

ΚΛΙΜΑΤΙΣΤΙΚΑ ΣΥΣΤΗΜΑΤΑ AIR CONDITIONING SYSTEMS

MONTEΛΑ: L3VO-09

L3VO-12

L3VO-16

Outdoor Unit **Owner's Manual** Εξωτερική μονάδα **Εγχειρίδιο Χρήσης**

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

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This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

R410A(R32/125: 50/50): 2087.5

Precautions



WARNING

Operation and Maintenance

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not spray water on indoor unit. It may cause electric shock or malfunction.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Precautions



WARNING

- Maintenance must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - There's abnormal sound during operation.
 - Circuit break trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
- When turning on or turning off the unit by emergency operation switch, please press this switch with an insulating object other than metal.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.

Precautions



WARNING

Attachment

- Installation must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Must follow the electric safety regulations when installing the unit.
- According to the local safety regulations, use qualified power supply circuit and circuit break.
- Do install the circuit break. If not, it may cause malfunction.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Including an circuit break with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Don't use unqualified power cord.
- Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- Properly connect the live wire, neutral wire and grounding wire of power socket.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.

Precautions



WARNING

- Do not put through the power before finishing installation.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- The appliance shall be installed in accordance with national wiring regulations.
- Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
- The air conditioner is the first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- The grounding resistance should comply with national electric safety regulations.
- The appliance must be positioned so that the plug is accessible.
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.

Precautions



WARNING

- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
- If you need to relocate the air conditioner to another place, only the qualified person can perform the work. Otherwise, it may cause personal injury or damage.
- Select a location which is out of reach for children and far away from animals or plants.If it is unavoidable, please add the fence for safety purpose.
- The indoor unit should be installed close to the wall.
- Instructions for installation and use of this product are provided by the manufacturer.

Working temperature range

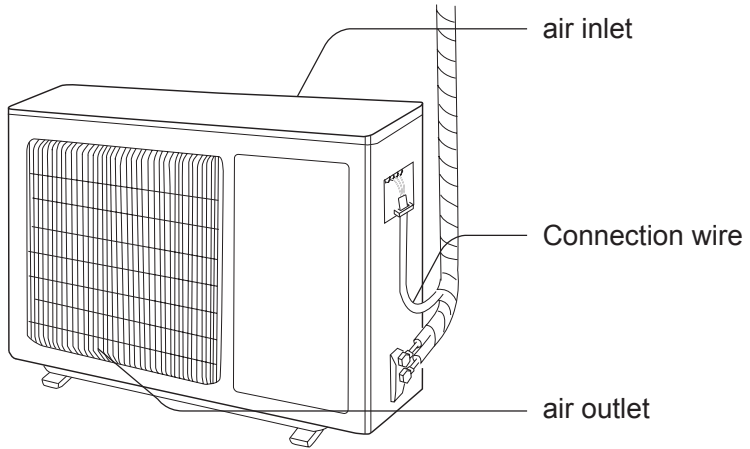
	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)
Maximum cooling	32/23	43/26
Maximum heating	27/-	24/18

NOTICE:

- The operating temperature range (outdoor temperature) for cooling only unit is -15°C ~ 43°C ; for heat pump unit is -15°C ~ 43°C .

Parts name

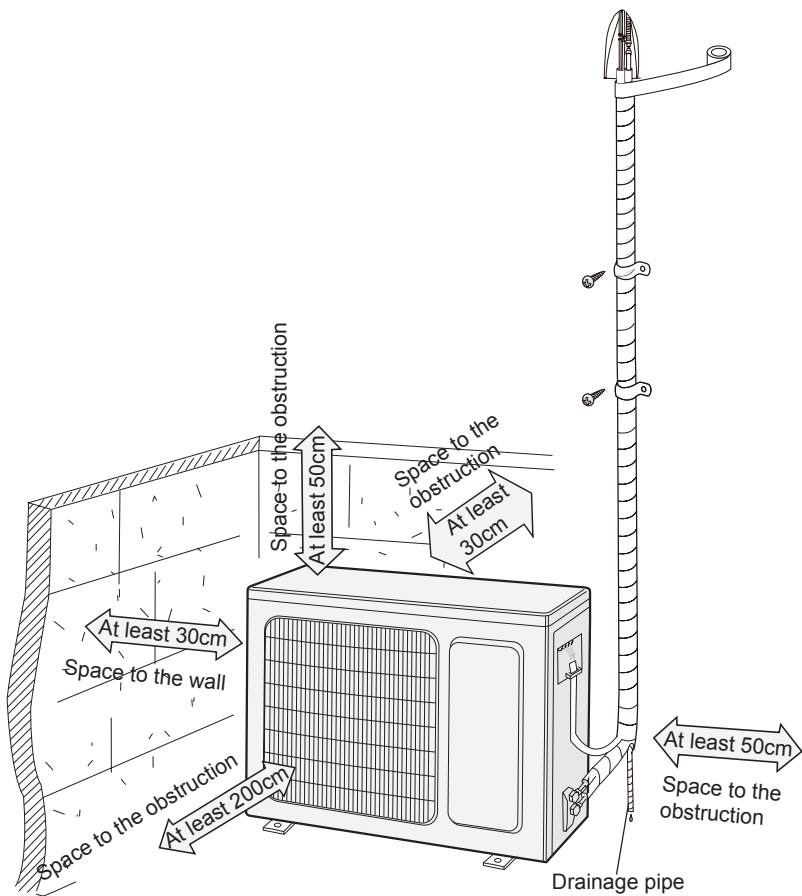
Outdoor Unit



NOTICE:

Actual product may be different from above graphics, please refer to actual products.

Installation dimension diagram



Tools for installation

1 Level meter	2 Screw driver	3 Impact drill
4 Drill head	5 Pipe expander	6 Torque wrench
7 Open-end wrench	8 Pipe cutter	9 Leakage detector
10 Vacuum pump	11 Pressure meter	12 Universal meter
13 Inner hexagon spanner		14 Measuring tape

Note:

- Please contact the local agent for installation.
- Don't use unqualified power cord.

Selection of installation location

Basic requirement

Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult the local dealer:

1. The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
2. The place with high-frequency devices (such as welding machine, medical equipment).
3. The place near coast area.
4. The place with oil or fumes in the air.
5. The place with sulfured gas.
6. Other places with special circumstances.
7. Do not use the unit in the immediate surroundings of a laundry, a bath, a shower, or a swimming pool.

Outdoor unit

1. Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
2. The location should be well ventilated and dry, in which the outdoor unit won't be exposed directly to sunlight or strong wind.
3. The location should be able to withstand the weight of outdoor unit.
4. Make sure that the installation follows the requirement of installation dimension diagram.
5. Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.

Requirements for electric connection

Safety precaution

1. Must follow the electric safety regulations when installing the unit.
2. According to the local safety regulations, use qualified power supply circuit and circuit break.
3. Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
4. Properly connect the live wire, neutral wire and grounding wire of power socket.
5. Be sure to cut off the power supply before proceeding any work related to electricity and safety.
6. Do not put through the power before finishing installation.
7. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
8. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
9. The appliance shall be installed in accordance with national wiring regulations.
10. Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only

Grounding requirement

1. The air conditioner is the first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
2. The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
3. The grounding resistance should comply with national electric safety regulations.
4. The appliance must be positioned so that the plug is accessible.
5. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
6. Including an circuit break with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

Air-conditioner	Circuit break capacity
09K	10A
12K	10A

Installation of outdoor unit

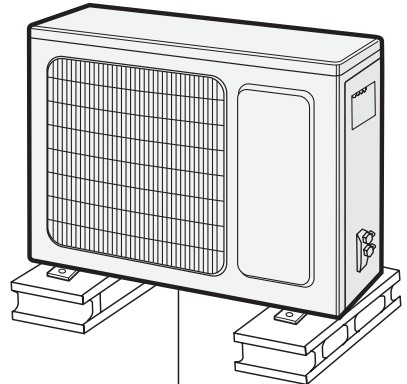
Step one: fix the support of outdoor unit

(select it according to the actual installation situation)

1. Select installation location according to the house structure.
2. Fix the support of outdoor unit on the selected location with expansion screws.

Note:

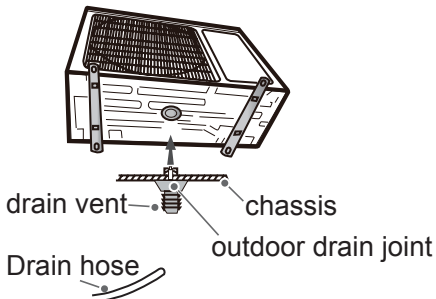
- Take sufficient protective measures when installing the outdoor unit.
- Make sure the support can withstand at least four times of the unit weight.
- The outdoor unit should be installed at least 3cm above the floor in order to install drain joint.
- For the unit with cooling capacity of 2300W ~5000W, 6 expansion screws are needed;
for the unit with cooling capacity of 6000W ~8000W, 8 expansion screws are needed;
for the unit with cooling capacity of 10000W ~16000W, 10 expansion screws are needed.



at least 3cm above the floor

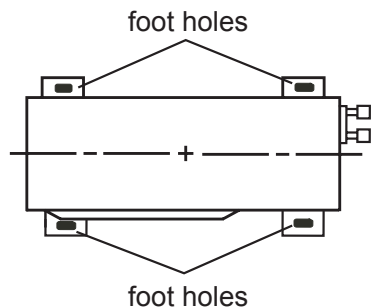
Step two: install drain joint (Only for cooling and heating unit)

1. Connect the outdoor drain joint into the hole on the chassis, as shown in the picture below.
2. Connect the drain hose into the drain vent.



Step three: fix outdoor unit

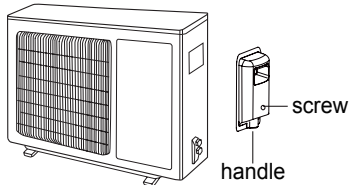
1. Place the outdoor unit on the support.
2. Fix the foot holes of outdoor unit with bolts.



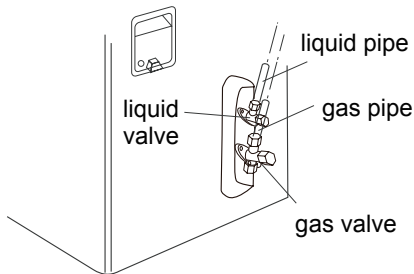
Installation of outdoor unit

Step four: connect indoor and outdoor pipes

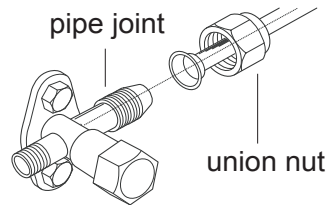
1. Remove the screw on the right handle of outdoor unit and then remove the handle.



2. Remove the screw cap of valve and aim the pipe joint at the bellmouth of pipe.



3. Pretightening the union nut with hand.

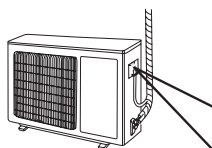


4. Tighten the union nut with torque wrench by referring to the sheet below.

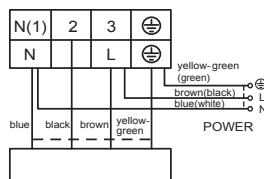
Hex nut diameter	Tightening torque (N·m)
Φ 6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

Step five: connect outdoor electric wire

1. Remove the wire clip; connect the power connection wire and signal control wire (only for Heat pump type) to the wiring terminal according to the color; fix them with screws.



09、12K Cool only type and Heat pump type: (for some model)



Indoor unit connection

Installation of outdoor unit

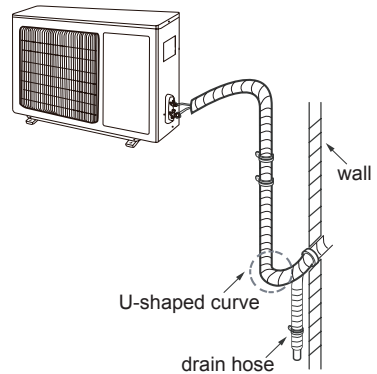
2. Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

Note:

- After tighten the screw, pull the power cord slightly to check if it is firm.
- Never cut the power connection wire to prolong or shorten the distance.

