

**Required tools for Installation Works**

- |  |                     |                    |                    |
|--|---------------------|--------------------|--------------------|
| 1 Phillips screw driver                    | 6 Pipe cutter       | 11 Thermometer     | 42 N•m (4.2 kgf.m) |
| 2 Level gauge                              | 7 Reamer            | 12 Megameter       | 55 N•m (5.5 kgf.m) |
| 3 Electric drill, hole core drill (ø70 mm) | 8 Knife             | 13 Multimeter      | 15 Vacuum pump     |
| 4 Hexagonal wrench (4 mm)                  | 9 Gas leak detector | 14 Torque wrench   | 16 Gauge manifold  |
| 5 Spanner                                  | 10 Measuring tape   | 18 N•m (1.8 kgf.m) |                    |

**SAFETY PRECAUTIONS**

- Read the following "SAFETY PRECAUTIONS" carefully before installation.
- Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the power plug and main circuit for the model to be installed.
- The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indicators.

<b>WARNING</b>	This indication shows the possibility of causing death or serious injury.
<b>CAUTION</b>	This indication shows the possibility of causing injury or damage to properties only.

The items to be followed are classified by the symbols:

	Symbol with white background denotes item that is PROHIBITED.
	Symbol with dark background denotes item that must be carried out.

**INDOOR UNIT**

- Do not install outdoor unit near handrail of veranda. When installing air-conditioner unit on veranda of a high rise building, child may climb up to outdoor unit and cross over the handrail causing an accident.
- Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord. Do not share the single outlet with other electrical appliances. Poor contact, poor insulation or over current will cause electrical shock or fire.
- Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen.
- Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury.
- Do not sit or step on the unit, you may fall down accidentally.
- Keep plastic bag (packaging material) away from small children, it may sting to nose and mouth and prevent breathing.
- Do not use high pressure in refrigeration cycle and result in explosion, injury etc.
- Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.
- For R410A model, use piping, flare nut and tools which is specified for R410A refrigerant. Using of existing (R22) piping, flare nut and tools may cause abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury.
- Thickness of copper pipes used with R410A must be more than 0.8 mm. Never use copper pipes thinner than 0.8 mm.
- It is desirable that the amount of residual oil less than 40 mg/10 m.
- Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire.
- Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.
- Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.
- Install at a strong and firm location which is able to withstand weight of the set. If the strength is not enough or installation is not properly done, the set will drop and cause injury.
- For electrical work, follow the local national wiring standard, regulation and this installation instruction. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire.
- Do not use joint cable for indoor/outdoor connection cable. Use the specified indoor/outdoor connection cable, refer to instruction ③. **CONNECT THE CABLE TO THE INDOOR UNIT** and connect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection or fixing is not perfect, it will cause heat up or fire at the connection.
- Wire routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause fire or electrical shock.
- This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.
- During installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping and valves at opened position will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
- During pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration piping while compressor is operating and valves are opened will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
- Tighten the flare nut with torque wrench according to specified method. If the flare nut is over-tightened, after a long period, the flare may break and cause refrigerant gas leakage.
- After completion of installation, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant contacts with fire.
- Ventilate if there is refrigerant gas leakage during operation. It may cause toxic gas when the refrigerant contacts with fire.
- This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone. Otherwise, it may cause electrical shock in case of equipment breakdown or insulation breakdown.

**CAUTION**

- Do not install the unit in a place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause fire.
- Do not release refrigerant during piping work for installation, re-installation and during repairing refrigeration parts. Take care of the liquid refrigerant, it may cause frostbite.
- Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc.
- Do not touch the sharp aluminum fin, sharp parts may cause injury.
- Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.
- Select an installation location which is easy for maintenance.
- Power supply connection to the room air conditioner.  
Use power supply cord 3 x 1.5 mm<sup>2</sup> (1.0-1.5HP), 3 x 2.5 mm<sup>2</sup> (2.0HP) type designation 60245 IEC 57 or heavier cord.  
Connect the power supply cord of the air conditioner to the mains using one of the following methods.  
Power supply point should be in easily accessible place for power disconnection in case of emergency.  
In some countries, permanent connection of this air conditioner to the power supply is prohibited.
- 1) Power supply connection to the receptacle using power plug.  
Use an approved 15/16A (1.0-1.5HP), 16A (2.0HP), power plug with earth pin for the connection to the socket.
- 2) Power supply connection to a circuit breaker for the permanent connection.  
Use an approved 16A (1.0-2.0HP) circuit breaker for the permanent connection. It must be a double pole switch with a minimum 3.0 mm contact gap.
- Installation work.  
It may need two people to carry out the installation work.

**Accessory parts**

No.	Accessories part	Qty.	No.	Accessories part	Qty.
1	Mounting plate	1	6	Battery	2
2	Screw (for indoor unit/mounting plate)	9	7	Remote control holder	1
3	Drain hose	1	8	Remote control holder fixing screw	2
4	Insulation sheet	2	9	Drain elbow	1
5	Remote Control	1			

**Auto switch operation**

- The following operations can be performed by pressing the "AUTO" switch.
- AUTO OPERATION MODE**  
The Auto operation will be activated immediately once the Auto Switch is pressed.
  - TEST RUN OPERATION (FOR PUMP DOWN/SERVICING PURPOSE)**  
The Test Run operation will be activated if the Auto Switch is pressed continuously for more than 5 sec. to below 8 sec. A "pop" sound will occur at the fifth sec., in order to identify the starting of Test Run operation.

**Changing the remote control transmission code**

- Press AUTO switch on indoor unit continuously for 11 seconds (Buzzer sound = pep pep pep).
- After 11 seconds, release AUTO switch, then press remote control TIMER "M" button continuously for 5 seconds. Reset code will be transmitted. After transmitted reset code, release TIMER "M" button.
- Press remote control "OFF/ON" button. The new remote control number will be accepted and memorized, after which the new remote control number can be used.

**Remote control number change in Remote Controller**

- Remove battery from the battery compartment in the Remote Controller.
- At left side of battery compartment, there is a small opening at the centre in which a Jumper (J.A) can be seen. Also in remote control PCB shown below, Jumper (J.B) can be seen.

