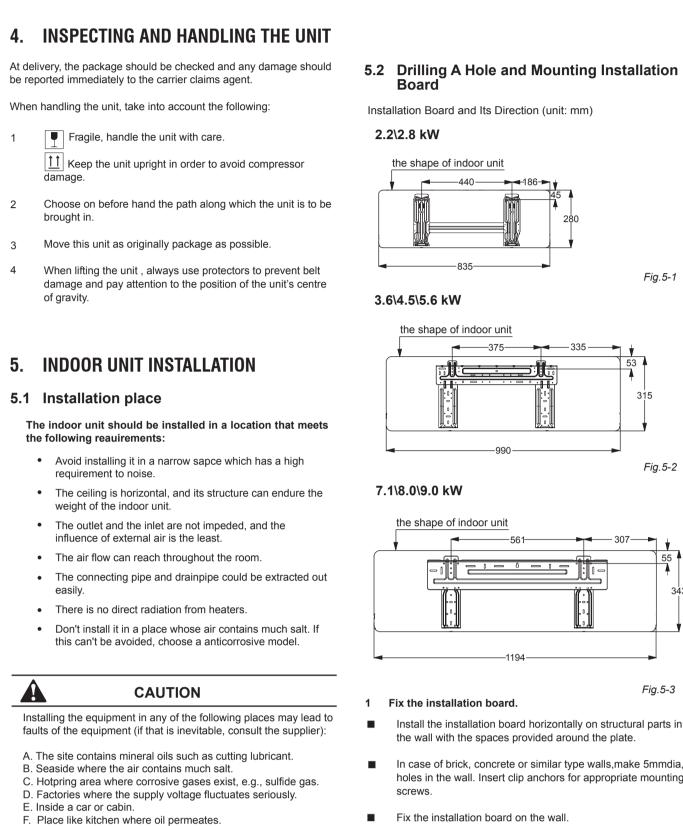
INSTALLATION MANUAL

Wall-mounted Type DC Fan Motor Wall-mounted Air Conditioner indoor unit

Original instructions The Digital Scroll and DC/AC Inverter share the same indoor units. Thank you very much for purchasing our air conditioner, please read this manual carefully and keep it for future reference.



G. Place where strong electromagnetic waves exist.

H. Place where flammable gases or materials exist.

I. Place where acid or alkali gases evaporate.

7.4 Main board Code designation

■ 1 means factory test mode

● 0 (Reserved)

00 (Reserved)

• 11 (Reserved)

fan will stop to prevent cold air

fan will stop to prevent cold air

fan will stop to prevent cold air

Without jumper "J1" for auto restart function

● With jumper "J1" for non-auto restart function

■□□□ 1 (Reserved)

sw1 0N 01 (Reserved)

SW2 Definition

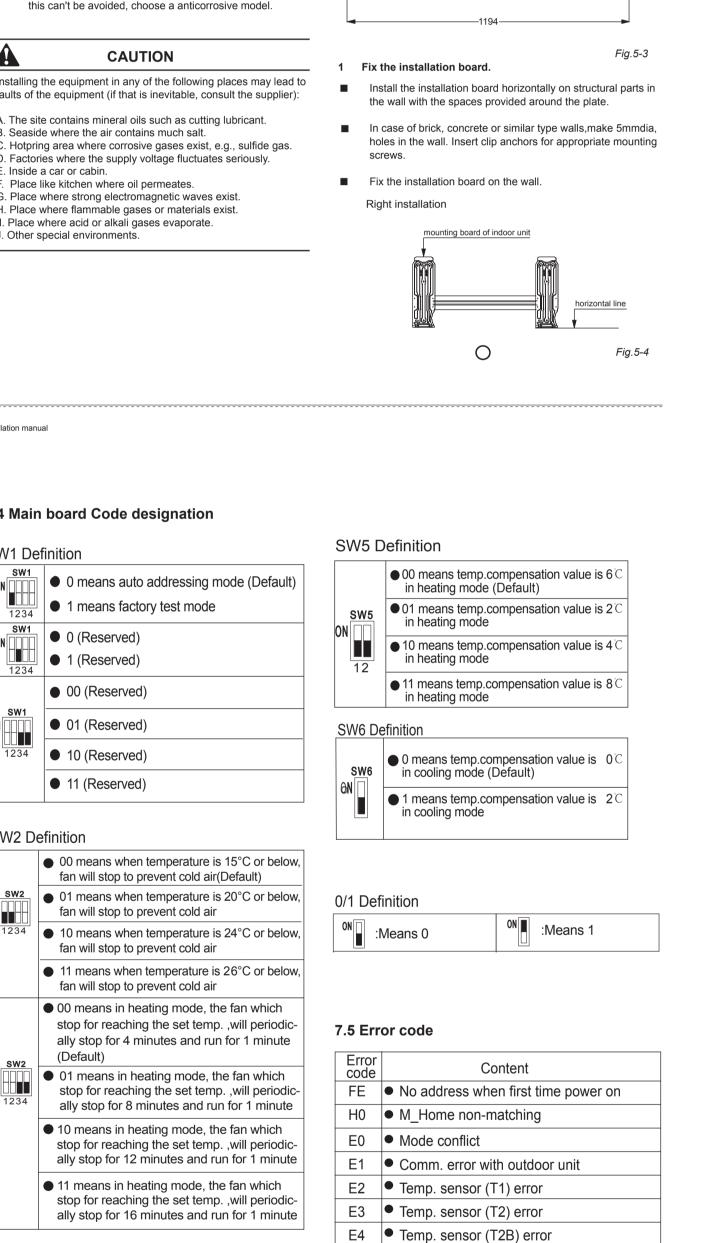
1234 ● 10 (Reserved)

