

# Panasonic

## AIR CONDITIONER

**CAUTION**

# R32 REFRIGERANT

This Air Conditioner contains and operates with refrigerant R32.

**THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED BY QUALIFIED PERSONNEL.**

Refer to National, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.

1 Phillips screw driver	12 Megameter
2 Level gauge	13 Multimeter
3 Electric drill, hole core drill (φ70 mm)	14 Torque wrench
4 Hexagonal wrench (4 mm)	18 Nm (1.8 kgf·m)
5 Spanner	42 Nm (4.3 kgf·m)
6 Pipe cutter	55 Nm (5.6 kgf·m)
7 Reamer	65 Nm (6.6 kgf·m)
8 Knife	100 Nm (10.2 kgf·m)
9 Gas leak detector	15 Vacuum pump
10 Measuring tape	16 Gauge manifold
11 Thermometer	

### SAFETY PRECAUTIONS

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

	This indication shows the possibility of causing death or serious injury.
	This indication shows the possibility of causing injury or damage to properties only.

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

- Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference.

WARNING	
	Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. Any unfit method or using incompatible material may cause product damage, burst and serious injury.
	Do not install outdoor unit near handrail of veranda. When installing air-conditioner unit on veranda of a high rise building, child may climb up to outdoor unit and cross over the handrail causing an accident.
	Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord. Do not share the single outlet with other electrical appliances. Poor contact, poor insulation or over current will cause electrical shock or fire.
	The appliance shall be stored in a well ventilated room with indoor floor area larger than $A_{min}$ (m <sup>2</sup> ) [refer Table A] and without any continuously operating ignition source. Keep away from open flames, any operating gas appliances or any operating electric heater. Else, it may explode and cause injury or death.
	Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen.
	Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury.
	Do not sit or step on the unit, you may fall down accidentally.
	The appliance shall be installed, and/or operated in a room with floor area larger than $A_{min}$ (m <sup>2</sup> ) [refer Table A] and keep away from ignition sources, such as heat/sparks/open flame or hazardous areas such as gas appliances, gas cooking, reticulated gas supply systems or electric cooking appliances, etc.
	Keep plastic bag (packaging material) away from small children, it may cling to nose and mouth and prevent breathing.
	When installing or relocating air conditioner, do not let any substance other than the specified refrigerant, eg. air etc mix into refrigeration cycle (piping). Mixing of air etc. will cause abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
	Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flame, sparks, or other sources of ignition. Else, it may explode and cause injury or death.
	Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.
	Do not perform flare connection inside a building or dwelling or room, when joining the heat exchanger of indoor unit with interconnecting piping. Refrigerant connection inside a building or dwelling or room must be made by brazing or welding. Joint connection of indoor unit by flaring method can only be made at outdoor or at outside of a building or dwelling or room. Flare connection may cause gas leak and flammable atmosphere.
	<ul style="list-style-type: none"> <li>For R32 model, use piping, flare nut and tools which is specified for R32 refrigerant. Using of existing (R22) piping, flare nut and tools may cause abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury.</li> <li>Thickness for copper pipes used with R32 must be more than 0.8 mm. Never use copper pipes thinner than 0.8 mm.</li> <li>It is desirable that the amount of residual oil less than 40 mg/10 m.</li> </ul>
	Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire.
	For refrigeration system work, install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.
	Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.
	Install at a strong and firm location which is able to withstand weight of the set. If the strength is not enough or installation is not properly done, the set will drop and cause injury.
	For electrical work, follow the national regulation, legislation and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in the electrical work, it will cause electrical shock or fire.
	Do not use joint cable for indoor / outdoor connection cable. Use the specified indoor/outdoor connection cable, refer to instruction <b>5</b> <b>CONNECT THE CABLE TO THE INDOOR UNIT</b> and connect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection or fixing is not perfect, it will cause heat up or fire at the connection.
	Wire routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause fire or electrical shock.
	This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD), with sensitivity of 30mA at 0.1 sec or less. Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.
	During installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping and valves at opened position will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
	During pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration piping while compressor is operating and valves are opened will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
	Tighten the flare nut with torque wrench according to specified method. If the flare nut is over-tightened, after a long period, the flare may break and cause refrigerant gas leakage.
	After completion of installation, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant contacts with fire.
	Ventilate if there is refrigerant gas leakage during operation. It may cause toxic gas when the refrigerant contacts with fire.
	Be aware that refrigerants may not contain an odour.
	This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone. Otherwise, it may cause electrical shock in case of equipment breakdown or insulation breakdown.

### CAUTION

	Do not install the unit in a place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause fire.
	Prevent liquid or vapor from entering sumps or sewers since vapor is heavier than air and may form suffocating atmospheres.
	Do not release refrigerant during piping work for installation, re-installation and during repairing refrigeration parts. Take care of the liquid refrigerant, it may cause frostbite.
	Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc.
	Do not touch the sharp aluminium fin, sharp parts may cause injury.
	Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.
	Select an installation location which is easy for maintenance. Incorrect installation, service or repair of this air conditioner may increase the risk of rupture and this may result in loss damage or injury and/or property.
	Power supply connection to the room air conditioner. Use power supply cord 3 x 1.5 mm <sup>2</sup> (1.0 ~ 1.5HP), 3 x 2.5 mm <sup>2</sup> (2.0 ~ 2.25HP) type designation 60245 IEC 57 or heavier cord. Connect the power supply cord of the air conditioner to the mains using one of the following method. Power supply point should be in easily accessible place for power disconnection in case of emergency. In some countries, permanent connection of this air conditioner to the power supply is prohibited.
	1) Power supply connection to the receptacle using power plug. Use an approved 15/16A (1.0 ~ 1.5HP), 16A (2.0 ~ 2.25HP), power plug with earth pin for the connection to the socket.
	2) Power supply connection to a circuit breaker for the permanent connection. Use an approved 16A (1.0 ~ 2.25HP) circuit breaker for the permanent connection. It must be a double pole switch with a minimum 3.0 mm contact gap.
	Installation work. It may need two people to carry out the installation work.

### PRECAUTION FOR USING R32 REFRIGERANT

- The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. However, pay careful attention to the following points:

WARNING

Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special. Especially, when replacing a refrigerant R22 model with a new refrigerant R32 model, always replace the conventional piping and flare nuts with the R32 and R410A piping and flare nuts on the outdoor unit side.

For R32 and R410A, the same flare nut on the outdoor unit side and pipe can be used.

Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety. Therefore, check beforehand. [The charging port thread diameter for R32 and R410A is 12.7 mm (1/2 inch).]

Be more careful than R22 so that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)

### CAUTION

- Installation (Space)
  - Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.
  - Must ensure that pipe-work shall be protected from physical damage.
  - Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.
  - Must ensure mechanical connections be accessible for maintenance purposes.
  - In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
  - When disposal of the product, do follow to the precautions in #12 and comply with national regulations. Always contact to local municipal offices for proper handling.
- Servicing
  - 2-1. Service personnel
    - Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
    - Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
    - Servicing shall be performed only as recommended by the manufacturer.
  - 2-2. Work
    - Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the precautions in #2-2 to #2-8 must be followed before conducting work on the system.
    - Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.
    - All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.
    - Avoid working in confined spaces.
    - Wear appropriate protective equipment, including respiratory protection, as conditions warrant.
    - Ensure that the conditions within the area have been made safe by limit of use of any flammable material. Keep all sources of ignition and hot metal surfaces away.
  - 2-3. Checking for presence of refrigerant
    - The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
    - Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants. i.e. non sparking, adequately sealed or intrinsically safe.
    - In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.
    - In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.
  - 2-4. Presence of fire extinguisher
    - If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.
    - Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.
  - 2-5. No ignition sources
    - No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. He/She must not be smoking when carrying out such work.
    - All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
    - Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
    - "No Smoking" signs shall be displayed.
  - 2-6. Ventilated area
    - Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
    - A degree of ventilation shall continue during the period that the work is carried out.
    - The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
  - 2-7. Checks to the refrigeration equipment
    - Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
    - At all times the manufacturer's maintenance and service guidelines shall be followed.
    - If in doubt consult the manufacturer's technical department for assistance.
    - The following checks shall be applied to installations using flammable refrigerants.
      - The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
      - The ventilation machinery and outlets are operating adequately and are not obstructed.
      - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
      - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
      - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.
  - 2-8. Checks to electrical devices
    - Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
    - Initial safety checks shall include but not limit to:-
      - That capacitors are discharged; this shall be done in a safe manner to avoid possibility of sparking.
      - That there is no live electrical components and wiring are exposed while charging, recovering or purging the system.
      - That there is continuity of earth bonding.
    - At all times the manufacturer's maintenance and service guidelines shall be followed.
    - If in doubt consult the manufacturer's technical department for assistance.
    - If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
    - If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
    - The owner of the equipment must be informed or reported so all parties are advised thereafter.

3. Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

4. Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

5. Cabling

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

6. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

7. Leak detection methods

- Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

8. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant -> purge the circuit with inert gas -> evacuate -> purge again with inert gas -> open the circuit by cutting or brazing

- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be "flushed" with OFN to render the unit safe.

- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

9. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.
  - Ensure that contamination of different refrigerants does not occur when using charging equipment.
    - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
    - Cylinders shall be kept upright.
  - Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
  - Label the system when charging is complete (if not already).
  - Extreme care shall be taken not to over fill the refrigeration system.
- Prior to recharging the system it shall be pressure tested with OFN (refer to #7).
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.
- Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant.
  - To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

10. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.
  - a) Become familiar with the equipment and its operation.
  - b) Isolate system electrically.
  - c) Before attempting the procedure ensure that:
    - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
    - all personal protective equipment is available and being used correctly;
    - the recovery process is supervised at all times by a competent person;
    - recovery equipment and cylinders conform to the appropriate standards.
  - d) Pump down refrigerant system, if possible.
  - e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  - To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

11. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

12. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

### Explanation of symbols displayed on the indoor unit or outdoor unit.

	<b>WARNING</b>	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
	<b>CAUTION</b>	This symbol shows type of flammable refrigerant contained in the system.
	<b>CAUTION</b>	This symbol shows that the Operation Manual should be read carefully.
	<b>CAUTION</b>	This symbol shows that a service personnel should be handling this equipment with reference to the Installation Manual.
	<b>CAUTION</b>	This symbol shows that there is information included in the Operation Manual and/or Installation Manual.

Attached accessories								
No.	Accessories part	Qty.	No.	Accessories part	Qty.	No.	Accessories part	Qty.
1	Installation plate	1	4	Battery	2	7	Drain elbow	1
2	Installation plate fixing screw	5	5	Remote control holder	1	8	Air purifying filter	1
3	Remote Control	1	6	Remote control holder fixing screw	2		(only applicable for "UZ" model)	

Applicable piping kit	Piping size	
	Gas	Liquid
CZ-3F5, 7BP	9.52 mm (3/8")	6.35 mm (1/4")
CZ-4F5, 7, 10BP	12.7 mm (1/2")	6.35 mm (1/4")
CZ-52F5, 7, 10BP	15.88 mm (5/8")	6.35 mm (1/4")

### SELECT THE BEST LOCATION

#### INDOOR UNIT

- Do not install the unit in excessive oil fume area such as kitchen, workshop and etc.
- There should not be any heat source or steam near the unit.
- There should not be any obstacles blocking the air circulation.
- A place where air circulation in the room is good.
- A place where drainage can be easily done.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.
- Recommended installation height for indoor unit shall be at least 2.5 m.

#### OUTDOOR UNIT

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

Table A

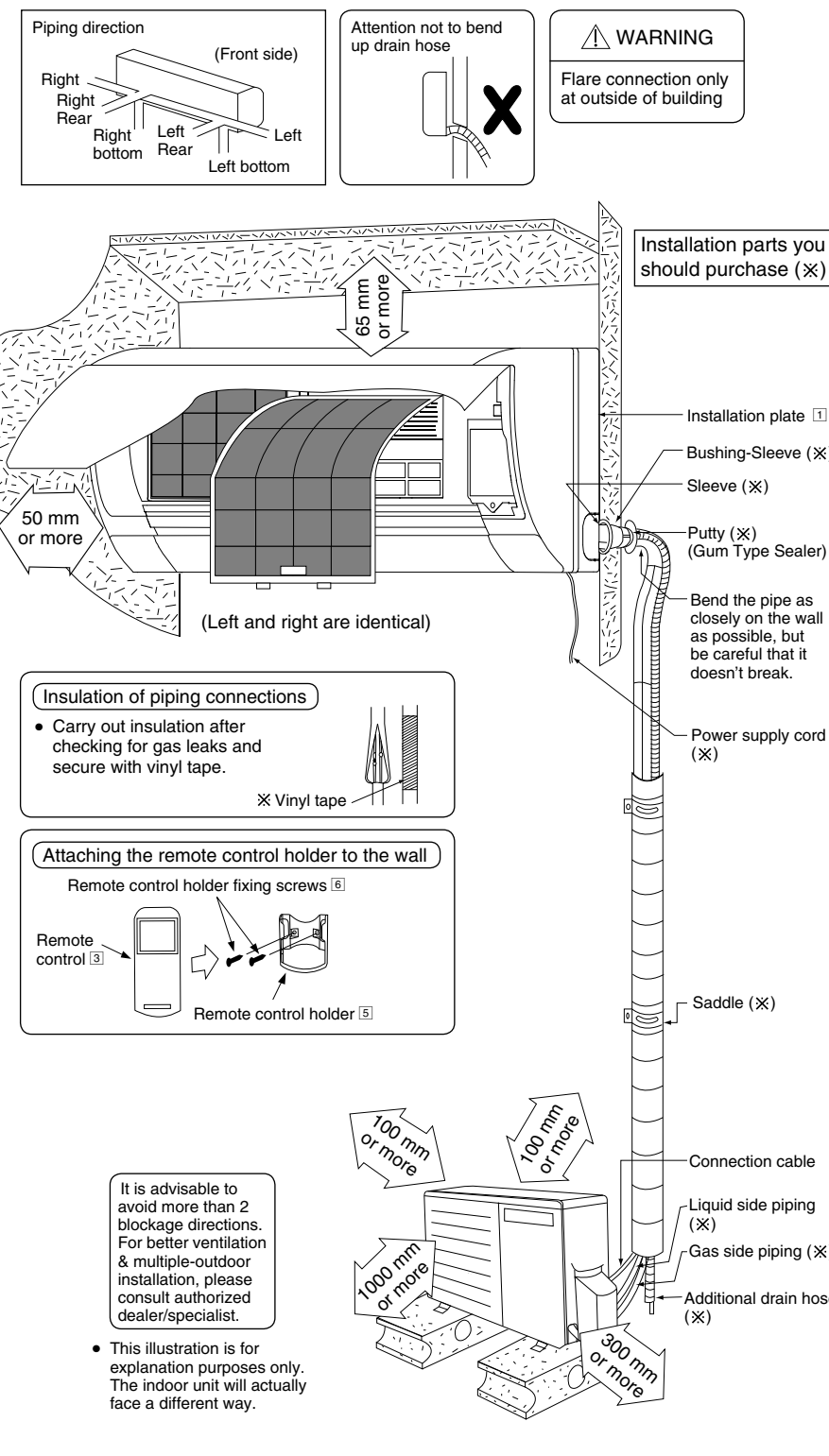
Model	Capacity W (HP)	Piping size		Std. Length (m)	Max. Elevation (m)	Min. Piping Length (m)	Max. Piping Length (m)	Additional Refrigerant (g/m)	Piping Length for add. gas (m)	Indoor $A_{min}$ (m <sup>2</sup> )
		Gas	Liquid							
PZ25**	1.0HP	9.52mm (3/8")	6.35mm (1/4")	5	15	3	15	10	7.5	0.41
PZ35**	1.5HP									
PZ50**	2.0HP	12.7mm (1/2")	6.35mm (1/4")	5	15	3	15	15	7.5	1.50
UZ60**	2.25HP (1/2")									
					15	3	30	15	7.5	2.11

Example: For PZ25\*\*  
If the unit is installed at 10 m distance, the quantity of additional refrigerant should be 25 g .... (10-7.5) m x 10 g/m = 25 g.

$$A_{min} = (M / (2.5 \times (LFL)^{0.66} \times h_o)) ^2$$

$A_{min}$  = Required minimum room area, in m<sup>2</sup>  
 $M$  = Refrigerant charge amount in appliance, in kg  
 $LFL$  = Lower flammable limit (0.306 kg/m<sup>3</sup>)  
 $h_o$  = Installation height of the appliance (1.8 m for wall mounted)

### Indoor/Outdoor Unit Installation Diagram

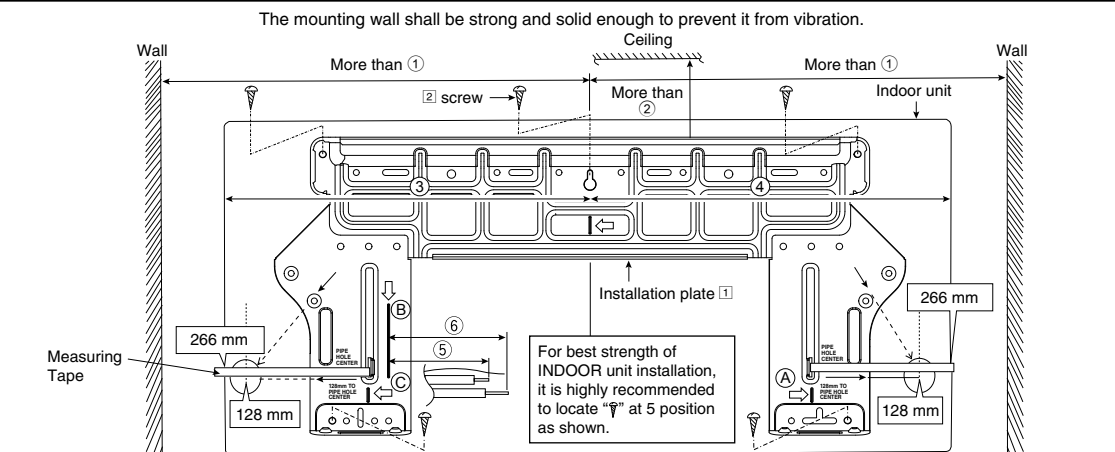


# INDOOR UNIT

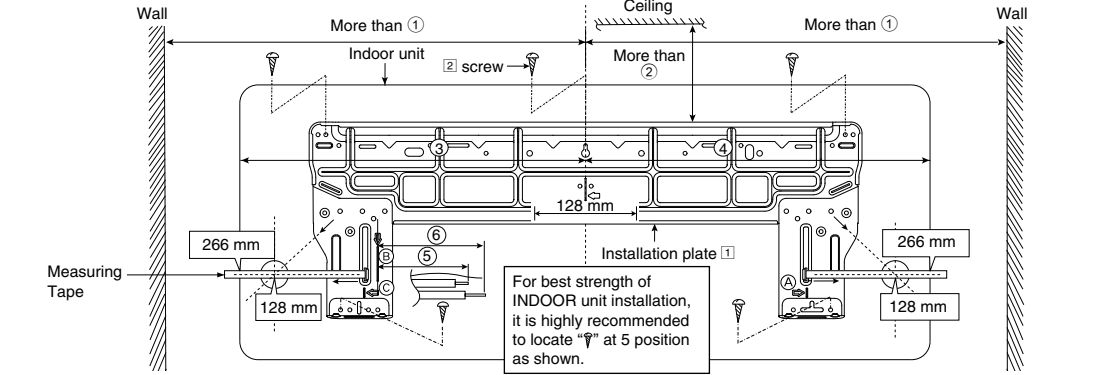
## 1 SELECT THE BEST LOCATION

(Refer to "Select the best location" section)

## 2 HOW TO FIX INSTALLATION PLATE



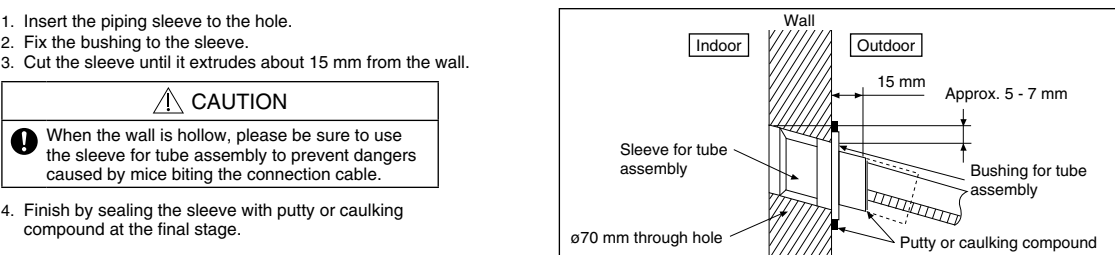
Model	Dimension					
	①	②	③	④	⑤	⑥
PZ25***, PZ35***	480 mm	80 mm	425 mm	425 mm	43 mm	95 mm
PZ50***	490 mm	90 mm	439 mm	432 mm	43 mm	95 mm



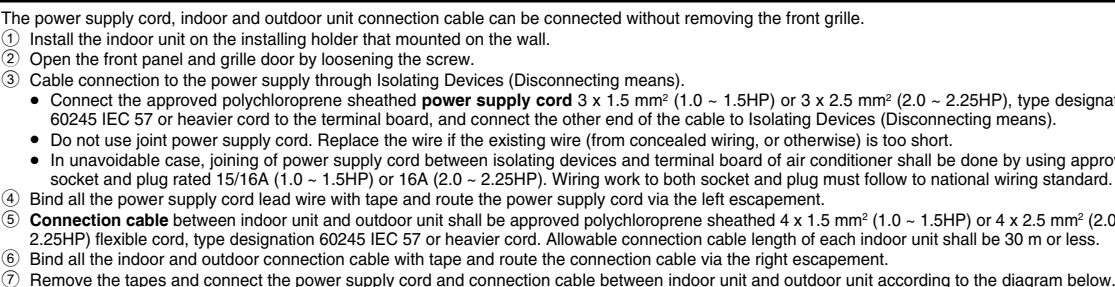
Model	Dimension					
	①	②	③	④	⑤	⑥
UZ60***	590 mm	85 mm	539 mm	532 mm	230 mm	280 mm

- The center of installation plate should be at more than ① at right and left of the wall. The distance from installation plate edge to ceiling should more than ②. From installation plate center to unit's left side is ③. From installation plate center to unit's right side is ④.
- ⑤: For left side piping, piping connection for liquid should be about ⑤ from this line.
  - ⑥: For left side piping, piping connection for gas should be about ⑥ from this line.
- Mount the installation plate on the wall with 5 screws or more (at least 5 screws). (If mounting the unit on the concrete wall, consider using anchor bolts.)
  - Always mount the installation plate horizontally by aligning the marking-off line with the thread and using a level gauge.
  - Drill the piping plate hole with ø70 mm hole-core drill.
    - Line according to the left and right side of the installation plate.
    - The meeting point of the extended line is the center of the hole.
    - Another method is by putting measuring tape at position as shown in the diagram above. The hole center is obtained by measuring the distance namely 128 mm for left and right hole respectively.
    - Drill the piping hole at either the right or the left and the hole should be slightly slanting to the outdoor side.

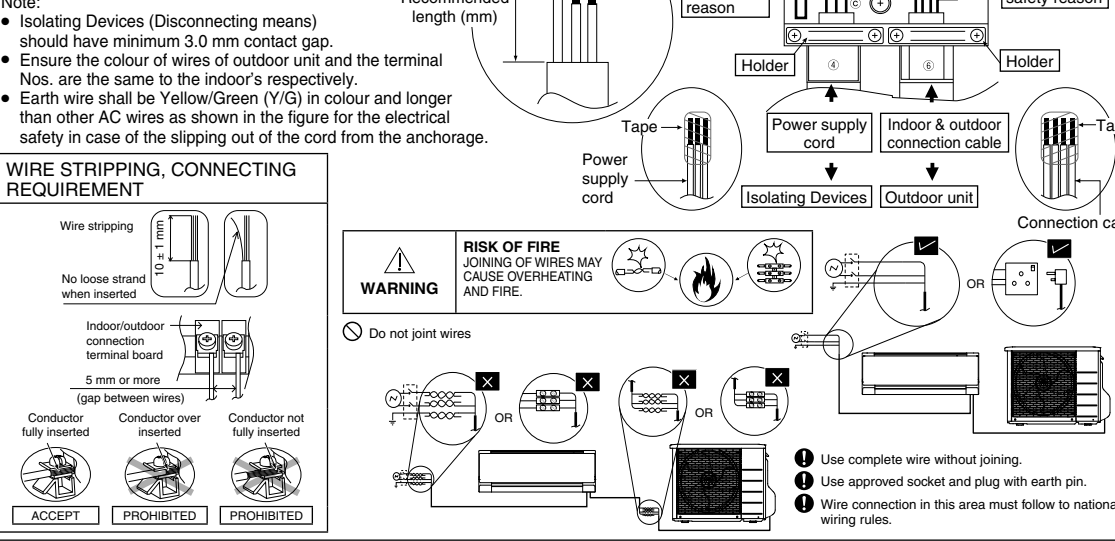
## 3 TO DRILL A HOLE IN THE WALL AND INSTALL A SLEEVE OF PIPING



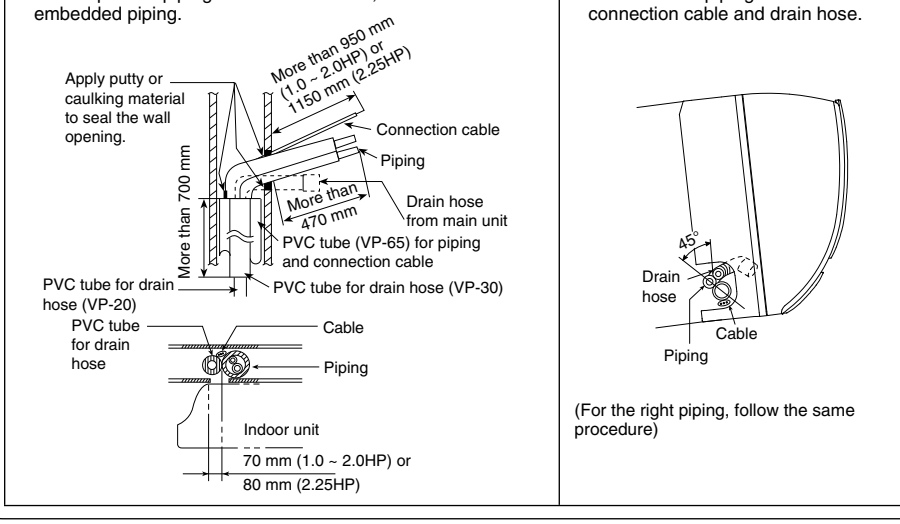
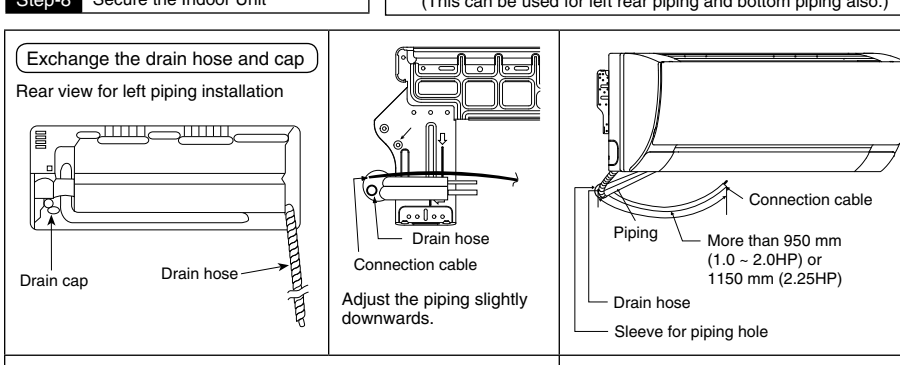
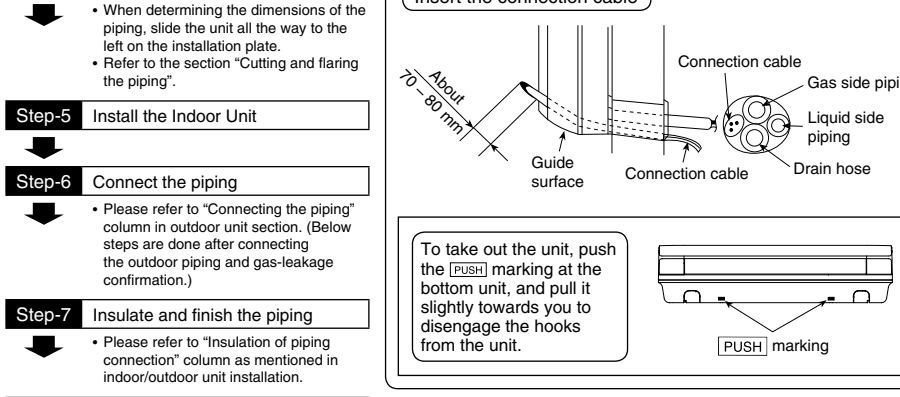
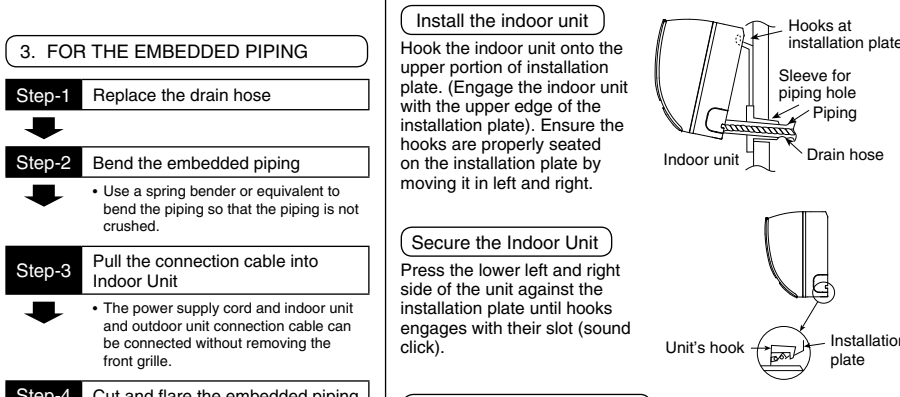
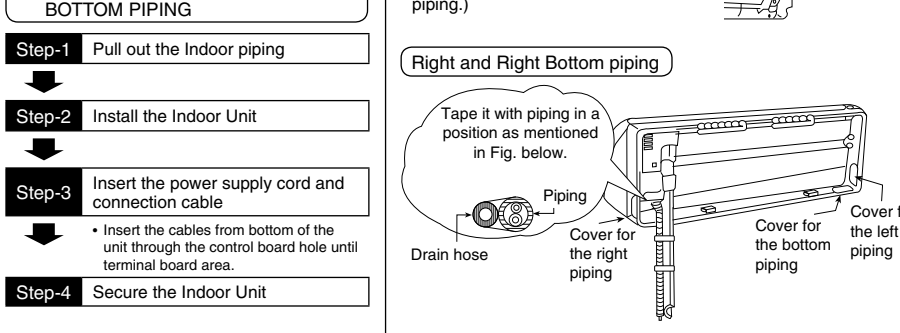
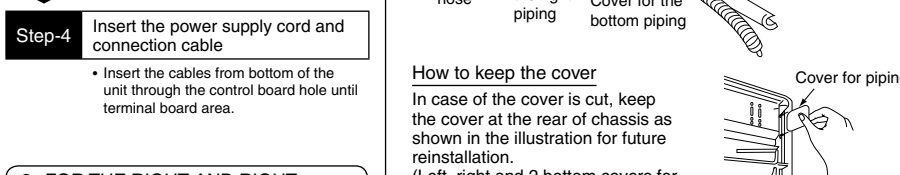
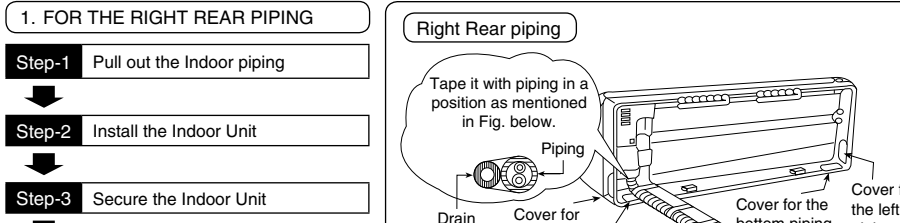
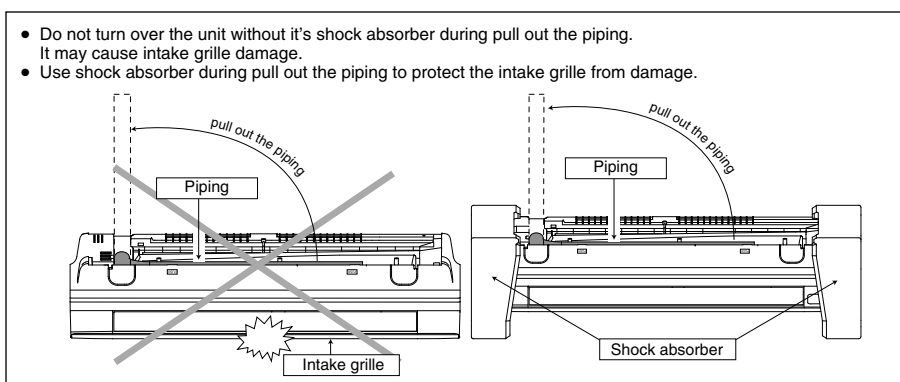
## 5 CONNECT THE CABLE TO THE INDOOR UNIT