Product name	Remarks
Rigid PVC pipe	VP20 (outer diameter ø26 mm) VP30 (outer diameter ø38 mm) Reducer (VP30-VP20) also socket, elbow and other parts as necessary.
Adhesive	PVC adhesive
Insulation	For drain piping insulation (formal polyethylene with a thickness of 10 mm or more)
Power supply cable	Approved type polychloroprene sheathed power supply cord 3 x 1.5 mm <sup>2</sup> type designation 60245 IEC 57 or heavier cord
Indoor/outdoor connection cable	Approved type polychloroprene sheathed 4 x 1.5 mm <sup>2</sup> flexible cord type designation 60245 IEC 57 or heavier cord

J_A	J_B	Remote control number
Short	Open	A(Default)
Open	Open	B
Short	Short	C
Open	Short	D

**1. SELECTING THE INSTALLATION LOCATION**

- Indoor unit**  
Before choosing the installation site, obtain user approval.  
Do not install the unit in excessive oil fume area such as kitchen, workshop and etc.  
There should not be any heat source or steam near the unit.  
There should not be any obstacles blocking the air circulation.  
A place where air circulation in the room is good.  
A place where drainage can be easily done.  
A place where noise prevention is taken into consideration.  
Do not install the unit near the door way.  
Locate the indoor unit at least 1 m or more from TV, radio, wireless equipment, antenna cables and fluorescent light, and 2 m or more away from a telephone.  
Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.

**Installation diagram**

- The indoor unit may be mounted in any of three styles shown here.

**3. INSTALLING THE INDOOR UNIT**

**Exposed installation**

**Refrigerant piping**

- Drill a hole (70 mm in diameter) in the spot indicated by the symbol in the illustration as below.
- The location of the hole is different depending on which side of the pipe is taken out.
- For piping, see 5. Connecting the refrigerant piping.
- Allow space around the pipe for indoor unit pipe connection.

**CAUTION**

**Min. allowable length**

- The suggested shortest pipe length is 2.5 m. In order to avoid noise from the outdoor unit and vibration. (Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)
- See the installation manual for the outdoor unit for the maximum pipe length.
- For multi-connections, see the installation manual for the multi-outdoor unit.

**To drill a hole in the wall and install a sleeve of piping**

- Insert the piping sleeve to the hole.
- Fix the bushing to the sleeve.
- Cut the sleeve until it extrudes about 15 mm from the wall.

**CAUTION**

- When the wall is hollow, please be sure to use the sleeve for tube assembly to prevent dangers caused by mite biting the connection cable.

**Drain piping**

- Use commercial rigid polyvinyl chloride pipe (general VP-20 pipe, outer diameter 26 mm, inner diameter 20 mm) for the drain pipe.
- The drain hose (outer diameter 18 mm at connecting end, 220 mm long) is supplied with the indoor unit. Prepare the drain pipe picture below position.
- The drain pipe should be inclined downward so that water will flow smoothly without any accumulation. (Should not be trap.)
- Insert the drain hose to this depth so it won't be pulled out of the drain pipe.
- Insulate the indoor drain pipe with 10 mm or more of insulation material to prevent condensation.
- Remove the air filters and pour some water into the drain pan to check the water flows smoothly.

**CAUTION**

- Use polyvinyl chloride adhesive agent for gluing. Failure to do so may cause water leakage.

**4. CONNECTING THE DRAIN HOSE**

- Insert the supplied drain hose into the socket of the drain pan.
- Fully insert the drain hose until it adheres to a seal of the socket.

**Check the drainage**

- Pour a glass of water into the drain pan.
- Ensure that water flows out from drain pipe.

**Insulating the refrigerant piping**

- Attach the pipe after checking for gas leakage, described above.
- Cut the insulated portion of the on-site piping, matching it up with the connecting portion.
- Secure the slit on the auxiliary pipe side with the built joint on the connection pipe with the tape, making sure there are no gaps.
- Wrap the slit and the built joint with the included insulation sheet (1), making sure there are no gaps.

**CAUTION**

- Insulate the joint of the pipes securely. Incomplete insulation may lead to water leakage.
- Push the pipe inside so it does not place undue force on the front grille.

**1. SELECTING THE INSTALLATION LOCATION**

Before choosing the installation site, obtain user approval.

- If an awning is built over the unit to prevent direct sunlight or rain, be careful that heat radiation from the condenser is not obstructed.
- There should not be any animal or plant which could be affected by hot air discharged.
- Keep the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.
- Do not place any obstacles which may cause a short circuit of the discharged air.
- If piping length is over the (piping length for additional gas), additional refrigerant should be added as shown in the table.

Model	Home Power (HP)	Piping size	Std. Length (m)	Max. Elevation (m)	Max. Piping Length (m)	Max. Piping Length (m)	Additional Refrigerant (g)	Piping Length for add. gas (m)
EP***	1.0HP	9.52mm (3/8")	6.35mm	5	5	3	15	20
E12***	1.5HP	12.7mm (1/2")	11.4"	5	5	3	15	20
E18***	2.0HP	12.7mm (1/2")	11.4"	5	5	3	15	20

Example: For EP\*\*\*  
If the unit is installed at 10 m distance, the quantity of additional refrigerant should be 50 g... (10-7.5) m x 20 g = 50 g.

**2. INSTALLING THE OUTDOOR UNIT**

After selecting the best location, start installation to Indoor/Outdoor Unit Installation Diagram.

- Fix the unit on concrete or rigid frame firmly and horizontally by bolt nut (ø10 mm).
- When installing at roof, please consider strong wind and earthquake. Please fasten the installation stand firmly with bolt or nails.

**Flaring the pipe end**

- Please cut using pipe cutter and then remove the burrs.
- Remove the burrs by using reamer. If burrs is not removed, gas leakage may be caused. Turn the piping end down to avoid the metal powder entering the pipe.
- Please make flare after inserting the flare nut onto the copper pipes.

**Improper flaring**

**3. CONNECTING THE REFRIGERANT PIPING**

- Decide piping length and then cut by using pipe cutter. Remove burrs from cut end.
- Make flare after inserting the flare nut (locate at valve) onto the copper pipe.
- Align center of pipe to valve and then tighten with torque wrench to the specified torque as stated in the table.