(Default)

SW1 Definition

J. Other special environments.

Install the installation board horizontally on structural parts in ■ In case of brick, concrete or similar type walls,make 5mmdia, holes in the wall. Insert clip anchors for appropriate mounting Fix the installation board on the wall. mounting board of indoor unit



E6 ■ DC fan error

E7 EEPROM error Ed Outdoor unit error

EE Water level alarm

When connection extension drain hose,insulate the False installation connecting part of extension drain hose with a shield pipe Extension drainhose 2 Connection pipe nounting board of indoor unit Right back piping Right piping less from the wall. Indoor unit outline 2 Drilling a hole. ■ Determine the pipe hole position using the installation board, and drill the pipehole (N95mm) so it slants slightly Always use a wall hole conduit when piercing metal lath, Fix the end of the connective pipe. (Refer to Tightening 5.3 Connective Pipe and Drainage Installation Connection in REFRI-GERANT PIPING CONNECTION) 1 Drainage Run the drain hose sloping downward. Do not install the drain hose as illustrated below. CAUTION Connect the indoor unit first then the outdoor unit and bend and arrange the pipe carefully. Do not allow the piping to let out from the back of the indoor unit. Be careful not to let the drain hose slack. Do not put the hose Do not form a rise Insulate both of the auxiliary piping. end into water Fig.5-7 Banding the drain hose under the auxiliary pipe. Do not allow the piping to let out from the back of the indoor unit. According to the user's requirement, install the remote 8 TEST OPERATION controller frame where the remote controller's signal can reach the indoor unit smoothly. Set the air conditioner under the mode of "COOLING" with the CAUTION remote controller, and check the following points per the "Owner's Manual" If there is any malfunction, please resolve it through chapter "Troubles And Causes". Protection function will delay the startup of compressor for minutesincasetheunitisturnedonimmediatelyafterpoweronorrestarted after shutdown. Whether the switch on the remote controller works well. Whether the buttons on the remote controller works well. The test operation must be carried out after the entire installation has been completed. Whether the air flow louver moves normally. Please confirm the following points before the test operation: Whether the room temperature is adjusted well. The indoor unit and outdoor unit are installed properly. Whether the indicator lights normally. Piping and wiring are correctly completed. Whether the temporary buttons works well. The refrigerant pipe system is leakage-checked. Whether the drainage is normal. The drainage is unimpeded. Whether there is vibration or abnormal noise during opera- The heating insulation works well. Whether the air conditioner heats well in the case of the The ground wiring is connected correctly. HEATING/COOLING type. The length of the tubing and the added stow capacity of the The outdoor unit refrigerant have been recorded. Whether there is vibration or abnormal noise during opera-• The power voltage fits the rated voltage of the air conditioner. There is no obstacle at the outlet and inlet of the outdoor and Whether the generated wind, noise, or condensed water by the air conditioner have influenced your neighborhood. indoor and indoor units.

For the left-hand and rear-left-hand piping, install the piping as shown. Bend the conn-ective pipe to be laid at 43mm height or The gas-side and liquid-side stop values are both opened. Whether any of the refrigerant is leaked. The air conditioner is pre-heated by turning on the power.

