

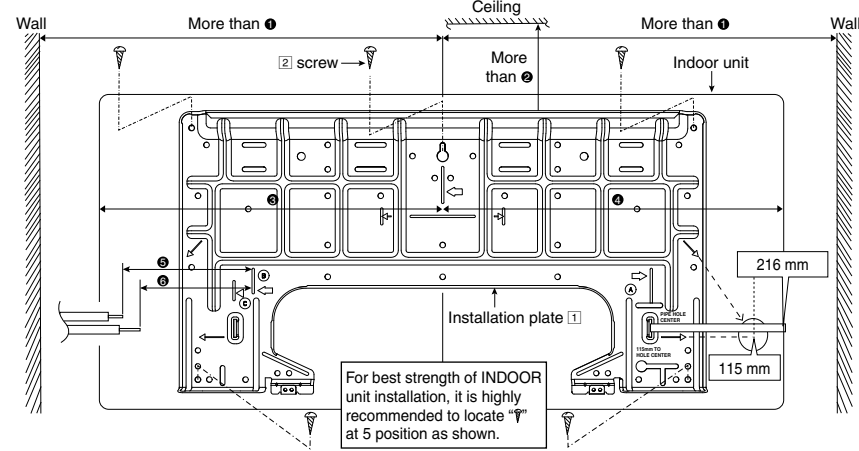
INDOOR UNIT

1 SELECT THE BEST LOCATION

(Refer to "Select the best location" section)

2 HOW TO FIX INSTALLATION PLATE

The mounting wall shall be strong and solid enough to prevent it from vibration.



Model	Dimension				
	①	②	③	④	⑤
CZ25***, CZ35***	465 mm	70 mm (+)	365 mm	415 mm	170 mm

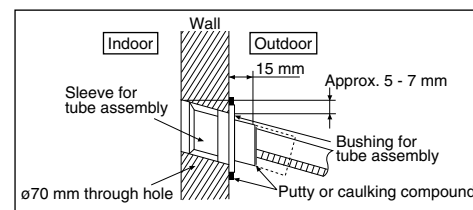
- The center of installation plate should be at more than ① at right and left of the wall. The distance from installation plate edge to ceiling should be more than ②. From installation plate center to unit's left side is ③. From installation plate center to unit's right side is ④. ⑤: For left side piping, 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 hole with $\phi 70$ 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 115 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

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

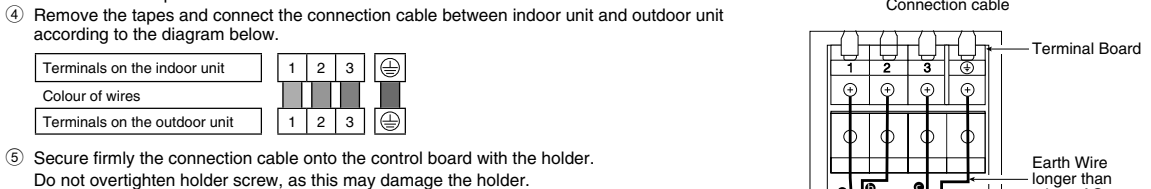
CAUTION
When the wall is hollow, please be sure to use the sleeve for tube assembly to prevent dangers caused by mice biting the connection cable.

- Finish by sealing the sleeve with putty or caulking compound at the final stage.



