

AIR CONDITIONING SYSTEMS ΚΛΙΜΑΤΙΣΤΙΚΑ ΣΥΣΤΗΜΑΤΑ

Models: O1MVI-09WFR/O1MVO-09
O1MVI-12WFR/O1MVO-12
O1MVI-18WFR/O1MVO-18
O1MVI-24WFR/O1MVO-24

Wall Mounted Air-Conditioning Unit **Installation Manual**

Επιτοίχια Μονάδα Κλιματισμού **Εγχειρίδιο Εγκατάστασης**

Σας ευχαριστούμε που επιλέξατε τη μονάδα κλιματισμού της INVENTOR. Για τη σωστή χρήση της μονάδας, παρακαλούμε διαβάστε προσεκτικά το παρόν εγχειρίδιο και φυλάξτε το για αναφορά στο μέλλον.

Thank you for choosing INVENTOR air conditioning system. For correct use of this unit, please read this manual carefully and keep it for future reference.

English/Ελληνικά/Română

 **inventor**[®]
Your-conditions

Table of Contents

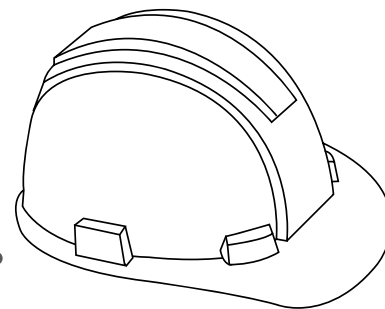
Installation Manual

0	Safety Precautions	4
---	--------------------------	---

1	Accessories	6
---	-------------------	---

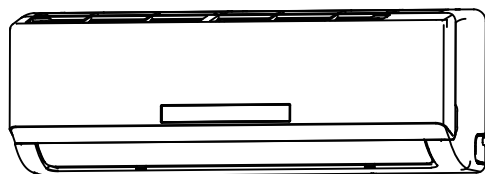
2	Installation Summary - Indoor Unit	8
---	--	---

3	Unit Parts	10
---	------------------	----



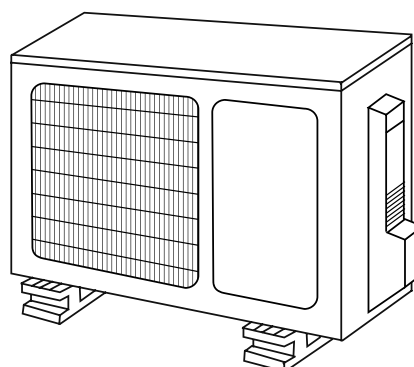
4	Indoor Unit Installation	11
---	--------------------------------	----

1. Select installation location 11
2. Attach mounting plate to wall 12
3. Drill wall hole for connective piping 12
4. Prepare refrigerant piping 14
5. Connect drain hose 15
6. Connect signal cable 17
7. Wrap piping and cables 18
8. Connect indoor power wire 18
9. Mount indoor unit 18



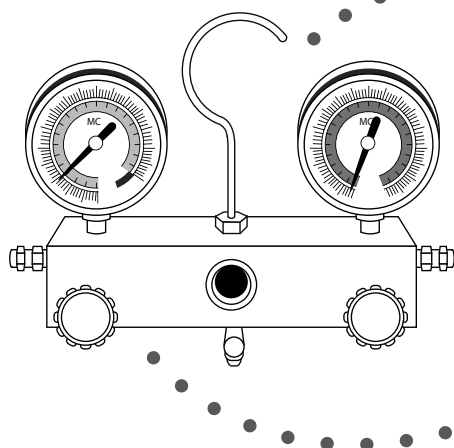
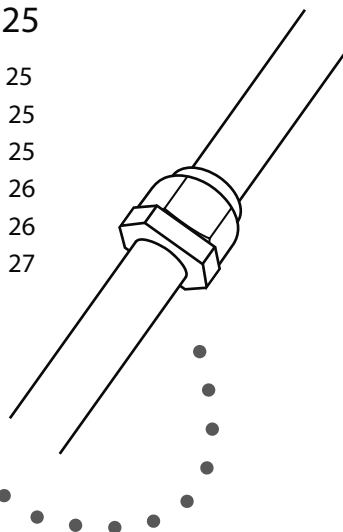
5	Outdoor Unit Installation	20
---	---------------------------------	----

1. Select installation location 20
2. Install drain joint 21
3. Anchor outdoor unit 22
4. Connect signal and power cables ... 23



6 Refrigerant Piping Connection 25

- A. Note on Pipe Length 25
- B. Connection Instructions –Refrigerant Piping 25
 - 1. Cut pipe 25
 - 2. Remove burrs 26
 - 3. Flare pipe ends 26
 - 4. Connect pipes 27



7 Air Evacuation 29

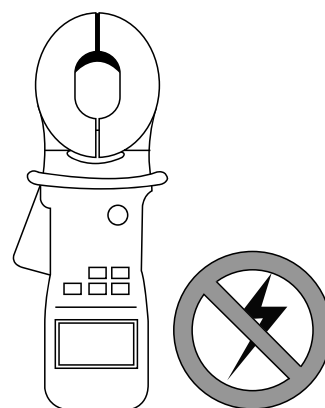
- 1. Evacuation Instructions 29
- 2. Note on Adding Refrigerant 30



8 Electrical and Gas Leak Checks 31

9 Test Run 32

10 European Disposal Guidelines 34



Safety Precautions

Read Safety Precautions Before Installation

Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a WARNING or CAUTION.



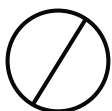
WARNING

This symbol indicates that ignoring instructions may cause death or serious injury.



CAUTION

This symbol indicates that ignoring instructions may cause moderate injury to your person, or damage to your unit or other property.



This symbol indicates that you must never perform the action indicated.



WARNING

- ⊘ Do not modify the length of the power supply cord or use an extension cord to power the unit. Do not share the electrical outlet with other appliances. Improper or insufficient power supply can cause fire or electrical shock.
- ⊘ When connecting refrigerant piping, do not let substances or gases other than the specified refrigerant enter the unit. The presence of other gases or substances will lower the unit's capacity, and can cause abnormally high pressure in the refrigeration cycle. This can cause explosion and injury.
- ⊘ Do not allow children to play with the air conditioner. Children must be supervised around the unit at all times.
 1. Installation must be performed by an authorized dealer or specialist. Defective installation can cause water leakage, electrical shock, or fire.
 2. Installation must be performed according to the installation instructions. Improper installation can cause water leakage, electrical shock, or fire.
(In North America, installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.)
 3. Contact an authorized service technician for repair or maintenance of this unit.
 4. Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and can cause the unit to fail.
 5. Install the unit in a firm location that can support the unit's weight. If the chosen location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage.

WARNING

6. For all electrical work, follow all local and national wiring standards, regulations, and the Installation Manual. You must use an independent circuit and single outlet to supply power. Do not connect other appliances to the same outlet. Insufficient electrical capacity or defects in electrical work can cause electrical shock or fire.
7. For all electrical work, use the specified cables. Connect cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and may also cause shock.
8. All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.
9. In certain functional environments, such as kitchens, server rooms, etc., the use of specially designed air-conditioning units is highly recommended.

CAUTION

- ⊘ For units that have an auxiliary electric heater, do not install the unit within 1 meter (3 feet) of any combustible materials.
 - ⊘ Do not install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause fire.
 - ⊘ Do not operate your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water can cause electrical components to short circuit.
1. The product must be properly grounded at the time of installation, or electrical shock may occur.
 2. Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.

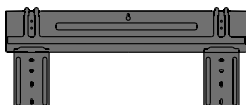
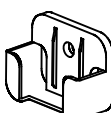
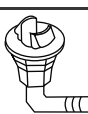
Note about Fluorinated Gasses

1. This air-conditioning unit contains fluorinated gasses. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself.
2. Installation, service, maintenance and repair of this unit must be performed by a certified technician.
3. Product uninstallation and recycling must be performed by a certified technician.
4. If the system has a leak-detection system installed, it must be checked for leaks at least every 12 months.
5. When the unit is checked for leaks, proper record-keeping of all checks is strongly recommended.

Accessories

1

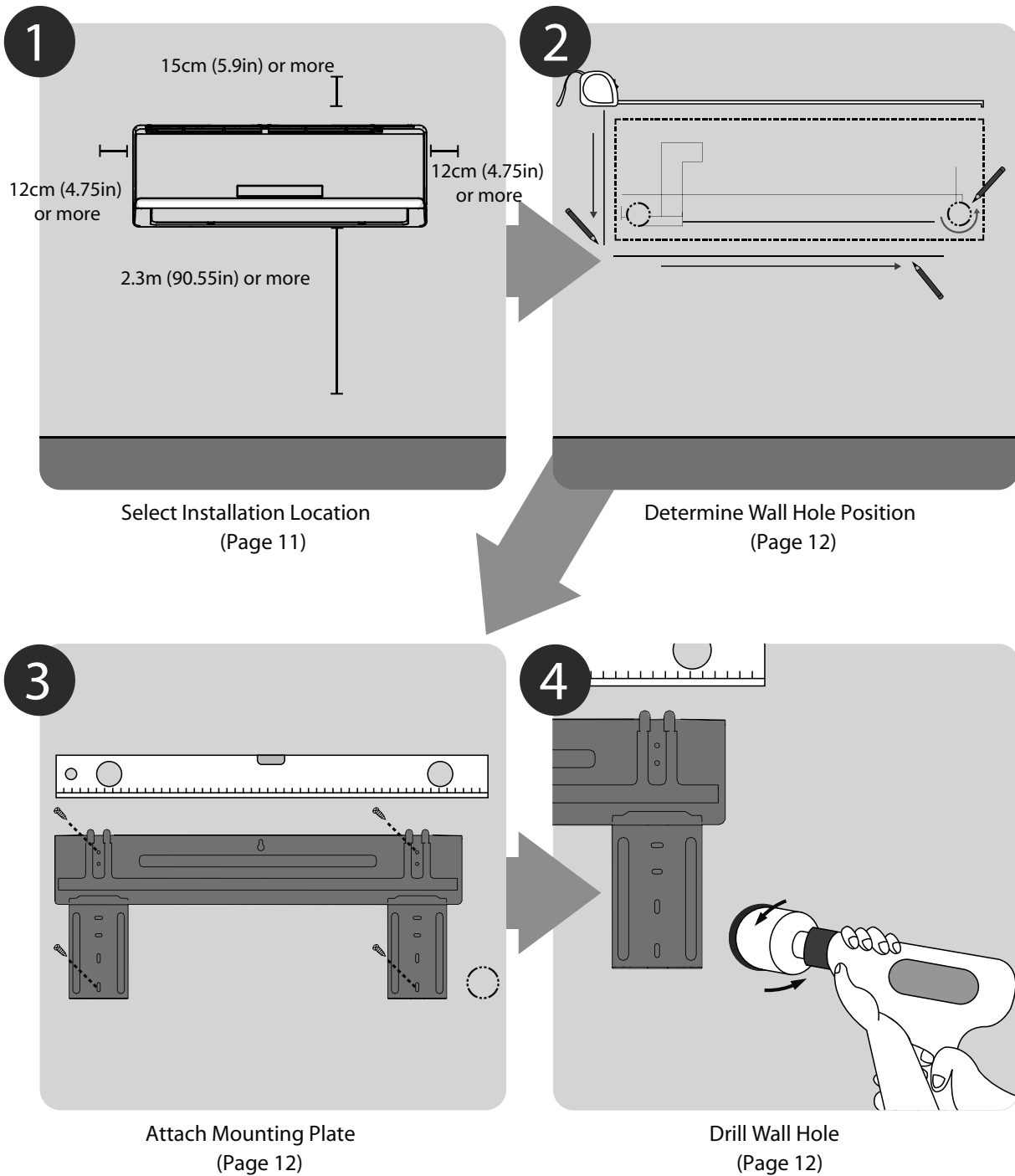
The air conditioning system comes with the following accessories. Use all of the installation parts and accessories to install the air conditioner. Improper installation may result in water leakage, electrical shock and fire, or cause the equipment to fail.

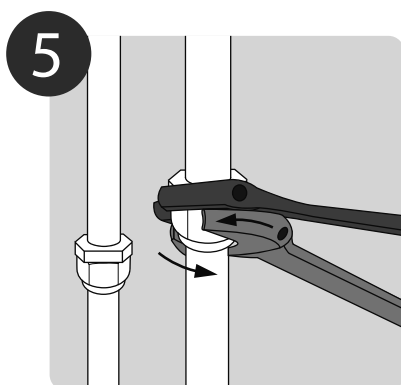
Name	Shape	Quantity	
Mounting plate		1	
Clip anchor		5	
Mounting plate fixing screw ST3.9 X 25		5	
Remote controller		1	
Fixing screw for remote controller holder ST2.9 x 10		2	Optional Parts
Remote controller holder		1	
Dry battery AAA.LR03		2	
Air freshening filter		1	
Seal		1 (for cooling & heating models only)	
Drain joint			

Name		Shape	Quantity
Owner's manual			1
Installation manual			1
Remote controller illustration			1
Connecting pipe assembly	Liquid side	Φ 6.35 (1/4in)	Parts you must purchase. Consult the dealer about the pipe size.
		Φ 9.52 (3/8in)	
	Gas side	Φ 9.52 (3/8in)	
		Φ 12.7 (1/2in)	
		Φ 16 (5/8in)	

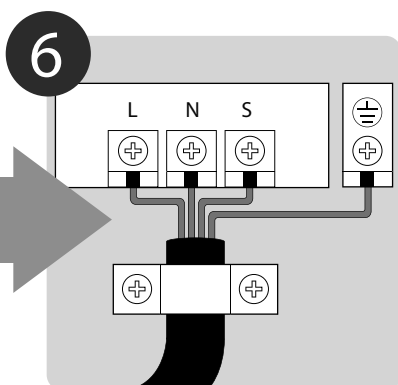
Installation Summary - Indoor Unit

2

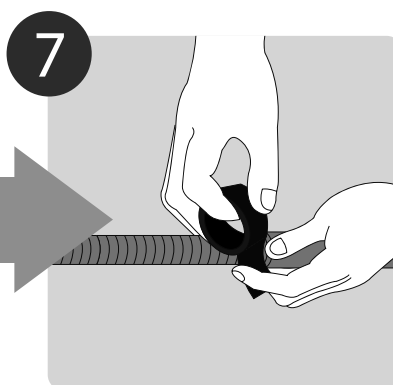




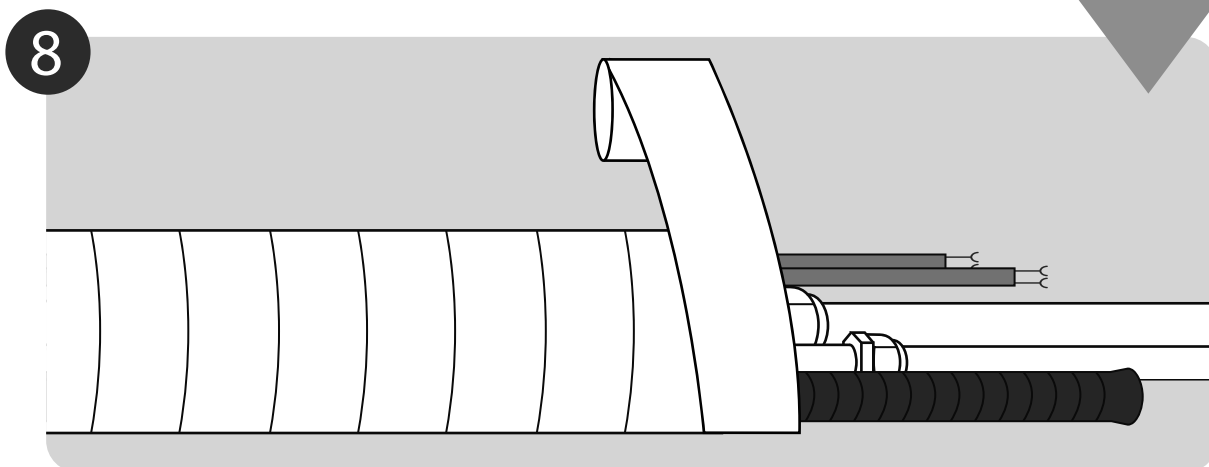
Connect Piping
(Page 25)



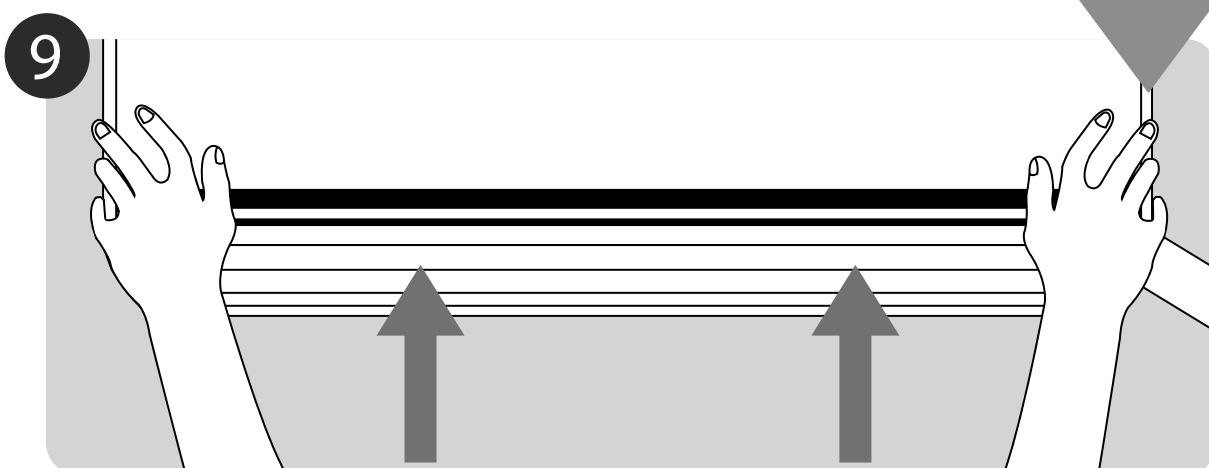
Connect Wiring
(Page 17)



Prepare Drain Hose
(Page 14)



Wrap Piping and Cable
(Page 18)



Mount Indoor Unit
(Page 18)

Unit Parts

3

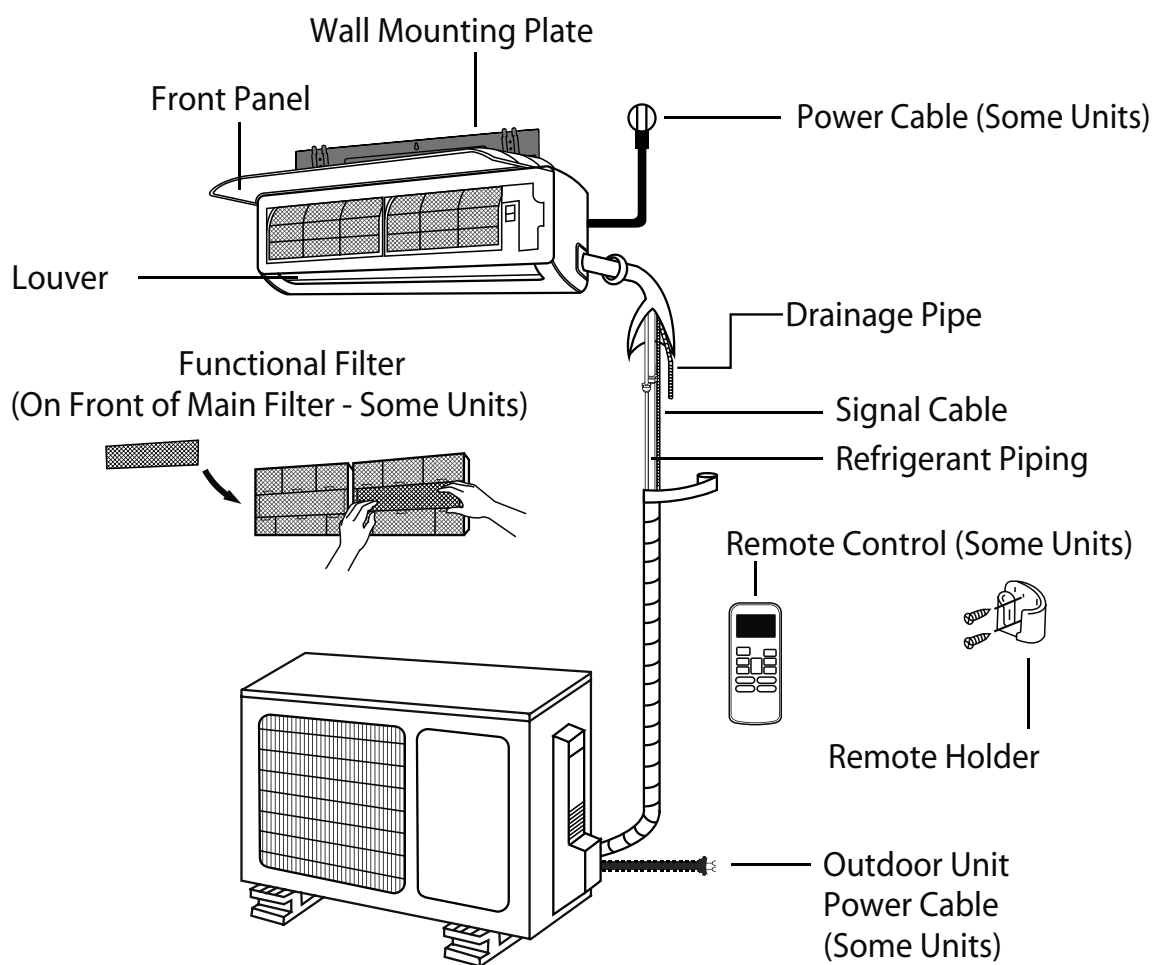


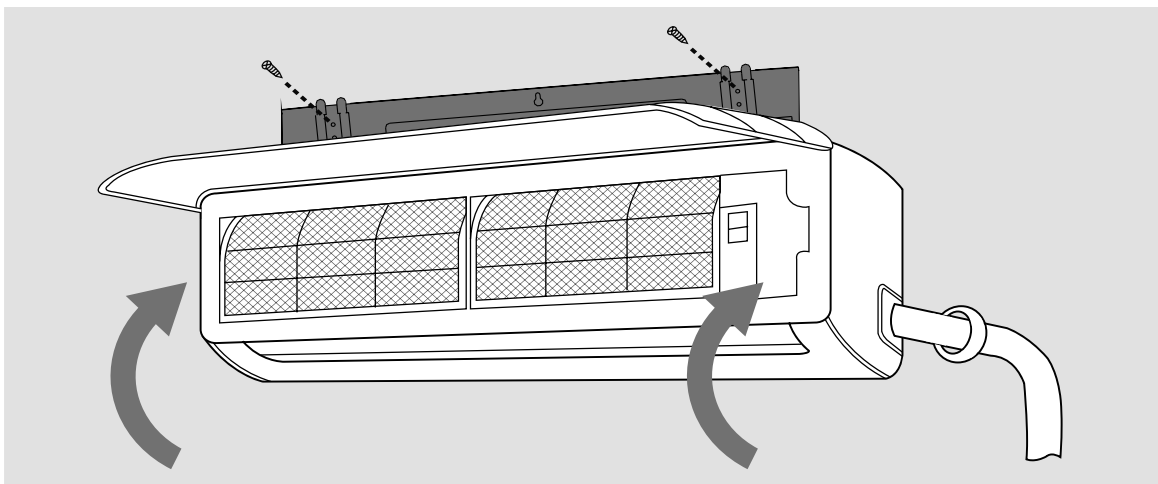
Fig. 2.1

NOTE ON ILLUSTRATIONS

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

Indoor Unit Installation

4



Indoor Unit
Installation

Installation Instructions – Indoor Unit

PRIOR TO INSTALLATION

Before installing the indoor unit, refer to the label on the product box to make sure that the model number of the indoor unit matches the model number of the outdoor unit.

Step 1: Select installation location

Before installing the indoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

- ☑ Good air circulation
- ☑ Convenient drainage
- ☑ Noise from the unit will not disturb other people
- ☑ Firm and solid—the location will not vibrate
- ☑ Strong enough to support the weight of the unit
- ☑ A location at least one meter from all other electrical devices (e.g., TV, radio, computer)

DO NOT install unit in the following locations:

- ⊘ Near any source of heat, steam, or combustible gas
- ⊘ Near flammable items such as curtains or clothing
- ⊘ Near any obstacle that might block air circulation
- ⊘ Near the doorway
- ⊘ In a location subject to direct sunlight

NOTE ABOUT WALL HOLE:

If there is no fixed refrigerant piping:

While choosing a location, be aware that you should leave ample room for a wall hole (see Drill wall hole for connective piping step) for the signal cable and refrigerant piping that connect the indoor and outdoor units. The default position for all piping is the right side of the indoor unit (while facing the unit). However, the unit can accommodate piping to both the left and right.

Refer to the following diagram to ensure proper distance from walls and ceiling:

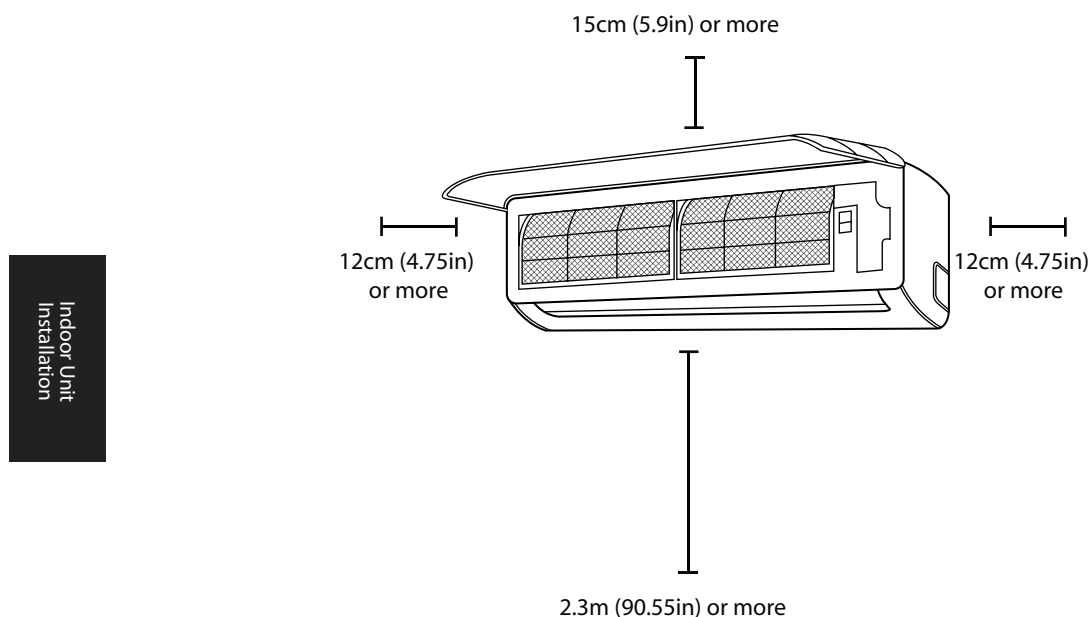


Fig. 3.1

Step 2: Attach mounting plate to wall

The mounting plate is the device on which you will mount the indoor unit.

1. Remove the screw that attaches the mounting plate to the back of the indoor unit.
2. Place the mounting plate against the wall in a location that meets the standards in the Select Installation Location step. (See Mounting Plate Dimensions for detailed information on mounting plate sizes.)
3. Drill holes for mounting screws in places that:
 - have studs and can support the weight of the unit
 - correspond to screw holes in the mounting plate
4. Secure the mounting plate to the wall with the screws provided.
5. Make sure that mounting plate is flat against the wall.

NOTE FOR CONCRETE OR BRICK WALLS:

If the wall is made of brick, concrete, or similar material, drill 5mm-diameter (0.2in-diameter) holes in the wall and insert the sleeve anchors provided. Then secure the mounting plate to the wall by tightening the screws directly into the clip anchors.

Step 3: Drill wall hole for connective piping

You must drill a hole in the wall for refrigerant piping, the drainage pipe, and the signal cable that will connect the indoor and outdoor units.

1. Determine the location of the wall hole based on the position of the mounting plate. Refer to Mounting Plate Dimensions on the next page to help you determine the optimal position. The wall hole should have a 65mm (2.5in) diameter at least, and at a slightly lower angle to facilitate drainage.
2. Using a 65-mm (2.5in) core drill, drill a hole in the wall. Make sure that the hole is drilled at a slight downward angle, so that the outdoor end of the hole is lower than the indoor end by about 5mm to 7mm (0.2-0.275in). This will ensure proper water drainage. (See Fig. 3.2)
3. Place the protective wall cuff in the hole. This protects the edges of the hole and will help seal it when you finish the installation process.

! CAUTION

When drilling the wall hole, make sure to avoid wires, plumbing, and other sensitive components.

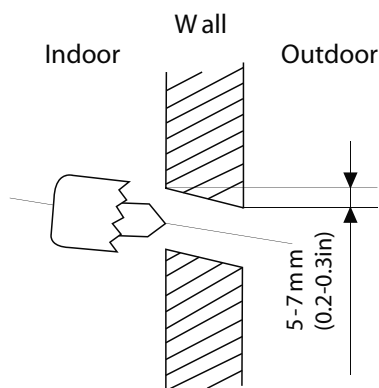


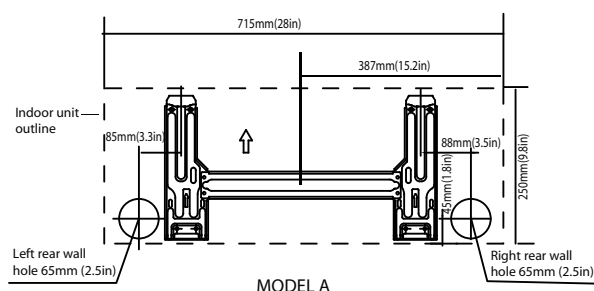
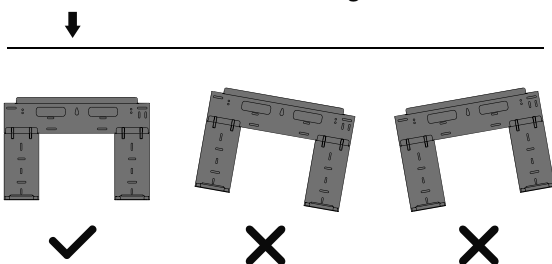
Fig. 3.2

MOUNTING PLATE DIMENSIONS

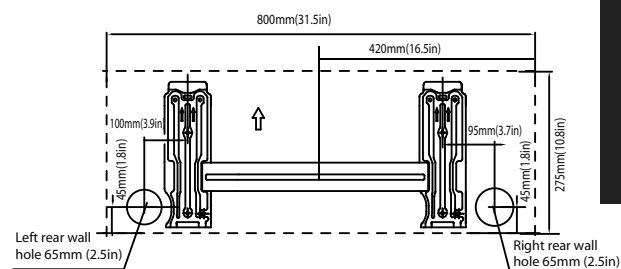
Different models have different mounting plates. In order to ensure that you have ample room to mount the indoor unit, the diagrams to the right show different types of mounting plates along with the following dimensions:

- Width of mounting plate
- Height of mounting plate
- Width of indoor unit relative to plate
- Height of indoor unit relative to plate
- Recommended position of wall hole (both to the left and right of mounting plate)
- Relative distances between screw holes

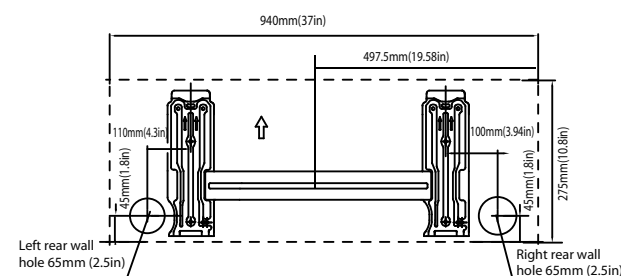
Correct orientation of Mounting Plate



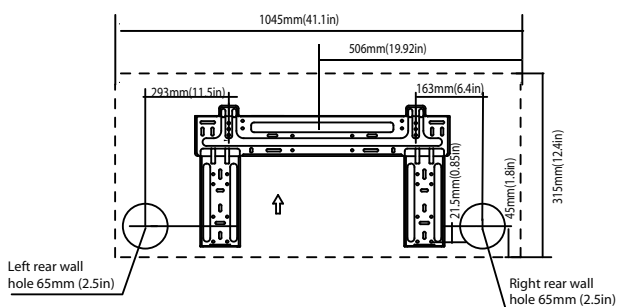
MODEL A



MODEL B



MODEL C



MODEL D

Indoor Unit
Installation

Step 4: Prepare refrigerant piping

The refrigerant piping is inside an insulating sleeve attached to the back of the unit. You must prepare the piping before passing it through the hole in the wall. Refer to the Refrigerant Piping Connection section of this manual for detailed instructions on pipe flaring and flare torque requirements, technique, etc.

1. Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit.
2. If the wall hole is behind the unit, keep the knock-out panel in place. If the wall hole is to the side of the indoor unit, remove the plastic knock-out panel from that side of the unit. (See Fig. 3.3). This will create a slot through which your piping can exit the unit. Use needle nose pliers if the plastic panel is too difficult to remove by hand.

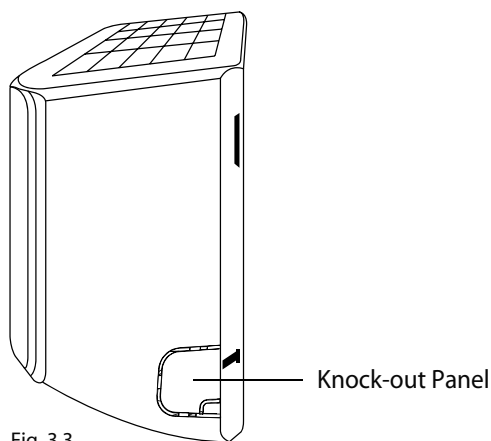


Fig. 3.3

3. Use scissors to cut down the length of the insulating sleeve to reveal about 15cm (6in) of the refrigerant piping. This serves two purposes:
 - To facilitate the Refrigerant Piping Connection process
 - To facilitate Gas Leak Checks and enable you to check for dents
4. If existing connective piping is already embedded in the wall, proceed directly to the Connect Drain Hose step. If there is no embedded piping, connect the indoor unit's refrigerant piping to the connective piping that will join the indoor and outdoor units. Refer to the Refrigerant Piping Connection section of this manual for detailed instructions.
5. Based on the position of the wall hole relative to the mounting plate, determine the necessary angle of your piping.
6. Grip the refrigerant piping at the base of the bend.
7. Slowly, with even pressure, bend the piping towards the hole. Do not dent or damage the piping during the process.

NOTE ON PIPING ANGLE

Refrigerant piping can exit the indoor unit from four different angles:

- Left-hand side
- Left rear
- Right-hand side
- Right rear

Refer to Fig. 3.4 for details.

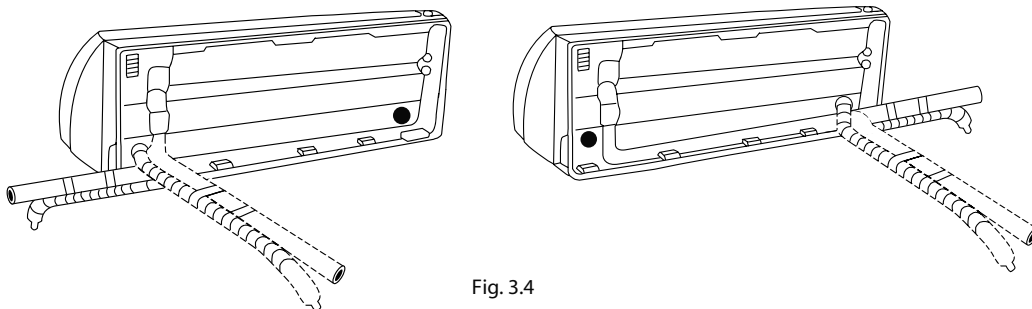


Fig. 3.4

! CAUTION

Be extremely careful not to dent or damage the piping while bending them away from the unit. Any dents in the piping will affect the unit's performance.

Step 5: Connect drain hose

By default, the drain hose is attached to the left-hand side of unit (when you're facing the back of the unit). However, it can also be attached to the right-hand side.

1. To ensure proper drainage, attach the drain hose on the same side that your refrigerant piping exits the unit.
2. Attach drain hose extension (purchased separately) to the end of drain hose.
3. Wrap the connection point firmly with Teflon tape to ensure a good seal and to prevent leaks.
4. For the portion of the drain hose that will remain indoors, wrap it with foam pipe insulation to prevent condensation.
5. Remove the air filter and pour a small amount of water into the drain pan to make sure that water flows from the unit smoothly.

NOTE ON DRAIN HOSE PLACEMENT

Make sure to arrange the drain hose according to Fig. 3.5 .

- ⊘ DO NOT kink the drain hose.
- ⊘ DO NOT create a water trap.
- ⊘ DO NOT put the end of drain hose in water or a container that will collect water.

PLUG THE UNUSED DRAIN HOLE

To prevent unwanted leaks you must plug the unused drain hole with the rubber plug provided.

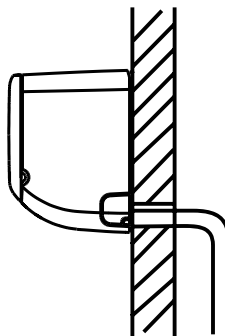
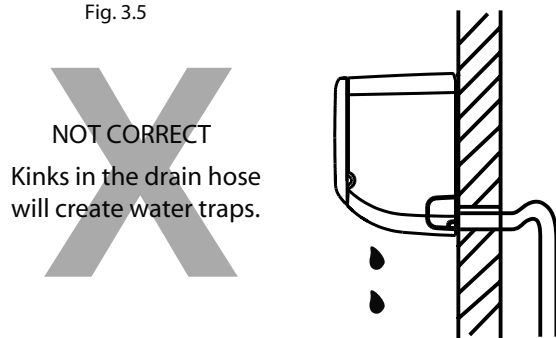


Fig. 3.5

CORRECT
Make sure there are no kinks or dent in drain hose to ensure proper drainage.



NOT CORRECT
Kinks in the drain hose will create water traps.

Fig. 3.6

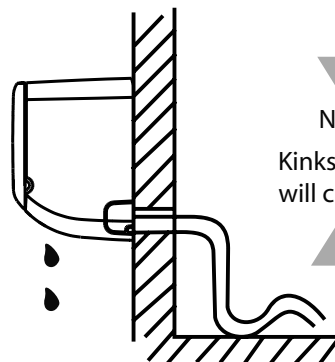
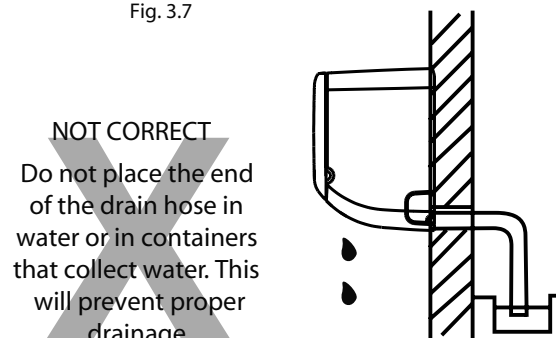


Fig. 3.7

NOT CORRECT
Kinks in the drain hose will create water traps.



NOT CORRECT
Do not place the end of the drain hose in water or in containers that collect water. This will prevent proper drainage.

Fig. 3.8

 BEFORE PERFORMING ELECTRICAL WORK, READ THESE REGULATIONS

1. All wiring must comply with local and national electrical codes, and must be installed by a licensed electrician.
2. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
4. Power voltage should be within 90-100% of rated voltage. Insufficient power supply can cause malfunction, electrical shock, or fire.
5. If connecting power to fixed wiring, install a surge protector and main power switch with a capacity of 1.5 times the maximum current of the unit.
6. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or.
7. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
8. Make sure to properly ground the air conditioner.
9. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
10. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
11. If the unit has an auxiliary electric heater, it must be installed at least 1 meter (40in) away from any combustible materials.

 WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK , TURN OFF THE MAIN POWER TO THE SYSTEM .

Step 6: Connect signal cable

The signal cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.

Cable Types

- Indoor Power Cable (if applicable): H05VV-F or H05V2V2-F
- Outdoor Power Cable: H07RN-F
- Signal Cable: H07RN-F

Minimum Cross-Sectional Area of Power and Signal Cables

North America

Appliance Amps (A)	AWG
10	18
13	16
18	14
25	12
30	10

Other Regions

Rated Current of Appliance (A)	Nominal Cross-Sectional Area (mm ²)
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1.0
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

CHOOSE THE RIGHT CABLE SIZE

The size of the power supply cable, signal cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit. Refer to this nameplate to choose the right cable, fuse, or switch.

TAKE NOTE OF FUSE SPECIFICATIONS

The air conditioner's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board, such as: T3.15A/250VAC, T5A/250VAC, etc.

1. Prepare the cable for connection:
 - a. Using wire strippers, strip the rubber jacket from both ends of signal cable to reveal about 15cm (6in) of the wires inside.
 - b. Strip the insulation from the ends of the wires.
 - c. Using wire crimper, crimp u-type lugs on the ends of the wires.

PAY ATTENTION TO LIVE WIRE

While crimping wires, make sure you clearly distinguish the Live ("L") Wire from other wires.