Piping size	Torque
6.35 mm (1/4")	18 N•m (1.8 kgf.m)
9.52 mm (3/8")	42 N•m (4.3 kgf.m)
12.7 mm (1/2")	55 N•m (5.6 kgf.m)
15.88 mm (5/8")	65 N•m (6.6 kgf.m)
19.05 mm (3/4")	100 N•m (10.2 kgf.m)

**Do not over-tighten, over tightening cause gas leakage.**

**2. SELECTION OF PIPE AND HEAT INSULATION MATERIALS**

- When using commercial copper pipes and fittings, observe the following:
  - Insulation material: Polyethylene foam  
Heat transfer rate: 0.041 to 0.052 W/mK (0.035 to 0.045 kcal/mh°C)  
Refrigerant gas pipe's surface temperature reaches 110°C max.  
Choose heat insulation materials that will withstand this temperature.
  - Be sure to insulate both the gas and liquid piping and to provide insulation dimension as below.

Model	Pipe Dimension	Thermal Insulation Dimension
EP***	Gas side 3/8" (Outer diameter 9.5 mm 10.8 mm) Liquid side 1/4" (Outer diameter 6.4 mm 10.8 mm)	Inner diameter 12 - 15 mm 110 mm Min Inner diameter 8 - 10 mm 110 mm Min
E12***	Gas side 1/2" (Outer diameter 12.7 mm 10.8 mm) Liquid side 1/4" (Outer diameter 6.4 mm 10.8 mm)	Inner diameter 14 - 16 mm 110 mm Min Inner diameter 8 - 10 mm 110 mm Min

**3. CONNECTING THE CABLE TO OUTDOOR UNIT**

- Remove the control board cover from the unit by loosening the screw.
- Connect the power supply from the unit by loosening the screw.
- Connect approved type polychloroprene sheathed power supply cord 3 x 1.5 mm<sup>2</sup> type designation 60245 IEC 57 or heavier cord to the terminal board, and connect the other end of the cord to Isolating Devices (Disconnecting means).
- Connection cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 4 x 1.5 mm<sup>2</sup> flexible cord, type designation 60245 IEC 57 or heavier cord.
- Connect the power supply cord and connection cable between indoor unit and outdoor unit according to the diagram below.

**WARNING**

- Note: Isolating Devices (Disconnecting means) should have minimum 3.0 mm contact gap.
- Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires for safety reason.

**5. CONNECTING THE CABLE TO OUTDOOR UNIT**

- Remove the control board cover from the unit by loosening the screw.
- Connect the power supply from the unit by loosening the screw.
- Connect approved type polychloroprene sheathed power supply cord 3 x 1.5 mm<sup>2</sup> type designation 60245 IEC 57 or heavier cord to the terminal board, and connect the other end of the cord to Isolating Devices (Disconnecting means).
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**WARNING**

- Note: Isolating Devices (Disconnecting means) should have minimum 3.0 mm contact gap.
- Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires for safety reason.

**6. CONNECTING THE INDOOR/OUTDOOR CONNECTION CABLE**

- Leave the sensor securing plate, remove the front metal plate cover.
- Connecting the cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 4 x 1.5 mm<sup>2</sup> flexible cord, type designation 60245 IEC 57 or heavier cord.
  - Ensure the colour of wires of indoor unit and the terminal Nos. are the same to the outdoor's respectively.
  - Earth lead wire shall be longer than the other lead wires as shown in the figure for the electrical safety in case of the slipping.
  - Secure the cable onto the control board with the holder (clammer).

**WARNING**

- Secure the connection cable onto the control board with the holder.
- Ensure the colour of wires of outdoor unit and the terminal Nos. are the same to the indoor's respectively.
- Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires for safety reason.

**5. EVACUATION OF THE EQUIPMENT**

WHEN INSTALLING AN AIR CONDITIONER, BE SURE TO EVACUATE THE AIR INSIDE THE INDOOR UNIT AND PIPES IN THE FOLLOWING PROCEDURE.

- Connect a charging hose with a push pin to the Low side of a charging set and the service port of the 3-way valve.
- Be sure to connect the end of the charging hose with the push pin to the service port.
- Connect the center hose of the charging set to a vacuum pump with check valve, or vacuum pump and vacuum pump adaptor.
- Turn on the power switch of the charging set and make sure that the needle in the gauge moves from 0 cmHg (0 MPa) to -76 cmHg (-0.1 MPa). Then evacuate the air approximately ten minutes.
- Close the Low side valve of the charging set and turn off the vacuum pump. Make sure that the needle in the gauge does not move after approximately five minutes.
- Tighten the service port caps of the 3-way valve at a torque of 18 N•m with a torque wrench.
- Remove the valve caps of both of the 2-way valve and 3-way valve. Position both of the valves to "OPEN" using a hexagonal wrench (4 mm).
- Mount valve caps onto the 2-way valve and the 3-way valve.
- Be sure to check for gas leakage.

If gauge needle does not move from 0 cmHg (0 MPa) to -76 cmHg (-0.1 MPa), in step ⑤) above take the following measure:

- If the leak stops when the piping connections are tightened further, continue working from step ⑤).
- If the leak does not stop when the connections are tightened, repair location of leak.
- Do not release refrigerant during piping work for installation and reinstallation.
- Take care of the liquid refrigerant, it may cause frostbite.

**2. PIPING INSULATION**

Please carry out insulation at pipe connection portion as mentioned in installation diagram under outdoor unit.

Please wrap insulated pipe and to prevent it water from going inside the piping.

**DISPOSAL OF DRAIN WATER**

If drain elbow is used, the unit should be placed on a stand which is taller than 3 cm.

If the unit is used in an area where temperature falls below 0°C for 2 or 3 days in succession, it is recommended not to use a drain elbow, for the drain water freezes and the fan will not rotate.

Install the hose at an angle so that the water smoothly flows out.

**EVALUATION OF THE PERFORMANCE**

Operate the unit at cooling/heating operation mode for fifteen minutes or more.

Measure the temperature of the intake and discharge air.

Ensure the difference between the intake temperature and the discharge is more than 8°C during Cooling operation or more than 14°C during Heating operation.

