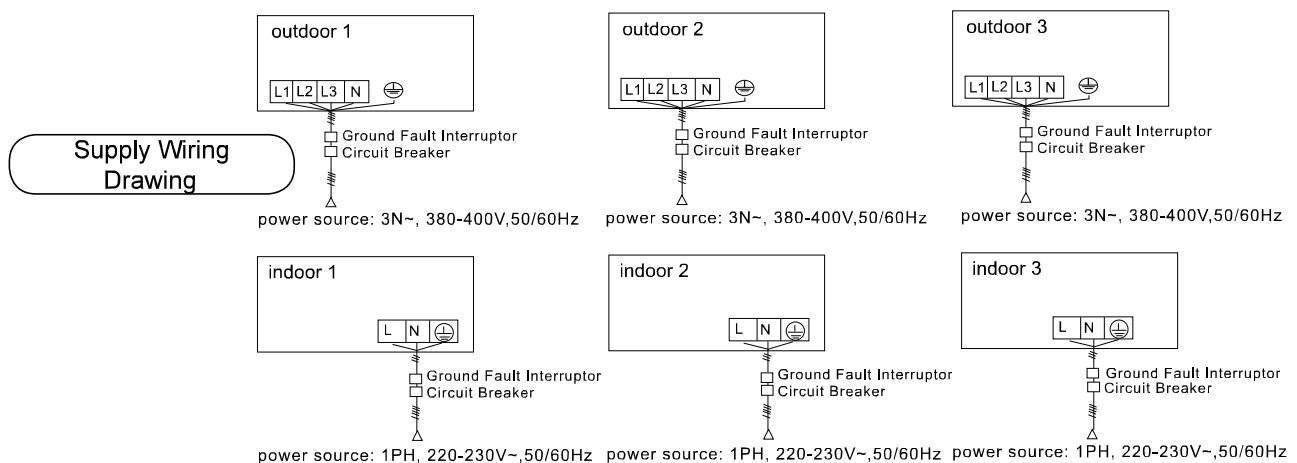
10.8.2 Electrical Wiring

⚠ WARNING

- Electrical construction should be made with specific mains circuit by the qualified personnel according to the installation instruction. Electric shock and fire may be caused if the capacity of power supply is not sufficient.
- During arranging the wiring layout, specified cables should be used as the mains line, which accords with the local regulations on wiring. Connecting and fastening should be performed reliably to avoid the external force of cables from transmitting to the terminals. Improper connection or fastness may lead to burning or fire accidents.
- There must be the ground connection according to the criterion. Unreliable grounding may cause electrical shocks. Do not connect the grounding line to the gas pipe, water pipe, lightning rod and telephone line.