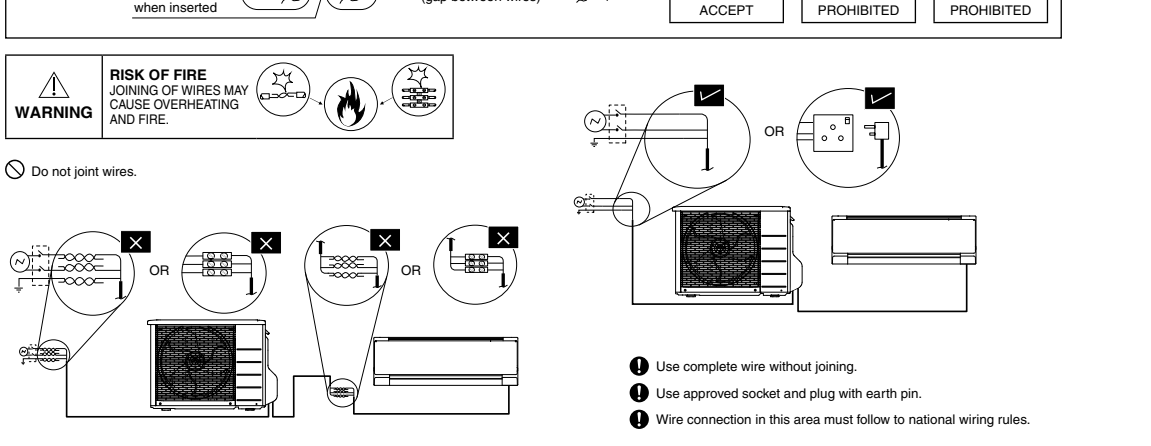
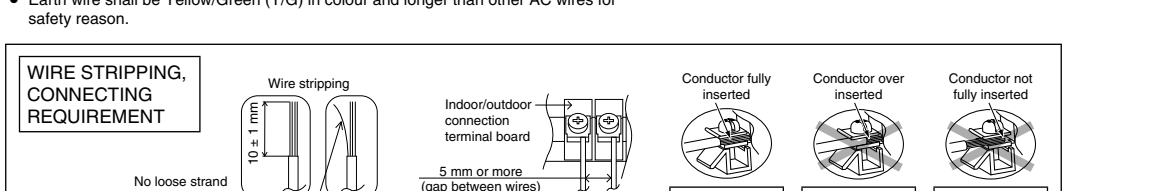
5 CONNECT THE CABLE TO THE INDOOR UNIT

- The inside and outside connection cable can be connected without removing the front grille.
- Connection cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 4 x 1.5 mm² flexible cord, type designation 60245 IEC 57 or heavier cord. Do not use joint connection cable. Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short. Allowable connection cable length of each indoor unit shall be 30 m or less.
- Bind all the indoor and outdoor connection cable with tape and route the connection cable via the left side escapement.
- Remove the tapes and connect the connection cable between indoor unit and outdoor unit according to the diagram below.



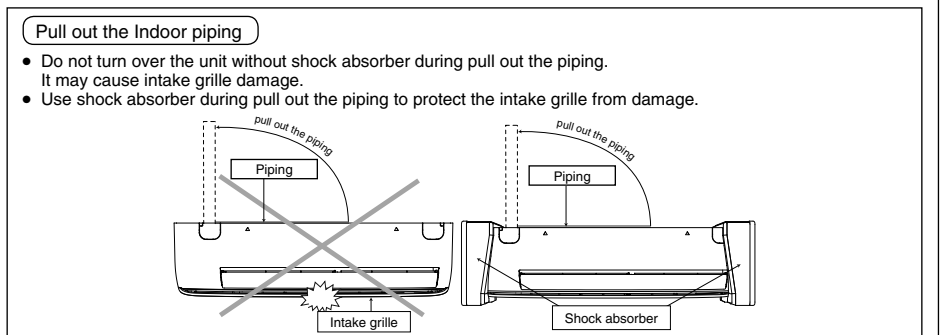
- Secure firmly the connection cable onto the control board with the holder. Do not overtighten holder screw, as this may damage the holder.

WARNING
This equipment must be properly earthed.