1. PRECAUTIONS Be sure to be in conformity with the local, national and international laws and regulations. Read "PRECAUTIONS" carefully before installation. ■ The following precautions include important safty items. Observe them and never forget. Keep this manual with the owner's manual in a handy place for future reference. ■ Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only. The safty precautions listed here are divided into two categories. In either case, important safty information is listed which must be read carefully. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the owner's manual for future reference. 3 Piping and bandaging Because the condensed water from rear of the indoor unit is 5.4 Indoor Unit Installation Pass the piping through the hole in the wall. Put the claw at the back of the indoor unit on the hook of ■ Piping can easily be made by lifting the indoor unit with Push the lower part of the Indoor Unit up to the wall, Then installation manual

CONTENTS

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INSPECTING AND HANDLING THE UNIT.

REFRIGERANT PIPE INSTALLATION...

WARNING

WARNING

Wind the connective cable, drain hose and wiring with tape

Pond box

securely, evenly as shown below.

Indoor unit

Drain hose

side to see that it is securely hooked.

wall. Get it out after finish piping.

check if it is hooked securely.

the installation board, move the Indoor Unit from side to

a cushioning material between the indoor unit and the

move the Indoor Unit from side to side, up and down to

anything else in the box.

install, repair or service the equipment.

to the equipment.

the equipment.

shocks, fire.

Failure to observe a warning may result in death.

ATTACHED FITTINGS....

separation of at least 3mm in all poles should be connected in fixed wiring. Failure to observe a caution may result in injury or damage This appliance can be children aged from 8 yeas and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruct. The A-weighted sound pressure level is below 70dB. When carrying out piping connection, take care not to let air substances go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury. Do not modify the length of the power supply cord or use of extension cord, and do not share the single outlet with Be sure only trained and qualified service personnel to other electrical appliances. Otherwise, it will cause fire or electrical shock. Improper installation, repair, and maintenance may result in electric shocks, short-circuit, leaks, fire or other damage to Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Improper installation work may result in the equipment falling Install according to this installation instructions strictly. and causing accidents. If installation is defective, it will cause water leakage, electric 6. REFRIGERANT PIPE INSTALLATION CAUTION /entilate the air if there was any refrigerant leakage during gathered in Pond Box and is piped out of room. Do not put installation.Leaked refrigerant will generate poisonous gas if meeting fire. Make sure there is no refrigerant leakage after installation. Leaked refrigerant will generate poisonous gas if meeting fire. 6.1 Allowed Length and Drop of Piping Requirements are different when installing the Outdoor Unit, Please refer to Outdoor Unit Installation Manual for detailed information. 6.2 Material and Size of the Piping Ф12.7

installation manual

When installing the unit in a small room, take measures

Contact the place of purchase for more information.

otherwise, it will cause the set to fall, water leakage,

Install at a strong and firm location which is able to

The appliance must be installed 2.5m above floor.

The appliance shall not be installed in the laundry.

Before obtaining access to terminals, all supply circuits

The appliance must be positioned so that the plug is

or by symbols, with the direction of the fluid flow.

For electrical work, follow the local national wiring

independent circuit and single outlet must be used.

Use the specified cable and connect tightly and clamp

the cable so that no external force will be acted on the

If connection or fixing is not perfect, it will cause heat-up or

Wiring routing must be properly arranged so that control

If the supply cord is damaged, it must be replaced by the

manufacture or its sevice agent or similarly qualifued

An all-pole disconnection switch having a contact

If control board cover is not fixed perfectly, it will cause

heat-up at connection point of terminal, fire or electrical

If electrical circuit capacity is not enough or defect in

electrical work, it will cause electrical shock fire.

The enclosure of the appliance shall be marked by word,

standard, regulation and this installation instructions. An

If the strength is not enough or installation is not properly

for installation

electrical shock fire.

withstand the set's weight.

must be disconnected.

fire at the connection.

board cover is fixed properly.

person in order to avoid a hazard.

done, the set will drop to cause injury.

against to keep refrigerant concentration from exceeding

allowable safety limits in the event of refrigerant leakage.