Terminals on the outdoor unit		Terminals on the indoor unit	
Colour of wires (connection cable)	1 2 3	Colour of wires (power supply cord)	1 2 3
1 (Blue)	1	L (Blue)	1
2 (Red)	2	N (Yellow/Green)	2
3 (Black)	3	(Earth wire)	3



## 4 INDOOR UNIT INSTALLATION

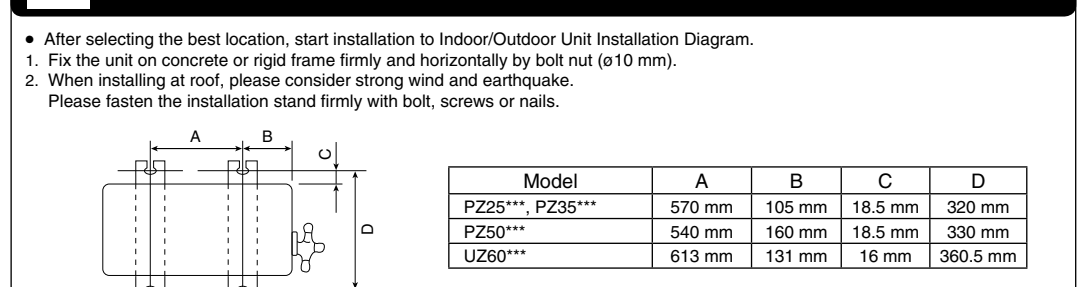


# OUTDOOR UNIT

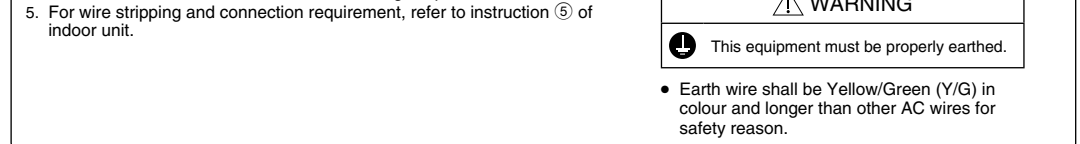
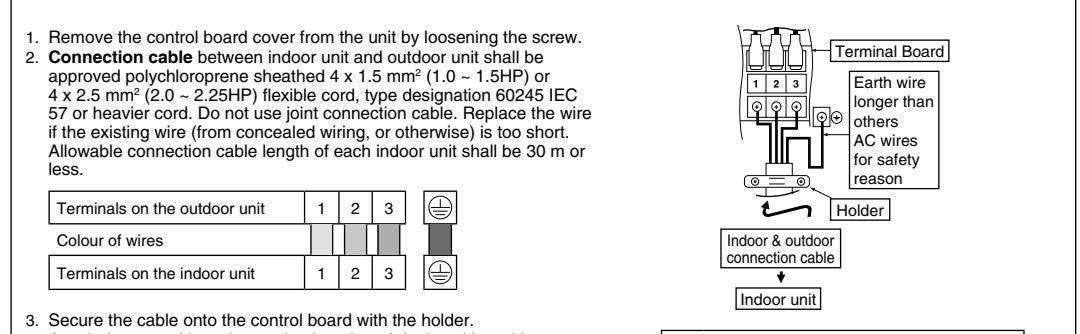
## 1 SELECT THE BEST LOCATION

(Refer to "Select the best location" section)

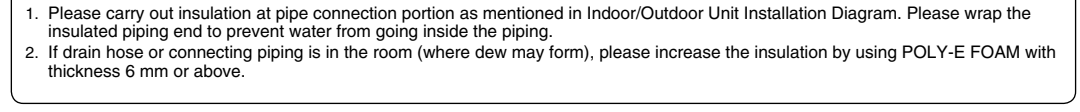
## 2 INSTALL THE OUTDOOR UNIT



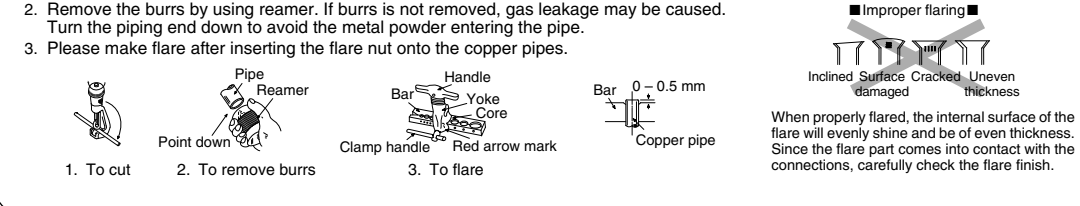
## 5 CONNECT THE CABLE TO THE OUTDOOR UNIT



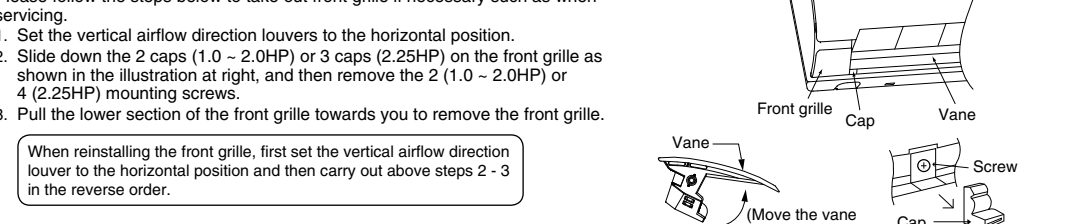
## 6 PIPING INSULATION



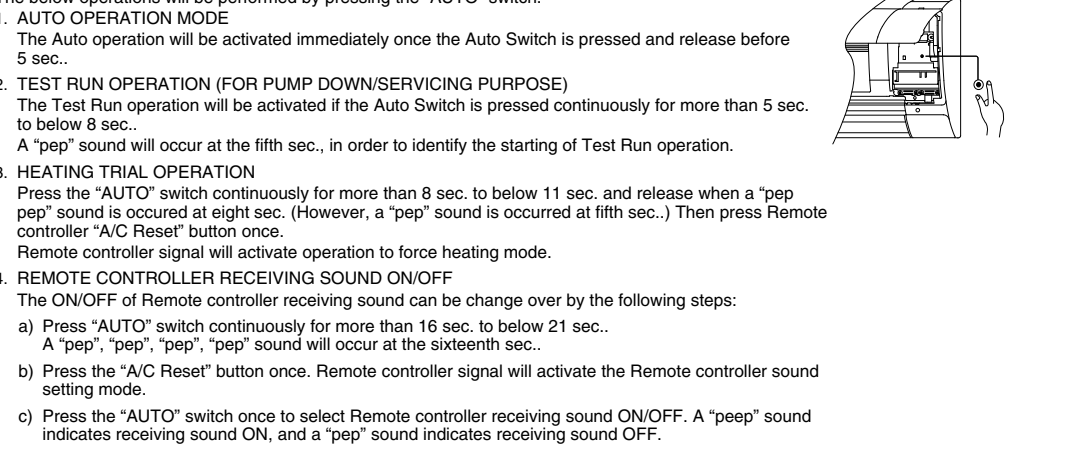
## CUTTING AND FLARING THE PIPING



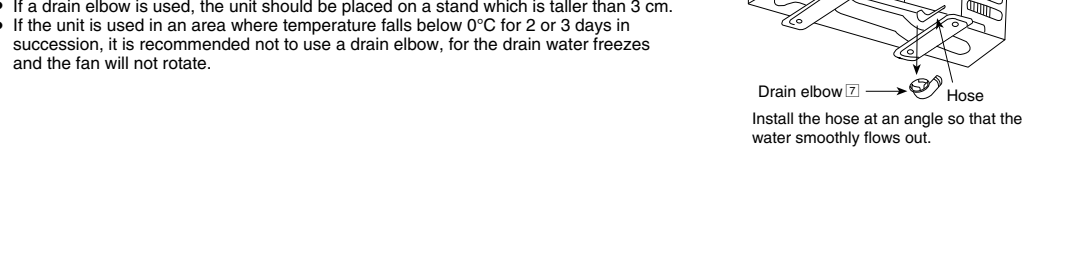
## HOW TO TAKE OUT FRONT GRILLE



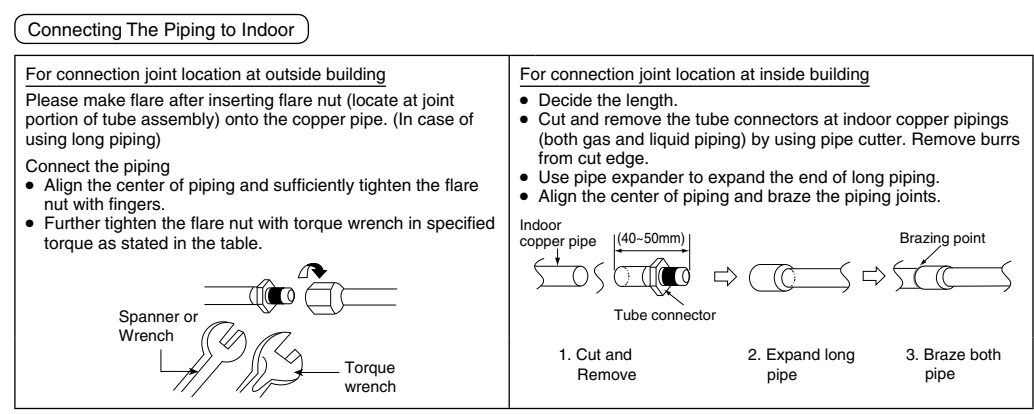
## AUTO SWITCH OPERATION



## DISPOSAL OF OUTDOOR UNIT DRAIN WATER



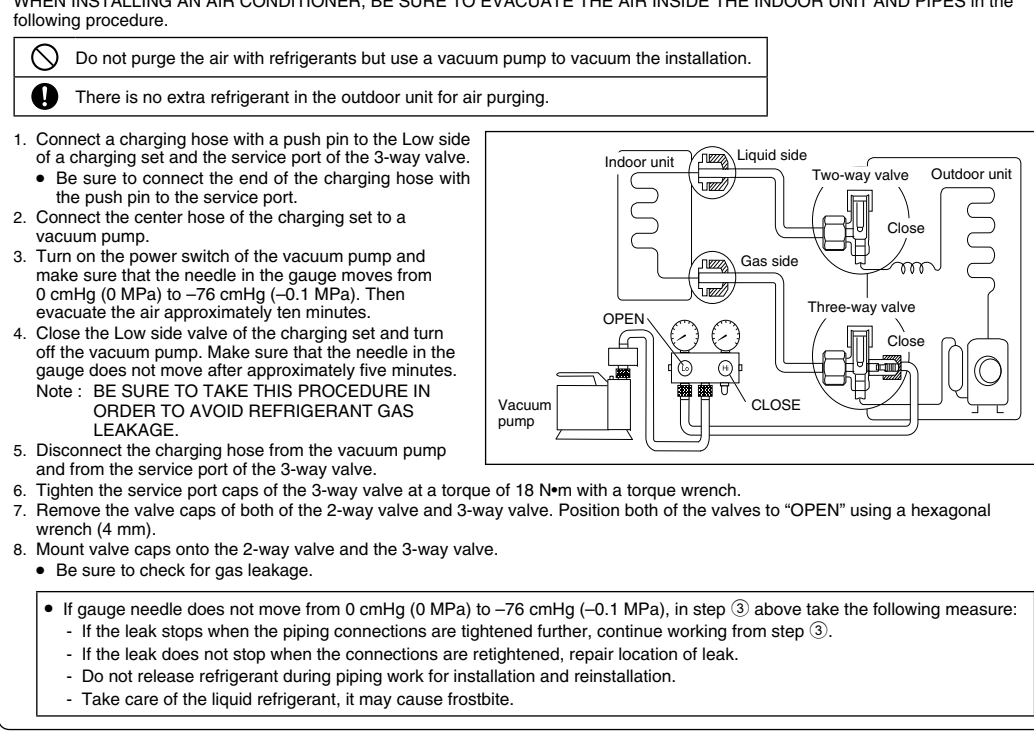
## 3 CONNECT THE PIPING



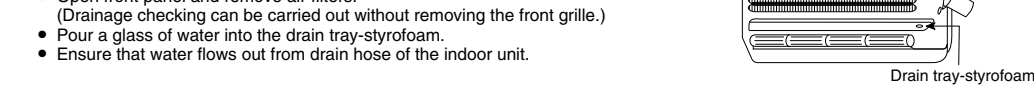
Do not overlighten, overlightening may cause gas leakage.		
Piping size	Torque	
6.35 mm (1/4")	[18 N·m (1.8 kgf·m)]	
9.52 mm (3/8")	[42 N·m (4.3 kgf·m)]	
12.7 mm (1/2")	[55 N·m (5.6 kgf·m)]	
15.88 mm (5/8")	[65 N·m (6.6 kgf·m)]	
19.05 mm (3/4")	[100 N·m (10.2 kgf·m)]	

## AIR PURGING METHOD IS PROHIBITED FOR R32 SYSTEM

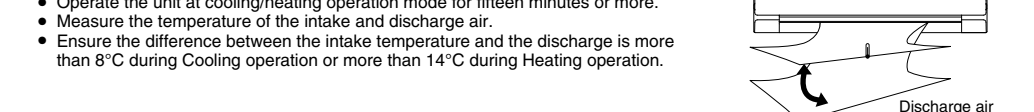
## 4 EVACUATION OF THE EQUIPMENT



## CHECK THE DRAINAGE



## EVALUATION OF THE PERFORMANCE



## INSTALLATION OF AIR PURIFYING FILTER



## CHECK ITEMS

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



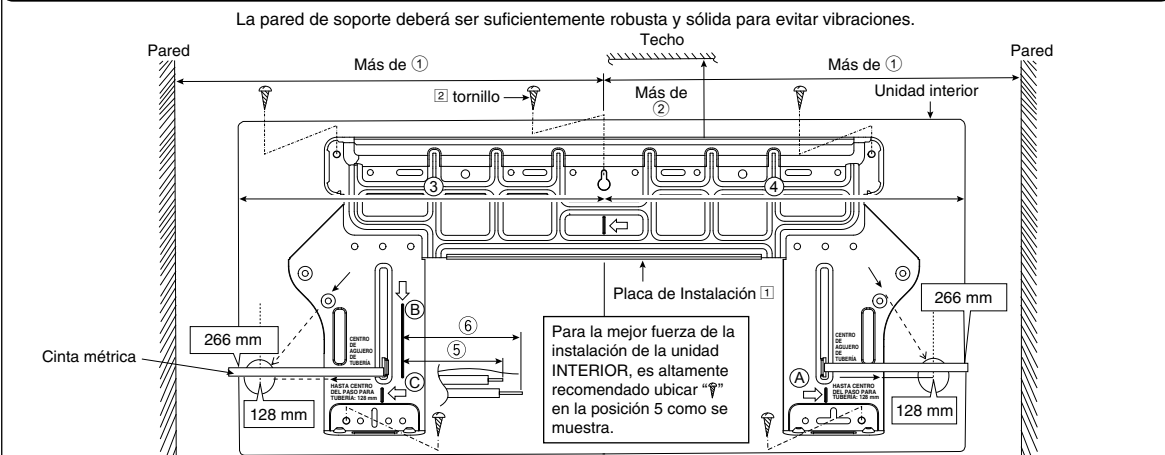


# UNIDAD INTERIOR

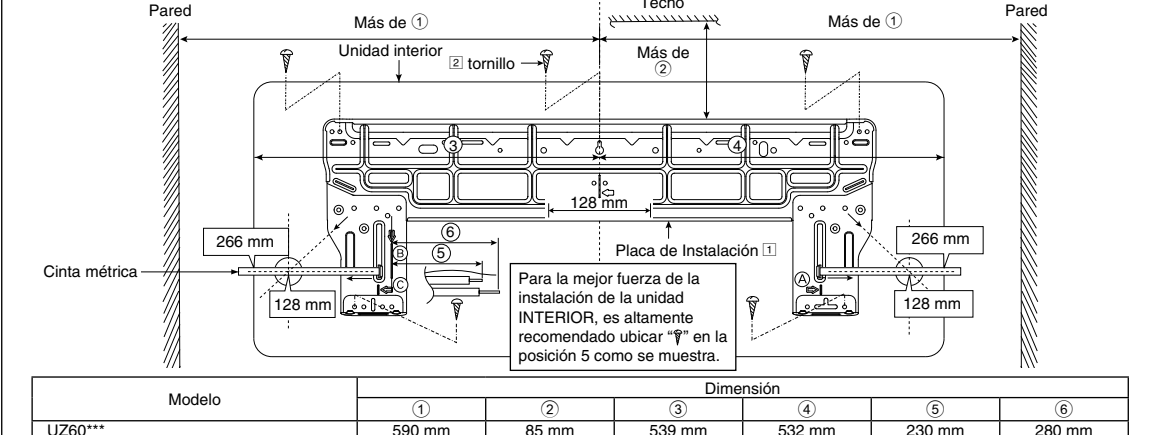
## 1 SELECCIONE LA MEJOR UBICACIÓN

(Vea la sección "Selección de la mejor ubicación")

## 2 COMO MONTAR LA PLACA DE INSTALACIÓN



Modelo	1	2	3	4	5	6
PZ25***, PZ35***	480 mm	80 mm	425 mm	425 mm	43 mm	95 mm
PZ50***	490 mm	90 mm	439 mm	432 mm	43 mm	95 mm

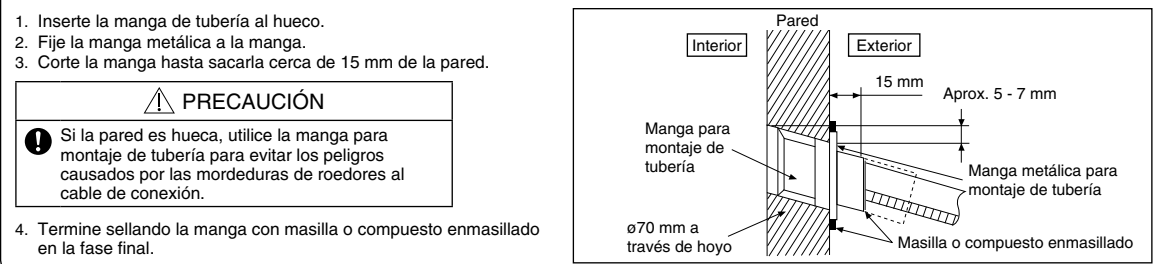


Modelo	1	2	3	4	5	6
UZ260***	590 mm	85 mm	539 mm	532 mm	230 mm	280 mm

El centro de la placa de montaje debería estar a más de ① a la derecha e izquierda de la pared. La distancia entre el borde de la placa de montaje y el techo debe ser de más de ②. Desde el centro de la placa de montaje hasta el lateral izquierdo de la unidad, debe haber ③. Desde el centro de la placa de montaje hasta el lateral derecho de la unidad, debe haber ④. ⑤: Para la tubería del lado izquierdo, la conexión de la conducción para líquido debe estar a unos ⑤ de esta línea. ⑥: Para la tubería del lado izquierdo, la conexión de la conducción para gas debe estar a unos ⑥ de esta línea.

- Monte la placa de instalación en la pared con 5 tornillos o más (por lo menos 5 tornillos). (Si fija la unidad en una pared de hormigón considere utilizar pernos de anclaje.)
- Coloque siempre la lámina de instalación horizontalmente alineando la línea de demarcación utilizando un nivel.
- Perfore el hueco de la placa de tubería con un taladro de broca de  $\varnothing 70$  mm.
- Nivélelo de acuerdo con el lado izquierdo y derecho de la placa de instalación. El punto de encuentro de la línea extendida es el centro del agujero. Otro método consiste en aplicar cinta métrica en la posición indicada en el diagrama de arriba. El centro del agujero se obtiene midiendo la distancia, o sea, 128 mm para el agujero de la izquierda y de la derecha respectivamente.
- Perfore el hueco de la tubería ya sea a la derecha o a la izquierda y el hueco deberá estar apenas inclinado hacia el lado exterior.

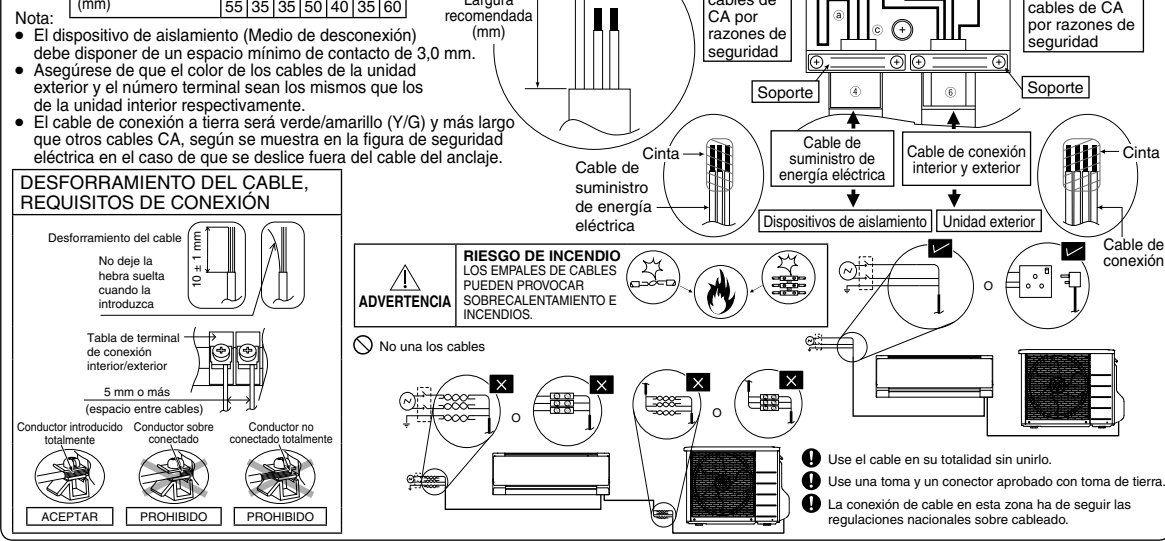
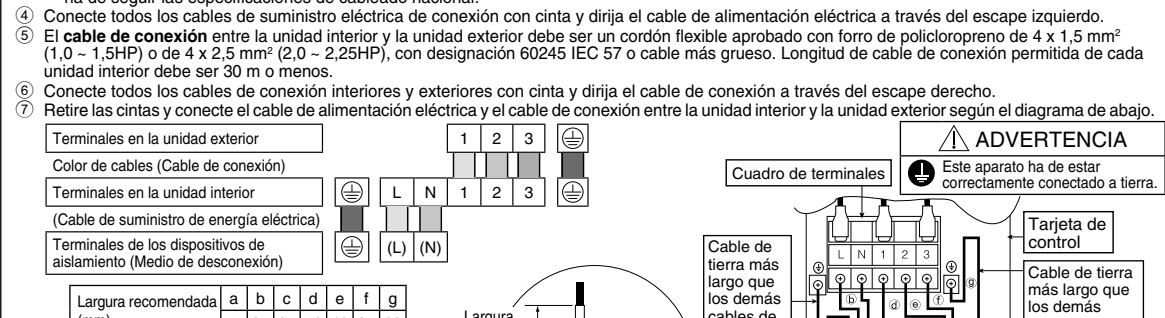
## 3 PARA PERFORAR UN HUECO EN LA PARED E INSTALAR UNA MANGA DE TUBERÍA



## 5 CONECTE EL CABLE A LA UNIDAD INTERIOR

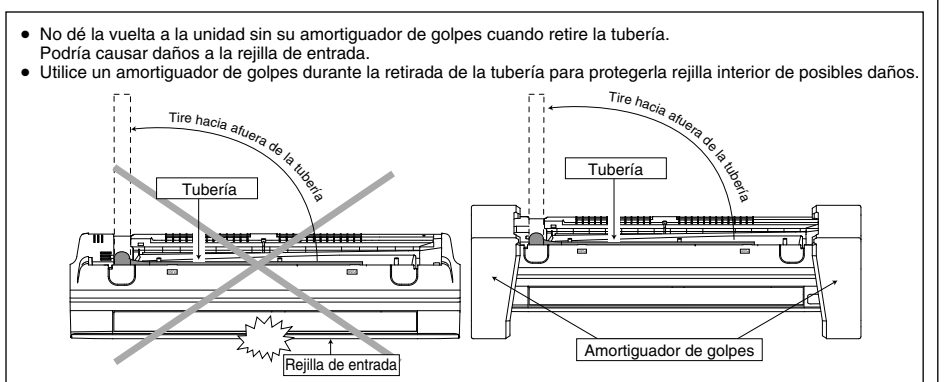
El cable de alimentación eléctrica, la unidad interior y el cable de conexión de la unidad exterior pueden ser conectados sin desmontar la rejilla frontal.

- Abra el panel frontal y la puerta de rejilla alojando el tornillo.
- Conexión del cable a la red con dispositivos de aislamiento (Medio de desconexión).
- Conecte el cable de alimentación homologado, con forro de polipropileno de  $3 \times 1,5 \text{ mm}^2$  (1,0 ~ 1,5HP) o  $3 \times 2,5 \text{ mm}^2$  (2,0 ~ 2,25HP), con designación tipo 60245 IEC 57 o de calibre superior, a la tarjeta de control y conecte el otro extremo del cable a los dispositivos de aislamiento (dispositivo de desconexión).
- No utilice el cable de alimentación eléctrica unido. Sustituya el cable si el cable existente (de cableado oculto, o no) es demasiado corto.
- En caso inevitable, la unión del cable de alimentación eléctrica entre los dispositivos de aislamiento y el cuadro de terminales del aire acondicionado se realizará utilizando una toma y un conector aprobados de 15/16A (1,0 ~ 1,5HP) ó 16A (2,0 ~ 2,25HP). El trabajo de cableado para toma y conector ha de seguir las especificaciones de cableado nacional.
- Conecte todos los cables de conexión eléctrica de la unidad interior con cinta y dirija el cable de alimentación eléctrica a través del escape izquierdo.
- El cable de conexión entre la unidad interior y la unidad exterior debe ser un cordón flexible aprobado con forro de polipropileno de  $4 \times 1,5 \text{ mm}^2$  (1,0 ~ 1,5HP) o  $4 \times 2,5 \text{ mm}^2$  (2,0 ~ 2,25HP), con designación 60245 IEC 57 o cable más grueso. Longitud de cable de conexión permitida de cada unidad interior debe ser 30 m o menos.
- Conecte todos los cables de conexión interiores y exteriores con cinta y dirija el cable de conexión a través del escape derecho.
- Retire las cintas y conecte el cable de alimentación eléctrica y el cable de conexión entre la unidad interior y la unidad exterior según el diagrama de abajo.

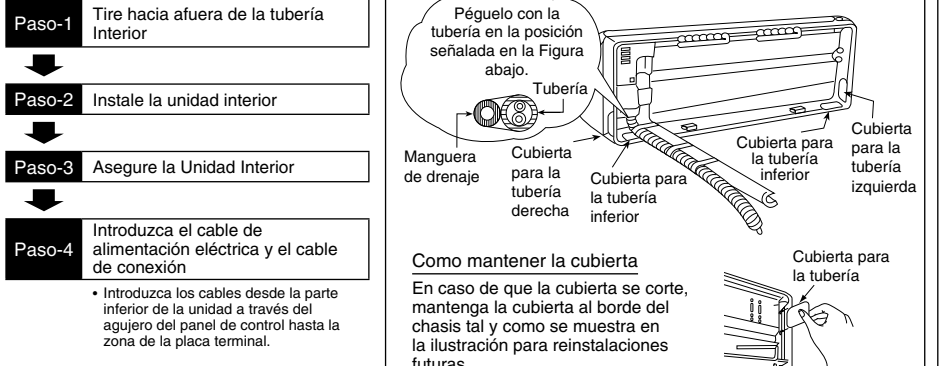


Use el cable en su totalidad sin unirlo. Use una toma y un conector aprobado con toma de tierra. La conexión de cable en esta zona ha de seguir las regulaciones nacionales sobre cableado.