Step six: neaten the pipes

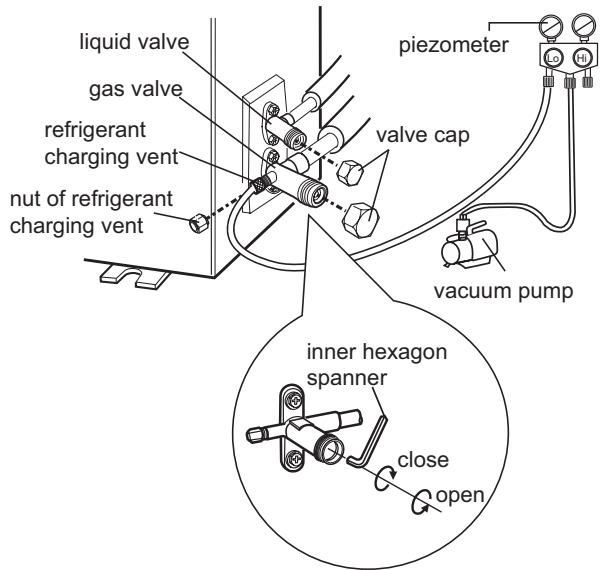
1. The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
2. If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting into the room.



Vacuum pumping

Use vacuum pump

1. Remove the valve caps on the liquid valve and gas valve and the nut of refrigerant charging vent.
2. Connect the charging hose of piezometer to the refrigerant charging vent of gas valve and then connect the other charging hose to the vacuum pump.
3. Open the piezometer completely and operate for 10-15min to check if the pressure of piezometer remains in -0.1MPa .
4. Close the vacuum pump and maintain this status for 1-2min to check if the pressure of piezometer remains in -0.1MPa . If the pressure decreases, there may be leakage.
5. Remove the piezometer, open the valve core of liquid valve and gas valve completely with inner hexagon spanner.
6. Tighten the screw caps of valves and refrigerant charging vent.
7. Reinstall the handle.



Leakage detection

1. With leakage detector:
Check if there is leakage with leakage detector.
2. With soap water:
If leakage detector is not available, please use soap water for leakage detection. Apply soap water at the suspected position and keep the soap water for more than 3min. If there are air bubbles coming out of this position, there's a leakage.

Check after installation

- Check according to the following requirement after finishing installation.

Items to be checked	Possible malfunction
Has the unit been installed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling (heating) capacity.
Is heat insulation of pipeline sufficient?	It may cause condensation and water dripping.
Is water drained well?	It may cause condensation and water dripping.
Is the voltage of power supply according to the voltage marked on the nameplate?	It may cause malfunction or damaging the parts.
Is electric wiring and pipeline installed correctly?	It may cause malfunction or damaging the parts.
Is the unit grounded securely?	It may cause electric leakage.
Does the power cord follow the specification?	It may cause malfunction or damaging the parts.
Is there any obstruction in the air inlet and outlet?	It may cause insufficient cooling (heating) capacity.
The dust and sundries caused during installation are removed?	It may cause malfunction or damaging the parts.
The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.

Test operation

1. Preparation of test operation

- The client approves the air conditioner.
- Specify the important notes for air conditioner to the client.

2. Method of test operation

- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than 16°C , the air conditioner can't start cooling.

Configuration of connection pipe

1. Standard length of connection pipe
 - 5m, 7.5m, 8m.
2. Min. length of connection pipe is 3m.
3. Max. length of connection pipe and max. high difference.

Cooling capacity	Max length of connection pipe	Max height difference
5000Btu/h (1465W)	15	5
7000Btu/h (2051W)	15	5
9000Btu/h (2637W)	15	5
12000Btu/h (3516W)	20	10
18000Btu/h (5274W)	25	10

Cooling capacity	Max length of connection pipe	Max height difference
24000Btu/h (7032W)	25	10
28000Btu/h (8204W)	30	10
36000Btu/h (10548W)	30	20
42000Btu/h (12306W)	30	20
48000Btu/h (14064W)	30	20

4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe
 - After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.
 - The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

$$\text{Additional refrigerant charging amount} = \text{prolonged length of liquid pipe} \times \text{additional refrigerant charging amount per meter}$$
 - Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.

Configuration of connection pipe

Additional refrigerant charging amount for R22, R407C, R410A and R134a

Diameter of connection pipe		Outdoor unit throttle	
Liquid pipe(mm)	Gas pipe(mm)	Cooling only(g/m)	Cooling and heating(g/m)
Φ6	Φ9.52 or Φ12	15	20
Φ6 or Φ9.52	Φ16 or Φ19	15	50
Φ12	Φ19 or Φ22.2	30	120
Φ16	Φ25.4 or Φ31.8	60	120
Φ19	—	250	250
Φ22.2	—	350	350

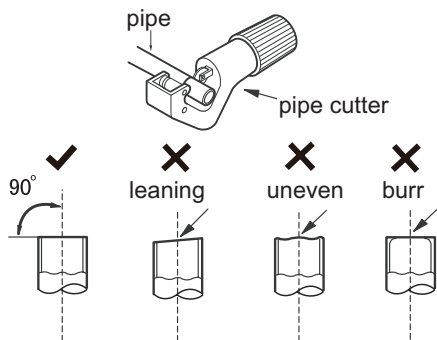
Pipe expanding method

Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

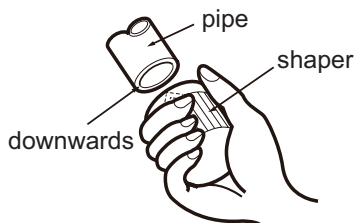
A: Cut the pipe

- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B: Remove the burrs

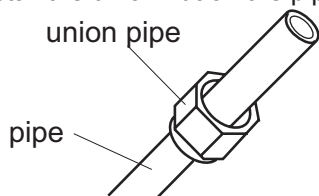
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

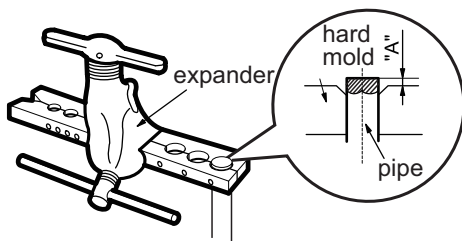
D: Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



E: Expand the port

- Expand the port with expander.



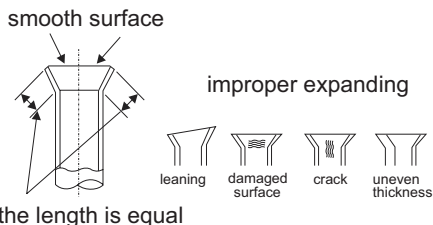
Note:

- "A" is different according to the diameter, please refer to the sheet below:

Outer diameter (mm)	A(mm)	
	Max	Min
Φ6-6.35(1/4")	1.3	0.7
Φ9.52(3/8")	1.6	1.0
Φ12-12.7(1/2")	1.8	1.0
Φ15.8-16(5/8")	2.4	2.2

F: Inspection

- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.



Περιεχόμενα

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Αυτή η συσκευή δεν προορίζεται για χρήση από άτομα (συμπεριλαμβανομένων και των παιδιών) με μειωμένες σωματικές, αισθητηριακές ή διανοητικές ικανότητες ή από έλλειψη εμπειρίας και γνώσης, εκτός αν επιβλέπονται από άτομο υπεύθυνο για την ασφάλειά τους, ή αν τους έχουν δοθεί οδηγίες σχετικά με τη χρήση της συσκευής. Πρέπει να διασφαλίζεται ότι τα παιδιά δεν παίζουν με τη συσκευή.



Αυτή η σήμανση υποδεικνύει ότι αυτό το προϊόν δεν πρέπει να απορρίπτεται μαζί με τα υπόλοιπα οικιακά απορρίμματα σε όλη την ΕΕ. Προκειμένου να αποφευχθούν ενδεχόμενες βλαβερές συνέπειες στο περιβάλλον ή την ανθρώπινη υγεία εξαιτίας της ανεξέλεγκτης διάθεσης αποβλήτων, ανακυκλώστε την συσκευή σας, ώστε να βοηθήσετε στην βιώσιμη επαναχρησιμοποίηση των υλικών. Για να επιστρέψετε την χρησιμοποιημένη συσκευή σας, αναζητήστε τα συστήματα επιστροφής και συλλογής ή επικοινωνήστε με το κατάστημα από το οποίο αγοράσατε το προϊόν. Μπορούν να λάβουν αυτό το προϊόν για ασφαλή ανακύκλωση και προστασία του περιβάλλοντος.

R410A(R32/125: 50/50): 2087.5



Λειτουργία και Συντήρηση

- Αυτή η συσκευή μπορεί να χρησιμοποιηθεί από παιδιά ηλικίας 8 χρονών και άνω και από άτομα με μειωμένες σωματικές, αισθητηριακές ή διανοητικές ικανότητες ή έλλειψη εμπειρίας και γνώσης, εφόσον έχουν τύχει επίβλεψης ή εκπαίδευσης αναφορικά με τη ασφαλή χρήση της συσκευής και να κατανοούν τους κινδύνους που συνδέονται με αυτό.
- Τα παιδιά δεν πρέπει να παίζουν με τη συσκευή.
- Ο Καθαρισμός και η συντήρηση της μονάδας δεν θα πρέπει να γίνεται από παιδιά χωρίς επίβλεψη.
- Μην συνδέετε το κλιματιστικό σε προσαρμογέα (adaptor). Διαφορετικά μπορεί να προκληθεί πυρκαγιά
- Κατα τον καθαρισμό της μονάδας αποσυνδέστε την από την παροχή ρεύματος. Διαφορετικά, μπορεί να προκληθεί ηλεκτροπληξία.
- Εάν το καλώδιο τροφοδοσίας έχει υποστεί ζημιά, πρέπει να αντικατασταθεί από τον αντιπρόσωπο σέρβις ή από άλλο εξειδικευμένο πρόσωπο, προκειμένου να αποφευχθεί ο κίνδυνος.
- Μην πλένετε το κλιματιστικό με νερό για να αποφύγετε ηλεκτροπληξία.
- Μην ψεκάζετε νερό πάνω εσωτερική μονάδα. Μπορεί να προκαλέσει ηλεκτροπληξία ή δυσλειτουργία.
- Μετά την αφαίρεση του φίλτρου, μην αγγίζετε τα πτερύγια για την αποφυγή τραυματισμού.
- Μη χρησιμοποιείτε φωτιά ή πιστολάκι μαλλιών για να στεγνώσει το φίλτρο για την αποφυγή παραμορφώσεων ή τον κίνδυνο πυρκαγιάς.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