Excessive refrigerant in a closed ambient can lead to oxygen

Use the attached accessories parts and specified parts

Copper Pipe for Air Conditioner ≤4.5 ≥5.6 Ф6.4 6.3 Refrigerant Volume to Be Added Refrigerant Volume to be added is calculated according to Outdoor Unit Installation Manual. Be save to add refrigerant measuring by a scale. CAUTION If refrigerant volume added is inadequate (too much or insufficient), the compressor malfunction will be caused. Be sure to calculate the refrigerant volume carefully. The service man should note down the piping length and refrigerant volume added on the nameplate, which is on the Electric Control Box Cover of outdoor unit for to diagnose the compressor when compressor malfunction occurs. 6.4 Connection of the Refrigerant Pipe Connection of the refrigerant pipe should be done by professionals. Double-span should be used when connecting pipesof Indoor Unit. CAUTION The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

14.2~17.2 Ф9.5 32.7~39.9 wiring cover plate Ф12.7 49.5~60.3 Ф15.9 61.8~75.4 Ф19.1 97.2~118.6 NOTE Please refer to installation instructions for the refrigerant line,adjust the dial switch.(see Fig.7-2~4) piping conection of the air conditioner that with throttle device inside. 2.2\2.8 kW the wire holder of power 7. WIRING CHART cord(four-position) The power supply specifications are as following, see table 7-1. If the capacity of wire is too small, it may result in overheating on the wire and cause the machine burned out. Table 7-1 2.2~9.0 the wire holder of communication line (two*three-position) 1-Phase 3.6\4.5\5.6 kW 220-240V~ 50/60Hz 15A Indoor unit power wire 3×2.5(mm²) RVVSP 2×0.5(mm²) RVVSP 2×0.5(mm²) the wire holder of power cord(three-position) the wire holder of communication line (five-position) Fuse on board 5(A) / 250(V) Power (220-240V~50/60Hz) 7.1\8.0\9.0 kW the wire holder of communication line (five-position) the wire holder of power cord(three-position) The communication line CAUTION CAUTION The reserved function is indicated in broken line table, users the fixed wiring according to the national rule. can select it when necessary.

1 Take out the faceplate, then dismantle the display cover Tightening Torque plate.(see Fig.7-1) Individual connect the power cord and communication Fig.7-4

Don't install the air conditioner in the following locations: There is petrolatum existing.

3. ATTACHED FITTINGS

Screw ST3.9x25 for installation bo

Plastic expanded tube

Wrapping tape

Orain pipe

Wall conduit cover

Alkaline dry batteries (AM4)

Never throw or beat the controller.

heating source, such as a stove.

Cautions on remote controller installation:

■ Before installation, operate the remote controller to determine its location in a

Keep the remote controller at least 1m apart from the nearest TV set or stereo

equipment. (it is necessary to prevent image disturbances or noise interferences.)

■ Do not install the remote controller in a place exposed to direct sunlight or close to a

Note that the positive and negative poles are right positions when loading batteries.

■ This manual is subject to changes due to technological improvement without further

Installation manual

Copper nut

reception range.

Please check whether the following fittings are of full scope. If there are some spare fittings , please restore them carefully.

QUANTITY

FUNCTION

Secure the installation board

Hold the remote controller

nsulation Holder for remote controller

This manual

The indoor unit which at the terminal of

mmunication system should connect

npedance between port P and port Q.

Connect piping

ENC1

CAUTION

system, the abnormal operation will occur.

1) Network address is set by communication of indoor and

outdoor unit; the address is the same as indoor address,

2) The central control of indoor units can be done on outdoor

unit, there is no need to control indoor unit separately, for

3) For previous control of indoor units, the network can be set by

address. The network can also be set by outer network

connecting (X,Y,E) terminals, there is no need to set network

unexpected error will occur.

7.3 Network address set

there is no need to set separately.

module and main board (CN12).

details please refer to outdoor unit manual.

The system together have 64units(0-63), everyone has only

system addresscode, If two addresses are the same in one

Please switch off the power before setting, otherwise the

has been set before

leaving the factory,

modify it except the

maintenance person.

anyone can' t

Toggle switch For set horsepowe

Capacity(Horsepowe

2200W(0.8HP)

2800W(1.0HP)

3600W(1.2HP)

4500W(1.5HP)

5600W(2.0HP)

7100W(2.5HP)

8000W(3.0HP)

9000W(3.2HP)

Remote controller

installation manual

SHAPE

ٽــــا

■ There is salty air surrounding (near the coast).

■ There is caustic gas (the sulfide, for example) existing in the air (near a hot spring). The Volt vibrates violently (in the factories).

In kitchen where it is full of oil gas. ■ There is strong electromagnetic wave existing. There are inflammable materials or gas.

In buses or cabinets.

There is acid or alkaline liquid evaporating. The appliance shall not be installed in the laundry. Avoid installing it in a narrow sapce which has a high requirement to noise. Other special conditions.

INSTALLATION INFORMATION

this manual as strictly as possible.

power only after a thorough check.

■ To install properly, please read this "installation manual" at ■ The air conditioner must be installed by qualified persons.