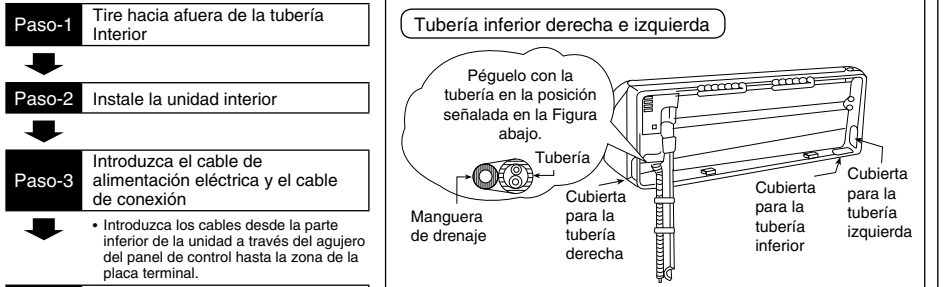
## 4 INSTALACIÓN DE UNIDAD INTERIOR



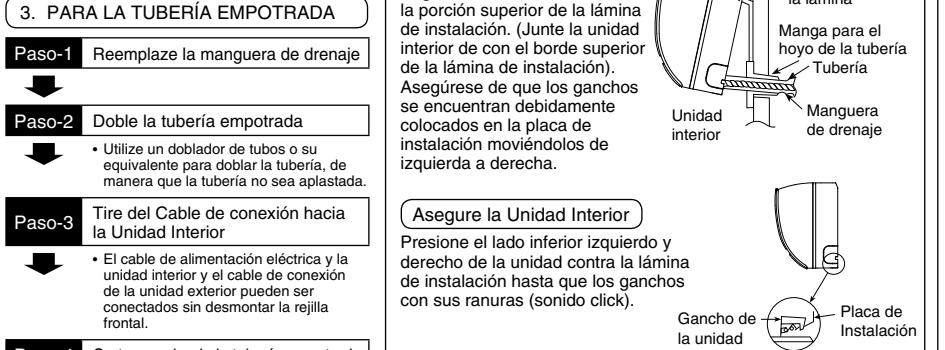
### 1. PARA LA TUBERÍA POSTERIOR DERECHA



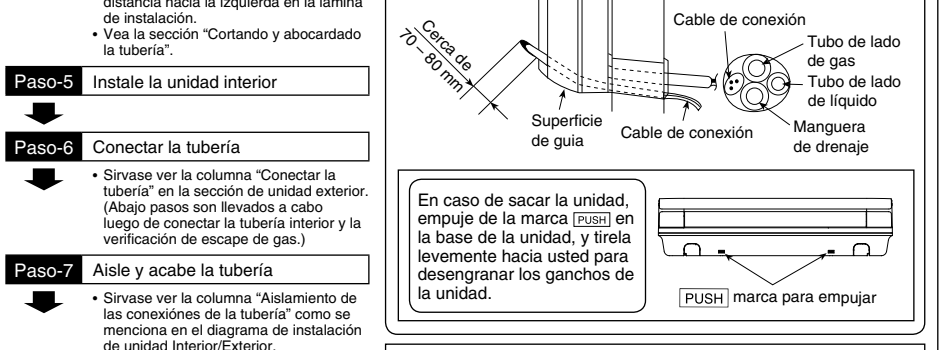
### 2. PARA LA TUBERÍA DERECHA E INFERIOR DERECHA



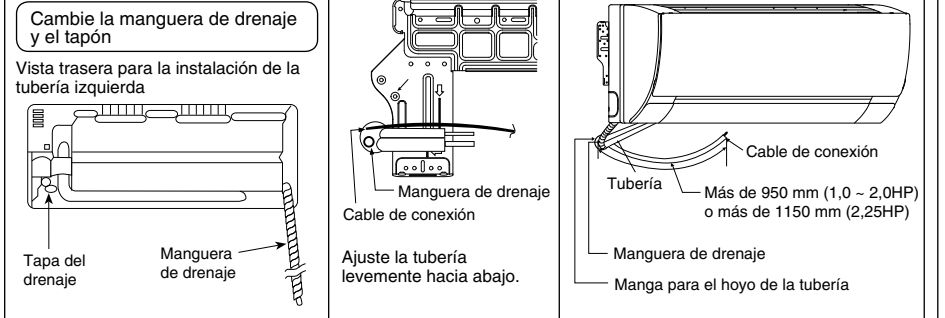
### 3. PARA LA TUBERÍA EMPOTRADA



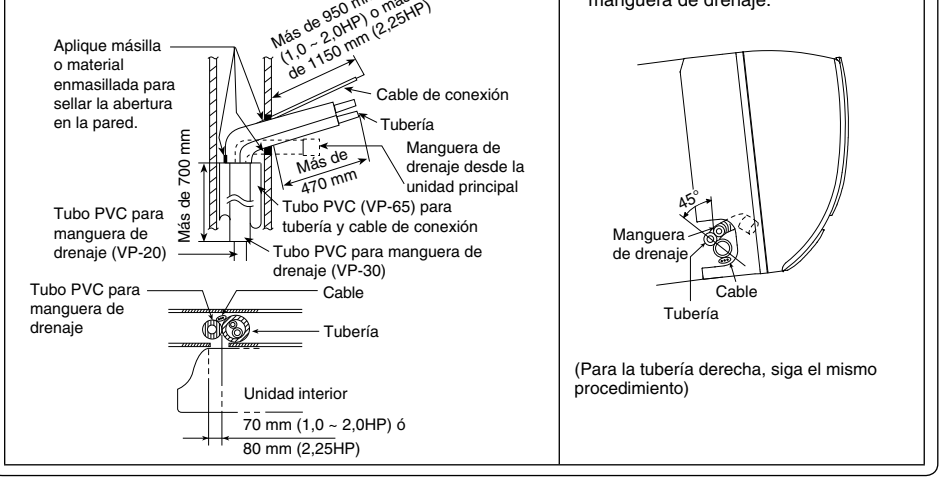
### 4. PARA LA TUBERÍA EMPOTRADA



### 5. PARA LA TUBERÍA EMPOTRADA



### 6. PARA LA TUBERÍA EMPOTRADA



# UNIDAD EXTERIOR

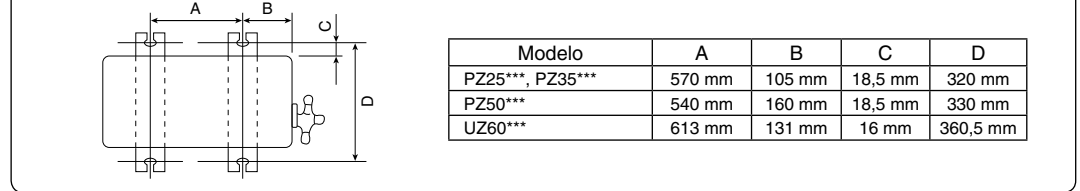
## 1 SELECCIONE LA MEJOR UBICACIÓN

(Vea la sección "Selección de la mejor ubicación")

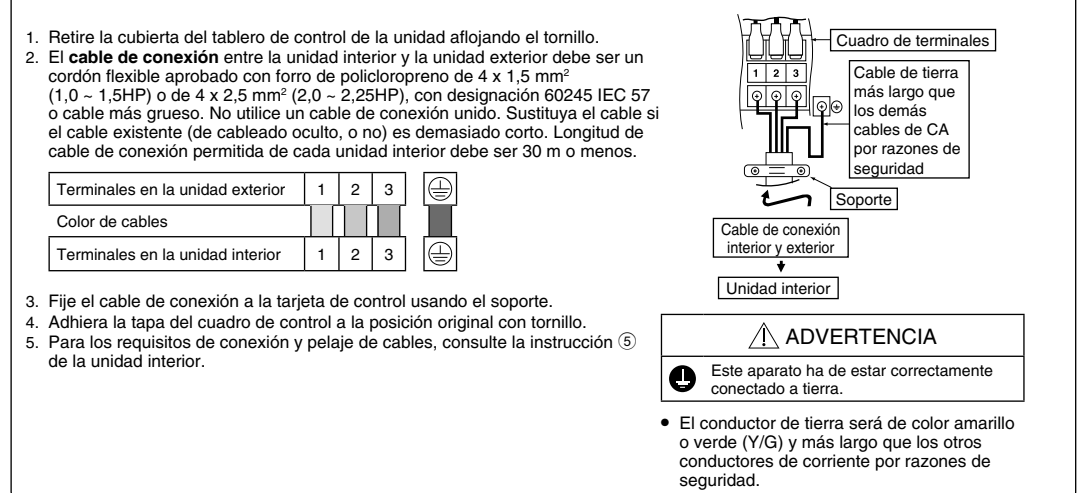
## 2 INSTALE LA UNIDAD EXTERIOR

Luego de escoger la mejor ubicación, inicie la instalación de acuerdo al Diagrama de Instalación de la Unidad Interior/Exterior.

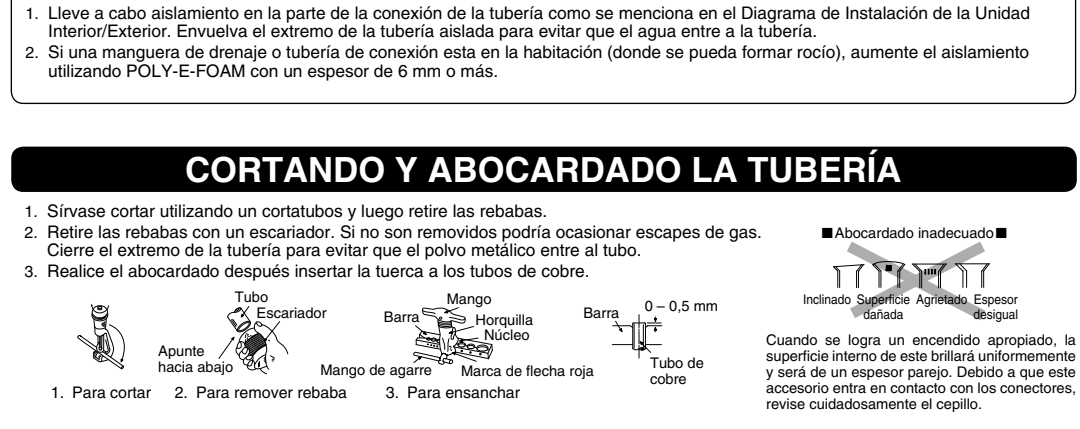
- Fije la unidad al hormigón o a un marco sólido firme y horizontalmente por medio una tuercas sujetas con tornillos ( $\varnothing 10$  mm).
- Al instalar en el techo, tome en consideración el viento fuerte y terremoto. Sujete el pie de la instalación firmemente con pernos, tornillos o clavos.



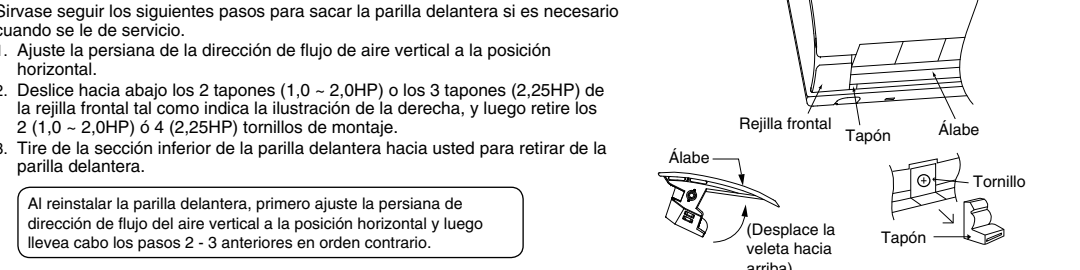
## 5 CONECTE EL CABLE A LA UNIDAD EXTERIOR



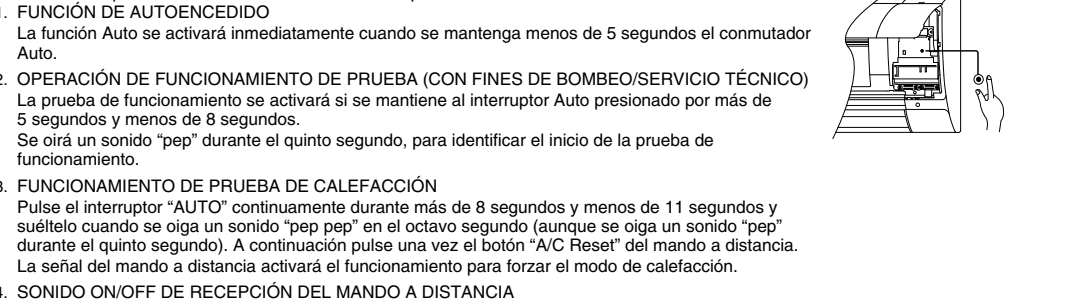
## 6 AISLANTE DE TUBERÍAS



## CORTANDO Y ABOCARDADO LA TUBERÍA



## CÓMO RETIRAR LA PARILLA DELANTERA



## FUNCIÓN DE AUTOENCENDIDO

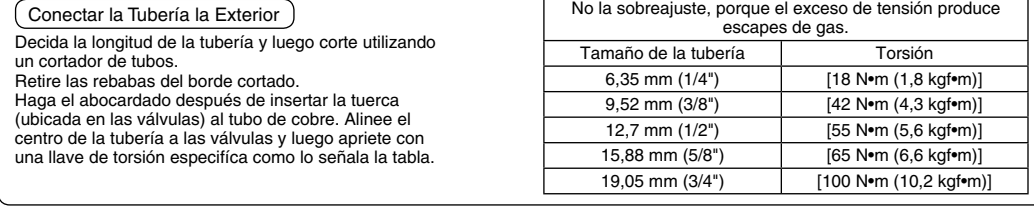
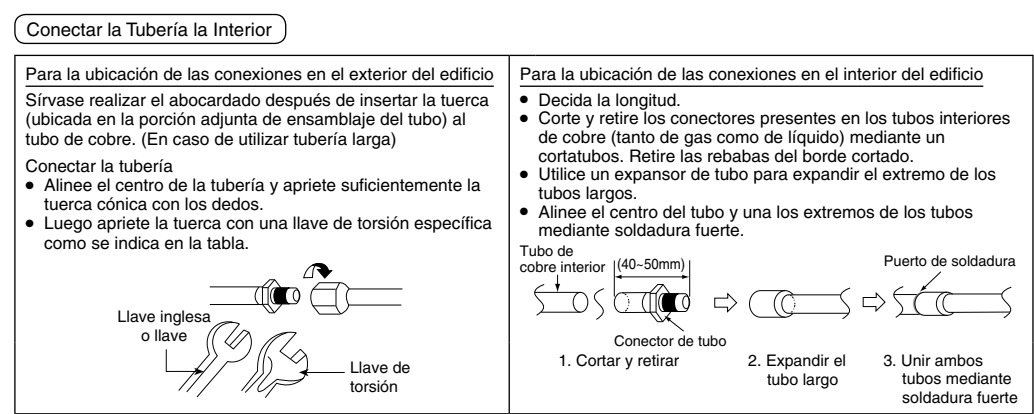
Las funciones que vienen a continuación se activarán pulsando el conmutador "AUTO".

- FUNCIÓN DE AUTOENCENDIDO**  
La función Auto se activará inmediatamente cuando se mantenga menos de 5 segundos el conmutador Auto.
- OPERACIÓN DE FUNCIONAMIENTO DE PRUEBA (CON FINES DE BOMBEO/SERVICIO TÉCNICO)**  
La prueba de funcionamiento se activará si se mantiene el interruptor Auto presionado por más de 5 segundos y menos de 8 segundos. Se oirá un sonido "pep" durante el quinto segundo, para identificar el inicio de la prueba de funcionamiento.
- FUNCIONAMIENTO DE PRUEBA DE CALEFACCIÓN**  
Pulse el interruptor "AUTO" continuamente durante más de 8 segundos y menos de 11 segundos y suéltelo cuando se oiga un sonido "pep pep" en el octavo segundo (aunque se oiga un sonido "pep" durante el quinto segundo). A continuación pulse una vez el botón "A/C Reset" del mando a distancia. La señal del mando a distancia activará el funcionamiento para forzar el modo de calefacción.
- SONIDO ON/OFF DE RECEPCIÓN DEL MANDO A DISTANCIA**  
Si desea cambiar el ON/OFF del sonido de recepción del mando a distancia, siga los pasos siguientes:  
a) Pulse el interruptor "AUTO" continuamente durante más de 16 segundos y menos de 21 segundos. Escuchará cuatro pitidos breves intermitentes a los 16 segundos.  
b) Pulse el botón "A/C Reset" una vez. La señal del mando a distancia activará el modo de configuración de sonido del mando inalámbrico.  
c) Pulse el interruptor "AUTO" una vez para seleccionar la des/activación (ON/OFF) de recepción de sonido del mando a distancia. Un sonido "piipi" indica la activación (ON) de recepción de sonido, y un sonido "pep" indica la desactivación (OFF) de recepción de sonido.

## ELIMINACIÓN DEL AGUA DE DRENAJE DE LA UNIDAD EXTERIOR

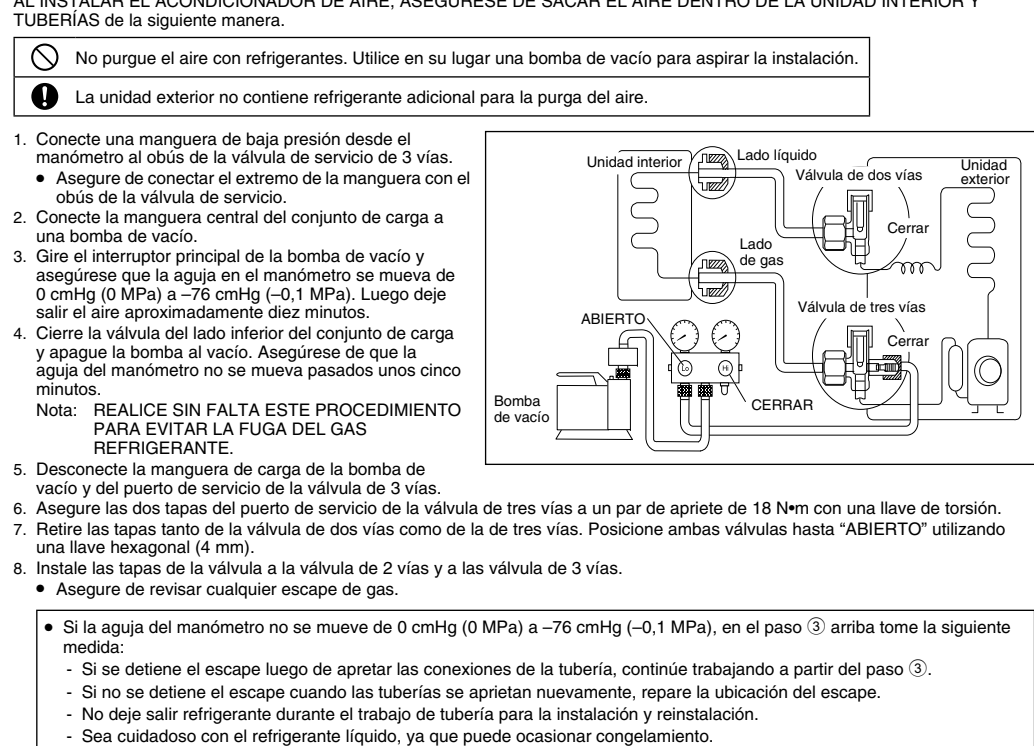
Si utiliza un codo de drenaje, la unidad deberá colocarse en un pedestal de más de 3 cm de altura. Si la unidad de utiliza en una zona donde la temperatura descienda por debajo de 0°C durante 2 o 3 días sucesivos, se recomienda no utilizar un codo de drenaje, ya que el agua de drenaje se congelará y el ventilador no girará.

## 3 CONECTAR LAS TUBERÍAS



## EL MÉTODO DE PURGADO DE AIRE ESTÁ PROHIBIDO EN SISTEMAS R32

## 4 EVACUACIÓN DEL EQUIPO



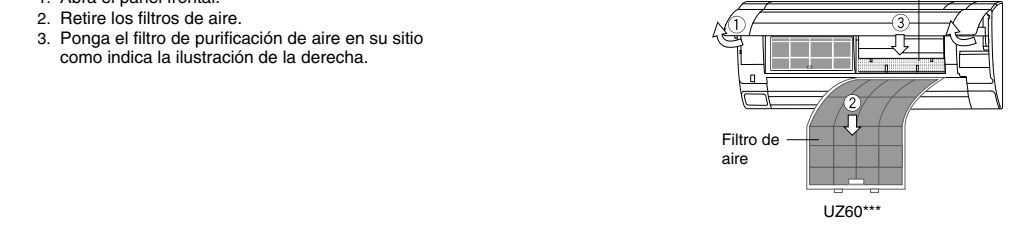
## REVISIÓN DEL DRENAJE

Abra el panel frontal y retire los filtros de aire. (La comprobación del drenaje puede hacerse sin desmontar la rejilla frontal.) Vierta un vaso de agua a la bandeja de drenaje. Revise si el agua fluye hacia afuera de la manguera de drenaje de la unidad interior.

## EVALUACIÓN DE LA DEL RENDIMIENTO

Opere la unidad en el modo de función de enfriamiento/calefacción por quince minutos o más. Mida la temperatura del aire de entrada y de salida. Asegúrese que la diferencia entre la temperatura de entrada y salida sea mayor de 8°C durante la operación de enfriamiento o mayor de 14°C durante la operación de calefacción.

## INSTALACIÓN DEL FILTRO DE PURIFICACIÓN DE AIRE



## COMPROBAR ITEMS

- ¿Existe algún escape de gas en la conexión de la tuerca?
- ¿Se ha llevado a cabo el aislamiento de calor en la conexión de la tuerca?
- ¿Ha sido fijado firmemente el cable de conexión al tablero del terminal?
- ¿Ha sido engranado firmemente el cable de conexión?
- ¿Se encuentra en buen estado el drenaje? (Vea la sección "Revisión del drenaje").
- ¿Se ha llevado a cabo debidamente la conexión a tierra?
- ¿Ha sido enganchada debidamente la unidad interior a la placa de instalación?
- ¿Cumple el estado de la alimentación de corriente con el valor tasado?
- ¿Existe algún sonido anormal?
- ¿Es normal la operación de enfriamiento y calefacción?
- ¿Es normal el funcionamiento del termostato?
- ¿Es normal el funcionamiento del LCD del control remoto?
- ¿El filtro de purificación de aire está instalado?



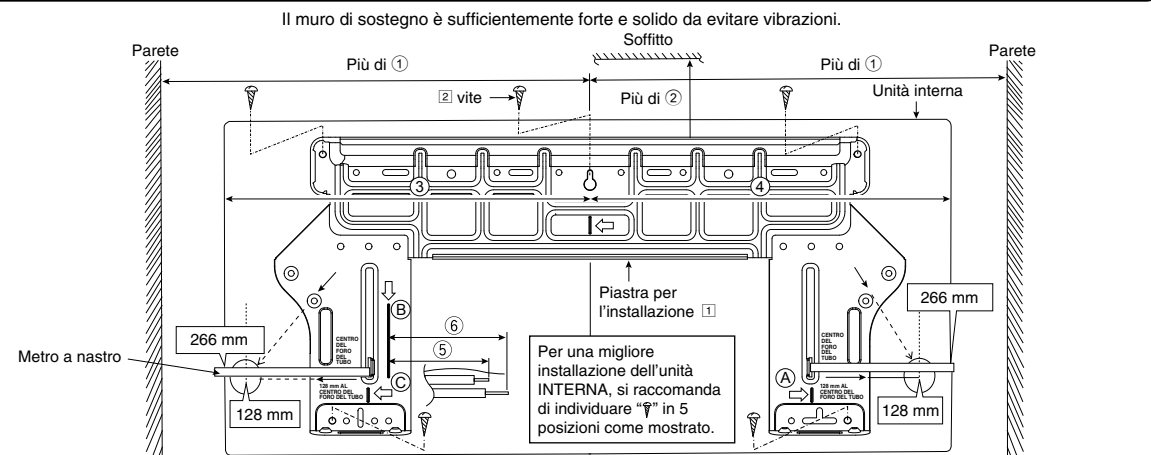


# UNITÀ INTERNA

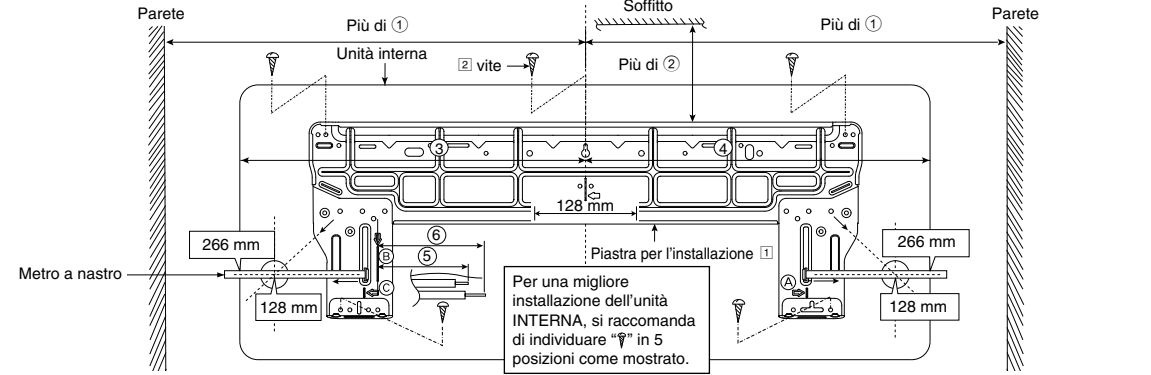
## 1 SCEGLIERE LA POSIZIONE MIGLIORE

(Vedi il paragrafo "Scegliere la posizione migliore")

## 2 COME FISSARE LA DIMA DI INSTALLAZIONE



Modello	①	②	③	④	⑤	⑥
PZ25***, PZ35***	480 mm	80 mm	425 mm	425 mm	43 mm	95 mm
PZ50***	490 mm	90 mm	430 mm	432 mm	43 mm	95 mm

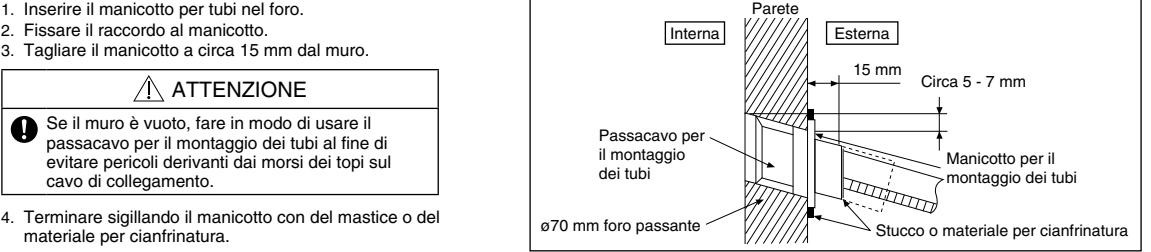


Modello	①	②	③	④	⑤	⑥
UZ260***	590 mm	85 mm	539 mm	532 mm	230 mm	280 mm

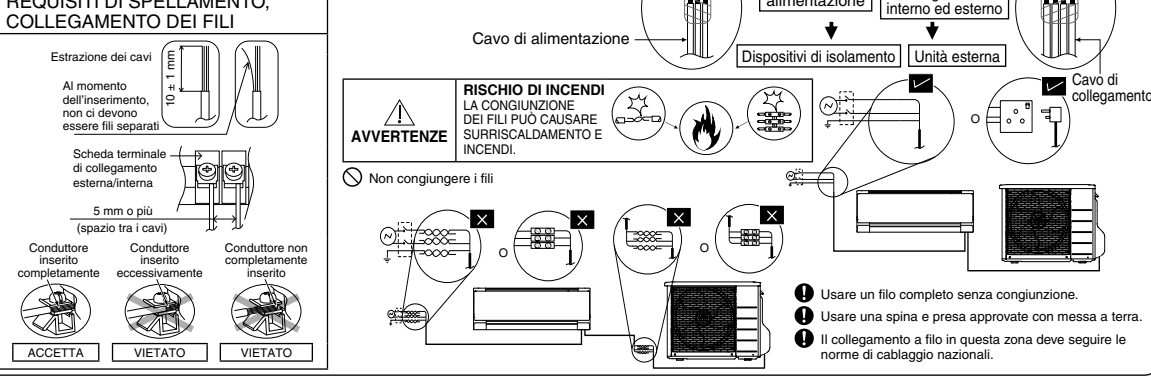
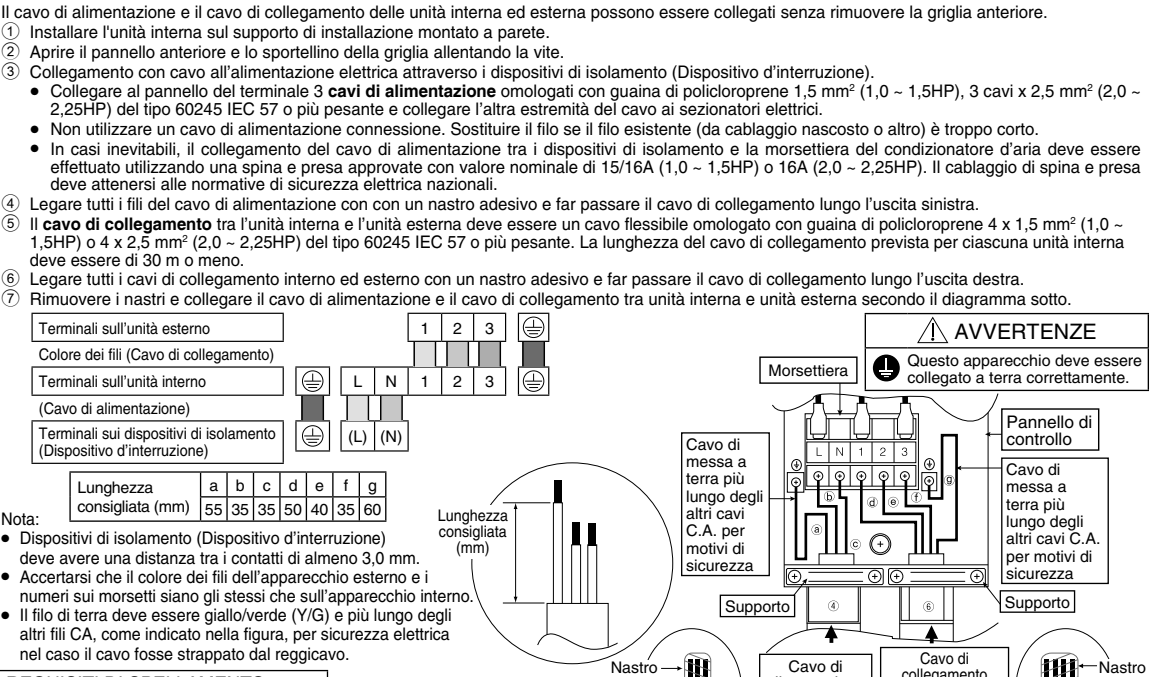
La distanza fra il centro della piastra di installazione e i lati destro e sinistro della parete deve essere superiore a ①.  
 La distanza fra il bordo della piastra di installazione e il soffitto deve essere superiore a ②.  
 La distanza fra il centro della dima di installazione e il lato sinistro dell'unità è di ③.  
 La distanza fra il centro della dima di installazione e il lato destro dell'unità è di ④.  
 ⑤ Per le tubazioni di sinistra, il collegamento dei tubi per il liquido deve trovarsi a circa ⑤ da questa linea.  
 ⑥ Per le tubazioni di destra, il collegamento dei tubi per il gas deve trovarsi a circa ⑥ da questa linea.

- Montare la piastra di installazione sulla parete con le 5 viti (o più) (almeno 5 viti). (Se l'apparecchio viene montato su muro in calcestruzzo, usare bulloni di ancoraggio.)
- Montare sempre la piastra per l'installazione orizzontalmente allineando la tracciatura con il filo a piomba e usando il livello.
- Forare la piastra per l'installazione con un trapano e una punta di ø 70 mm.
  - Linea in base al lato destro e sinistro della piastra d'installazione.
  - Il punto d'incontro della linea estesa corrisponde al centro del foro.
  - Un altro metodo è mettendo un metro nella posizione come mostrato nel diagramma di cui sopra.
  - Il centro dei fori si ottiene misurando la distanza, cioè 128 mm rispettivamente per il foro sinistro e destro.
  - Forare il tubo sia a destra che a sinistra. Il foro dovrebbe essere leggermente inclinato verso il lato esterno.