- Η συντήρηση πρέπει να εκτελείται από εξειδικευμένο επαγγελματία. Διαφορετικά, μπορεί να προκαλέσει τραυματισμούς ή ζημιά.
- Μην επισκευάζετε το κλιματιστικό μόνοι σας. Μπορεί να προκληθεί ηλεκτροπληξία ή βλάβη. Παρακαλούμε επικοινωνήστε με τον αντιπρόσωπο, όταν θα πρέπει να επιδιορθώσετε το κλιματιστικό. Μην προτάσσετε τα δάχτυλα σας ή μη πετάτε αντικείμενα μέσα στην είσοδο αέρα ή την έξοδο του αέρα. Ειδάλλως μπορεί να προκληθούν τραυματισμοί ή ζημιές.
- Μην εμποδίζετε την έξοδο ή είσοδο αέρα. Μπορεί να προκαλέσει δυσλειτουργία.
- Μην ρίχνετε νερό στο τηλεχειριστήριο, ειδάλλως το τηλεχειριστήριο θα χαλάσει
- Όταν ισχύουν κάποια από τα παρακάτω φαινόμενα, παρακαλούμε να απενεργοποιήσετε το κλιματιστικό και αποσυνδέστε την παροχή ρεύματος αμέσως, και, στη συνέχεια, επικοινωνήστε με τον αντιπρόσωπο ή εξειδικευμένους επαγγελματίες για την συντήρηση/επισκευή:
 - Το καλώδιο παροχής ρεύματος έχει υπερθερμανθεί ή έχει υποστεί ζημιά
 - Υπάρχει αφύσικος ήχος κατά τη λειτουργία.
 - Τακτικές πτώσεις τάσεις
 - Η κλιματιστική μονάδα αναδίδει μυρωδιά καμμένου
 - Η εσωτερική μονάδα έχει διαρροή
- Αν το κλιματιστικό λειτουργεί κατώ από μη φυσιολογικές συνθήκες, μπορεί να προκαλέσει δυσλειτουργία, ηλεκτροπληξία ή κίνδυνο πυρκαγιάς.
- Σε περίπτωση που χρειαστεί να ενεργοποιήσετε ή να απενεργοποιήσετε το διακόπτη εκτακτής λειτουργίας χρησιμοποιήστε κάποιο μονωτικό υλικό. Μην χρησιμοποιήσετε υλικό από μεταλλό.
- Μην πατάτε πάνω στην εξωτερική μονάδα ή μη τοποθετείτε βαριά αντικείμενα. Αυτό μπορεί να προκαλέσει βλάβη ή τραυματισμό



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

Συνδεσμολογία

- Η εγκατάσταση πρέπει να εκτελείται από ειδικευμένους επαγγελματίες.
- Διαφορετικά, μπορεί να προκληθεί τραυματισμός ή βλάβη. Πρέπει να ακολουθηθούν όλες οι οδηγίες ασφαλείας που αφορούν τα ηλεκτρικά μέρη κατά την εγκατάσταση της μονάδας.
- Σύμφωνα με τις οδηγίες ασφαλείας, χρησιμοποιήστε κατάλληλο κύκλωμα παροχής ρεύματος και διακόπτη κυκλώματος.
- Σιγουρευτείτε ότι στην μονάδα έχει εγκατασταθεί ασφάλεια. Ειδικά μπορεί να προκαλέσει δυσλειτουργία.
- Ένας διακόπτης αποσύνδεσης με διαχωρισμό επαφής τουλάχιστον 3 χιλιοστά σε όλους τους πόλους πρέπει να είναι συνδεδεμένος στη σταθερή καλωδίωση.
- Η ασφάλεια θα πρέπει να έχει το σωστό μέγεθος. Ο ασφαλειοδιακόπτης να είναι εξοπλισμένος κατάλληλα έτσι ώστε να αποφεύγονται βραχυκυκλώματα.
- Το κλιματιστικό πρέπει να είναι γειωμένο. Ανακριβής γείωση μπορεί να προκαλέσει ηλεκτροπληξία.
- Μη χρησιμοποιείτε ακατάλληλη καλωδίωση.
- Βεβαιωθείτε ότι η παροχή ρεύματος αντιστοιχεί στις απαιτήσεις του κλιματιστικού. Ασταθής τροφοδοσία ή λανθασμένη καλωδίωση μπορεί να προκαλέσει δυσλειτουργία. Παρακαλώ εγκαταστήστε την κατάλληλη καλωδίωση πριν από τη χρήση του κλιματιστικού.
- Συνδέστε σωστά την πρίζα στην υποδοχή.
- Βεβαιωθείτε ότι αποσυνδέετε την μονάδα από την παροχή ρεύματος πριν προχωρήσετε σε οποιαδήποτε εργασία που σχετίζεται με την παροχή ηλεκτρικού ρεύματος και την ασφάλεια.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

- Μην ενεργοποιείτε το ρεύμα αν πρώτα δεν έχετε ολοκληρώσει την εγκατάσταση
- Εάν το καλώδιο τροφοδοσίας έχει υποστεί ζημιά, πρέπει να αντικατασταθεί από τον αντιπρόσωπο σέρβις ή από εξειδικευμένα άτομα, προς αποφυγή κινδύνου.
- Η θερμοκρασία του ψυκτικού κυκλώματος θα είναι υψηλή, παρακαλώ κρατήστε το καλώδιο διασύνδεσης μακριά από το σωλήνα χαλκού
- Η συσκευή πρέπει να εγκατασταθεί σύμφωνα με τους εθνικούς κανονισμούς καλωδίωσης
- Η εγκατάσταση πρέπει να εκτελείται μόνο από εξουσιοδοτημένο προσωπικό (σύμφωνα με τα πρότυπα NEC και CEC)
- Το κλιματιστικό είναι η πρώτης κατηγορίας ηλεκτρική συσκευή. Θα πρέπει να είναι κατάλληλα συνδεδεμένη από έναν επαγγελματία. Παρακαλώ βεβαιωθείτε ότι είναι πάντα γειωμένη αποτελεσματικά, διαφορετικά μπορεί να προκληθεί ηλεκτροπληξία.
- Το κίτρινο-πράσινο σύρμα στο κλιματιστικό είναι καλώδιο γείωσης και δεν μπορεί να χρησιμοποιηθεί για άλλους σκοπούς
- Η αντίσταση γείωσης θα πρέπει να συμμορφώνεται με τους εθνικούς κανόνες ηλεκτρικής ασφαλείας.
- Η συσκευή πρέπει να τοποθετείται έτσι ώστε η πρίζα να είναι προσβάσιμη
- Η καλωδίωση τόσο της εξωτερικής μονάδας όσο και της εσωτερικής μονάδας πρέπει να πραγματοποιηθεί από εξειδικευμένο προσωπικό
- Αν το μήκος του καλωδίου σύνδεσης δεν επαρκεί, παρακαλώ επικοινωνήστε με τον προμηθευτή για ένα νέο. Αποφύγετε την επέκταση του από μόνοι σας.



ΠΡΟΕΙΔΟΠΟΙΗΣΗ

- Για το κλιματιστικό με βύσμα, το βύσμα θα πρέπει να είναι προσβάσιμο μετά την ολοκλήρωση της εγκατάστασης.
- Για το κλιματιστικό χωρίς βύσμα, πρέπει να εγκατασταθεί στη γραμμή μια ασφαλεία λειτουργίας.
- Αν χρειαστεί να μετεγκαταστήσετε το κλιματιστικό σε άλλο μέρος, απευθυνθείτε σε εξειδικευμένο προσωπικό. Διαφορετικά, μπορεί να προκληθεί τραυματισμός ή βλάβη
- Επιλέξτε μια θέση που είναι μακριά από τα παιδιά και μακριά από τα ζώα ή τα φυτά. Αν είναι αναπόφευκτη η παρουσία, προσθέστε ένα φράχτη για ασφάλεια.
- Η εσωτερική μονάδα θα πρέπει να εγκατασταθεί στον τοίχο.

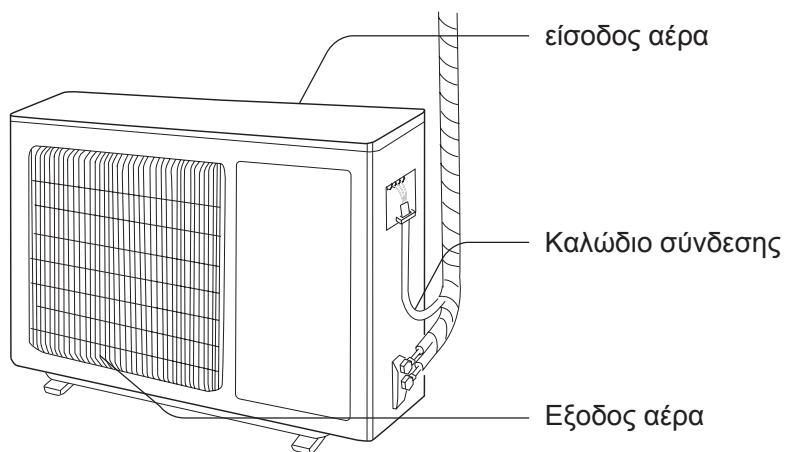
Θερμοκρασία λειτουργίας

	Εσωτερική μονάδα DB / WB (° C)	Εξωτερική μονάδα DB / WB (° C)
Μέγιστη ψύξη	32/23	43/26
Μέγιστη θέρμανση	27/-	24/18

Σημείωση:

- Το εύρος λειτουργίας θερμοκρασίας (εξωτερική θερμοκρασία) για την ψύξη είναι -15°C ~ 43°C.

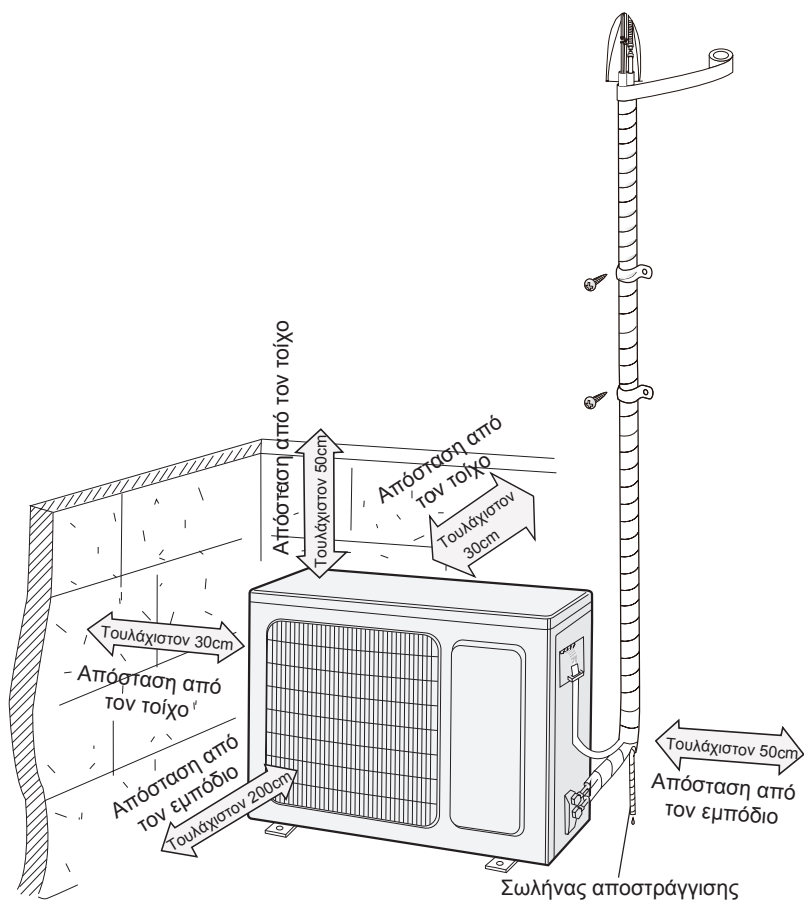
Εξωτερική Μονάδα



Σημείωση:

Το παραπάνω σχεδιάγραμμα είναι σχεδιαστική προσέγγιση του προϊόντος. Η εξωτερική μονάδα μπορεί να διαφέρει.