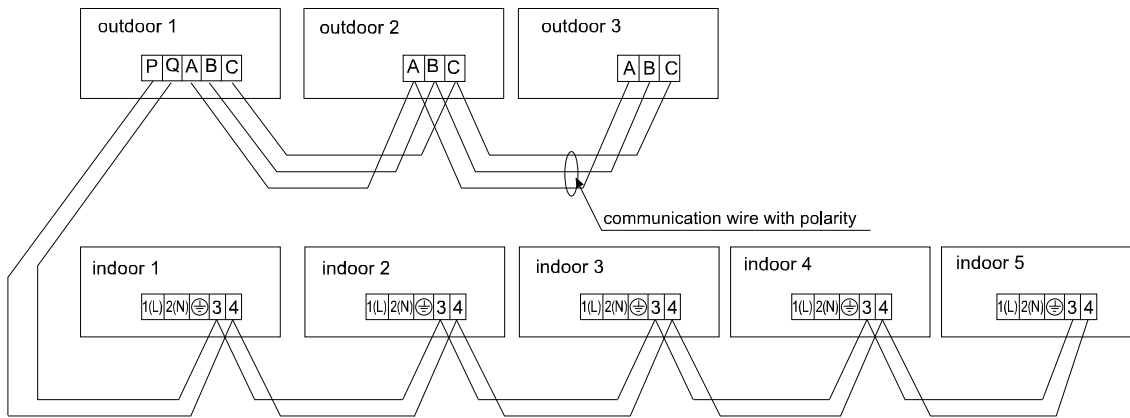
⚠ ATTENTION

- Only copper wire can be used. Breaker for electric leakage should be provided, or electric shock may occur.
- The wiring of the mains line is of Y type. The power plug L should be connected to the live wire and plug N connected to null wire while ⊕ should be connected to the ground wire. For the type with auxiliary electrically heating function, the live wire and the null wire should not be misconnected, or the surface of electrical heating body will be electrified. If the power line is damaged, replace it by the professional personnel of the manufacturer or service center.
- The power line of indoor units should be arranged according to the installation instruction of indoor units.
- The electrical wiring should be out of contact with the high-temperature sections of tubing as to avoid melting the insulating layer of cables, which may cause accidents.
- After connected to the terminal tier, the tubing should be curved into be a U-type elbow and fastened with the pressing clip.
- Controller wiring and refrigerant tubing can be arranged and fixed together.
- The machine can't be powered on before electrical operation. Maintenance should be done while the power is shut down.
- Seal the thread hole with heat insulating materials to avoid condensation.
- Signal line and power line are separately independent, which can't share one line. [Note: the power line and signal line are provided by users. Parameters for power lines are shown as below: $3 \times 1.0-1.5$ mm²; parameters for signal line: $2 \times 0.75-1.25$ mm² (shielded line)]
- 5 butt lines (1.5mm) are equipped in the machine before delivery, which are used in connection between the valve box and the electrical system of the machine. The detailed connection is displayed in the circuit diagram.



- Indoor units and outdoor units should be connected to the power source separately. Indoor units must share one single electrical source, but its capacity and specifications should be calculated. Indoor & outdoor units should be equipped with the power leakage breaker and the overflow breaker.

Signal Wiring Drawing



The combination of multiple indoor units can be controlled by remote controller.

Note:

The wiring for the power line of indoor unit, the wiring between indoor and outdoor units as well as the wiring between indoor units:

Items Total current of indoor units (A)	Cross section (mm ²)	Length (m)	Rated current of overflow breaker (A)	Rated current of residual circuit breaker (A) Ground fault interrupter (mA) Response time (S)	Cross sectional area of signal line	
					Outdoor -indoor (mm ²)	Indoor -indoor (mm ²)
<10	2	20	20	20 A, 30 mA, 0.1S or below	2 cores×0.75-2.0 mm ² shielded line	
≥10 and <15	3.5	25	30	30 A, 30 mA, 0.1S or below		
≥15 and <22	5.5	30	40	40 A, 30 mA, 0.1S or below		
≥22 and <27	10	40	50	50 A, 30 mA, 0.1S or below		

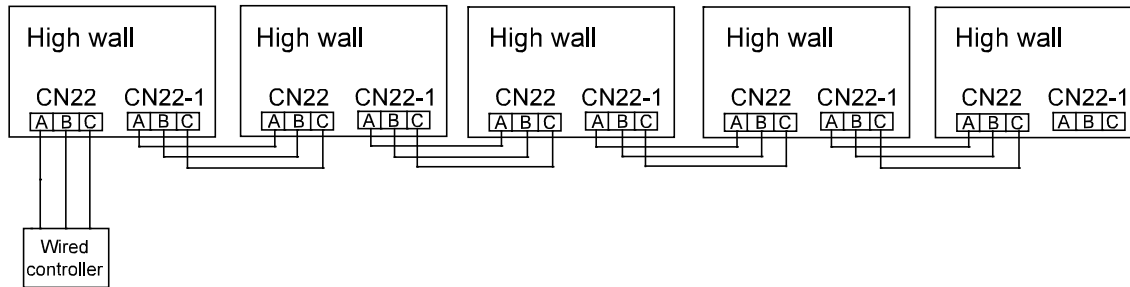
- ※ The electrical power line and signal lines must be fastened tightly.
- ※ Every indoor unit must have the ground connection.
- ※ The power line should be enlarged if it exceeds the permissible length.
- ※ Shielded lays of all the indoor and outdoor units should be connected together, with the shielded lay at the side of signal lines of outdoor units grounded at one point.
- ※ It is not permissible if the whole length of signal line exceeds 1000m.

High wall wired controller wiring and instruction

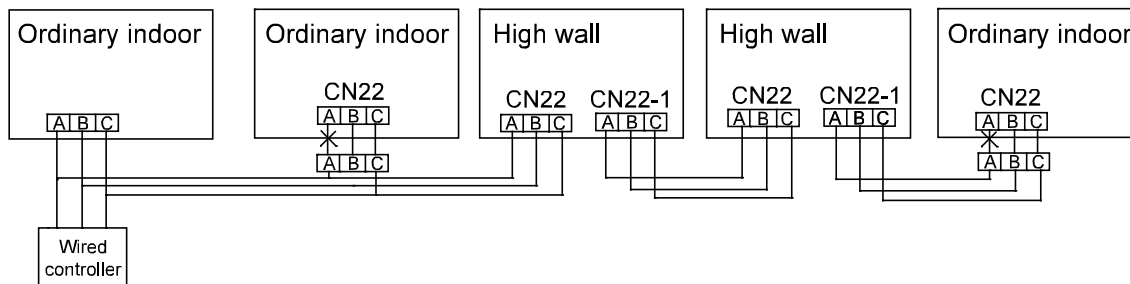
Two wired controllers control one high wall unit One wired controller controls one high wall unit



Recommended: One wired controller controls more than one indoor unit (limited in high walls)



Not recommended: One wired controller controls more than one indoor unit (ordinary indoors)



High wall wired controller wiring instruction:

1. One wired controller controls one high wall unit (one to one), connect the wires of wired controller to CN22 terminal on PCB directly.
2. Two wired controllers control one high wall unit (two to one), connect the wires of wired controller 1 and 2 respectively to CN22 and CN22-1 on PCB.
3. One wired controller controls more than one unit (one to more), limited in high wall units is recommended and mixed different type indoor units is not recommended. It's easy to do wrong wiring when there're many different type indoors.