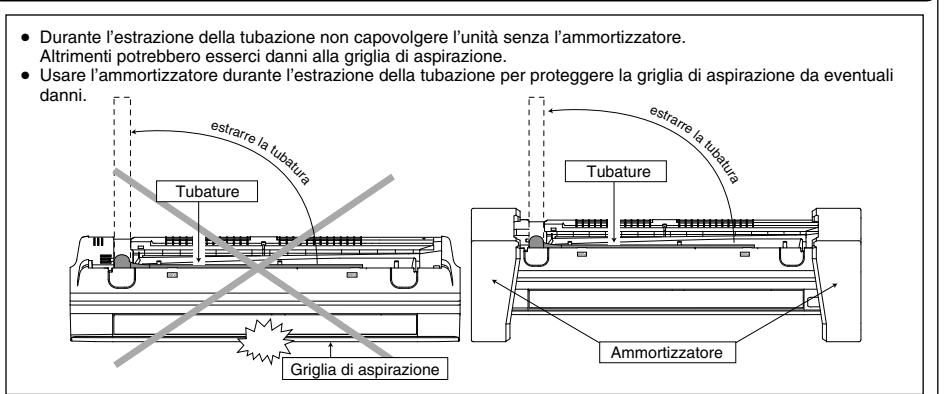
## 3 FORARE IL MURO E INSTALLARE UN MANICOTTO PER TUBI



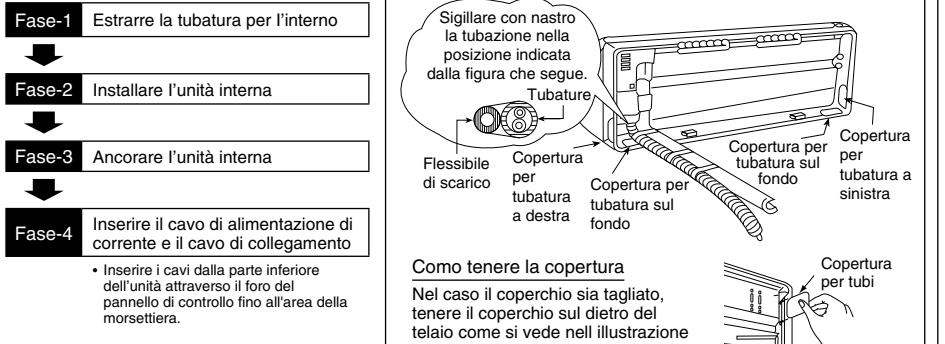
## 5 COLLEGAMENTO DEL CAVO ALL'UNITÀ INTERNA



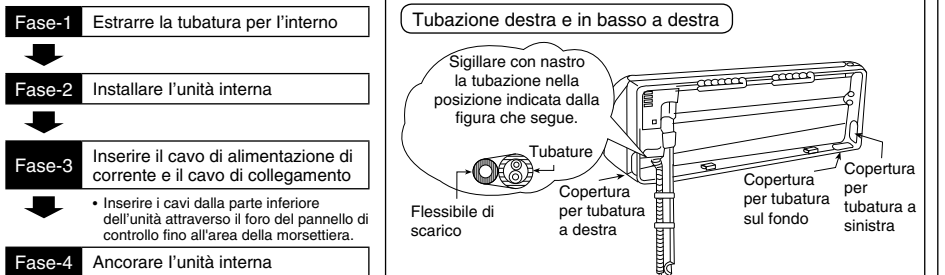
## 4 INSTALLAZIONE DEL UNITÀ INTERNA



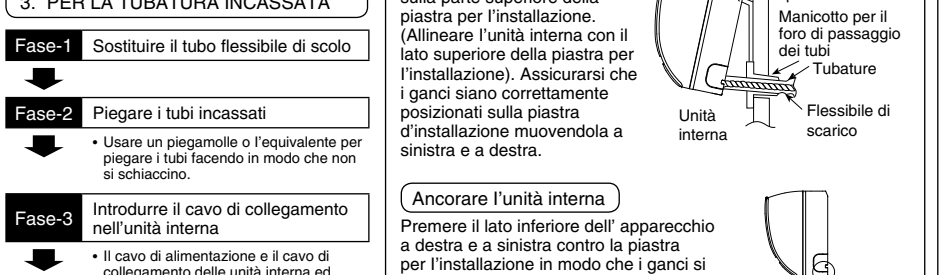
### 1. PER LA TUBATURA POSTERIOR DESTRA



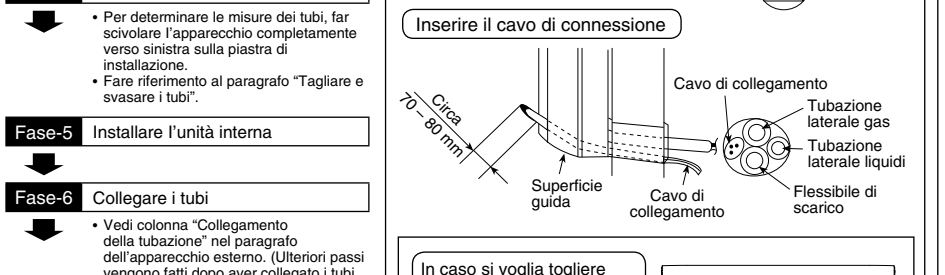
### 2. PER TUBATURA A DESTRA E SUL FONDO A DESTRA



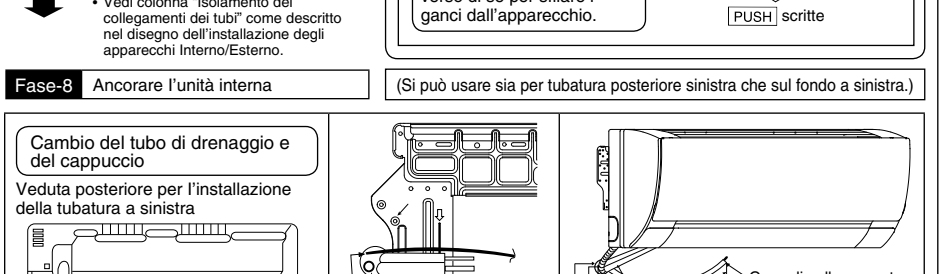
### 3. PER LA TUBATURA INCASSATA



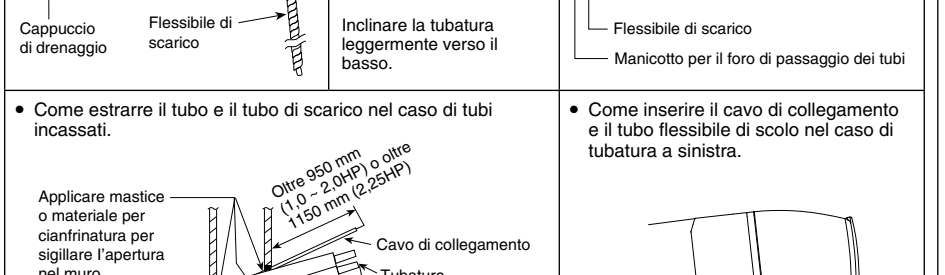
### Fase-5



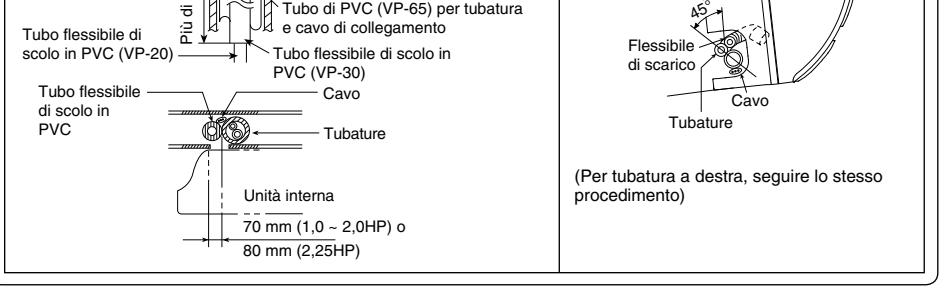
### Fase-8



### • Come estrarre il tubo e il tubo di scarico nel caso di tubi incassati.



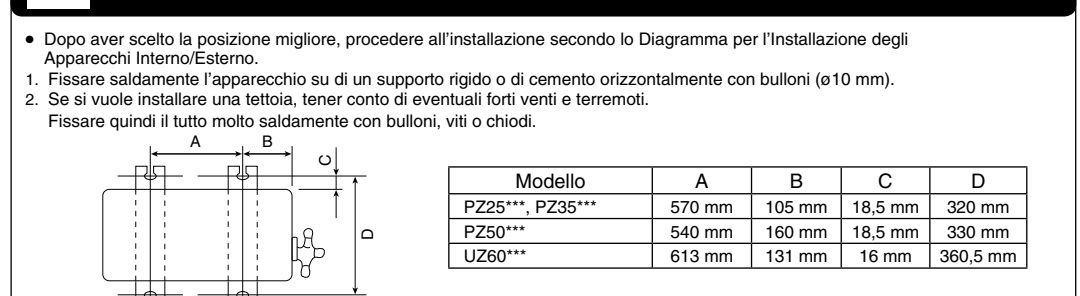
### • Come inserire il cavo di collegamento e il tubo flessibile di scolo nel caso di tubatura a sinistra.



## 1 SCEGLIERE LA POSIZIONE MIGLIORE

(Vedi il paragrafo "Scegliere la posizione migliore")

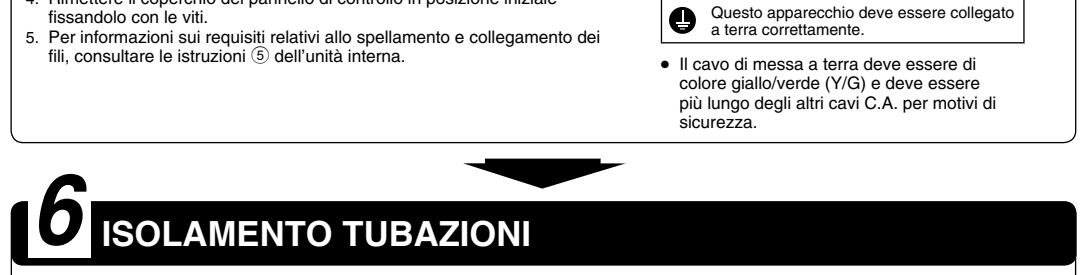
## 2 INSTALLAZIONE DELL'UNITÀ ESTERNA



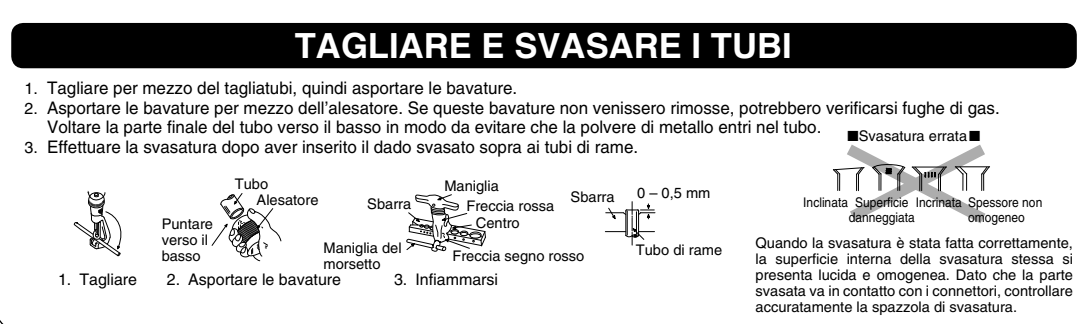
## 5 COLLEGAMENTO DEL CAVO ALL'UNITÀ ESTERNA



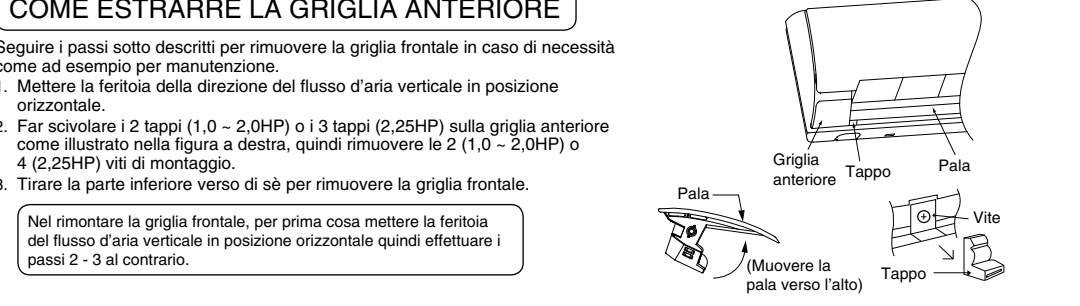
## 6 ISOLAMENTO TUBAZIONI



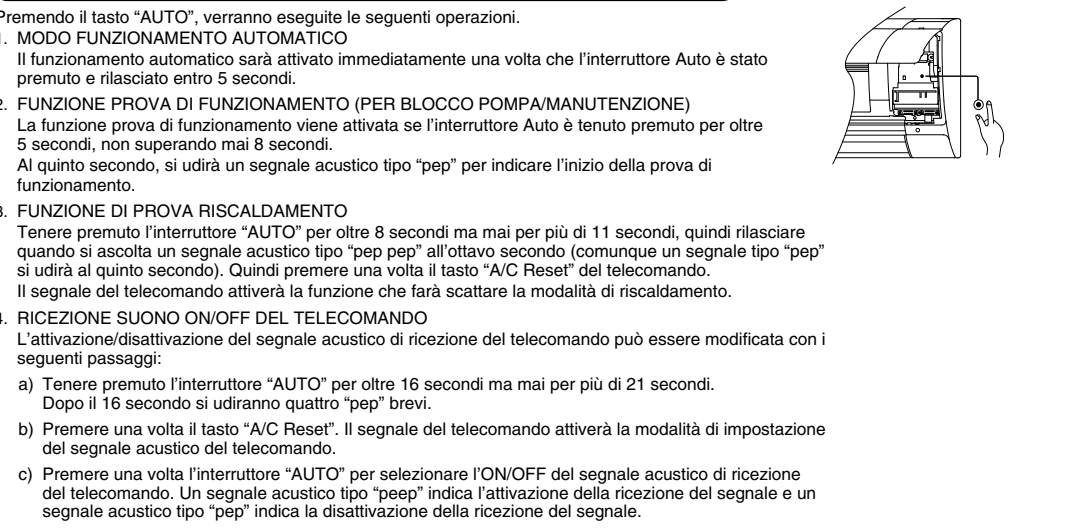
## TAGLIARE E SVASARE I TUBI



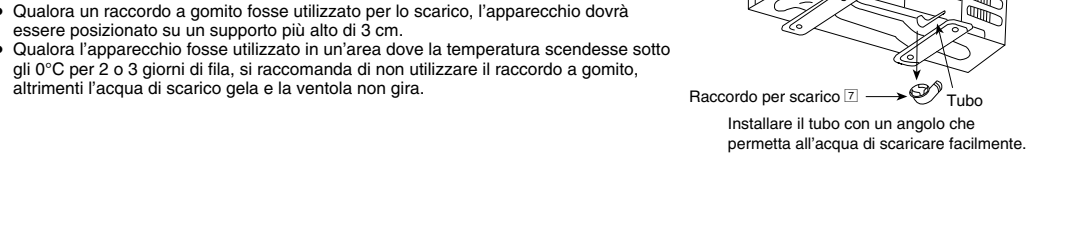
## COME ESTRARRE LA GRIGLIA ANTERIORE



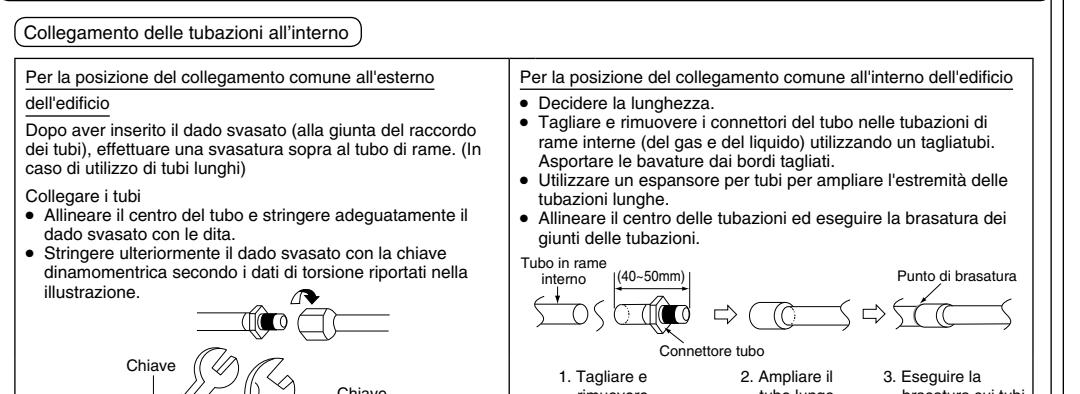
## FUNZIONAMENTO DELL'INTERRUTTORE AUTOMATICO



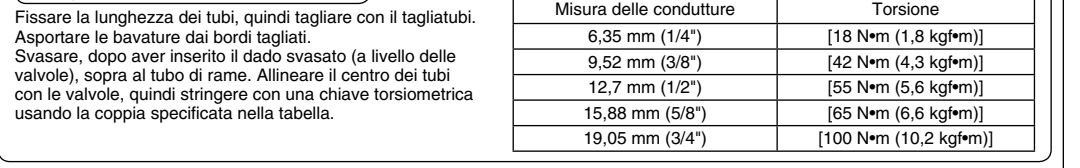
## SMALTIMENTO ACQUA DI SCARICO UNITÀ ESTERNA



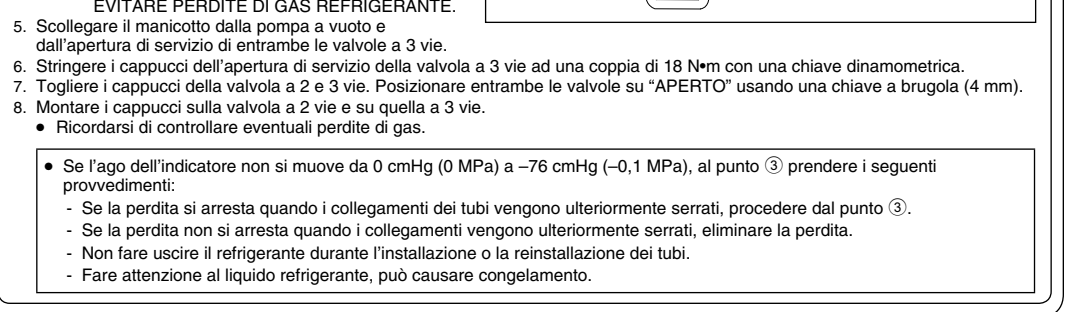
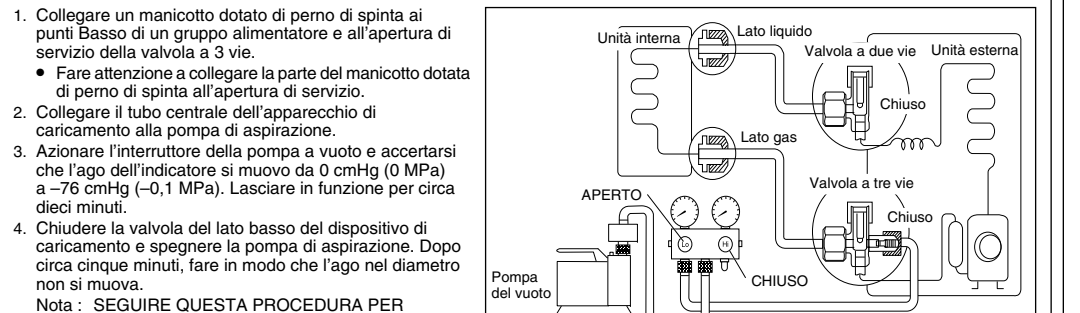
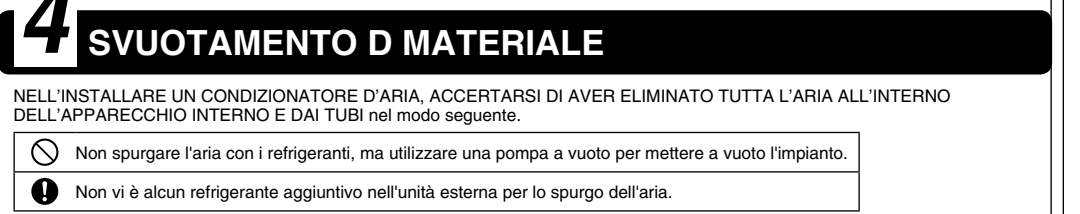
## 3 COLLEGARE I TUBI



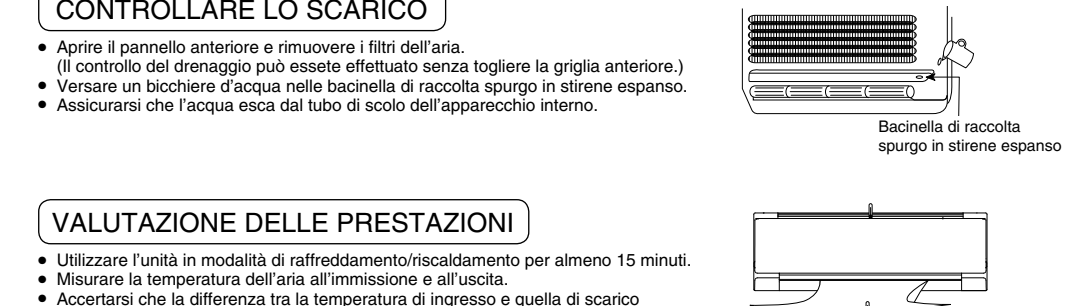
## Collegamento delle tubazioni all'esterno



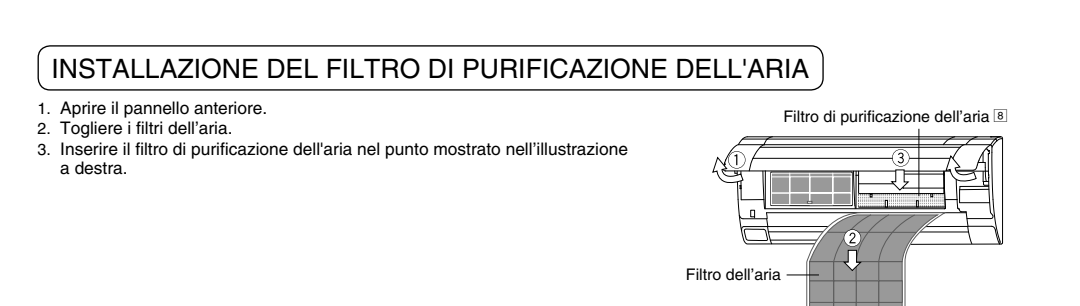
## 4 SVUOTAMENTO D MATERIALE



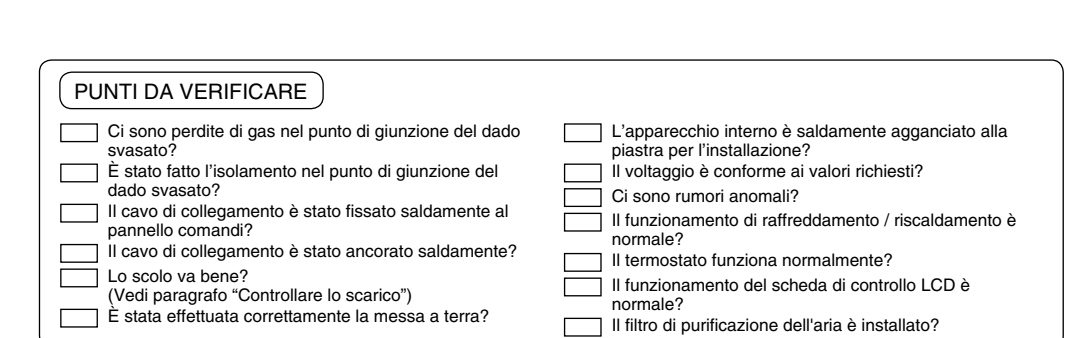
## CONTROLLARE LO SCARICO



## VALUTAZIONE DELLE PRESTAZIONI



## INSTALLAZIONE DEL FILTRO DI PURIFICAZIONE DELL'ARIA



## PUNTI DA VERIFICARE





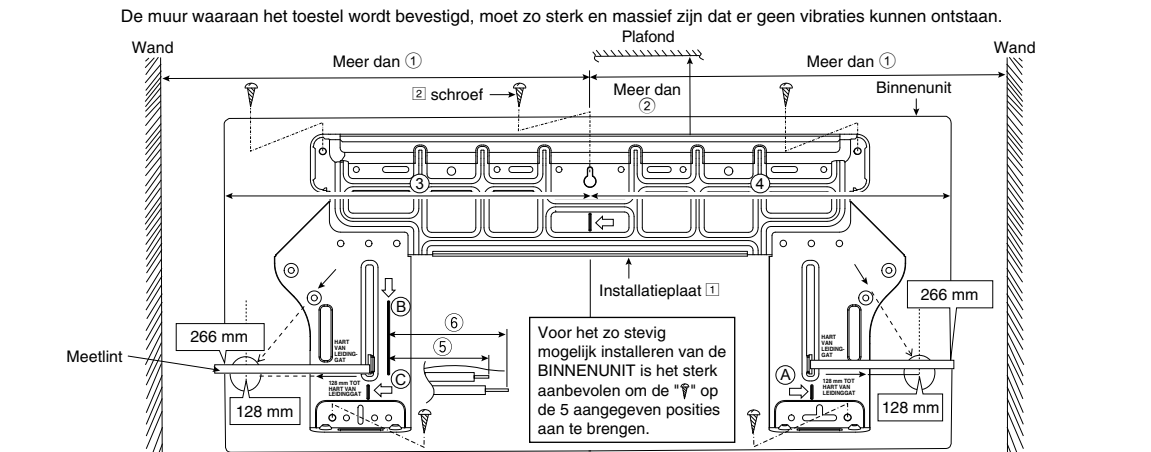


# BINNENUNIT

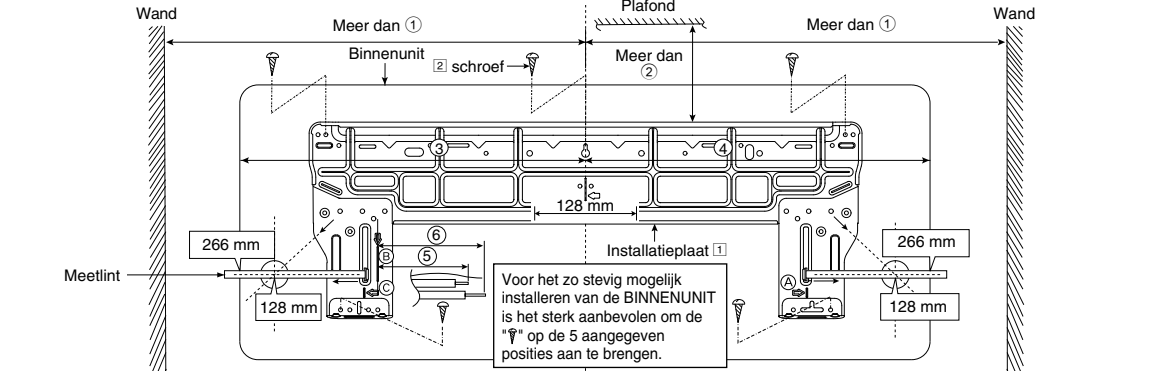
## 1 BEPAAL DE BESTE PLAATS

(Zie deel "Bepaal de beste plaats")

## 2 BEVESTIGING VAN DE INSTALLATIEPLAAT



Model	1	2	3	4	5	6
PZ25***, PZ35***	480 mm	80 mm	425 mm	425 mm	43 mm	95 mm
PZ50***	490 mm	90 mm	439 mm	432 mm	43 mm	95 mm



Model	1	2	3	4	5	6
UZ260***	590 mm	85 mm	539 mm	532 mm	230 mm	280 mm

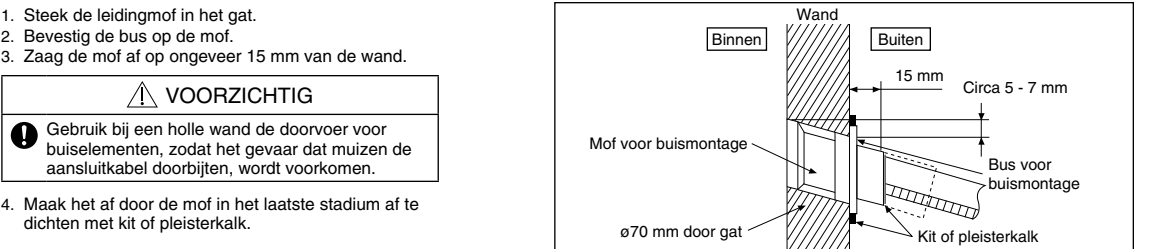
Het midden van de installatieplaat moet zich links en rechts op meer dan ① van de wand bevinden. De afstand van de rand van de installatieplaat tot het plafond moet meer dan ② zijn. Afstand vanaf het midden van de installatieplaat tot aan de linkerkant van de unit ③.

④ Voor leidingen aan de linkerkant moet de aansluiting van de vloestofleiding zich ongeveer ⑤ van deze lijn bevinden.

⑥ Voor leidingen aan de linkerkant moet de aansluiting van de gasleiding zich ongeveer ⑥ van deze lijn bevinden.

- Monteer de installatieplaat met 5 schroeven of meer tegen de muur (tenminste 5 schroeven). (Indien het toestel op een betonnen muur wordt bevestigd, dient u het gebruik van ankerbouten te overwegen.)
- Bevestig de installatieplaat steeds horizontaal. Gebruik een schietlood en een waterpas.
- Boor de afvoeroening met een ø70 mm boor.
  - Lijn uitgaande van de linker- en rechterzijde van de installatieplaat.
  - Het snijpunt van de verlengde lijn is het midden van het gat.
  - Een andere methode is een meetlint plaatsen op de positie die in de schema hierboven wordt getoond.
  - Het hart van het gat vindt u door een afstand van 128 mm uit te meten voor een gat aan de rechter- of de linkerkant.
  - Boor de opening voor de leiding aan de linker- of aan de rechterkant en de opening moet iets naar buiten aflopen.

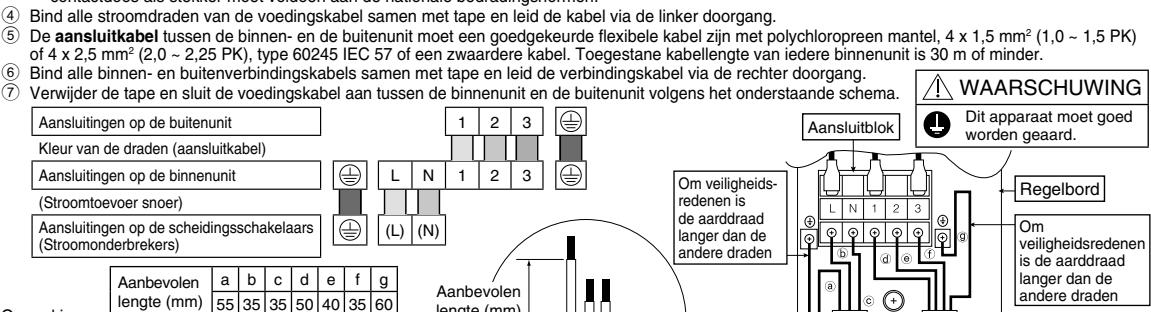
## 3 BOREN VAN EEN GAT IN DE MUUR EN PLAATSEN VAN EEN MOF VOOR DE LEIDING



## 5 SLUIT DE KABEL AAN OP DE BINNENUNIT

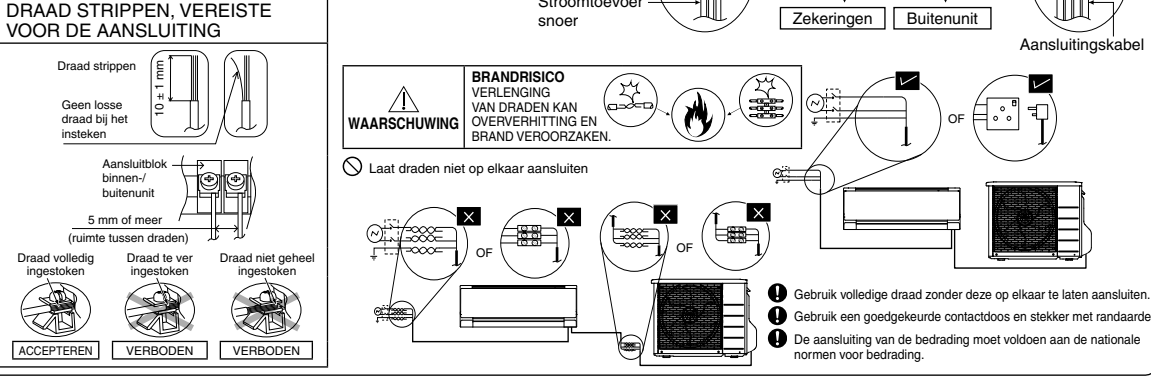
De voedingskabel, de verbindingkabel van de binnen- en de buitenunit kunnen worden aangesloten zonder het voorrooster aan de voorkant te verwijderen.