2. Open front panel of the indoor unit.
3. Using a screwdriver, open the wire box cover on the right side of the unit. This will reveal the terminal block.

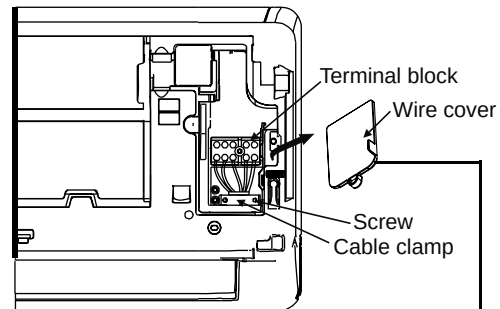


Fig. 3.9

The Wiring Diagram is located on the inside of the indoor unit's wire cover.

⚠ WARNING

ALL WIRING MUST PERFORMED STRICTLY IN ACCORDANCE WITH THE WIRING DIAGRAM LOCATED ON THE INSIDE OF THE INDOOR UNIT'S WIRE COVER.

4. Unscrew the cable clamp below the terminal block and place it to the side.
5. Facing the back of the unit, remove the plastic panel on the bottom left-hand side.

6. Feed the signal wire through this slot, from the back of the unit to the front.
7. Facing the front of the unit, match the wire colors with the labels on the terminal block, connect the u-lug and and firmly screw each wire to its corresponding terminal.

! CAUTION

DO NOT MIX UP LIVE AND NULL WIRES

This is dangerous, and can cause the air conditioning unit to malfunction.

8. After checking to make sure every connection is secure, use the cable clamp to fasten the signal cable to the unit. Screw the cable clamp down tightly.
9. Replace the wire cover on the front of the unit, and the plastic panel on the back.

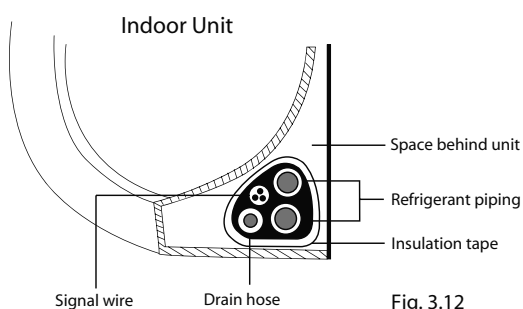
! NOTE ABOUT WIRING

THE WIRING CONNECTION PROCESS MAY DIFFER SLIGHTLY BETWEEN UNITS.

Step 7: Wrap piping and cables

Before passing the piping, drain hose, and the signal cable through the wall hole, you must bundle them together to save space, protect them, and insulate them.

1. Bundle the drain hose, refrigerant pipes, and signal cable according to Fig. 3.12 .



DRAIN HOSE MUST BE ON BOTTOM

Make sure that the drain hose is at the bottom of the bundle. Putting the drain hose at the top of the bundle can cause the drain pan to overflow, which can lead to fire or water damage.

DO NOT INTERTWINE SIGNAL CABLE WITH OTHER WIRES

While bundling these items together, do not intertwine or cross the signal cable with any other wiring.

2. Using adhesive vinyl tape, attach the drain hose to the underside of the refrigerant pipes.
3. Using insulation tape, wrap the signal wire, refrigerant pipes, and drain hose tightly together. Double-check that all items are bundled in accordance with Fig. 3.12 .

DO NOT WRAP ENDS OF PIPING

When wrapping the bundle, keep the ends of the piping unwrapped. You need to access them to test for leaks at the end of the installation process (refer to Electrical Checks and Leak Checks section of this manual).

Step 8: Mount indoor unit

If you installed new connective piping to the outdoor unit, do the following:

1. If you have already passed the refrigerant piping through the hole in the wall, proceed to Step 4.
2. Otherwise, double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
3. Slowly pass the wrapped bundle of refrigerant pipes, drain hose, and signal wire through the hole in the wall.
4. Hook the top of the indoor unit on the upper hook of the mounting plate.
5. Check that unit is hooked firmly on mounting by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
6. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.
7. Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

If refrigerant piping is already embedded in the wall, do the following:

1. Hook the top of the indoor unit on the upper hook of the mounting plate.
2. Use a bracket or wedge to prop up the unit, giving you enough room to connect the refrigerant piping, signal cable, and drain hose. Refer to Fig. 3.13 for an example.

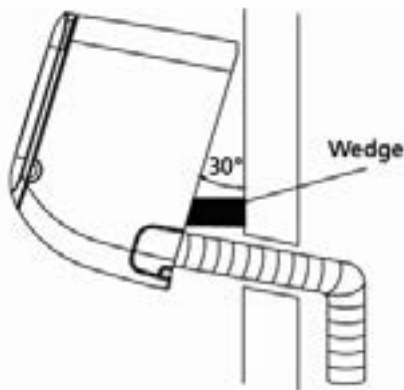


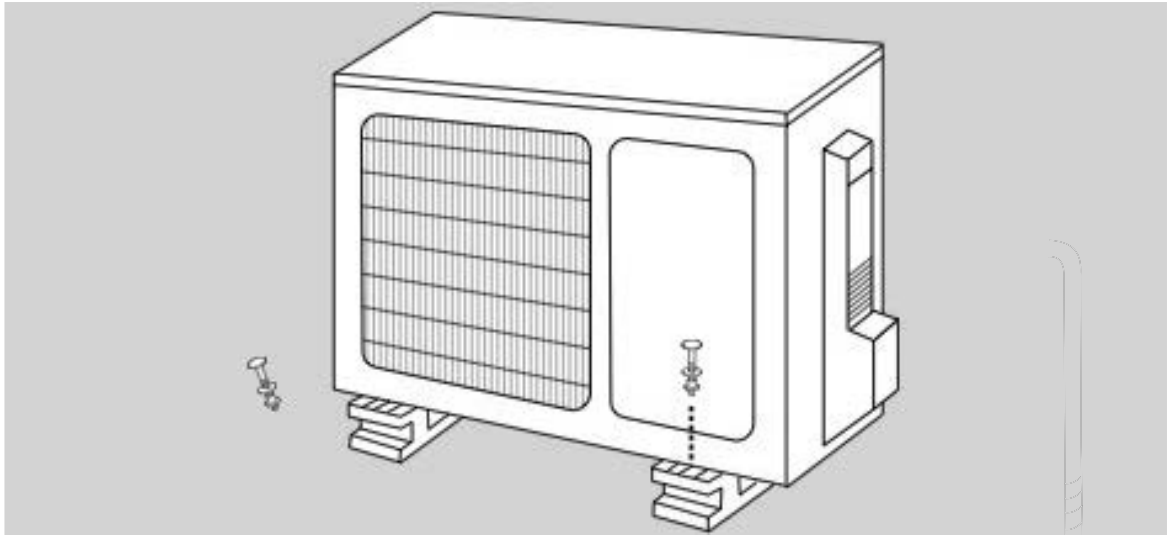
Fig. 3.13

3. Connect drain hose and refrigerant piping (refer to Refrigerant Piping Connection section of this manual for instructions).
4. Keep pipe connection point exposed to perform the leak test (refer to Electrical Checks and Leak Checks section of this manual).
5. After the leak test, wrap the connection point with insulation tape.
6. Remove the bracket or wedge that is propping up the unit.
7. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.

Outdoor Unit Installation

5

Outdoor Unit
Installation



Installation Instructions – Outdoor Unit

Step 1: Select installation location

Before installing the outdoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

- ☑ Meets all spatial requirements shown in Installation Space Requirements (Fig. 4.1)
- ☑ Good air circulation and ventilation
- ☑ Firm and solid—the location can support the unit and will not vibrate
- ☑ Noise from the unit will not disturb others
- ☑ Protected from prolonged periods of direct sunlight or rain

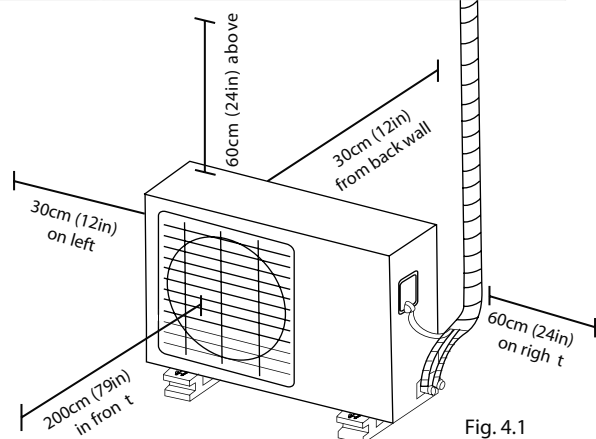


Fig. 4.1

DO NOT install unit in the following locations:

- ⊘ Near an obstacle that will block air inlets and outlets
- ⊘ Near a public street, crowded areas, or where noise from the unit will disturb others
- ⊘ Near animals or plants that will be harmed by hot air discharge
- ⊘ Near any source of combustible gas
- ⊘ In a location that is exposed to large amounts of dust
- ⊘ In a location exposed to excessive amounts of salty air

SPECIAL CONSIDERATIONS FOR EXTREME WEATHER

If the unit is exposed to heavy wind:

Install unit so that air outlet fan is at a 90° angle to the direction of the wind. If needed, build a barrier in front of the unit to protect it from extremely heavy winds.

See Fig. 4.2 and Fig. 4.3 below.

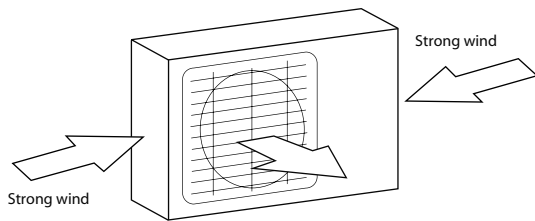


Fig. 4.2

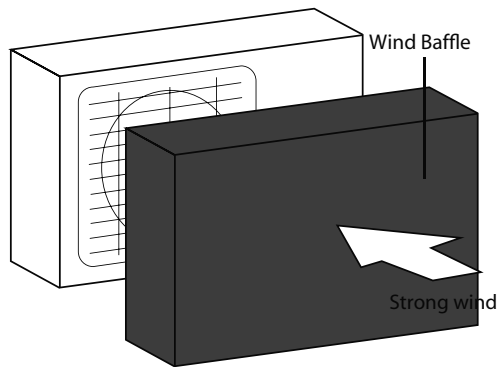


Fig. 4.3

If the unit is frequently exposed to heavy rain or snow:

Build a shelter above the unit to protect it from the rain or snow. Be careful not to obstruct air flow around the unit.

If the unit is frequently exposed to salty air (seaside):

Use outdoor unit that is specially designed to resist corrosion.

Step 2: Install drain joint

Heat pump units require a drain joint. Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit. Note that there are two different types of drain joints depending on the type of outdoor unit.

If the drain joint comes with a rubber seal (see Fig. 4.4 - A), do the following:

1. Fit the rubber seal on the end of the drain joint that will connect to the outdoor unit.
2. Insert the drain joint into the hole in the base pan of the unit.
3. Rotate the drain joint 90° until it clicks in place facing the front of the unit.
4. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

If the drain joint doesn't come with a rubber seal (see Fig. 4.4 - B), do the following:

1. Insert the drain joint into the hole in the base pan of the unit. The drain joint will click in place.
2. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

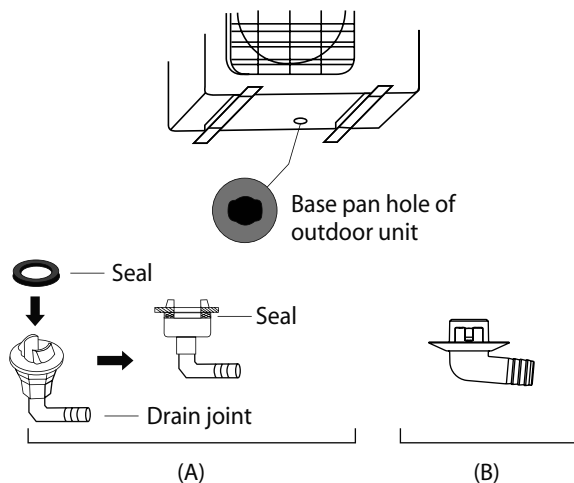


Fig. 4.4

! IN COLD CLIMATES

In cold climates, make sure that the drain hose is as vertical as possible to ensure swift water drainage. If water drains too slowly, it can freeze in the hose and flood the unit.

Step 3: Anchor outdoor unit

The outdoor unit can be anchored to the ground or to a wall-mounted bracket.

UNIT MOUNTING DIMENSIONS

The following is a list of different outdoor unit sizes and the distance between their mounting feet. Prepare the installation base of the unit according to the dimensions below.

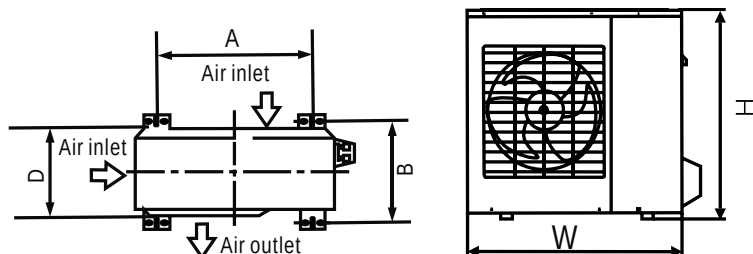


Fig. 4.5

Outdoor Unit Dimensions (mm/in)	Mounting Dimensions	
	Distance A (mm/in)	Distance B (mm/in)
681x434x285 (26.8"x17"x11.2")	460 (18.10")	292 (11.49")
700x550x270 (27.5"x21.6"x10.62")	450 (17.7")	260 (10.24")
780x540x250 (30.7"x21.25"x9.85")	549 (21.6")	276 (10.85")
760x590x285 (29.9"x23.2"x11.2")	530 (20.85")	290 (11.4")
845x700x320 (33.25"x27.5"x12.6")	560 (22")	335 (13.2")
810x558x310 (31.9"x22"x12.2")	549 (21.6")	325 (12.8")
700x550x275 (27.5"x21.6"x10.82")	450 (17.7")	260 (10.24")
770x555x300 (30.3"x21.85"x11.81")	487 (19.2")	298 (11.73")
800x554x333 (31.5"x21.8"x13.1")	514 (20.24")	340 (13.39")
845x702x363 (33.25"x27.63"x14.29")	540 (21.26")	350 (13.8")
900x860x315 (35.4"x33.85"x12.4")	590 (23.2")	333 (13.1")
945x810x395 (37.2"x31.9"x15.55")	640 (25.2")	405 (15.95")
946x810x420 (37.21"x31.9"x16.53")	673 (26.5")	403 (15.87")

If you will install the unit on the ground or on a concrete mounting platform, do the following:

1. Mark the positions for four expansion bolts based on dimensions in the Unit Mounting Dimensions chart.
2. Pre-drill holes for expansion bolts.
3. Clean concrete dust away from holes.
4. Place a nut on the end of each expansion bolt.
5. Hammer expansion bolts into the pre-drilled holes.

6. Remove the nuts from expansion bolts, and place outdoor unit on bolts.
7. Put washer on each expansion bolt, then replace the nuts.
8. Using a wrench, tighten each nut until snug.



WARNING

WHEN DRILLING INTO CONCRETE, EYE PROTECTION IS RECOMMENDED AT ALL TIMES.

If you will install the unit on a wall-mounted bracket , do the following:

CAUTION

Before installing a wall-mounted unit, make sure that the wall is made of solid brick, concrete, or of similarly strong material. The wall must be able to support at least four times the weight of the unit.

1. Mark the position of bracket holes based on dimensions in the Unit Mounting Dimensions chart.
2. Pre-drill the holes for the expansion bolts.
3. Clean dust and debris away from holes.
4. Place a washer and nut on the end of each expansion bolt.
5. Thread expansion bolts through holes in mounting brackets, put mounting brackets in position, and hammer expansion bolts into the wall.
6. Check that the mounting brackets are level.
7. Carefully lift unit and place its mounting feet on brackets.
8. Bolt the unit firmly to the brackets.

TO REDUCE VIBRATIONS OF WALL-MOUNTED UNIT

If allowed, you can install the wall-mounted unit with rubber gaskets to reduce vibrations and noise.

Step 4: Connect signal and power cables

The outside unit's terminal block is protected by an electrical wiring cover on the side of the unit. A comprehensive wiring diagram is printed on the inside of the wiring cover.



BEFORE PERFORMING ELECTRICAL WORK, READ THESE REGULATIONS

1. All wiring must comply with local and national electrical codes, and must be installed by a licensed electrician.
2. All electrical connections must be made according to the Electrical Connection Diagram located on the side panels of the indoor and outdoor units.
3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
4. Power voltage should be within 90-100% of rated voltage. Insufficient power supply can cause electrical shock or fire.
5. If connecting power to fixed wiring, install a surge protector and main power switch with a capacity of 1.5 times the maximum current of the unit.
6. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
7. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
8. Make sure to properly ground the air conditioner.
9. Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
10. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
11. If the unit has an auxiliary electric heater, it must be installed at least 1 meter (40in) away from any combustible materials.



WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

1. Prepare the cable for connection:

USE THE RIGHT CABLE

- Indoor Power Cable (if applicable): H05VV-F or H05V2V2-F
- Outdoor Power Cable: H07RN-F
- Signal Cable: H07RN-F

Minimum Cross-Sectional Area of Power and Signal Cables

North America

Appliance Amps (A)	AWG
10	18
13	16
18	14
25	12
30	10

Other Regions

Rated Current of Appliance (A)	Nominal Cross-Sectional Area (mm ²)
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

- a. Using wire strippers, strip the rubber jacket from both ends of cable to reveal about 15cm (6in) of the wires inside.
- b. Strip the insulation from the ends of the wires.
- c. Using a wire crimper, crimp u-lugs on the ends of the wires.

PAY ATTENTION TO LIVE WIRE

While crimping wires, make sure you clearly distinguish the Live ("L") Wire from other wires.



WARNING

ALL WIRING MUST PERFORMED STRICTLY IN ACCORDANCE WITH THE WIRING DIRGRAM LOCATED INSIDE THE OUTDOOR UNIT S WIRE COVER.

2. Unscrew the electrical wiring cover and remove it.
3. Unscrew the cable clamp below the terminal block and place it to the side.
4. Match the wire colors/labels with the labels on the terminal block, and firmly screw the u-lug of each wire to its corresponding terminal.
5. After checking to make sure every connection is secure, loop the wires around to prevent rain water from flowing into the terminal.
6. Using the cable clamp, fasten the cable to the unit. Screw the cable clamp down tightly.
7. Insulate unused wires with PVC electrical tape. Arrange them so that they do not touch any electrical or metal parts.
8. Replace the wire cover on the side of the unit, and screw it in place.

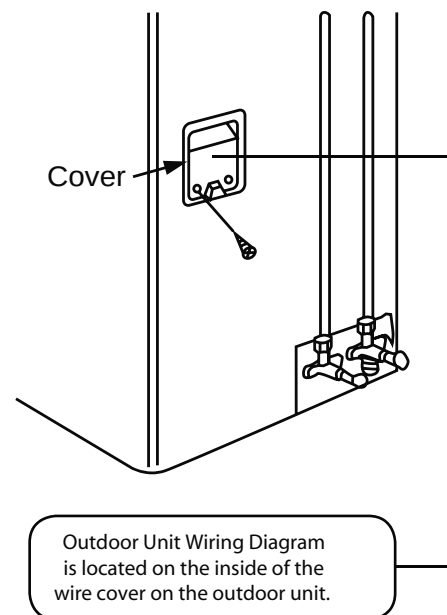
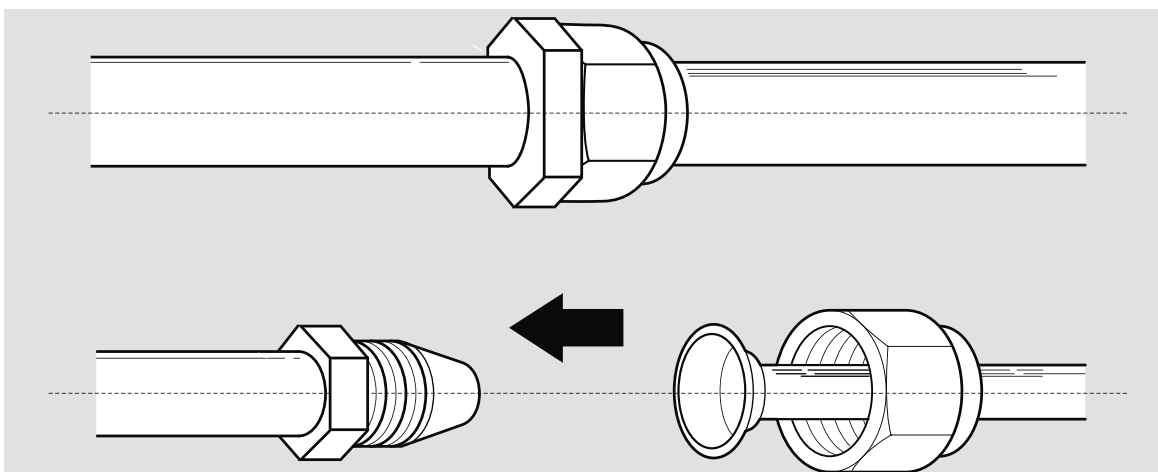


Fig. 4.6

Refrigerant Piping Connection

6



Note on Pipe Length

The length of refrigerant piping will affect the performance and energy efficiency of the unit. Nominal efficiency is tested on units with a pipe length of 5 meters (16.5ft).

Refer to the table below for specifications on the maximum length and drop height of piping.

Maximum Length and Drop Height of Refrigerant Piping per Unit Model

Model	Capacity (BTU/h)	Max. Length (m)	Max. Drop Height (m)
R410A Inverter Split Air Conditioner	< 15,000	25 (82ft)	10 (33ft)
	≥ 15,000 and < 24,000	30 (98.5ft)	20 (66ft)
	≥ 24,000 and < 36,000	50 (164ft)	25 (82ft)
	≥ 36,000 and ≤ 60,000	65 (213ft)	30 (98.5ft)

Connection Instructions – Refrigerant Piping

Step 1: Cut pipes

When preparing refrigerant pipes, take extra care to cut and flare them properly. This will ensure efficient operation and minimize the need for future maintenance.

1. Measure the distance between the indoor and outdoor units.

2. Using a pipe cutter, cut the pipe a little longer than the measured distance.
3. Make sure that the pipe is cut at a perfect 90° angle. Refer to Fig. 5.1 for bad cut examples.

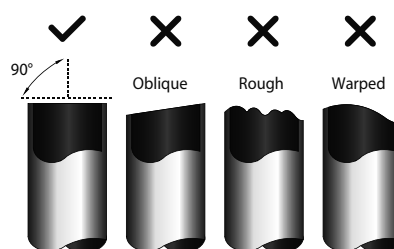


Fig. 5.1

! DO NOT DEFORM PIPE WHILE CUTTING

Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the heating efficiency of the unit.

Step 2: Remove burrs

Burrs can affect the air-tight seal of refrigerant piping connection. They must be completely removed.

1. Hold the pipe at a downward angle to prevent burrs from falling into the pipe.
2. Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.

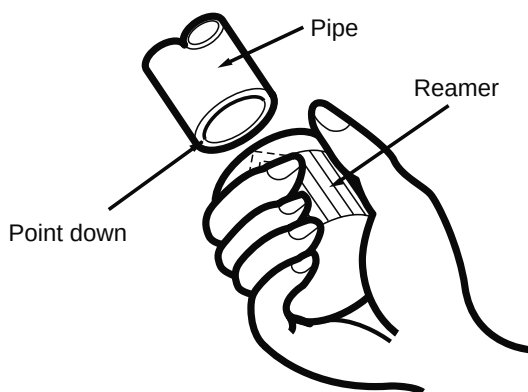


Fig. 5.2

Step 3: Flare pipe ends

Proper flaring is essential to achieve an airtight seal.

1. After removing burrs from cut pipe, seal the ends with PVC tape to prevent foreign materials from entering the pipe.
2. Sheath the pipe with insulating material.
3. Place flare nuts on both ends of pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring. See Fig. 5.3 .

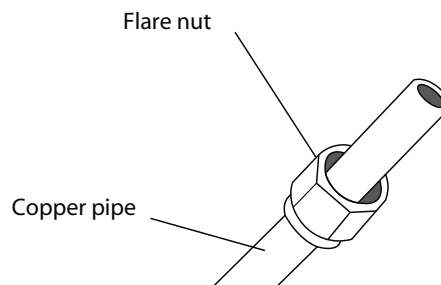


Fig. 5.3

4. Remove PVC tape from ends of pipe when ready to perform flaring work.
5. Clamp flare form on the end of the pipe. The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.

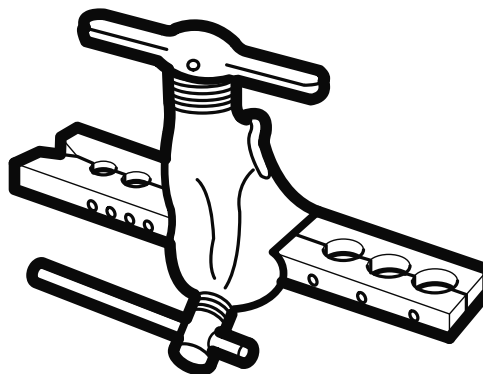


Fig. 5.4

PIPING EXTENSION BEYOND FLARE FORM

Outer Diameter of Pipe (mm)	A (mm)	
	Min.	Max.
Ø 6.35 (Ø 0.25")	0.7 (0.0275")	1.3 (0.05")
Ø 9.52 (Ø 0.375")	1.0 (0.04")	1.6 (0.063")
Ø 12.7 (Ø 0.5")	1.0 (0.04")	1.8 (0.07")
Ø 16 (Ø 0.63")	2.0 (0.078")	2.2 (0.086")

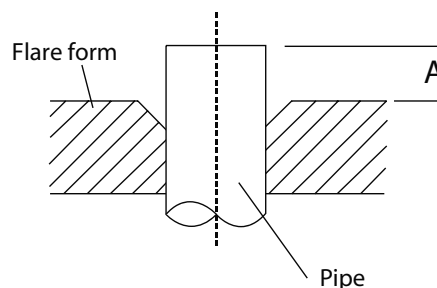


Fig. 5.5

6. Place flaring tool onto the form.
7. Turn the handle of the flaring tool clockwise until the pipe is fully flared.
8. Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring.

Step 4: Connect pipes

When connecting refrigerant pipes, be careful not to use excessive torque or to deform the piping in any way. You should first connect the low-pressure pipe, then the high-pressure pipe.

MINIMUM BEND RADIUS

When bending connective refrigerant piping, the minimum bending radius is 10cm. See Fig 5.6.

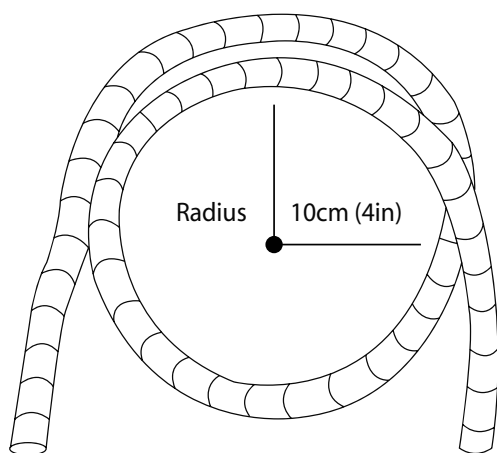


Fig. 5.6

Instructions for Connecting Piping to Indoor Unit

1. Align the center of the two pipes that you will connect. See Fig. 5.7 .

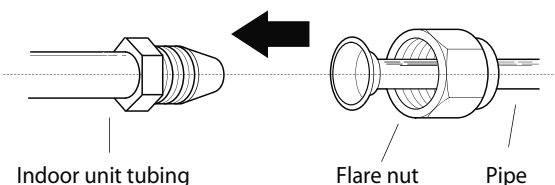


Fig. 5.7

2. Tighten the flare nut as tightly as possible by hand.
3. Using a spanner, grip the nut on the unit tubing.
4. While firmly gripping the nut on the unit tubing, use a torque wrench to tighten the flare nut according to the torque values in the Torque Requirements table below. Loosen the flaring nut slightly, then tighten again.

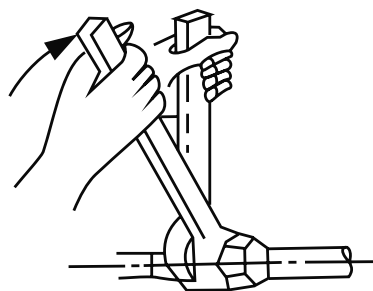


Fig. 5.8

TORQUE REQUIREMENTS

Outer Diameter of Pipe (mm)	Tightening Torque (N·cm)	Add. Tightening Torque (N·m)
Ø 6.35 (Ø 0.25")	1,500 (11lb · ft)	1,600 (11.8lb · ft)
Ø 9.52 (Ø 0.375")	2,500 (18.4lb · ft)	2,600 (19.18lb · ft)
Ø 12.7 (Ø 0.5")	3,500 (25.8lb·ft)	3,600 (26.55lb·ft)
Ø 16 (Ø 0.63")	4,500 (33.19lb·ft)	4,700 (34.67lb·ft)

! DO NOT USE EXCESSIVE TORQUE

Excessive force can break the nut or damage the refrigerant piping. You must not exceed torque requirements shown in the table above.

Instructions for Connecting Piping to Outdoor Unit

1. Unscrew the cover from the packed valve on the side of the outdoor unit. (See Fig. 5.9)

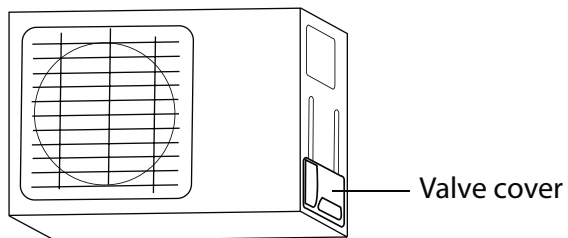


Fig. 5.9

2. Remove protective caps from ends of valves.
3. Align flared pipe end with each valve, and tighten the flare nut as tightly as possible by hand.
4. Using a spanner, grip the body of the valve. Do not grip the nut that seals the service valve. (See Fig. 5.10)

! USE SPANNER TO GRIP MAIN BODY OF VALVE

Torque from tightening the flare nut can snap off other parts of valve.

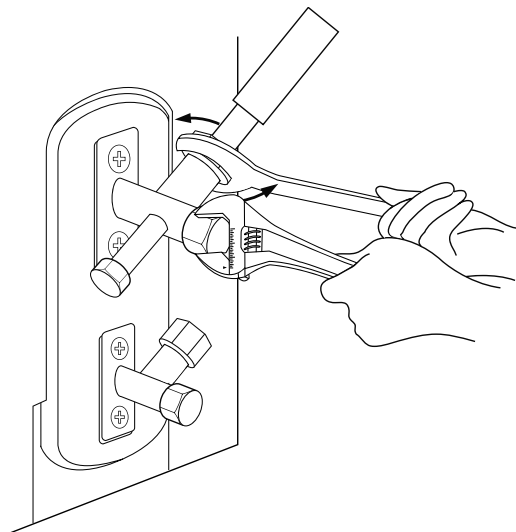
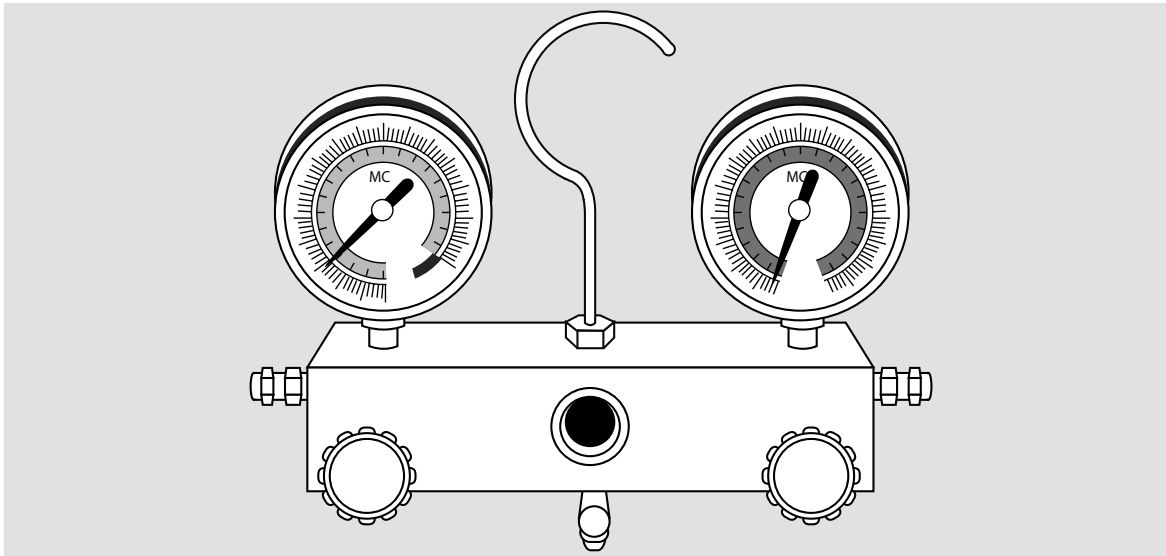


Fig. 5.10

5. While firmly gripping the body of the valve, use a torque wrench to tighten the flare nut according to the correct torque values.
6. Loosen the flaring nut slightly, then tighten again.
7. Repeat Steps 3 to 6 for the remaining pipe.

Air Evacuation

7



Preparations and Precautions

Air and foreign matter in the refrigerant circuit can cause abnormal rises in pressure, which can damage the air conditioner, reduce its efficiency, and cause injury. Use a vacuum pump and manifold gauge to evacuate the refrigerant circuit, removing any non-condensable gas and moisture from the system.

Evacuation should be performed upon initial installation and when unit is relocated.

BEFORE PERFORMING EVACUATION

- ✓ Check to make sure that both high-pressure and low-pressure pipes between the indoor and outdoor units are connected properly in accordance with the Refrigerant Piping Connection section of this manual.
- ✓ Check to make sure all wiring is connected properly.

Evacuation Instructions

Before using the manifold gauge and vacuum pump, read their operation manuals to familiarize yourself with how to use them properly.

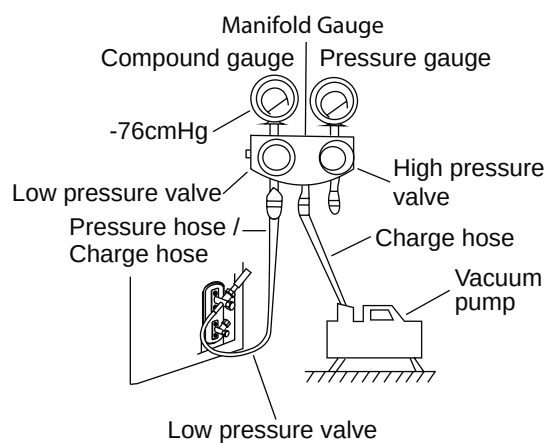


Fig. 6.1

1. Connect the charge hose of the manifold gauge to service port on the outdoor unit's low pressure valve.
2. Connect another charge hose from the manifold gauge to the vacuum pump.

Air Evacuation

3. Open the Low Pressure side of the manifold gauge. Keep the High Pressure side closed.
4. Turn on the vacuum pump to evacuate the system.
5. Run the vacuum for at least 15 minutes, or until the Compound Meter reads -76cmHG (-10⁵Pa).
6. Close the Low Pressure side of the manifold gauge, and turn off the vacuum pump.
7. Wait for 5 minutes, then check that there has been no change in system pressure.
8. If there is a change in system pressure, refer to Gas Leak Check section for information on how to check for leaks. If there is no change in system pressure, unscrew the cap from the packed valve (high pressure valve).
9. Insert hexagonal wrench into the packed valve (high pressure valve) and open the valve by turning the wrench in a 1/4 counterclockwise turn. Listen for gas to exit the system, then close the valve after 5 seconds.
10. Watch the Pressure Gauge for one minute to make sure that there is no change in pressure. The Pressure Gauge should read slightly higher than atmospheric pressure.

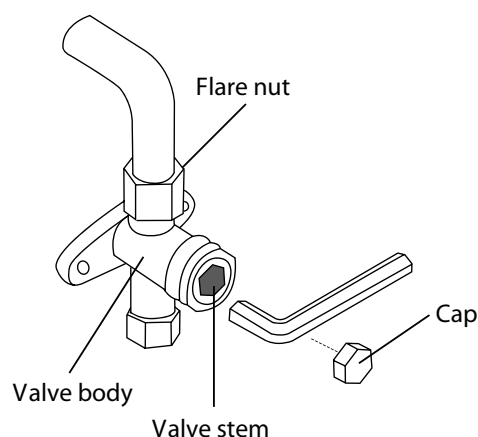


Fig. 6.2

11. Remove the charge hose from the service port.
12. Using hexagonal wrench, fully open both the high pressure and low pressure valves.
13. Tighten valve caps on all three valves (service port, high pressure, low pressure) by hand. You may tighten it further using a torque wrench if needed.

! OPEN VALVE STEMS GENTLY

When opening valve stems, turn the hexagonal wrench until it hits against the stopper. Do not try to force the valve to open further.

Note on Adding Refrigerant

Some systems require additional charging depending on pipe lengths. The standard pipe length varies according to local regulations. For example, in North America, the standard pipe length is 7.5m (25ft). In other areas, the standard pipe length is 5m (16ft). The additional refrigerant to be charged can be calculated using the following formula:

ADDITIONAL REFRIGERANT PER PIPE LENGTH

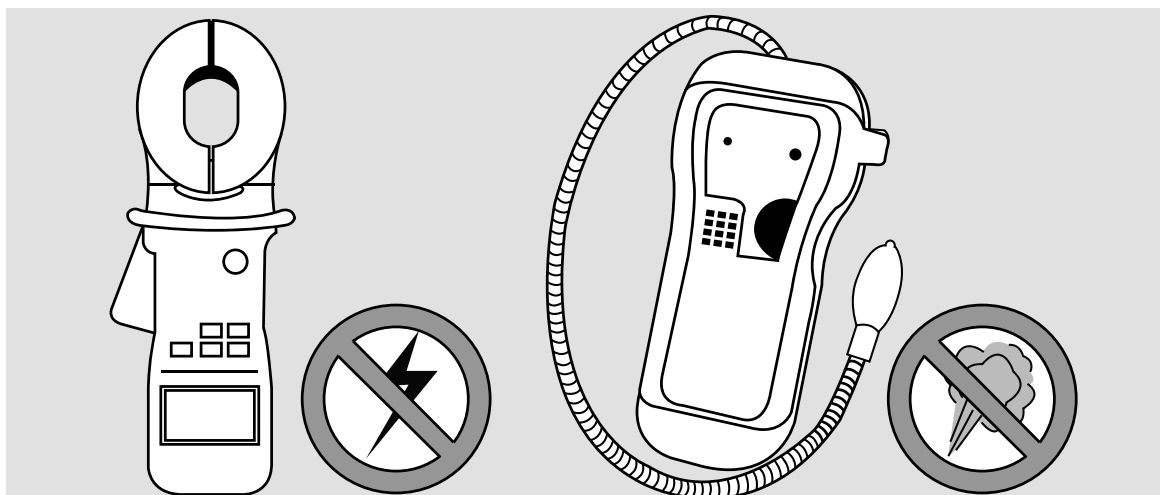
Connective Pipe Length (m)	Air Purging Method	Additional Refrigerant	
≤ Standard pipe length	Vacuum Pump	N/A	
> Standard pipe length	Vacuum Pump	Liquid Side: Ø 6.35 (ø 0.25") R22: (Pipe length – standard length) x 30g/m (Pipe length – standard length) x 0.32oz/ft	Liquid Side: Ø 9.52 (ø 0.375") R22: (Pipe length – standard length) x 60g/m (Pipe length – standard length) x 0.64oz/ft
		Inverter R410A: (Pipe length – standard length) x 15g/m (Pipe length – standard length) x 0.16oz/ft	Inverter R410A: (Pipe length – standard length) x 30g/m (Pipe length – standard length) x 0.32oz/ft
		Fixed-frequency R410A: (Pipe length – standard length) x 20g/m (Pipe length – standard length) x 0.21oz/ft	Fixed-frequency R410A: (Pipe length – standard length) x 40g/m (Pipe length – standard length) x 0.42oz/ft

! CAUTION

DO NOT mix refrigerant types.

Electrical and Gas Leak Checks

8



Electrical Safety Checks

After installation, confirm that all electrical wiring is installed in accordance with local and national regulations, and according to the Installation Manual.

BEFORE TEST RUN

Check Grounding Work

Measure grounding resistance by visual detection and with grounding resistance tester. Grounding resistance must be less than 4.

Note : This may not be required for some locations in the US.

DURING TEST RUN

Check for Electrical Leakage

During the Test Run , use an electroprobe and multimeter to perform a comprehensive electrical leakage test.

If electrical leakage is detected, turn off the unit immediately and call a licensed electrician to find and resolve the cause of the leakage.

Note : This may not be required for some locations in the US.

WARNING – RISK OF ELECTRIC SHOCK

ALL WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES, AND MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

Gas Leak Checks

There are two different methods to check for gas leaks.

Soap and Water Method

Using a soft brush, apply soapy water or liquid detergent to all pipe connection points on the indoor unit and outdoor unit. The presence of bubbles indicates a leak.