4 INDOOR UNIT INSTALLATION

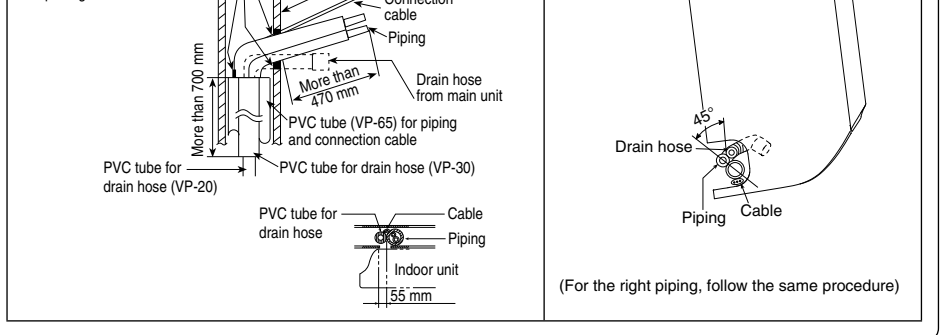
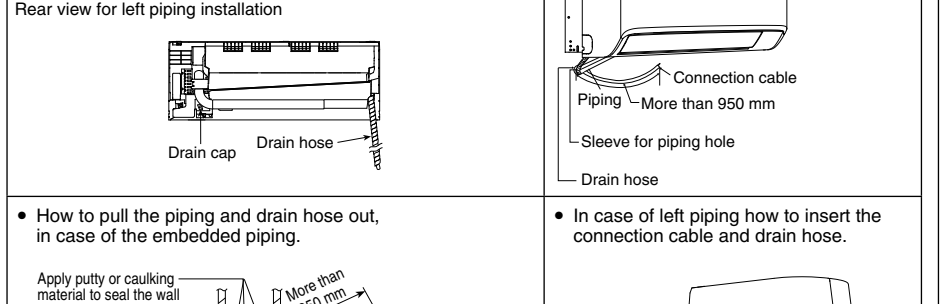
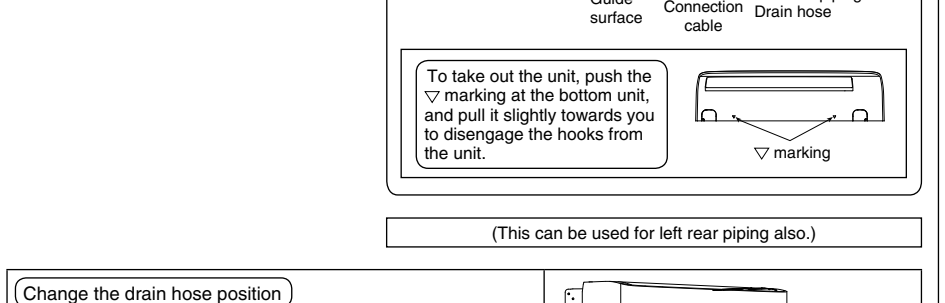
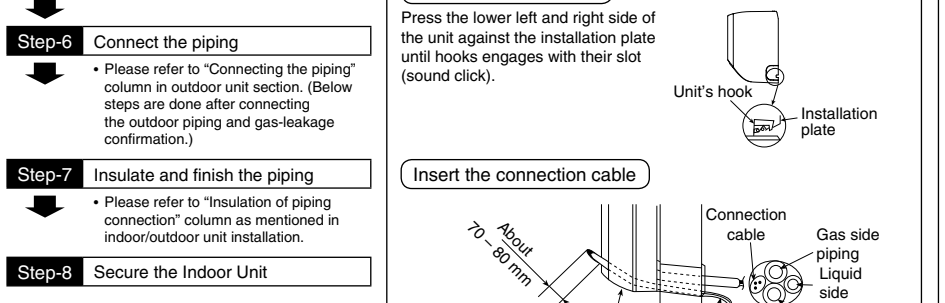
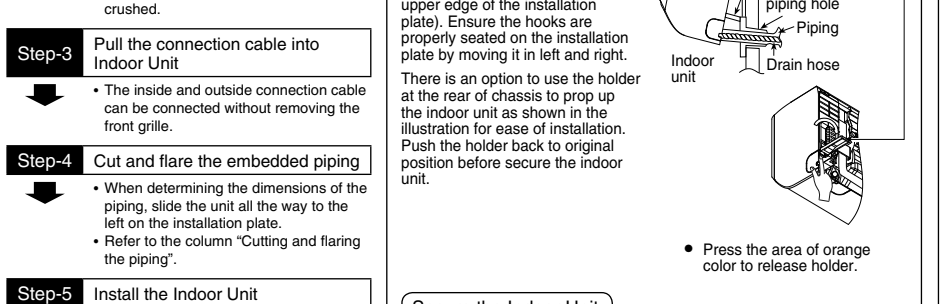
(Refer to "Select the best location" section)



- FOR THE RIGHT REAR PIPING
 - Pull out the Indoor piping
 - Install the Indoor Unit
 - Secure the Indoor Unit
 - Insert the connection cable

- FOR THE RIGHT AND RIGHT BOTTOM PIPING
 - Pull out the Indoor piping
 - Install the Indoor Unit
 - Insert the connection cable
 - Secure the Indoor Unit

- FOR THE EMBEDDED PIPING
 - Change the drain hose position
 - Bend the embedded piping
 - Pull the connection cable into Indoor Unit
 - Cut and flare the embedded piping
 - Install the Indoor Unit
 - Connect the piping
 - Insulate and finish the piping
 - Secure the Indoor Unit



OUTDOOR UNIT

1 SELECT THE BEST LOCATION

(Refer to "Select the best location" section)