- Plaats de binnenunit op de aan de wand gemonteerde houder.
- Open het voorpaneel en het rooster door de schroef los te draaien.
- Kabelaansluiting op de stroomvoorziening via scheidingsschakelaars (Stroomonderbrekers).
- Sluit een goedgekeurde voedingskabel met polychloropreen mantel, 3 x 1,5 mm<sup>2</sup> (1,0 - 1,5 PK) of 3 x 2,5 mm<sup>2</sup> (2,0 - 2,25 PK), type 60245 IEC 57 of een zwaardere kabel aan op het aansluitblok en het andere einde van de kabel op de zekeringen (stroomonderbreker).
  - Gebruik niet één en dezelfde voedingskabel. Vervang de bedrading als de bestaande bedrading (zoals bijvoorbeeld in de muur weggevoerde bedrading) te kort is.
  - Als dit niet vermeden kan worden, moet een verlenging van de voedingskabel tussen de zekeringen en het aansluitblok van de airconditioner worden uitgevoerd met een goedgekeurde contactdoos en stekker geschikt voor 15/16A (1,0 - 1,5 PK) of 16A (2,0 - 2,25 PK). De bedrading naar zowel contactdoos als stekker moet voldoen aan de nationale bedradingnormen.
- Bind alle stroomdraden van de voedingskabel samen met tape en leid de kabel via de linker doorgang.
- De aansluitkabel tussen de binnen- en de buitenunit moet een goedgekeurde flexibele kabel zijn met polychloropreen mantel, 4 x 1,5 mm<sup>2</sup> (1,0 - 1,5 PK) of 4 x 2,5 mm<sup>2</sup> (2,0 - 2,25 PK), type 60245 IEC 57 of een zwaardere kabel. Toegestane kabel lengte van iedere binnenunit is 30 m of minder.
- Bind alle binnen- en buitenverbindingkabels samen met tape en leid de verbindingkabel via de rechter doorgang.
- Verwijder de tape en sluit de voedingskabel aan tussen de binnenunit en de buitenunit volgens het onderstaande schema.

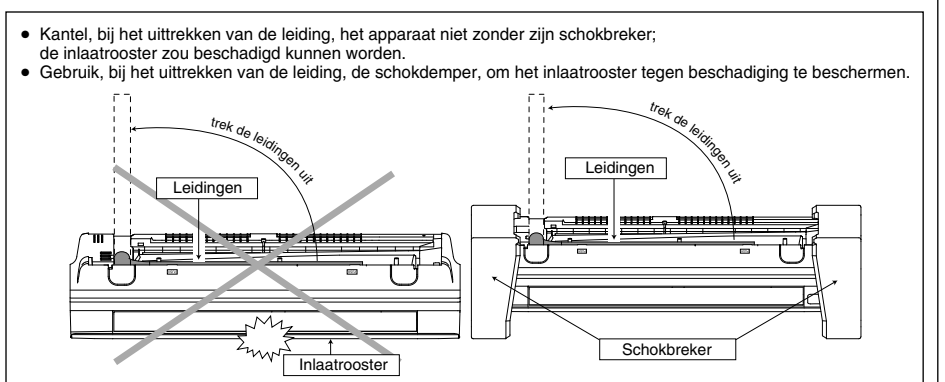


Opmerking:

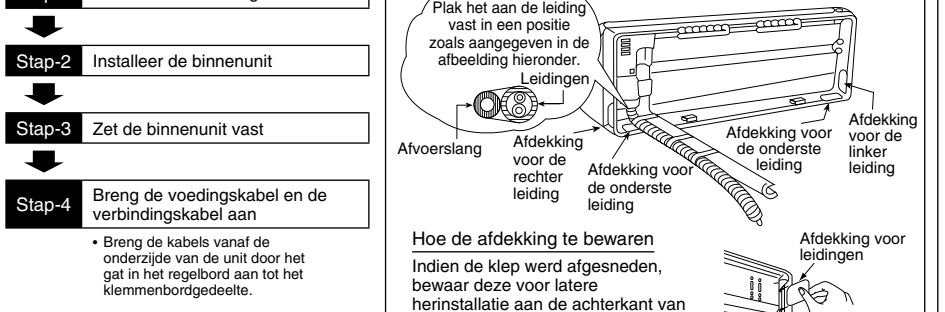
- Scheidingsschakelaars (Stroomonderbrekers) moeten een minimum contactopening van 3,0 mm hebben.
- Let er op dat de kleur van de draden van de buitenunit en de nummers van de aansluitingen overeenkomen met die van de binnenunit.
- De aarddraad moet Geel/Groen (Y/G) van kleur zijn en moet langer zijn dan de andere AC-draden, zoals is aangegeven op de afbeelding, ten bate van de elektrische veiligheid, in geval dat de draad losraakt van het ankerpunt.



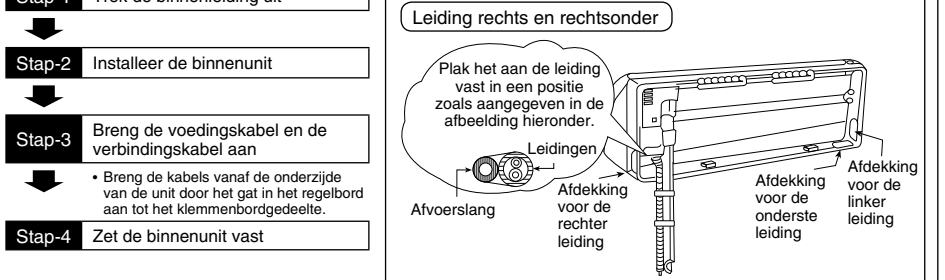
## 4 INSTALLATIE VAN DE BINNENUNIT



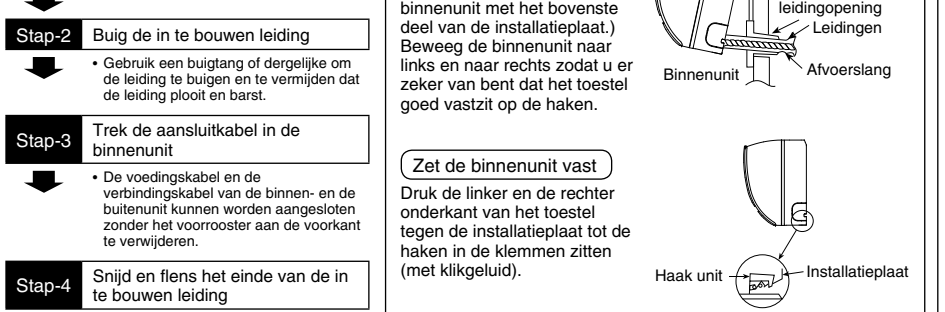
### 1. LEIDING RECHTSACHTER



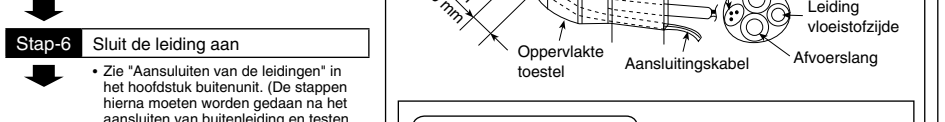
### 2. LEIDINGEN AAN DE RECHTERKANT EN RECHTSONDER



### 3. INGEBOUWDE LEIDINGEN



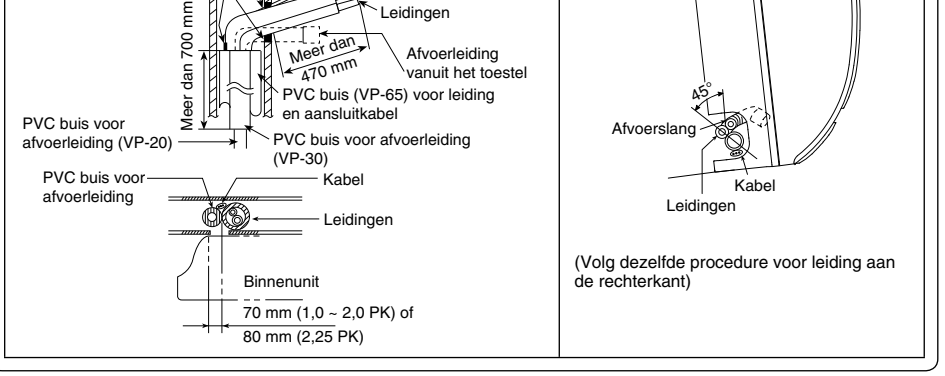
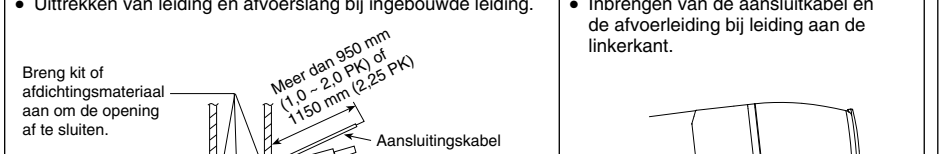
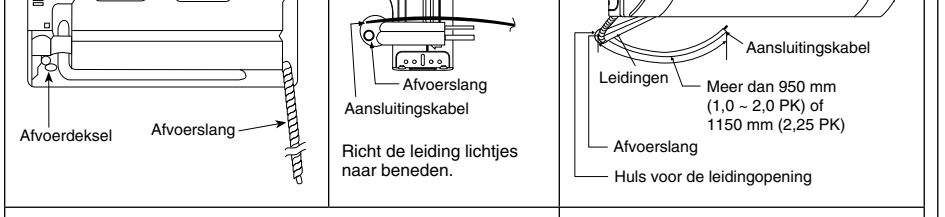
### 4. Plaats de aansluitkabel



### 5. Druk, als u het toestel wilt uitnemen, op de (PUSH)-markering onderaan het toestel en trek het wat naar u toe zodat de haken loskomen van het toestel.

### 6. Druk, als u het toestel wilt uitnemen, op de (PUSH)-markering onderaan het toestel en trek het wat naar u toe zodat de haken loskomen van het toestel.

### 7. Verwijder de tape en sluit de voedingskabel aan tussen de binnenunit en de buitenunit volgens het onderstaande schema.

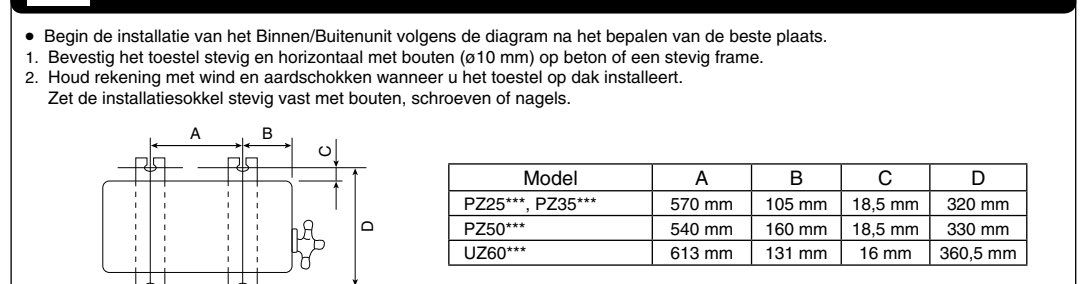


# BUITENUNIT

## 1 BEPAAL DE BESTE PLAATS

(Zie deel "Bepaal de beste plaats")

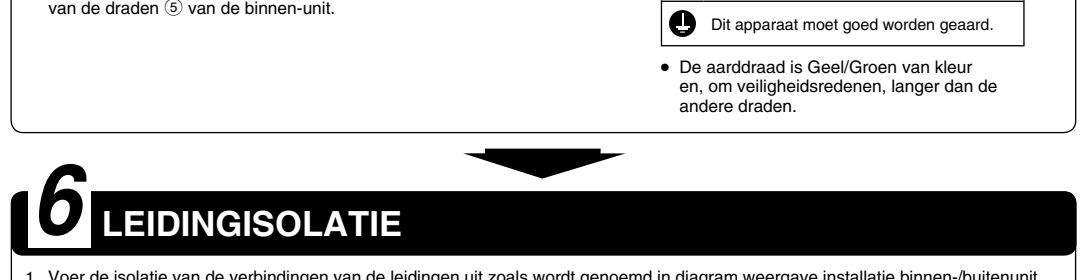
## 2 INSTALLER DE BUITENUNIT



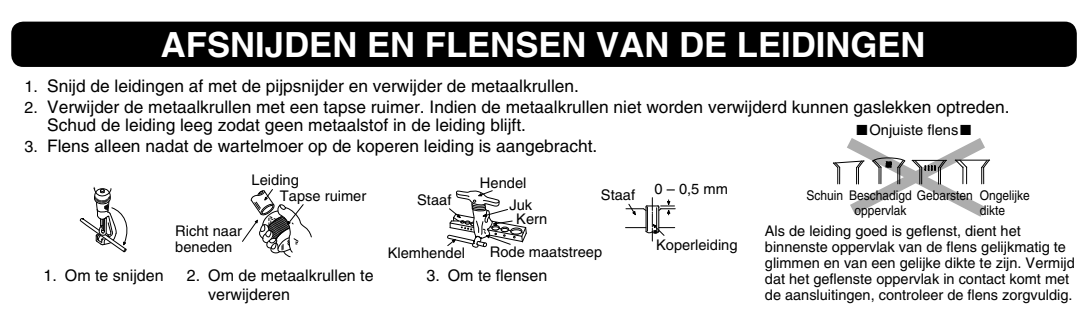
## 5 SLUIT DE KABEL AAN OP DE BUITENUNIT



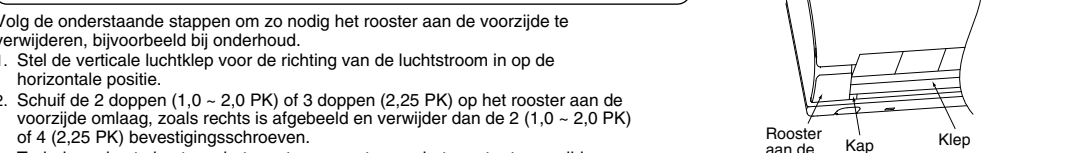
## 6 LEIDINGISOLATIE



## AFSNIJDEN EN FLENSEN VAN DE LEIDINGEN



## UITNEMEN VAN HET ROOSTER AAN DE VOORKANT

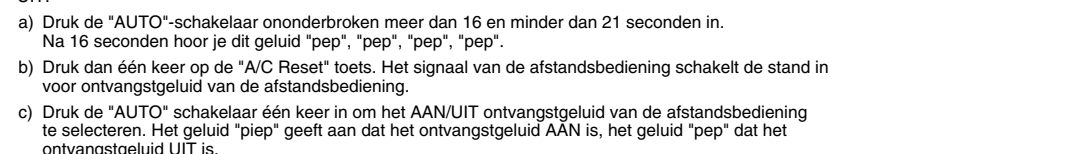
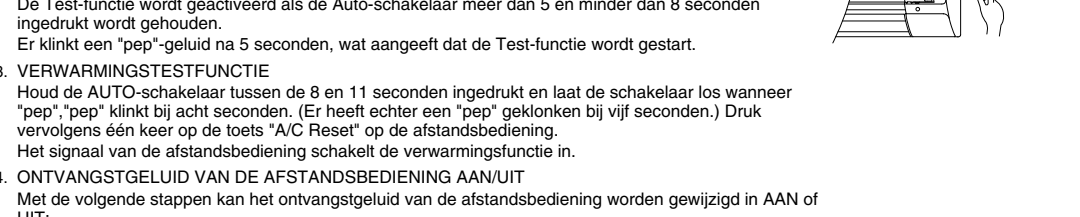


## GEbruik VAN DE AUTO-SCHAKELAAR

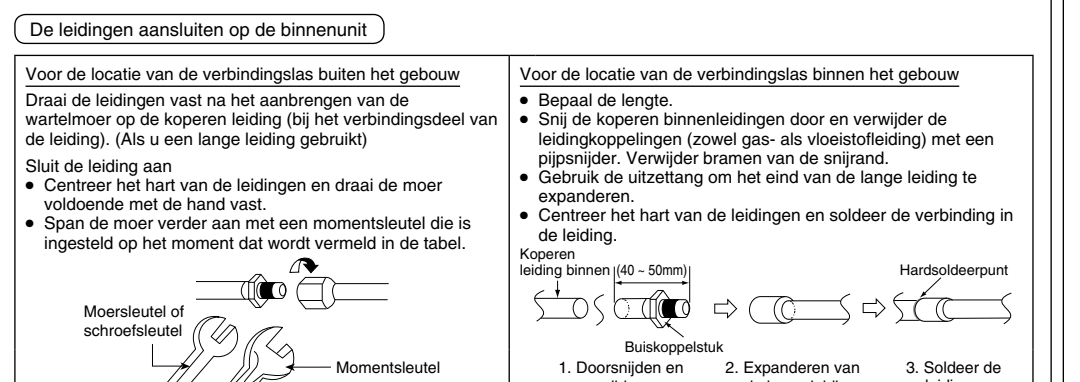
De onderstaande verrichtingen worden uitgevoerd door de "AUTO" schakelaar te drukken.

- AUTOMATISCHE STAND**  
De Auto-functie wordt onmiddellijk geactiveerd wanneer de Auto-schakelaar wordt ingedrukt en binnen 5 seconden wordt losgelaten.
- PROEFRAAIEN (VOOR LEEGPOMPEN/ONDERHOUD)**  
De Test-functie wordt geactiveerd als de Auto-schakelaar meer dan 5 en minder dan 8 seconden ingedrukt wordt gehouden. Er klinkt een "pep"-geluid na 5 seconden, wat aangeeft dat de Test-functie wordt gestart.
- VERWARMINGSTESTFUNCTIE**  
Houd de AUTO-schakelaar tussen de 8 en 11 seconden ingedrukt en laat de schakelaar los wanneer "pep" / "pep" klinkt bij acht seconden. (Er heelt echter een "pep" geklinken bij vijf seconden.) Druk vervolgens één keer op de toets "A/C Reset" of de afstandsbediening. Het signaal van de afstandsbediening schakelt de verwarmingsfunctie in.
- ONTVANGSTGELUID VAN DE AFSTANDBEDIENING AAN/UIT**  
Met de volgende stappen kan het ontvangstgeluid van de afstandsbediening worden gewijzigd in AAN of UIT:
  - Druk de "AUTO"-schakelaar ononderbroken meer dan 16 en minder dan 21 seconden in. Na 16 seconden hoor je dit geluid "pep", "pep", "pep", "pep".
  - Druk dan één keer op de "A/C Reset" toets. Het signaal van de afstandsbediening schakelt de stand in voor ontvangstgeluid van de afstandsbediening.
  - Druk de "AUTO" schakelaar één keer in om het AAN/UIT ontvangstgeluid van de afstandsbediening te selecteren. Het geluid "piep" geeft aan dat het ontvangstgeluid AAN is, het geluid "pep" dat het ontvangstgeluid UIT is.

## AFTAPPEN VAN WATER UIT DE BUITENUNIT



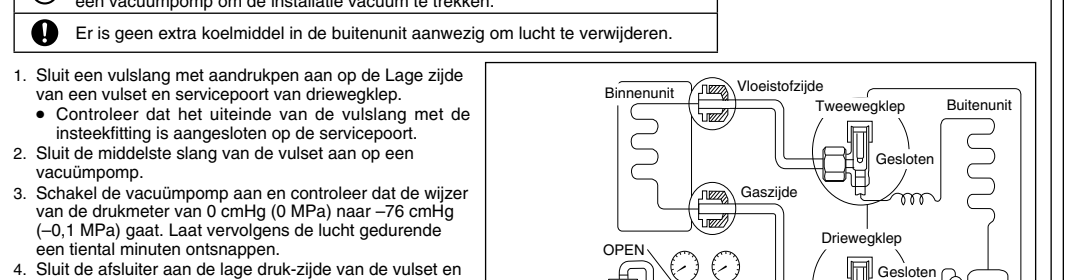
## 3 AANSLUITEN VAN DE LEIDINGEN



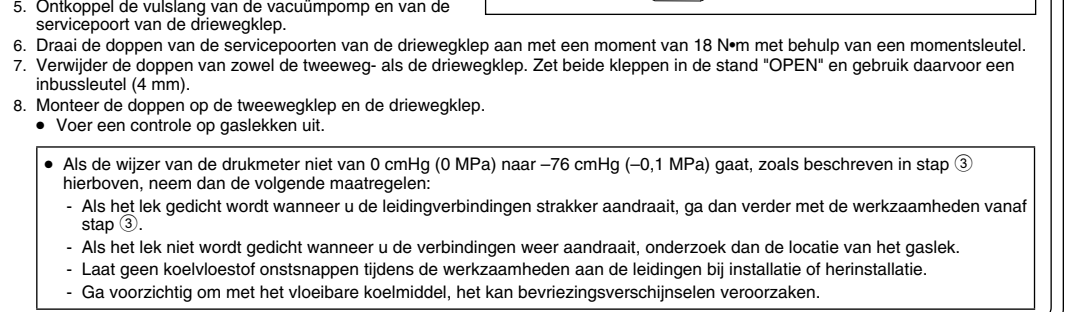
## 4 DE APPARATUUR VACUÛM TREKKEN



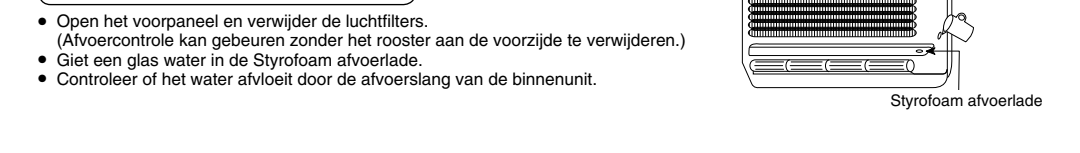
## CONTROLEER DE AFVOER



## CONTROLE VAN DE WERKING VAN HET TOESTEL



## INSTALLATIE VAN HET LUCHTREINIGINGSFILTER



## CONTROLEPUNTEN

Is er een gaslek aan de geflensde verbindingen?  
Is de warmteïsolatie uitgevoerd aan de geflensde verbindingen?  
Is de aansluitkabel stevig op het aansluitblok bevestigd?  
Is de aansluitkabel stevig vastgeklemd?  
Is de afvoer in orde?  
Is de afvoer van de aarddraad goed uitgevoerd?

Is het binnenunit stevig vastgezet op de installatieplaat?  
Komt het voltage van de stroomvoorziening overeen met de nominale waarde?  
Klinken er abnormale geluiden?  
Werket het koelen/verwarmen normaal?  
Werket de thermostaat normaal?  
Is de LCD functie van de afstandsbediening normaal?  
Is het luchtreinigingsfilter geïnstalleerd?









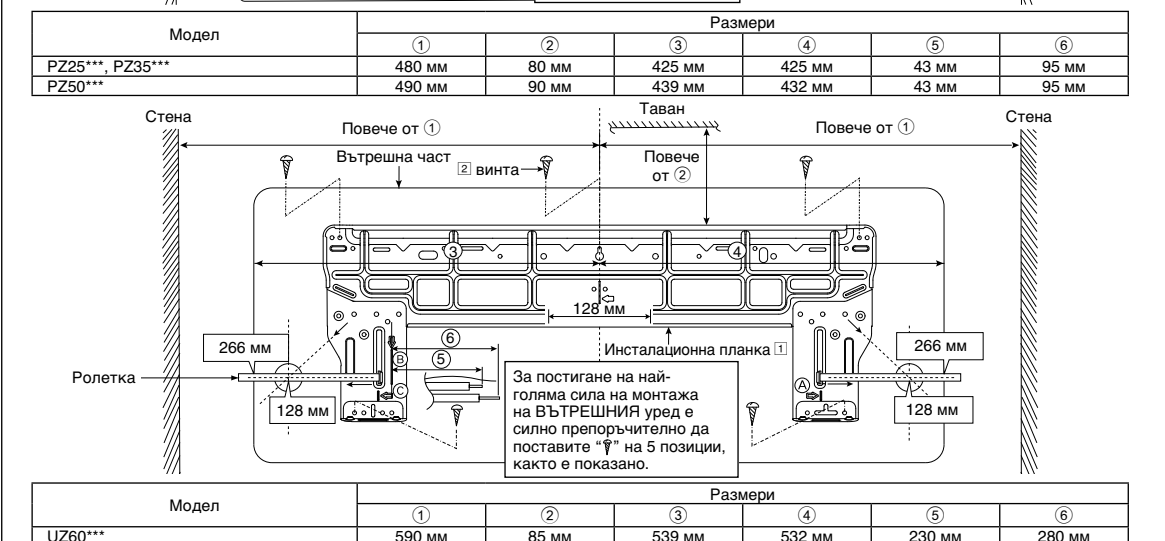
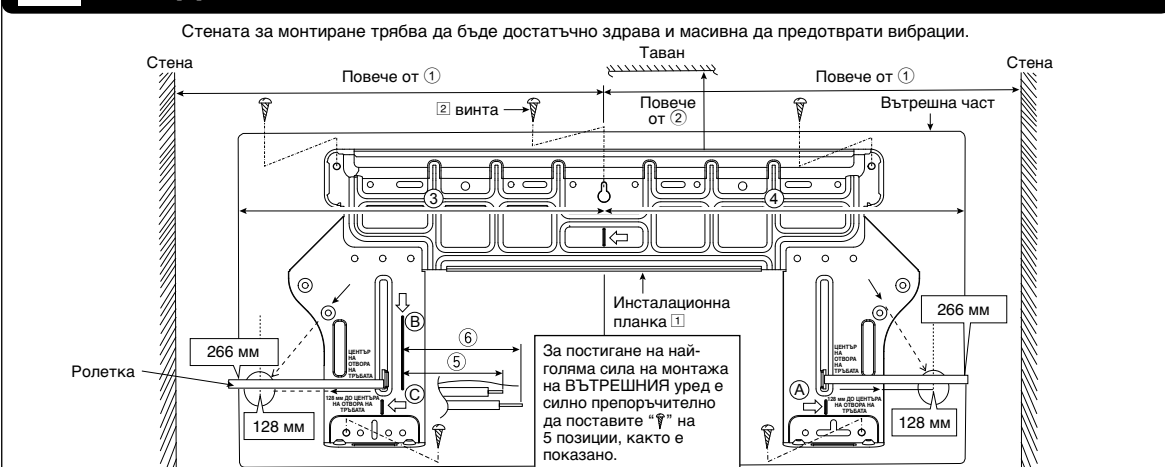


# ВЪТРЕШНА ЧАСТ

## 1 ИЗБЕРЕТЕ НАЙ-ПОДХОДЯЩОТО МЯСТО

(Виж раздел "Изберете най-подходящото място")

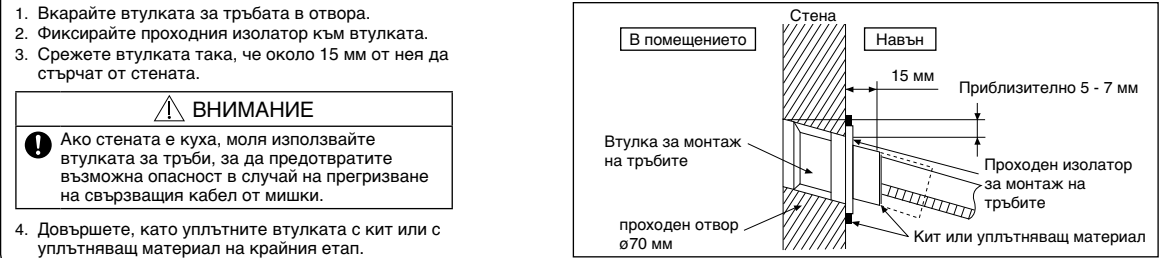
## 2 КАК ДА ЗАКРЕПИТЕ МОНТАЖНАТА ПЛАНКА



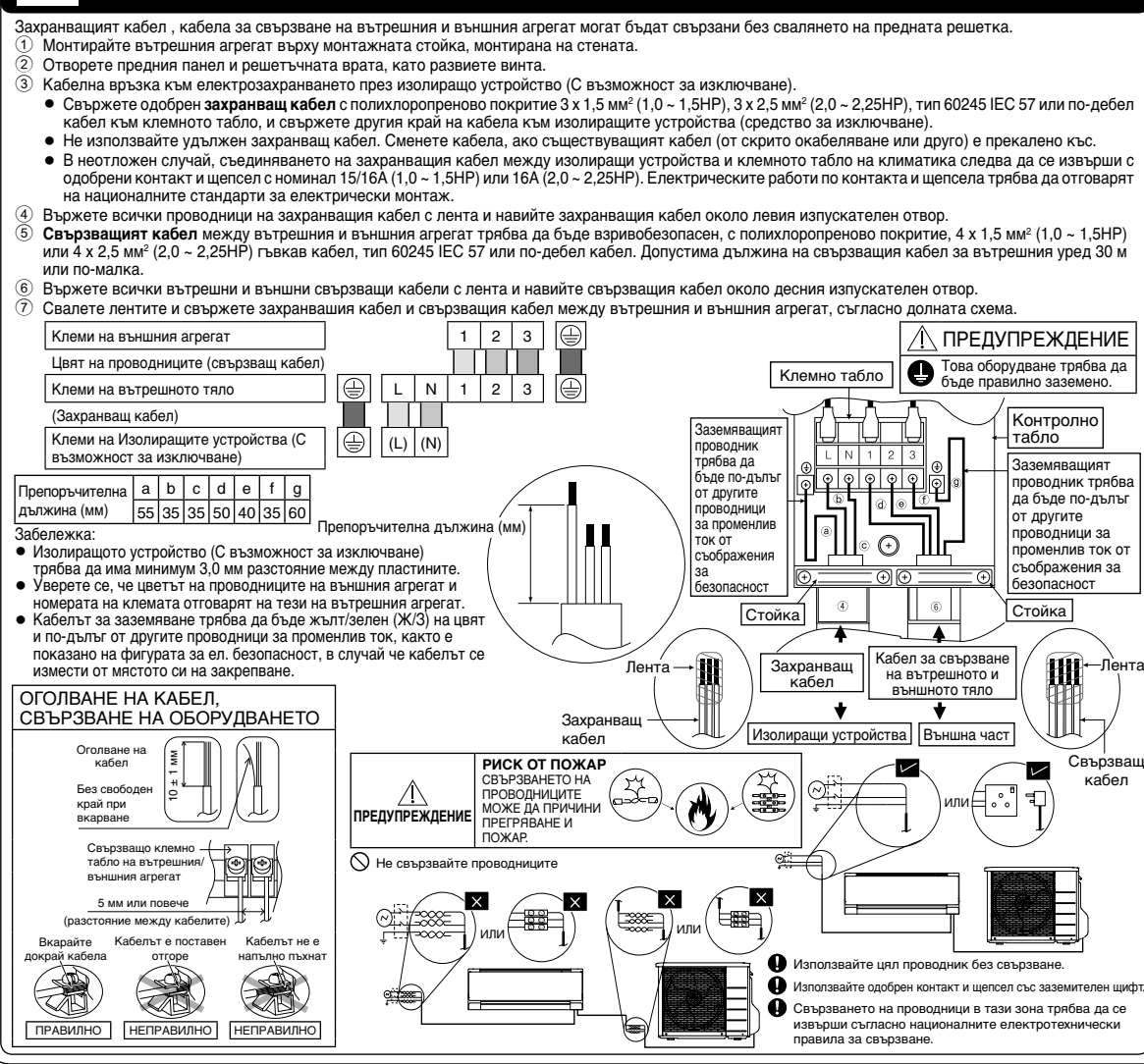
Центърът на инсталационна планка трябва да бъде на повече от 1) вдясно и вляво от стената. Разстоянието между ръба на инсталационна планка и тавана трябва да бъде над 2). Разстоянието между центъра на инсталационна планка и лявата страна на агрегата е 3). При тръби отляво връзката на тръбите за газ трябва да бъде на около 5) от тази линия. При тръби отляво връзката на тръбите за газ трябва да бъде на около 6) от тази линия.

- Монтирайте монтажната планка на стената с 5 или повече винта (поне 5 винта). (Ако монтирате агрегата на бетонна стена, помислете дали да не използвате анкери болтове.)
- Винаги монтирайте монтажната планка в хоризонтално положение, като подравнявате маркираната линия по конец с помощта на нивелир.
- Пробиете отвор за тръбите в планката със сверло с Ø70 mm.
- Подравнете спрерад лявата и дясна страна на монтажната планка. Точката на пресичане на продължената линия е центърът на отвора. Друг метод е чрез поставяне на измервателна лента, както е показано на схемата по-долу. Центърът на отвора се определя чрез измерване на разстоянието, а именно 128 mm, съответно за лявия и десния отвор.
- Пробиете отвора за тръбите или отдясно, или отляво, като отворот трябва да бъде леко наклонен навън.