If the air conditioner is installed on a metal part of the building, it must be electrically insulated according to the relevant standards to electrical appliances. When all the installation work is finished, please turn on the

■ When installing the indoor unit or its tubing, please follow

Regret for no further announcement if there is any change of this manual caused by product improvement.

INSTALLATION ORDER

Install the connecting pipe

Connect the drain pipe;

Select the location; Install the indoor unit; Install the indoor and outdoor units, power supply wiring Install the outdoor unit;

Wiring;

and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise. Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.

The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they

If the refrigerant leaks during installation, ventilate the

Toxic gas may be produced if the refrigerant comes into the

After completing the installation work, check that the

Toxic gas may be produced if the refrigerant leaks into the

The appliance shall be installed in accordance with

room and comes into contact with a source of fire, such as a

The power cord type designation is H05RN-R/H07RN-F or

Check the power supply before installation. Ensure that

installation is prohibited before it is rectified. Otherwise,

Check the electric wire, water and gas pipeline layout

inside the wall, floor and ceiling before installation. Do

not implement drilling unless confirm safety with the

passing by at the drilling location, to prevent physical

injury or death caused by insulation broken cords.

CAUTION

Do not connect the ground wire to gas or water pipes,

lightning rod or a telephone ground wire. Incomplete

Failure to install an earth leakage breaker may result in

You are not allow to connect the air conditioner with the

While following the instructions in this installation

drainage and insulate piping in order to prevent

manual, install drain piping in order to ensure proper

Improper drain piping may result in water leakage and

Connect the outdoor unit wires, then connect the indoor

grounding may result in electric shocks.

Be sure to install an earth leakage breaker.

iring and piping the air conditioner is done.

Ground the air conditioner.

power source until w(including

electric shocks.

condensation.

installation manual

Table 6-2

property damage.

user, especially for the hidden power wire. An

electroprobe can be used to test whether a wire is

there is a risk of fire and electric shock, causing physical

the power supply must be reliably grounded following

local, state and National Electrical Codes. If not, for

example, if the ground wire is detected charged,

place contacting with fire.

refrigerant does not leak.

fan heater, stove or cooker.

national wiring regulations.

injury or death.

Test operation. do not play with the appliance.

An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual currentdevice (RCD) with the rating of above 10mA shall be incorporated in

installation manual

7.1 Terminal Board Diagram 7.2 Horsepower set Please refer to the indoor unit wiring diagram for the wiring.

The air-conditioners can connect with Central Control Monitor (CCM). Before operation, please wiring correctly and set system address and network address of indoor units. Single phase indoor unit

 ϕ ϕ

CN1

POWER IN

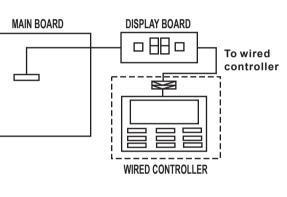
necessary.

installation manual

POWER IN INDOOR UNIT POWER INDOOR UNIT POWER

220-240V~50/60Hz 220-240V~50/60Hz (2.2/2.8kW) (3.6/4.5/5.6/7.1/8.0/9.0kW) P Q Y X To outdoor To CCM COMM. BUS To CCM To outdoor COMM. BUS (2.2/2.8kW) (3.6/4.5/5.6/7.1/8.0/9.0kW)

1. Please use copper core PVC insulated sheathed shielding twisted cord (RVVSP). 2. The shielding layer of communication wire at the same bus should be connected in series, then ground at outdoor unit side by single point grounding.



The reserved wired control function is indicated in broken line table, users can purchase the wired controller when

更改说明(此页不作菲林,供更改前后核对和检查)

A升级为B说明: 1、第7页表7-1 "All-pole disconnection device"由16A改为15A。 2、第8页7.3(2)中 "refer to V4+ outdoor unit manual",删除V4+。 3、第9页 0/1 Definition中的means改成Means 4. 第8页7.2中wire controller 更改为wired controller,线控器接线示意图中 WIRED CONTROLLER 和 To wired controller 位置对调。 5. 第8页7.2中: 通信接线说明的: and then ground at outdoor side

side by single point grounding. B升级为C 2017.2.22: 1) 封面右下角增加 Original instructions, 2) 封底图号升级,物料编码更新

C升级为D 2018.6.27:) 第2页WARNING部分增加最后两点说明, 2) 封底图号升级,物料编码更新

MD15I-005DW

16100101000757

by single point grounding, 更改为then ground at outdoor unit