Leak Detector Method

If using leak detector, refer to the device's operation manual for proper usage instructions.

AFTER PERFORMING GAS LEAK CHECKS

After confirming that the all pipe connection points DO NOT leak, replace the valve cover on the outside unit.

Test Run

9

Before Test Run

Only perform test run after you have completed the following steps:

- Electrical Safety Checks – Confirm that the unit's electrical system is safe and operating properly
- Gas Leak Checks – Check all flare nut connections and confirm that the system is not leaking
- Confirm that gas and liquid (high and low pressure) valves are fully open

Test Run Instructions

You should perform the Test Run for at least 30 minutes.

1. Connect power to the unit.
2. Press the ON/OFF button on the remote controller to turn it on.
3. Press the MODE button to scroll through the following functions, one at a time:
 - COOL – Select lowest possible temperature
 - HEAT – Select highest possible temperature
4. Let each function run for 5 minutes, and perform the following checks:

List of Checks to Perform	PASS/FAIL	
No electrical leakage		
Unit is properly grounded		
All electrical terminals properly covered		
Indoor and outdoor units are solidly installed		
All pipe connection points do not leak	Outdoor (2):	Indoor (2):
Water drains properly from drain hose		
All piping is properly insulated		
Unit performs COOL function properly		
Unit performs HEAT function properly		
Indoor unit louvers rotate properly		
Indoor unit responds to remote controller		

DOUBLE-CHECK PIPE CONNECTIONS

During operation, the pressure of the refrigerant circuit will increase. This may reveal leaks that were not present during your initial leak check. Take time during the Test Run to double-check that all refrigerant pipe connection points do not have leaks. Refer to Gas Leak Check section for instructions.

5. After the Test Run is successfully complete, and you confirm that all checks points in List of Checks to Perform have PASSED, do the following:
 - a. Using remote control, return unit to normal operating temperature.
 - b. Using insulation tape, wrap the indoor refrigerant pipe connections that you left uncovered during the indoor unit installation process.

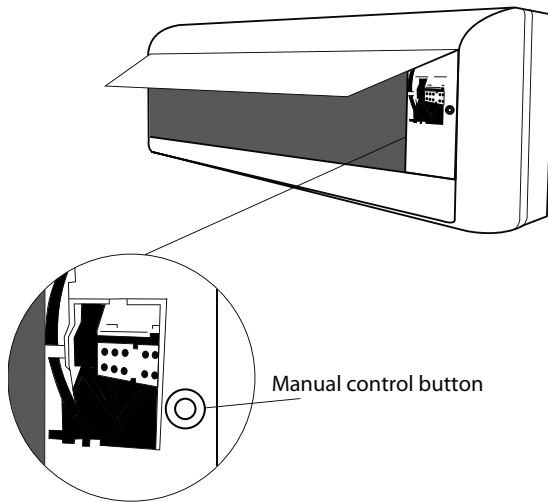


Fig. 8.1

IF AMBIENT TEMPERATURE IS BELOW 17°C (63°F)

You can't use the remote controller to turn on the COOL function when the ambient temperature is below 17°C. In this instance, you can use the MANUAL CONTROL button to test the COOL function.

1. Lift the front panel of the indoor unit, and raise it until it clicks in place.
2. The MANUAL CONTROL button is located on the right-hand side of the unit. Press it 2 times to select the COOL function. See Fig 8.1.
3. Perform Test Run as normal.

European Disposal Guidelines

10

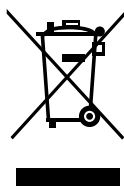
This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. Do not dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.

Special notice

Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.



Πίνακας Περιεχομένων

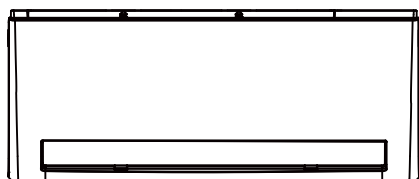
Εγχειρίδιο Εγκατάστασης

0	Οδηγίες Ασφαλείας	4
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1	Εξαρτήματα	6
---	------------------	---

2	Περίληψη Εγκατάστασης- Εσωτερική Μονάδα	8
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3	Μέρη Μονάδας	10
---	--------------------	----

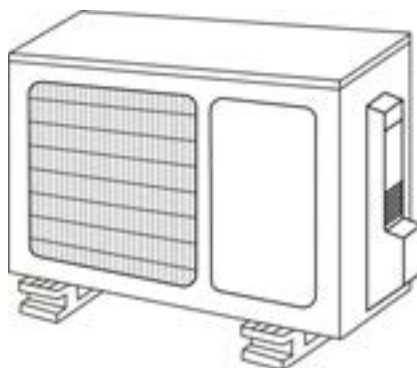


4 Εγκατάσταση Εσωτερικής Μονάδας 11

1. Επιλέξτε τοποθεσία εγκατάστασης 11
2. Προσαρμόστε την επιτοίχια βάση..... 12
3. Ανοίξτε τρύπα στον τοίχο για τη σύνδεση του αγωγού 12
4. Προετοιμάστε τη σωλήνα του ψυκτικού μέσου 14
5. Ενώστε τον αγωγό αποστράγγισης..... 15
6. Ενώστε το καλώδιο σήματος 17
7. Τυλίξτε καλώδια και αγωγούς..... 18
8. Συνδέστε το εσωτερικό καλώδιο ρεύματος..... 18
9. Εκκινήστε την εσωτερική μονάδα 18

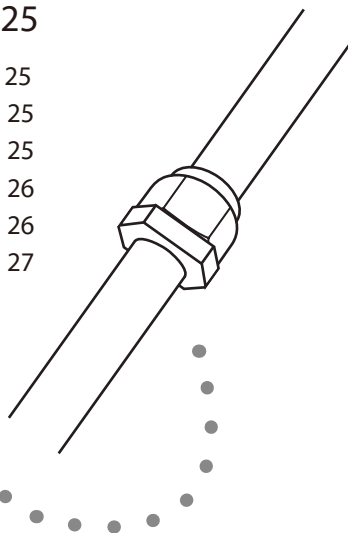
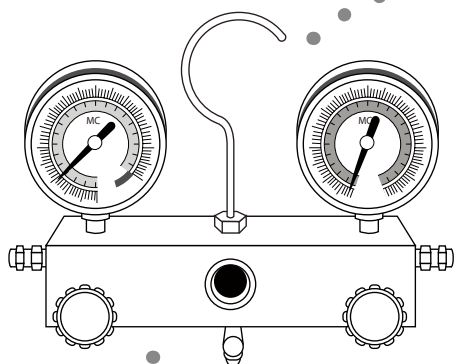
5 Εγκατάσταση Εξωτερικής Μονάδας 20

1. Επιλέξτε τοποθεσία εγκατάστασης 20
2. Εγκαταστήστε τον σύνδεσμο αποστράγγισης 21
3. Στερεώστε την εξωτερική μονάδα 22
4. Συνδέστε τα καλώδια ρεύματος και σήματος 23



6 Σύνδεση Αγωγού Ψυκτικού Μέσου 25

- A. Σημείωση σχετικά με το μήκος αγωγού 25
- B. Οδηγίες Σύνδεσης- Αγωγός Ψυκτικού Μέσου..... 25
- 1. Κόψτε τον Αγωγό 25
- 2. Αφαιρέστε τα γρέζια 26
- 3. Ενώστε τις άκρες των αγωγών 26
- 4. Συνδέστε τους αγωγούς 27



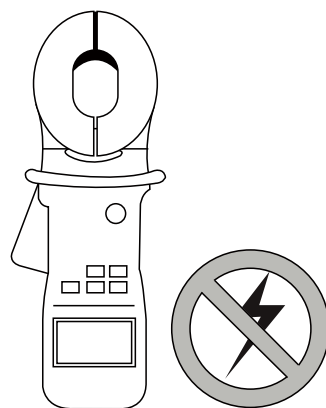
7 Εκκένωση Αέρα 29

- 1. Οδηγίες εκκένωσης 29
- 2. Σημείωση για προσθήκη ψυκτικού μέσου..... 30

8 Έλεγχος για ηλεκτρολογική διαρροή και διαρροή αερίου 31

9 Δοκιμαστική εκκίνηση..... 32

10 Ευρωπαϊκές Οδηγίες Απόρριψης..... 34



Οδηγίες Ασφαλείας

Διαβάστε τις Οδηγίες Ασφαλείας πριν την εγκατάσταση

Εσφαλμένη εγκατάσταση λόγω αγνόησης των οδηγιών μπορεί να προκαλέσει σοβαρές καταστροφές ή τραυματισμούς. Η σοβαρότητα των πιθανών καταστροφών ή τραυματισμών εμφανίζεται ως ΠΡΟΕΙΔΟΠΟΙΗΣΗ ή ΠΡΟΣΟΧΗ.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

Αυτό το σύμβολο δείχνει ότι αγνοώντας τις οδηγίες μπορεί να προκληθεί θάνατος ή σοβαρός τραυματισμός.



ΠΡΟΣΟΧΗ

Αυτό το σύμβολο δείχνει ότι αγνοώντας τις οδηγίες μπορεί να προκληθεί κάποιος τραυματισμός τόσο στον ίδιο τον άνθρωπο όσο και καταστροφές στη συσκευή ή σε άλλη ιδιοκτησία.



Αυτό το σύμβολο δείχνει ότι δεν πρέπει ποτέ να πραγματοποιείτε την λειτουργία που δείχνει.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

- ⊗ ΜΗΝ παραποιείτε το μήκος του καλωδίου ρεύματος και μην χρησιμοποιείτε πολύπριζα. ΜΗΝ τοποθετείτε και άλλες συσκευές στην ίδια πρίζα. Λανθασμένη και μη αποτελεσματική παροχή ρεύματος μπορεί να προκαλέσει φωτιά ή ηλεκτροπληξία.
 - ⊗ Όταν συνδέετε με τον αγωγό ψυκτικού μέσου, μην αφήνετε ουσίες ή αέρια πέραν όσων ενδείκνυνται να εισέλθουν στη μονάδα. Η παρουσία άλλων αερίων ή ουσιών θα μειώσει την ισχύ και μπορεί να προκαλέσει ασυνήθιστη υψηλή πίεση στον ψυκτικό κύκλο. Αυτό μπορεί να φέρει έκρηξη και τραυματισμό.
 - ⊗ ΜΗΝ αφήνετε τα παιδιά να παίξουν με το κλιματιστικό. Τα παιδιά πρέπει να επιβλέπονται αναφορικά με τη μονάδα κάθε στιγμή.
1. Η εγκατάσταση πρέπει να πραγματοποιείται από εξουσιοδοτημένο προμηθευτή ή ειδικό. Αναποτελεσματική εγκατάσταση μπορεί να προκαλέσει διαρροές νερού, ηλεκτροπληξία ή φωτιά.
 2. Η εγκατάσταση πρέπει να πραγματοποιείται σύμφωνα με τις οδηγίες εγκατάστασης. Εσφαλμένη εγκατάσταση μπορεί να προκαλέσει διαρροή νερού, ηλεκτροπληξία ή φωτιά. (Στην Βόρεια Αμερική, η εγκατάσταση πρέπει να πραγματοποιείται σύμφωνα με τις προδιαγραφές της NEC και CEC από εξουσιοδοτημένο προσωπικό και μόνο).
 3. Επικοινωνήστε με εξουσιοδοτημένο κέντρο σέρβις για επισκευή ή συντήρηση της μονάδας.
 4. Χρησιμοποιήστε μόνο τα συμπεριλαμβανόμενα εξαρτήματα, μέρη και ειδικά στοιχεία για εγκατάσταση. Η χρήση άλλων εξαρτημάτων μπορεί να προκαλέσει διαρροή νερού, ηλεκτροπληξία, φωτιά καθώς και καταστροφή της μονάδας.
 5. Εγκαταστήστε τη μονάδα σε τοποθεσία που μπορεί να υποστηρίξει το βάρος της μονάδας καθώς αν δεν γίνει η εγκατάσταση σωστά, η μονάδα μπορεί να πέσει και να προκαλέσει σοβαρούς τραυματισμούς και καταστροφές.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

6. Για ηλεκτρολογικές διεργασίες, ακολουθήστε τις τοπικές και εθνικές ηλεκτρολογικές προδιαγραφές, νόμους και εγχειρίδια εγκατάστασης. Θα πρέπει να χρησιμοποιείτε ανεξάρτητο κύκλωμα τροφοδοσίας με ρεύμα και ξεχωριστή πρίζα. Μην συνδέετε άλλες συσκευές στην ίδια πρίζα. Αναποτελεσματική παροχή ρεύματος ή σφάλματα στην ηλεκτρολογική σύνδεση μπορεί να προκαλέσουν φωτιά καθώς και ηλεκτροπληξία.

7. Για ηλεκτρολογικές διεργασίες, χρησιμοποιήστε ειδικά καλώδια. Ενώστε τα καλώδια σφιχτά και σφίξτε τα με απόλυτη ασφάλεια ώστε να εμποδίσετε εξωτερικούς παράγοντες να προκαλέσουν καταστροφές. Εσφαλμένη ηλεκτρολογική σύνδεση μπορεί να προκαλέσει υπερθέρμανση, φωτιά και ηλεκτροπληξία.

8. Όλα τα καλώδια θα πρέπει να είναι σωστά τοποθετημένα ώστε να διασφαλίζεται το σωστό κλείσιμο του πίνακα ελέγχου. Αν δεν έχει γίνει σωστό κλείσιμο του πίνακα ελέγχου, μπορεί να οδηγήσει σε διάβρωση, υπερθέρμανση, φωτιά και ηλεκτροπληξία.

9. Σε συγκεκριμένα περιβάλλοντα λειτουργίας, όπως κουζίνες, δωμάτια σερβιρίσματος κλπ, συνιστάται η χρήση ειδικών κλιματιστικών μονάδων.

ΠΡΟΣΟΧΗ

- ⓘ Για μονάδες που έχουν βοηθητικά θερμαντικά σώματα, ΜΗΝ εγκαθιστάτε τη μονάδα σε λιγότερο από 1 μέτρο (3 πόδια) απόσταση από εύφλεκτα υλικά.
- ⓘ ΜΗΝ εγκαθιστάτε τη μονάδα σε περιοχή που μπορεί να υπάρξει διαρροή εύφλεκτου αερίου. Αν μαζευτεί γύρω από τη μονάδα εύφλεκτο υλικό, μπορεί να προκληθεί φωτιά.
- ⓘ ΜΗΝ λειτουργείτε τη μονάδα σε υγρό περιβάλλον όπως μπάνιο ή δωμάτιο μπουγάδας. Η υπερβολική έκθεση σε νερό μπορεί να προκαλέσει βραχυκύκλωμα στα ηλεκτρολογικά μέρη.
 1. Το προϊόν πρέπει να είναι σωστά εδραιωμένο τη στιγμή της εγκατάστασης αλλιώς μπορεί να προκληθεί ηλεκτροπληξία.
 2. Εγκαταστήστε αγωγό αποστράγγισης σύμφωνα με τις οδηγίες στο εγχειρίδιο. Εσφαλμένη αποστράγγιση μπορεί να προκαλέσει καταστροφές στο σπίτι και την ιδιοκτησία σας.

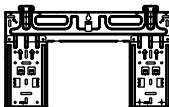
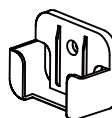
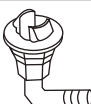
Σημείωση σχετικά με Φθοριούχα Αέρια

1. Το κλιματιστικό εμπεριέχει φθοριούχα αέρια. Για συγκεκριμένες πληροφορίες σχετικά με τον τύπο του αερίου και την ποσότητα, παρακαλείσθε να ανατρέξετε στο σχετικό ταμπελάκι της μονάδας.
2. Η εγκατάσταση, η συντήρηση και η επισκευή του πρέπει να πραγματοποιούνται από εξειδικευμένο τεχνικό.
3. Η απεγκατάσταση του προϊόντος και η ανακύκλωσή του πρέπει να πραγματοποιούνται από εξειδικευμένο τεχνικό.
4. Αν υπάρχει εγκατεστημένο σύστημα ελέγχου διαρροών, θα πρέπει να ελέγχεται κάθε 12 μήνες για διαρροή.
5. Όταν ελεγχθεί η μονάδα για διαρροή, συνιστάται η καταγραφή του ιστορικού ελέγχων.

Εξαρτήματα

1

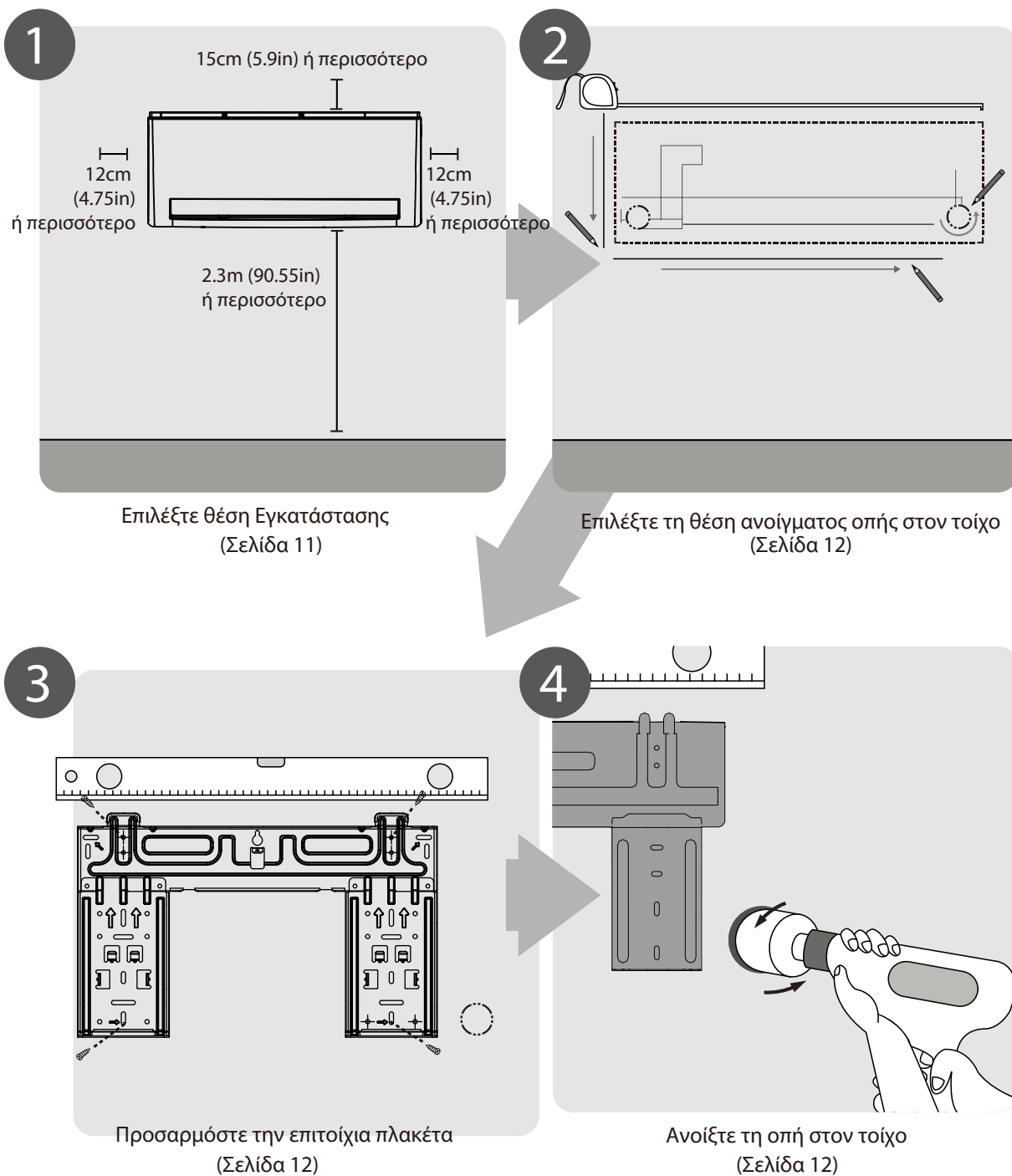
Η κλιματιστική μονάδα παρέχεται με τα ακόλουθα εξαρτήματα. Χρησιμοποιήστε όλα τα μέρη εγκατάστασης και τα εξαρτήματα ώστε να εγκαταστήσετε το κλιματιστικό. Εσφαλμένη εγκατάσταση μπορεί να έχει ως αποτέλεσμα διαροή νερού, ηλεκτροπληξία και φωτιά, ή καταστροφές στο προϊόν.

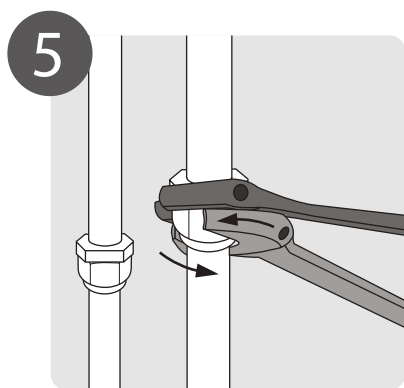
Όνομα	Σχήμα	Ποσότητα	
Επιτοίχια Βάση		1	
Ούπα		5	
Αυτοδιάτρητη Βίδα ST3.9 X 25		5	
Ασύρματο Τηλεχειριστήριο		1	
Αυτοδιάτρητη Βίδα για τη βάση του τηλεχειριστήριου ST2.9 x 10		2	Προαιρετικά Μέρη
Βάση ασύρματου τηλεχειριστηρίου		1	
Μπαταρίες ξηρού τύπου AAA.LR03		2	
Φίλτρο Αέρα		1	
Πώμα		1 (για μοντέλα ψύξης & θέρμανσης μόνο)	
Σύνδεσμος αποστράγγισης			

Όνομα	Σχήμα		Ποσότητα
Εγχειρίδιο Χρήστη			1
Εγχειρίδιο Εγκατάστασης			1
Εικονογράφιση Τηλεχειριστηρίου			1
Ένωση συνδεδεμένων Αγωγών	Γραμμή Ρευστού	Φ 6.35 (1/4 in)	Εξαρτήματα που πρέπει να αγοράσετε. Συμβουλευτείτε τον προμηθευτή σας για το μέγεθος των αγωγών.
		Φ 9.52 (3/8 in)	
	Γραμμή Αερίου	Φ 9.52 (3/8 in)	
		Φ 12.7 (1/2 in)	
		Φ 16 (5/8 in)	

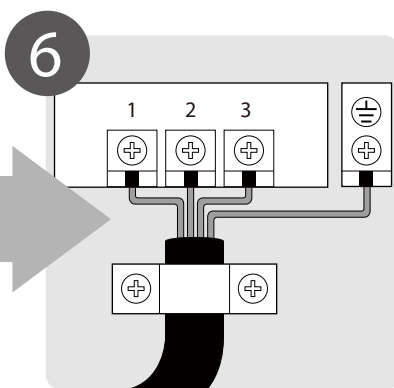
Περλήψη Εγκατάστασης - Εσωτερική Μονάδα

2

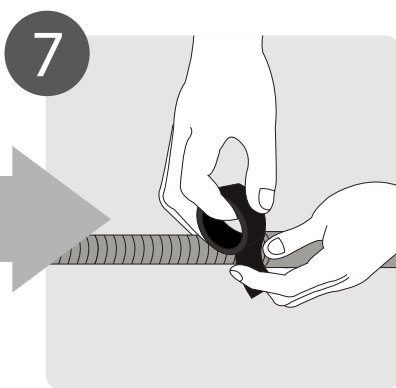




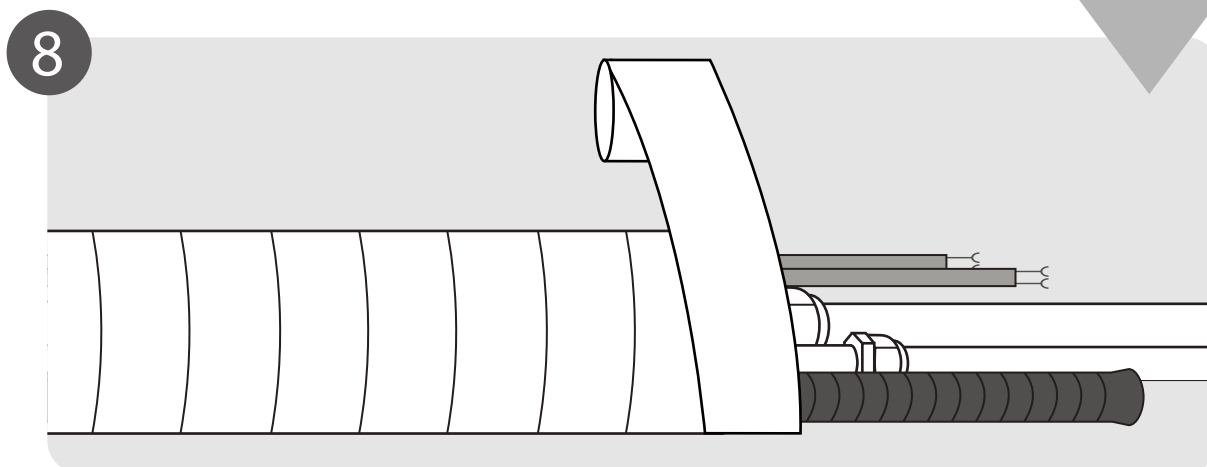
5 Συνδέστε τους αγωγούς
(Σελίδα 25)



6 Συνδέστε τις καλωδιώσεις
(Σελίδα 17)



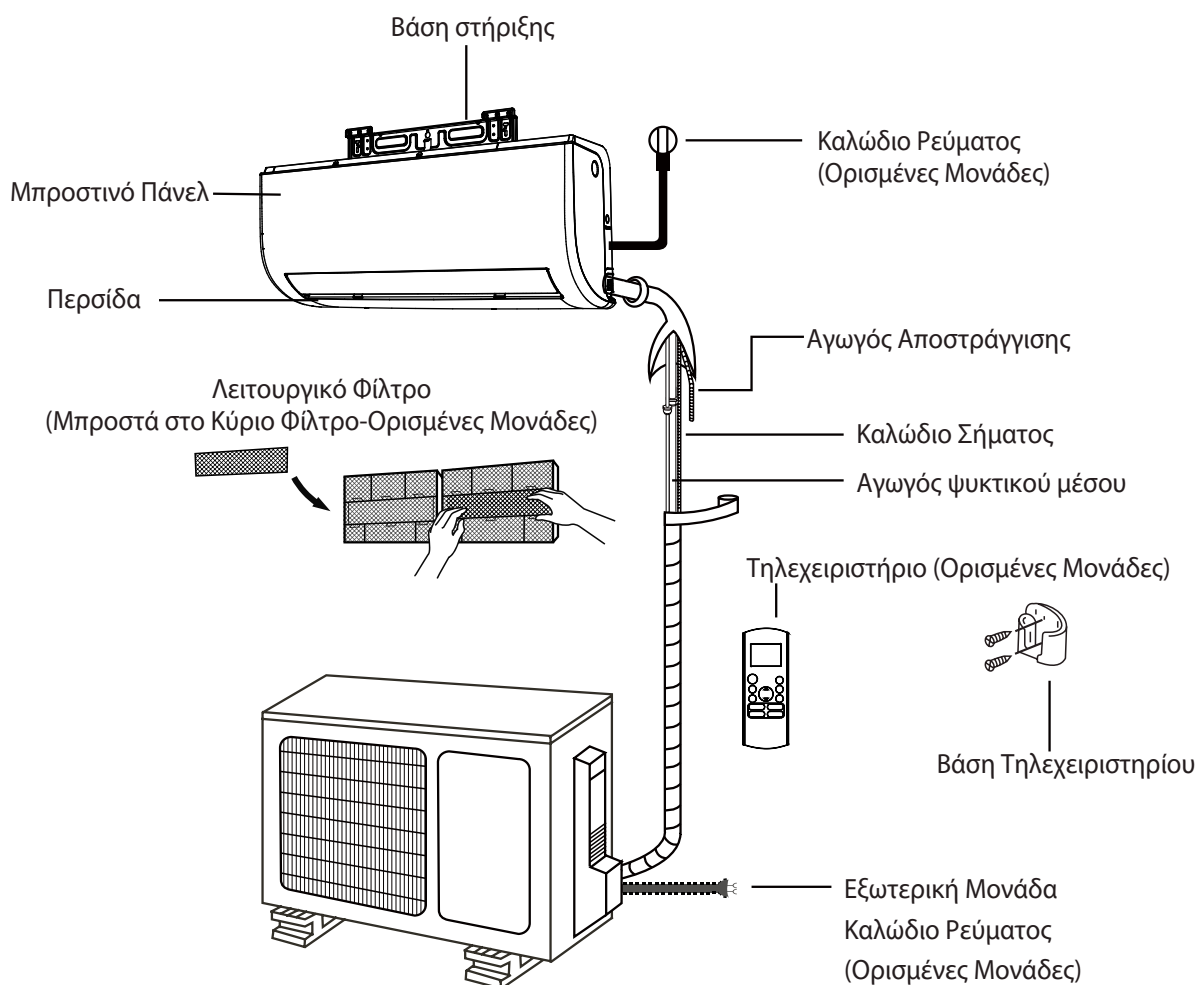
7 Προετοιμάστε τον αγωγό αποστράγγισης
(Σελίδα 14)



8 Τυλίξτε Αγωγούς και Καλωδιώσεις
(Σελίδα 18)



9 Τοποθετήστε την Εσωτερική Μονάδα
(Σελίδα 18)



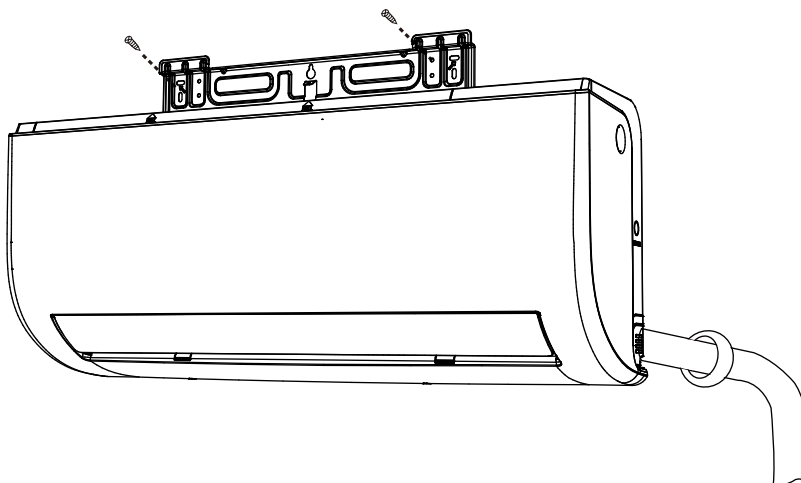
Σχ.2.1

ΣΗΜΕΙΩΣΗ ΕΙΚΟΝΟΓΡΑΦΗΜΕΝΩΝ

Οι εικονογραφήσεις σε αυτό το εγχειρίδιο είναι για επεξηγηματικούς σκοπούς. Το πραγματικό σχήμα της εσωτερικής σας μονάδας μπορεί να διαφέρει ελαφρώς. Το πραγματικό σχήμα θα επικρατήσει.

Εγκατάσταση Εσωτερικής Μονάδας

4



Οδηγίες Εγκατάστασης- Εσωτερική Μονάδα

ΣΗΜΑΝΤΙΚΟ ΣΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ

Πριν την εγκατάσταση της εσωτερικής μονάδας, ανατρέξτε στο ταμπελάκι του κουτιού του προϊόντος για να διασφαλίσετε ότι ο αριθμός του μοντέλου της εσωτερικής μονάδας ταιριάζει με τον αριθμό του μοντέλου της εξωτερικής μονάδας.

Βήμα 1: Επιλέξτε τοποθεσία εγκατάστασης.

Πριν εγκαταστήσετε την εσωτερική μονάδα, θα πρέπει να επιλέξετε κατάλληλη τοποθεσία. Οι ακόλουθες είναι προϋποθέσεις που θα σας βοηθήσουν να βρείτε κατάλληλη τοποθεσία.

Για σωστή τοποθεσία εγκατάστασης ακολουθήστε τις παρακάτω οδηγίες:

- ☒ Καλή ανακυκλοφορία αέρα
- ☒ Επαρκής αποστράγγιση
- ☒ Ο θόρυβος από τη μονάδα δεν θα ενοχλεί τους παρευρισκόμενους
- ☒ Σταθερή και στιβαρή τοποθεσία για αποφυγή κραδασμών
- ☒ Στιβαρό αρκετά να υποστηρίξει το βάρος της μονάδας
- ☒ Τοποθεσία τουλάχιστον 1 μέτρο μακριά από ηλεκτρικές συσκευές (πχ. Τηλεόραση, Ραδιόφωνο, Υπολογιστή)

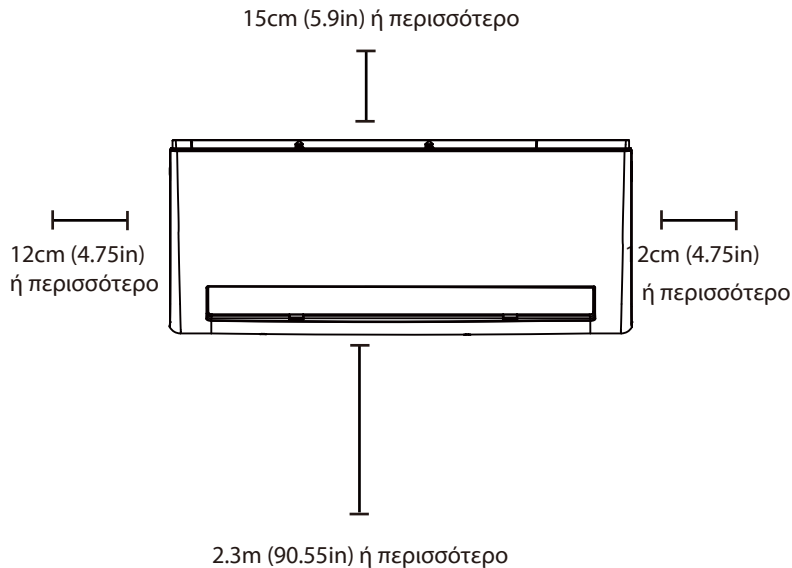
ΜΗΝ εγκαθιστάτε τη μονάδα στις ακόλουθες τοποθεσίες:

- ☐ Δίπλα σε πηγές θερμότητας ή εύφλεκτων αερίων
- ☐ Δίπλα σε εύφλεκτα αντικείμενα όπως κουρτίνες ή ρούχα
- ☐ Δίπλα σε εμπόδια που μπορεί να μπλοκάρουν την ανακυκλοφορία του αέρα
- ☐ Δίπλα από το άνοιγμα πόρτας
- ☐ Σε περιοχές απευθείας έκθεσης στην ηλιακή ακτινοβολία

ΣΗΜΕΙΩΣΗ ΓΙΑ ΤΗΝ ΟΠΗ ΤΟΙΧΟΥ:

Αν δεν υπάρχει σταθερός αγωγός ψυκτικού μέσου: Όταν θα ψάχνετε για τοποθεσία εγκατάστασης, να γνωρίζετε ότι πρέπει να αφήσετε αρκετό χώρο για την οπή στον τοίχο (Δείτε το Βήμα "Ανοίξτε την οπή στον τοίχο για τον αγωγό σύνδεσης") για το καλώδιο σήματος και τον αγωγό ψυκτικού μέσου που ενώνει την εσωτερική με την εξωτερική μονάδα. Η προεπιλεγμένη τοποθέτηση για όλες τις σωληνώσεις είναι η δεξιά πλευρά της εσωτερικής μονάδας (όπως βλέπετε τη μονάδα). Παρόλα αυτά, η μονάδα μπορεί να προσαρμόσει αγωγό και στις δυο πλευρές, αριστερά και δεξιά.

Ανατρέξτε στο ακόλουθο διάγραμμα ώστε να επιβεβαιώσετε την κατάλληλη απόσταση από τους τοίχους και την οροφή:



Σχ. 3.1

Βήμα 2: Προσαρμόστε την επιτοίχια πλακέτα στον τοίχο

Η επιτοίχια πλακέτα είναι η συσκευή στην οποία τοποθετείτε την εσωτερική μονάδα.

1. Αφαιρέστε τη βίδα που προσαρμόζεται η επιτοίχια πλακέτα στο πίσω μέρος της εσωτερικής μονάδας.
2. Τοποθετήστε την επιτοίχια μονάδα στον τοίχο σε τοποθεσία που συμφωνεί με τις προϋποθέσεις του βήματος "Επιλέξτε Τοποθεσία Εγκατάστασης". (Δείτε Διαστάσεις Επιτοίχιας Πλακέτας για περισσότερες πληροφορίες σχετικά με τα μεγέθη επιτοίχιας πλακέτας.)
3. Ανοίξτε οπές για τις επιτοίχιες βίδες σε μέρη που:
 - έχουν καρφία που υποστηρίζουν το βάρος της μονάδας
 - ανταποκρίνονται ορθά στις προδιαγραφές βιδών της επιτοίχιας πλακέτας
4. Επιβεβαιώστε το ταίριασμα στις βίδες μεταξύ επιτοίχιας πλακέτας και τοίχου
5. Βεβαιωθείτε ότι η επιτοίχια πλακέτα είναι επίπεδη στον τοίχο.

Βήμα 3: Διάνοιξη οπής στον τοίχο για τον αγωγό σύνδεσης

Θα πρέπει να ανοίξετε οπή στον τοίχο για τη σωλήνα ψυκτικού μέσου, τη σωλήνα αποστράγγισης και το καλώδιο σήματος που θα ενώνει την εσωτερική με την εξωτερική μονάδα.

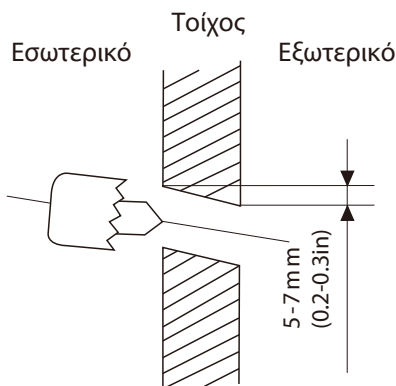
1. Εξακριβώστε τη τοποθεσία της οπής στον τοίχο βάση της θέσης της επιτοίχιας πλακέτας. Ανατρέξτε στις Διαστάσεις Επιτοίχιας Πλακέτας στο επόμενο βήμα ώστε να εξακριβώσετε την ιδανική θέση. Η οπή στον τοίχο θα πρέπει να έχει διάμετρο 65mm (2.5in) το λιγότερο και να είναι ελαφρώς υπό γωνία ώστε να πραγματοποιείται αποστράγγιση.
2. Χρησιμοποιώντας τρυπάνι Φ65mm, ανοίξτε οπή στον τοίχο. Βεβαιωθείτε ότι η οπή θα ανοιχτεί υπό κάθετη γωνία, έτσι ώστε το εξωτερικό τελείωμα της τρύπας να είναι χαμηλότερο από το εσωτερικό τελείωμα κατά 5mm έως 7mm (0.2- 0.275in). Αυτό θα επιβεβαιώσει την απαραίτητη αποστράγγιση νερού. (Δείτε Σχ.4.2)
3. Τοποθετήστε το προστατευτικό κάλυμμα πάνω από τη τρύπα. Αυτό προστατεύει τις γωνίες της οπής και θα βοηθήσει στη κάλυψή της όταν τελειώσετε τη διαδικασία εγκατάστασης.

ΣΗΜΕΙΩΣΗ ΓΙΑ ΤΟΙΧΟΥΣ ΜΕ ΤΟΥΒΛΑ Η ΣΚΥΡΟΔΕΜΑ:

Αν ο τοίχος είναι κατασκευασμένος από τούβλο, σκυρόδεμα ή παρόμοια υλικά, ανοίξτε οπές διαμέτρου (0.2in) στον τοίχο και τοποθετήστε ούπες στερεώματος που παρέχονται. Έπειτα εφαρμόστε την επιτοίχια πλακέτα στον τοίχο βιδώνοντας στα κλιπ στερέωσης.

! ΠΡΟΣΟΧΗ

Όταν ανοίγετε την οπή στον τοίχο, βεβαιωθείτε ότι αποφεύγετε καλώδια, υδραυλικούς αγωγούς ή άλλα ευαίσθητα εξαρτήματα.