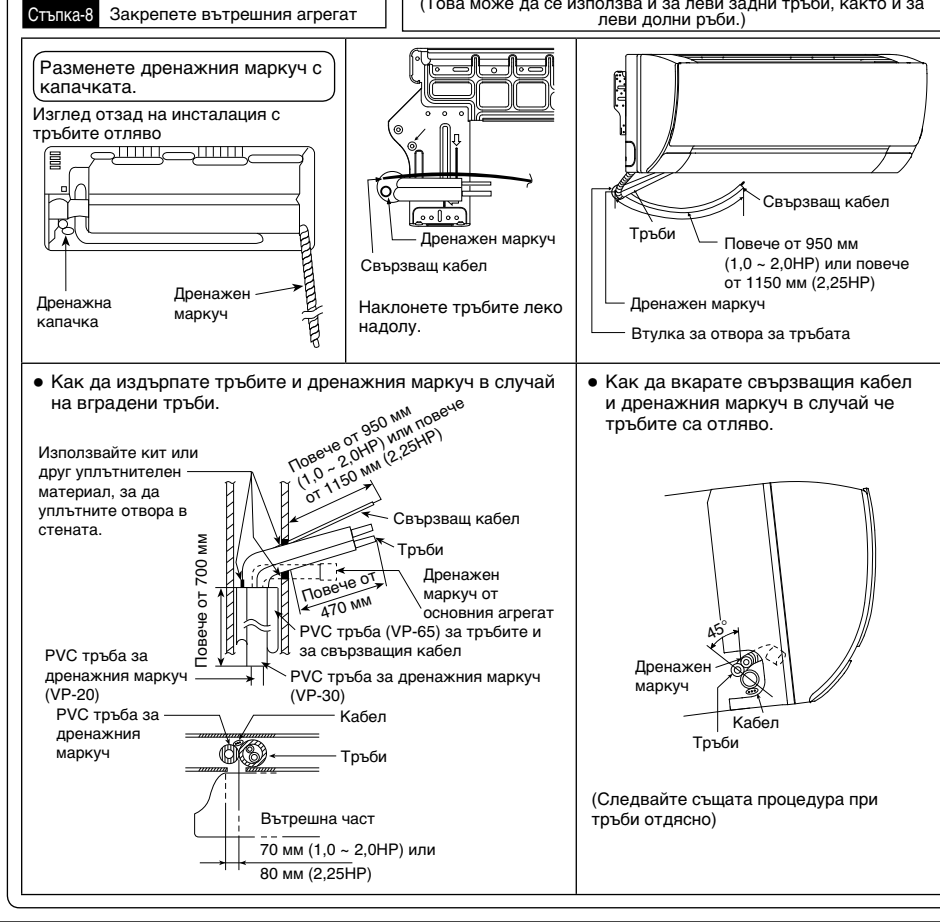
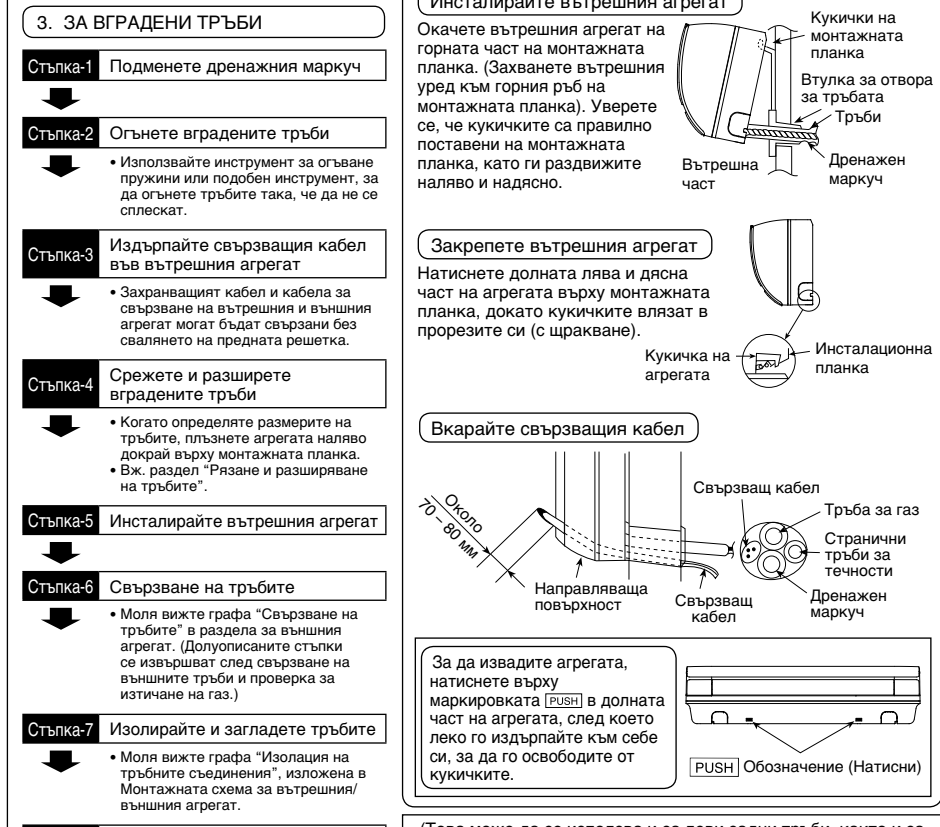
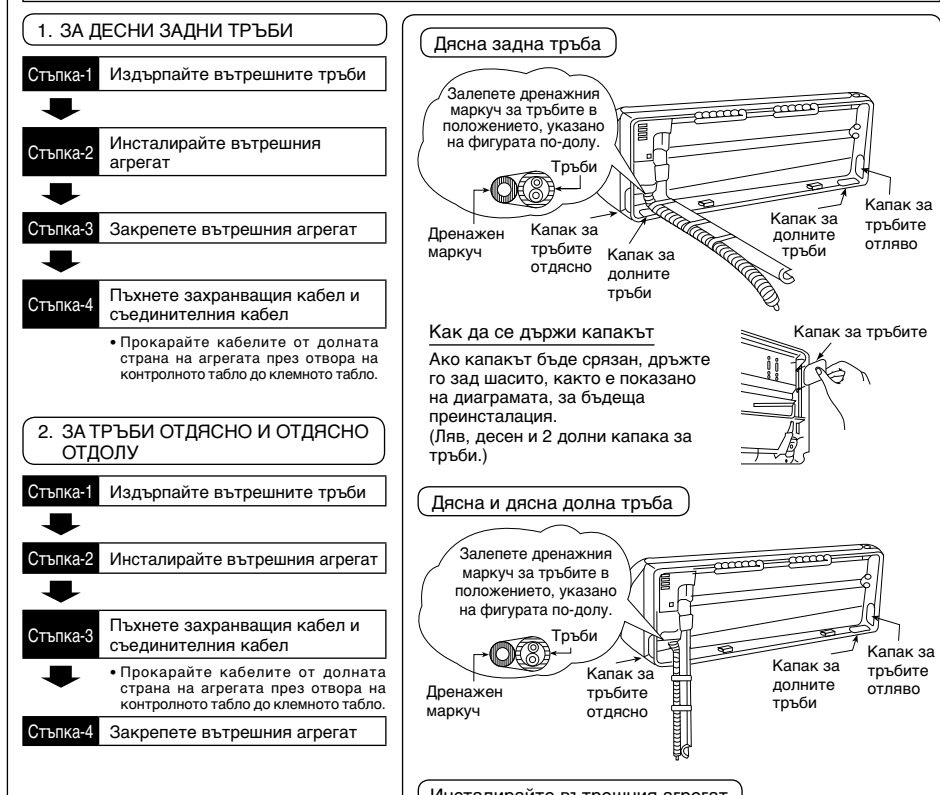
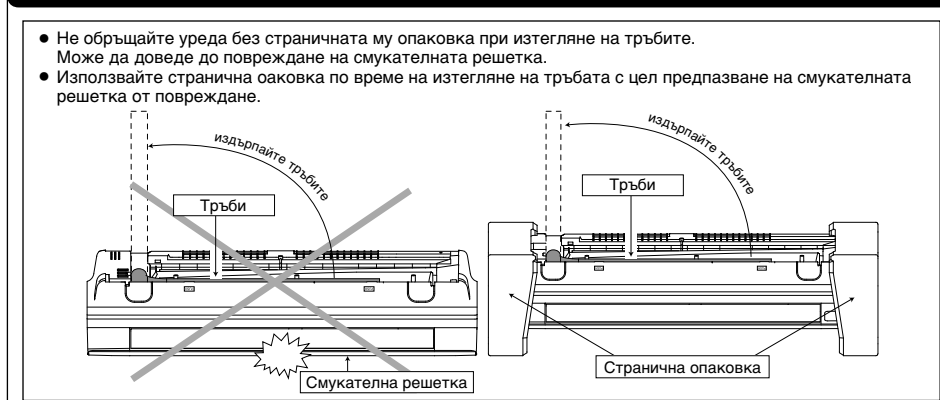
## 3 ПРОБИВАНЕ НА ОТВОР В СТЕНА И ИНСТАЛИРАНЕ НА ВТУЛКА В ТРЪБОПРОВОДА



## 5 СВЪРЖЕТЕ КАБЕЛА КЪМ ВЪТРЕШНИЯ АГРЕГАТ



## 4 МОНТАЖ НА ВЪТРЕШНИЯ УРЕД

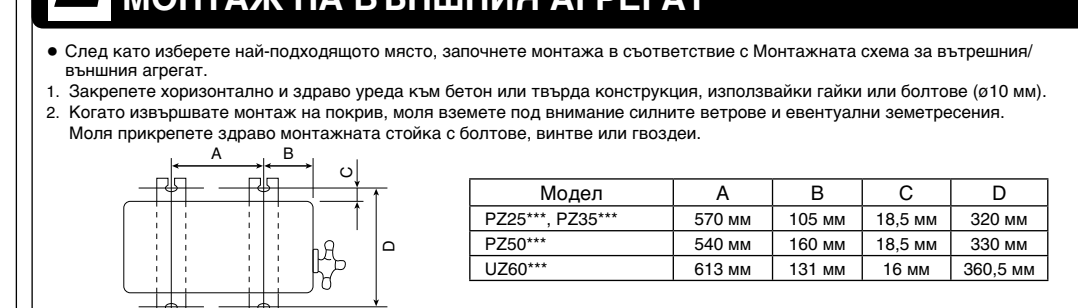


# ВЪНШНА ЧАСТ

## 1 ИЗБЕРЕТЕ НАЙ-ПОДХОДЯЩОТО МЯСТО

(Виж раздел "Изберете най-подходящото място")

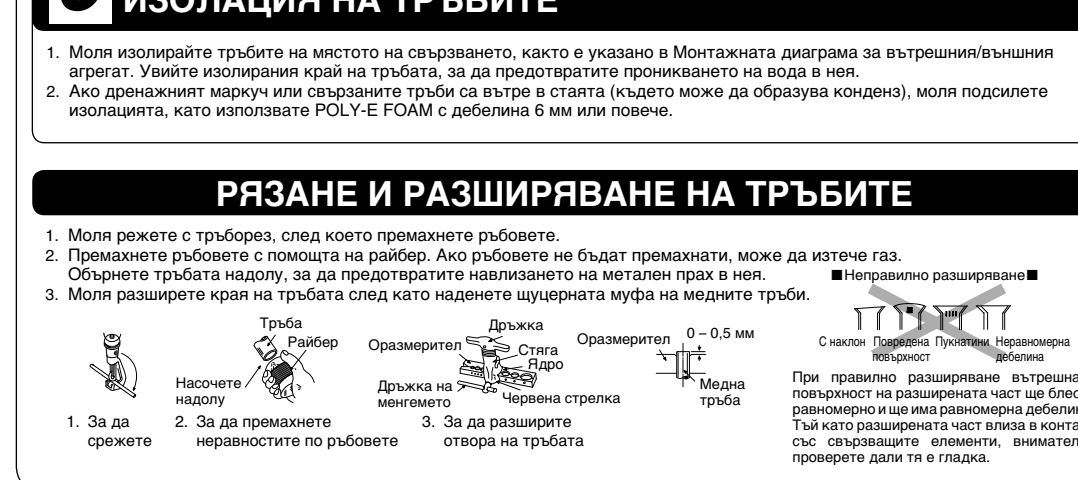
## 2 МОНТАЖ НА ВЪНШНИЯ АГРЕГАТ



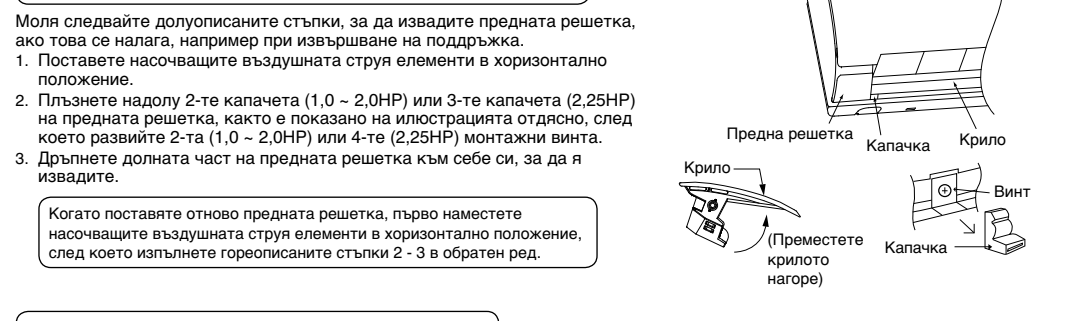
## 5 СВЪРЖЕТЕ КАБЕЛА КЪМ ВЪНШНИЯ АГРЕГАТ



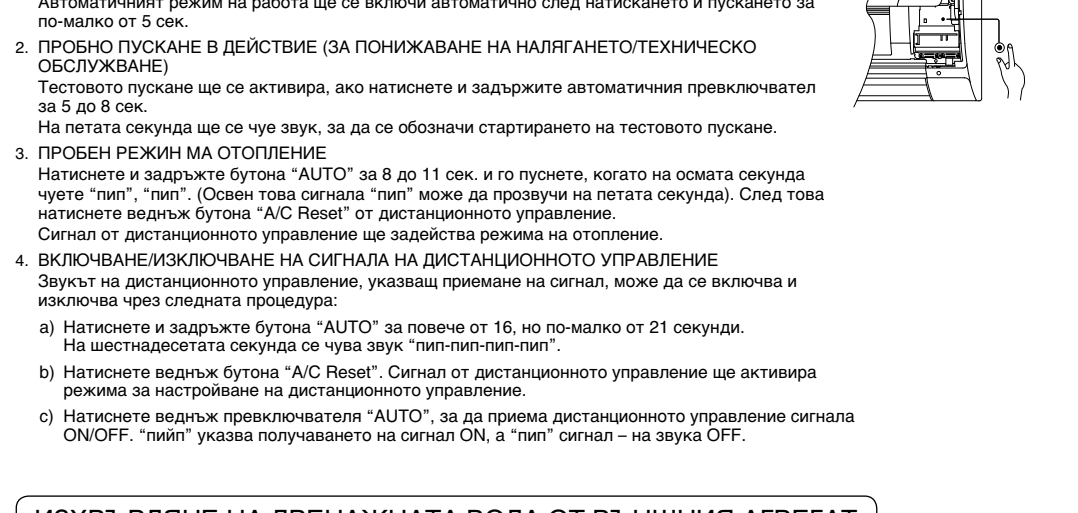
## 6 ИЗОЛАЦИЯ НА ТРЪБИТЕ



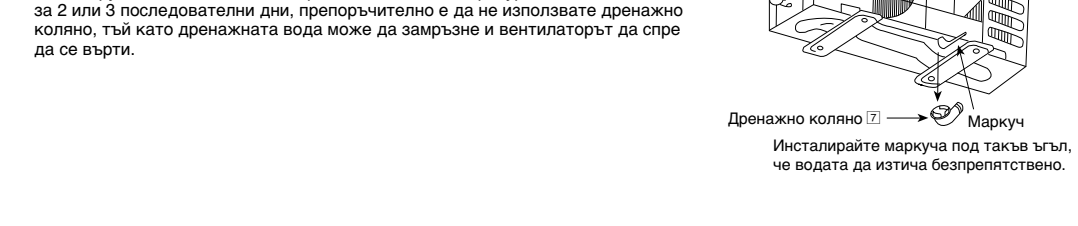
## КАК ДА ИЗВАДИТЕ ПРЕДНАТА РЕШЕТКА



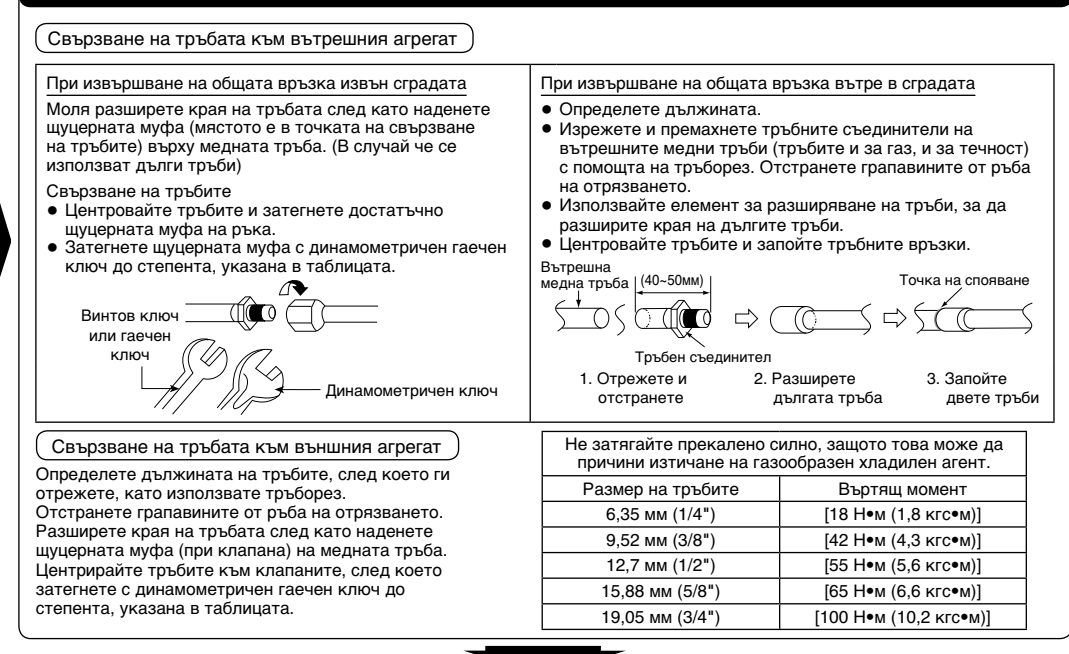
## РАБОТА В АВТОМАТИЧЕН РЕЖИМ



## ИЗВЪРЛЯНЕ НА ДРЕНАЖНАТА ВОДА ОТ ВЪНШНИЯ АГРЕГАТ



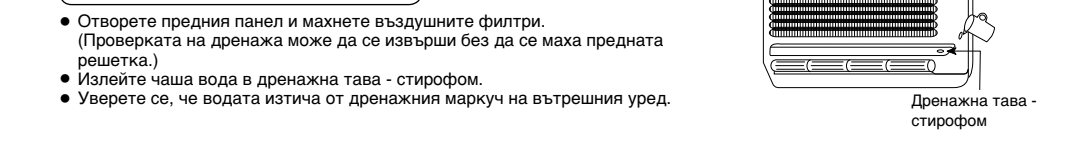
## 3 СВЪРЗВАНЕ НА ТРЪБИТЕ



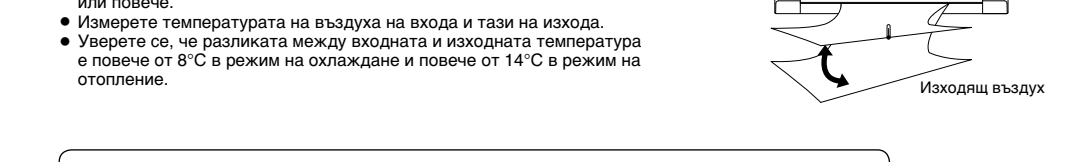
## 4 ОБЕЗВЪЗДУШАВАНЕ НА ОБОРУДВАНЕТО



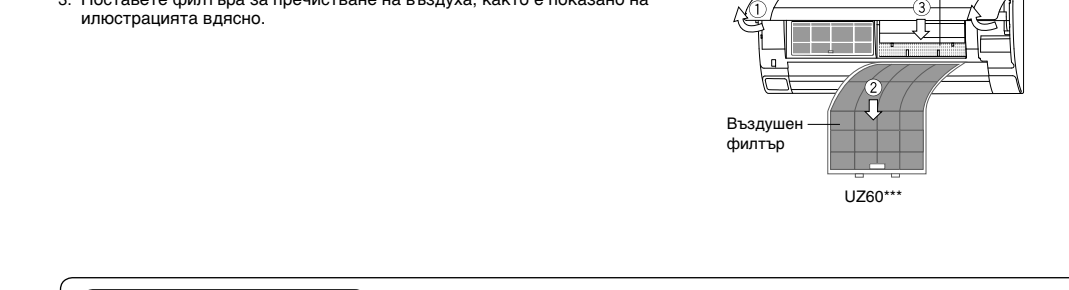
## ПРОВЕРКА НА ДРЕНАЖА



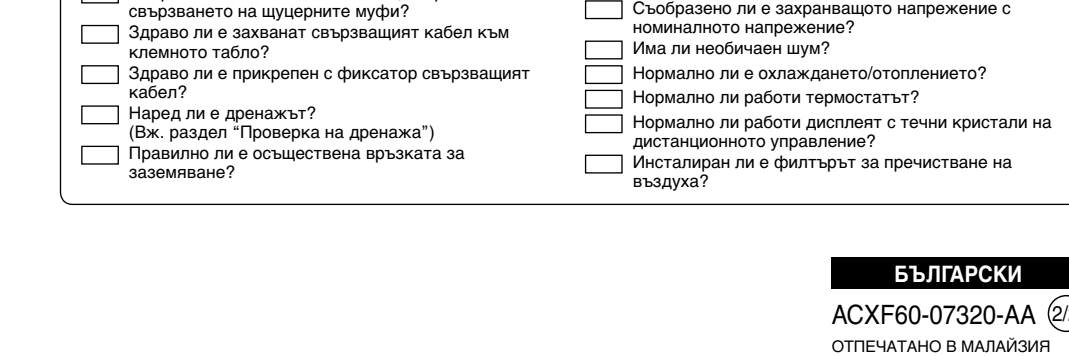
## ОЦЕНКА НА РАБОТАТА



## ИНСТАЛИРАНЕ НА ФИЛТЪР ЗА ПРЕЧИСТВАНЕ НА ВЪЗДУХА



## ПРОВЕРЕТЕ СЛЕДНОТО





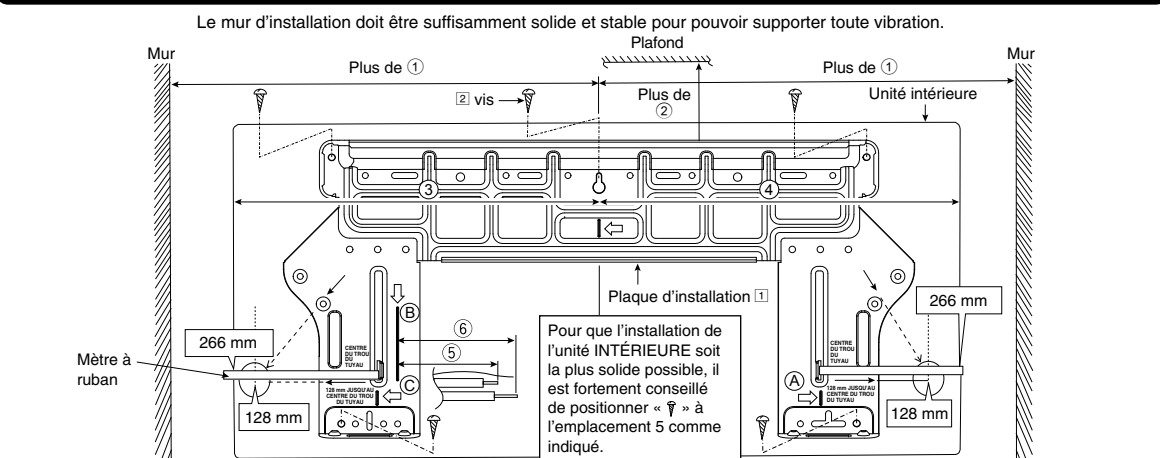


# UNITÉ INTÉRIEURE

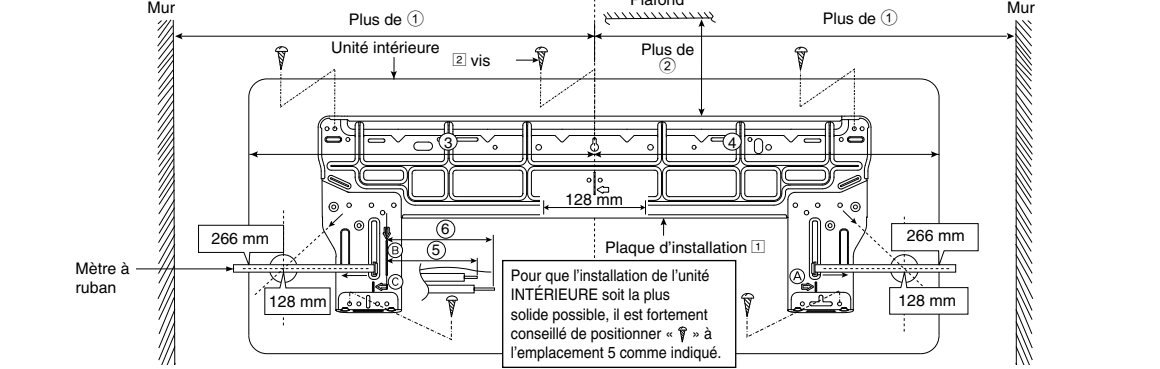
## 1 CHOIX DE L'EMPLACEMENT

(Cl. chapitre « Choix de l'emplacement »)

## 2 MONTAGE DE LA PLAQUE D'INSTALLATION



Modèle	Dimension					
	①	②	③	④	⑤	⑥
PZ25***, PZ35***	480 mm	80 mm	425 mm	425 mm	43 mm	95 mm
PZ50***	490 mm	90 mm	439 mm	432 mm	43 mm	95 mm



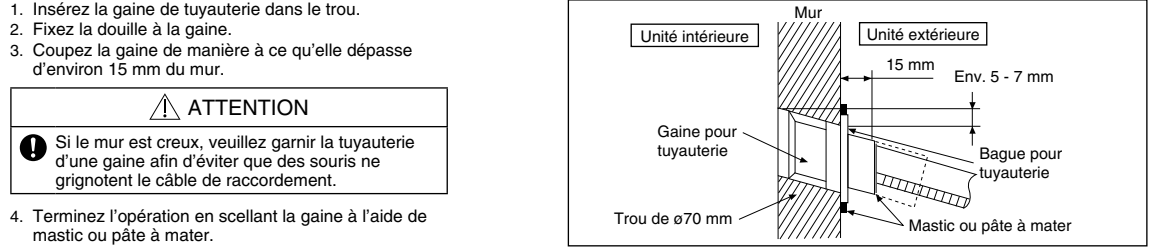
Modèle	Dimension					
	①	②	③	④	⑤	⑥
UZ60***	590 mm	85 mm	539 mm	532 mm	230 mm	280 mm

Le centre de la plaque d'installation doit se trouver à plus de ① de la gauche et de la droite du mur. La distance entre le bord de la plaque d'installation et le plafond doit être supérieure à ②. La distance entre le centre de la plaque d'installation et le bord gauche de l'unité est de ③. La distance entre le centre de la plaque d'installation et le bord droit de l'unité est de ④.

⑤ : Pour la conduite gauche, le raccordement du liquide doit se trouver à ⑤ environ de cette ligne. ⑥ : Pour la conduite gauche, le raccordement du gaz doit se trouver à ⑥ environ de cette ligne.

- Fixez la plaque d'installation au mur à l'aide des 5 vis ou plus (au moins 5 vis). (Si vous voulez installer l'unité sur un mur en béton, utilisez des boulons-agrafe.)
- Veillez toujours fixer la plaque d'installation à l'horizontale en alignant la ligne verticale de référence et le fil et en utilisant un niveau.
- Percer le trou pour le raccordement de tuyauterie à l'aide d'un foret hélicoïdal à traçer de ø70 mm.
- Alignez en fonction de côté gauche et de côté droit de la plaque d'installation. Le point de rencontre de la ligne d'extension est le centre de ce trou. Une autre méthode consiste à utiliser un mètre à ruban comme indiqué dans le schéma ci-dessus. Le centre du trou est obtenu en mesurant la distance, à savoir 128 mm, pour le trou de droite et le trou de gauche respectivement.
- Percer le trou pour le raccordement de tuyauterie soit à droite, soit à gauche en veillant à ce qu'il soit légèrement en biais vers le côté extérieur.

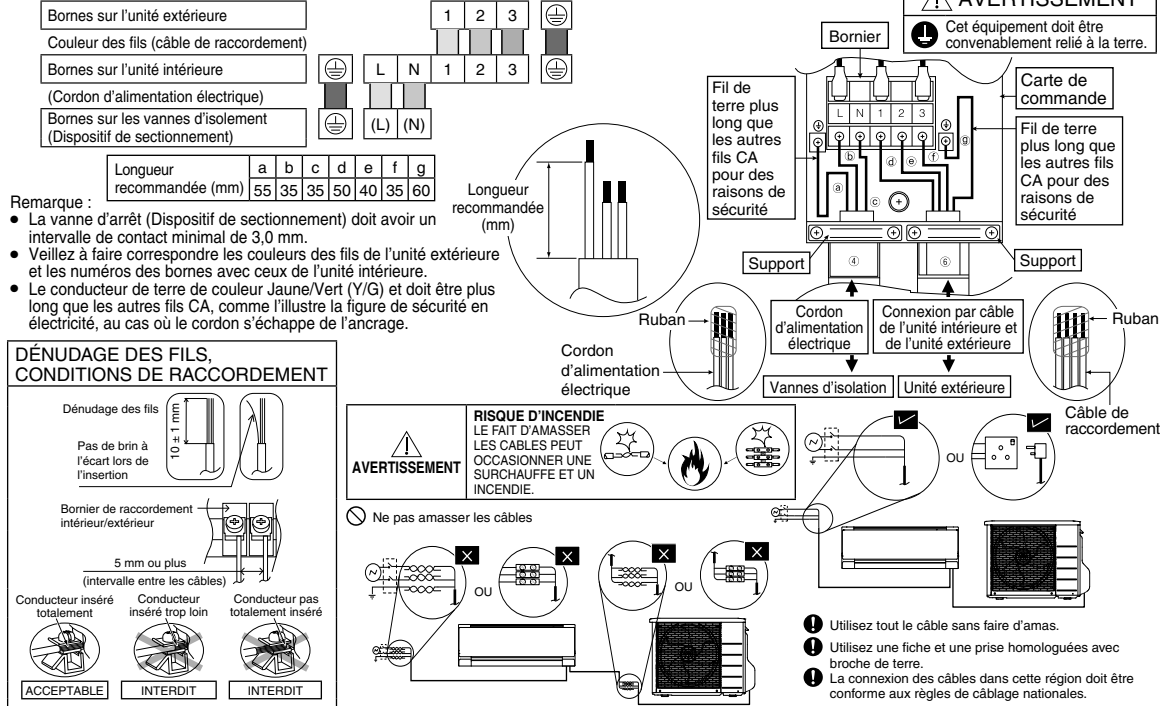
## 3 PERÇAGE D'UN TROU DANS LE MUR ET INSTALLATION D'UNE GAINÉ DE TUYAUTÉRIE



## 5 RACCORDEMENT DU CÂBLE À L'UNITÉ INTÉRIEURE

Le cordon d'alimentation électrique et le câble de raccordement de l'unité extérieure peuvent être raccordés sans retirer la grille frontale.