**CHECK ITEMS**

- Is there any gas leakage at flare nut connections?
- Has the heat insulation been carried out at flare nut connection?
- Is the connection cable being fixed to terminal board firmly?
- Is the connection cable being clamped firmly?
- Is the drainage OK? (Refer to "Check the drainage" section)
- Is the earth wire connection properly done?
- Is the indoor unit properly hooked to the installation plate?
- Is the power supply voltage complied with rated value?
- Is there any abnormal sound?
- Is the cooling/heating operation normal?
- Is the thermostat operation normal?
- Is the remote control's LCD operation normal?



Utensili necessari per l'installazione

Table listing tools and parts: 1 Cacciavite a stella, 2 Livella, 3 Trapano elettrico, 4 Chiave esagonale (4 mm), 5 Chiave inglese, 6 Tagliatubi, 7 Alasatore, 8 Taglierina, 9 Rivelatore fughe gas, 10 Mastro a nastro, 11 Termometro, 12 Megahmetro, 13 Multimetro, 14 Chiave dinamometrica, 15 N°4 (1,8 kgf/m), 16 Gruppo manometri, 17 Termometro, 18 N°4 (4,2 kgf/m), 19 N°5 (5,5 kgf/m), 20 N°15 (3,3 kgf/m), 21 N°13 (2,2 kgf/m), 22 N°14 (2,5 kgf/m), 23 N°16 (3,5 kgf/m), 24 N°18 (4,0 kgf/m).

PRECAUZIONI PER LA SICUREZZA

- Prima dell'installazione leggere le seguenti "MISURE DI SICUREZZA".
Le opere elettriche vanno installate da un elettricista qualificato.
Non installare l'apparecchio vicino alla porta.

AVVERTENZA Questa indicazione implica possibilità di morte o ferite gravi.
ATTENZIONE Questo indicazione implica la possibilità di ferite o di danni solo a cose.

Questo simbolo con sfondo bianco definisce un VIETATO.
Questo simbolo con sfondo nero definisce azioni da effettuare.

Effettuare una prova di funzionamento per controllare possibili anomalie di installazione. Spiegare quindi all'utilizzatore l'uso e la manutenzione come specificato nelle istruzioni.

AVVERTENZA

- Non installare l'unità esterna in prossimità del cornicione della veranda.
Non usare un cavo non specificato, modificato, di connessione o una prolunga del cavo di alimentazione.
Non legare il cavo di alimentazione in un fascio.
Non inserire diti o altri oggetti nell'unità.

Per il modello R410A, usare tubi, dado di svassatura e attrezzi specifici per il refrigerante R410A.
Lo spessore dei tubi di rame utilizzati con R410A deve essere superiore a 0,8 mm.

Attenzione all'installazione al rivenditore autorizzato o personale qualificato.
Eseguire l'installazione scrupolosamente in base alle presenti istruzioni.

Per l'installazione, utilizzare le parti accessorie e le parti fornite.
Installare in un posto resistente e stabile, in grado di sostenere il peso dell'apparecchio.

Non utilizzare il cavo di connessione quale cavo di collegamento per l'unità interna/esterna.
Questo apparecchio deve disporre di uno scarico a terra; inoltre, si consiglia vivamente di dotarsi di un interruttore differenziale (ELCB) o un dispositivo di corrente residua (RCD).

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Mentre si scarica la pompa, arrestare il compressore prima di rimuovere la tubazione di refrigerazione.
Stringere le vassette con la chiave torsettistica secondo il metodo specificato.

Non toccare l'unità in alluminio anodizzato, parti all'attacco possono causare lesioni.
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Non installare l'apparecchio in un luogo dove ci sono perdite di gas infiammabili.
Non scaricare il refrigerante durante l'installazione o la reinstallazione dei tubi e durante la riparazione delle parti refrigeranti.

Non toccare l'unità in alluminio anodizzato, parti all'attacco possono causare lesioni.
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Collegare i tubi di drenaggio come descritto nelle istruzioni.
Collegamento per l'alimentazione dell'apparecchio.

Operazioni d'installazione.
Possibile essere necessarie due persone per effettuare l'installazione.

Parti accessorie
Accessori parte
Accessori parte

Funzionamento dell'interruttore automatico
È possibile eseguire le seguenti operazioni premendo l'interruttore "AUTO".

Cambio del codice di trasmissione del telecomando
1. Tenere premuto l'interruttore AUTO dell'unità interna per 11 secondi (suono del buzzer + pep pep pep).

Materiale richiesto
Fare riferimento al catalogo e ad altri materiali tecnici, quindi preparare i materiali richiesti.

Altri elementi da preparare (Acquisita a parte)
Nome prodotto
Osservazioni

Isolamento
Cavo di alimentazione
Cavo di collegamento interno/esterno

Adesivo
Adesivo per PVC
Pannello (J, S) (Normalmente aperto)

Isolamento
Cavo di alimentazione
Cavo di collegamento interno/esterno

Adesivo
Adesivo per PVC
Pannello (J, S) (Normalmente aperto)

Isolamento
Cavo di alimentazione
Cavo di collegamento interno/esterno

Adesivo
Adesivo per PVC
Pannello (J, S) (Normalmente aperto)

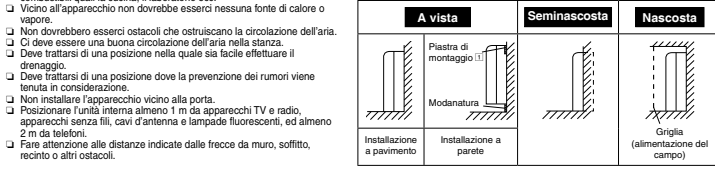
Isolamento
Cavo di alimentazione
Cavo di collegamento interno/esterno

Adesivo
Adesivo per PVC
Pannello (J, S) (Normalmente aperto)

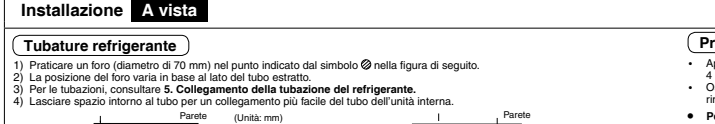
Isolamento
Cavo di alimentazione
Cavo di collegamento interno/esterno

1. SCEGLIERE UN LUOGO PER L'INSTALLAZIONE

Unità interna
Prima di scegliere il punto di installazione, ottenere l'autorizzazione dall'utente.