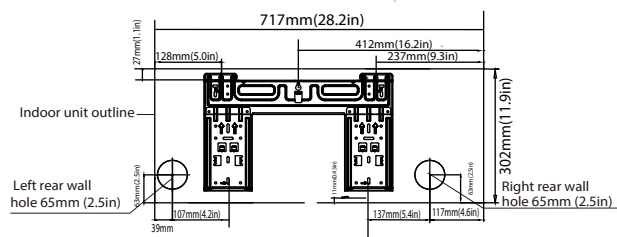
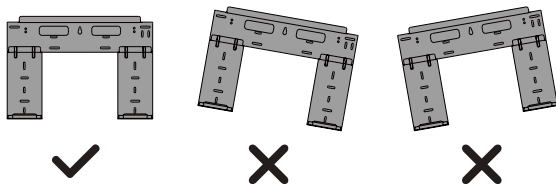
Εικ. 3.2

ΔΙΑΣΤΑΣΕΙΣ ΒΑΣΗΣ ΣΤΗΡΙΞΗΣ

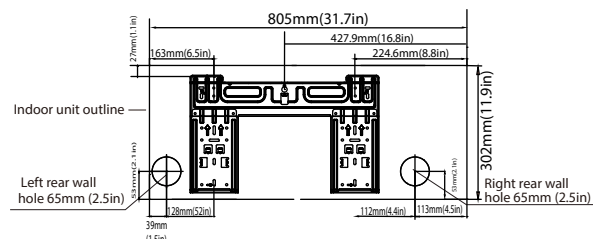
Διαφορετικά μοντέλα έχουν διαφορετικές βάσεις στήριξης. Με σκοπό να επιβεβαιώσετε ότι έχετε αρκετό χώρο στο δωμάτιο για να τοποθετήσετε την εσωτερική σας μονάδα, το διάγραμμα στα δεξιά εμφανίζει διαφορετικούς τύπους επιτοίχιων μονάδων σύμφωνα με τις ακόλουθες διαστάσεις:

- Πλάτος βάσης στήριξης
- Ύψος βάσης στήριξης
- Πλάτος εσωτερικής μονάδας αναφορικά με την βάση στήριξης
- Ύψος εσωτερικής μονάδας αναφορικά με την βάση στήριξης
- Προτεινόμενη θέση της τρύπας τοίχου (για τη δεξιά και αριστερή βάση στήριξης)
- Σχετικές αποστάσεις μεταξύ βιδών

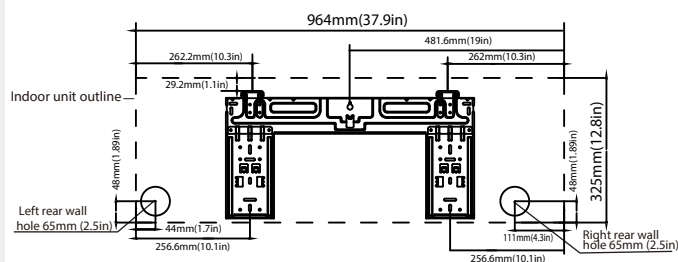
Σωστός προσανατολισμός Επιτοίχιας Μονάδας



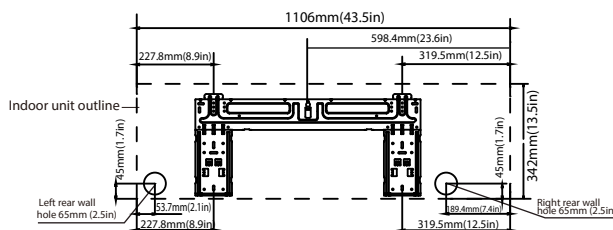
Μοντέλο Α



Μοντέλο Β



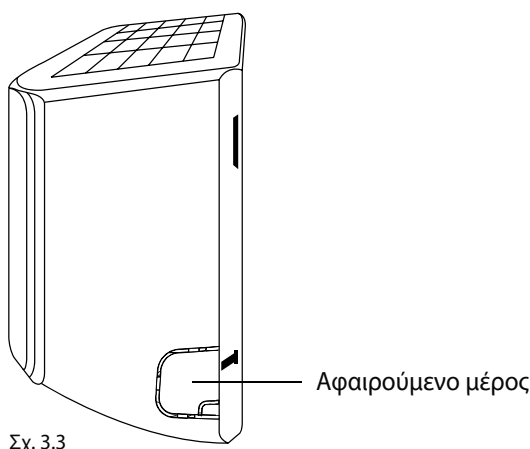
Μοντέλο C



Μοντέλο D

Βήμα 4: Προετοιμάστε τον αγωγό ψυκτικού μέσου
Ο αγωγός ψυκτικού μέσου είναι εντός της προστατευμένης θήκης στο πίσω μέρος της μονάδας. Πρέπει να προετοιμάσετε τη σωλήνωση πριν τη περάσετε μέσα από τον τοίχο. Ανατρέξτε στην ενότητα **Σύνδεση Αγωγού Ψυκτικού Μέσου** αυτού του εγχειριδίου για περισσότερες λεπτομέρειες σχετικά με το άνοιγμα του αγωγού, την περιστροφή του, τις τεχνικές προδιαγραφές κλπ.

1. Βασιζόμενοι στη θέση της οπής του τοίχου σχετικά με την επιτοίχια πλακέτα, επιλέξτε τη πλευρά από την οποία θα βγαίνει ο αγωγός από τη μονάδα.
2. Αν η οπή είναι πίσω από τη μονάδα, κρατήστε εκεί το αφαιρούμενο πάνελ. Αν η οπή είναι από τη πλευρά της εσωτερικής μονάδας, αφαιρέστε το πλαστικό αφαιρούμενο πάνελ από αυτή τη πλευρά της μονάδας. (Δείτε Σχ. 3.3). Αυτό θα δημιουργήσει ένα κενό μέσω του οποίου μπορεί να βγαίνει ο αγωγός από τη μονάδα. Χρησιμοποιήστε ειδική πένσα αν το πλαστικό πάνελ είναι πολύ δύσκολο να αφαιρεθεί με το χέρι.



3. Χρησιμοποιήστε ψαλίδια να κόψετε το μήκος της μονωτικής ταινίας αφήνοντας περίπου 15cm (6in) από τον αγωγό ψυκτικού μέσου.

Αυτό εξυπηρετεί 2 σκοπούς:

- Να διευκολύνει τη διαδικασία σύνδεσης του αγωγού Ψυκτικού Μέσου.
- Να διευκολύνει τον έλεγχο για διαρροή και τον έλεγχο βαθουλώματος.

4. Αν έχει περαστεί ήδη στον τοίχο ο αγωγός σύνδεσης, συνεχίστε απευθείας στο Βήμα **Συνδέστε τον Αγωγό Αποστράγγισης**. Αν δεν υπάρχει, συνδέστε τον αγωγό ψυκτικού μέσου της εσωτερικής μονάδας με τον αγωγό σύνδεσης της εσωτερικής με την εξωτερική μονάδα. Ανατρέξτε στην ενότητα **Αγωγός σύνδεσης Ψυκτικού Μέσου** αυτού του εγχειριδίου για περισσότερες πληροφορίες.

5. Βασιζόμενοι στη θέση της οπής του τοίχου σχετικά με την επιτοίχια πλακέτα, επιλέξτε την απαραίτητη γωνία για την σωλήνωση.

6. Τυλίξτε τον αγωγό ψυκτικού μέσου στη βάση στήριξης.

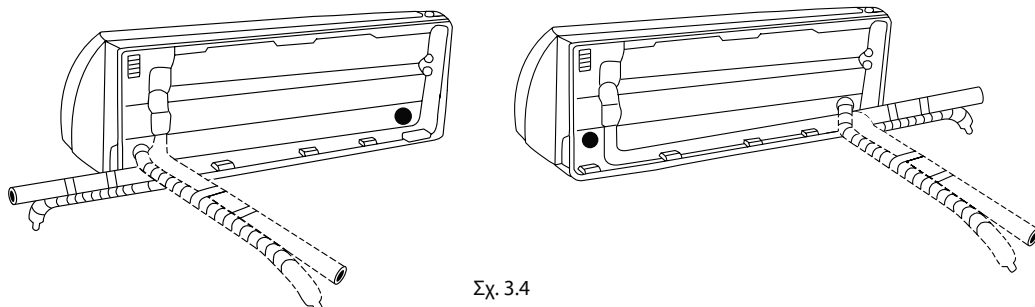
7. Αργά και με ίση πίεση κάμψτε τη σωλήνα προς την οπή. ΜΗΝ τσακίσετε ή προκαλέσετε φθορά στη σωλήνα κατά την διαδικασία.

ΣΗΜΕΙΩΣΗ ΓΙΑ ΓΩΝΙΑ ΑΓΩΓΟΥ

Ο αγωγός του ψυκτικού μέσου μπορεί να βγει από την εσωτερική μονάδα από 4 διαφορετικές γωνίες:

- Αριστερή πλευρά
- Αριστερή πίσω πλευρά
- Δεξιά πλευρά
- Δεξιά πίσω πλευρά

Ανατρέξτε στο Σχ. 3.4 για λεπτομέρειες



! ΠΡΟΣΟΧΗ

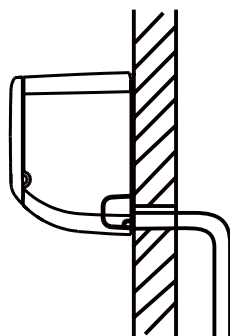
Να είστε ιδιαίτερα προσεκτικοί να μην προκαλέσετε βαθούλωμα ή καταστροφή του αγωγού κατά τη διάρκεια που τα βγάξετε από το μηχάνημα. Οποιοδήποτε βαθούλωμα στον αγωγό μπορεί να έχει επιπτώσεις στην λειτουργία της μονάδας.

Βήμα 5. Συνδέστε τον αγωγό αποστράγγισης Προεπιλεγμένα, ο αγωγός αποστράγγισης είναι ενσωματωμένος στην αριστερή πλευρά της μονάδας (όπως βλέπετε το πίσω μέρος της μονάδας). Παρόλα αυτά, μπορεί επίσης να ενσωματωθεί στη δεξιά πλευρά.

1. Για να διασφαλίσετε την απαραίτητη αποστράγγιση, ενσωματώστε τον αγωγό αποστράγγισης στην ίδια πλευρά που ο αγωγός του ψυκτικού μέσου βγαίνει από τη μονάδα.
2. Ενσωματώστε επέκταση του αγωγού αποστράγγισης (ξεχωριστή χρέωση) στο τέλος του αγωγού αποστράγγισης.
3. Τυλίξτε το σημείο σύνδεσης με Teflon ταινία ώστε να διασφαλίσετε καλή μόνωση και να αποφύγετε την όποια διαρροή.
4. Για το τμήμα του αγωγού αποστράγγισης που θα παραμείνει εντός της μονάδας, τυλίξτε το με αφρώδη μόνωση σωλήνα ώστε να αποφύγετε την όποια υγραποίηση.
5. Αφαιρέστε το φίλτρο αέρα και αδειάστε μικρή ποσότητα νερού μέσα στο δοχείο αποστράγγισης ώστε να βεβαιωθείτε ότι το νερό ρέει ομαλά.

ΦΡΑΞΤΕ ΤΟΝ ΑΧΡΗΣΙΜΟΠΟΙΗΤΟ ΑΓΩΓΟ ΑΠΟΣΤΡΑΓΓΙΣΗΣ

Για να αποφύγετε ανεπιθύμητες διαρροές θα πρέπει να φράξετε τον αχρησιμοποίητο αγωγό αποστράγγισης με την ενδεικνυμένη τσιμούχα.



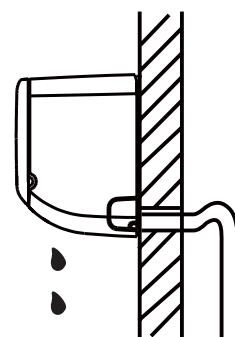
Σχ. 3.5

ΣΩΣΤΟ

Βεβαιωθείτε ότι δεν υπάρχουν τσακίσματα ή βαθουλώματα στον αγωγό αποστράγγισης ώστε να διασφαλίσετε την απαραίτητη αποστράγγιση

ΛΑΘΟΣ

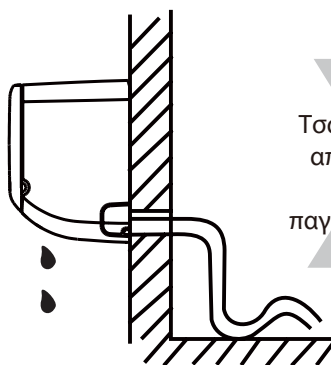
Τσάκισμα στον αγωγό αποστράγγισης θα οδηγήσει στην παγίδευση του νερού.



Σχ. 3.6

ΛΑΘΟΣ

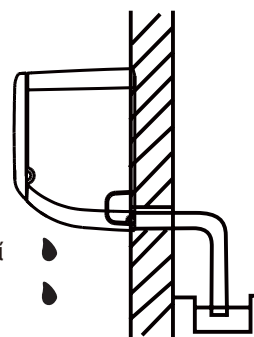
Τσάκισμα στον αγωγό αποστράγγισης θα οδηγήσει στην παγίδευση του νερού.



Σχ. 3.7

ΛΑΘΟΣ

Μην τοποθετείτε το άκρο του αγωγού αποστράγγισης μέσα σε νερό ή σε δοχείο συλλογής νερού. Αυτό μπορεί να προκαλέσει διαρροή.



Σχ. 3.8

ΣΗΜΕΙΩΣΗ ΣΤΗΝ ΤΟΠΟΘΕΤΗΣΗ ΤΟΥ ΑΓΩΓΟΥ ΑΠΟΣΤΡΑΓΓΙΣΗΣ

Βεβαιωθείτε ότι τοποθετήσατε τον αγωγό αποστράγγισης σύμφωνα με το Σχ. 3.5.

- ⊘ ΜΗΝ λυγίζετε τον αγωγό αποστράγγισης.
- ⊘ ΜΗΝ παγιδεύετε το νερό.
- ⊘ ΜΗΝ τοποθετείτε το άκρο του αγωγού αποστράγγισης μέσα στο νερό ή σε δοχείο που συλλέγει νερό.



ΠΡΙΝ ΕΚΚΙΝΗΣΕΤΕ ΤΙΣ ΗΛΕΚΤΡΟΛΟΓΙΚΕΣ ΕΡΓΑΣΙΕΣ, ΔΙΑΒΑΣΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ

1. Η ηλεκτρολογικές συνδέσεις θα πρέπει να συμφωνούν πλήρως με τις τοπικές και εθνικές οδηγίες και θα πρέπει να εγκατασταθούν από εξουσιοδοτημένο ηλεκτρολόγο.
2. Όλες οι ηλεκτρολογικές συνδέσεις πρέπει να είναι σύμφωνες με Διάγραμμα Ηλεκτρολογικής Σύνδεσης που βρίσκεται στο πάνελ της εσωτερικής και εξωτερικής μονάδας.
3. Αν υπάρχει σοβαρό θέμα ασφαλείας με τη παροχή ρεύματος, σταματήστε τις διεργασίες αμέσως. Εξηγήστε τους λόγους στον πελάτη και αρνηθείτε να εγκαταστήσετε τη μονάδα μέχρι να αποκατασταθεί η βλάβη.
4. Η τάση του ρεύματος θα πρέπει να είναι μεταξύ 90-100% της βαθμονομημένης τάσης. Απροσδιόριστη παροχή ρεύματος μπορεί να προκαλέσει δυσλειτουργία, ηλεκτροπληξία ή φωτιά.
5. Αν τροφοδοτήσετε με ρεύμα την ηλεκτρολογική εγκατάσταση του χώρου παρακαλείσθε να βάλετε διάταξη προστασίας υπέρτασης και ασφαλειοδιακόπτη με χωρητικότητα 1.5 φορά μεγαλύτερη από τη μέγιστη ένταση ρεύματος της μονάδας.
6. Αν τροφοδοτήσετε με ρεύμα τις ηλεκτρολογικές συνδέσεις, ένας διακόπτης ή ασφαλειοδιακόπτης που αποσυνδέει όλους τους πόλους και έχει διαχωριστική επαφή τουλάχιστον 1/8in (3mm) θα πρέπει να είναι σύμφωνος με την ηλεκτρολογική σύνδεση. Ο εξειδικευμένος τεχνικός πρέπει να χρησιμοποιεί αυτόματο διακόπτη κυκλώματος.
7. Συνδέστε τη μονάδα σε ανεξάρτητο ηλεκτρολογικό κύκλωμα. Μην συνδέετε άλλες συσκευές σε αυτή τη πρίζα.
8. Βεβαιωθείτε ότι το κλιματιστικό είναι σωστά γειωμένο.
9. Κάθε καλώδιο θα πρέπει να είναι σφιχτά συνδεδεμένο. Απώλεια ρεύματος μπορεί να οδηγήσει σε υπερθέρμανση της μονάδας, οδηγώντας σε δυσλειτουργία του προϊόντος και πιθανή φωτιά.
10. Μην αφήνετε τις επαφές καλωδίων ή άλλα μέρη εκτεθειμένα στον ψυκτικό κύκλο, τον συμπιεστή ή οποιοδήποτε άλλο κινητό μέρος της μονάδας.
11. Αν η μονάδα έχει βοηθητικό θερμαντικό σώμα, αυτό θα πρέπει να εγκατασταθεί τουλάχιστον 1 μέτρο (40i) μακριά από εύφλεκτα υλικά.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

ΠΡΙΝ ΤΙΣ ΗΛΕΚΤΡΟΝΙΚΕΣ Ή ΗΛΕΚΤΡΟΛΟΓΙΚΕΣ ΔΙΕΡΓΑΣΙΕΣ, ΑΠΟΣΥΝΔΕΣΤΕ ΤΗ ΚΥΡΙΑ ΠΑΡΟΧΗ ΡΕΥΜΑΤΟΣ ΑΠΟ ΤΟ ΣΥΣΤΗΜΑ.

Βήμα 6: Συνδέστε το καλώδιο σήματος
Το καλώδιο σήματος διευκολύνει την επικοινωνία μεταξύ εξωτερικής και εσωτερικής μονάδας. Θα πρέπει πρώτα να επιλέξετε το σωστό μέγεθος καλωδίου πριν παραγματοποιήσετε τη σύνδεση.

Τύποι Καλωδίων

- Εσωτερικό Καλώδιο Παροχής (Αν εφαρμόζεται) H05V2V2-F
- Εξωτερικό Καλώδιο Παροχής H07RN-F
- Καλώδιο σήματος: H07RN-F

Ελάχιστη Διατομή Καλωδίου για καλώδια
Ρεύματος και Σήματος

Βόρεια Αμερική

Τάση Συσκευής (Α)	AWG
10	18
13	16
18	14
25	12
30	10

Άλλες περιοχές

Τάση Συσκευής (Α)	Διατομή Καλωδίου (mm ²) Area (mm ²)
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

ΕΠΙΛΕΞΤΕ ΚΑΤΑΛΛΗΛΟ ΜΕΓΕΘΟΣ ΚΑΛΩΔΙΟΥ

Το κατάλληλο μέγεθος του καλωδίου τροφοδοσίας, του καλωδίου σήματος, του καλωδίου ασφαλείας και του διακόπτη καθορίζεται από το μέγιστο ρεύμα που ενδείκνυται από τη συσκευή. Ανατρέξτε στο ταμπλεάκι που βρίσκεται στη πλευρά του πίνακα, ώστε να επιλέξετε το σωστό μέγεθος καλωδίου, την ασφάλεια ή τον διακόπτη.

ΣΗΜΕΙΩΣΤΕ ΤΙΣ ΠΡΟΔΙΑΓΡΑΦΕΣ ΚΑΛΩΔΙΟΥ ΑΣΦΑΛΕΙΑΣ

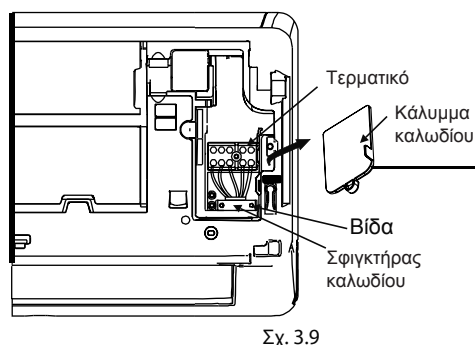
Ο ηλεκτρολογικός πίνακας του κλιματιστικού είναι σχεδιασμένος με καλώδιο ασφαλείας ώστε να παρέχει προστασία. Οι προδιαγραφές του καλωδίου ασφαλείας είναι τυπωμένες στον ηλεκτρολογικό πίνακα, όπως: T3.15A/250VAC, T5A/250VAC, κλπ.

1. Ετοιμάστε το καλώδιο για τη σύνδεση:

- Χρησιμοποιήστε απογυμνωτές καλωδίων, αφαιρέστε το πλαστικό περιβλήμα και στα δυο άκρα του καλωδίου ώστε να αποκαλυφθούν περίπου 15 cm (6in) των καλωδίων
- Βγάλτε τη μόνωση από τις άκρες των καλωδίων.
- Χρησιμοποιήστε πένσα για να δημιουργήσετε απολύξεις τύπου U στις άκρες των καλωδίων.

ΠΡΟΣΕΞΤΕ ΤΟ ΚΑΛΩΔΙΟ ΦΑΣΗΣ

- Όταν πιέζετε μαζί τα καλώδια, βεβαιωθείτε ότι έχετε ξεχωρίσει το καλώδιο φάσης από τα άλλα καλώδια.
- Ανοίξτε το μπροστινό πάνελ της εσωτερικής μονάδας ξεβιδώνοντας τις βίδες σύμφωνα με το Σχ. 4.7, το οποίο παρουσιάζει μεγάλο χώρο για συνδέσεις καλωδίων.
- Ανοίξτε το κάλυμμα καλωδίων να συνδέσετε το καλώδιο.



Το Διάγραμμα Καλωδίων βρίσκεται στο εσωτερικό μέρος του καλύμματος καλωδίων της εσωτερικής μονάδας.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

ΟΛΕΣ ΟΙ ΚΑΛΩΔΙΩΣΕΙΣ ΠΡΕΠΕΙ ΝΑ ΕΙΝΑΙ ΑΠΟΛΥΤΑ ΣΥΜΦΩΝΕΣ ΜΕ ΤΟ ΔΙΑΓΡΑΜΜΑ ΚΑΛΩΔΙΩΣΗΣ ΠΟΥ ΒΡΙΣΚΕΤΑΙ ΣΤΟ ΕΣΩΤΕΡΙΚΟ ΜΕΡΟΣ ΤΟΥ ΚΑΛΥΜΜΑΤΟΣ ΚΑΛΩΔΙΩΝ ΤΗΣ ΕΣΩΤΕΡΙΚΗΣ ΜΟΝΑΔΑΣ.

- Ξεβιδώστε τον σφιγκτήρα καλωδίου κάτω από το τερματικό
- Βλέποντας το πίσω μέρος της μονάδας, αφαιρέστε το πλαστικό πάνελ στο κάτω μέρος της αριστερής πλευράς.

6. Τροφοδοτήστε το καλώδιο σήματος μέσω αυτής της υποδοχής, από το πίσω μέρος της μονάδας στο μπροστινό.
7. Βλέποντας το μπροστινό μέρος της μονάδας, ταιριάζετε τα χρώματα των καλωδίων με τα ταμπελάκια στο τερματικό, ενώστε την επαφή και σφίχτά βιδώστε κάθε καλώδιο στην αντίστοιχη υποδοχή.

! ΠΡΟΣΟΧΗ

ΜΗΝ ΜΠΛΕΚΕΤΕ ΤΑ ΚΑΛΩΔΙΑ ΤΑΣΗΣ ΚΑΙ ΟΥΔΕΤΕΡΟΥ
Αυτό είναι επικίνδυνο και μπορεί να προκαλέσει δυσλειτουργίες στο κλιματιστικό.

8. Αφότου ελέγξετε να βεβαιωθείτε ότι κάθε σύνδεση είναι ασφαλής, χρησιμοποιήστε το σφιγκτήρα καλωδίων ώστε να συνδέσετε το καλώδιο σήματος στη μονάδα. Βιδώστε τον σφιγκτήρα καλωδίων προς τα κάτω γερά.

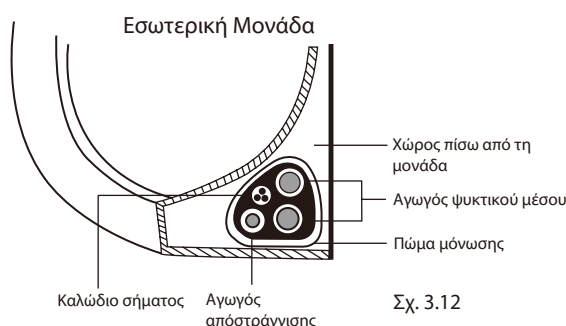
9. Αντικαταστήστε το κάλυμμα του καλωδίου στο μπροστινό μέρος της μονάδας και το πλαστικό κάλυμμα στο πίσω μέρος.

! ΣΗΜΕΙΩΣΗ ΓΙΑ ΚΑΛΩΔΙΩΣΕΙΣ

Η ΗΛΕΚΤΡΟΛΟΓΙΚΗ ΣΥΝΔΕΣΗ ΜΠΟΡΕΙ ΝΑ ΔΙΑΦΕΡΕΙ ΕΛΑΦΡΩΣ ΜΕΤΑΞΥ ΤΩΝ ΜΟΝΑΔΩΝ.

Βήμα 7: Τυλίξτε καλώδια και αγωγούς
Πριν περάσετε τον αγωγό, τον αγωγό αποστράγγισης και το καλώδιο σήματος μέσω της οπής του τοίχου, θα πρέπει να τα δέσετε μαζί ώστε να εξοικονομήσετε χώρο, να τα προστατέψετε και να τα μονώσετε.

1. Τυλίξτε τον αγωγό αποστράγγισης, τους αγωγούς του ψυκτικού και το καλώδιο σήματος σύμφωνα με τον πίνακα Σχ. 3.12.



Ο ΑΓΩΓΟΣ ΑΠΟΣΤΡΑΓΓΙΣΗΣ ΘΑ ΠΡΕΠΕΙ ΝΑ ΕΙΝΑΙ ΣΤΟ ΚΑΤΩ ΜΕΡΟΣ

Βεβαιωθείτε ότι ο αγωγός αποστράγγισης είναι στο κάτω μέρος του τυλίγματος. Τοποθετώντας τον αγωγό αποστράγγισης στο πάνω μέρος του τυλίγματος μπορεί να προκαλέσει υπερχειλίση του δοχείου αποστράγγισης, το οποίο μπορεί να οδηγήσει σε φωτιά ή διαρροή νερού.

ΜΗΝ ΜΠΛΕΚΕΤΕ ΤΑ ΚΑΛΩΔΙΑ ΣΗΜΑΤΟΣ ΜΕ ΤΑ ΥΠΟΛΟΙΠΑ ΚΑΛΩΔΙΑ

Όταν τυλιγέτε τα καλώδια μαζί, μην μπλέκετε ή σταυρώνετε το καλώδιο σήματος με κάποιο άλλο καλώδιο.

2. Χρησιμοποιήστε κολλώδη ταινία βυνιλίου, ώστε να προσαρμόσετε τον αγωγό αποστράγγισης στην κάτω μεριά του αγωγού ψυκτικού μέσου.

3. Χρησιμοποιήστε μονωτική ταινία, τυλίξτε το καλώδιο σήματος, τους αγωγούς ψυκτικού μέσου και τον αγωγό αποστράγγισης σφιχτά μεταξύ τους. Ελέγξτε διπλά ότι όλα τα καλώδια είναι τυλιγμένα σύμφωνα με το Σχ. 3.12.

ΜΗΝ ΤΥΛΙΓΕΤΕ ΤΙΣ ΑΚΡΕΣ ΤΩΝ ΑΓΩΓΩΝ

Όταν τυλίγεται τη δέσμη των αγωγών, κρατήστε τις άκρες τους ξετυλιγμένες. Χρειάζεται να έχετε πρόσβαση στις άκρες ώστε να κάνετε έλεγχο για διαρροές στο τέλος της διαδικασίας εγκατάστασης (ανατρέξτε στην ενότητα Ηλεκτρολογικός Έλεγχος και Έλεγχος Διαρροών αυτού του εγχειριδίου).

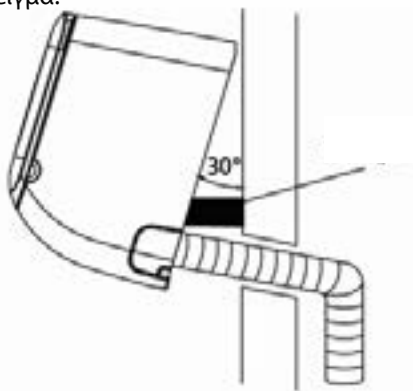
Βήμα 8: Τοποθετήστε την εσωτερική μονάδα
Αν εγκαταστήσετε νέους αγωγούς σύνδεσης στην εξωτερική μονάδα, ακολουθήστε τα παρακάτω:

1. Αν έχετε ήδη περάσει τον αγωγό ψυκτικού μέσου μέσα στην τρύπα του τοίχου, προχωρήστε στο Βήμα 4.
2. Διαφορετικά, ελέγξτε διπλά ότι οι άκρες των αγωγών ψυκτικού μέσου είναι μονωμένες ώστε να αποφευχθεί η βρωμία ή η εισχώρηση άλλων αντικειμένων μέσα στους αγωγούς.
3. Περάστε αργά τη τυλιγμένη δέσμη των αγωγών ψυκτικού μέσου, αποστράγγισης και καλωδίου σήματος, μέσα από την οπή του τοίχου.
4. Γαντζώστε το πάνω μέρος της εσωτερικής μονάδας στον πάνω γάντζο της επιτοίχιας πλακέτας.
5. Ελέγξτε ότι η μονάδα είναι σφιχτά γαντζωμένη στην επιτοίχια πλακέτα εφαρμόζοντας ελαφριά πίεση στην αριστερή και δεξιά πλευρά της μονάδας. Η μονάδα δεν θα πρέπει να κουνιέται ή να αλλάζει θέση.
6. Ασκήστε παραπάνω πίεση, σπρώξτε προς τα κάτω στα μέσα της μονάδας. Συνεχίστε να πιέζετε προς τα κάτω, μέχρι η μονάδα να γαντζωθεί σε όλο το μήκος το κάτω μέρος της επιτοίχιας μονάδας.
7. Ξανά, ελέγξτε ότι η μονάδα εφαρμόζεται ακριβώς ασκώντας ελαφριά πίεση στην αριστερή και δεξιά πλευρά της μονάδας.

Αν ο αγωγός ψυκτικού μέσου είναι έτοιμος να διαπεράσει τον τοίχο, ακολουθήστε το παρακάτω:

1. Κρεμάστε την εσωτερική μονάδα στη επιτοίχια πλακέτα.

2. Χρησιμοποιήστε έναν βραχίονα ή μια σφήνα να ανασηκώσετε τη μονάδα, δίνοντας αρκετό χώρο για τη σύνδεση του αγωγού ψυκτικού μέσου, καλωδίου σήματος και του αγωγού αποστράγγισης. Ανατρέξτε στο Σχ. 3.13 για παράδειγμα.



Σχ. 3.13

3. Συνδέστε τον σύνδεσμο αποστράγγισης και τον αγωγό ψυκτικού μέσου (ανατρέξτε στην ενότητα Αγωγός Ψυκτικού Μέσου αυτού του εγχειριδίου για οδηγίες)

4. Κρατήστε το σημείο σύνδεσης του αγωγού εκτεθειμένο ώστε να κάνετε το τεστ διαρροής (ανατρέξτε στην ενότητα ελέγχου για Ηλεκτρολογικές Διαρροές και Διαρροές Υγρών αυτού του εγχειριδίου).

5. Μετά από το τεστ διαρροής, τυλίξτε το σημείο σύνδεσης με μονωτική ταινία.

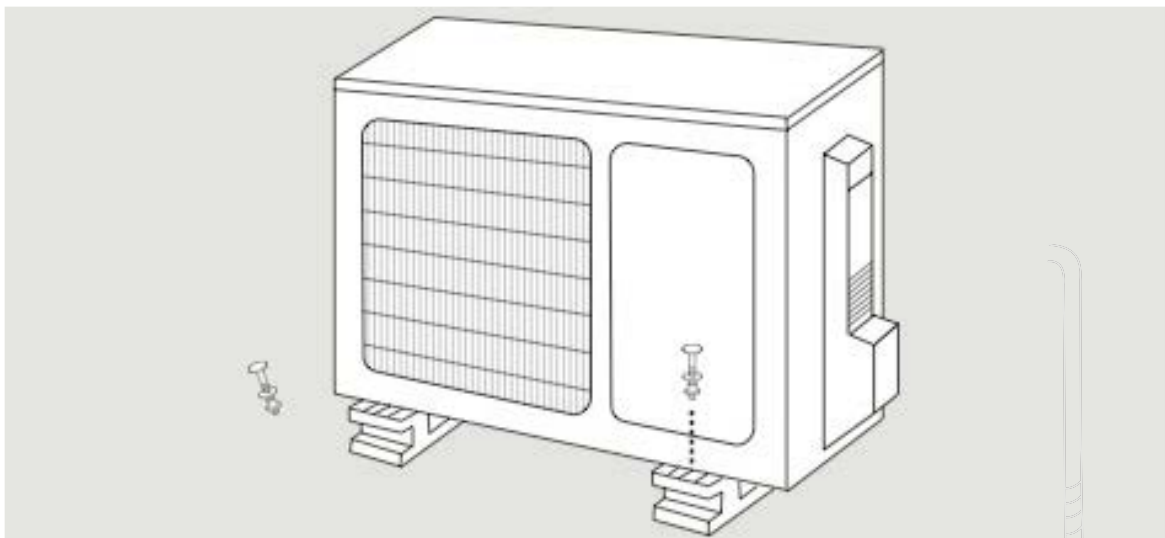
6. Αφαιρέστε το κομμάτι που φέρει η μονωτική ταινία.

7. Ασκήστε πίεση, πιέζοντας προς τα κάτω στη μέση της μονάδας. Συνεχίστε να πιέζετε προς τα κάτω μέχρι η μονάδα να γαντζωθεί στην επιτοίχια πλακέτα.

Εγκατάσταση Εξωτερικής Μονάδας

5

Εγκατάσταση
Εξωτερικής Μονάδας



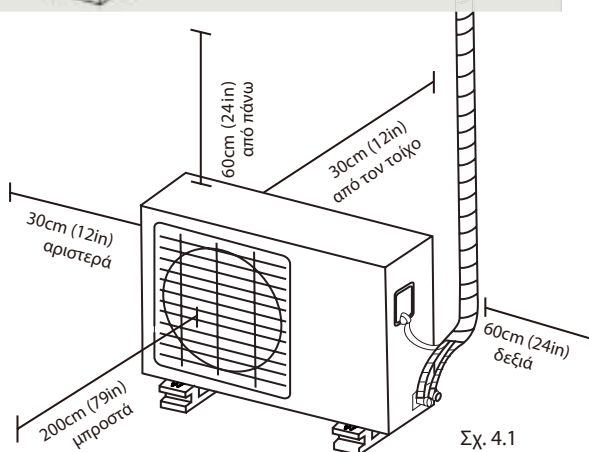
Οδηγίες Εγκατάστασης- Εξωτερική Μονάδα

Βήμα 1. Επιλέξτε τοποθεσία εγκατάστασης

Πριν εγκαταστήσετε την εξωτερική μονάδα, πρέπει να επιλέξετε τη κατάλληλη θέση. Οι ακόλουθες προδιαγραφές θα σας βοηθήσουν να επιλέξετε μια κατάλληλη τοποθεσία για τη μονάδα.

Οι κατάλληλες τοποθεσίες εγκατάστασης συναντούν τις ακόλουθες προδιαγραφές:

- ☑ • Συναντούν όλες τις προϋποθέσεις όπως φαίνεται στις Προδιαγραφές Χώρου Εγκατάστασης (Σχ. 4.1)
- ☑ • Καλή ανακυκλοφορία του αέρα και εξαέρωση
- ☑ • Σταθερή και στιβαρή τοποθεσία για αποφυγή κραδασμών
- ☑ • Ο θόρυβος της μονάδας δεν θα ενοχλεί τους παρευρισκόμενους
- ☑ • Προστατεύεται από μεγάλες περιόδους έκθεσης στην ηλιακή ακτινοβολία ή τη βροχή.



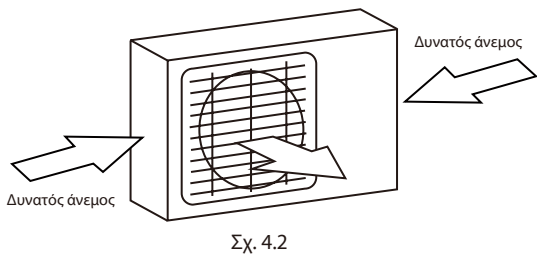
Σχ. 4.1

ΜΗΝ εγκαθιστάτε στις ακόλουθες τοποθεσίες:

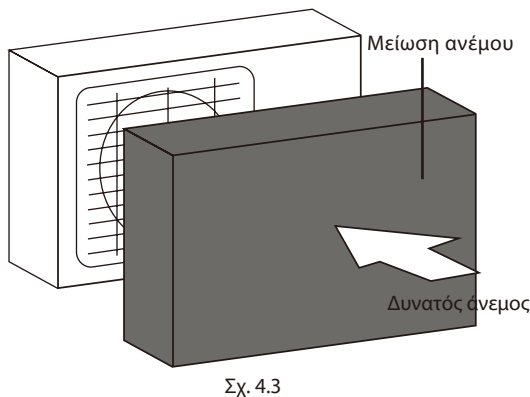
- ⊘ Κοντά σε εμπόδια που θα παρεμποδίσουν τον αέρα να εισέλθει και να εξέλθει
- ⊘ Κοντά σε ζώα ή φυτά που μπορεί να τραυματιστούν από τον ζεστό αέρα που αποβάλλεται
- ⊘ Κοντά σε κάθε είδους εύφλεκτη πηγή
- ⊘ Σε περιοχές που αποβάλλεται μεγάλη ποσότητα σκόνης
- ⊘ Σε περιοχή όπου υπάρχει μεγάλη ποσότητα αλατος στον αέρα.

ΕΙΔΙΚΕΣ ΣΥΝΘΗΚΕΣ ΓΙΑ ΕΝΤΟΝΑ ΚΑΙΡΙΚΑ ΦΑΙΝΟΜΕΝΑ

Αν η μονάδα εκτίθεται σε έντονο άνεμο:
Εγκαταστήστε τη μονάδα έτσι ώστε η έξοδος ανεμιστήρα να είναι υπό γωνία 90ο στη κατεύθυνση του ανεμιστήρα. Αν χρειαστεί, φτιάξτε ένα φράγμα μπροστά από τη μονάδα ώστε να τη προστατέψετε από τον ισχυρό άνεμο. Δείτε Σχ. 4.2 και Σχ. 4.3 παρακάτω.



Σχ. 4.2



Σχ. 4.3

Αν η μονάδα συχνά εκτίθεται σε έντονη βροχόπτωση ή χιονιά:
Φτιάξτε ένα ράφι πάνω από τη μονάδα ώστε να τη προστατεύει από βροχή και χιόνι. Προσέξτε να μην εμποδίζετε τον αέρα γύρω από τη μονάδα. Αν η μονάδα εκτίθεται συχνά σε αέρα με ποσότητα άλατος (παραθαλάσσια):
Χρησιμοποιήστε εξωτερική μονάδα που είναι ειδικά σχεδιασμένη για να αποφεύγεται η διάβρωση.

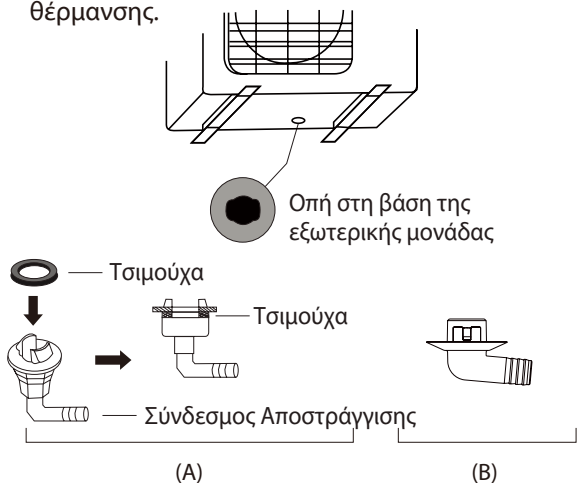
Βήμα 2: Εγκαταστήστε τον σύνδεσμο αποστράγγισης Μονάδες αντλιών θερμότητας προϋποθέτου σύνδεσμο αποστράγγισης. Πριν βιδώσετε την εξωτερική μονάδα στη βάση, πρέπει να εγκαταστήσετε τον σύνδεσμο αποστράγγισης στο κάτω μέρος της μονάδας. Σημειώστε ότι υπάρχουν δυο διαφορετικοί τύποι συνδέσμων αποστράγγισης που εξαρτώνται από τον τύπο της εξωτερικής μονάδας.

Εάν ο σύνδεσμος φέρει λαστιχένια τσιμούχα (Δείτε Σχ. 4.4-A), κάντε τα ακόλουθα:

1. Προσαρμόστε τη λαστιχένια τσιμούχα στο τέλος του συνδέσμου αποστράγγισης που ενώνεται με την εξωτερική μονάδα.
2. Τοποθετήστε τον σύνδεσμο αποστράγγισης στην οπή της βάσης της μονάδας.
3. Περιστρέψτε τον σύνδεσμο κατά 90ο μέχρι να ακούσετε το κλικ στο μπροστινό μέρος της μονάδας.
4. Ενώστε προέκταση του αγωγού αποστράγγισης (δεν συμπεριλαμβάνεται) στον σύνδεσμο αποστράγγισης ώστε να στρέψετε τη ροή του νερού από τη μονάδα κατά τη διάρκεια της λειτουργίας θέρμανσης.

Αν ο σύνδεσμος αποστράγγισης δεν φέρει λαστιχένια τσιμούχα (Δείτε Σχ. 4.4-B), κάντε τα ακόλουθα:

1. Τοποθετήστε αγωγό αποστράγγισης στη τρύπα στη βάση της μονάδας. Ο σύνδεσμος αποστράγγισης πρέπει να κουμπώσει στη βάση.
2. Ενώστε την προέκταση του αγωγού αποστράγγισης (δεν συμπεριλαμβάνεται) με τον σύνδεσμο αποστράγγισης ώστε να στρέψετε το νερό από τη μονάδα κατά τη διάρκεια της λειτουργίας θέρμανσης.