- Installez l'unité intérieure sur le support d'installation monté sur le mur.
- Ouvrez le panneau avant et la porte de la grille en desserrant la vis.
- Raccordement du câble à l'alimentation par vanne d'isolement (Dispositif de sectionnement).
- Connectez le cordon d'alimentation à une gaine de polychloroprène approuvée 3 x 1,5 mm<sup>2</sup> (1,0 - 1,5HP), 3 x 2,5 mm<sup>2</sup> (2,0 - 2,25HP) classification 60245 CEI 57 ou un câble de calibre supérieur au bornier et raccordez l'autre extrémité du câble à un dispositif d'isolement (Dispositif de sectionnement).
- Utilisez pas de cordon d'alimentation électrique équipé d'une rallonge. Remplacez le fil si le fil existant (du câblage dissimulé, ou autre) est trop court.
- Si c'est indéviable, il est possible d'ajouter une rallonge au cordon d'alimentation électrique entre les vanne d'isolement et le bornier du climatiseur en utilisant une prise et une fiche homologuées de 15/16 A (1,0 - 1,5HP) ou 16 A (2,0 - 2,25HP). Les travaux de câblage de la prise et de la fiche doivent respecter les normes de câblage nationales.
- Conduisez tous les fils conducteurs du cordon d'alimentation électrique avec du ruban adhésif et dirigez le cordon d'alimentation électrique à travers l'échappement de gauche.
- Le câble raccordant l'unité intérieure à l'unité extérieure doit être en fil souple sous gaine 4 x 1,5 mm<sup>2</sup> (1,0 - 1,5HP) ou 4 x 2,5 mm<sup>2</sup> (2,0 - 2,5HP) en polychloroprène agréé, désignation 60245 CEI 57 ou plus épai. La longueur admissible du câble de raccordement de chaque unité intérieure doit être de 30 m ou moins.
- Reliez tous les câbles de raccordement intérieurs et extérieurs avec du ruban adhésif et dirigez le groupe de câbles de raccordement à travers l'échappement de droite.
- Retirez les rubans adhésifs et raccordez le cordon d'alimentation électrique et le câble de raccordement entre l'unité intérieure et l'unité extérieure conformément au schéma ci-dessous.



AVERTISSEMENT : Cet équipement doit être convenablement relié à la terre.

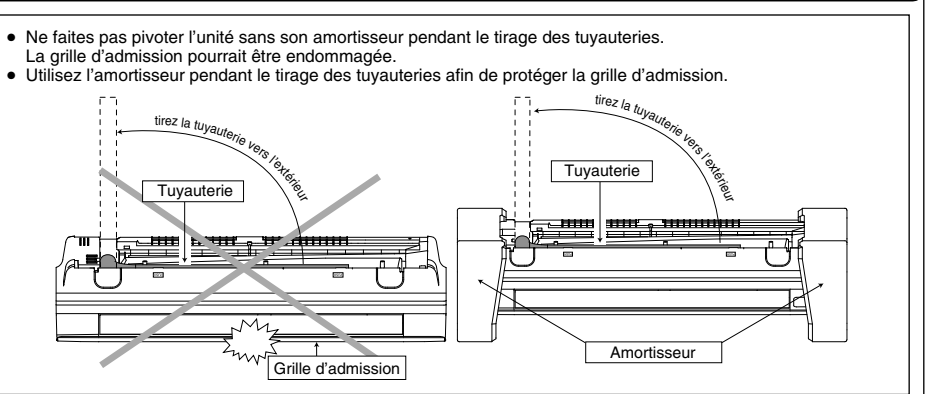
Ne pas amasser les câbles.

Utilisez tout le câble sans faire d'amas.

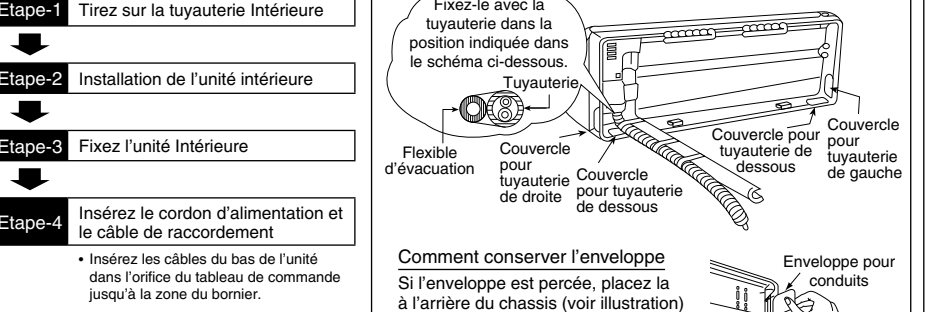
Utilisez une fiche et une prise homologuées avec broche de terre.

La connexion des câbles dans cette région doit être conforme aux règles de câblage nationales.

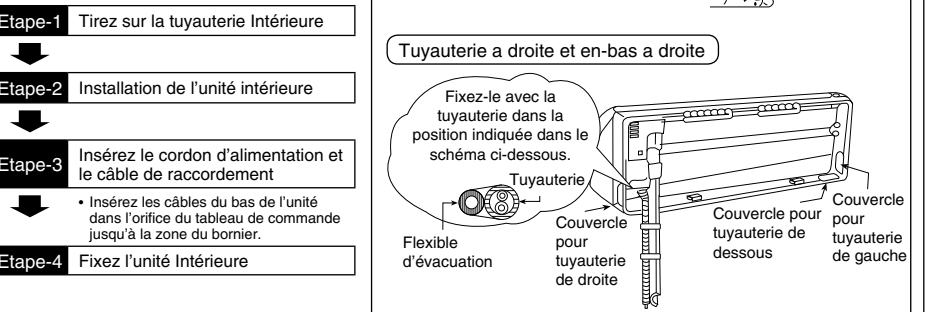
## 4 INSTALLATION DE L'UNITÉ INTÉRIEURE



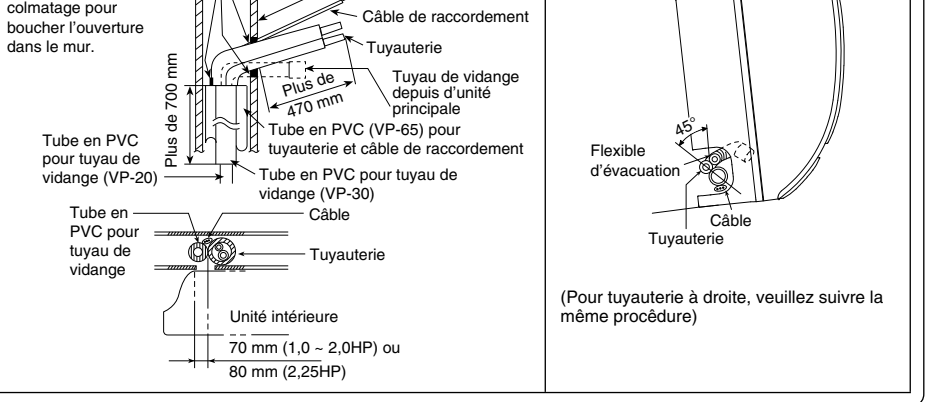
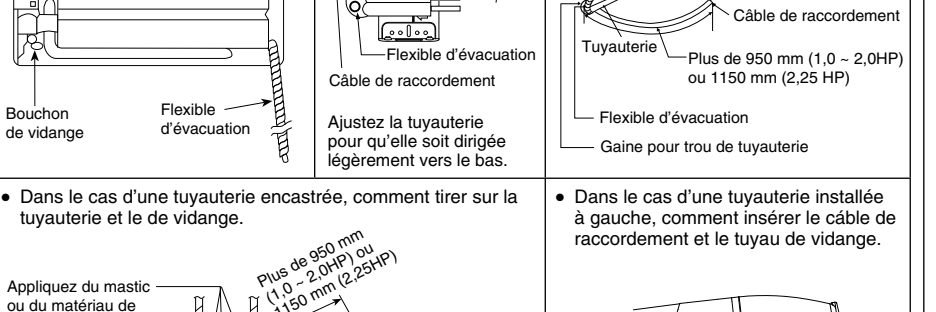
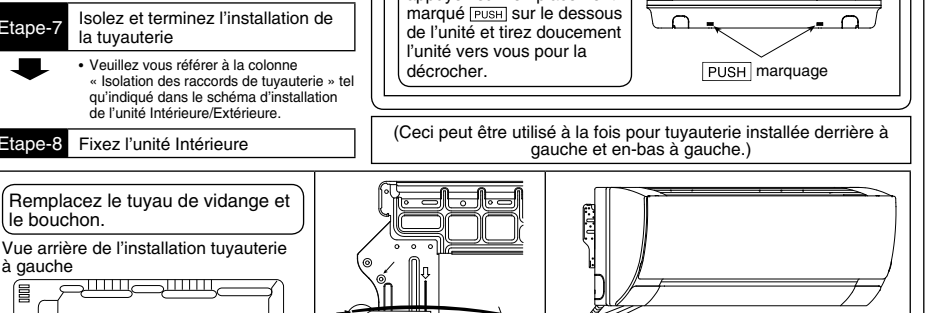
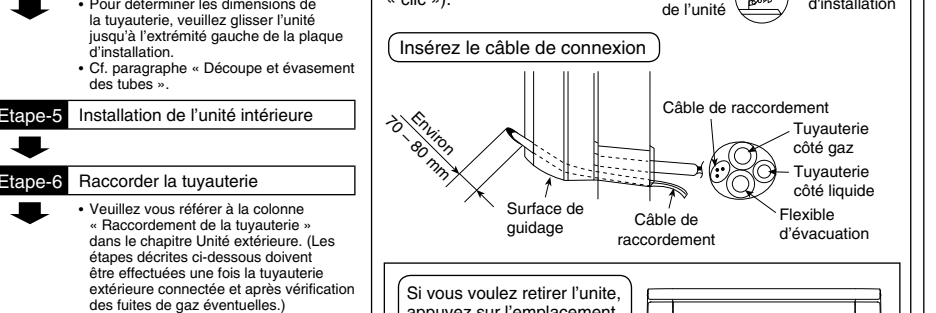
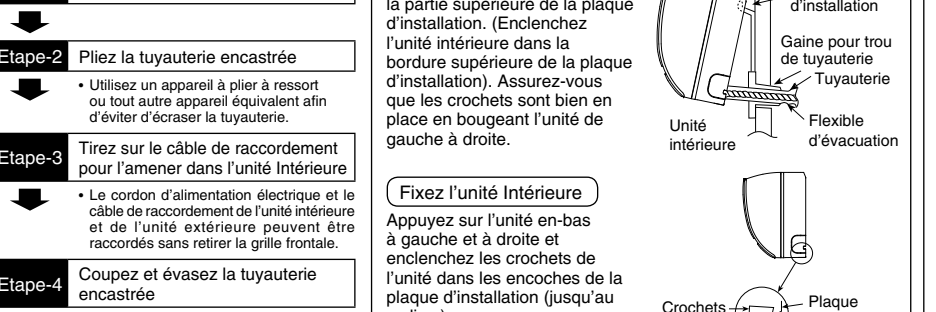
### 1. POUR LA TUYAUTÉRIE ARRIÈRE DE DROITE



### 2. POUR LA TUYAUTÉRIE À DROITE ET EN-BAS À DROITE



### 3. POUR LA TUYAUTÉRIE ENCASTÉE

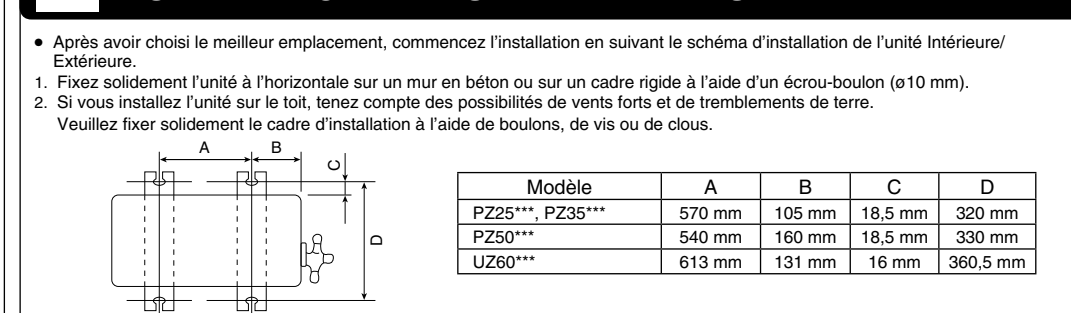


# UNITÉ EXTÉRIEURE

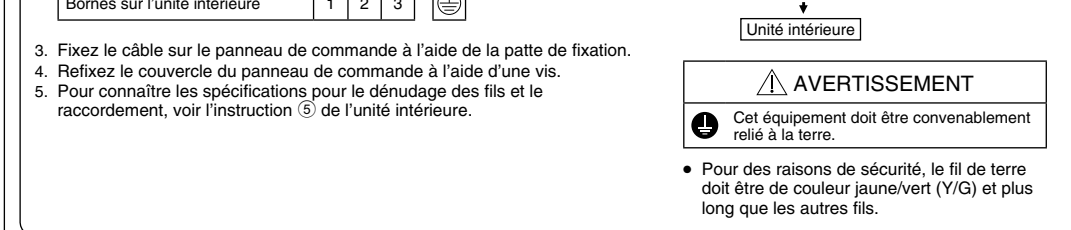
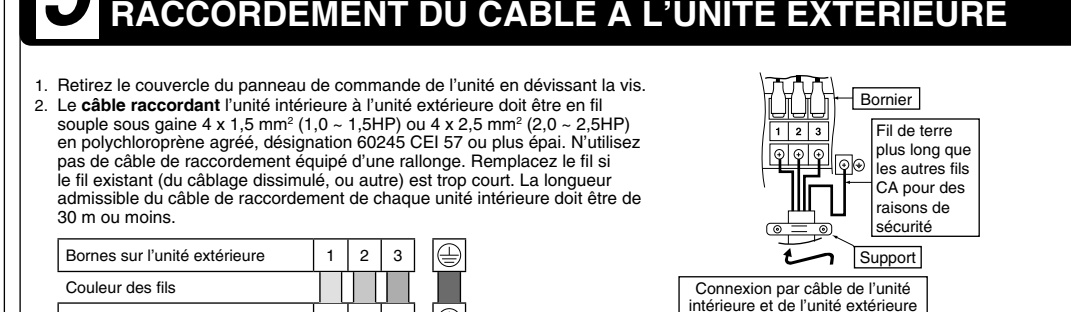
## 1 CHOIX DE L'EMPLACEMENT

(Cl. chapitre « Choix de l'emplacement »)

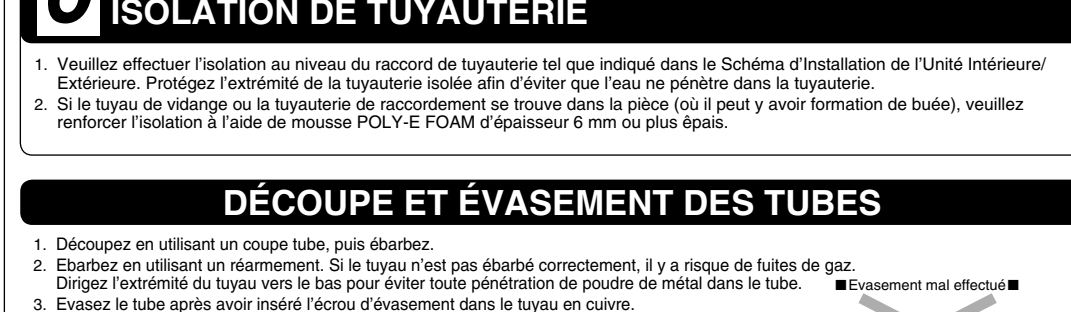
## 2 INSTALLATION DE L'UNITÉ EXTÉRIEURE



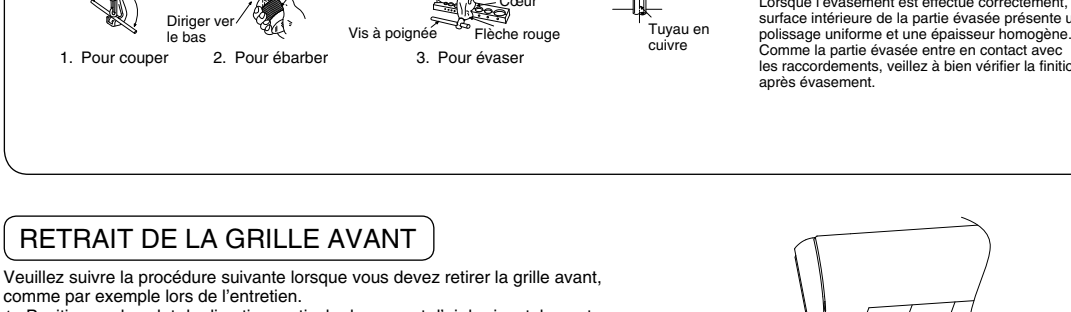
## 5 RACCORDEMENT DU CÂBLE À L'UNITÉ EXTÉRIEURE



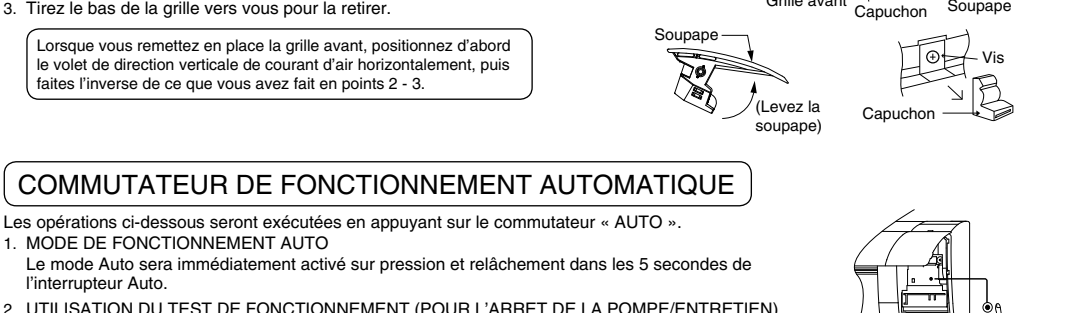
## 6 ISOLATION DE TUYAUTÉRIE



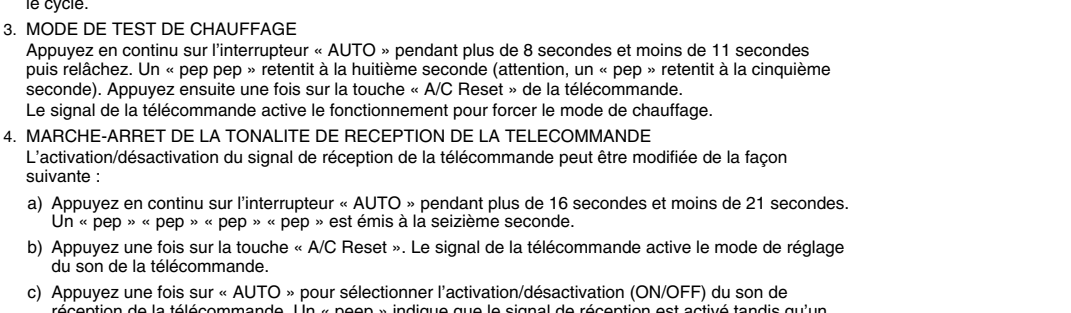
## DÉCOUPE ET ÉVASEMENT DES TUBES



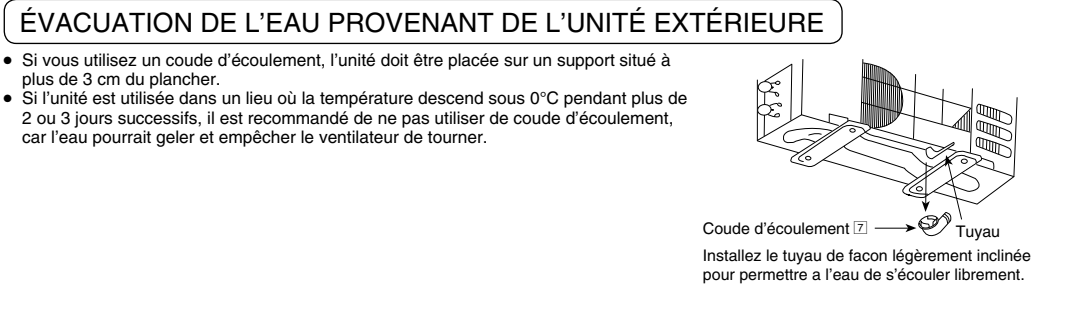
## RETRAIT DE LA GRILLE AVANT



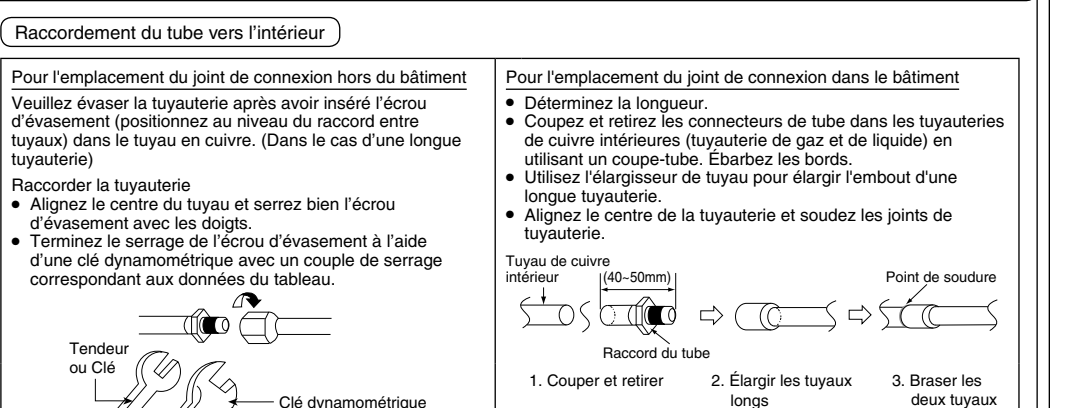
## COMMUTEUR DE FONCTIONNEMENT AUTOMATIQUE



## ÉVACUATION DE L'EAU PROVENANT DE L'UNITÉ EXTÉRIEURE



## 3 RACCORDER LA TUYAUTÉRIE



## Raccordement du tube vers l'extérieur

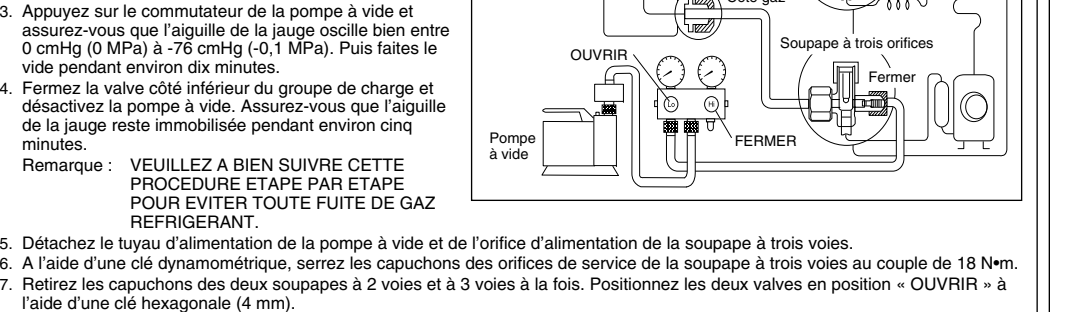
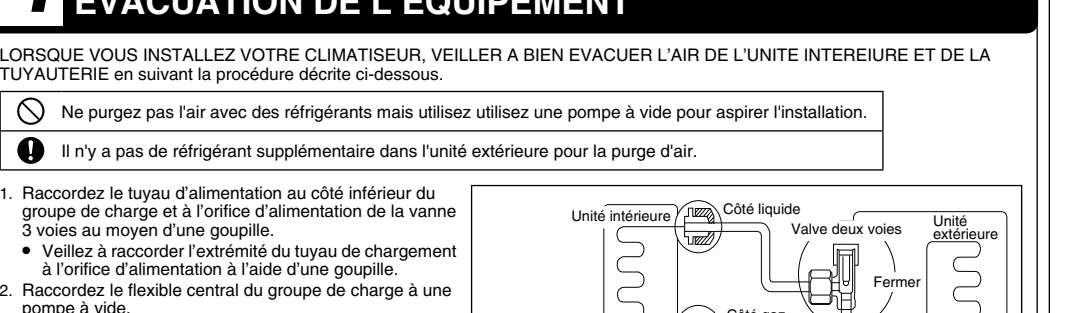
Déterminez la longueur de tuyau nécessaire, puis coupez le tuyau en utilisant un coupe-tube. Ébarbez les bords.

Évasez après avoir inséré l'écrou d'évasement dans le tuyau en cuivre (positionnez au niveau des soupapes). Alignez le centre du tuyau et la valve puis resserez à l'aide d'une clé dynamométrique avec un couple de serrage tel que spécifié dans le tableau.

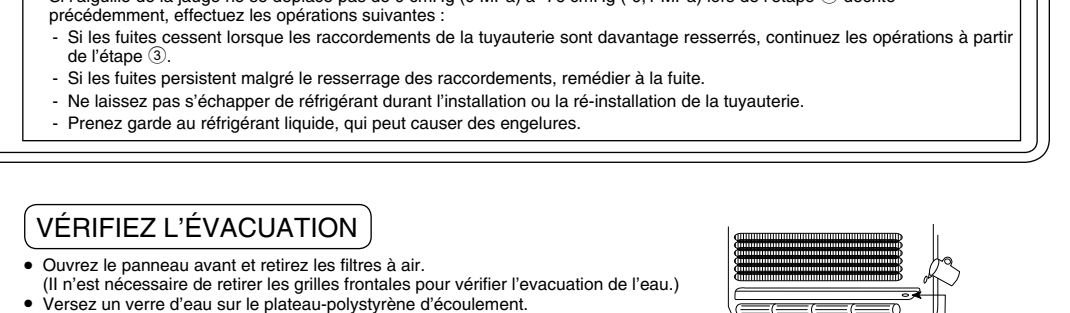
Taille de la tuyauterie	Couple
6,35 mm (1/4")	[18 N·m (1,8 kgf·m)]
9,52 mm (3/8")	[42 N·m (4,3 kgf·m)]
12,7 mm (1/2")	[55 N·m (5,6 kgf·m)]
15,88 mm (5/8")	[65 N·m (6,6 kgf·m)]
19,05 mm (3/4")	[100 N·m (10,2 kgf·m)]

## LA MÉTHODE DE PURGE DE L'AIR EST INTERDITE POUR LE SYSTÈME R32

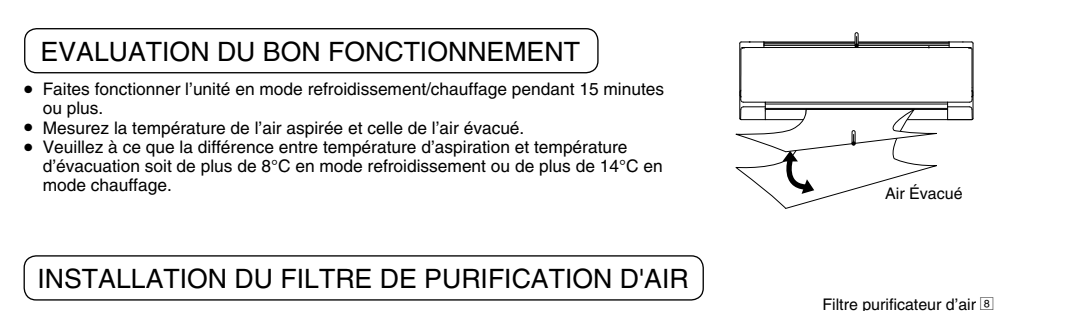
## 4 ÉVACUATION DE L'ÉQUIPEMENT



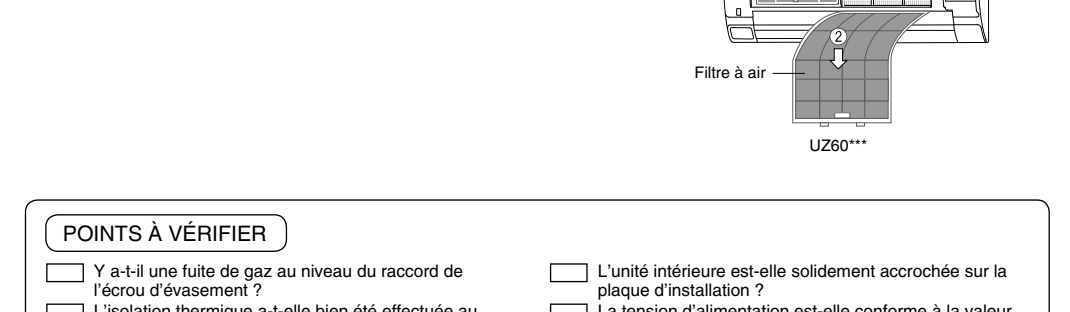
## VÉRIFIEZ L'ÉVACUATION



## EVALUATION DU BON FONCTIONNEMENT



## INSTALLATION DU FILTRE DE PURIFICATION D'AIR



POINTS À VÉRIFIER	
<input type="checkbox"/> Y a-t-il une fuite de gaz au niveau du raccord de l'écrou d'évasement ?	<input type="checkbox"/> L'unité intérieure est-elle solidement accrochée sur la plaque d'installation ?
<input type="checkbox"/> L'isolation thermique a-t-elle bien été effectuée au niveau du raccord de l'écrou d'évasement ?	<input type="checkbox"/> La tension d'alimentation est-elle conforme à la valeur nominale ?
<input type="checkbox"/> Le câble de raccordement a-t-il été solidement fixé sur le bornier ?	<input type="checkbox"/> Y a-t-il des bruits suspects ?
<input type="checkbox"/> Le câble de raccordement a-t-il été solidement fixé à l'aide de la patte de fixation ?	<input type="checkbox"/> Le refroidissement est-il normal ?
<input type="checkbox"/> L'écoulement est-il adéquat ?	<input type="checkbox"/> Le thermostat fonctionne-t-il normalement ?
<input type="checkbox"/> (Cl. chapitre « Vérifiez l'évacuation »)	<input type="checkbox"/> L'opération LCD de la télécommande fonctionne-t-elle normalement ?
<input type="checkbox"/> L'appareil est-il bien raccordé à la terre ?	<input type="checkbox"/> Le filtre de purification d'air est-il installé ?