Διάγραμμα Εγκατατάστασης



Εργαλεία για την εγκατάσταση

1 Αλφάδι	2 Κατσαβίδι	3 Κρουστικό Δράπανο
4 Κεφαλή τρυπανιού	5 Εκχυλωτή χαλκοσωλήνα	6 Δυναμόκλειδο
7 Κλειδί τύπου Άλεν	8 Κόφτη σωλήνα	9 Ανιχνευτή διαρροής
10 Αντλία κενού	11 Μετρητής Πίεσης	12 Μέτρο
13 Εσωτερικό εξάγωνο κλειδί		14 Ταινία μετρήματος

Σημείωση:

- Παρακαλούμε καλέστε το εξουσιοδοτημένο σέρβις ή πιστοποιημένο τεχνικό για την εγκατάσταση του κλιματιστικού σας
- Μην χρησιμοποιείτε ακατάλληλο καλώδιο παροχής ρεύματος

Επιλογή τοποθεσίας για την τοποθέτηση της μονάδας

Βασικές Προυποθέσεις

Η εγκατάσταση του κλιματιστικού στα κάτωθι μέρη μπορεί να προκαλέσει δυσλειτουργίες. Σε περίπτωση που δεν υπάρχει άλλη εναλλακτική παρακαλούμε συμβουλευτείτε το σημείο πώλησης ή την αντιπροσωπεία.

1. Μέρη με δυνατή εστία θερμότητας ή ατμού ή εύφλεκτων αερίων ή συνδυασμό των παραπάνω.
2. Μέρη με υψηλή συχνότητα ηλεκτρομαγνητικών κυμάτων όπως ραδιόφωνα, ιατρικά μηχανήματα κλπ.
3. Παράκτιες περιοχές.
4. Μέρη όπου υπάρχουν λάδια ή βιομηχανικά αέρια.
5. Μέρη όπου υπάρχει θειικό αέριο.
6. Άλλα μέρη όπου επικρατούν ιδιαίτερες συνθήκες.
7. Μην χρησιμοποιείτε/τοποθετείτε την μονάδα σε περιοχές που υπάρχει αμεσότητα σε μπάνιο, πισίνα ή σε μέρος όπου υπάρχει πλυντήριο.

Εξωτερική μονάδα

1. Επιλέξτε ένα σημείο όπου ο θόρυβος και ο αέρας που βγαίνει από τη μονάδα δεν θα ενοχλεί του γείτονες.
2. Επιλέξτε ένα σημείο όπου υπάρχει επαρκής κυκλοφορία του αέρα, είναι στεγνό και δεν εκτίθεται στην άμεση ακτινοβολία του ήλιου ή σε δυνατούς ανέμους.
3. Επιλέξτε ένα σημείο όπου θα επαρκεί για να στηριχθεί το βάρος της μονάδας
4. Βεβαιωθείτε ότι η μονάδα θα εγκατασταθεί βάσει των οδηγιών του σχεδιαγράμματος διαστάσεων εγκατάστασης.
5. Επιλέξτε ένα σημείο που δεν έχουν πρόσβαση παιδιά, ζώα ή φυτά. Εάν αυτό δεν είναι εφικτό, παρακαλούμε τοποθετήστε ένα φράχτη προστασίας για λόγους ασφαλείας

Απαιτήσεις ηλεκτρολογικής σύνδεσης

Οδηγίες Ασφάλειας

1. Πρέπει να ακολουθούνται πιστά όλοι οι κανόνες που διέπουν τους τοπικούς κανονισμούς κατα την εγκατάσταση.
2. Σύμφωνα με τους τοπικούς κανονισμούς, χρησιμοποιήστε κατάλληλο κύκλωμα παροχής ρεύματος και ασφαλειοδιακόπτη.
3. Βεβαιωθείτε πως η παροχή ρεύματος συνάδει με τις απαιτήσεις του κλιματισμού.
4. Συνδέστε σωστά το καλώδιο της φάσης, του ουδέτερου και το καλώδιο γείωσης στην πρίζα.
5. Βεβαιωθείτε πως έχετε διακόψει την παροχή ρεύματος πριν προχωρήσετε σε οποιαδήποτε εργασία έχει να κάνει με το ρεύμα και την ασφάλεια.
6. Μην επαναφέρετε την παροχή ρεύματος πριν τελειώσετε την εγκατάσταση.
7. Σε περίπτωση που το καλώδιο παροχής ρεύματος είναι κατεστραμμένο πρέπει να αντικατασταθεί μόνο από εξειδικευμένο τεχνικό ώστε να αποφευχθεί πιθανός τραυματισμός.
8. Η θερμοκρασία του ψυκτικού κυκλώματος θα είναι υψηλή. Κρατήστε το καλώδιο μακριά από τους ψυκτικούς σωλήνες χαλκού.
9. Η συσκευή πρέπει να εγκατασταθεί με βάση τους διεθνείς κανονισμούς καλωδίσεων.
10. Η εγκατάσταση πρέπει να εκτελείται μόνο από εξουσιοδοτημένο προσωπικό (σύμφωνα με τα πρότυπα NEC και CEC).

Απαιτήσεις Γείωσης

1. Το κλιματιστικό σας είναι ηλεκτρική συσκευή ηλεκτρικής κλάσης Α'. Πρέπει να υπάρχει κατάλληλη γείωση , με ειδική συσκευή γείωσης από εξειδικευμένο τεχνικό. Βεβαιωθείτε πως η γείωση είναι πάντα αποσπασματική. Σε διαφορετική περίπτωση μπορεί να προκληθεί ηλεκτροπληξία.
2. Το καλώδιο της γείωσης στο κλιματιστικό είναι κίτρινο-πράσινο και δεν μπορεί να χρησιμοποιηθεί για άλλο σκοπό.
3. Η αντίσταση γείωσης πρέπει να είναι σύμφωνη με τους εθνικούς κανονισμούς ασφάλειας ηλεκτρικών εγκαταστάσεων.
4. Η σύσκευή πρέπει να τοποθετηθεί σε μέρος όπου η πρίζα είναι προσβάσιμη με ευκολία.
5. Ένας διακόπτης πρέπει να εγκατασταθεί με 3 χιλιοστά άνοιγμα επαφής σε όλους τους πόλους.
6. Ο ασφαλειοδιακόπτης θα πρέπει να είναι αντίστοιχος με την παροχή της μονάδας και θα πρέπει να διαθέτει μαγνητική και θερμική προστασία για την προστασία από βραχυκύκλωμα και υπερφόρτιση (ΠΡΟΣΟΧΗ: μην χρησιμοποιείτε μόνο ασφάλεια για να προστατεύεται το κύκλωμα)

Απόδοση κλιματιστικού	Απαιτούμενη Ασφάλεια παροχής ρεύματος
09K	10A
12K	10A
18K	10A

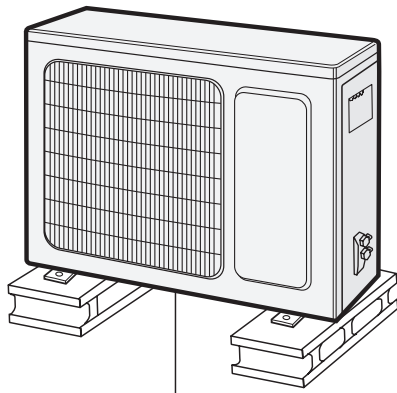
Εγκατάσταση της εξωτερικής μονάδας

Βήμα Πρώτο: Τοποθετήστε σωστά τη βάση στήριξης της εξωτερικής μονάδας

1. Επιλέξτε το σωστό μέρος για την τοποθέτηση της εξωτερικής μονάδας σύμφωνα με την δομή του σπιτιού
2. Τοποθετήστε σωστά τη βάση στήριξης της εξωτερικής μονάδας στο σημείο που έχετε επιλέξει χρησιμοποιώντας τις αντίστοιχες βίδες

Note:

- Πάρτε όλα τα απαραίτητα μέτρα προφύλαξης κατά την εγκατάσταση της εξωτερικής μονάδας
- Βεβαιωθείτε πως η βάση στήριξης μπορεί να αντέξει τουλάχιστον τέσσερις φορές το βάρος της εξωτερικής μονάδας
- Η εξωτερική μονάδα πρέπει να εγκατασταθεί τουλάχιστον 3 εκατοστά πάνω από το πάτωμα έτσι ώστε να είναι εφικτή η εγκατάσταση του σωλήνα αποστράγγισης
- Για τα κλιμαστικά με απόδοση 2300W~5000W, χρειάζονται 6 βίδες στερέωσης. Για τα κλιμαστικά με απόδοση 6000W~8000W, χρειάζονται 8 βίδες ενώ για τα κλιμαστικά με απόδοση 10000W~16000W, χρειάζονται 10 βίδες στερέωσης.

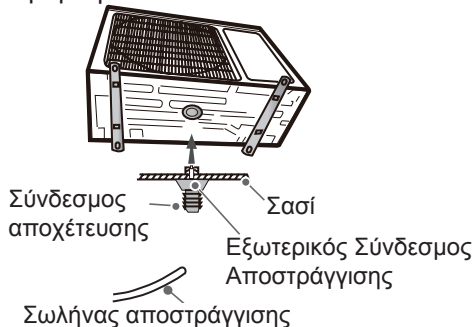


Τουλάχιστον 3 εκατοστά από το δάπεδο

Βήμα Δεύτερο: Εγκατάσταση σωλήνα αποστράγγισης

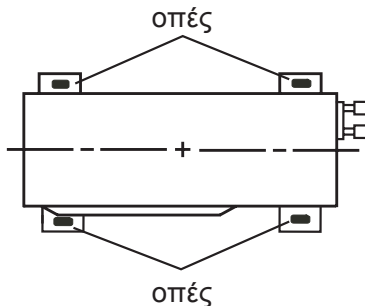
1. Συνδέστε τον ειδικό πλαστικό σύνδεσμο της αποχέτευσης στο μεταλλικό πλαίσιο της βάσης όπως φαίνεται στο παρακάτω σχεδιάγραμμα.

2. Συνδέστε στον ειδικό σύνδεσμο με την σωλήνα αποστράγγισης και φροντίστε η απορροή της να καταλήγει σε σιφόνι ή υδρόροη.



Βήμα Τρίτο: Στερέωση εξωτερικής μονάδας

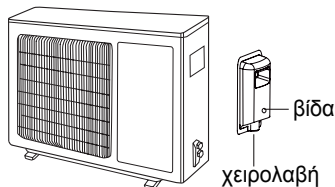
1. Τοποθετήστε την εξωτερική μονάδα στην βάση της
2. Βιδώστε την στην βάση με αντίστοιχες βίδες και παξιμάδια



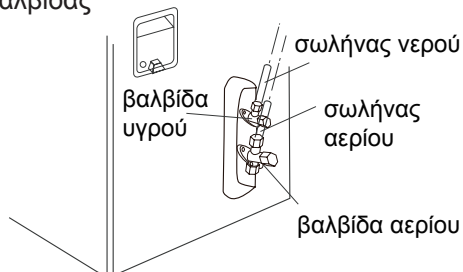
Εγκατάσταση της εξωτερικής μονάδας

Βήμα Τέταρτο: Σύνδεση ψυκτικών σωληνώσεων

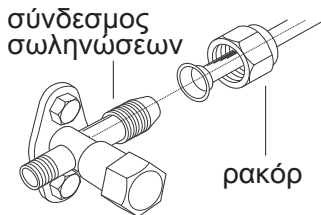
1. Αφαιρέστε τη βίδα από το πλαϊνό πλαστικό κάλυμμα και στην συνέχεια αφιρέστε το κάλυμμα.



2. Αφαιρέστε το μεταλλικό καπάκι της κάθε βαλβίδας και στην συνέχεια ενώστε τις σωληνώσεις με το χείλος της κάθε βαλβίδας



3. Συσφίξτε ελαφρώς το ρακόρ με το χέρι

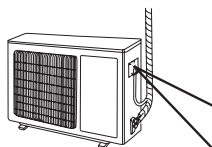


4. Συσφίξτε το ρακόρ με δυναμόκλειδο με την αντίστοιχη ροπή όπως αναφέρεται στο παρακάτω πίνακα.

Διάμετρος Ρακόρ	Ροπή σύσφιξης (N·m)
Φ 6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

Βήμα Πέμπτο: Σύνδεση των καλωδίων παροχής ρεύματος και επικοινωνίας

1. Αφαιρέστε το πλαστικό κάλυμμα των ηλεκτρολογικών συνδέσεων, και συνδέστε το καλώδιο της παροχής ρεύματος και της επικοινωνίας στις αντίστοιχες θέσεις σύμφωνα με το χρώμα και την ονοματολογία.