Σχ. 4.4

ΣΕ ΠΑΓΕΡΕΣ ΚΛΙΜΑΤΙΚΕΣ ΣΥΝΘΗΚΕΣ

Σε παγερές συνθήκες περιβάλλοντος, βεβαιώστε ότι ο αγωγός αποστράγγισης είναι κάθετος όσο το δυνατόν περισσότερο ώστε να εξασφαλίσετε την αλλαγή στο νερό αποστράγγισης. Αν η αποστράγγιση του νερού γίνεται πολύ αργά, μπορεί να παγώσει στη τρύπα και να υπερχειλίσει τη μονάδα.

Βήμα 3: Στερεώστε την εξωτερική μονάδα
Η εξωτερική μονάδα μπορεί να στερεωθεί
στο έδαφος ή σε επιτοίχιο βραχίονα.

ΔΙΑΣΤΑΣΕΙΣ ΕΞΩΤΕΡΙΚΗΣ ΜΟΝΑΔΑΣ

Τα ακόλουθα είναι μια λίστα από
διαφορετικές διαστάσεις εξωτερικών
μονάδων και αποστάσεις μεταξύ
των επιτοίχιων μονάδων.

Προετοιμάστε την βάση εγκατάστασης
της μονάδας σύμφωνα με τις ακόλουθες
διαστάσεις.

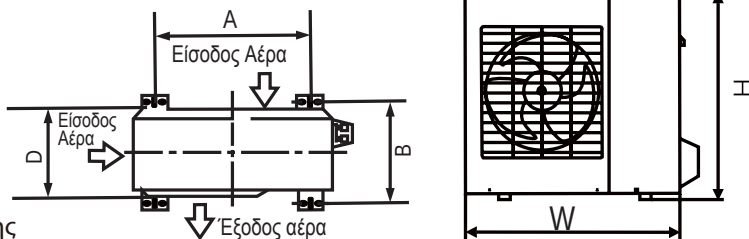


Fig. 4.5

Διαστάσεις εξωτερικής μονάδας (mm)	Διαστάσεις επιτοίχιας μονάδας	
	Απόσταση Α(mm)	Απόσταση Β(mm)
W x H x D		
685x430x260 (27"x17"x10.25")	460 (18.10")	276 (10.85")
700x540x240 (27.5"x21.25"x9.45")	458 (18")	250 (9.85")
780x540x250 (30.7"x21.25"x9.85")	549 (21.6")	276 (10.85")
760x590x285 (29.9"x23.2"x11.2")	530 (20.85")	290 (11.4")
845x700x320 (33.25"x27.5"x12.6")	560 (22")	335 (13.2")
810x558x310 (31.9"x22"x12.2")	549 (21.6")	325 (12.8")
709x550x270 (27.9"x21.65"x10.63")	450 (17.7")	260 (10.24")
770x555x300 (30.3"x21.85"x11.81")	487 (19.2")	298 (11.73")
800x554x333 (31.5"x21.8"x13.1")	514 (20.24")	340 (13.39")
845x700x340 (33.25"x27.5"x13.38")	540 (21.26")	350 (13.8")
900x860x315 (35.4"x33.85"x12.4")	590 (23.2")	333 (13.1")
945x810x395 (37.2"x31.9"x15.55")	640 (25.2")	405 (15.95")
946x810x420 (37.21"x31.9"x16.53")	673 (26.5")	403 (15.87")

Αν θα εγκαταστήσετε τη μονάδα στο έδαφος ή σε
βάση σκυροδέματος, κάντε τα ακόλουθα:

1. Προσδιορίστε τις θέσεις των τεσσάρων βιδών
σύμφωνα με τις διαστάσεις που υπάρχουν στον
πίνακα με τις διαστάσεις της Επιτοίχιας Μονάδας.
2. Προσχεδιάστε το άνοιγμα οπών για τα βύσματα
προέκτασης
3. Απομακρύνετε τη σκόνη που προέρχεται από
το σκυρόδεμα μακριά από τις οπές.
4. Τοποθετήστε ένα παξιμάδι στο τέλος κάθε βίδας.
5. Καρφώστε τα βύσματα προέκτασης στις
προσχεδιασμένες οπές.

6. Αφαιρέστε τα παξιμάδια από τα βύσματα
προέκτασης και τοποθετήστε την εξωτερική
μονάδα στις βίδες.

7. Τοποθετήστε ροδέλες σε κάθε βύσμα προέκτασης
και μετά αντικαταστήστε τα παξιμάδια.

8. Χρησιμοποιώντας γαλλικό κλειδί, σφίξτε κάθε
παξιμάδι μέχρι να κουμπώσει.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

ΟΤΑΝ ΤΡΥΠΑΤΕ ΣΕ ΣΚΥΡΟΔΕΜΑ, ΠΡΟΣΤΑΤΕΨΤΕ
ΤΑ ΜΑΤΙΑ ΚΑΘΟΛΗ ΤΗ ΔΙΑΡΚΕΙΑ.

Αν εγκαταστήσετε την μονάδα σε επιτοίχιο βραχίονα, κάντε τα ακόλουθα:

! ΠΡΟΣΟΧΗ

Πριν την εγκατάσταση της επιτοίχιας μονάδας, βεβαιωθείτε ότι ο τοίχος είναι φτιαγμένος από συμπαγή τούβλα, σκυρόδεμα ή όμοια στιβαρά υλικά. Ο τοίχος πρέπει να είναι ικανός να υποστηρίξει τουλάχιστον τέσσερις φορές το βάρος της μονάδας.

1. Προσδιορίστε τις θέσεις των βραχιόνων σύμφωνα με τις διαστάσεις που υπάρχουν στον πίνακα με τις διαστάσεις της Επιτοίχιας Μονάδας.
2. Προετοιμάστε τις οπές για τα βύσματα προέκτασης.
3. Απομακρύνετε τη σκόνη και τα χαλάσματα μακριά από τις οπές.
4. Τοποθετήστε ένα παξιμάδι στο τέλος κάθε βίδας.
5. Περάστε τα βύσματα προέκτασης μέσα από τις οπές στους επιτοίχιους βραχίονες, τοποθετήστε τους επιτοίχιους βραχίονες στη κατάλληλη θέση και καρφώστε τα βύσματα προέκτασης στον τοίχο.
6. Ελέγξτε ότι τοποθετήθηκαν σωστά οι επιτοίχιοι βραχίονες.
7. Προσεκτικά σηκώστε τη μονάδα και τοποθετήστε τη στηρίγματα της μονάδας πάνω στους βραχίονες.
8. Βιδώστε τη μονάδα ακριβώς στους βραχίονες.

ΜΕΙΩΣΤΕ ΤΟΥΣ ΚΡΑΔΑΣΜΟΥΣ ΣΤΗΝ ΕΠΙΤΟΙΧΙΑ ΜΟΝΑΔΑ

Αν επιτρέπεται, μπορείτε να εγκαταστήσετε την επιτοίχια μονάδα με λαστιχένιους συνδέσμους ώστε να μειώσετε τους κραδασμούς και τον θόρυβο.

Βήμα 4: Συνδέστε τα καλώδια σήματος και ρεύματος
Το τερματικό τμήμα της εξωτερικής μονάδας προστατεύεται από ένα κάλυμμα καλωδίου στο πλάγιο μέρος της μονάδας. Ένα γενικό διάγραμμα καλωδίωσης είναι τυπωμένο στο εσωτερικό μέρος του καλύμματος καλωδίων.

ΠΡΙΝ ΠΡΑΓΜΑΤΟΠΟΙΗΣΕΤΕ ΗΛΕΚΤΡΟΛΟΓΙΚΕΣ ΔΙΕΡΓΑΣΙΕΣ, ΔΙΑΒΑΣΤΕ ΤΙΣ ΟΔΗΓΙΕΣ

1. Όλες οι καλωδιώσεις θα πρέπει να είναι σύμφωνες με τους τοπικούς και εθνικούς ηλεκτρολογικούς κανονισμούς και θα πρέπει να εγκαθίστανται από εξουσιοδοτημένο ηλεκτρολόγο.
2. Όλες οι ηλεκτρολογικές συνδέσεις πρέπει να γίνουν σύμφωνα με το Διάγραμμα Ηλεκτρολογικών Συνδέσεων που βρίσκεται στη μεριά των πάνελ της εξωτερικής και εσωτερικής μονάδας.
3. Αν υπάρχει σοβαρό θέμα ασφάλειας με τη παροχή ρεύματος, σταματήστε τη λειτουργία αμέσως. Εξηγήστε τους λόγους στον πελάτη και αρνηθείτε να πραγματοποιήσετε την εγκατάσταση μέχρι να αποκατασταθεί το πρόβλημα.
4. Η τάση του ρεύματος πρέπει να είναι μεταξύ 90-100% της βαθμονομημένης τάσης. Ανεπαρκής παροχή ρεύματος μπορεί να προκαλέσει ηλεκτροπληξία ή φωτιά.
5. Αν συνδέσετε με το ρεύμα τις καλωδιώσεις, βάλτε διάταξη προστασίας υπέρτασης και ασφαλειοδιακόπτη με χωρητικότητα 1.5 φορές παραπάνω από αυτή που λειτουργεί κανονικά η μονάδα.
6. Αν συνδέσετε με ρεύμα τις καλωδιώσεις, ένας διακόπτης ή ασφαλειοδιακόπτης που αποσυνδέει όλους τους πόλους και έχει διαχωριστική επαφή τουλάχιστον 1/8in (3mm) πρέπει να είναι ενσωματωμένα στο ηλεκτρολογικό κύκλωμα. Ένας εξειδικευμένος τεχνικός πρέπει να χρησιμοποιήσει έναν ενδεικνυμένο ασφαλειοδιακόπτη ή διακόπτη.
7. Συνδέστε τη μονάδα σε ξεχωριστή πρίζα. Μην συνδέετε άλλες συσκευές στην ίδια πρίζα.
8. Βεβαιωθείτε η μονάδα είναι γειωμένη σωστά.
9. Κάθε καλώδιο θα πρέπει να είναι σωστά συνδεδεμένο. Ελλιπής σύνδεση μπορεί να προκαλέσει υπερθέρμανση που οδηγεί σε δυσλειτουργία της μονάδας και σε πιθανή φωτιά.
10. ΜΗΝ αφήνετε τις επαφές των καλωδίων εκτεθειμένες στον αγωγό του ψυκτικού μέσου, στον συμπίεστή ή σε οποιοδήποτε κινητό μέρος μέσα στη μονάδα.
11. Αν η μονάδα έχει βοηθητική ηλεκτρική θέρμανση, πρέπει να εγκατασταθεί τουλάχιστον σε 1 μέτρο (40in) μακριά από εύφλεκτα υλικά.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

ΠΡΙΝ ΞΕΚΙΝΗΣΕΤΕ ΟΠΟΙΑΔΗΠΟΤΕ ΗΛΕΚΤΡΟΝΙΚΗ ΚΑΙ ΗΛΕΚΤΡΟΛΟΓΙΚΗ ΔΙΕΡΓΑΣΙΑ, ΑΠΕΝΕΡΓΟΠΟΙΗΣΤΕ ΤΗ ΚΥΡΙΑ ΤΡΟΦΟΔΟΣΙΑ ΤΟΥ ΣΥΣΤΗΜΑΤΟΣ.

1. Προετοιμάστε το καλώδιο για σύνδεση:

ΧΡΗΣΙΜΟΠΟΙΗΣΤΕ ΤΟ ΣΩΣΤΟ ΚΑΛΩΔΙΟ

- Εσωτερικό καλώδιο τροφοδοσίας (αν εφαρμόζεται): H05VV-F ή H05V2V2-F
- Εξωτερικό καλώδιο τροφοδοσίας: H07RN-F
- Καλώδιο Σήματος: H07RN-F

Ελάχιστη Διατομή Καλωδίων
Τροφοδοσίας και Σήματος

Βόρεια Αμερική

Τάση Συσκευής (A)	AWG
10	18
13	16
18	14
25	12
30	10

Άλλες Περιοχές

Τάση Συσκευής (A)	Διατομή Καλωδίου (mm ²)
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

α. Χρησιμοποιώντας πένσα απογυμνώστε τα καλώδια στις δυο άκρες για 15cm (6in) ώστε να εκτεθούν τα εσωτερικά καλώδια

β. Μονώστε τις άκρες των καλωδίων.

γ. Χρησιμοποιήστε σφιγκτήρα καλωδίου και σφίξτε τις συνδέσεις στις άκρες των καλωδίων.

ΠΡΟΣΕΞΤΕ ΤΟ ΚΑΛΩΔΙΟ ΦΑΣΗΣ

Όταν πιέζετε τα καλώδια, βεβαιωθείτε ότι έχετε ξεκαθαρίσει το καλώδιο φάσης από τα υπόλοιπα καλώδια.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

ΟΛΕΣ ΟΙ ΚΑΛΩΔΙΩΣΕΙΣ ΘΑ ΠΡΕΠΕΙ ΝΑ ΑΚΟΛΟΥΘΟΥΝ ΑΥΣΤΗΡΑ ΤΟ ΔΙΑΓΡΑΜΜΑ ΚΑΛΩΔΙΩΣΕΩΝ ΠΟΥ ΒΡΙΣΚΕΤΑΙ ΜΕΣΑ ΣΤΟ ΚΑΛΥΜΜΑ ΚΑΛΩΔΙΩΝ ΤΗΣ ΕΞΩΤΕΡΙΚΗΣ ΜΟΝΑΔΑΣ.

2. Ξεβιδώστε το κάλυμμα ηλεκτρολογικού καλωδίου και απομακρύντε το.

3. Ξεβιδώστε τον σφιγκτήρα καλωδίων κάτω από το τερματικό και τοποθετήστε το στη πλαϊνή πλευρά.

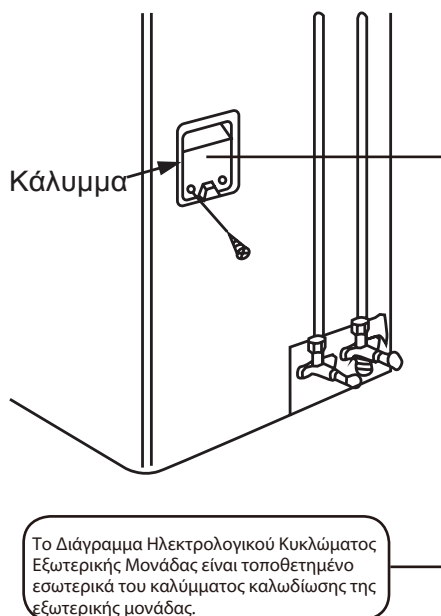
4. Ταιριάξτε τα χρώματα των καλωδίων/ ταμπελάκια με τα ταμπελάκια στο τερματικό και βιδώστε με ακρίβεια τις συνδέσεις κάθε καλωδίου στην αντίστοιχη υποδοχή.

5. Αφότου ελέγξετε για επιβεβαίωση ότι κάθε σύνδεση είναι ασφαλής, τυλίξτε τα καλώδια ώστε να αποφύγετε πτώση νερού μέσα στις υποδοχές.

6. Χρησιμοποιώντας τον σφιγκτήρα καλωδίων, δέστε το καλώδιο στη μονάδα. Βιδώστε τον σφιγκτήρα κάτω γερά.

7. Μονώστε τα αχρησιμοποιημένα καλώδια με PVC ταινία. Ταξινομήστε τα έτσι ώστε να μην ακουμπούν τα ηλεκτρικά ή τα μεταλλικά μέρη.

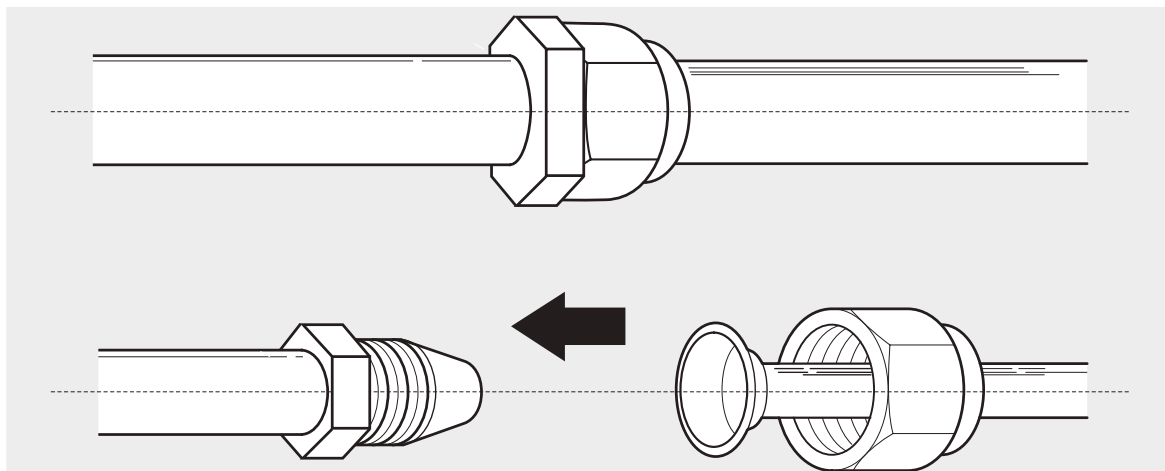
8. Αντικαταστήστε το κάλυμμα καλωδίων στη πλευρά της μονάδας και βιδώστε το.



Σχ. 4.6

ΣΥΝΔΕΣΗ ΑΓΩΓΟΥ ΨΥΚΤΙΚΟΥ ΜΕΣΟΥ

6



Σημείωση στο Μήκος του Αγωγού

Το μήκος του αγωγού ψυκτικού μέσου θα επηρεάσει την λειτουργία και την ενεργειακή απόδοση της μονάδας. Η εικονική απόδοση είναι ελεγμένη στις μονάδες με μήκος αγωγού 5 μέτρων (16.5ft). Ανατρέξτε στο παρακάτω πίνακα για λεπτομέρειες στο μέγιστο μήκος και δώστε ύψος στον αγωγό.

Μέγιστο Μήκος και Ύψος Αγωγού Ψυκτικού Μέσου για κάθε Μοντέλο Μονάδας

Μοντέλο	Απόδοση (BTU/h)	Μέγιστο Μήκος (m)	Μέγιστο Ύψος (m)
R410A Inverter Split Air Conditioner	< 15,000	25 (82ft)	10 (33ft)
	≥ 15,000 and < 24,000	30 (98.5ft)	20 (66ft)
	≥ 24,000 and < 36,000	50 (164ft)	25 (82ft)
	≥ 36,000 and ≤ 60,000	65 (213ft)	30 (98.5ft)

Οδηγίες Σύνδεσης- Αγωγός Ψυκτικού Μέσου

Βήμα 1: Κόψτε τους αγωγούς

Όταν ετοιμάζετε τους αγωγούς ψυκτικού μέσου, δώστε παραπάνω προσοχή να τους κόψετε και να τους εκχειλώσετε σωστά. Αυτό θα σας εξασφαλίσει αποδοτική λειτουργία και μειώνει την ανάγκη για μελλοντική συντήρηση.

1. Μετρήστε την απόσταση μεταξύ της εσωτερικής και εξωτερικής μονάδας.

2. Χρησιμοποιώντας κοπτικό, κόψτε τον αγωγό λίγο παραπάνω από τη μετρημένη απόσταση.

3. Βεβαιωθείτε ότι ο αγωγός είναι κομμένος σε τέλεια 90° γωνία.

Ανατρέξτε στο Σχ. 5.1 για κακή κοπή των αγωγών.



Σχ. 5.1



ΜΗΝ ΠΑΡΑΜΟΡΦΩΝΕΤΕ ΤΟΝ ΑΓΩΓΟ ΚΑΤΑ ΤΗ ΚΟΠΗ

Να είστε ιδιαίτερα προσεκτικοί να μην καταστρέψετε, λυγίσετε ή παραμορφώσετε τον αγωγό κατά τη διάρκεια κοπής. Αυτό μπορεί δραστικά να μειώσει την απόδοση θέρμανσης της μονάδας.

Βήμα 2: Απαλλαγείτε από τα βουητά

Τα γρέζια μπορεί να επηρεάσουν την αεροστεγή σύνδεση του πώματος στον αγωγό ψυκτικού μέσου. Πρέπει να αφαιρεθούν τελείως.

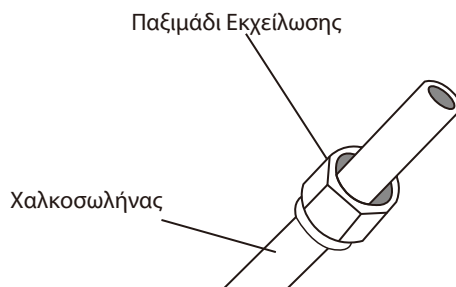
1. Κρατήστε τον αγωγό σε κατακόρυφη κλίση ώστε να αποφύγετε την εισχώρηση των γρεζιών στον αγωγό.
2. Χρησιμοποιώντας γλείφανο ή εργαλείο λείανσης, απομακρύνετε όλα τα γρέζια από το κομμένο τμήμα του αγωγού.



Σχ. 5.2

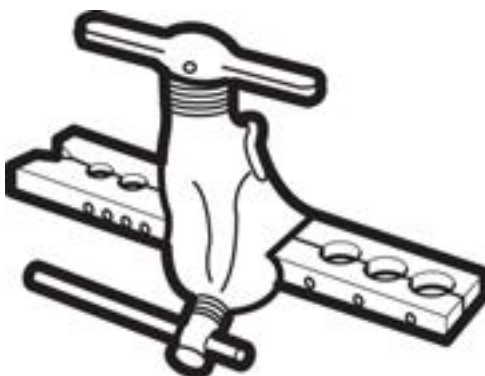
Βήμα 3: Εκχείλωση των άκρων του αγωγού
Σωστή εκχείλωση είναι απαραίτητη ώστε να πραγματοποιηθεί αεροστεγές κλείσιμο.

1. Αφότου αφαιρέσετε τα γρέζια από τον κομμένο αγωγό, καλύψτε τις άκρες με πλαστική ταινία ώστε να αποφύγετε την εισχώρησή τους στον αγωγό.
2. Τοποθετήστε παξιμάδια και στις δύο άκρες του αγωγού. Βεβαιωθείτε ότι βλέπουν στη σωστή κατεύθυνση, καθώς δεν θα μπορείτε να τα θέσετε σε λειτουργία ή να αλλάξετε τη κατεύθυνσή τους μετά την εκχείλωση.



Σχ. 5.3

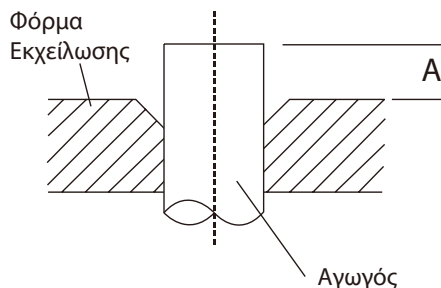
4. Remove PVC tape from ends of pipe when ready to perform flaring work.
5. Clamp flare form on the end of the pipe. The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.



Σχ. 5.4

ΕΠΕΚΤΑΣΗ ΑΓΩΓΟΥ ΠΕΡΑΝ ΤΟΥ ΠΑΞΙΜΑΔΙΟΥ

Εξωτερική Διάμετρος Αγωγού(mm)	Α (mm)	
	Ελάχιστη	Μέγιστη
Ø 6.35 (Ø 0.25")	0.7 (0.0275")	1.3 (0.05")
Ø 9.52 (Ø 0.375")	1.0 (0.04")	1.6 (0.063")
Ø 12.7 (Ø 0.5")	1.0 (0.04")	1.8 (0.07")
Ø 16 (Ø 0.63")	2.0 (0.078")	2.2 (0.086")



Σχ. 5.5

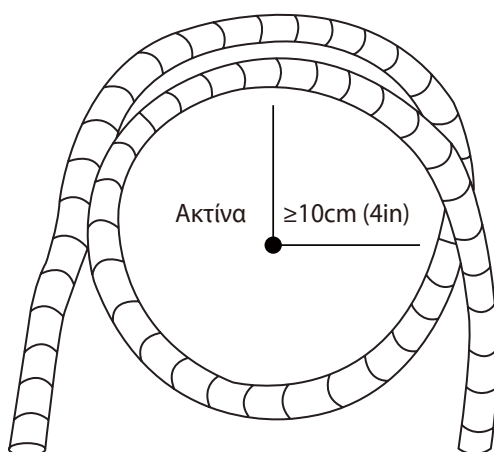
6. Τοποθετήστε το εργαλείο εκχείλωσης μέσα στη φόρμα.
7. Γυρίστε το εργαλείο εκχείλωσης με φορά ρολογιού, μέχρι να πραγματοποιηθεί η εκχείλωση.
8. Αφαιρέστε το εργαλείο εκχείλωσης και τη φόρμα αυτού, μετά εξετάστε τις άκρες του αγωγού για ραγίσματα και ανοίγματα.

Βήμα 4: Ενώστε τους αγωγούς

Όταν ενώνετε τους αγωγούς του ψυκτικού μέσου, προσέξτε να μην ασκήσετε υπερβολική ροπή ή να μην παραμορφώσετε τον αγωγό για οποιοδήποτε λόγο. Θα πρέπει αρχικά να συνδέσετε τον αγωγό χαμηλής πίεσης και μετά τον αγωγό υψηλής πίεσης.

ΕΛΑΧΙΣΤΗ ΑΚΤΙΝΑ ΛΥΓΙΣΜΑΤΟΣ

Όταν λυγίζετε τον αγωγό σύνδεσης ψυκτικού μέσου, η ελάχιστη ακτίνα λυγίσματος είναι 10cm. Δείτε Σχ. 5.6 .



Σχ. 5.6

Οδηγίες για Σύνδεση του Αγωγού στην Εσωτερική Μονάδα

1. Ευθυγραμμίστε στο κέντρο τους δυο αγωγούς που θέλετε να συνδέσετε. Δείτε Σχ. 5.7 .

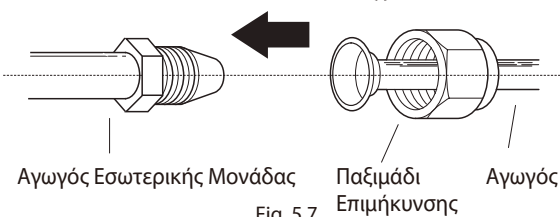
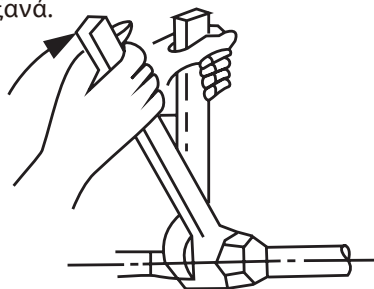


Fig. 5.7

2. Σφίξτε το παξιμάδι επιμήκυνσης όσο σφιχτά μπορείτε με το χέρι.
3. Χρησιμοποιήστε γερμανικό κλειδί, σφίξτε το παξιμάδι επιμήκυνσης στον αγωγό της μονάδας.
4. Όταν σφίγγετε γερά το παξιμάδι στον αγωγό της μονάδας, χρησιμοποιήστε κλειδί στρέψης ώστε να σφίξετε τα παξιμάδια σύμφωνα με τις αρχές σύσφιξης των Προδιαγραφών Στρέψης όπως φαίνεται στον παρακάτω πίνακα. Χαλαρώστε ελαφρώς τα παξιμάδια, μετά σφίξτε ξανά.



Σχ. 5.8

ΠΡΟΫΠΟΘΕΣΕΙΣ ΣΤΡΕΨΗΣ

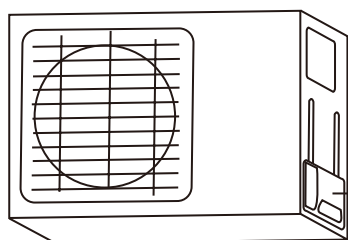
Εξωτερική Διάμετρος Αγωγού (mm)	Ροπή Στρέψης (N/cm)	Επιπρόσθετη ροπή σύσφιξης (N/m)
Ø 6.35 (Ø 0.25")	1,500 (11lb • ft)	1,600 (11.8lb • ft)
Ø 9.52 (Ø 0.375")	2,500 (18.4lb • ft)	2,600 (19.18lb • ft)
Ø 12.7 (Ø 0.5")	3,500 (25.8lb•ft)	3,600 (26.55lb•ft)
Ø 16 (Ø 0.63")	4,500 (33.19lb•ft)	4,700 (34.67lb•ft)

! ΜΗΝ ΑΣΚΕΙΤΕ ΠΑΡΑΠΑΝΩ ΡΟΠΗ

Παραπάνω ροπή μπορεί να σπάσει το παξιμάδι ή να καταστρέψει τον αγωγό ψυκτικού μέσου. Πρέπει να μην ξεπερνάτε τις αρχές ροπής που φαίνονται στο παραπάνω πίνακα.

Οδηγίες Σύνδεσης Αγωγού στην Εξωτερική Μονάδα

1. Ξεβιδώστε το κάλυμμα από τη πλακέτα της εξωτερικής μονάδας. (Δείτε Σχ. 5.9)



Κάλυμμα
βαλβίδας

Σχ. 5.9

2. Αφαιρέστε τα προστατευτικά πώματα από κάθε βαλβίδα.
3. Ευθυγραμμίστε τις άκρες των αγωγών με τις βαλβίδες και σφίξτε τα παξιμάδια επιμήκυνσης όσο πιο πολύ μπορείτε χειροκίνητα.
4. Χρησιμοποιώντας γερμανικό κλειδί, κρατήστε το σώμα της βαλβίδας. Μην κρατάτε το παξιμάδι που καλύπτει τη βαλβίδα.



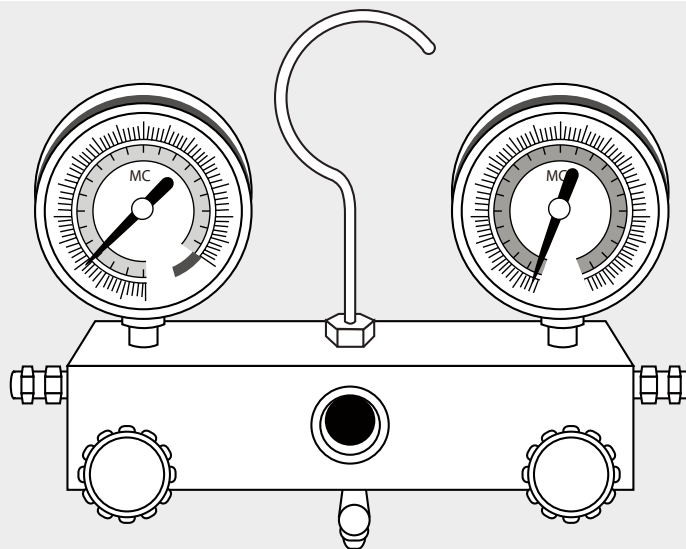
ΧΡΗΣΙΜΟΠΟΙΗΣΤΕ ΓΕΡΜΑΝΙΚΟΚΛΕΙΔΙ
ΓΙΑ ΝΑ ΚΡΑΤΗΣΕΤΕ ΤΟ ΣΩΜΑ ΤΗΣ ΒΑΛΒΙΔΑΣ

Η ροπή από την εκχείλωση μπορεί να προκαλέσει φθορά ή να κόψει τμήμα της βαλβίδας.



Σχ. 5.10

5. Ενώ κρατάτε το σώμα της βαλβίδας, χρησιμοποιήστε μηχανικό κλειδί ασφαλείας να σφίξετε το παξιμάδι σύμφωνα με της αρχές του μηχανικού κλειδιού.
6. Χαλαρώστε το παξιμάδι επιμήκυνσης ελαφρώς, μετά σφίξτε ξανά.
7. Επαναλάβετε τα βήματα από το 3 στο 6 για τις



Προεργασία και Οδηγίες

Αέρας και άλλα ξένα στοιχεία στο ψυκτικό κύκλο μπορεί να προκαλέσουν ασυνήθιστη αύξηση στη πίεση, το οποίο μπορεί να καταστρέψει το κλιματιστικό, να μειώσει την απόδοσή του και να προκαλέσει τραυματισμούς. Χρησιμοποιήστε αντλία κενού να εξαερώσετε το ψυκτικό κύκλο, αποβάλλοντας κάθε μη εύφλεκτο αέριο και υγρασία από το σύστημα.

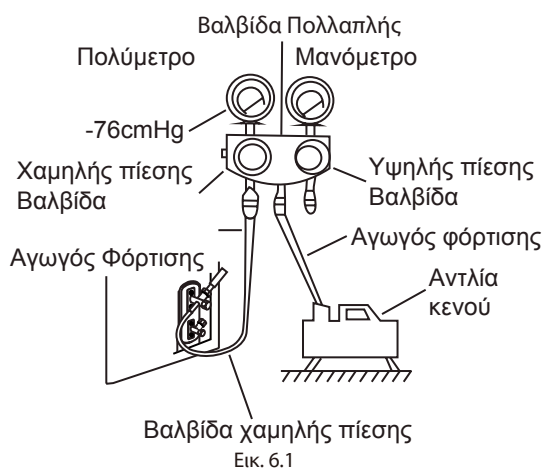
Η εξαέρωση θα πρέπει να πραγματοποιείται κατά την αρχική εγκατάσταση και όταν η μονάδα μετακινείται σε άλλο μέρος.

ΠΡΙΝ ΠΡΑΓΜΑΤΟΠΟΙΗΣΕΤΕ ΤΗΝ ΕΞΑΕΡΩΣΗ

- ☒ Ελέγξτε ότι και η υψηλή και η χαμηλή πίεση των αγωγών μεταξύ εσωτερικής και εξωτερικής μονάδας είναι συνδεδεμένες σε πλήρη συμφωνία με την ενότητα Σύνδεση Αγωγών Ψυκτικού Μέσου αυτού του εγχειριδίου.
- ☒ Ελέγξτε ότι όλες οι καλωδιώσεις είναι συνδεδεμένες σωστά.

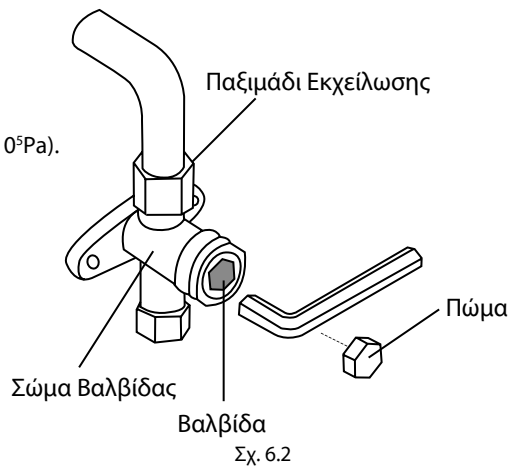
Οδηγίες Εξαέρωσης

Πριν χρησιμοποιήσετε τη βαλβίδα πολλαπλής και την αντλία κενού, διαβάστε τα εγχειρίδια λειτουργίας.



1. Συνδέστε τον αγωγό φόρτισης της βαλβίδας πολλαπλής στο άκρο φόρτισης της βαλβίδας χαμηλής πίεσης της εξωτερικής μονάδας.
2. Συνδέστε τον αγωγό φόρτισης της βαλβίδας πολλαπλής στην αντλία κενού.

3. Ανοίξτε τη πλευρά Χαμηλής Πίεσης της πολλαπλής βαλβίδας. Κρατήστε τη πλευρά Υψηλής Πίεσης κλειστή.
4. Ενεργοποιήστε την αντλία κενού ώστε να εξαερώσετε το σύστημα.
5. Ενεργοποιήστε την αντλία κενού για τουλάχιστον 15 λεπτά ή έως ότου η ένωση των μετρήσεων δείξει -76cmHG (-10^5Pa).
6. Κλείστε τη πλευρά Χαμηλής Θέρμανσης της πολλαπλής βαλβίδας και απενεργοποιήστε την αντλία κενού.
7. Αναμείνετε για 5 λεπτά, μετά ελέγξτε ότι δεν υπάρχει αλλαγή στη πίεση του συστήματος.
8. Αν υπάρχει αλλαγή στη πίεση του συστήματος, ανατρέξτε στην ενότητα Έλεγχος Διαρροής Ρευστού για πληροφορίες σχετικές με το πώς ελέγχουμε για τυχόν διαρροή. Αν δεν υπάρχει αλλαγή στη πίεση του συστήματος, ξεβιδώστε το πώμα από την βαλβίδα υψηλής πίεσης.
9. Βάλτε το εξάγωνο κλειδί στη βαλβίδα (υψηλής πίεσης) και ανοίξτε τη βαλβίδα γυρνώντας το κλειδί σε $1/4$ περιστροφή δεικτών ρολογιού. Ακούστε το αέριο να αποβάλλεται από το σύστημα και μετά από 5 δευτερόλεπτα κλείστε τη βαλβίδα.
10. Παρατηρήστε το Μανόμετρο Πίεσης για ένα λεπτό να βεβαιωθείτε ότι δεν υπάρχει αλλαγή στη πίεση. Το μανόμετρο θα πρέπει να δείχνει τιμή ελάχιστα υψηλότερη της ατμοσφαιρικής πίεσης.



11. Αφαιρέστε τον αγωγό τροφοδοσίας από τη θύρα επισκευής.
12. Χρησιμοποιήστε εξάγωνο κλειδί και ανοίξτε τέρμα και τις δυο βαλβίδες υψηλής και χαμηλής πίεσης.
13. Σφίξτε και τις τρεις βαλβίδες (θύρα επισκευής, υψηλής πίεσης χαμηλής πίεσης) χειροκίνητα. Για παραπάνω σφίξιμο μπορείτε να χρησιμοποιήσετε μηχανικό κλειδί, αν χρειαστεί.

! ΑΝΟΙΞΤΕ ΠΡΟΣΕΚΤΙΚΑ ΤΙΣ ΒΑΛΒΙΔΕΣ

Όταν ανοίγετε τις βαλβίδες, γυρίστε το εξάγωνο κλειδί μέχρι να τερματίσει. Μην προσπαθήσετε να ασκήσετε παραπάνω δύναμη για περισσότερο άνοιγμα.

Σημείωση στη Προσθήκη Ψυκτικού Υγρού

Ορισμένα συστήματα προϋποθέτουν παραπάνω πρόσθεση ψυκτικού μέσου σύμφωνα με τα μήκη των αγωγών. Το κανονικό μήκος αγωγών ποικίλει σύμφωνα με τους τοπικούς κανονισμούς. Για παράδειγμα, στη Νότια Αμερική, το κανονικό μήκος αγωγού είναι 7.5m (25'). Σε άλλες περιοχές, το κανονικό μήκος είναι 5m (16'). Η προσθήκη ψυκτικού μπορεί να υπολογιστεί ακολουθώντας την παρακάτω φόρμα:

ΠΡΟΣΘΗΚΗ ΨΥΚΤΙΚΟΥ ΜΕΣΟΥ ΓΙΑ ΚΑΘΕ ΜΗΚΟΣ ΑΓΩΓΟΥ

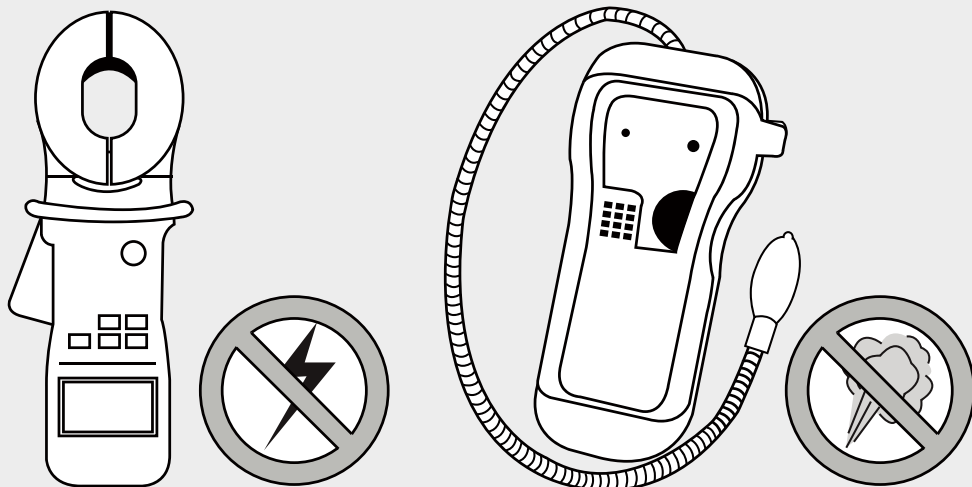
Μήκος Αγωγού Σύνδεσης (m)	Μέθοδος Απομάκρυνσης Αέρα	Προσθήκη Ψυκτικού Μέσου	
≤ Standard pipe length	Αντλία Κενού	N/A	
> Standard pipe length	Αντλία Κενού	Γραμμή Ρευστού: Ø 6.35 (ø 0.25") R22: (Μήκος Αγωγού- Κανονικό μήκος) x 30g/m (Μήκος Αγωγού- Κανονικό μήκος) x 0.32oz/ft	Γραμμή Ρευστού: Ø 9.52 (ø 0.375") R22: (Μήκος Αγωγού- Κανονικό μήκος) x 60g/m (Μήκος Αγωγού- Κανονικό μήκος) x 0.64oz/ft
		Inverter R410A: (Μήκος Αγωγού- Κανονικό μήκος) x 15g/m (Μήκος Αγωγού- Κανονικό μήκος) x 0.16oz/ft	Inverter R410A: (Μήκος Αγωγού- Κανονικό μήκος) x 30g/m (Μήκος Αγωγού- Κανονικό μήκος) x 0.32oz/ft
		Σταθερή Συχνότητα R410A: (Μήκος Αγωγού- Κανονικό μήκος) x 20g/m (Μήκος Αγωγού- Κανονικό μήκος) x 0.21oz/ft	Σταθερή Συχνότητα R410A: (Μήκος Αγωγού- Κανονικό μήκος) x 40g/m (Μήκος Αγωγού- Κανονικό μήκος) x 0.42oz/ft

! ΠΡΟΣΟΧΗ

ΜΗΝ αναμιγνύετε τύπους ψυκτικών μέσων.