3. INSTALLAZIONE DELL'UNITÀ INTERNA
Installazione A vista
Tubature refrigerante



ATTENZIONE
Lunghezza minima del tubo consigliata è di 2,5 m per evitare rumori provenienti dall'unità esterna e vibrazioni.

Forare il muro e installare un manico per tubi
1. Inserire il manico per tubi nel foro.



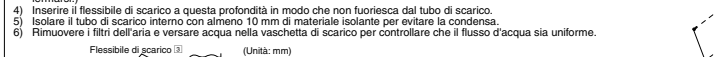
Tubatura di scarico
1. Per il tubo di scarico, utilizzare un tubo in cloruro di polivinile rigido commerciale.



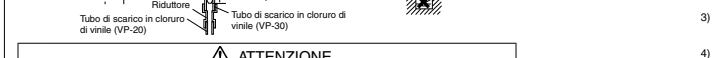
ATTENZIONE
Utilizzare agente adesivo in cloruro di polivinile per l'incollaggio.
La mancata osservanza di questa istruzione potrebbe causare perdite di acqua.

4. COLLEGAMENTO DEL FLESSIBILE DI SCARICO
5. COLLEGAMENTO DELLE TUBAZIONI DEL REFRIGERANTE

Isolamento delle tubazioni del refrigerante
1. Collegare il tubo dopo aver controllato la perdita di gas descritta in precedenza.



Controllo della perdita di gas
1. Controllare la perdita di gas dopo lo spurgo dell'aria.



6. COLLEGAMENTO DEL CAVO DI COLLEGAMENTO UNITÀ INTERNA/ESTERNA
1. Lasciare la piastra di fissaggio del sensore e rimuovere la piastra di rivestimento metallico anteriore.



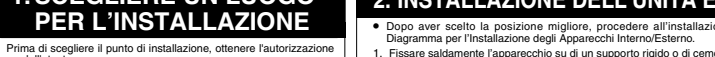
5. SVUOTAMENTO D MATERIALE
NELL'INSTALLARE UN CONDIZIONATORE D'ARIA, ACCERTARSI DI AVER ELIMINATO TUTTA L'ARIA ALL'INTERNO DELL'APPARECCHIO INTERNO E DEI TUBI nel modo seguente.



3. COLLEGAMENTO DELLE TUBAZIONI DEL REFRIGERANTE
1. Fissare la lunghezza dei tubi, quindi tagliare con i tagliatubi.



5. COLLEGAMENTO DEL CAVO ALL'UNITÀ ESTERNA
1. Rimuovere lo sportello della scheda di controllo dell'apparecchio allentando la vite.



7. PUNTI DA VERIFICARE
Ci sono perdite di gas nel punto di giunzione del dado svassato?
È stato fatto l'isolamento nel punto di giunzione del dado svassato?

7. PUNTI DA VERIFICARE
L'apparecchio interno è saldamente agganciato alla piastra per l'installazione?
Il voltaggio è conforme ai valori richiesti?

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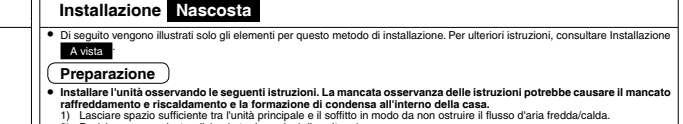
7. PUNTI DA VERIFICARE
L'apparecchio interno è saldamente agganciato alla piastra per l'installazione?
Il voltaggio è conforme ai valori richiesti?

2. SELEZIONE DI TUBO E MATERIALI ISOLANTI TERMICI

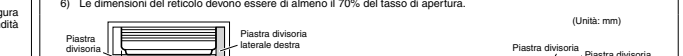
Quando si usano tubi di rame commerciali e relativi accessori, osservare quanto segue:
1) Materiale isolante: Schiuma in polietilene.

Table with columns: Modello, Dimensioni tubo, Dimensioni isolamento termico. Lists different models and their corresponding tube and insulation dimensions.

3. INSTALLAZIONE DELL'UNITÀ INTERNA
Installazione A vista
Tubature refrigerante

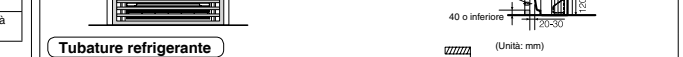


ATTENZIONE
È necessario utilizzare la piastra supplementare per l'installazione dell'unità interna per evitare spazi tra l'unità e la parete.



Tubature refrigerante
Tubazione inferiore sinistra, Tubazione inferiore destra, Tubazione laterale destra/sinistra.

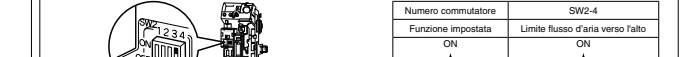
8. COLLEGAMENTO DEL CAVO DI COLLEGAMENTO UNITÀ INTERNA/ESTERNA
1. Lasciare la piastra di fissaggio del sensore e rimuovere la piastra di rivestimento metallico anteriore.



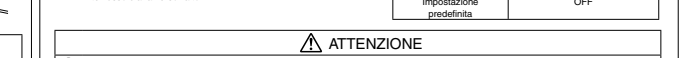
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NELL'INSTALLARE UN CONDIZIONATORE D'ARIA, ACCERTARSI DI AVER ELIMINATO TUTTA L'ARIA ALL'INTERNO DELL'APPARECCHIO INTERNO E DEI TUBI nel modo seguente.



3. COLLEGAMENTO DELLE TUBAZIONI DEL REFRIGERANTE
1. Fissare la lunghezza dei tubi, quindi tagliare con i tagliatubi.



5. COLLEGAMENTO DEL CAVO ALL'UNITÀ ESTERNA
1. Rimuovere lo sportello della scheda di controllo dell'apparecchio allentando la vite.



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Benodigd gereedschap voor de installatie

Table with 3 columns: Item number, Name, and Quantity. Lists tools like screwdriver, pliers, thermometer, etc.