09,12,18K Για μοντέλα με λειτουργία μόνο ψύξη, για μοντέλα με λειτουργία ψύξη και θέρμανση:



Εγκατάσταση της εξωτερικής μονάδας

Συσφίξτε όλες τις βίδες στην κλέμμα των καλωδίων και τοποθετήστε στην συνέχεια το πλαστικό κάλυμμα.

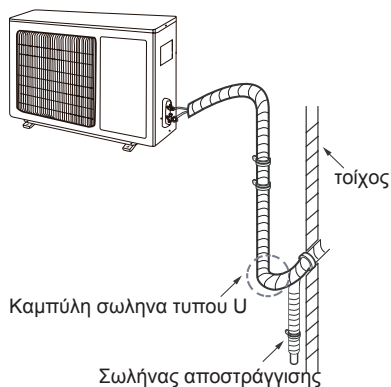
Σημείωση:

- Αφότου βιδώσετε τις βίδες, τραβήξτε με δύναμη τα καλώδια για να σιγουρευτείτε ότι συγκρατώνται σωστά στην κλέμμα.
- Σε καμία περίπτωση μην κόβετε ή μικραίνετε το καλώδιο της παροχής ρεύματος.

Βήμα Έκτο: Όδευση σωληνώσεων

1. Οι σωληνώσεις θα πρέπει να οδεύουν κατα μήκος του τοίχου, χωρίς μεγάλες καμπύλες και εάν είναι εφικτό να καλύπτονται. Η μικρότερη ακτίνα στην καμπύλη θα πρέπει να είναι 10cm.

2. Σε περίπτωση που η εξωτερική μονάδα τοποθετείται σε ψηλότερο σημείο από την εσωτερική μονάδα, θα πρέπει στις σωληνώσεις να κάνετε μια καμπύλη τυπου U πριν από την είσοδό τους στην οπή του τοίχου ούτως ώστε να αποτρέπεται η περίπτωση εισροής νερού από την βροχή



Αντληση κενού

Διαδικασία κενού σωληνώσεων

1. Αφαιρέστε τα καλύμματα των βαλβίδων της γραμμής υγρού και της γραμμής αερίου και το καπάκι από την βαλβίδα πλήρωσης.

2. Συνδέστε τον σωλήνα των μανομέτρων στην βαλβίδα πλήρωσης της γραμμής αερίου και την άλλη σωλήνα των μανομέτρων στην αντλία κενού.

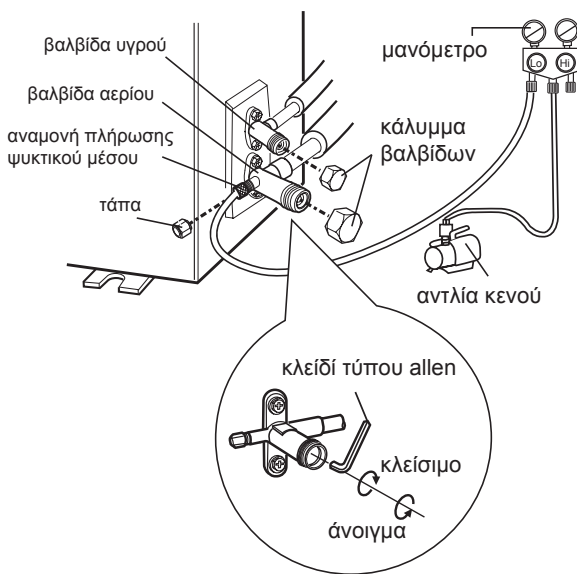
3. Ανοίξτε πλήρως την βάνα του μανόμετρου και με την αντλία κενού σε λειτουργία αναμείνατε έως ότου η πίεση δείξει -0.1MPa .

4. Κλείστε την αντλία κενού και ελέγξτε για 1-2 λεπτά εάν η πίεση παραμένει -0.1MPa . Εάν διαφοροποιείται τότε υπάρχει κάποια διαρροή στο κύκλωμα.

5. Αφαιρέστε τα μανόμετρα και ανοίξτε με ένα κλειδί τύπου "ΑΛΛΕΝ" τις βαλβίδες της γραμμής υγρού και αερίου.

6. Τοποθετήστε ξανά τα καπάκια στις 2 βαλβίδες.

7. Τοποθετήστε το πλαστικό κάλυμμα των βαλβίδων.



Έλεγχος διαρροών

1. Με ανιχνευτή διαρροών

Ελέγξτε προσεκτικά εάν υπάρχει διαρροή σε κάποιο σημείο των σωληνώσεων και των συνδέσεων τους.

2. Με σαπουνόνερο.

Σε περίπτωση που δεν διαθέτετε ανιχνευτή διαρροών, τοποθετήστε σαπουνόνερο στα σημεία όπου θέλετε να ελέγξετε για τυχόν διαρροή και αφήστε το για μερικά λεπτά. Εάν σχηματιστούν φυσαλίδες με άερα τότε υπάρχει διαρροή στο συγκεκριμένο σημείο.

Έλεγχος μετά την εγκατάσταση

- Ελέγξτε τα κάτωθι μετά την εγκατάσταση

Σημεία προς έλεγχο	Πιθανή βλάβη
Έχει εγκατασταθεί η μονάδα σταθερά;	Η μονάδα μπορεί να πέσει, να ταρακουνηθεί ή να είναι θορυβώδης
Έχει γίνει ο έλεγχος διαρροής ψυκτικού υγρού;	Μπορεί να προκληθεί ανεπαρκής απόδοση ψύξης ή θέρμανσης
Είναι επαρκής η θερμομόνωση των ψυκτικών σωληνώσεων και της αποχεύσεως;	Μπορεί να προκληθούν συμπυκνώματα και στάσιμο νερού
Απορρέει σωστά το νερό των συμπυκνωμάτων απο την εσωτερική μονάδα;	Μπορεί να προκληθούν συμπυκνώματα και στάσιμο νερού
Η τάση παροχής ρεύματος του σπιτιού είναι σύμφωνη με αυτή που αναφέρεται στο ταμπελάκι χαρακτηριστικών της συσκευής;	Σε διαφορετική περίπτωση μπορεί να προκληθεί δυσλειτουργία ή καταστροφή κάποιων μερών της συσκευής
Το ηλεκτρικό καλώδιο της παροχής ρεύματος και οι ψυκτικές σωληνώσεις έχουν εγκατασταθεί σωστά;	Σε διαφορετική περίπτωση μπορεί να προκληθεί δυσλειτουργία ή καταστροφή κάποιων μερών της συσκευής
Έχει γειωθεί με ασφάλεια η μονάδα;	Σε διαφορετική περίπτωση μπορεί να προκληθεί ηλεκτρική διαρροή
Το ηλεκτρικό καλώδιο της παροχής ρεύματος και οι ψυκτικές σωληνώσεις έχουν εγκατασταθεί σωστά;	Σε διαφορετική περίπτωση μπορεί να προκληθεί δυσλειτουργία ή καταστροφή κάποιων μερών της συσκευής
Υπάρχει κάποιο εμπόδιο στις εισόδους ή στις εξόδους του αέρα;	Μπορεί να προκληθεί ανεπαρκής απόδοση ψύξης ή θέρμανσης
Εχει αφαιρεθεί η σκόνη και τυχόν άλλα σωματίδια που δημιουργήθηκαν κατά την εγκατάσταση;	Σε διαφορετική περίπτωση μπορεί να προκληθεί δυσλειτουργία ή καταστροφή κάποιων μερών της συσκευής
Οι βάνες αερίου και υγρού της εξωτερικής μονάδας είναι εντελώς ανοικτές;	Μπορεί να προκληθεί ανεπαρκής απόδοση ψύξης ή θέρμανσης

Έλεγχος λειτουργίας

Προετοιμασία ελέγχου λειτουργίας

- Υποδείξτε τις σημαντικές σημειώσεις που αφορούν το κλιματιστικό στον κάτοχό του.

Μέθοδος ελέγχου λειτουργίας

- Ανοίξτε την παροχή ρεύματος, πατήστε το πλήκτρο ON/OFF στο τηλεχειριστήριο για να ενεργοποιήσετε την λειτουργία του κλιματιστικού
- Πατήστε το πλήκτρο MODE για να επιλέξετε την λειτουργία AUTO, COOL, DRY, FAN, HEAT έτσι ώστε να ελέγξετε εάν η λειτουργία του κλιματιστικού είναι κανονική ή όχι.
- Αν η θερμοκρασία χώρου είναι μικρότερη από 16°C το κλιματιστικό δεν μπορεί να ενεργοποιήσει την λειτουργία ψύξης.

Διαμόρφωση των ψυκτικών σωληνώσεων

1. Σταθερό μήκος ψυκτικών σωληνώσεων: 5 μέτρα, 7,5 μέτρα, 8 μέτρα
2. Έλάχιστο μήκος ψυκτικών σωληνώσεων 3 μέτρα.
3. Μέγιστο μήκος και υψομετρική διαφορά των ψυκτικών σωληνώσεων

Απόδοση Ψύξης	Μέγιστο μήκος σωληνώσεων	Μέγιστη υψομετρική διαφορά
5000Btu/h (1465W)	15	5
7000Btu/h (2051W)	15	5
9000Btu/h (2637W)	15	5
12000Btu/h (3516W)	20	10
18000Btu/h (5274W)	25	10

Απόδοση Ψύξης	Μέγιστο μήκος σωληνώσεων	Μέγιστη υψομετρική διαφορά
24000Btu/h (7032W)	25	10
28000Btu/h (8204W)	30	10
36000Btu/h (10548W)	30	20
42000Btu/h (12306W)	30	20
48000Btu/h (14064W)	30	20

4. Απαιτούμενο ψυκτικό υγρό και ψυκτικό λάδι έπειτα από την ολοκλήρωση της εγκατάστασης.

- Όσον αφορά το ψυκτικό λάδι επαρκεί για 10 μέτρα μήκος ψυκτικών σωληνώσεων. Θα πρέπει να προσθέτετε 5ml ψυκτικού λαδιού για κάθε 5 μέτρα επιπλέον σωληνώσεων.

- Η μέθοδος υπολογισμού συμπλήρωσης ψυκτικού υγρού είναι βασισμένη στο μήκος της σωλήνας υγρού όπως παρακάτω: Ποσότητα συμπλήρωσης ψυκτικού υγρού = έξτρα μέτρα σωληνώσεων x ποσότητα ψυκτικού υγρού ανα μέτρο.