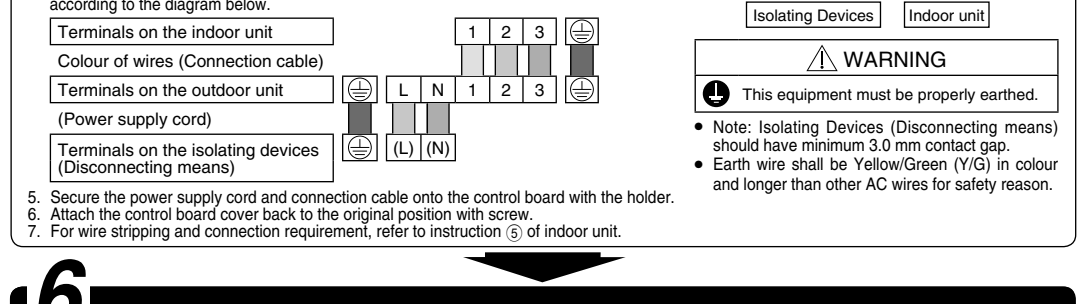
2 INSTALL THE OUTDOOR UNIT

- After selecting the best location, start installation to Indoor/Outdoor Unit Installation Diagram.
- Fix the unit on concrete or rigid frame firmly and horizontally by bolt nut ($\phi 10$ mm). Make sure unit install in balance level to ensure that water flow out from unit drainage hole. When installing at roof, please consider strong wind and earthquake. Please fasten the installation stand firmly with bolt, screws or nails.

- CONNECT THE PIPING
 - Connecting The Piping to Indoor
 - For connection joint of all models
Please make flare after inserting flare nut (locate at joint portion of tube assembly) onto the copper pipe. (In case of using long piping)
 - Connect the piping
Align the center of piping and sufficiently tighten the flare nut with piping.
Further tighten the flare nut with torque wrench in specified torque as stated in the table.
 - Connecting The Piping to Outdoor
 - Decide piping length and then cut by using pipe cutter. Remove burrs from cut edge.
Make flare after inserting the flare nut (locate at valve) onto the copper pipe. Align center of piping to valve and then tighten with torque wrench to the specified torque as stated in the table.

Model	Dimension			
	A	B	C	D
CZ25***, CZ35***	540 mm	160 mm	18.5 mm	330 mm

- CONNECT THE CABLE TO THE OUTDOOR UNIT
 - Remove the control board cover from the unit by loosening the screw.
 - Cable connection to the power supply through Isolating Devices (Disconnecting means).
Connect approved type polychloroprene sheathed power supply cord 3 x 1.5 mm² type designation 60245 IEC 57 or heavier cord to the terminal board, and connect the other end of the cord to Isolating Devices (Disconnecting means).
Do not use joint power supply cord. Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short.
In unavoidable case, joining of power supply cord between isolating devices and terminal board of air conditioner shall be done by using approved socket and plug with earth pin rated 15/16A. Wiring work to both socket and plug must follow to national wiring standard.
 - Connection cable between indoor unit and outdoor unit shall be approved polychloroprene sheathed 4 x 1.5 mm² flexible cord, type designation 60245 IEC 57 or heavier cord. Do not use joint connection cable. Replace the wire if the existing wire (from concealed wiring, or otherwise) is too short. Allowable connection cable length of each indoor unit shall be 30 m or less.
 - Connect the power supply cord and connection cable between indoor unit and outdoor unit according to the diagram below.



- PIPING INSULATION
 - Please carry out insulation at pipe connection portion as mentioned in Indoor/Outdoor Unit Installation Diagram. Please wrap the insulated piping end to prevent water from going inside the piping.
 - If drain hose or connecting piping is in the room (where dew may form), please increase the insulation by using POLY-E FOAM with thickness 6 mm or above.