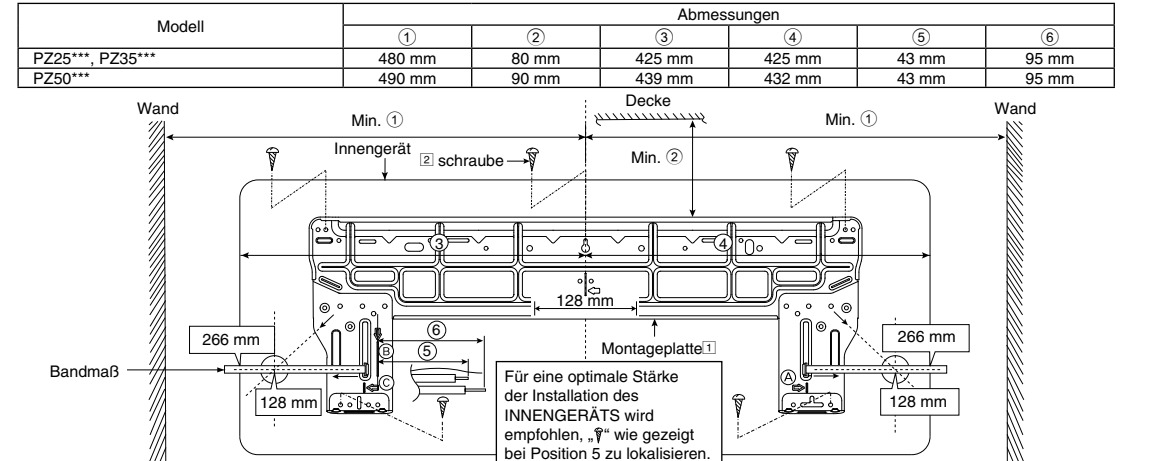
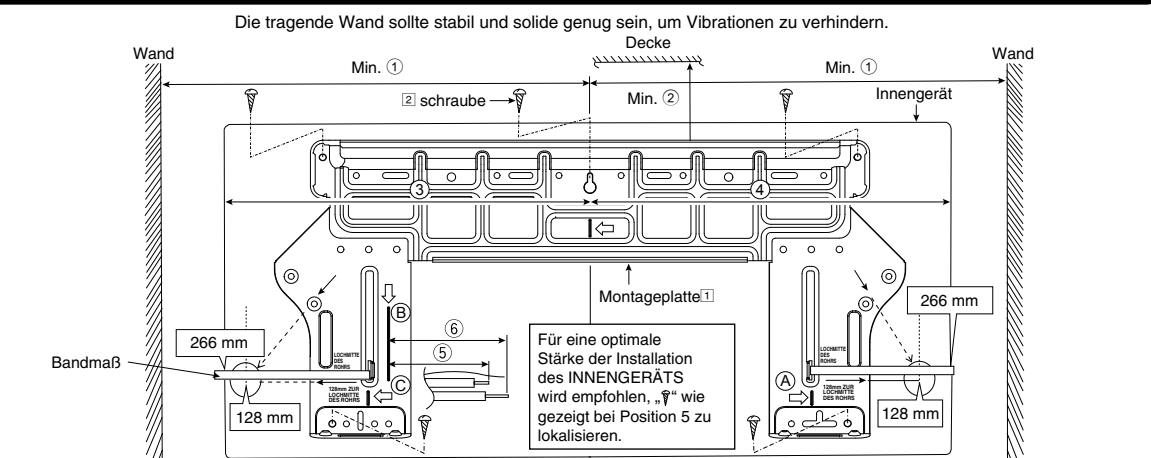




# INNENGERÄT

## 1 WAHL DES STANDORTS (Siehe Abschnitt „Wahl des Standorts“)

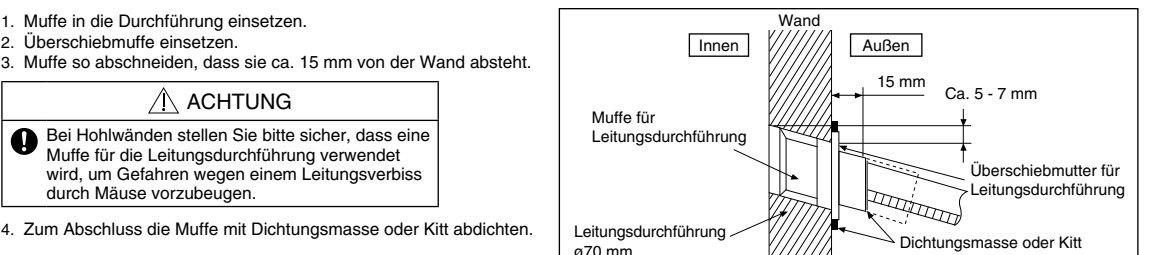
## 2 ANBRINGEN DER MONTAGEPLATTE



Der Mittelpunkt der Montageplatte sollte rechts und links mindestens 1 mm von der Wand entfernt sein. Der Abstand vom Rand der Montageplatte zur Decke muss mehr als 2 sein. Abstand von der Mitte der Montageplatte zur linken Geräteseite: 3. Abstand von der Mitte der Montageplatte zur rechten Geräteseite: 4. Linksseitige Verrohrung: Anschluss der Flüssigkeitsleitung ca. 5 von dieser Linie. Rechtsseitige Verrohrung: Anschluss der Gasleitung ca. 6 von dieser Linie.

- Die Montageplatte ist mit mindestens 5 Schrauben an der Wand zu befestigen. (Wenn das Gerät an einer Betonwand montiert wird, sind eventuell Ankerschrauben zu verwenden.)
- Die Montageplatte sollte horizontal anbringen. Hierzu ist die Markierungslinie mit dem Faden eines Lots zu deckung zu bringen bzw. eine Wasserwaage zu benutzen.
- Die Bohrung kann rechts oder links von der Montageplatte vorgenommen werden. Der Schnittpunkt der verlängerten Linien ist der Mittelpunkt der Bohrung. Der Mittelpunkt kann auch durch Anlegen eines Bandmaßes ermittelt werden, wie in der obenstehenden Abbildung dargestellt. Er befindet sich rechts wie links in einem Abstand von 128 mm.
- Bohren Sie das Loch entweder an der rechten oder linken Seite. Es sollte etwas zur Außenseite geneigt sein.

## 3 BOHREN DER WANDDURCHFÜHRUNG UND ANBRINGEN DER MUFFE



## 5 KABELANSCHLUSS AM INNENGERÄT

Zum Anschluss des Netzkabels sowie des Verbindungskabels zwischen Innengerät und Außengerät muss das vordere Gitter nicht abgenommen werden.

- Installieren Sie das Innengerät an der an der Wand angebrachten Haltevorrichtung.
- Öffnen Sie die Frontplatte und die Gittertür, indem Sie die Schraube lösen.
- Kabelanschluss an die Stromversorgung durch Isolierungsvorrichtung (Trennorgan).
- Verbinden Sie das zusätzliche Polychloropren-beschichtete Stromversorgungs-kabel des Typs 60245 IEC 57 (3 x 1,5 mm<sup>2</sup> (1,0 bis 1,5 HP) oder 3 x 2,5 mm<sup>2</sup> (2,0 bis 2,25 HP)) oder ein schwereres Kabel mit dem Klemmenbrett und das andere Ende des Kabels mit den Isolierungsvorrichtungen (Trennorgan).
- Verwenden Sie kein kombiniertes Netzkabel. Tauschen Sie das Kabel aus, wenn das vorhandene Kabel (von der Unterputzverlegung oder aus anderen Gründen) zu kurz ist.
- In Fällen, wo dies nicht vermeidbar ist, sollte die Verbindung des Netzkabels zwischen Trennvorrichtungen und Klemmenleiste der Klimaanlage auf eine genehmigte Steckdose und einen genehmigten Stecker von 15/16 A (1,0 bis 1,5 HP) oder 16 A (2,0 bis 2,25 HP) erfolgen. Die Verkabelung von Steckdose und Stecker muss den nationalen Verkabelungsstandards Rechnung tragen.
- Umwickeln Sie alle Schutzleiter des Netzkabels mit Klebeband und führen Sie das Netzkabel durch die linke Durchführung.
- Als Verbindungskabel zwischen Innen- und Außengerät sollte ein vorschriftsmäßiges Polychloropren-beschichtetes Kabel vom Typ 60245 IEC 57 (4 x 1,5 mm<sup>2</sup> (1,0 bis 1,5 HP) oder 4 x 2,5 mm<sup>2</sup> (2,0 bis 2,25 HP)) oder ein schwereres Kabel verwendet werden. Die erlaubte Verbindungskabellänge jedes Innengerätes sollte 30 m oder weniger betragen.
- Umwickeln Sie alle Verbindungskabel zwischen dem Innen- und Außengerät mit Klebeband und führen Sie sie durch die rechte Durchführung.
- Entfernen Sie das Klebeband und schließen Sie das Netzkabel und die Verbindungskabel an das Innen- und Außengerät an, wie im unteren Schaltplan gezeigt.

**VORSICHT** Dieses Gerät muss ordnungsgemäß geerdet werden.

Empfohlene Länge (mm): a=55, b=35, c=35, d=50, e=40, f=35, g=60.

**ABSOLUTIEREN, ANSCHLUSSBEDINGUNGEN**

Kabelisolierung: Verleihen Sie beim Einführen nicht die Kabelitze.

ANNEHMEN, VERBOTEN, VERBOTEN

BRANDGEFAHR: DAS KURZSCHLIESSEN VON DRÄHTEN KANN ZU ÜBERTEMPORATUR UND BRÄNDEN FÜHREN.

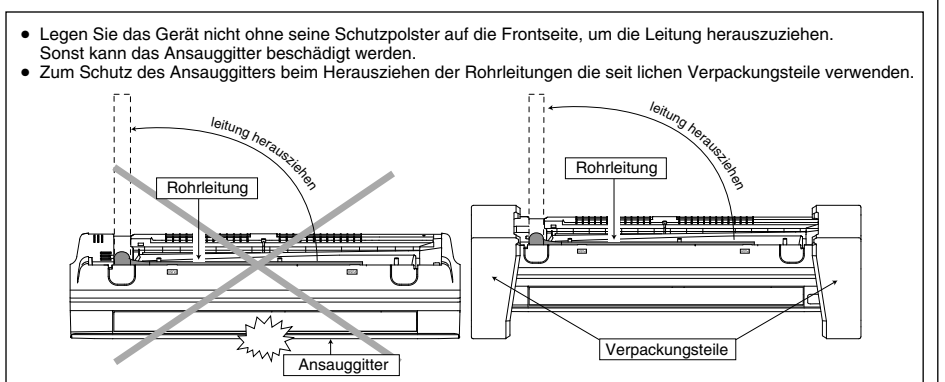
Drähte nicht kurzschließen.

Verwenden Sie den kompletten Draht, ohne ihn kurzzuschneiden.

Verwenden Sie eine genehmigte Steckdose und einen genehmigten Stecker mit Erdungsleiter.

Die Kabelverbindungen in diesem Bereich müssen die nationalen Vorschriften zur Verdrängung befolgen.

## 4 MONTAGE DES INNENGERÄTS



Legen Sie das Gerät nicht ohne seine Schutzpolster auf die Frontseite, um die Leitung herauszuziehen. Sonst kann das Ansauggitter beschädigt werden. Zum Schutz des Ansauggitters beim Herausziehen der Rohrleitungen die seitlichen Verpackungsteile verwenden.

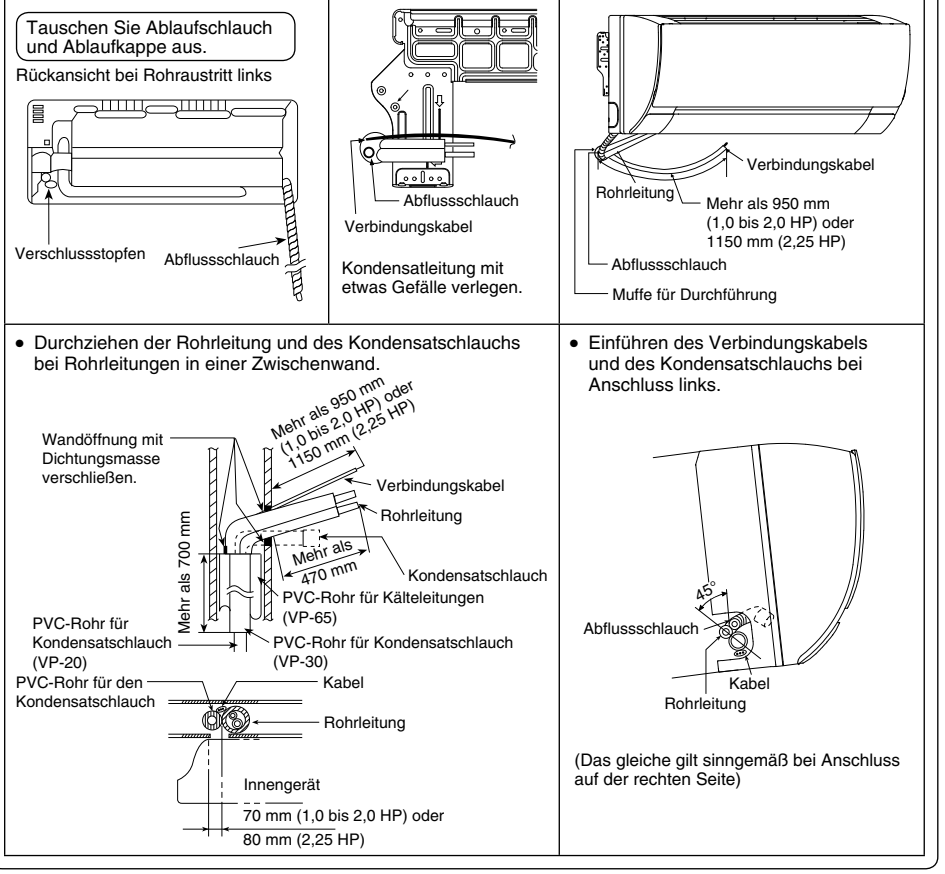
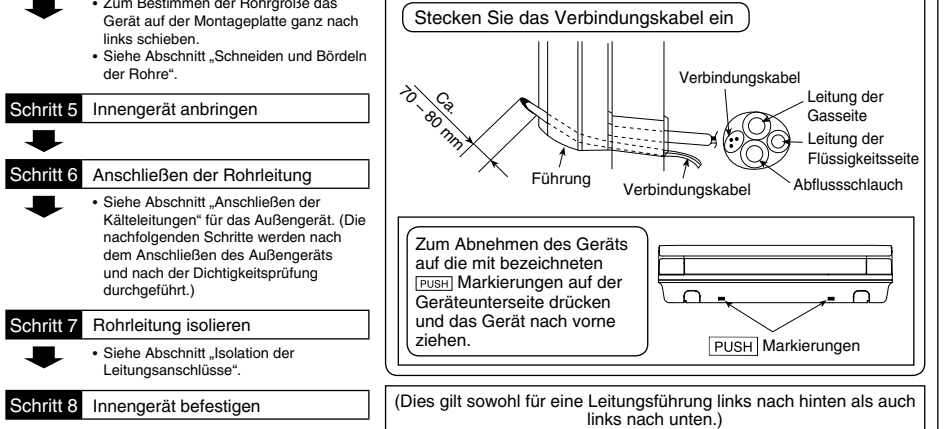
- 1. ROHRAUSTRITT RECHTS NACH HINTEN**
  - Schritt 1: Leitung aus dem Gerät ziehen
  - Schritt 2: Innengerät anbringen
  - Schritt 3: Innengerät befestigen
  - Schritt 4: Stecken Sie das Netzkabel und das Verbindungskabel ein

**2. ROHRAUSTRITT RECHTS NACH UNTEN**

- Schritt 1: Leitung aus dem Gerät ziehen
- Schritt 2: Innengerät anbringen
- Schritt 3: Stecken Sie das Netzkabel und das Verbindungskabel ein
- Schritt 4: Innengerät befestigen

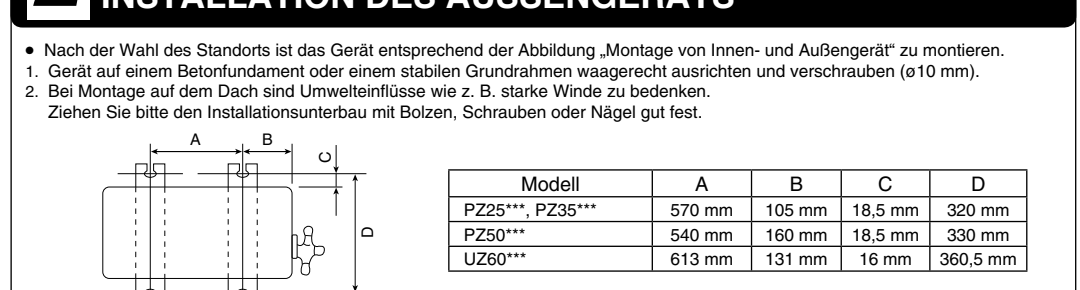
**3. ROHRLÉITUNG IN ZWISCHENWAND**

- Schritt 1: Kondensatschlauch umstecken
- Schritt 2: Rohrleitung biegen
- Schritt 3: Verbindungskabel in das Innengerät ziehen
- Schritt 4: Rohrleitung schneiden und bördeln
- Schritt 5: Innengerät anbringen
- Schritt 6: Anschließen der Rohrleitung
- Schritt 7: Rohrleitung isolieren
- Schritt 8: Innengerät befestigen

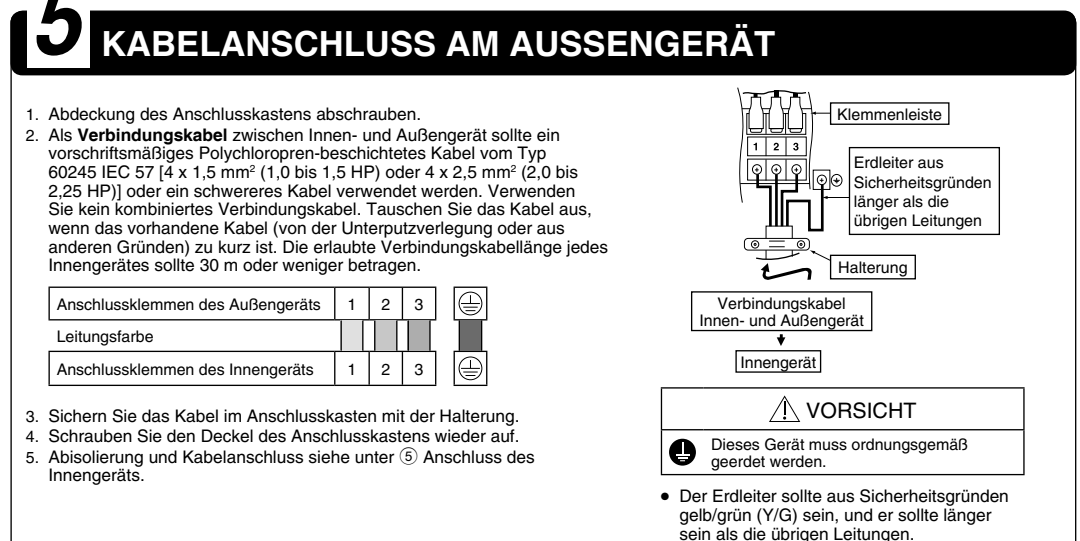


## 1 WAHL DES STANDORTS (Siehe Abschnitt „Wahl des Standorts“)

## 2 INSTALLATION DES AUSSENGERÄTS



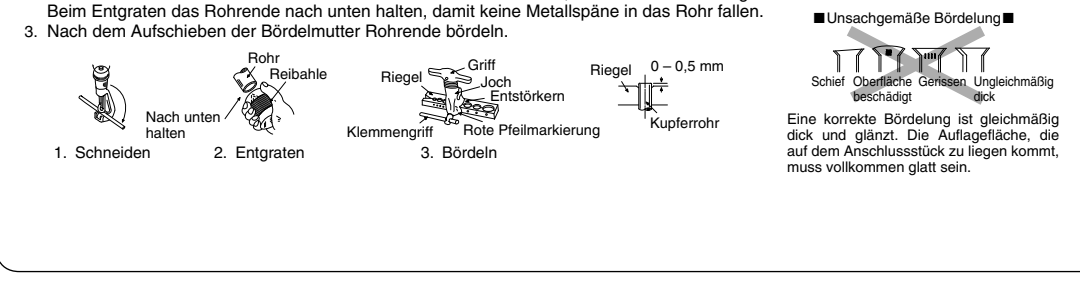
## 5 KABELANSCHLUSS AM AUSSENGERÄT



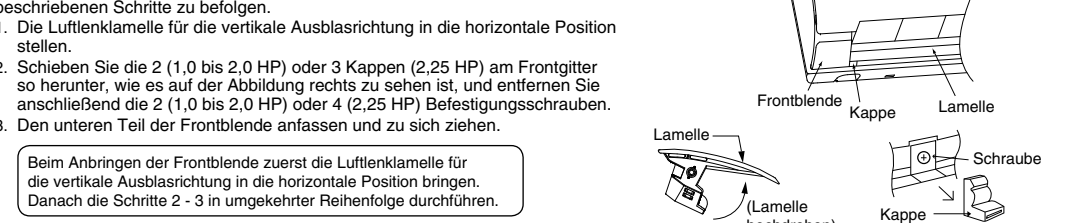
## 6 ROHRDÄMMSTOFF

- Siehe Abschnitt „Isolieren der Rohrleitung“ für das Außengerät sowie den Hinweis „Isolation der Rohranschlüsse“ bei der Abbildung „Montage des Innen- und Außengeräts“. Umwickeln Sie bitte das isolierte Rohr, damit kein Wasser in die Rohre eindringen kann.
- Falls der Kondensatschlauch oder die Verbindungsrohre in einem Raum sind (wo sich Kondenswasser bilden kann), müssen Sie die Isolation durch Benutzung von PU-SCHAUM mit einer Dicke von 6 mm oder mehr verbessern.

## SCHNEIDEN UND BÖRDELN DER ROHRE



## ABNEHMEN DER FRONTBLENDE

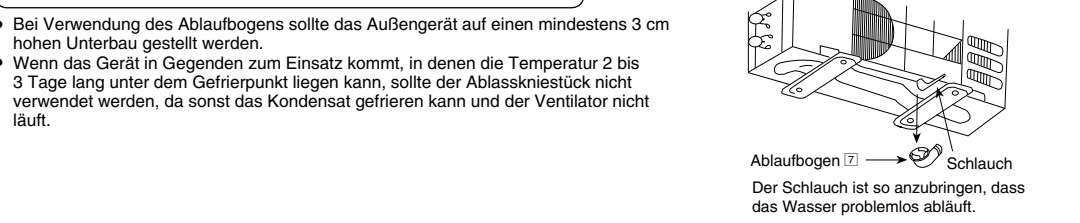


## FUNKTIONEN DER AUTO-TASTE

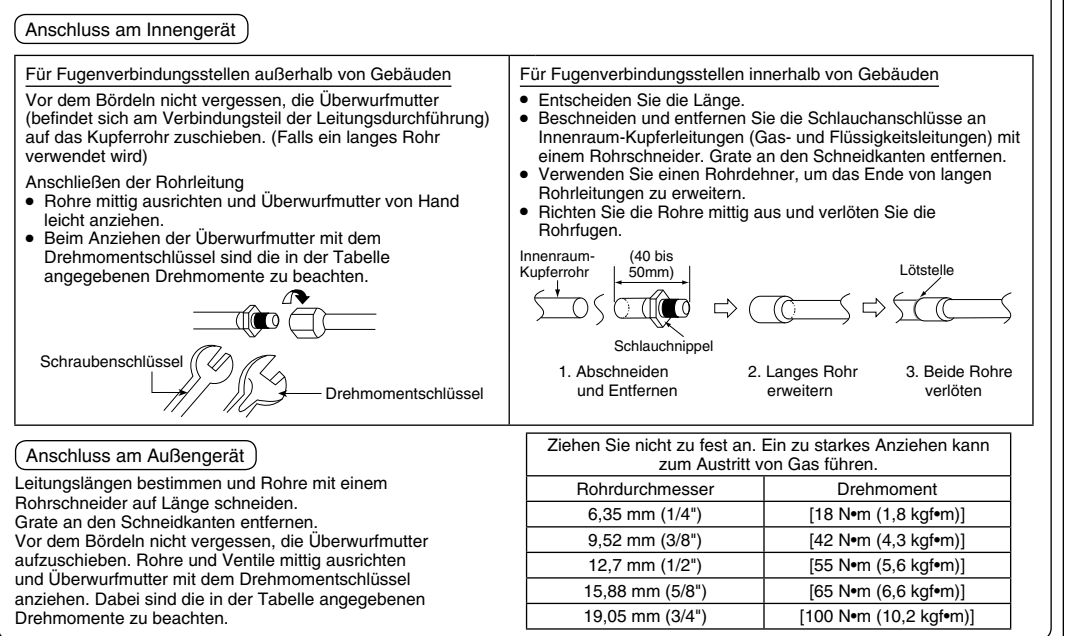
Durch Betätigung der „AUTO“-Taste sind folgende Funktionen verfügbar.

- 1. AUTOMATIKBETRIEB**  
Der Automatikbetrieb wird aktiviert, wenn die Auto-Taste weniger als 5 Sekunden gedrückt wird.
- 2. TESTLAUFBETRIEB (FÜR ABSAUGE-WARTUNGSZWECKE)**  
Der Testbetrieb wird aktiviert, wenn die Auto-Taste zwischen 5 und 8 Sekunden lang gedrückt wird. Nach 5 Sekunden ertönt ein Piepton, der den Start des Testbetriebs andeutet.
- 3. TESTBETRIEB HEIZEN**  
Drücken Sie die „AUTO“-Taste zwischen 8 und 11 Sekunden und lösen Sie die Taste, wenn ein „pep“-Ton nach acht Sekunden ertönt. (Jedoch ertönt ein „pep“-Ton nach fünf Sekunden) Drücken Sie dann einmal die „A/C Reset“-Taste auf der Fernbedienung. Das Gerät schaltet nun in den Zwangs-Heizbetrieb.
- 4. EINAUSCHALTEN DES EMPFANGSPIEPTONS**  
Der Bestätigungston für den Empfang von Fernbedienungssignalen kann wahlweise ein- oder ausgeschaltet werden:
  - a) „AUTO“-Taste des Innengeräts zwischen 16 und 21 Sekunden lang drücken. Ein „pep“, „pep“, „pep“, „pep“-Ton ertönt mit der 16. Sekunde.
  - b) Taste „A/C Reset“ der Fernbedienung drücken. Durch das Signal der Fernbedienung wird der Einstellungsmodus für den Piepton für eingehende Fernbedienungssignale aufgerufen.
  - c) Die Taste „AUTO“ einmal drücken, um den Bestätigungston für den Empfang von Fernbedienungssignalen ein- oder auszuschalten. Ein „Peep“-Ton zeigt an, dass der Ton auf ON steht und ein „Peep“-Ton zeigt an, dass der Empfangston auf OFF steht.

## KONDENSATABLAUF DES AUSSENGERÄTS

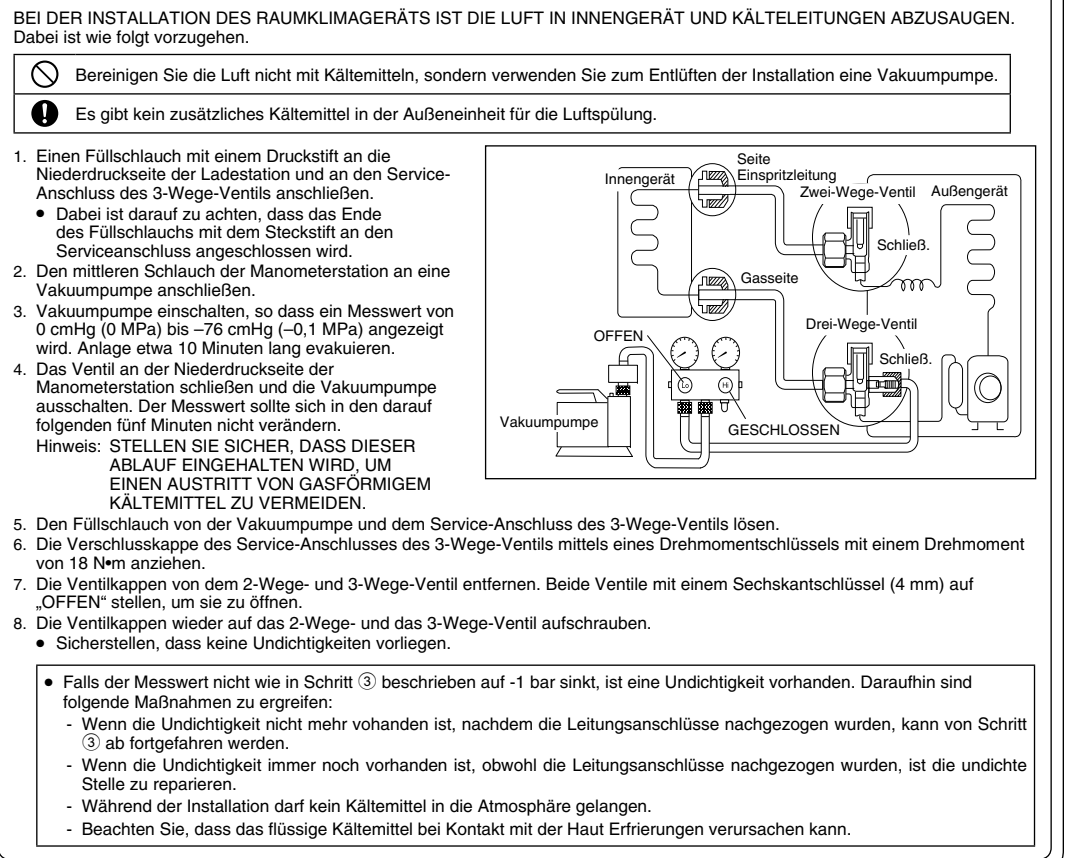


## 3 ANSCHLIESSEN DER ROHRLEITUNG

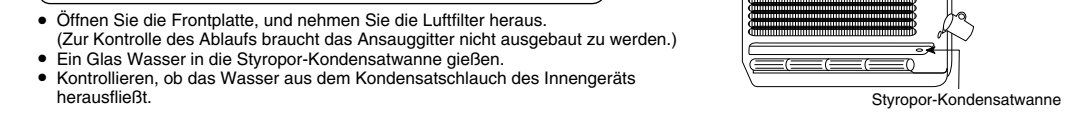


## DIE LUFTSPÜLMETHODE IST FÜR DAS R32-SYSTEM VERBOTEN

## 4 EVAKUIEREN DER ANLAGE



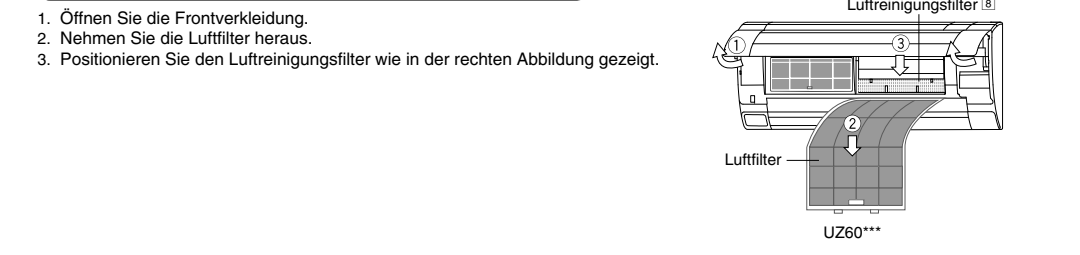
## ÜBERPRÜFEN DES KONDENSATABLAUFS



## BEURTEILUNG DER LEISTUNG

- Betreiben Sie das Gerät 15 Minuten oder länger im Kühlmodus im Heizbetrieb.
- Danach die Temperatur der angesaugten und der ausgeblasenen Luft messen.
- Vergewissern Sie sich, dass der Temperaturunterschied zwischen der ein- und ausströmenden Luft beim Kühlen mehr als 8°C und beim Heizen mehr als 14°C beträgt.

## INSTALLATION LUFTREINIGUNGSFILTER



CHECKLISTE	
<input type="checkbox"/> Tritt an den Bördelverbindungen Kältemittel aus?	<input type="checkbox"/> Stimmt die Netzspannung mit der Nennspannung überein?
<input type="checkbox"/> Wurden die Bördelverbindungen isoliert?	<input type="checkbox"/> Treten ungewöhnliche Geräusche auf?
<input type="checkbox"/> Wurde das Verbindungskabel richtig angeklemt?	<input type="checkbox"/> Ist der Kühl-/ der Heizbetrieb normal?
<input type="checkbox"/> Wurde das Verbindungskabel ordentlich befestigt?	<input type="checkbox"/> Arbeitet die Thermostatschaltung normal?
<input type="checkbox"/> Ist der Kondensatablauf in Ordnung? (Siehe Überprüfen des Kondensatablaufs.)	<input type="checkbox"/> Funktioniert die Anzeige der Fernbedienung normal?
<input type="checkbox"/> Ist die Erdung richtig vorgenommen worden?	<input type="checkbox"/> Ist das Innengerät richtig an der Montageplatte befestigt?
<input type="checkbox"/> Wurde der Luftreinigungsfilter installiert?	