Έλεγχος Ηλεκτρολογικής Διαρροής και Διαρροής Αερίου

8



Έλεγχος Ηλεκτρολογικής Ασφάλειας

Μετά την εγκατάσταση, επιβεβαιώστε ότι όλες οι ηλεκτρολογικές καλωδιώσεις είναι σε πλήρη συμφωνία με τις τοπικές και εθνικές προδιαγραφές και σύμφωνα με το Εγχειρίδιο Εγκατάστασης.

ΠΡΙΝ ΤΗ ΔΟΚΙΜΑΣΤΙΚΗ ΛΕΙΤΟΥΡΓΙΑ

Ελέγξτε τη καλωδίωση της γείωσης.
Μετρήστε την αντίσταση της γείωσης με γυμνό μάτι και με ελεγκτή αντίστασης γείωσης. Θα πρέπει να είναι λιγότερο από 4.

Σημείωση: Αυτό μπορεί να μην είναι προϋπόθεση για κάποιες περιοχές στην Αμερική.

ΚΑΤΑ ΤΗ ΔΙΑΡΚΕΙΑ ΔΟΚΙΜΑΣΤΙΚΗΣ ΛΕΙΤΟΥΡΓΙΑΣ

Έλεγχος για Ηλεκτρολογική Διαρροή
Κατά τη διάρκεια της Δοκιμαστικής Λειτουργίας, χρησιμοποιήστε δοκιμαστικό κατσαβίδι και πολύμετρα να πραγματοποιήσετε έλεγχο διαρροής ρευστού.

Αν διαγνωθεί ηλεκτρολογική διαρροή, απενεργοποιήστε τη μονάδα αμέσως και καλέστε εξουσιοδοτημένο ηλεκτρολόγο να βρείτε και να επιλύσετε τα αίτια της διαρροής.

Σημείωση: Αυτό μπορεί να μην χρειάζεται σε κάποιες περιοχές στην Αμερική.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ- ΚΙΝΔΥΝΟΣ ΓΙΑ ΗΛΕΚΤΡΟΠΛΗΞΙΑ

ΟΛΕΣ ΟΙ ΚΑΛΩΔΙΩΣΕΙΣ ΠΡΕΠΕΙ ΝΑ ΕΙΝΑΙ ΣΕ ΠΛΗΡΗ ΣΥΜΦΩΝΙΑ ΜΕ ΤΟΥΣ ΤΟΠΙΚΟΥΣ ΚΑΙ ΕΘΝΙΚΟΥΣ ΗΛΕΚΤΡΟΛΟΓΙΚΟΥΣ ΚΑΝΟΝΙΣΜΟΥΣ ΚΑΙ ΘΑ ΠΡΕΠΕΙ ΝΑ ΕΓΚΑΤΑΣΤΑΘΟΥΝ ΑΠΟ ΕΞΟΥΣΙΟΔΟΤΗΜΕΝΟ ΗΛΕΚΤΡΟΛΟΓΟ.

Έλεγχος Διαρροής Αερίου

Υπάρχουν δυο διαφορετικοί τρόποι να ελέγξετε για διαρροή ρευστού ή αερίου.

Μέθοδος με σαπούνι και νερό
Χρησιμοποιήστε μαλακή βούρτσα, εφαρμόστε σαπουνοδιάλυμα ή ουδέτερο απορρυπαντικό σε όλα τα σημεία σύνδεσης των αγωγών στην εσωτερική και εξωτερική μονάδα. Αν εμφανιστούν φυσαλίδες σημαίνει ότι υπάρχει διαρροή.
Μέθοδος Ανίχνευσης Διαρροής
Αν χρησιμοποιείτε ελεγκτή διαρροής, ανατρέξτε στο εγχειρίδιο λειτουργίας του μηχανήματος για περισσότερες λεπτομέρειες χρήσης.

ΑΦΟΤΟΥ ΠΡΑΓΜΑΤΟΠΟΙΗΣΕΤΕ ΔΙΑΡΡΟΗ ΑΕΡΙΟΥ

Αφότου επιβεβαιώσετε ότι όλα τα σημεία σύνδεσης των αγωγών δεν παρουσιάζουν διαρροές, αντικαταστήστε το κάλυμμα βαλβίδας στην εξωτερική μονάδα

Πριν τη Δοκιμαστική Λειτουργία

Πραγματοποιήστε δοκιμαστικό έλεγχο μόνο αφότου έχετε ολοκληρώσει τα ακόλουθα βήματα:

- Έλεγχος Ασφαλείας Ηλεκτρικών: Επιβεβαιώστε ότι το ηλεκτρολογικό σύστημα της μονάδας είναι ασφαλές και λειτουργεί σωστά.
- Έλεγχος Διαρροής Αερίου: Ελέγξτε τα παξιμάδια επιμήκυνσης στις συνδέσεις των αγωγών και επιβεβαιώστε ότι το σύστημα δεν παρουσιάζει διαρροές.
- Επιβεβαιώστε ότι οι βαλβίδες αερίου και ρευστού (υψηλή και χαμηλή πίεση) είναι εντελώς ανοιχτές.

Οδηγίες Δοκιμαστικής Λειτουργίας

Θα πρέπει να πραγματοποιήσετε τη Δοκιμαστική Λειτουργία για τουλάχιστον 30 λεπτά.

1. Συνδέστε τη μονάδα στο ρεύμα.
2. Πατήστε το κουμπί ON/OFF στο τηλεχειριστήριο να το ενεργοποιήσετε.
3. Πατήστε το κουμπί MODE να περιγηθείτε στις ακόλουθες λειτουργίες, μια τη φορά:
 - ΨΥΞΗ- Επιλέξτε τη χαμηλότερη δυνατή θερμοκρασία
 - ΘΕΡΜΑΝΣΗ- Επιλέξτε την υψηλότερη δυνατή θερμοκρασία
4. Αφήστε κάθε λειτουργία να πραγματοποιηθεί για 5 λεπτά και πραγματοποιήστε τους ακόλουθους ελέγχους:

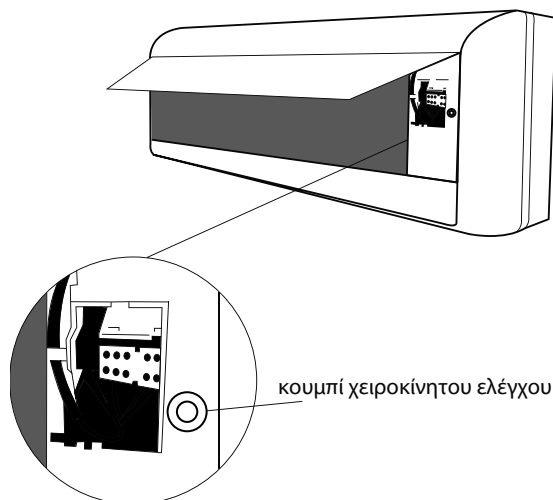
Λίστα Πραγματοποίησης Ελέγχων	ΠΕΡΑΣΕ / ΑΠΕΤΥΧΕ	
Δεν υπάρχει ηλεκτρολογική διαρροή		
Η μονάδα είναι σταθερά εδραιωμένη		
Όλες οι ηλεκτρολογικές απολήξεις είναι σωστά καλυμμένες		
Η εσωτερική και εξωτερική μονάδα είναι σταθερά εγκατεστημένες.		
Όλα τα σημεία σύνδεσης του αγωγού δεν παρουσιάζουν διαρροές	Εξωτερική μονάδα (2):	Εσωτερική μονάδα (2):
Το νερό αποστραγγίζεται επαρκώς από τον αγωγό αποστράγγισης		
Όλοι οι αγωγοί είναι επαρκώς μονωμένοι		
Η μονάδα πραγματοποιεί την λειτουργία ΨΥΞΗΣ σωστά		
Η μονάδα πραγματοποιεί την λειτουργία ΘΕΡΜΑΝΣΗΣ σωστά		
Οι εσωτερικές περσίδες περιστρέφονται σωστά		
Η εσωτερική μονάδα ανταποκρίνεται στο τηλεχειριστήριο		

ΔΙΠΛΟΣ ΕΛΕΓΧΟΣ ΣΥΝΔΕΣΗΣ ΑΓΩΓΟΥ

Κατά τη λειτουργία, η πίεση του ψυκτικού κύκλου θα αυξηθεί. Αυτό μπορεί να προκαλέσει διαρροή ρευστού που δεν υπήρχε στον αρχικό έλεγχο διαρροών. Πάρτε χρόνο να ελέγξετε διπλά πως όλα τα σημεία του αγωγού ψυκτικού μέσου δεν έχουν διαρροές. Ανατρέξτε στην ενότητα Έλεγχος Διαρροής Ρευστού για οδηγίες.

5. Αφότου η Δοκιμαστική Λειτουργία πραγματοποιηθεί με επιτυχία και επιβεβαιώσετε ότι όλα τα σημεία στη Λίστα Ελέγχου έχουν γίνει, ακολουθήστε τα παρακάτω:

- Χρησιμοποιήστε το τηλεχειριστήριο να αλλάξετε τη θερμοκρασία της μονάδας σε φυσιολογική.
- Χρησιμοποιήστε μονωτική ταινία να τυλίξετε τους εσωτερικούς αγωγούς του ψυκτικού μέσου που μπορεί να αφήσετε ακάλυπτους κατά τη διάρκεια εγκατάσταση της εσωτερικής μονάδας.



Σχ. 8.1

ΑΝ Η ΘΕΡΜΟΚΡΑΣΙΑ ΔΩΜΑΤΙΟΥ ΕΙΝΑΙ ΚΑΤΩ ΑΠΟ 17°C (63°F)

Δεν μπορείτε να χρησιμοποιήσετε το τηλεχειριστήριο να ενεργοποιήσετε τη λειτουργία ΨΥΞΗΣ όταν τη θερμοκρασία περιβάλλοντος είναι κάτω από 17°C. Σε αυτή τη περίπτωση, μπορείτε να χρησιμοποιήσετε το κουμπί MANUAL CONTROL ώστε να ελέγξετε τη λειτουργία ΨΥΞΗΣ.

- Ανασηκώστε το μπροστινό πάνελ της εσωτερικής μονάδας και ανεβάστε το έως ότου ακουστεί το κλικ του κουμπώματος.
- Το χειροκίνητο κουμπί ελέγχου είναι τοποθετημένο στη δεξιά πλευρά της μονάδας. Πατήστε το 2 φορές ώστε να επιλέξετε την λειτουργία ΨΥΞΗΣ. Δείτε το Σχ. 8.1 .
- Πραγματοποιήστε τη Δοκιμαστική Λειτουργία.

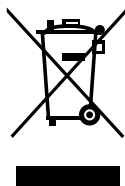
Αυτή η συσκευή περιέχει ψυκτικό υγρό και άλλα πιθανώς επικίνδυνα υλικά. Όταν θέλετε να απορρίψετε αυτή τη συσκευή, ο νόμος προϋποθέτει ειδική περισυλλογή και μεταχείριση. ΜΗΝ απορρίψετε αυτό το προϊόν όπως τα οικιακά ή δημοτικά απορρίματα.

Όταν απορρίψετε αυτή τη συσκευή, ακολουθήστε τα παρακάτω:

- Απορρίψτε τη συσκευή στους ειδικά διαμορφωμένους ηλεκτρονικούς κάδους απόρριψης.
- Όταν αγοράζετε νέα συσκευή, ο έμπορος θα πάρει την παλιά συσκευή χωρίς χρέωση.
- Ο κατασκευαστής θα πάρει πίσω τη παλιά συσκευή χωρίς χρέωση.
- Πουλήστε τη συσκευή σε πιστοποιημένο έμπορο άχρηστων μετάλλων.

Ειδική Σημείωση

Η απόρριψη αυτής της συσκευής στα δάση ή σε άλλα φυσικά περιβάλλοντα θέτει σε κίνδυνο την υγεία και είναι βλαβερή για το περιβάλλον. Επικίνδυνες ουσίες μπορεί να διαρρεύσουν στα υπόγεια ύδατα και να εισχωρήσουν στη τροφική αλυσίδα.

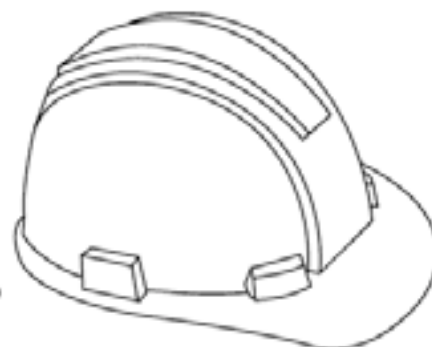


Ο σχεδιασμός και οι προδιαγραφές μπορεί να αλλάξουν χωρίς σχετική ενημέρωση για τη βελτιστοποίηση του προϊόντος. Συμβουλευτείτε τον πωλητή σας ή τον κατασκευαστή για λεπτομέρειες.

Cuprins

Manual de Instalare

0	Măsuri de siguranță	4
1	Accesorii	6
2	Sumar instalare – Unitate interioară...	8
3	Componente aparat	10



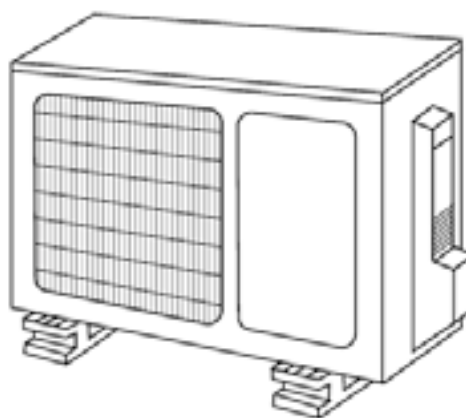
4 Instalare unitate interioară 11

1. Alegere locație pentru instalare	11
2. Atașare placă de montare pe perete.....	12
3. Realizare orificiu perete pentru conducte	12
4. Pregătire conducte de agent frigorific	14
5. Conectare furtun de scurgere	15
6. Conectare cablu pentru semnal	16
7. Înfășurare conducte și cabluri	18
8. Conectare cablu electric de la interior	18
9. Montare unitate interioară.....	18



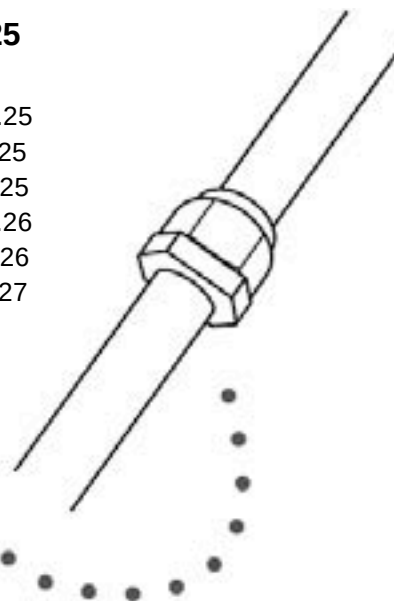
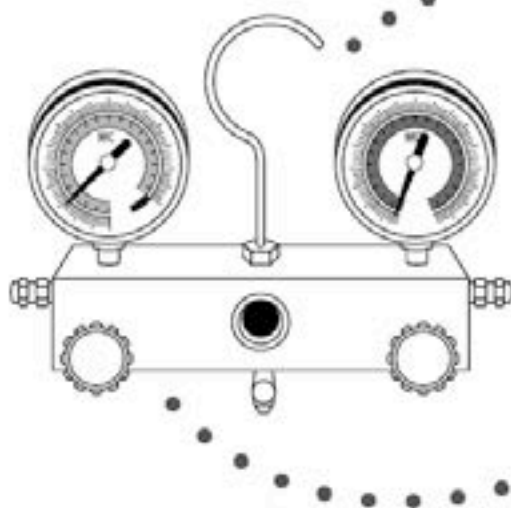
5 Instalare unitate exterioară 20

1. Alegere locație pentru instalare	20
2. Instalare racord scurgere.....	21
3. Ancorare unitate exterioară	22
4. Conectare cablu semnal și cablu electric	23



6 Conectare conductă agent frigorific 25

- A. Notă cu privire la lungimea conductei.....25
- B. Instrucțiuni de conectare – Conducte agent frigorific25
 - 1. Tăiere țeavă25
 - 2. Îndepărtare bavură.....26
 - 3. Capete conductă expandată26
 - 4. Legare conducte.....27



7 Evacuare aer 29

- 1. Instrucțiuni evacuare29
- 2. Notă cu privire la suplimentare agent frigorific.....30

8 Verificări electrice și de scurgere gaze.....31

9 Testare funcționare.....32

10 Dispoziții europene pentru eliminare.....34



Măsuri de siguranță

Citiți măsurile de siguranță înainte de instalare

Instalarea incorectă datorată ignorării instrucțiunilor poate duce la daune însemnate sau vătămare serioasă. Gradul de seriozitate al potențialelor daune sau vătămări este clasificat fie ca AVERTIZARE fie ca ATENȚIONARE.



Acest simbol indică faptul că ignorarea instrucțiunilor poate duce la deces sau vătămare serioasă.



Acest simbol indică faptul că ignorarea instrucțiunilor poate duce la vătămare moderată a unei persoane sau daune asupra aparatului sau a bunurilor.



Acest simbol indică faptul că nu trebuie niciodată să realizați acțiunea indicată.



AVERTIZARE

- ⊘ Nu modificați lungimea cablului de alimentare electrică sau nu utilizați un prelungitor pentru alimentarea aparatului. Nu împărțiți aceeași priză cu alte aparate. O alimentare electrică neadecvată sau insuficientă poate duce la incendiu sau electrocutare.
- ⊘ La conectarea conductei de agent frigorific, nu permiteți substanțelor sau gazelor în afară de cele specificate ca și agent frigorific să pătrundă în aparat. Prezența altor gaze sau substanțe va scădea capacitatea aparatului și va cauza o presiune anormală în ciclul agentului frigorific. Acest lucru poate duce la explozie și vătămare.
- ⊘ Nu permiteți copiilor să se joace cu aparatul de aer condiționat. Copiii trebuie supravegheați în preajma aparatului întotdeauna.
 1. Instalația trebuie realizată de către un dealer autorizat sau un specialist. O instalație defectuoasă poate duce la scurgeri de apă, electrocutare sau incendiu.
 2. Instalarea trebuie realizată conform cu instrucțiunile de instalare. Instalarea neadecvată poate duce la scurgeri de apă, electrocutare sau incendiu.
(În America de Nord, instalarea trebuie realizată în conformitate cu cerințele NEC și CEC și doar de către personal autorizat)
 3. Contactați un tehnician de service autorizat pentru repararea sau mentenanța acestui aparat.
 4. Utilizați doar accesoriile și componentele incluse, componentele specificate pentru instalare. Utilizarea componentelor ce nu corespund standardelor pot duce la scurgeri de apă, electrocutare, incendiu și pot duce la defectarea aparatului.
 5. Instalați aparatul într-o locație solidă ce poate susține greutatea unității. Dacă locația aleasă nu poate susține greutatea unității sau dacă instalarea nu este realizată adecvat, aparatul poate cădea și poate duce la vătămare serioasă sau daune.
 6. Pentru lucrările electrice, respectați standardele, reglementările de cablare locale și naționale precum și acest manual de instalare. Trebuie să utilizați un circuit independent și o singură priză pentru alimentare electrică. Nu conectați alte aparate la aceeași priză. O capacitate electrică insuficientă sau defecte ale lucrărilor electrice pot duce la electrocutare sau incendiu.



AVERTIZARE

7. Pentru toate lucrările electrice, folosiți cablurile specificate. Conectați în mod sigur cablurile și prindeți-le cu clemă pentru a preveni ca forțe din exterior să avarieze terminalul. Legăturile electrice neadecvate pot duce la supraîncălzire și pot cauza incendii sau electrocutare.
8. Toate cablajele trebuie aranjate adecvat pentru a asigura închiderea adecvată a capacului panoului de control. Dacă acest capac al panoului de control nu este bine închis, acest lucru poate duce la coroziune și poate cauza ca punctele de legătură de pe terminal să se încingă, să se aprindă sau să cauzeze electrocutare.
9. În anumite medii funcționale de genul bucătăriilor, camerelor pentru servere, etc. utilizarea unor aparate de aer condiționat speciale este recomandată.



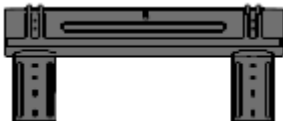
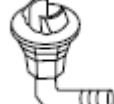
ATENȚIONARE

- ⊘ Pentru aparatele care au un radiator suplimentar, nu instalați aparatul la o distanță mai mică de 1 m (3 picioare) de orice materiale combustibile.
 - ⊘ Nu instalați aparatul într-o locație ce poate fi expusă scurgerilor de gaze inflamabile. Dacă se acumulează gaze inflamabile în jurul aparatului, acest lucru poate duce la incendiu.
 - ⊘ Nu puneți în funcțiune aparatul de aer condiționat într-o cameră cu umiditate mare de genul unei băi sau unei spălătorii. Expunerea excesivă la apă poate duce la un scurtcircuit al componentelor electrice.
1. Produsul trebuie să fie adecvat împământat în momentul instalării, în caz contrar poate apărea electrocutare.
 2. Instalați conducta de scurgere adecvat conform cu instrucțiunile din acest manual. O scurgere improprie poate duce la daune cauzate de apă asupra casei sau bunurilor dvs.

Mai multe informații despre gazele florinate

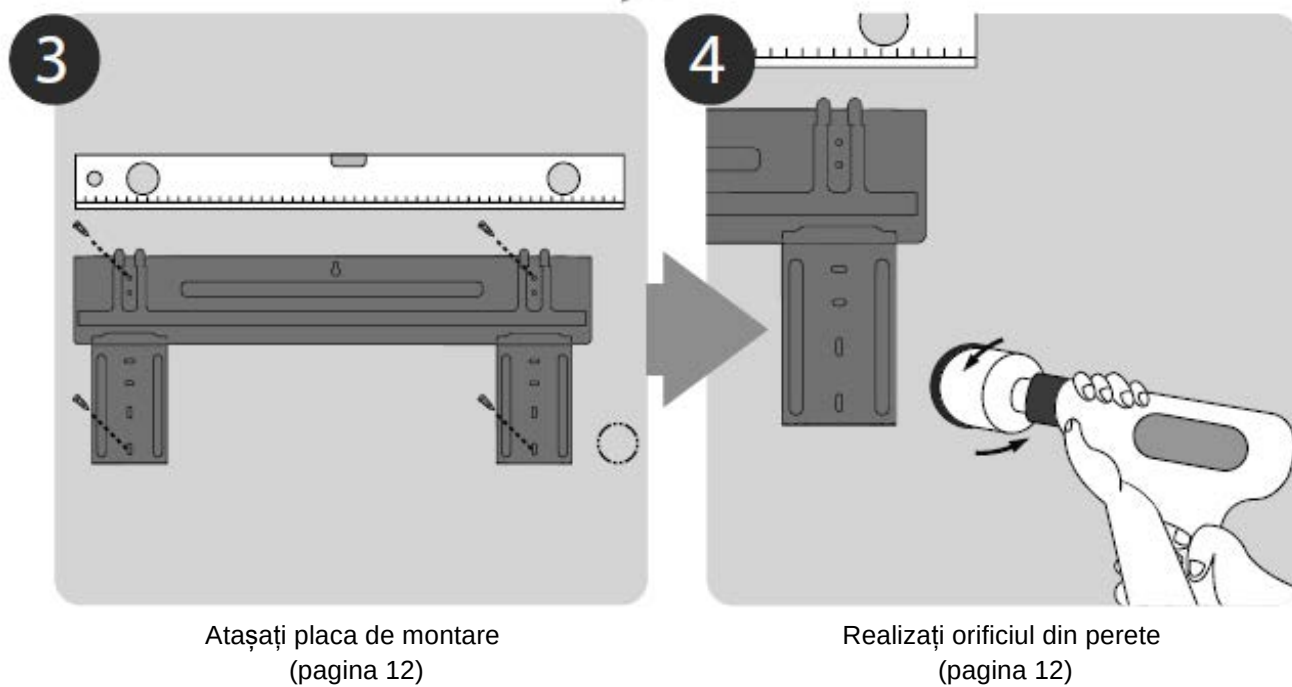
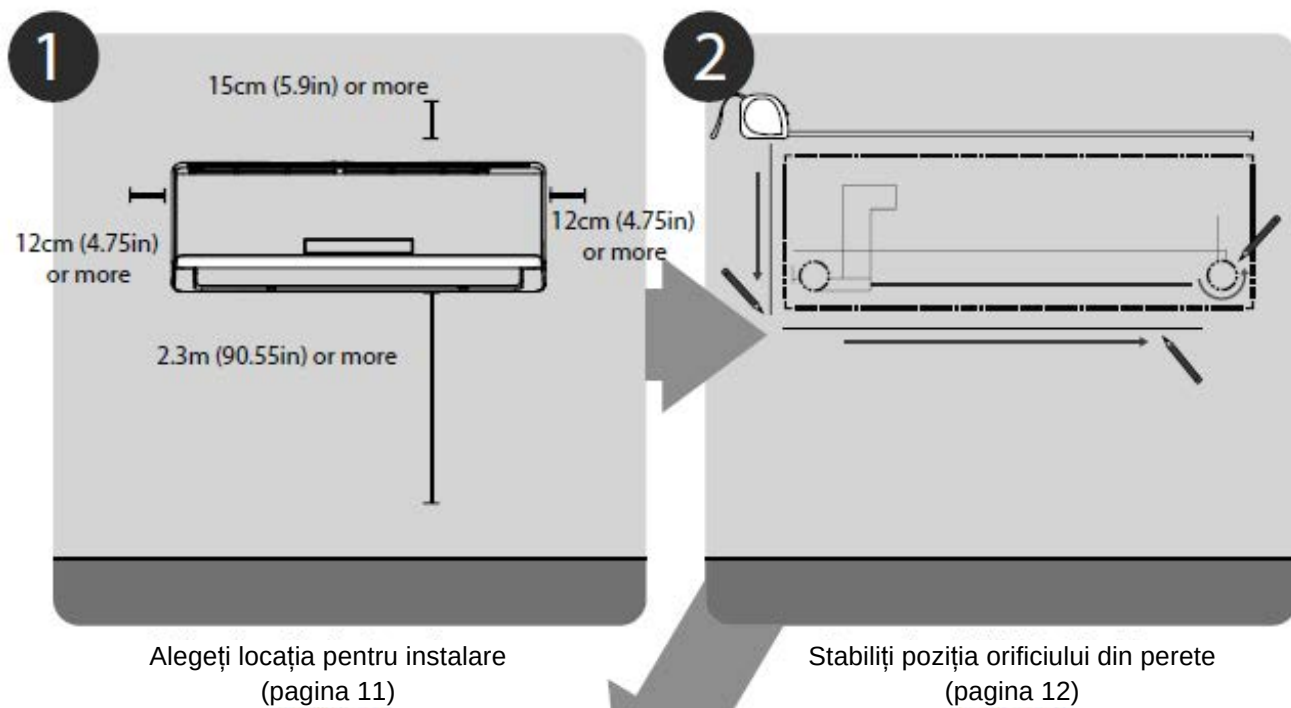
1. Acest aparat de aer condiționat conține gaze florinate. Pentru informații specifice cu privire la tipul de gaz și cantitatea acestuia, vă rugăm consultați eticheta corespunzătoare de pe aparat.
2. Instalarea, repararea, și întreținerea acestui aparat trebuie realizate de către un tehnician calificat.
3. Dezinstalarea produsului și reciclarea trebuie realizate de către un tehnician calificat.
4. Dacă sistemul cuprinde un sistem de detectare a scurgerilor, acesta trebuie să verifice scurgerile cel puțin odată la 12 luni.
5. Atunci când aparatul este verificat pentru scurgeri, păstrarea adecvată a documentelor de verificare este recomandată.

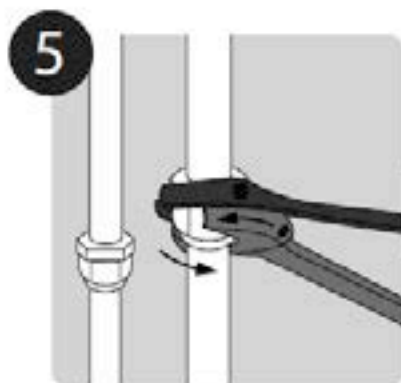
Aparatul de aer condiționat este livrat însoțit de următoarele accesorii. Utilizați toate componentele de instalare și accesoriile pentru instalarea aparatului de aer condiționat. O instalare neadecvată poate duce la scurgeri de apă, electrocutare și incendiu sau poate cauza defectarea echipamentului.

Denumire	Formă	Cantitate	
Placă de montare		1	
Diblu pentru ancorare		5	
Șurub de fixare placă montare ST3,9 x 25		5	
Telecomandă		1	
Șuruburi de fixare pentru suport telecomandă ST2,9 x 10		2	Componente opționale
Suport telecomandă		1	
Baterii uscate AAA LR03		2	
Filtru de îmbrospătare aer		1	
Garnitură		1 (doar pentru modelele cu răcire și încălzire)	
Racord de scurgere			

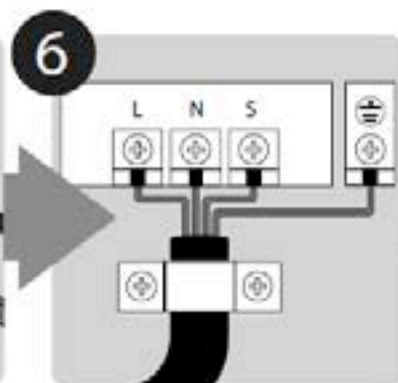
Denumire	Formă	Cantitate
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Manual de utilizare			
Manual de instalare			
Manual pentru telecomandă			
Sistem de conectare țeavă	Partea lichidă	Ø 6,35 (1/4in)	Componente ce trebuie achiziționate. Consultați dealerul în legătură cu dimensiunea conductei.
		Ø 9,52 (3/8in)	
	Partea gazoasă	Ø 9,52 (3/8in)	
		Ø 12,7 (1/2in)	
		Ø 16 (5/8in)	

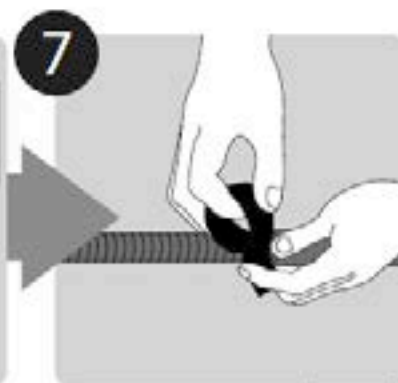




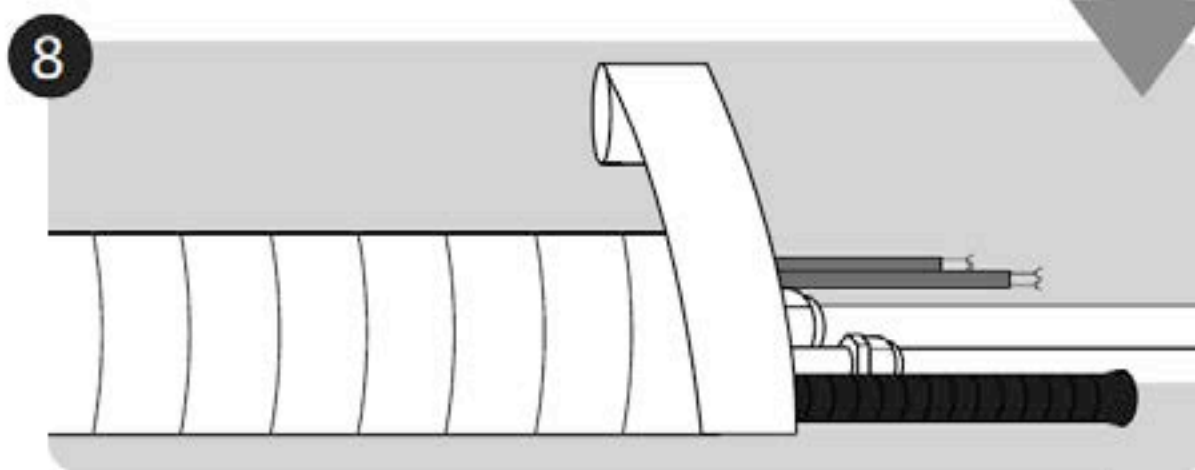
5
Conectați țeava
(pagina 25)



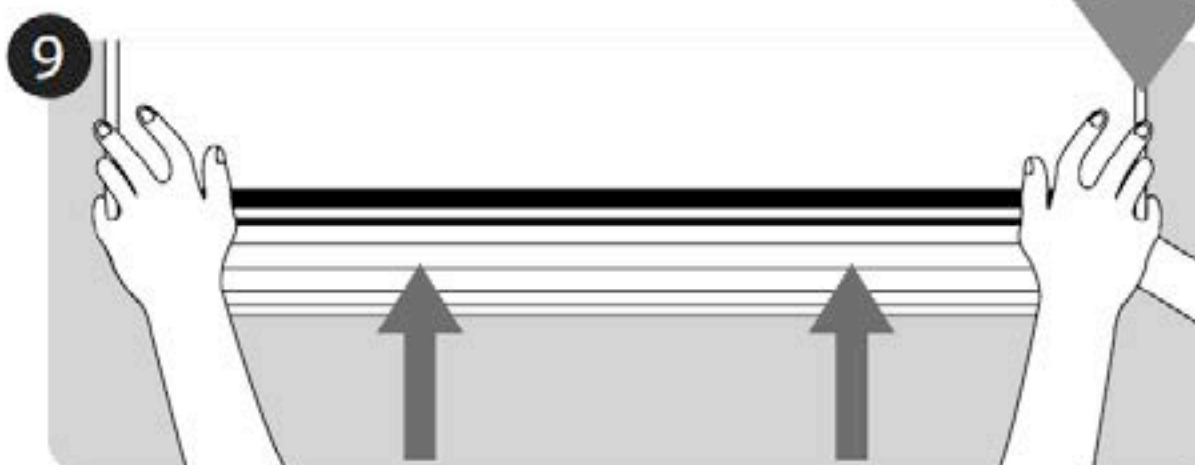
6
Conectați cablurile
(pagina 17)



7
Pregătiți furtunul de
scurgere (pagina 14)



8
Înveliți conductele și cablurile
(pagina 18)



9
Montați unitatea interioară
(pagina 18)

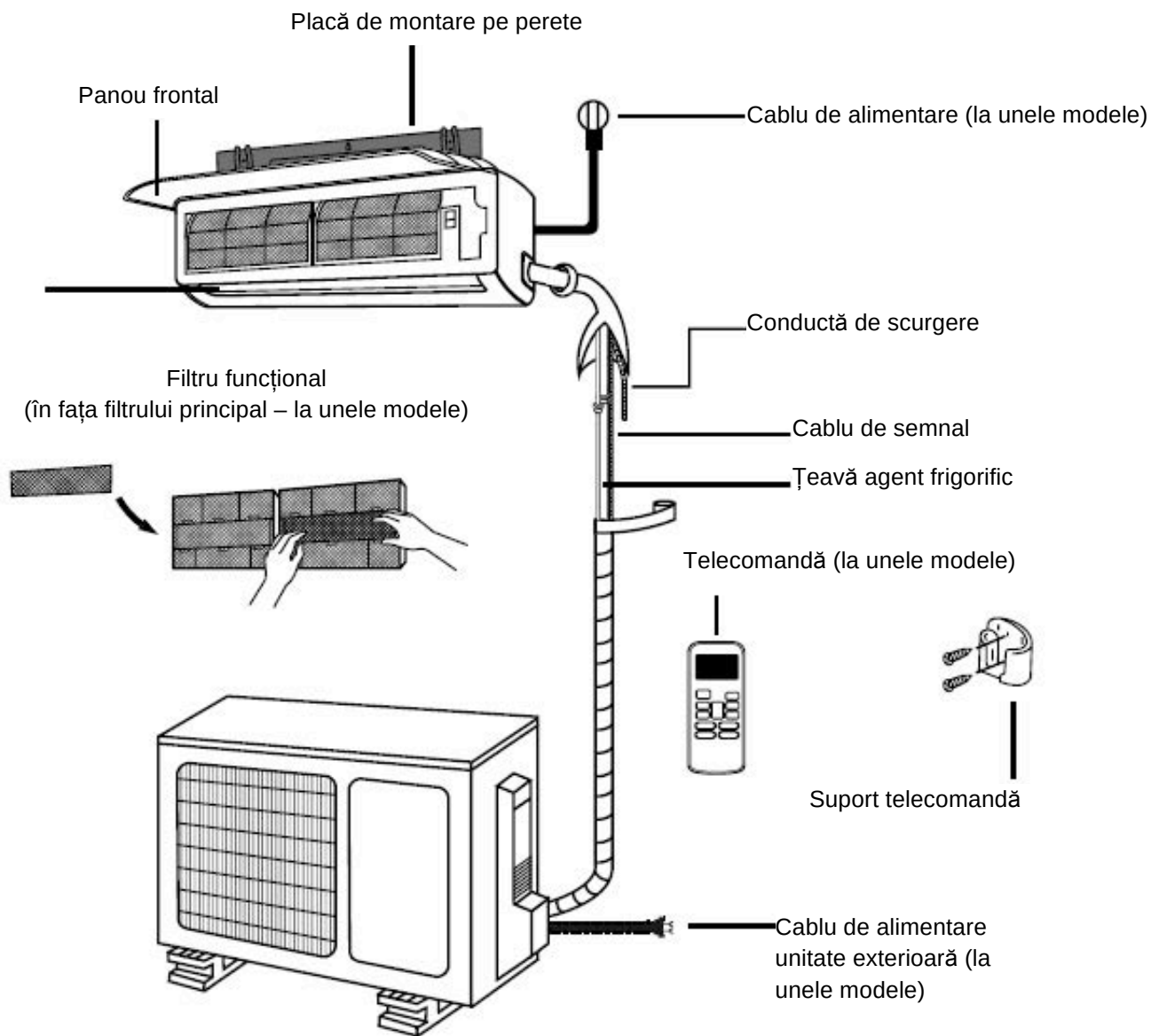
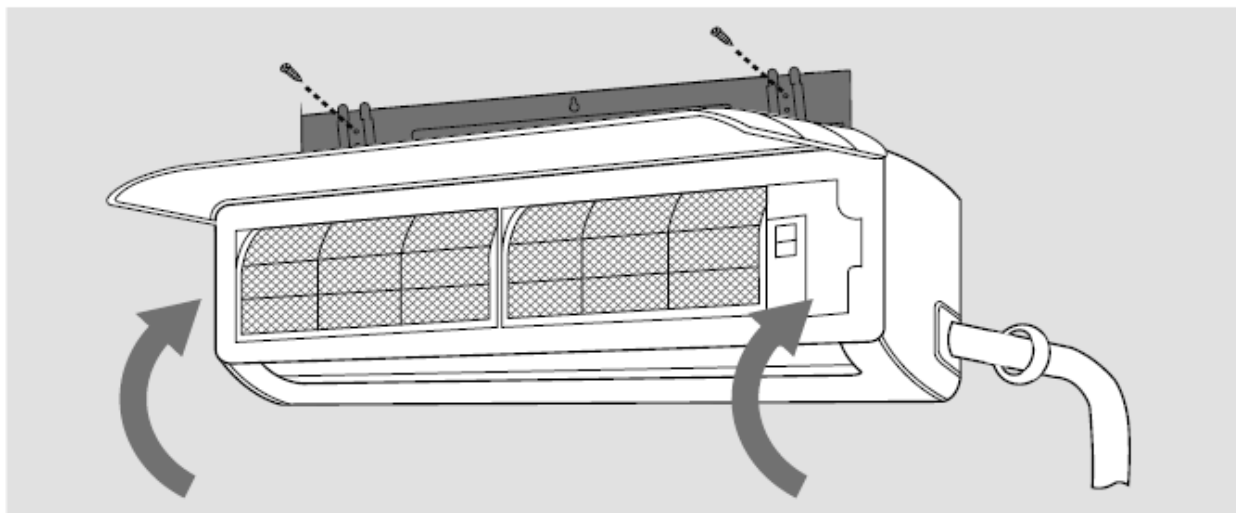


Fig. 2.1

NOTĂ CU PRIVIRE LA ILUSTRAȚII

Ilustrațiile din prezentul manual au doar scop de exemplificare. Forma reală a unității interioare poate fi ușor diferită. Forma reală va fi cea care va fi luată în considerare.



Instrucțiuni instalare – unitate interioară

ÎNAINTE DE INSTALARE

Înainte de instalarea unității interioare, consultați eticheta de pe cutia produsului pentru a vă asigura că numărul modelului unității interioare se potrivește cu numărul modelului unității exterioare.