VEILIGHEIDSMATREGELEN

- Lees aandachtig de volgende 'VEILIGHEIDSMATREGELEN' voordat u het toestel installeert. De elektricien dient te worden aangeleid door gekwalificeerd personeel.

Table with 2 columns: Symbol (Warning, Caution) and Description of the hazard and safety instructions.

De te volgen maatregelen zijn aangeduid met de volgende symbolen: Symbol met witte achtergrond verwijst naar item dat VERBODEN is.

Symbol met een donkere achtergrond verwijst naar een handeling die moet worden uitgevoerd.

WAARSCHUWING

- Installeer het buitenunit niet vlakbij de leuning van een balkon. Wanneer een airconditioning apparaat op de veranda van een verhoogd gebouw wordt geïnstalleerd, kan een kind aan het buitenunit omhoog klimmen.

WAARSCHUWING

- Gebruik voor de stroomvoorziening een gemiddeld snoer, een snoer dat uit delen is samengesteld, of een verlengsnoer. Gebruik niet een stopcontact waar ook andere elektrische apparaten op zijn aangesloten.

WAARSCHUWING

- Deze apparatuur moet geïnstalleerd worden op een vlakke, stevige ondergrond die het gewicht ervan kan dragen. Als de plaats van installatie niet stevig genoeg is of als de installatie niet goed wordt uitgevoerd, kan de apparatuur vallen en dat kan letsel tot gevolg hebben.

WAARSCHUWING

- Installeer het toestel niet op een plaats waar zich lekkage van ontvarenbare gas kan voordoen. Als er gas lekt en zich verzamelt in de omgeving van het toestel, kan dit brand veroorzaken.

WAARSCHUWING

- Installeer het toestel niet in een ruimte met overmatige vocht. Het toestel kan beschadigd raken door vocht. Het toestel kan beschadigd raken door vocht.

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1. DE INSTALLATIEPLAATS KIEZEN

Diagram showing installation options: Binnenunit (Indoor unit) and Installatieschema (Installation scheme) with sub-diagrams for Opbouw (Built-up), Half-opbouw (Semi-built-up), and Inbouw (Built-in).

3. INSTALLATIE VAN DE BINNENUNIT

Opbouwinstallatie

Diagram for Koelmiddelleiding (Refrigerant piping) showing connections for Binnen (Indoor) and Buiten (Outdoor) units.

Diagram for OPGEPAST (Caution) showing minimum installation length and maximum length for different piping configurations.

Boren van een gehad in de muur en plaatsen van een mot voor de leiding

Diagram showing the process of drilling a hole in the wall and installing a sleeve for the refrigerant pipe.

Afvoerleiding (Condensate drain)

Diagram showing the installation of a condensate drain pipe, including the use of a trap and connection to the sewer.

OPGEPAST (Caution)

Gebruik polyvinylchloride lijn voor het lijmen. Als u dat niet doet, kan er water lekken.

4. AANSLUITEN VAN DE AFTAPSLANG

Diagram showing the connection of the condensate drain pipe to the drain, including the use of a trap and connection to the sewer.

5. AANSLUITEN VAN DE KOELMIDDELEIDING

Diagram showing the connection of the refrigerant pipes to the indoor unit, including the use of a sleeve and connection to the wall.

2. SELECTIE VAN LEIDINGEN EN MATERIALEN VOOR WARMTE-ISOLATIE

Table with 3 columns: Model, Leidingafmeting (Pipe size), and Afmeting Thermische Isolatie (Thermal insulation size).

3. INSTALLATIE VAN DE BINNENUNIT

Opbouwinstallatie

Diagram for Koelmiddelleiding (Refrigerant piping) showing connections for Binnen (Indoor) and Buiten (Outdoor) units.

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Diagram showing installation options: Binnenunit (Indoor unit) and Installatieschema (Installation scheme) with sub-diagrams for Opbouw (Built-up), Half-opbouw (Semi-built-up), and Inbouw (Built-in).

2. DE BUITENUNIT INSTALLEREN

Diagram showing the installation of the outdoor unit, including the use of a sleeve and connection to the wall.

3. AANSLUITEN VAN DE KOELMIDDELEIDING

Diagram showing the connection of the refrigerant pipes to the indoor unit, including the use of a sleeve and connection to the wall.

4. DE APPARATUUR VACUÛM TREKKEN

Diagram showing the vacuuming process for the refrigerant system, including the use of a vacuum pump and connection to the system.

5. DE KABEL AANSLUITEN OP DE BUITENUNIT

Diagram showing the connection of the power cable to the outdoor unit, including the use of a sleeve and connection to the wall.

6. AANSLUITEN VAN DE BINNEN/BUITEN-VERBINDINGSKABEL

Diagram showing the connection of the indoor/outdoor connecting cable, including the use of a sleeve and connection to the wall.

7. AANSLUITEN VAN DE BINNEN/BUITEN-VERBINDINGSKABEL

Diagram showing the connection of the indoor/outdoor connecting cable, including the use of a sleeve and connection to the wall.

Vertical text 'B U I T E N U I T' running down the page.





Необходими инструменти за монтажа

- 1 Отвертка тип звезда
2 Нивор
3 Електрическа пробивна машина, средоро (Ø70 мм)
4 Ключ за шестозъбната гайка (4 мм)
5 Бечен ключ
6 Търбороз
7 Райбор
8 Нож
9 Динамометричен гачен ключ
10 Дататор
11 Термометър
12 Метор
13 Мултиутел
14 Динамометричен гачен ключ
15 Вакуумна помпа
16 Конектор с дребнотомор

ПРЕДПАЗНИ МЕРКИ

- Прочетете внимателно следните "ПРЕДПАЗНИ МЕРКИ" преди да извършите монтажа.
Електрически монтаж трябва да бъде извършен от правоспособен електрик. Уверете се, че щепселът и електрозахранването са подходящи номинални характеристики за модела, който ще инсталирате.
Предпазни мерки, включени тук, трябва да се изпълняват, тъй като вълновият им съдържание е свързано с безопасността. Значението на всяко използвано обозначение е както следва. Неправилен монтаж поради пренебрегване на инструкциите ще причини вреди или щети, класирани по степен на вълновост чрез следните обозначения.