- Στον παρακάτω πίνακα δίνεται η απαιτούμενη ποσότητα συμπλήρωσης ψυκτικού υγρού σύμφωνα με τη γραμμή υγρού του κάθε μηχανήματος και είναι διαφορετική για διαφορετικές διατομές της γραμμής υγρού. Ανατρέξτε στο παρακάτω πίνακα

Διαμόρφωση των ψυκτικών σωληνώσεων

Πρόσθετη ποσότητα ψυκτικού υγρού R22, R407C, R410A και R134a

Διάμετρος σωλήνα σύνδεσης		Εξωτερική μονάδα	
Γραμμή υγρού(mm)	Γραμμή αερίου(mm)	Ψύξη (g/m)	Ψύξη και θέρμανση(g/m)
Φ6	Φ9.52 or Φ12	15	20
Φ6 or Φ9.52	Φ16 or Φ19	15	50
Φ12	Φ19 or Φ22.2	30	120
Φ16	Φ25.4 or Φ31.8	60	120
Φ19	—	250	250
Φ22.2	—	350	350

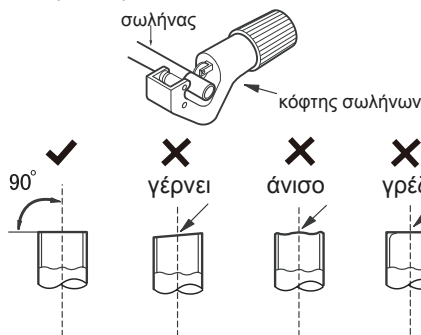
Μέθοδος εκχέιλωσης των σωληνώσεων

Note:

Η λανθασμένη εκχέιλωση των σωληνώσεων, είναι ο πιο πιθανός παράγοντας που μπορεί να εμφανιστεί διαρροή ψυκτικού μέσου. Παρακαλούμε ακολουθείστε τα παρακάτω βήματα ελάν θέλετε να επεκτείνετε τις σωληνώσεις:

A: Κόψτε το σωλήνα

- Μετρήστε την απόσταση εσωτερικής και εξωτερικής μονάδας και στη συνέχεια επιλέξτε το μήκος σωλήνα που χρειάζεστε.
- Κόψτε το απαιτούμενο μήκος σωλήνα με τον κόφτη σωλήνων



B: Αφαιρέστε τα γρέζια

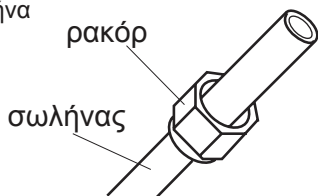
- Αφαιρέστε τα γρέζια από την επιφάνεια της κοπής και δώστε ιδιαίτερη προσοχή στον να μην μπουν στο εσωτερικό του σωλήνα



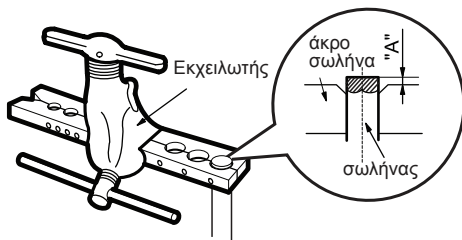
Γ: Τοποθετήστε εξωτερικά την κατάλληλη μόνωση

Δ: Συνδέστε το ρακόρ

- Αφαιρέστε το ρακόρ από τον σωλήνα της εσωτερικής μονάδας και την βάνα της εξωτερικής τοποθετήστε το αντιστοίχως στον σωλήνα



Ε: Εκχέιλωση των άκρων



Σημείωση:

- Η απόσταση "A" είναι διαφορετική και εξαρτάται από την διάμετρο του σωλήνα. Παρακαλούμε ανατρέξτε στον πίνακα παρακάτω:

Εξωτ. διάμετρος (mm)	A(mm)	
	Μέγιστη	Ελάχιστη
Φ6 - 6.35(1/4")	1.3	0.7
Φ9.52(3/8")	1.6	1.0
Φ12-12.7(1/2")	1.8	1.0
Φ15.8-16(5/8")	2.4	2.2

F: Έλεγχος

- Έλεγξτε την ποιότητα της εκχέιλωσης. Εάν παρατηρήσετε οποιαδήποτε ανωμαλία στην επιφάνεια ή ασυμμετρία, επαναλάβετε την εκχέιλωση ακολουθώντας τα ίδια βήματα

Επίπεδη επιφάνεια



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Atașament

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Acest aparat nu este destinat utilizării de către persoane (inclusiv copii) cu capacități fizice, senzoriale sau mentale reduse, sau lipsite de experiență și cunoștințe, cu excepția cazului în care acestea au fost supravegheate și instruite cu privire la utilizarea aparatului de către o persoană responsabilă pentru siguranța lor. Copiii trebuie supravegheați pentru a se asigura că nu se joacă cu acest aparat.



Acest marcatj indică faptul că acest produs nu trebuie aruncat împreună cu resturile menajere pe tot teritoriul UE. Pentru a preveni daune posibile mediului înconjurător sau sănătății omului rezultate din eliminarea necontrolată a deșeurilor, reciclați-l cu simț de răspundere pentru a promova reutilizarea sustenabilă a resurselor materiale. Pentru a returna aparatul folosit, vă rugăm folosiți sistemele de reutilizare și colectare sau contactați comerciantul de unde ați achiziționat produsul. Aceștia pot lua acest produs spre reciclare pentru siguranța mediului înconjurător.



Utilizarea și întreținerea

- Acest aparat poate fi folosit de copiii de peste 8 ani și de către persoane cu capacități fizice, senzoriale sau mentale reduse, sau lipsite de experiență și cunoștințe dacă li se acordă supraveghere sau instruire cu privire la utilizarea în siguranță și dacă înțeleg riscurile implicate.
- Copiii nu trebuie lăsați să se joace cu acest aparat.
- Curățarea și întreținerea din partea utilizatorului nu trebuie efectuate de către copii fără supraveghere.
- Nu conectați aparatul de aer condiționat la un prelungitor cu utilizări multiple deoarece poate constitui pericol de incendiu.
- Deconectați alimentarea cu electricitate în timpul curățării aparatului de aer condiționat, există risc de electrocutare.
- În cazul în care cablul de alimentare este avariât, trebuie înlocuit de către producător, agentul de vânzări sau o altă persoană cu calificări asemănătoare pentru a evita pericolul.
- Nu spălați aparatul de aer condiționat cu apă pentru a evita electrocutarea.
- Nu pulverizați apă pe unitatea interioară, poate cauza electrocutare sau defecțiuni.
- După înlăturarea filtrului, nu atingeți fantele pentru a nu vă răni.
- Nu folosiți foc sau uscător de păr pentru a usca filtrele, pentru a evita deformarea sau pericolul de incendiu.
- Întreținerea trebuie efectuată de personal calificat. În caz contrar, poate cauza vătămări corporale sau pagube materiale.



ATENȚIONARE

- Nu reparați singuri aparatul de aer condiționat. Poate cauza electrocutare sau pagube. Vă rugăm contactați vânzătorul când trebuie să reparați aparatul de aer condiționat.
- Nu introduceți degetele sau alte obiecte în unitățile de admisie sau evacuare a aerului. Poate cauza vătămări corporale sau pagube materiale.
- Nu blocați unitățile de admisie și evacuare aer. Acest lucru poate duce la defecțiuni. Nu vărsați apă pe telecomanda în caz contrar, telecomanda se poate defecta.
- Când apar fenomene de îngheț, vă rugăm opriți aparatul de aer condiționat și deconectați-l de la alimentarea electrică, iar apoi contactați vânzătorul sau personalul calificat pentru service.
- Cablul de alimentare se supraîncălzește sau este avariât.
- Există sunete anormale în timpul utilizării.
- Întrerupătorul de circuit se declanșează în mod frecvent.
- Aparatul de aer condiționat emană un miros de ars.
- Unitatea interioară are scurgeri.
- Dacă aparatul de aer condiționat funcționează în condiții anormale, poate cauza defecțiuni, electrocutare sau pericol de incendiu.
- La pornirea sau oprirea aparatului cu ajutorul butonului de utilizare în caz de urgență, vă rugăm folosiți un obiect izolan care să nu fie metalic.
- Nu călcați pe panoul de sus al unității exterioare și nu puneți obiecte grele pe acesta. Poate cauza pagube materiale sau vătămare corporală.



Atașament

- Instalarea trebuie realizată de profesioniști calificați. În caz contrar, poate cauza vătămare corporală sau pagube materiale.
- Trebuie urmate reglementările de securitate din domeniul electric la instalarea unității.
- Conform reglementărilor de siguranță locale, folosiți circuit de alimentare și întrerupător de circuit omologate.
- Instalați întrerupătorul de circuit. Dacă nu, pot exista defecțiuni.
- Un întrerupător multipolar cu o separare de contact de cel puțin 3 mm în toți polii trebuie să fie conectat în cablajele fixe.
- Incluzând un întrerupător de circuit cu capacitate adecvată, vă rugăm observați următorul tabel. Un comutator aerian trebuie să includă cuplaj magnetic și funcție de cuplaj la încălzire, putând astfel proteja de scurtcircuit și supraîncălzire.
- Aparatul de aer condiționat trebuie să aibă împământare adecvată. O împământare neadecvată poate cauza electrocutare.
- Nu folosiți cablu de alimentare neomologat.
- Asigurați-vă că alimentarea electrică se potrivește cu cerințele aparatului de aer condiționat. O alimentare electrică instabilă sau o cablare incorectă sau avariere. Vă rugăm instalați cabluri de alimentare adecvate înainte de a folosi aparatul de aer condiționat.
- Conectați adecvat firul de alimentare, pe cel neutru și pe cel de împământare.



ATENȚIONARE

- Asigurați-vă că este întreruptă alimentarea electrică înainte de a efectua orice lucrare legată de electricitate sau siguranță.
- Nu conectați la electricitate înainte de terminarea instalării.
- Dacă cablul de alimentare este avariât, acesta trebuie înlocuit de către producător, agent de vânzări sau altă persoană cu calificare asemănătoare pentru a evita un pericol.
- Temperatura circuitului frigorific poate fi înaltă, vă rugăm țineți cablul de interconectare departe de tubul de cupru.
- Aparatul trebuie instalat în conformitate cu reglementările naționale de cablare.
- Instalarea trebuie efectuată în conformitate cu reglementările naționale doar de către personal autorizat.
- Aparatul de aer condiționat este un aparat electric de primă clasă. Trebuie să aibă o împământare adecvată prin instrumente de împământare specializate realizate de un profesionist. Asigurați-vă că este mereu împământat corect, altfel poate cauza cutare.
- Cablul galben-verde din aparatul de aer condiționat este firul de împământare, acesta nu poate fi folosit în alte scopuri.
- Rezistența la împământare trebuie să fie în conformitate cu reglementările de siguranță naționale din domeniul electric.
- Aparatul trebuie astfel poziționat încât ștecherul să fie accesibil.

Precauții



ATENȚIONARE

- Toate cablurile unității interioare și exterioare trebuie conectate de către un profesionist.
- Dacă lungimea cablului de alimentare este mică, vă rugăm contactați furnizorul pentru unul nou. Evitați extinderea firului pe cont propriu.
- Pentru aparatul de aer condiționat cu ștecher, ștecherul trebuie să fie accesibil după terminarea instalării.
- Pentru aparatul de aer condiționat fără ștecher, un întrerupător de circuit trebuie instalat pe linie.
- Dacă trebuie să mutați aparatul de aer condiționat în alt loc, doar o persoană calificată poate efectua această lucrare. În caz contrar, poate cauza vătămare corporală sau daune materiale.
- Alegeți o locație care nu este la îndemâna copiilor și departe de animale sau plante. Dacă acest lucru nu este posibil, vă rugăm puneți împrejmuire în scopuri de siguranță.
- Unitatea interioară trebuie instalată aproape de perete.