Etape 1: Alegere locație pentru instalare

Înainte de a instala unitatea interioară, trebuie să alegeți o locație adecvată. Următoarele reprezintă standarde ce vă vor ajuta în alegerea unei locații adecvate pentru aparat.

Locațiile adecvate pentru instalare trebuie să îndeplinească următoarele condiții:

- ☒ O circulație bună a aerului
- ☒ O scurgere convenabilă
- ☒ Zgomotul produs de aparat nu va deranja alți oameni
- ☒ Un loc ferm și solid – locația nu va vibra
- ☒ Destul de solidă pentru a suporta greutatea aparatului
- ☒ O locație la cel puțin 1 m distanță de toate dispozitivele electrice (de exemplu televizor, aparat radio, calculator)

NU instalați aparatul în următoarele locații:

- ∅ În apropierea unei surse de căldură, aburi sau gaze inflamabile
- ∅ În apropierea elementelor inflamabile de genul perdelelor sau hainelor
- ∅ În apropierea obstacolelor ce pot bloca circularea aerului
- ∅ Aproape de ușă
- ∅ Într-o locație supusă luminii directe a soarelui

NOTĂ CU PRIVIRE LA ORIFICIUL DIN PERETE:

Dacă nu există conducte de agent frigorific fix e:

Atunci când alegeți o locație, vă rugăm să țineți cont de faptul că trebuie să lăsați spațiu suficient pentru un orificiu în perete (consultați etapa realizare orificiul în perete pentru conectare conducte) pentru cablul de semnal și conducta de agent frigorific ce leagă unitățile interioare și exterioare. Poziția implicită pentru toate conductele este pe partea dreaptă a unității interioare (atunci când vă uitați la aparat). Însă, aparatul poate suporta și legarea conductelor pe stânga sau pe dreapta.

Consultați următoarea schemă pentru a asigura distanța adecvată de la tavan și de la pereți:

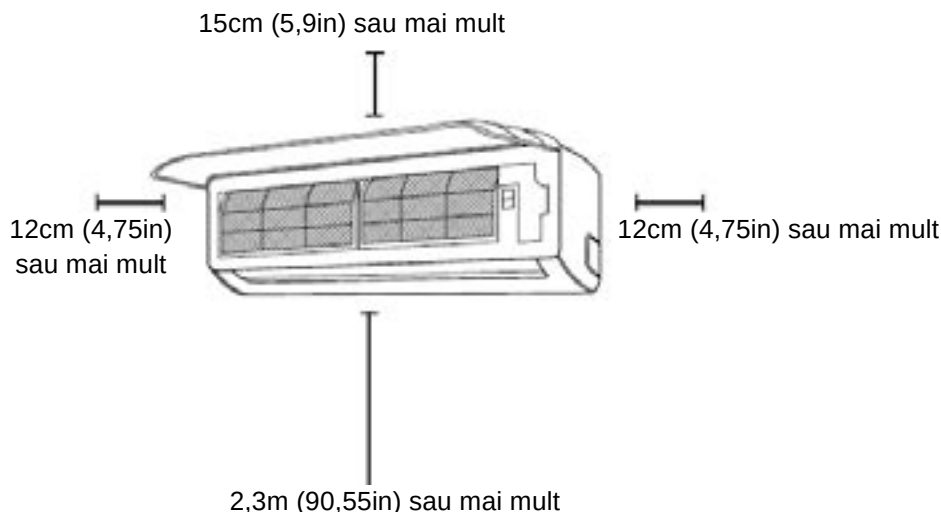


Fig. 3.1

Etapa 2: Atașare placă de montare pe perete

Placa de montare este dispozitivul pe care veți monta unitatea interioară.

1. Îndepărtați șurubul care atașează placa de montare la partea din spate a unității interioare.
2. Amplasați placa de montare pe perete într-o locație care întrunește standardele din etapa alegerii locației de instalare. (Consultați secțiunea Dimensiunile Plăcii de Montare pentru informații detaliate cu privire la dimensiunile plăcii de montare).
3. Realizați orificii pentru șuruburile de montare în locurile în care:
 - au bolțuri și pot susține greutatea unității
 - corespund orificiilor pentru șuruburi din placa de montare
4. Asigurați placa de montare de perete cu șuruburile incluse.
5. Asigurați-vă că placa de montare este dreaptă pe perete.

NOTĂ CU PRIVIRE LA PEREȚI DE BETON SAU DIN CĂRĂMIDĂ:

Dacă peretele este din cărămidă, beton sau material asemănător, realizați găuri de 5mm diametru (0,2 diametru) în perete și introduceți diblurile incluse. Apoi asigurați placa de montare de perete prin strângerea șuruburilor direct în dibluri.

Etapa 3: Realizare orificiu perete pentru conducte

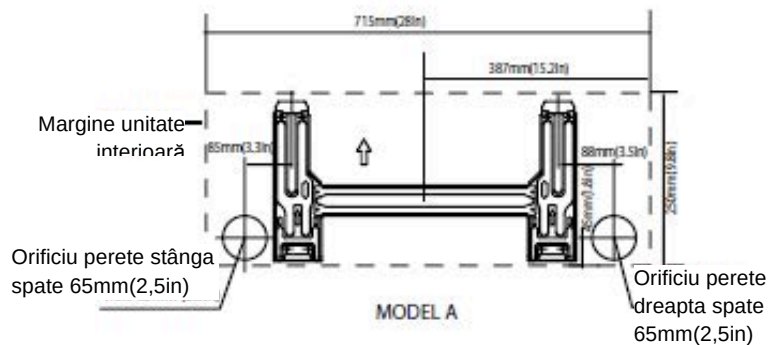
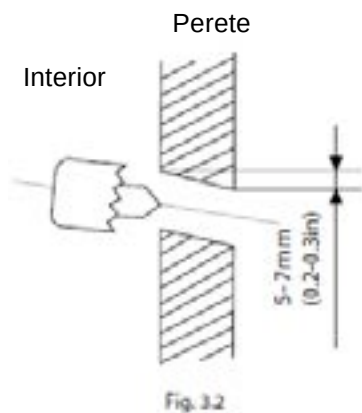
Trebuie să realizați gaura din perete pentru conducta de agent frigorific, conducta de scurgere și cablul de semnal ce vor lega unitatea interioară de cea exterioară.

1. Stabiliți locația orificiului din perete pe baza poziției plăcii de montare. Consultați capitolul Dimensiunile Plăcii de Montare de pe pagina următoare pentru stabilirea poziției optime. Orificiul din perete trebuie să aibă un diametru de cel puțin de 65mm (2,5in) și să aibă un unghi ușor înclinat pentru a face scurgerea mai ușoară.
2. Utilizând un burghiu de 65 mm (2,5in), realizați o gaură în perete. Asigurați-vă că orificiul este în unghi ușor înclinat astfel încât partea exterioară a orificiului să fie mai jos decât cea interioară cu 5-7 mm (0,2-0,275in). Acest lucru asigură scurgerea adecvată a apei (Consultați Fig. 3.2)
3. Amplasați manșeta de protecție în orificiu. Acest lucru protejează marginile și ajută la etanșarea acestuia la finalizarea procesului de instalare.



ATENȚIE

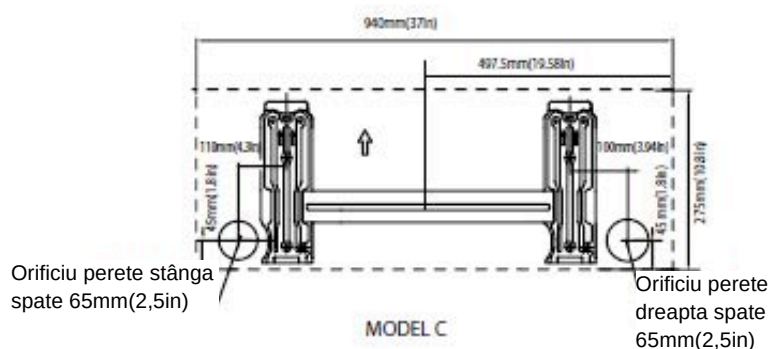
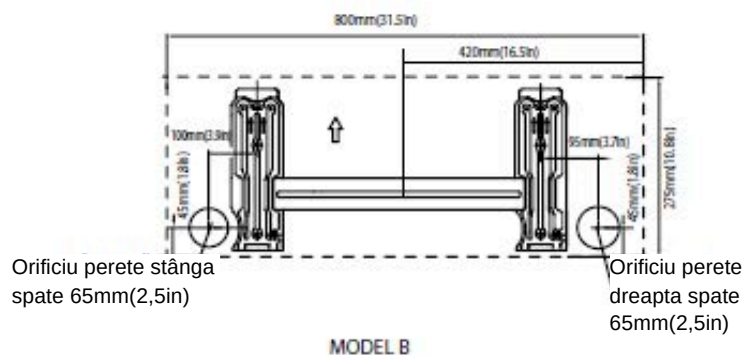
Realizând orificiul din perete, asigurați-vă că veți evita cablurile, instalația și alte componente sensibile.



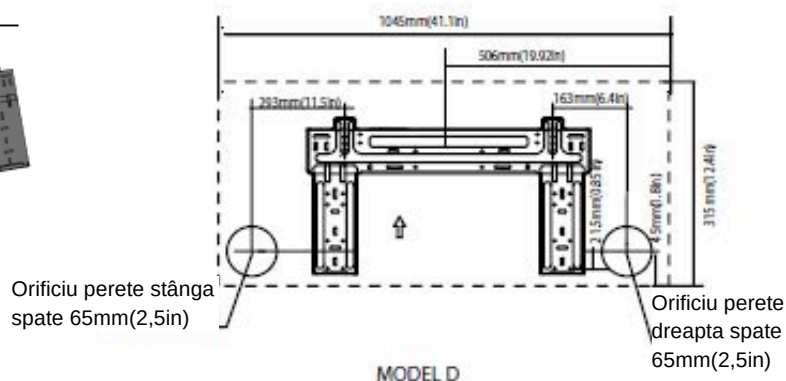
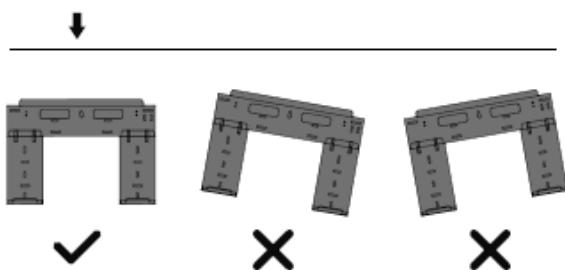
DIMENSIUNI PLACĂ DE MONTARE

Modelele diferite au plăci de montare diferite. Pentru a vă asigura că aveți suficient spațiu pentru montarea unității interioare, schițele din dreapta arată diferite tipuri de placă de montare împreună cu următoarele dimensiuni:

- Lățimea plăcii de montare
- Înălțimea plăcii de montare
- Lățimea unității interioare comparativ cu placa
- Înălțimea unității interioare comparativ cu placa
- Poziția recomandată a orificiului din perete (atât la stânga cât și la dreapta plăcii de montare)
- Distanțele relative dintre orificiile pentru șuruburi



Orientare corectă a plăcii de montare



Etapa 4: Pregătire conducte de agent frigorific

Conductele de agent frigorific se găsesc în interiorul unui manșon de etanșare atașat în spatele aparatului. Trebuie să pregătiți conducta înainte de trecerea acesteia prin orificiul din perete. Consultați secțiunea legarea conductei de agent frigorific din prezentul manual pentru instrucțiuni detaliate cu privire la lărgirea conductelor și cerințele, tehnica privind strângerea expandării.

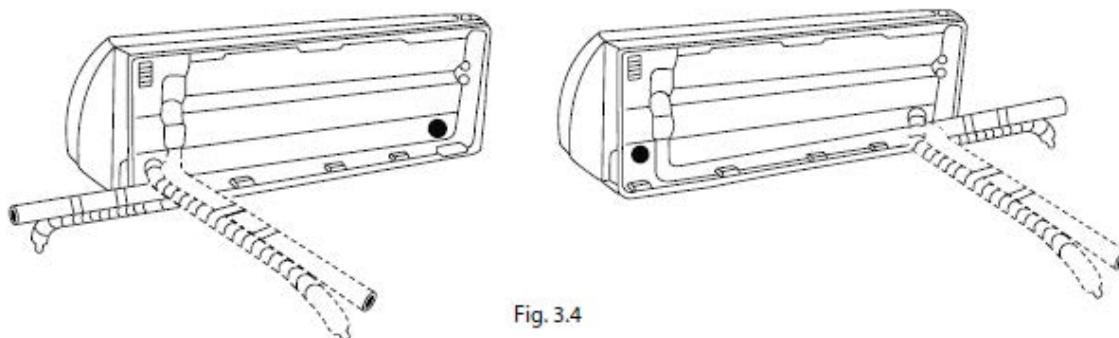
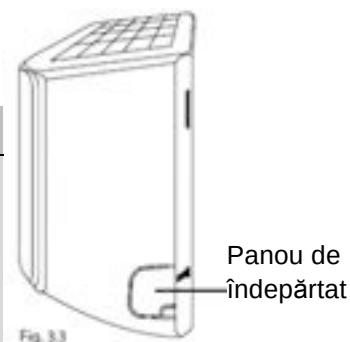
1. Pe baza poziției orificiului din perete comparativ cu placa de instalare, alegeți partea din care conductele vor ieși din aparat.
2. Dacă orificiul din perete se află în spatele aparatului, păstrați panoul la locul său. Dacă orificiul din perete se află într-o parte față de unitatea interioară, îndepărtați panoul de plastic din lateralul aparatului. (Consultați Fig.3.3). Acest lucru va crea un locaș prin care conducta poate să iasă din aparat. Utilizați clești cu vârf ascuțit dacă panoul din plastic nu poate fi îndepărtat cu mâna.
3. Utilizați foarfecele pentru a tăia lungimea manșonului de etanșare pentru a lăsa liberi aproximativ 15cm (6in) din conducta de agent frigorific. Acest lucru deservește la două scopuri:
 - pentru a facilita procesul de conectare a conductei de agent frigorific
 - pentru a facilita verificările pentru scurgeri de gaze și pentru a permite verificarea de lovituri.
4. Dacă conductele de legătură existente sunt deja încastate în perete, treceți direct la etapa Conectarea Furtunului de Scurgere. Dacă nu există conducte încastate, conectați conducta de agent frigorific a unității interioare la țeava de legătură care va conecta unitatea interioară și exterioară. Consultați secțiunea Conectarea Țevii de agent frigorific a prezentului manual pentru instrucțiuni detaliate.
5. Pe baza poziției orificiului din perete comparativ cu placa de montare, stabiliți unghiul necesar pentru conducte.
6. Apucați țeava de agent frigorific la baza îndoirii.
7. Încet, folosind o presiune constantă, îndoiți țeava spre orificiu. Nu loviți sau nu avariați conducta pe parcursul acestei operațiuni.

NOTĂ CU PRIVIRE LA UNGHIUL CONDUCTEI

Conductele de agent frigorific pot ieși din unitatea interioară prin 4 unghiuri diferite:

- Partea stângă
- Stânga-spate
- Partea dreaptă
- Dreapta-spate

Consultați Fig. 3.4 pentru detalii.



ATENȚIE

Aveți deosebită grijă să nu loviți sau avariați conducta în timpul îndoirii dinspre unitate. Orice lovituri din conducte vor afecta performanța aparatului.

Etapa 5: Conectarea furtunului de scurgere

Implicit, furtunul de scurgere este atașat pe partea stângă a unității (atunci când sunteți cu spatele la aparat). Însă, acesta poate fi atașat pe partea dreaptă.

1. Pentru a asigura o scurgere adecvată, atașați furtunul de scurgere pe aceeași parte cu conductele existente de pe aparatul dvs.
2. Atașați extensia furtunului de scurgere (achiziționată separat) la capătul furtunului de scurgere.
3. Strângeți ferm punctul de legătură cu bandă de teflon pentru a etanșare bună și pentru a preveni scurgerile.
4. Pentru partea din furtunul de scurgere care va rămâne la interior, folosiți spumă de etanșare pentru țevi pentru a preveni condensul.
5. Îndepărtați filtrul de aer și puneți o cantitate mică de apă în tava de scurgere pentru a vă asigura că apa se scurge adecvat din aparat.



NOTĂ CU PRIVIRE LA AMPLASAREA FURTUNULUI DE SCURGERE

Asigurați aranjarea furtunului de scurgere conform cu Fig. 3.5.

- Ø NU îndoiți furtunul în bucle.
- Ø NU creați locuri unde poate să se adune apa
- Ø NU puneți capătul furtunului de scurgere în apă sau într-un container care colectează apă.

ASTUPAȚI ORIFICIUL DE SCURGERE NEUTILIZAT

Pentru a preveni scurgerile nedorite trebuie să astupați orificiile de scurgere neutilizate cu dopul de cauciuc inclus.

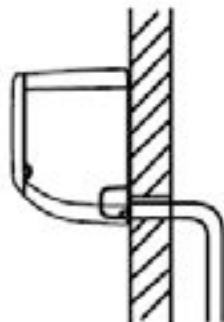


Fig. 3.5

CORECT
Asigurați-vă că nu există bucle sau lovituri ale furtunului de scurgere pentru a asigura o scurgere adecvată.



GREȘIT
Buclele din furtun vor crea locuri în care se poate aduna apa.

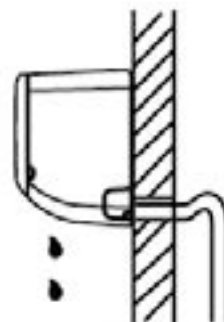


Fig. 3.6

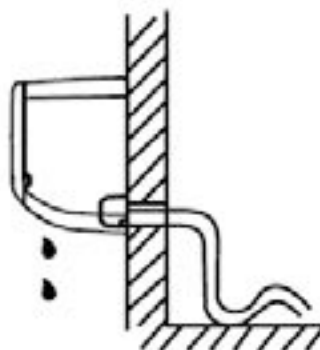
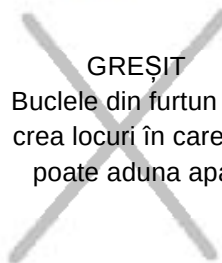


Fig. 3.7



GREȘIT
Nu puneți capătul furtunului de scurgere în apă sau containere de apă. Acest lucru va împiedica scurgerea adecvată.

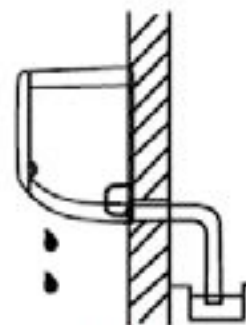


Fig. 3.8



ÎNAINTE DE REALIZAREA LUCRĂRILOR ELECTRICE, CITIȚI ACESTE REGLEMENTĂRI

- 1 Toate cablajele trebuie să fie în conformitate cu codurile electrice locale și naționale, și trebuie izolate de către un electrician autorizat.
- 2 Toate legăturile electrice trebuie realizate în conformitate cu diagrama conexiunilor electrice localizată pe panourile unităților interioare și exterioare.
- 3 Dacă există o problemă de siguranță serioasă cu privire la alimentarea electrică, opriți imediat aparatul. Explicați acest motiv clientului și refuzați instalarea până ce aparatul nu va avea această problemă de siguranță rezolvată.
- 4 Voltajul electric trebuie să fie între 90 – 100% din voltajul nominal. O alimentare electrică insuficientă poate duce la defecțiuni, electrocutare sau incendiu.
- 5 Dacă alimentarea electrică este legată de cablarea fixă, instalați o protecție la supratensiune și păstrați comutatorul principal cu o capacitate de 1,5 ori mai mare decât capacitatea maximă a curentului aparatului.
- 6 Dacă electricitatea este conectată la cablarea fixă, un comutator sau un întrerupător de circuit ce deconectează toți poli și are o separare de contact de cel puțin 1/8 in (3 mm) trebuie încorporat în cablarea fixă. Tehnicianul calificat trebuie să utilizeze un întrerupător de circuit adecvat.
- 7 Conectați aparatul la priza de circuit a ramificației. Nu conectați alte aparate la aceeași priză.
- 8 Asigurați-vă de împământarea adecvată a aparatului de aer condiționat.
- 9 Fiecare cablu trebuie conectat bine. Cablurile conectate slab pot duce la supraîncălzirea terminalului, ce duce la defectarea produsului și un posibil incendiu.
- 10 Nu permiteți cablurilor să atingă sau să stea pe conducta de agent frigorific, compresor sau orice componente în mișcare ale aparatului.
- 11 Dacă aparatul este însoțit de un radiator electric suplimentar, acesta trebuie instalat la cel puțin 1 m (40in) departe de materiale combustibile.



AVERTIZARE

ÎNAINTE DE REALIZAREA ORICĂROR LUCRĂRI ELECTRICE, OPRIȚI ALIMENTAREA ELECTRICĂ A APARATULUI DIN COMUTATORUL PRINCIPAL.

Etapa 6: Conectare cablu pentru semnal

Cablul de semnal permite comunicarea dintre unitatea interioară și cea exterioară. Trebuie să alegeți mai întâi dimensiunea corectă a cablului înainte de a-l pregăti pentru conectare.

Tipuri de cabluri

- Cablu de alimentare intern (dacă este cazul) H05W-F sau H05V2V2-F
- Cablu de alimentare extern: H07RN-F
- Cablu de semnal: H07RN-F

Secțiunea transversală minimă a cablurilor de alimentare și de semnal

America de Nord

Amperi aparat (A)	AWG
10	18
13	16
18	14
25	12
30	10

Alte regiuni

Curentul nominal al aparatului (A)	Zonă nominală transversală (mm ²)
> 3 și ≤ 6	0,75
> 6 și ≤ 10	1
> 10 și ≤ 16	1,5
> 16 și ≤ 25	2,5
> 25 și ≤ 32	4
> 32 și ≤ 40	6

ALEGEȚI DIMENSIUNEA CORECTĂ A CABLULUI

Dimensiunea cablului de alimentare, cablului de semnal, siguranței și comutatorului necesare sunt stabilite de curentul maxim al aparatului. Curentul maxim este indicat pe plăcuța de identificare localizată pe panoul lateral al aparatului. Consultați plăcuța de identificare pentru a alege cablul, siguranța sau comutatorul adecvat.

ȚINEȚI CONT DE SPECIFICAȚIILE SIGURANȚEI

Placa de circuit a aparatului de aer condiționat (PCB) este prevăzută cu o siguranță pentru a oferi protecție la supra-circuit. Specificațiile siguranței sunt tipărite pe panou, de genul T3, 15A/250VAC, T5A/250VAC, etc..

1. Pregătiți cablul pentru conectare:

- Utilizând un instrument de de-izolat cabluri, îndepărtați stratul de cauciuc de la ambele capete ale cablului de semnal pentru a avea liberi aproximativ 15cm (6in) de cablu la interior.
- Îndepărtați izolația de la capetele cablurilor.
- Utilizând o mașină de ambutisat cabluri ambutisați caneluri de tip U la capetele cablurilor.

ȚINEȚI CONT DE CABLURILE ALIMENTATE

În operațiunea de ambutisare, aveți grijă la diferențierea clară a cablurilor alimentate (cu inscripția L-live) de celelalte cabluri.

- Deschideți panoul frontal al unității interioare.
- Utilizând o șurubelniță, deschideți capacul panoului de cabluri din dreapta aparatului. Acest lucru va duce la blocul terminal.



AVERTIZARE

TOATE CABLAJELE TREBUIE REALIZATE STRICT ÎN CONFORMITATE CU DIAGRAMA DE CABLARE DIN INTERIORUL PANOULUI UNITĂȚII INTERIOARE.

- Deșurubați clema cablului din partea de jos a terminalului și puneți-o deoparte.
- Privind în spatele unității, îndepărtați capacul de plastic din partea de jos al părții din stânga.
- Treceți cablul de semnal prin fanta din spatele unității spre față.

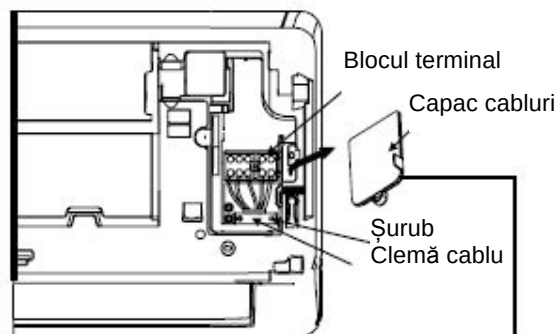


Fig. 3.9

Diagrama de cablaje se află la interiorul panoului de cabluri al unității interioare

7. Cu fața la aparat, potriviți culorile cu etichetele de pe blocul terminal, conectați ambutisarea sub formă de U și înșurubați ferm fiecare cablu la terminalul său corespunzător.



ATENȚIE

NU AMESTECAȚI FIRELE SUB TENSIUNE CU CELE NULE

Acest lucru este periculos și poate duce la defectarea aparatului de aer condiționat.

8. După verificarea pentru a vă asigura că fiecare conexiune este sigură, utilizați clema pentru cabluri pentru a strânge cablul de semnal al unității. Strângeți ferm clema pentru cabluri.

9. Puneți la loc capacul firelor din fața unității, precum și panoul de plastic din spate.



NOTĂ CU PRIVIRE LA CABLARE

PROCESUL DE CONECTARE A CABLURILOR POATE FI UȘOR DIFERIT ÎN FUNCȚIE DE MODEL.

Etapa 7: Înfășurare conducte și cabluri

Înainte de a trece conductele, furtunul de scurgere și cablurile prin orificiul din perete, trebuie să le strângeți pe toate pentru a economisi spațiul, să le protejați și să le izolați.

1. Strângeți furtunul de scurgere, conducta de agent frigorific și cablul de semnal conform figurii 3.12.

FURTUNUL DE SCURGERE TREBUIE SĂ FIE DEDESUBT

Asigurați-vă că furtunul de scurgere este dedesubt în timpul strângerii. Dacă așezați deasupra furtunul de scurgere, acest lucru poate duce la revărsarea tăvii de umplere ceea ce poate duce la incendiu și daune din cauza apei.

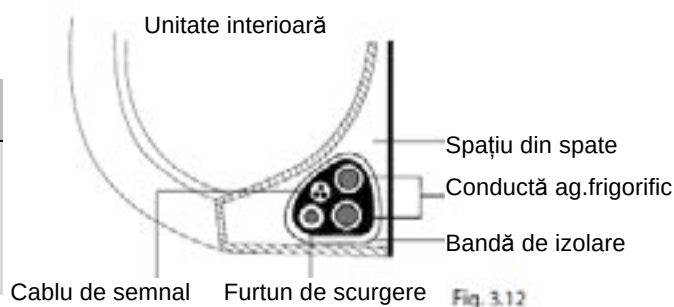


Fig. 3.12

NU INTERCALAȚI CABLUL DE SEMNAL CU ALTE CABLURI

În timpul strângerii acestor elemente, nu intercalați și nu treceți cablul de semnal peste niciun alt cablu.

2. Utilizând bandă adezivă de vinil, atașați furtunul de scurgere pe sub conductele de agent frigorific.

3. Utilizând bandă izolatoare, înfășurați strâns cablul de semnal, conductele de agent frigorific și furtunul de scurgere. Verificați de două ori ca toate acestea să fie strânse conform cu Fig. 3.12.

NU STRÂNGEȚI CAPETELE CONDUCTELOR

În timpul strângerii acestor elemente, păstrați capetele conductelor neînchinate. Trebuie să aveți acces la ele pentru a testa împotriva scurgerilor la finalul procesului de instalare (consultați capitolele Verificarea Electrică și Verificarea pentru scurgeri din acest manual).

Etapa 8: Montare unitate interioară

Dacă ați instalat conducte de legătură noi pe unitatea exterioară, urmați următorii pași:

1. Dacă ați trecut deja conducta de agent frigorific prin orificiul din perete, treceți la pasul 4.

2. În caz contrar, verificați de două ori să sigilați capetele conductei de agent frigorific pentru a preveni ca murdăria sau corpurile străine să intre în conductă.

3. Treceți ușor conductele de agent frigorific, furtunul de scurgere și cablul de semnal strânse împreună prin orificiul din perete.

4. Agățați partea de sus a unității interioare pe cârligul de sus de pe placa de montare.

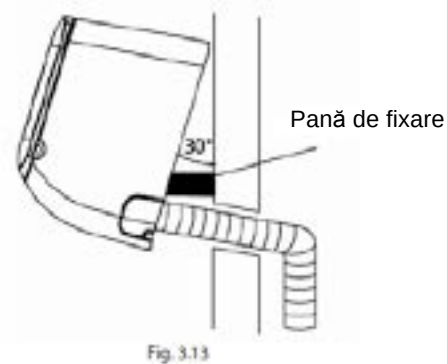
5. Verificați ca unitatea să fie ferm agățată pe placa de montare prin apăsarea ușoară în stânga și dreapta unității. Unitatea nu trebuie să se miște sau să se mute.

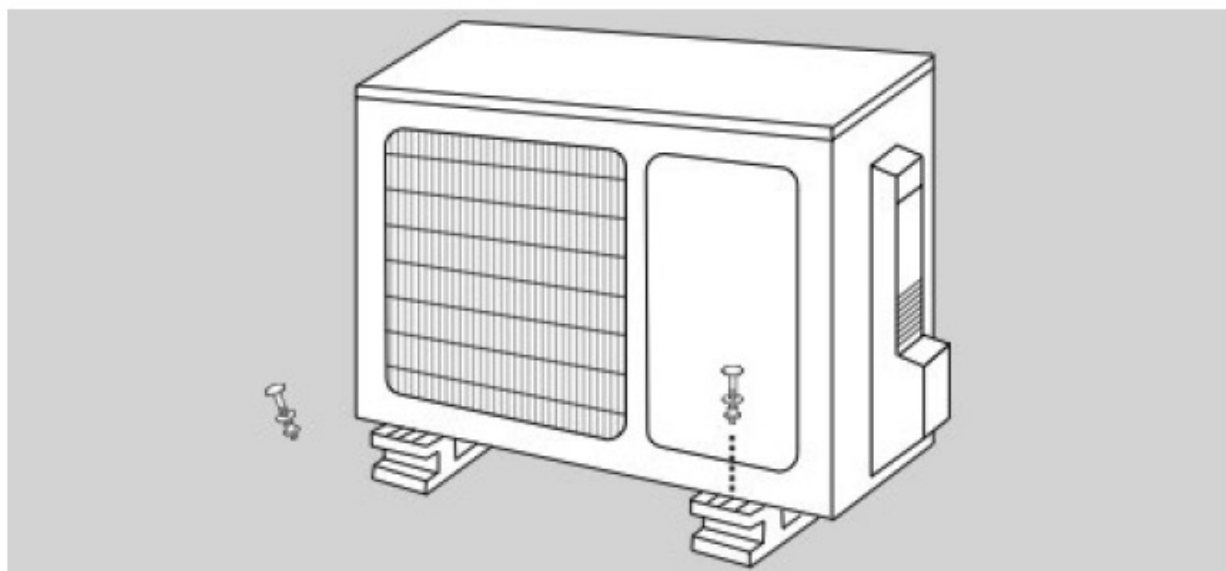
6. Utilizând o presiune egală, apăsați pe partea de jos a unității. Continuați să apăsați până ce aparatul se prinde de cârligele de pe capătul plăcii de montare.

7. Din nou, verificați ca unitatea să fie ferm montată prin apăsarea ușoară în stânga și dreapta unității.

Dacă conducta de agent frigorific este deja introdusă în perete, urmați următoarele indicații:

1. Agățați partea de sus a unității interioare pe cârligul de sus de pe placa de montare.
2. Utilizați o consolă sau o pană de fixare pentru a susține unitatea, acordându-vă suficient spațiu pentru a conecta conducta de agent frigorific, cablul de semnal și furtunul de scurgere. Consultați Fig. 3.13 ca și exemplu.
3. Conectați furtunul de scurgere și conducta de agent frigorific (consultați secțiunea Conectarea Conductei de Agent Frigorific din acest manual pentru instrucțiuni).
4. Păstrați punctul de conectare al conductei expus pentru a realiza testul de scurgere (consultați capitolul Verificări Electrice și Verificarea pentru Scurgeri din acest manual).
5. După testul de scurgeri, strângeți punctul de conectare cu bandă izolatoare.
6. Îndepărtați consola sau pana de fixare care susține unitatea.
7. Folosind o presiune egală, apăsați pe partea de jos a unității. Continuați apăsarea până ce unitatea se prinde în cârligele din partea de jos a plăcii de montare.





Instrucțiuni instalare – unitate exterioară

Etapa 1: Alegere locație pentru instalare

Înainte de a instala unitatea exterioară, trebuie să alegeți o locație adecvată. Următoarele reprezintă standarde ce vă vor ajuta în alegerea unei locații adecvate pentru aparat.

Locațiile adecvate pentru instalare trebuie să îndeplinească următoarele condiții:

- ☑ Întrunirea tuturor cerințelor speciale ce se pot vedea în Cerințele de spațiu ale instalării (Fig. 4.1)
- ☑ O circulație bună a aerului
- ☑ Un loc ferm și solid – locația va putea susține unitatea și nu va vibra
- ☑ Zgomotul produs de aparat nu va deranja alți oameni
- ☑ O locație ferită de perioadele lungi de expunere la razele solare.

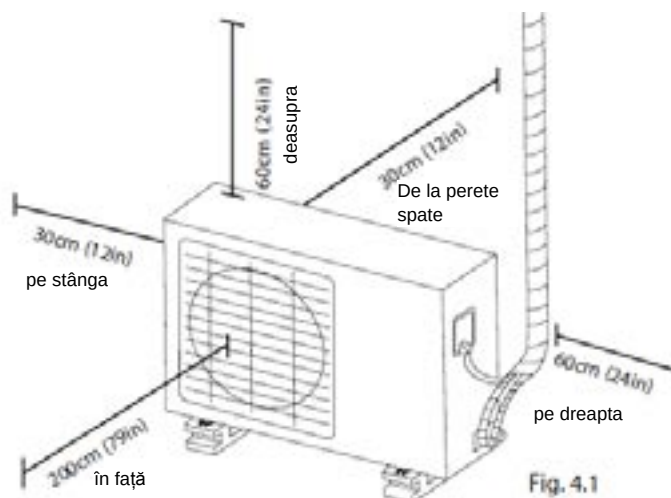


Fig. 4.1

NU instalați aparatul în următoarele locații:

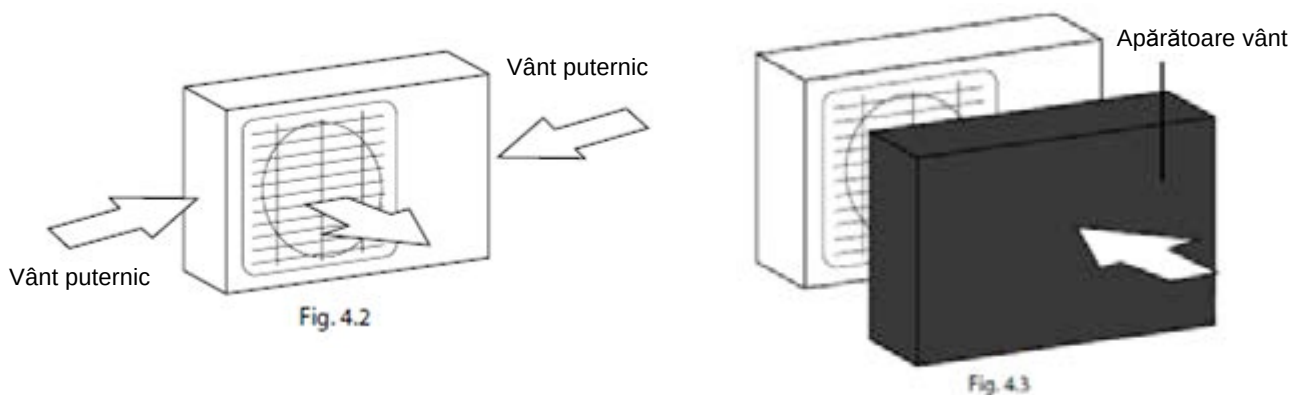
- Ø În apropierea unui obstacol ce va bloca admisia și evacuarea aerului.
- Ø În preajma unei străzi publice, unei zone aglomerate, sau unde zgomotul aparatului va deranja alți oameni
- Ø În apropierea animalelor sau plantelor care vor suferi din urma evacuării de aer.
- Ø În apropierea oricărei surse de gaze inflamabile.
- Ø Într-o locație care este expusă cantităților mari de praf
- Ø Într-o locație supusă unei cantități excesive de aer sărat

CONSIDERENTE SPECIALE PENTRU VREME EXTREMĂ

Dacă unitatea este expusă vântului puternic:

Instalați unitatea astfel încât fanta de evacuare este la unghi de 90° în direcția vântului. Dacă este nevoie, construiți o barieră în fața unității pentru a o proteja de vânturile extrem de puternice.

Consultați Fig. 4.2 și Fig. 4.3 de mai jos.



Dacă unitatea este expusă frecvent ploilor torențiale sau căderilor masive de zăpadă:

Construiți un adăpost deasupra unității pentru a o proteja de ploaie sau zăpadă. Aveți grijă să nu blocați fluxul de aer din jurul unității.

Dacă unitatea este expusă frecvent la aer sărat (pe malul mării):

Utilizați o unitate exterioară special proiectată pentru a rezista la coroziune.

Etapa 2: Instalare racord de scurgere

Unitatea pompei de căldură necesită un racord de scurgere. Înainte de fixarea unității exterioare, trebuie să instalați un racord de scurgere în partea de jos a unității. Țineți minte că există două tipuri diferite de racorduri de scurgere în funcție de tipul unității exterioare.

Dacă racordul de scurgere este prevăzut cu o garnitură din cauciuc (consultați Fig.4.4 – A), acționați în următorul fel:

1. Potriviți garnitura de cauciuc pe capătul racordului de scurgere care va conecta unitatea exterioară.
2. Introduceți racordul de scurgere în orificiul din tava de colectare de la baza unității.
3. Rotiți racordul de scurgere 90° până ce se fixează printr-un sunet de clic cu fața spre partea frontală a unității.
4. Conectați o extensie a furtunului de scurgere (nu este inclusă) la racordul de scurgere pentru a redirecționa apa din unitate în timpul modulului de încălzire.

Dacă racordul de scurgere nu este prevăzut cu

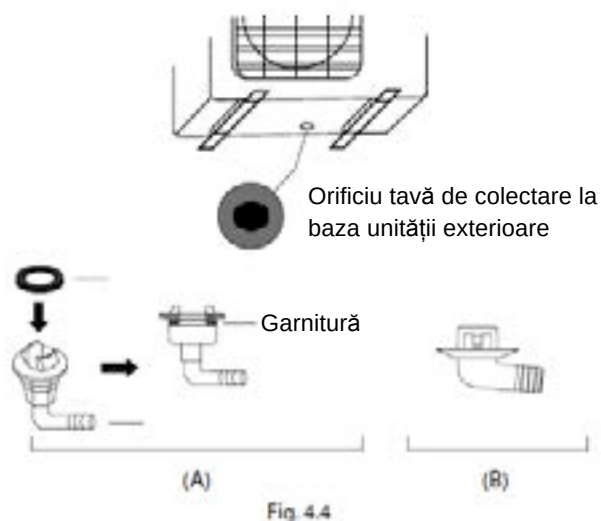
garnitură din cauciuc (consultați Fig. 4.4 – B), urmați următoarele etape:

1. Introduceți racordul de scurgere în orificiul din tava de colectare de la baza unității. Racordul de scurgere va scoate un sunet de clic atunci când este fixat.
2. Conectați o extensie a furtunului de scurgere (nu este inclusă) la racordul de scurgere pentru a redirecționa apa din unitate în timpul modulului de încălzire.



ÎN MEDIILE RECI

În mediile reci, asigurați-vă că furtunul de scurgere este pe cât de vertical posibil pentru a asigura o scurgere rapidă a apei. Dacă apa se scurge prea încet, aceasta poate să înghețe pe furtun și să inunde unitatea.



Etapa 3: Ancorare unitate exterioară

Unitate exterioară poate fi ancorată de pământ sau pe consolă montată pe perete

Dimensiunile de montare ale unității

Următorul tabel reprezintă o listă cu diversele dimensiuni ale unității exterioare și distanța dintre picioarele de montare. Pregătiți baza de instalare a unității conform cu dimensiunile de mai jos.