Table with 2 columns: Symbol and Description. Includes symbols for 'ПРЕДУПРЕЖДЕНИЕ' (Warning) and 'ВНИМАНИЕ' (Attention).

- Неравно тежест, ако са свързани, че след монтажа не се наблюдава нормална работа. След това обяснете на потребителя начина на работа, необходимите грижи и поддръжка, посочени в инструкциите. Моля наблюдавайте на клиента да запази инструкцията за експлоатация за допълнителни справки.

ПРЕДУПРЕЖДЕНИЕ

- Не инсталирайте външния агрегат близо до парчетата на вярата. Ако монтирате климатика на вярата на висок строда, нивко дете може да се покачи на външния агрегат и да протресе парчетата, които може да доведат до нашествия слух.
Не използвайте кабел, който не е указан експлицитно, свързана кабел или удължителен шнур за захранваща мрежа. Не използвайте единичния контакт за включване на други електрически уреди. Лош контакт, лош контакт или свързките могат да причинят токов удар или пожар.

ВЪТРЕШНА ЧАСТ

- Не пийте и не ядете, когато работите с агрегата, тъй като високата скорост на въртене на вентилатора може да причини телесно нараняване.
Не стъпвайте или сядате върху агрегата, можете да паднете и да се нараните.

ВНИМАНИЕ

- Пазете найчистата торбичка (промоционален материал) далеч от миски дъжд, тъй като съществува риск от замърсяване.
Когато монтирате или смените местоположението на климатика, не оставайте друго вещество освен указания хладилни агент. Напр. въздух и тн в охладителната верига (тръби). Съсвоятото на въздуха и тн, ще причини необичайно високо налягане в охладителната верига, което може да доведе до експлозия, нараняване и т.н.

ВНИМАНИЕ

- Не докосвайте или замествайте хладилния агент с друг. Освен това, това може да причини повреда на продукта, експлозия и нараняване и тн.
За модел R410A, използвайте тръби, миксюр гайки и инструменти, посочени за хладилни агенти R410A. Използването на съществувалите (R22) тръби, миксюр гайки и инструменти може да доведе до необичайно високо налягане в охладителната верига (тръборезови) и евентуално да причини експлозия и нараняване.

ВНИМАНИЕ

- Обезопасете тръбата да бъде разположено правилно, така че клипсът на контролното табло да бъде правилно захранван. Ако клипсът на контролното табло не е захранен правилно, това ще причини пожар или електрически удар.
Извършете монтажа, като спазвате стриктно тези монтажни инструкции. Ако монтажът е неправилен, това ще причини токове на удар, електрически удар или пожар.

ВНИМАНИЕ

- Проверете, ако има изтичане на газообразен хладилен агент по време на работа. Може да се образува токсичен газ, ако хладилният агент влезе в контакт с огън.
Това обособяване трябва да бъде правено заедно. Не свързвайте заземляването към газови тръби, водопроводните тръби, гримотворни и телефонни линии. В противен случай има опасност от електрически удар.

ВНИМАНИЕ

- Не инсталирайте уреда на място, където може да настъпи изтичане на запалим газ. В случай че изтече газ и той се натрупа около уреда, това може да доведе до пожар.
Не купчайте хладилни агенти по време на тръборезови работи при монтаж, повторен монтаж и ремонт на части от охладителния механизъм. Винавайте с течния хладилни агент, той може да причини локални изгарявания.

ВНИМАНИЕ

- Извършете дренажа на тръборезовите, както е описано в монтажните инструкции. Ако дренажът не е изведен, в помещението може да навлезе вода, която да повреди мебелировката.
Изберете място за монтаж, лесно за поддръжка.

ВНИМАНИЕ

- Свързване на стабилна климатик към електрозахранването.
Използвайте захранващ кабел 3 x 1.5 mm (1.0 - 1.5NHP), 3 x 2.5 mm (2.0HP), тип 60245 IEC 57 или по-добър кабел.
Свързване захранващ кабел на климатика към електрическата мрежа, използвайте един от следните методи.
Точката на вл. захранващия тръба да бъде на тавана мрежа, че до него да има лесен достъп, ако се наложи изключване от ел. мрежата в случай на авария.
В някои страни е забранено осъществяването на постоянна връзка на този климатик към ел. мрежата.

ВНИМАНИЕ

- 1) Свързване на ел. захранващия кабел към контактите на устройството.
За свързване с контактите използвайте одобрен кабел: 15A 16A (1.0 - 1.5NHP), 16A (2.0HP) със заземляващ щифт.
2) Вълна на ел. захранващия кабел използвайте за постоянна свързване. Това трябва да бъде допълнително преписан с минимум 3.0 м разстояние между пластините.
3) Монтаж: Може да са нужни двама души за изпълнение на монтажа.

Допълнителни части

Table with 5 columns: No, Additional part, Qty, No, Additional part, Qty. Lists parts like Mounting plate, Battery, Stand, Drainage pipe, etc.

Работа в автоматичен режим

Следните операции могат да бъдат изпълнени след натискане на бутона "AUTO".
1. АВТОМАТИЧЕН РЕЖИМ НА РАБОТА
Автоматичен режим на работа се включва автоматично след натискането на бутона "Auto".

Смяна на кода на предаване на дистанционното управление

1. Натиснете и задръжте бутона AUTO на външния агрегат за 11 секунди (сигнален звук 4 пъти пип пип)
2. След 11 секунди, освободете бутона AUTO, след което натиснете и задръжте бутона TIMER ▼ на дистанционното управление за 5 секунди. Кодът за изпращане ще бъде предаден. След промяна на код за изпращане, освободете бутона TIMER ▼.

Промяна на номера на дистанционното управление в Дистанционното управление

1. Извадете батерията от отделението за батерии на дистанционното управление.
2. Отпадна от отделението за батерии има малък отвор, в средата на който може да се види светодиод (L.A). Освен това, в PCB на дистанционното управление, показан по-долу, може да се види светодиод (J.B).

Table with 4 columns: J\_A, J\_B, No. on remote control, No. on remote control. Lists combinations of LEDs for remote control settings.