If you choose one to more (mixed different type indoor units), please follow the principles below:

- a. The communication wires of wired controller inlet or outlet high wall units are 3 cores. It means to connect all the wires "ABC".
- b. When one wired controller connects to more indoors, all the wires between terminals are 3 cores. When other indoor units are slave ones of wired controller, please move off the "A" wire between indoor and PCB CN22 terminals. It means that when other indoors are slave ones of wired controller, no need to connect "A" wire.
- c. When the "A" wire is not connect to other ordinary indoors which are the slave ones of wired controller, please do some insulation on it and avoid touching other electric circuit.

Description for digital tube on remote receiver

- (1) Being electrified for the first time, digital tube displays "88", then turns OFF about 3 second
- (2) Unit stop state: nothing display and shows OFF.
- (3) Unit run state: Power on, the factory default setting is "Display setting temperature consistently"
 - a. Press display (light) button, after display environment temperature 5 seconds, it returns to setting temperature status.
 - b. Press display (light) button consecutively twice, if the interval of two press is less than 5 seconds, then perform the function of the LED display out, press the LED display for the third time, it returns to normal display; If the interval of two press is more than 5 seconds, then according to (1).
- (4) When indoor or outdoor failure occurs, the digital tube displays failure code: the format is "EXX", if failure code is more than 9, it will sliding display automatically.
 - If indoor is faulty, it displays indoor failure code.
 - If indoor is not faulty, it displays outdoor failure code. Outdoor failure code will be displayed E20 in sliding type generally.
- (5) Data query:
 - Entrance condition: set auto fan speed by remote controller, and press swing up/down for 8 times
 - Within 5 seconds, 2seconds later, the buzzer sounds 3 times, the digital tube will flash and display data
 - Display information:

Set temp. by remote control	Data query	Remarks
16	Indoor sensor Tai temperature	Display integer, if temp. less than-9 degree, sliding display.
17	Indoor sensor TC1 temperature	
18	Indoor sensor TC2 temperature	
19	Indoor PMV open angle	Display integer, if open angle more than 99pls, sliding display.
20	Indoor communication address	Display integer
21	Indoor central control address	Display integer
22~30	No definitio	--

Note:

In the course of data query:

Remote controller setting demand is null. (the set temperature shows the data to be checked)

Digital tube will flash to display data.

- *Quit condition: remote controller sets unit stop or no remote signal is received within 60 seconds.*

LED on remote receiver description

- (1) Being electrified for the first time, LED is ON, about 3 seconds lat , being OFF.
- (2) On unit stop, LED is OFF.
- (3) On unit running,
 - ON/OFF indicator: LED1: without fresh air setting, LED1 is red; with fresh air, LED1 is green.
 - Timer/sleep indicator: LED2: with timer or sleep function, LED2 is on, and yellow; or LED2 is off.
 - Compressor running indicator: LED3: indoor Thermostat On and compressor running, LED3 is on and green; or LED3 is off.

10.8.3 Test Run

Before Test Run

- Before switching it on, test the supply terminal tier (L, N terminals) and grounding points with 500V megaohm meter and check if the resistance is above 1MΩ. It can't be operated if it is below 1MΩ.
- Connect it to the power supply of outdoor units to energize the heating belt of the compressor. To protect the compressor at startup, power it on 12 hours prior to the operation.

Check if the arrangements of the drainpipe and connection line are correct.

The drainpipe shall be placed at the lower part while the connection line placed at the upper part. Heat preservation measures should be taken such as winding the drainpipe esp. in the indoor units with heating insulating materials. The drain pipe should be made a slope type to avoid protruding at the upper part and concaving at the lower part on the way.

Checkup of Installation

- Check if the mains voltage is matching
- Check if there is air leakage at the piping joints
- Check if the connections of mains power and indoor & outdoor units are correct
- Check if the serial numbers of terminals are matching
- Check if the installation place meets the requirement
- Check if there is too much noise
- Check if the connecting line is fastened
- Check if the connectors for tubing are heat insulated
- Check if the water is drained to the outside
- Check if the indoor units are positioned

Ways of Test Run

Do ask the installation personnel to make a test run. Take the testing procedures according to the manual and check if the temperature regulator works properly.

When the machine fails to start due to the room temperature, the following procedures can be taken to do the compulsive running. The function is not provided for the type with remote control

- Set the wired controller to cooling/heating mode, press 'ON/OFF' button for 5 seconds to enter into the compulsive cooling/heating mode. Repress 'ON/OFF' button to quit the compulsive running and stop the operation of the air conditioner.