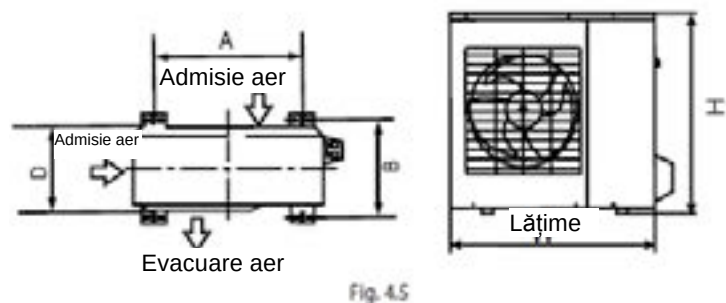


Fig. 4.5

Dimensiunile unității exterioare (mm/in) L x H x I	Dimensiuni de montare	
	Distanța A (mm/in)	Distanța B (mm/in)
681x434x285 (26,8"x17"x11,2")	460 (18,10")	292 (11,49")
700x550x270 (27,5"x21,6"x10,62")	450 (17,7")	260 (10,24")
780x540x250 (30,7"x21,25"x9,85")	549 (21,6")	276 (10,85")
760x590x285 (29,9"x23,2"x11,2")	530 (20,85")	290 (11,4")
845x700x320 (33,25"x27,5"x12,6")	560 (22")	335 (13,2")
810x558x310 (31,9"x22"x12,2")	549 (21,6")	325 (12,8")
700x550x275 (27,5"x21,6"x10,82")	450 (17,7")	260 (10,24")
770x555x300 (30,3"x21,85"x11,81")	487 (19,2")	298 (11,73")
800x554x333 (31,5"x21,8"x13,1")	514 (20,24")	340 (13,39")
845x702x363 (33,25"x27,63"x14,29")	540 (21,26")	350 (13,8")
900x860x315 (35,4"x33,85"x12,4")	590 (23,2")	333 (13,1")
945x810x395 (37,2"x31,9"x15,55")	640 (25,2")	405 (15,95")
946x810x420 (37,21"x31,9"x16,53")	673 (26,5")	403 (15,87")

Dacă instalați unitatea pe pământ sau pe o platformă de montare din beton, urmați pașii următori:

1. Marcați pozițiile pentru 4 bolțuri de expansiune pe baza dimensiunilor din Schema Dimensiunilor de Montare ale Unității.
2. Realizați dinainte orificii pentru bolțurile de expansiune.
3. Curățați praful provenit din beton din găuri.
4. Puneți o piuliță la capătul fiecărui bolț de expansiune.
5. Bateți cu ciocanul bolțurile de expansiune în găurile date dinainte.
6. Îndepărtați piulițele de pe bolțurile de expansiune și puneți unitatea exterioară pe bolțuri.
7. Puneți șaibe pe fiecare bolț de expansiune apoi înlocuiți piulițele.
8. Utilizând o cheie, strângeți fiecare piuliță bine.



AVERTIZARE

ATUNCI CÂND REALIZAȚI GĂURI ÎN BETON, ESTE RECOMANDATĂ PROTEJAREA OCHILOR ÎN PERMANENȚĂ.



ATENȚIE

Înainte de instalarea unei unități pe perete, asigurați-vă că acel perete este construit din cărămidă, beton sau din materiale asemănătoare și rezistente. Peretele trebuie să poată susține cel puțin de patru ori greutatea unității.

Dacă veți instala unitatea pe o consolă montată pe perete, faceți următoarele:

1. Marcați poziția orificiilor pentru consolă pe baza dimensiunilor din Schema Dimensiunilor de Montare ale Unității.

2. Realizați dinainte orificii pentru bolțurile de expansiune.
3. Curățați praful provenit din beton din găuri.
4. Puneți o piuliță la capătul fiecărui bolț de expansiune.
5. Treceți bolțurile de expansiune prin găurile din consola de montare, puneți consola de montare în poziție și bateți cu ciocanul bolțurile de expansiune în perete.
6. Verificați dacă consola de montare este dreaptă.
7. Ridicați cu atenție unitatea și puneți picioarele de montare pe consolă.
8. Prindeți cu șuruburi în mod ferm unitatea de consolă.

PENTRU A REDUCE VIBRAȚIILE UNITĂȚII MONTATE PE PERETE

Dacă vi se permite, puteți instala unitatea pe perete împreună cu o garnitură din cauciuc pentru a reduce vibrațiile și zgomotul.

Etapa 4: Conectare cablu semnal și cablu electric

Blocul terminal al unității exterioare este protejat de o carcasă de cablaje electrice pe o parte a unității. O diagramă de cablare cuprinzătoare este tipărită pe interiorul capacului de cablare.



ÎNAINTE DE EFECTUAREA LUCRĂRIILOR ELECTRICE, CITIȚI ACESTE REGLEMENTĂRI

1. Toate cablurile trebuie să fie conform cu codurile electrice locale și naționale și trebuie să fie instalate de către un electrician autorizat.
2. Toate conexiunile electrice trebuie realizate conform cu diagrama legăturilor electrice localizată pe panourile laterale ale unităților interioare și exterioare.
3. Dacă există o problemă serioasă de siguranță cu alimentarea electrică, opriți lucrările imediat. Explicați acest motiv clientului și refuzați instalarea unității până ce problema legată de siguranță este rezolvată în mod adecvat.
4. Voltajul electric trebuie să fie între 90 – 100% din voltajul nominal. Alimentarea insuficientă cu energie electrică poate cauza electrocutare sau incendiu.
5. Dacă se conectează electricitatea la cablarea fixă, instalați o protecție la supratensiune și un comutator principal cu o capacitate de 1,5 ori mai mare față de curentul maxim al unității.
6. Dacă conectați alimentarea electrică la cablarea fixă, un comutator sau un întrerupător de circuit care deconectează toți polii și care are o separare de contact de cel puțin 1/8 in (3 mm) trebuie încorporat în cablarea fixă. Tehnicianul calificat trebuie să utilizeze un întrerupător de circuit sau un comutator aprobat.
7. Conectați aparatul doar la o priză de circuit individuală. Nu conectați alte aparate la aceeași priză.
8. Asigurați-vă că împământați adecvat aparatul de aer condiționat.
9. Fiecare cablu trebuie conectat ferm. Cablurile slabe pot duce la supraîncălzirea terminalului, ceea ce rezultă în defectarea produsului și un posibil incendiu.
10. Nu permiteți ca firele să atingă sau să stea pe conductele de agent frigorific, compresor sau alte părți care se mișcă ale unității.
11. Dacă unitatea are un radiator electric suplimentar, acesta trebuie instalat la cel puțin 1 m (40 in) departe de materiale combustibile.



AVERTIZARE

ÎNAINTE DE REALIZAREA ORICĂROR LUCRĂRI ELECTRICE SAU DE CABLARE, OPRIȚI ALIMENTAREA ELECTRICĂ A SISTEMULUI.

1. Pregătiți cablul pentru conexiune:

UTILIZAȚI CABUL CORECT

- Cablu de alimentare intern (dacă este cazul) H05W-F sau H05V2V2-F
- Cablu de alimentare extern: H07RN-F
- Cablu de semnal: H07RN-F

Secțiunea transversală minimă a cablurilor de alimentare și de semnal

America de Nord

Amperi aparat (A)	AWG
10	18
13	16
18	14
25	12
30	10

Alte regiuni

Curentul nominal al aparatului (A)	Zonă nominală transversală (mm ²)
> 3 și ≤ 6	0,75
> 6 și ≤ 10	1
> 10 și ≤ 16	1,5
> 16 și ≤ 25	2,5
> 25 și ≤ 32	4
> 32 și ≤ 40	6

a. Utilizând un instrument de de-izolat cabluri, îndepărtați stratul de cauciuc de la ambele capete ale cablului de semnal pentru a avea liberi aproximativ 15cm (6in) de cablu la interior.

b. Îndepărtați izolația de la capetele cablurilor.

c. Utilizând o mașină de ambutisat cabluri ambutisați caneluri de tip U la capetele cablurilor.

ȚINEȚI CONT DE CABLURILE ALIMENTATE

În operațiunea de ambutisare, aveți grijă la diferențierea clară a cablurilor alimentate (cu inscripția L-live) de celelalte cabluri.



AVERTIZARE

TOATE CABLAJELE TREBUIE REALIZATE STRICT ÎN CONFORMITATE CU DIAGRAMA DE CABLARE DIN INTERIORUL PANOULUI UNITĂȚII INTERIOARE.

2. Deșurubați capacul cablurilor electrice și îndepărtați-l.

3. Deșurubați clema cablului din partea de jos a terminalului și puneți-o deoparte.

4. Potrivii culorile cu etichetele de pe blocul terminal, conectați ambutisarea sub formă de U și înșurubați ferm fiecare cablu la terminalul său corespunzător.

5. După verificare, pentru a vă asigura că fiecare conexiune este sigură, treceți cablurile printr-o buclă pentru a preveni ca apa din ploaie să pătrundă în terminal.

6. Folosind clema pentru cabluri strângeți cablul de unitate. Strângeți ferm clema pentru cabluri.

7. Izolați cablurile neutilizate cu bandă izolatoare din PVC. Aranjați-le astfel încât să nu atingă nicio parte electrică sau metalică.

8. Puneți la loc capacul firelor din lateralul unității, și înșurubați-l la loc.

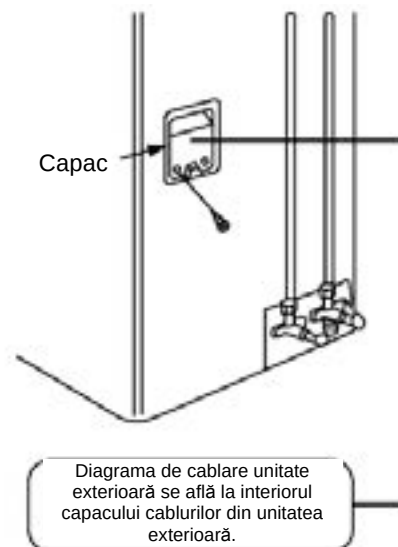
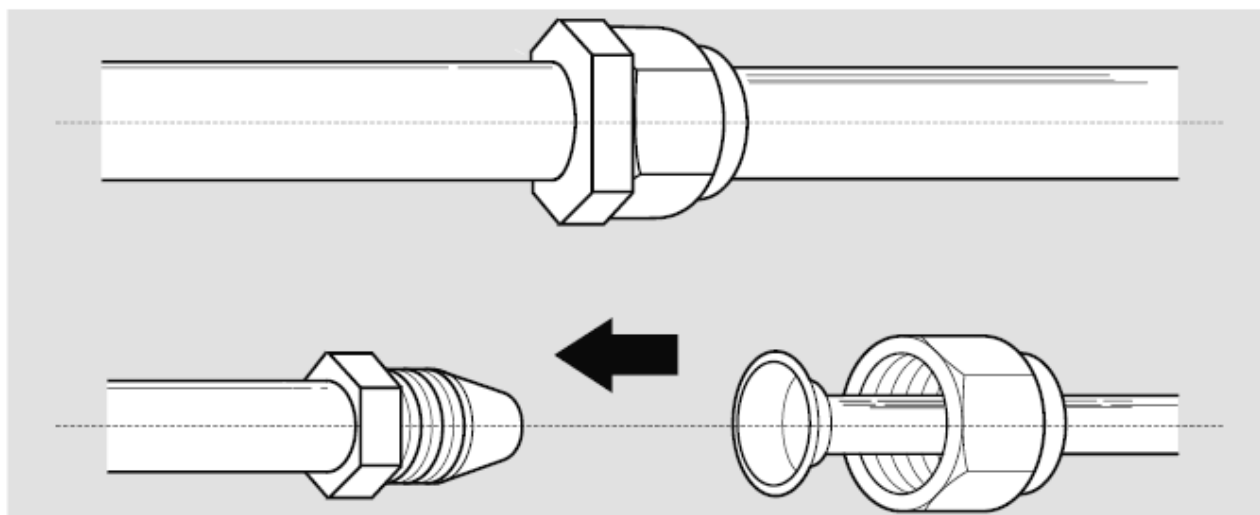


Fig. 4.6



Notă cu privire la lungimea conductei

Lungimea conductei de agent frigorific va afecta performanța și eficiența energetică a aparatului. Eficiența nominală este testată la unitățile cu o lungime a conductei de 5 m (16 in).

Consultați tabelul de mai jos pentru specificații cu privire la lungimea maximă și înălțimea maximă de cădere a conductei.

Lungimea maximă și înălțimea maximă a conductei de agent frigorific în funcție de modelul aparatului

Model	Capacitate (BTU/h)	Lungime max. (m)	Înălțime maximă de cădere (m)
Aparat de aer condiționat Invertor de tip split R410A	< 15.000	28 (82 ft)	10 (33 ft)
	≥ 15.000 și < 24.000	30 (98,5 ft)	20 (66 ft)
	≥ 24.000 și < 36.000	50 (164 ft)	25 (82 ft)
	≥ 36.000 și < 60.000	65 (213 ft)	30 (98,5 ft)

Instrucțiuni de conectare – Conducte agent frigorific

Etapă 1 : Tăiere țeavă

Atunci când pregătiți conductele de agent frigorific, aveți deosebită grijă să le tăiați și să le expandați adecvat. Acest lucru va asigura o funcționare eficientă și va reduce la minim necesitatea unei mentenanțe viitoare.

1. Măsurați distanța dintre unitatea interioară și cea exterioară.
 2. Utilizând un clește de tăiat țevi, tăiați conducta puțin mai lungă decât distanța măsurată.
 3. Asigurați-vă că țeava este tăiată la un unghi perfect de 90°.
- Consultați Fig. 5.1 pentru exemple proaste de tăiere.

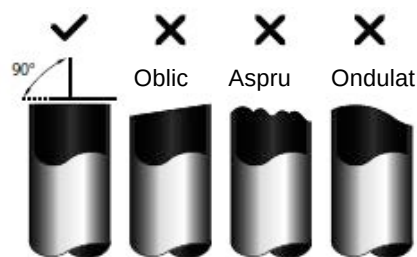


Fig. 5.1

⚠️ REFORMANȚI ȚEAVA ÎNAINTE DE TĂIERE

Aveți deosebită grijă să nu avariați, îndoiiți sau deformați țeava în timpul tăierii. Acest lucru va reduce drastic eficiența de încălzire a aparatului.

Etapă 2: Îndepărtare bavura

Bavura poate afecta garnitura de etanșare a conexiunii conductei de agent frigorific. Aceasta trebuie îndepărtată complet.

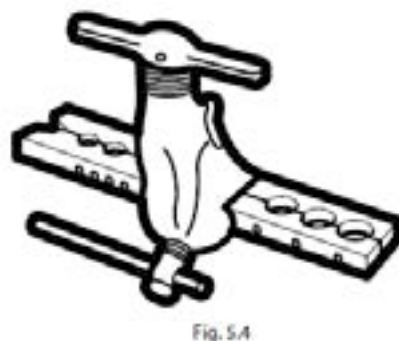
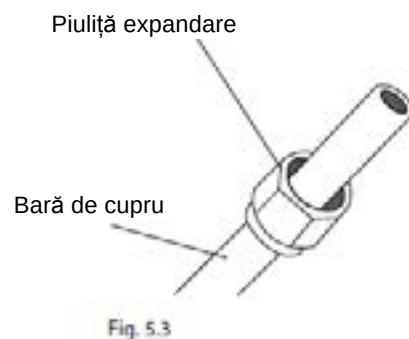
1. Țineți țeava în unghi înclinat pentru a preveni ca bavura să pătrundă în conductă.
2. Utilizând un formator sau un instrument de debavurare, îndepărtați toată bavura din partea tăiată a conductei.



Etapă 3: Capete conductă expandată

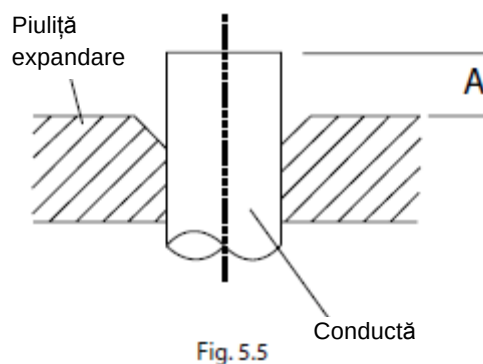
O expandare este esențială pentru a avea o etanșare bună.

1. După îndepărtarea bavurii din țeava tăiată, etanșați capetele cu bandă din PVC pentru a preveni ca materiile străine să pătrundă în conductă.
 2. Acoperiți țeava cu material de izolare.
 3. Atașați piulițe la ambele capete ale conductei. Asigurați-vă că sunt îndreptate în direcția corectă, deoarece nu le puteți instala și nu le puteți schimba direcția după expandare.
- Consultați Fig. 5.3.
4. Îndepărtați banda din PVC din capetele conductei atunci când trebuie să realizați expandarea.
 5. Atașați expansorul la capătul conductei. Capătul conductei trebuie să depășească marginea expansorului conform cu dimensiunile din tabelul de mai jos.
 6. Puneți expansorul pe forma de expandare.
 7. Rotiți mânerul expansorului în sensul acelor de ceasornic până ce conducta este expandată complet.
 8. Îndepărtați expansorul și forma de expandare, apoi inspectați capătul conductei pentru crăpături și expandare uniformă.



EXTENSIE CONDUCTĂ DUPĂ EXPANDARE

Diametru exterior al conductei (mm)	A (mm)	
	Min.	Max.
Ø 6,35 (Ø 0,25")	0,7 (0,0275")	1,3 (0,05")
Ø 9,52 (Ø 0,375")	1,0 (0,04")	1,6 (0,063")
Ø 12,7 (Ø 0,5")	1,0 (0,04")	1,8 (0,07")
Ø 16 (Ø 0,63")	2,0 (0,078")	2,2 (0,086")



Etapa 4: Legare conducte

La conectarea conductelor de agent frigorific, aveți grijă să nu folosiți un cuplu de torsiune excesiv sau să deformați conductele în orice fel. Trebuie să conectați mai întâi conducta cu presiune scăzută apoi conducta cu presiune crescută.

RAZĂ MINIMĂ DE ÎNDOIRE

Atunci când îndoii conductele de agent frigorific, raza minimă de îndoire este de 10 cm. Consultați Fig. 5.6.

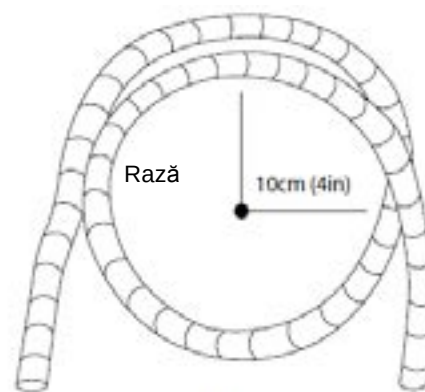


Fig. 5.6

Instrucțiuni pentru conectarea conductei la unitatea interioară

1. Aliniați centrul celor două conducte pe care urmează să le conectați. Consultați Fig.5.7
2. Strângeți piulița pe cât de mult posibil cu mâna.
3. Utilizând o cheie de buloane apucați piulița de pe conducta unității.
4. După ce apucați ferm piulița de pe conducta unității, utilizați o cheie dinamometrică pentru a

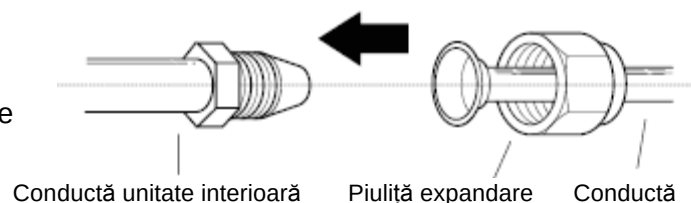


Fig. 5.7

strânge piulița conform cu valorile de torsiune din cerințele cuplului de torsiune din tabelul de mai jos. Slăbiți ușor piulița de expandare apoi strângeți-o din nou.

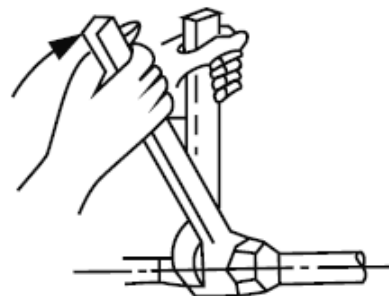


Fig. 5.8

CERINȚE CUPLU DE TORSIUNE

Diametru exterior al conductei (mm)	Cuplu de torsiune (N.cm)	Cuplu de torsiune suplimentar (N.m)
Ø 6,35 (Ø 0,25")	1.500 (11 lb.ft)	1.600 (11,8 lb.ft)
Ø 9,52 (Ø 0,375")	2.500 (18,4 lb.ft)	2.600 (19,18 lb.ft)
Ø 12,7 (Ø 0,5")	3.500 (25,8 lb.ft)	3.600 (26,55 lb.ft)
Ø 16 (Ø 0,63")	4.500 (33,19 lb.ft)	4.700 (34,67 lb.ft)



NU UTILIZAȚI UN CUPLU DE TORSIUNE EXAGERAT

Forță excesivă poate rupe piulița sau poate avaria conducta de agent frigorific. Nu trebuie să depășiți cuplul de torsiune conform cerințelor din tabelul de mai sus.

Instrucțiuni pentru conectarea conductei la unitatea exterioară

1. Deșurubați capacul supapei ceva din lateralul unității exterioare (consultați Fig. 5.9).
2. Îndepărtați capacul de protecție de la capătul supapelor.
3. Aliniați conducta lărgită cu fiecare supapă și strângeți piulița de expansiune pe cât de strâns posibil cu mâna
4. Utilizând o cheie de buloane, apucați corpul supapei. Nu apucați piulița ce detașează supapa de service (consultați Fig. 5.10).

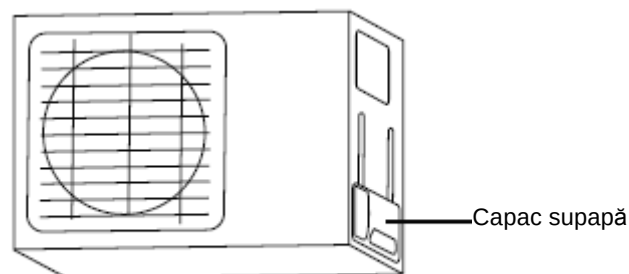


Fig. 5.9



UTILIZAȚI O CHEIE DE BULOANE PENTRU A ȚINE DE CORPUL SUPAPEI

Cuplul de torsiune din strângerea piuliței de expansiune poate să desprindă o altă parte a supapei.

5. Atunci când apucați ferm corpul supapei, folosiți o cheie dinamometrică pentru a strânge piulița de expansiune conform valorilor corecte de torsiune.
6. Slăbiți ușor piulița de expansiune apoi strângeți-o din nou.
7. Repetați etapele de la 3 până la 6 pentru conductele rămase.

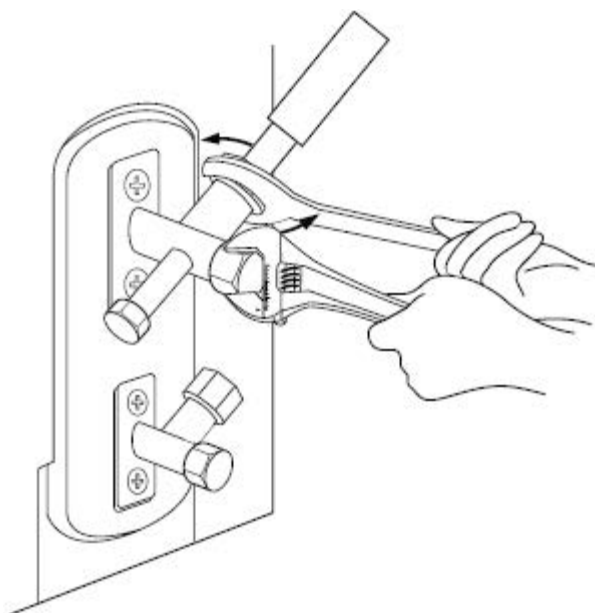
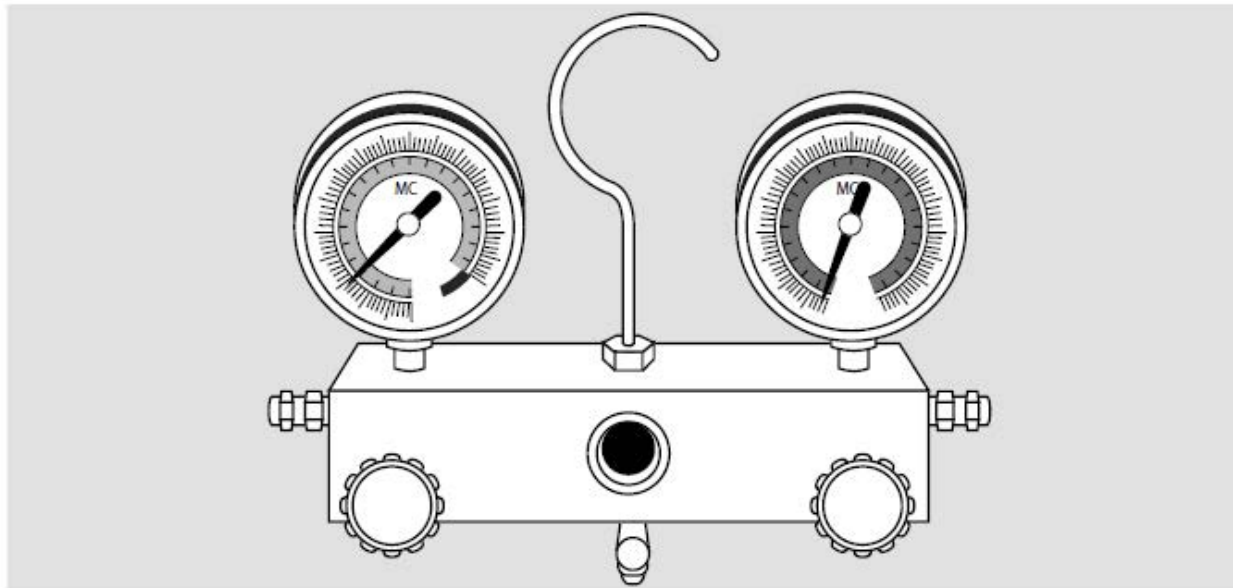


Fig. 5.10



Pregătire și măsuri de siguranță

Aerul și materiile străine din circuitul agentului frigorific pot duce la creșteri anormale de presiune, ce pot avaria aparatul de aer condiționat, pot să-i reducă eficiența și pot cauza vătămare. Utilizați o pompă de vid și o supapă colectoare pentru a evacua circuitul agentului frigorific, îndepărtând gazele ce nu provoacă condens și umezeala din sistem.

Evacuarea trebuie realizată la instalarea inițială și atunci când unitatea este mutată.

ÎNAINTE DE A REALIZA EVACUAREA

- ☑ Verificați pentru a vă asigura că ambele conducte cu presiune ridicată și presiune scăzută dintre unitatea interioară și unitatea exterioară sunt conectate adecvat, conform cu capitolul conectarea conductei de agent frigorific din acest manual.
- ☑ Verificați pentru a vă asigura că toate cablurile sunt conectate adecvat.

Instrucțiuni evacuare

Înainte de utilizarea supapei colectoare și a pompei de vid, citiți manualul lor de utilizare pentru a vă familiariza cu modul de utilizare adecvată a acestora.

1. Conectați furtunul de încărcare la supapa colectoare din portul de service al supapei de presiune scăzută a unității exterioare.
2. Conectați un alt furtun de încărcare din supapa colectoare la pompa de vid.
3. Deschideți partea de presiune scăzută a supapei colectoare. Păstrați partea de presiune crescută închisă.
4. Porniți pompa de vid pentru a evacua sistemul.
5. Lăsați pompa să acționeze timp de cel puțin 15 minute sau până ce contorul integral indică - 70 6 cm Hg (-10^5 Pa).
6. Închideți partea de presiune joasă de pe supapa colectoare apoi opriți pompa de vid.
7. Așteptați 5 minute, apoi verificați dacă există schimbări în presiunea sistemului.

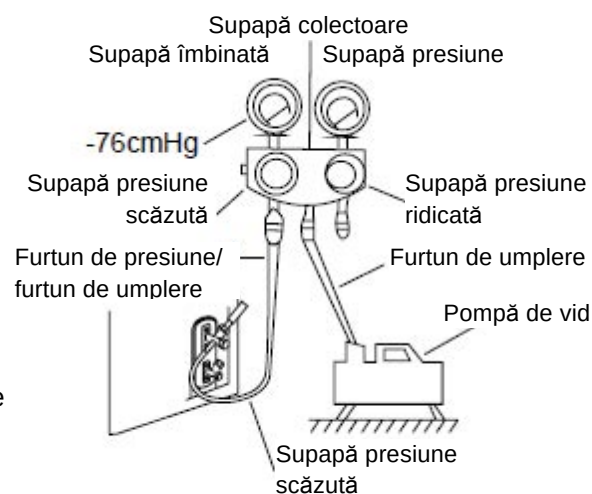


Fig. 6.1

8. Dacă există schimbări în presiunea sistemului, consultați secțiunea Verificarea Scurgerilor de Gaze pentru informații cu privire la modul de verificare a scurgerilor. Dacă nu există schimbări în presiunea sistemului, deșurubați capacul supapei incluse (supapei de presiune crescută).

9. Introduceți o cheie hexagonală în supapa inclusă (supapa de presiune crescută) și deschideți supapa prin rotirea cheii cu 1/4 rotire în sensul invers acelor de ceasornic. Ascultați ieșirea gazului din sistem, apoi închideți supapa după 5 secunde.

10. Monitorizați indicatorul de presiune timp de un minut pentru a vă asigura că nu există schimbări ale presiunii. Indicatorul de presiune trebuie să arate o presiune ușor mai mare decât presiunea atmosferică.

11. Îndepărtați furtunul de încărcare de la portul de service.

12. Utilizați o cheie hexagonală, deschideți atât supapa de presiune crescută cât și supapa de presiune scăzută.

13. Strângeți capacele supapelor pe toate cele 3 supape (portul de service, supapa de presiune scăzută, supapa de presiune crescută) cu mâna. Apoi puteți să le strângeți utilizând o cheie dinamometrică dacă este nevoie.

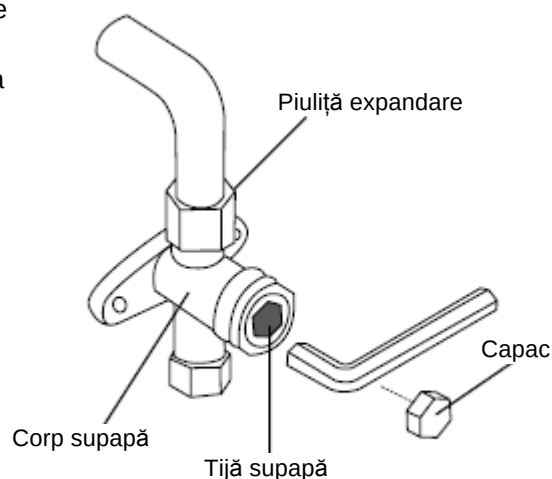


Fig. 6.2



DESCHIDEȚI ÎNCET TIJELE SUPAPEI

Atunci când deschideți tijele supapei, rotiți cheia hexagonală până ce atinge opritorul. Nu încercați să forțați supapa să se deschidă mai mult de atât.

Notă cu privire la adăugarea de agent frigorific

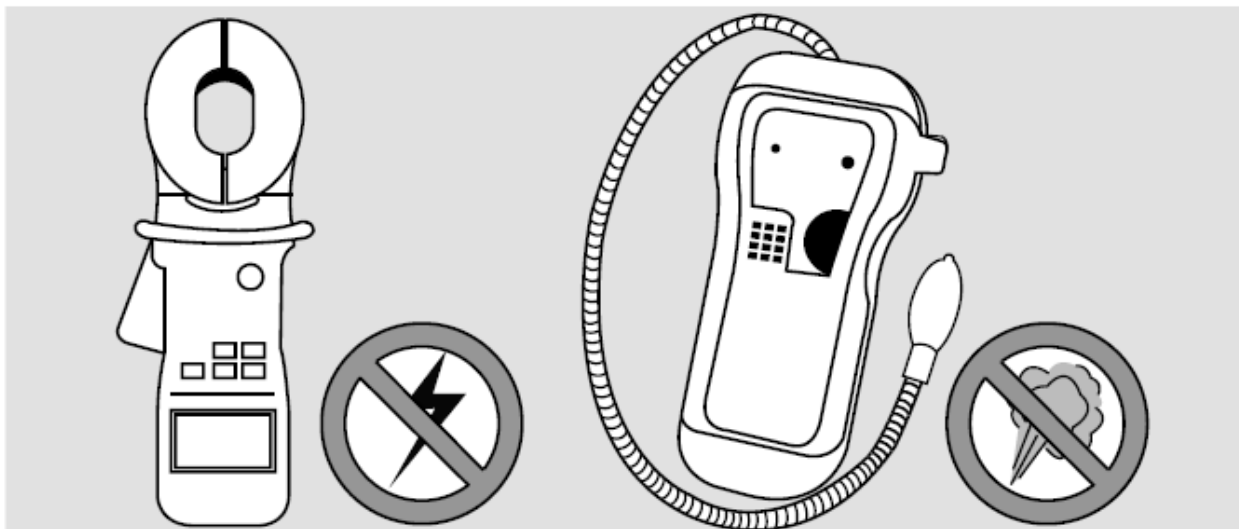
Unele sisteme necesită încărcare suplimentară în funcție de lungimea conductelor. Lungimea standard a conductelor variază conform cu reglementările locale. De exemplu, în America de Nord, lungimea standard a conductei este de 7,5 m (25 in). În alte zone, mărimea standard a conductei este de 5 m (16 in). Agentul frigorific suplimentar ce trebuie încărcat poate fi calculat utilizând următoarea formulă:

LUNGIME CONDUCTĂ AGENT FRIGORIFIC SUPLIMENTAR			
Lungime conductă de corecție (m)	Metoda de purjare aer	Agent frigorific suplimentar	
≤ Lungime standard conductă	Pompă de vid	N/A	
> Lungime standard conductă	Pompă de vid	Partea lichidă: Ø 6,35 (Ø 0,25") R22: (Lungime conductă – lungime standard) x 30g/m (Lungime conductă – lungime standard) x 0,32oz/ft Invertor R410A: (Lungime conductă – lungime standard) x 15g/m (Lungime conductă – lungime standard) x 0,16oz/ft Frecvență fixă R410A: (Lungime conductă – lungime standard) x 20g/m (Lungime conductă – lungime standard) x 0,21oz/ft	Partea lichidă: Ø 9,52 (Ø 0,375") R22: (Lungime conductă – lungime standard) x 60g/m (Lungime conductă – lungime standard) x 0,64oz/ft Invertor R410A: (Lungime conductă – lungime standard) x 30g/m (Lungime conductă – lungime standard) x 0,32oz/ft Frecvență fixă R410A: (Lungime conductă – lungime standard) x 40g/m (Lungime conductă – lungime standard) x 0,42oz/ft



NOTĂ

NU amestecați tipul de agent frigorific.



Verificări electrice de siguranță

După instalare, confirmați că toate cablaje electrice sunt instalate în conformitate cu reglementările locale și naționale și respectând manualul de instalare.

ÎNAINTE DE TESTAREA FUNCȚIONĂRII

Verificați lucrările de împământare

Măsurați rezistența la împământare prin detectarea vizuală și prin testarea rezistenței de împământare.

Rezistența de împământare trebuie să fie mai mică decât 4.

Notă: Acest lucru poate să nu fie necesar pentru anumite locații din SUA.

ÎN TIMPUL TESTĂRII DE FUNCȚIONARE

Verificați pierderile electrice

În timpul testării funcționării, utilizați o sondă de curent electric și un multimetru pentru a realiza un test de pierderi electrice elaborat.

Dacă se detectează pierderi electrice, opriți imediat aparatul și apelați la un electrician autorizat pentru a găsi și a rezolva cauza pierderilor.

Notă: Acest lucru poate să nu fie cerut în unele locații din SUA.



AVERTIZARE – RISC DE ELECTROCUTARE

Toate cablurile trebuie să fie în conformitate cu codurile electrice locale și naționale și trebuie instalate de către un electrician autorizat.

VERIFICĂRI SCURGERI DE GAZE

Există două metode diferite pentru a verifica scurgerile de gaze.

Metoda soluției de apă cu săpun

Utilizând o perie moale, aplicați o soluție de apă cu săpun sau detergent lichid la toate punctele de legătură ale conductelor din unitatea interioară și cea exterioară. Prezența bulelor de aer indică o scurgere.

Metoda detectorului de scurgeri

Dacă utilizați un detector de scurgeri, vă rugăm consultați manualul de utilizare al dispozitivului pentru instrucțiuni de utilizare adecvate.

DUPĂ REALIZAREA VERIFICĂRII DE SCURGERI DE GAZE

După confirmarea că toate punctele de conexiune ale conductelor nu curg, înlocuiți capacul supapei de la unitatea exterioară.

Înainte de testarea funcționării

Realizați testarea de funcționare numai după ce ați îndeplinit următoarele etape:

- Verificările de siguranță electrică – confirmați ca sistemul electric al unității este sigur și funcționează adecvat
- Verificări ale scurgerilor de gaze – verificați toate piulițele de expansiune ale conexiunilor și confirmați că sistemul nu curge.
- Confirmați că sub apele de gaze și deschide (presiune crescută și scăzută) sunt deschise la maxim

Instrucțiuni cu privire la testarea funcționării

Trebuie să realizați testarea funcționării timp de cel puțin 30 de minute.

1. Conectați alimentarea electrică la aparat.
2. Apăsați butonul PORNIRE / OPRIRE (ON/OFF) de pe telecomandă pentru a porni aparatul.
3. Apăsați butonul MODUL (MODE) pentru a alege una din următoarele funcții, câte una pe rând:
 - RĂCIRE (COOL) – alegeți cea mai mică temperatură posibilă
 - ÎNCĂLZIRE (HEAT) – alegeți cea mai mare temperatură posibilă
4. Lăsați fiecare funcție să funcționeze aproximativ 5 minute și realizați următoarele verificări:

Listă de verificări ce trebuie efectuate	TRECUTE/ EȘUATE	
Nu există pierderi electrice		
Aparatul este adecvat împământat		
Toate terminalele electrice sunt acoperite adecvat		
Unitățile interioare și exterioare sunt bine instalate		
Toate punctele de legătură ale conductelor nu curg	Exterior (2)	Interior (2)
Apa se scurge în mod adecvat prin furtunul de scurgere		
Toate conductele sunt izolate în mod adecvat		
Aparatul realizează funcțiile de răcire în mod adecvat		
Aparatul realizează funcțiile de încălzire în mod adecvat		
Fantele unității interioare se rotesc în mod adecvat		
Unitatea interioară răspunde la comenzile telecomenzii		

VERIFICAȚI DE DOUĂ ORI CONEXIUNILE CONDUCTELOR

În timpul funcționării, presiunea circuitului agentului frigorific va crește. Acest lucru poate însemna că există scurgeri ce nu au fost vizibile în timpul testelor inițiale pentru scurgeri. Nu vă grăbiți în timpul testării funcționării și verificați de două ori ca toate punctele de conexiune ale conductelor de agent frigorific să nu prezinte scurgeri. Consultați secțiunea Verificarea Scurgerilor de Gaze pentru instrucțiuni.

După finalizarea cu succes a testării funcționării și după ce confirmați că toate punctele de verificare de pe lista de verificare au fost trecute, faceți următoarele:

- a. Utilizând telecomanda, setați aparatul pe temperatura normală de funcționare.
- b. Utilizând bandă izolatoare, izolați conexiunile conductei de agent frigorific din interior ce pot rămâne descoperite în timpul procesului de instalare al unității interioare.

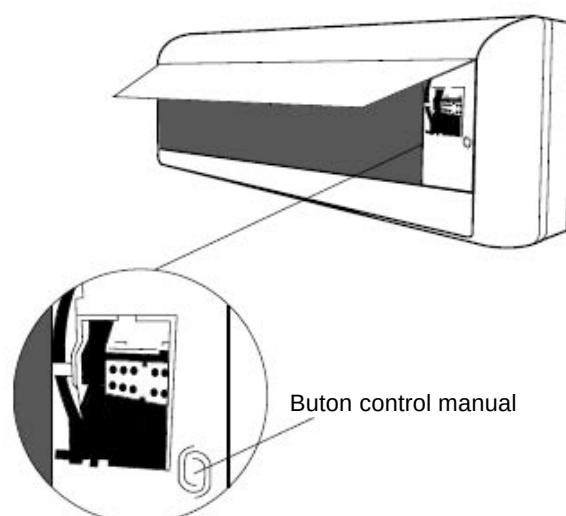


Fig. 8.1

Dacă temperatura ambientală este sub 17°C (63° F)

Nu puteți utiliza telecomanda pentru a porni funcția RĂCIRE(COOL) atunci când temperatura ambientală este sub 17 °C. În acest caz, puteți utiliza butonul de control manual pentru a testa funcția de răcire.

1. Ridicați panoul frontal al unității interioare și opriți-vă atunci când auziți un sunet de clic.
2. Butonul de control manual este localizat în partea dreaptă a unității. Apăsăți acest buton de două ori pentru a alege funcția RĂCIRE (COOL). Consultați Fig.8.1.
3. Realizați testarea funcționării în mod normal.

Acest aparat conține agent frigorific și alte materiale periculoase cu potențial vătămător. Atunci când eliminați acest aparat, legea vă cere o colectare specială și tratament special. Nu aruncați acest produs ca și gunoi menajer sau gunoi municipal nesortat.

Atunci când eliminați acest aparat, aveți următoarele opțiuni:

- Eliminați aparatul în cadrul instituției specializate de colectare a deșeurilor electronice din municipiu.
- La achiziționarea unui nou produs, vânzătorul va lua la schimb vechiul produs fără costuri suplimentare.
- Producătorul va lua înapoi vechiul aparat gratuit.
- Vindeți aparatul către dealeri de fier vechi autorizați.

Notificare specială

Eliminarea produsului în păduri sau pe diverse terenuri din natură pune în pericol sănătatea dvs. și dăunează mediului înconjurător. Substanțe periculoase se pot scurge în pânza freatică și reușesc să pătrundă în lanțul alimentar.