Необходим материал

- Разпадателите катодни и другите технически материали и подгответе необходимите материали.
Други необходими елементи (Закупени На Място)

Table with 4 columns: Name, Description, Name, Description. Lists materials like PVC tape, PVC tape, PVC tape, etc.

1. ИЗБИРАНЕ НА МЯСТОТО ЗА МОНТИРАНЕ НА ДИСТАНЦИОННОТО УПРАВЛЕНИЕ

Diagram showing installation locations for remote control: Open, Semi-open, Hidden. Includes dimensions and notes about avoiding heat sources and ensuring ventilation.

3. ИНСТАЛИРАЙТЕ ВЪТРЕШНИЯ АГРЕГАТ

Diagram for 'Открит монтаж' (Open installation) showing wall and floor mounting options with dimensions and notes about avoiding obstacles.

Diagram for 'Полускрит монтаж' (Semi-hidden installation) showing wall and floor mounting options with dimensions and notes about avoiding obstacles.

Diagram for 'Скрит монтаж' (Hidden installation) showing wall and floor mounting options with dimensions and notes about avoiding obstacles.

4. СВЪРЗВАНЕ НА ДРЕНАЖНИЯ МАРКУЧ

Diagram showing drainage connection steps: 1. Check distance to drainage outlet. 2. Connect to drainage outlet. 3. Check for leaks.

5. СВЪРЗВАНЕ НА ТРЪБИТЕ ЗА ХЛАДИЛНИЯ АГЕНТ

Diagram showing refrigerant pipe connection steps: 1. Check distance to drainage outlet. 2. Connect to drainage outlet. 3. Check for leaks.

6. СВЪРЗВАНЕ НА СВЪРЗВАЩИЯ КАБЕЛ ЗА ВЪТРЕШНИЯ/ВЪНШНИЯ АГРЕГАТ

Diagram showing cable connection steps: 1. Connect to indoor unit. 2. Connect to outdoor unit. 3. Check for leaks.

7. СВЪРЗВАНЕ НА СВЪРЗВАЩИЯ КАБЕЛ ЗА ВЪТРЕШНИЯ/ВЪНШНИЯ АГРЕГАТ

Diagram showing cable connection steps: 1. Connect to indoor unit. 2. Connect to outdoor unit. 3. Check for leaks.

1. ИЗБИРАНЕ НА МЯСТОТО ЗА МОНТИРАНЕ НА ДИСТАНЦИОННОТО УПРАВЛЕНИЕ

Diagram showing installation locations for remote control: Open, Semi-open, Hidden. Includes dimensions and notes about avoiding heat sources and ensuring ventilation.

2. МОНТИРАНЕ НА ВЪНШНИЯ АГРЕГАТ

Diagram showing outdoor unit installation steps: 1. Choose location. 2. Prepare wall. 3. Mount unit.

3. СВЪРЗВАНЕ НА ТРЪБИТЕ ЗА ХЛАДИЛНИЯ АГЕНТ

Diagram showing refrigerant pipe connection steps: 1. Check distance to drainage outlet. 2. Connect to drainage outlet. 3. Check for leaks.

4. ОБЕЗВЪЗДУШАВАНЕ НА ОБОРУДВАНЕТО

Diagram showing vacuuming steps: 1. Connect vacuum pump. 2. Evacuate system. 3. Check pressure.

2. ИЗБОР НА ТРЪБА И ТОПЛОИЗОЛАЦИОННИ МАТЕРИАЛИ

Table showing pipe and insulation selection criteria based on model and room type. Includes notes on temperature and agent type.

3. ИНСТАЛИРАЙТЕ ВЪТРЕШНИЯ АГРЕГАТ

Diagram for 'Открит монтаж' (Open installation) showing wall and floor mounting options with dimensions and notes about avoiding obstacles.

Diagram for 'Полускрит монтаж' (Semi-hidden installation) showing wall and floor mounting options with dimensions and notes about avoiding obstacles.

Diagram for 'Скрит монтаж' (Hidden installation) showing wall and floor mounting options with dimensions and notes about avoiding obstacles.

4. СВЪРЗВАНЕ НА ДРЕНАЖНИЯ МАРКУЧ

Diagram showing drainage connection steps: 1. Check distance to drainage outlet. 2. Connect to drainage outlet. 3. Check for leaks.

5. СВЪРЗВАНЕ НА ТРЪБИТЕ ЗА ХЛАДИЛНИЯ АГЕНТ

Diagram showing refrigerant pipe connection steps: 1. Check distance to drainage outlet. 2. Connect to drainage outlet. 3. Check for leaks.

6. СВЪРЗВАНЕ НА СВЪРЗВАЩИЯ КАБЕЛ ЗА ВЪТРЕШНИЯ/ВЪНШНИЯ АГРЕГАТ

Diagram showing cable connection steps: 1. Connect to indoor unit. 2. Connect to outdoor unit. 3. Check for leaks.

7. СВЪРЗВАНЕ НА СВЪРЗВАЩИЯ КАБЕЛ ЗА ВЪТРЕШНИЯ/ВЪНШНИЯ АГРЕГАТ

Diagram showing cable connection steps: 1. Connect to indoor unit. 2. Connect to outdoor unit. 3. Check for leaks.

1. ИЗБИРАНЕ НА МЯСТОТО ЗА МОНТИРАНЕ НА ДИСТАНЦИОННОТО УПРАВЛЕНИЕ

Diagram showing installation locations for remote control: Open, Semi-open, Hidden. Includes dimensions and notes about avoiding heat sources and ensuring ventilation.

2. МОНТИРАНЕ НА ВЪНШНИЯ АГРЕГАТ

Diagram showing outdoor unit installation steps: 1. Choose location. 2. Prepare wall. 3. Mount unit.

3. СВЪРЗВАНЕ НА ТРЪБИТЕ ЗА ХЛАДИЛНИЯ АГЕНТ

Diagram showing refrigerant pipe connection steps: 1. Check distance to drainage outlet. 2. Connect to drainage outlet. 3. Check for leaks.

4. ОБЕЗВЪЗДУШАВАНЕ НА ОБОРУДВАНЕТО

Diagram showing vacuuming steps: 1. Connect vacuum pump. 2. Evacuate system. 3. Check pressure.