Interval de temperatură pentru funcționare

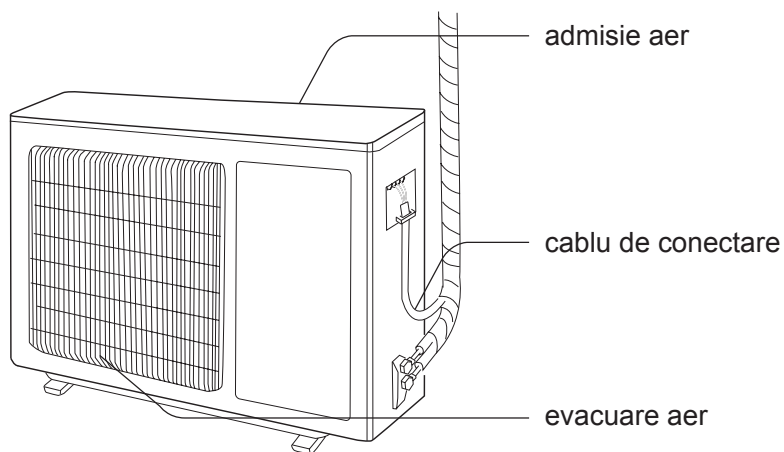
	Partea interioară DB /WB(°C)	Partea exterioară DB/WB(°C)
Răcire maximă	32/23	43/26
Încălzire maximă	27/-	24/18

ATENȚIE:

- Intervalul de temperatură în funcționare (temperatură externă) doar pentru unitatea de răcire este de -15°C ~ 43°C ; pentru unitatea pompei de încălzire -15°C ~ 24°C pentru modelul fara curea încălzire electrică pentru șasiu; pentru modelul ce are curea încălzire electrică pentru șasiu este -20°C ~ 24°C

Denumirea componentelor

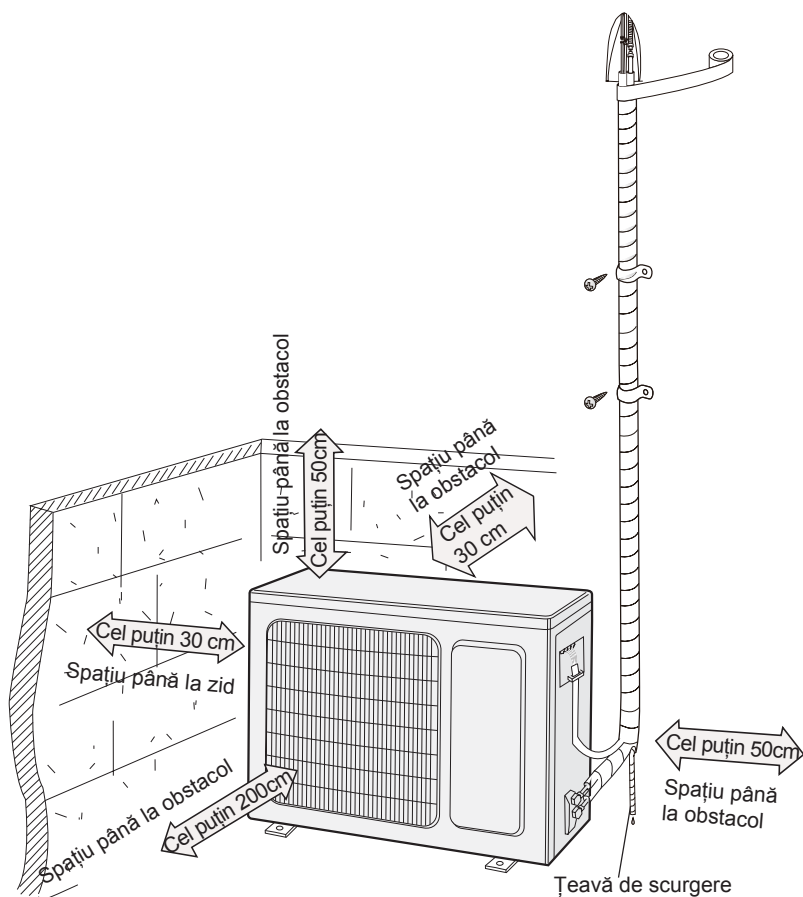
Unitatea exterioară



ATENȚIE:

Produsele reale pot fi diferite de imaginile de mai sus, vă rugăm consultați produsele reale.

Diagrama dimensiunilor de instalare



Unelte necesare instalării

1 Boloboc	2 Șurubelniță	3 Bormașină cu percuție
4 Cap portburghiu	5 Expansor țevi	6 Cheie dinamometrică
7 Cheie simplă	8 Clește de tăiat țevi	9 Detector de scurgeri
10 Pompa de vid	11 Manometru	12 Aparat de măsurat universal
13 Imbus hexagonal		14 Ruletă de măsurat

Notă:

- Vă rugăm contactați reprezentantul local pentru instalare.
- Nu folosiți cablu de alimentare neomologat.

Alegerea locului pentru instalare

Cerințe de bază

Instalarea aparatului în următoarele locuri poate cauza defecțiuni. Dacă nu se pot evita, vă rugăm consultați reprezentantul local:

1. Locuri cu surse puternice de căldură, vapori, gaze inflamabile sau explozive, sau obiecte volatile împrăștiate în aer.
2. Locuri cu dispozitive cu frecvențe înalte (ca dispozitive de sudură, echipament medical).
3. Locuri de lângă coastă.
4. Locuri cu uleiuri sau fum în aer.
5. Locuri cu gaze sulfuroase.
6. Alte locuri cu împrejurări speciale.
7. Nu folosiți aparatul în imediata apropiere a unei spălătorii, băi, zonă de duș sau unei piscine.

Unitatea interioară

1. Nu trebuie să existe obstacole lângă admisia sau evacuarea aerului.
2. Alegeți o locație unde apa din condensare poate curge ușor și nu afectează alți oameni.
3. Alegeți o locație unde este convenabilă legarea unității exterioare și în apropierea unei prize.
4. Alegeți o locație la care nu pot ajunge copiii.
5. Locația trebuie să suporte greutatea unității interioare și nu va spori zgomotul sau vibrarea.
6. Aparatul trebuie instalat la 2.5 m deasupra podelei.
7. Nu instalați unitatea interioară chiar deasupra aparatelor electrice.
8. Vă rugăm încercați pe cât posibil să fie departe de lămpi fluorescente

Cerințe pentru legăturile electrice

Precauții pentru siguranță

1. Trebuie să urmați reglementările electrice de siguranță la instalarea aparatului.
2. Conform reglementărilor locale de siguranță, folosiți circuite de alimentare electrică și întrerupător de circuit omologate.
3. Asigurați-vă că alimentarea cu electricitate se potrivește cu cerințele aparatului de aer condiționat.
4. Conectați adecvat firul de alimentare, pe cel neutru și pe cel de împământare ale ștecherului.
5. Asigurați-vă că este întreruptă alimentarea electrică înainte de a efectua orice lucrare legată de electricitate sau siguranță.
6. Nu conectați la electricitate înainte de terminarea instalării.
7. Dacă cablul de alimentare este avariât, acesta trebuie înlocuit de către producător, agent de vânzare sau altă persoană cu calificare asemănătoare pentru a evita un pericol.
8. Temperatura circuitului frigorific poate fi înaltă, vă rugăm țineți cablul de interconectare departe de tubul de cupru.
9. Aparatul trebuie instalat în conformitate cu reglementările naționale de cablare.
10. Instalarea trebuie efectuată în conformitate cu reglementările naționale doar de către personal autorizat.

Cerințe pentru împământare

1. Aparatul de aer condiționat este un aparat electric de primă clasă. Trebuie să aibă o împământare adecvată prin instrumente de împământare specializate realizate de un profesionist. Asigurați-vă că este mereu împământată corect, altfel poate cauza electrocutare.
2. Cablul galben-verde din aparatul de aer condiționat este firul de împământare, acesta nu poate fi folosit în alte scopuri.
3. Rezistența la împământare trebuie să fie în conformitate cu reglementările de siguranță naționale din domeniul electric.
4. Aparatul trebuie astfel poziționat încât ștecherul să fie accesibil.
5. Un întrerupător multipolar cu o separare de contact de cel puțin 3 mm în toți polii trebuie să fie conectat în cablajele fixe.
6. Incluzând un întrerupător de circuit cu capacitate adecvată, vă rugăm observați următorul tabel. Un comutator aerian trebuie să includă cuplaj magnetic și funcție de cuplaj la încălzire, poate astfel proteja de scurtcircuit și supraîncălzire. (Atenție: vă rugăm nu folosiți doar siguranța pentru a proteja circuitul).

Aparatul de aer condiționat	Capacitatea întrerupătorului de circuit
09K	10A
12K	10A
18K	10A

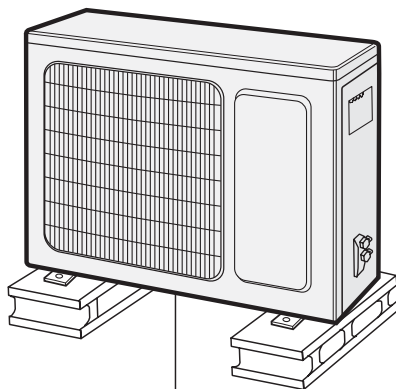
Instalarea unității exterioare

Pasul unu: fixarea cadrului unității exterioare (alegeți-l în funcție de situația reală de instalare)

1. Alegeți locația de instalare conform structurii casei
2. Fixați cadrul unității exterioare pe locația stabilită cu șuruburi pentru lărgirea

Notă:

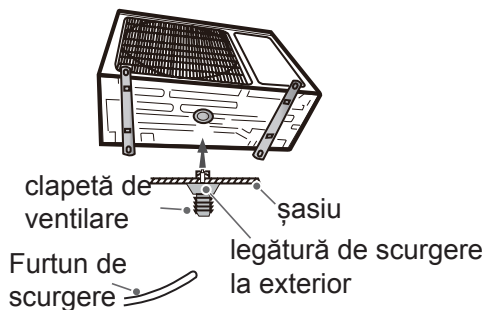
- Luați măsuri de siguranță suficiente în timpul instalării unității exterioare.
- Asigurați-vă că suportul cadru poate susține cel puțin de patru ori greutatea unității exterioare.
- Unitatea exterioară trebuie instalată la cel puțin 3 cm deasupra podelei pentru a putea instala legătura de scurgere.
- Pentru unitățile cu capacitate de răcire de 2300W~5000W, sunt necesare 6 șuruburi pentru lărgirea filierei; pentru aparate cu capacitatea de răcire de 6000W~8000 W, sunt necesare 8 șuruburi, iar pentru unități de răcire cu capacitatea de 10000W~16000W, sunt necesare 10 șuruburi.



cel puțin 3 cm de la podea

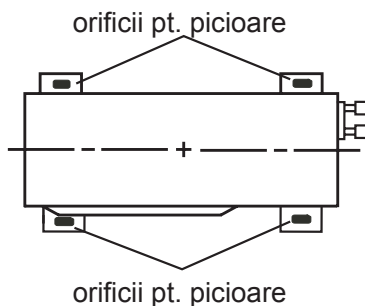
Pasul doi: instalarea legăturii de scurgere (doar pentru aparatele cu răcire și încălzire)

1. Conectați legătura de scurgere exterioară în orificiu pe șasiu, cum se vede în poza de mai jos.
2. Legați furtunul de scurgere la clapeta de ventilare



Pasul trei: fixarea unității exterioare

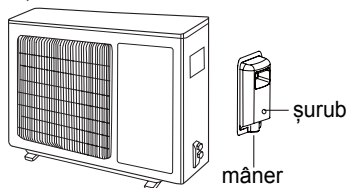
1. Așezați unitatea exterioară pe cadrul suport.
2. Fixați orificiile pentru picioare ale unității exterioare cu șuruburi.



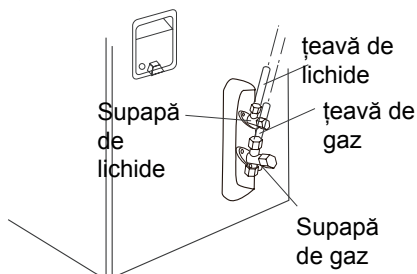
Instalarea unității exterioare

Pasul patru: legarea țevilor interioare și exterioare

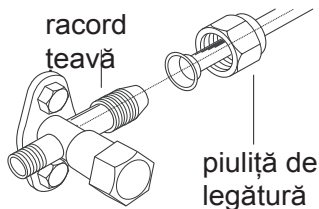
1. Scoateți șurubul de pe mânerul drept al unității exterioare și apoi scoateți mânerul



2. Scoateți bușonul filetat al clapetei și îndreptați racordul țevii către capătul lărgit al țevii.



3. Strângeți puțin piulița de legătură cu mâna

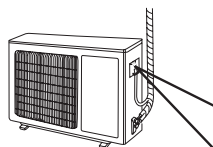


4. Strângeți piulița de legătură cu cheia dinamometrică făcând referire la tabelul de mai jos

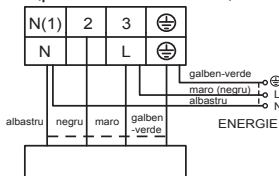
Diametru piuliță hexagonală	Cuplul de torsiune (Nm)
Φ 6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

Pasul cinci: legarea cablului electric exterior

1. Dați la o parte clema cablului; conectați cablul electric de legătură și cablul de control al semnalului (doar pentru tipul cu pompă de căldură) la terminalul de cabluri conform culorii; fixați-le cu șuruburi



09,12,18K Tip numai răcire și Tip pompă caldură: (pentru unele modele)



Instalarea unității exterioare

2. Fixați cablul electric de legătură și cablul de control al semnalului cu clemă pentru cabluri (doar pentru unitățile de răcire și încălzire).

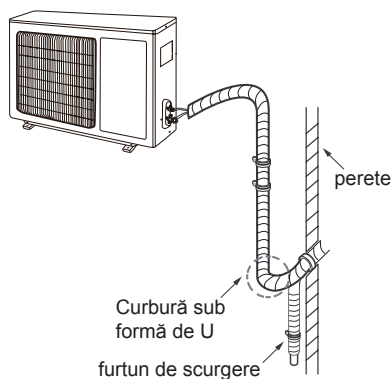
Notă:

- După strângerea șurubului, trageți ușor de cablul de alimentare pentru a verifica dacă este bine legat.
- Nu tăiați niciodata cablul electric de legătură pentru a prelungi sau scurta distanța

Pasul șase: așezarea țevelor

1. Țevile trebuie să fie așezare de-a lungul zidului, îndoite cu măsură și pe cât posibil ascunse. Semidiametrul de îndoire minim este de 10cm.

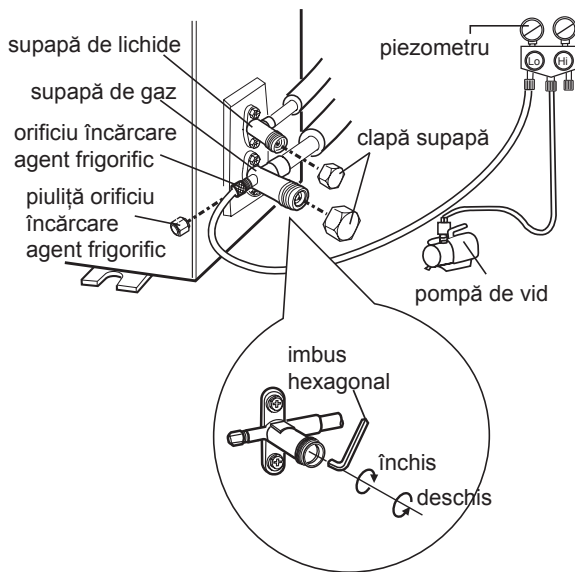
2. Dacă unitatea exterioară este mai înaltă decât orificiul pentru țeavă din zid, trebuie să creați o curbă sub formă de U pe țeavă înainte ca aceasta să intre în gaură, pentru a preveni ploaia să pătrundă în cameră.



Pomparea în vid

Folosirea pompei în vid

1. Îndepărtați clapele supapelor de pe supapa de lichide și cea de gaz, și piulița orificiului de umplere a agentului frigorific.
2. Legați furtunul de umplere al piezometrului la orificiul de umplere al agentului frigorific al supapei de gaz și apoi legați celălalt furtun de umplere la pompa în vid.
3. Deschideți piezometrul la maxim și țineți în funcțiune pentru 10-15 minute pentru a verifica dacă presiunea piezometrului rămâne la -0.1MPa .
4. Închideți pompa în vid și mențineți această stare pentru 1-2 minute pentru a verifica dacă presiunea piezometrului rămâne la -0.1MPa . Dacă presiunea scade, pot exista scurgeri.
5. Înlăturați piezometrul, deschideți ventilul de aer al supapei de lichid și al celei de gaz în mod complet cu un imbus hexagonal.
6. Strângeți bușonii filetați ai supapelor și al orificiului de umplere al agentului frigorific.
7. Montați la loc mânerul



Detectarea scurgerilor

1. Cu ajutorul detectorului de scurgeri: Verificați dacă sunt scurgeri cu detectorul de scurgeri.
2. Cu apă și săpun: Dacă nu este disponibil un detector de scurgeri, vă rugăm folosiți apă cu săpun pentru a detecta scurgeri. Aplicați apă cu săpun în locul suspectat și țineți apa cu săpun acolo pentru mai mult de 3 minute. Dacă apar bule de aer din această locație, atunci există scurgeri.

Verificarea după instalare

- Verificați conform cerințelor de mai jos după terminarea instalării

De verificat	Defecțiuni posibile
Unitatea a fost instalată bine?	Aparatul poate cădea, vibra sau face zgomot.
Ați făcut testul de scurgeri al agentului frigorific?	Poate cauza o răcire (încălzire) insuficientă
Izolarea termică a țevelor este suficientă?	Poate cauza condens și picurarea apei.
Apa se scurge bine?	Poate cauza condens și picurarea apei.
Voltajul alimentării electrice este același cu voltajul de pe plăcuța de identificare?	Poate cauza defectarea sau funcționarea incorectă a componentelor.
Legarea electrică și a țevelor este executată corect?	Poate cauza defectarea sau funcționarea incorectă a componentelor.
Aparatul este legat bine la împământare?	Poate cauza scăpări electrice.
Cablul de alimentare urmează specificațiile?	Poate cauza defectarea sau funcționarea incorectă a componentelor
Există obstacole la admisia și evacuarea aerului?	Poate cauza o răcire (încălzire) insuficientă.
Praful și mărunțișurile din timpul instalării sunt îndepărtate?	Poate cauza defectarea sau funcționarea incorectă a componentelor.
Supapa de gaz și supapa de lichide ale țevei de legătură sunt deschise complet?	Poate cauza o răcire (încălzire) insuficientă.

Testarea funcționării

1. Pregătirea testării funcționării

- Clientul este de acord cu aparatul de aer condiționat.
- Specificați notele importante ale aparatului de aer condiționat clientului.

2. Metoda testării funcționării

- Băgați în priză, apăsați butonul ON/OFF de pe telecomandă pentru a porni funcționarea.
- Apăsați butonul MODE pentru a selecta AUTO, COOL, DRY, FAN și HEAT, pentru a verifica dacă funcționează normal sau nu.
- Dacă temperatura din cameră este mai mică de 16°C, aparatul de aer condiționat nu poate porni răcirea.

Configurarea țevii de legătură

1. Lungimea standard a țevii de legătură.
 - 5m, 7,5 m, 8m,
2. Lungimea minimă a țevii de legătură este de 3m.
3. Lungimea maximă a țevii de legătură și cea mai mare diferență

Capacitate a de răcire	Lungimea maximă a țevii de legătură	Diferența maximă în înălțime
5000Btu/h (1465W)	15	5
7000Btu/h (2051W)	15	5
9000Btu/h (2637W)	15	5
12000Btu/h (3516W)	20	10
18000Btu/h (5274W)	25	10

Capacitate a de răcire	Lungimea maximă a țevii de legătură	Diferența maximă în înălțime
24000Btu/h (7032W)	25	10
28000Btu/h (8204W)	30	10
36000Btu/h (10548W)	30	20
42000Btu/h (12306W)	30	20
48000Btu/h (14064W)	30	20

4. Uleiul suplimentar al agentului frigorific și umplerea cu agent frigorific după extinderea țevii de legătură

- După ce țeava de legătură este lungită cu 10m la baza lungimii standard, trebuie adăugați 5ml de ulei al agentului frigorific pentru fiecare 5ml în plus de țeavă de legătură.
- Modalitatea de calcul al cantității de agent frigorific suplimentar de umplere (bazat pe țeava de lichide): Cantitatea de umplere a agentului frigorific suplimentar = lungimea extinsă a țevii de lichide x cantitatea suplimentară de agent frigorific de umplere
- Pe baza lungimii țevii standard, adăugați agent frigorific conform cerințelor din tabel. Cantitatea suplimentară de agent frigorific de umplere este diferită conform diametrului țevii de lichide. Consultați următorul tabel.

Configurarea țevii de legătură

Cantitatea suplimentară de agent frigorific de umplere pentru R22, R407C, R410A și R134a

Diametru țeavă de legătură		Accelerație unitate exterioară	
Țeavă de lichide (mm)	Țeavă de gaz (mm)	Doar răcire (g/m)	Răcire și încălzire (g/m)
Φ6	Φ9.52 or Φ12	15	20
Φ6 or Φ9.52	Φ16 or Φ19	15	50
Φ12	Φ19 or Φ22.2	30	120
Φ16	Φ25.4 or Φ31.8	60	120
Φ19	—	250	250
Φ22.2	—	350	350

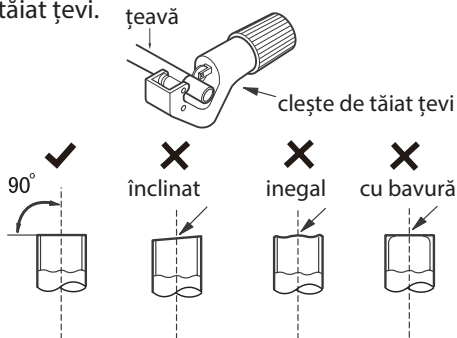
Modalitatea de extindere a țevii

Notă:

Extinderea incorectă a țevii este cauza principală a scurgerii agentului frigorific. Vă rugăm extindeți țeava conform următorilor pași:

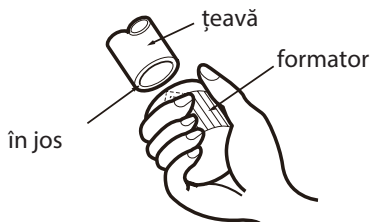
A. Tăiați țeava

- Confirmați lungimea țevii conform distanței dintre unitatea interioară și cea exterioară.
- Tăiați țeava necesară cu cleștele de tăiat țevi.



B. Îndepărtați bavura

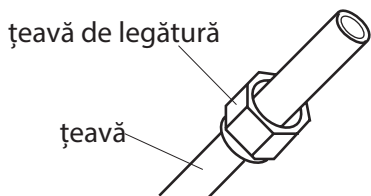
- Îndepărtați bavura cu formatorul și împiedicați bavura să intre în țevi.



C. Atașați țevi izolatoare adecvate.

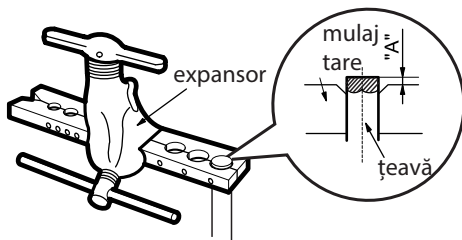
D. Atașați piulița de legătură.

- Dați jos piulița de legătură de pe țeava de legătură interioară și supapa exterioară; instalați piulița de legătură pe țeavă.



E. Extindeți orificiul cu expansorul

- Extindeți orificiul cu expansorul



Notă:

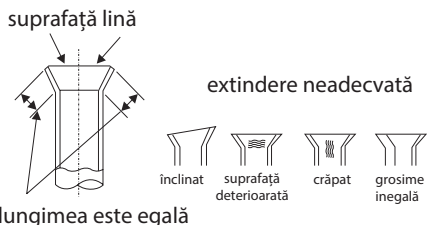
- Punctul A este diferit în funcție de diametru, vă rugăm consultați tabelul de mai jos:

Diametru exterior (mm)	A(mm)	
	Max	Min
Φ6 - 6.35(1/4")	1.3	0.7
Φ9.52(3/8")	1.6	1.0
Φ12-12.7(1/2")	1.8	1.0
Φ15.8-16(5/8")	2.4	2.2

F. Inspecția

- Verificați calitatea expansorului.

Dacă există defecte, extindeți din nou orificiul conform pașilor de mai sus.





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