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

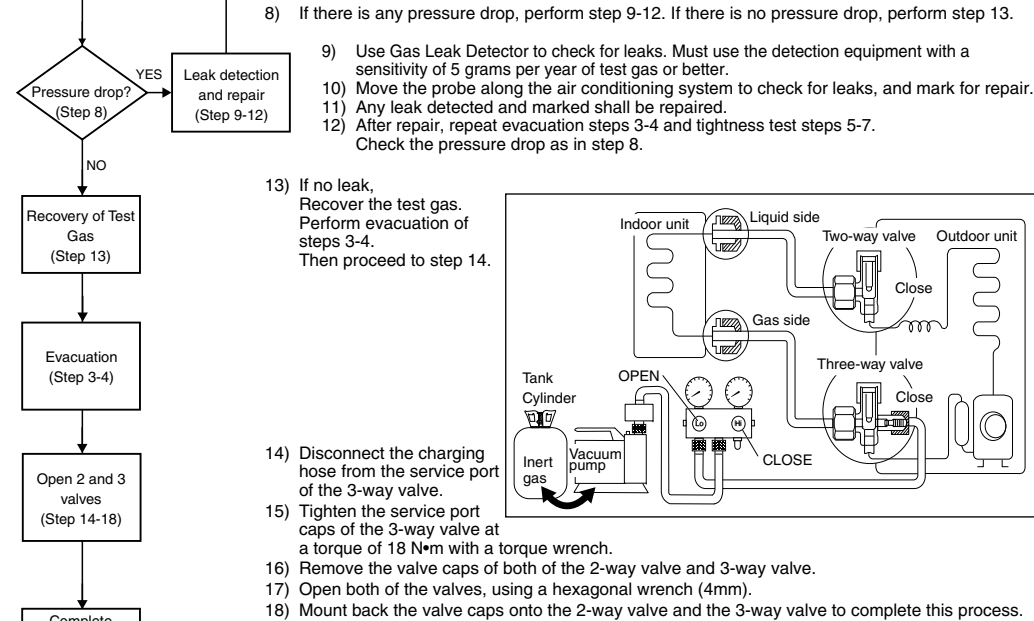
- HOW TO TAKE OUT FRONT GRILLE
 - Please follow the steps below to take out front grille if necessary such as when installing or servicing.
 - Open front panel.
 - Remove the 3 mounting screws on the front grille as shown in the illustration at right.
 - Slide the 3 lock knobs on the upside of front grille to unlock position.
 - Pull the front grille towards you to remove the front grille.

- AUTO SWITCH OPERATION
 - The below operations will be performed by pressing the "AUTO" switch.
 - AUTO OPERATION MODE
The Auto operation will be activated immediately once the Auto Switch is pressed and release within 5 sec.
 - TEST RUN OPERATION (FOR PUMP DOWN/SERVICING PURPOSE)
The Test Run operation will be activated if the Auto Switch is pressed continuously for more than 5 sec. to below 8 sec. A "pep" sound will occur at fifth sec., in order to identify the starting of Test Run operation.
 - HEATING TRIAL OPERATION
Press the "AUTO" switch continuously for more than 8 sec. to below 11 sec. and release when a "pep" sound is occurred at eight sec. (However, a "pep" sound is occurred at fifth sec.) Then press Remote controller "AC Reset" button once. Remote controller signal will activate operation to force heating mode.
 - REMOTE CONTROLLER RECEIVING SOUND ON/OFF
The ON/OFF of Remote controller receiving sound can be change over by the following steps:
a) Press "AUTO" switch continuously for more than 16 sec. to below 21 sec.
A "pep", "pep", "pep" sound will occur at the sixteenth sec.
b) Press the "AC Reset" button once, "pep" sound will occur indicates that Remote controller receiving sound setting mode is activated.
c) Press "AUTO" switch again. Everytime "AUTO" switch is pressed (within 60 sec. interval), Remote controller receiving sound status will be reversed between ON and OFF.
Long "pep" sound indicates that Remote controller receiving sound is ON.
Short "pep" sound indicates that Remote controller receiving sound is OFF.

4 AIR PURGING METHOD IS PROHIBITED FOR R32 SYSTEM

- AIR TIGHTNESS TEST ON THE REFRIGERATING SYSTEM
 - Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation.
 - There is no extra refrigerant in the outdoor unit air purging.

- Before system is charged with refrigerant and before the refrigerating system is put into operation, below site test procedure and acceptance criteria shall be verified by the certified technicians, and/or the installer.
- Be sure to check whole system for gas leakage.



- OUTDOOR UNIT DRAIN WATER
 - Water will drip from the basepan hole area during defrost function.
 - To avoid water dripping, do not stand or place objects at this area.

- CHECK THE DRAINAGE
 - Open front panel and remove air filters.
 - Drainage checking can be carried out without removing the front grille.
 - Pour a glass of water into the drain tray-styrofoam.
 - Ensure that water flows out from drain hose of the indoor unit.

- EVALUATION OF THE PERFORMANCE
 - Operate the unit at cooling/heating operation mode for fifteen minutes or more.
 - Measure the temperature of the intake and discharge air.
 - Ensure the difference between the intake temperature and the discharge is more than 8°C during Cooling operation or more than 14°C during Heating operation.

- INSTALLATION OF DUST COLLECTOR FILTER
 - Open the front panel.
 - Remove the air filters.
 - Put the Dust Collector Filter into place as shown in illustration at right.

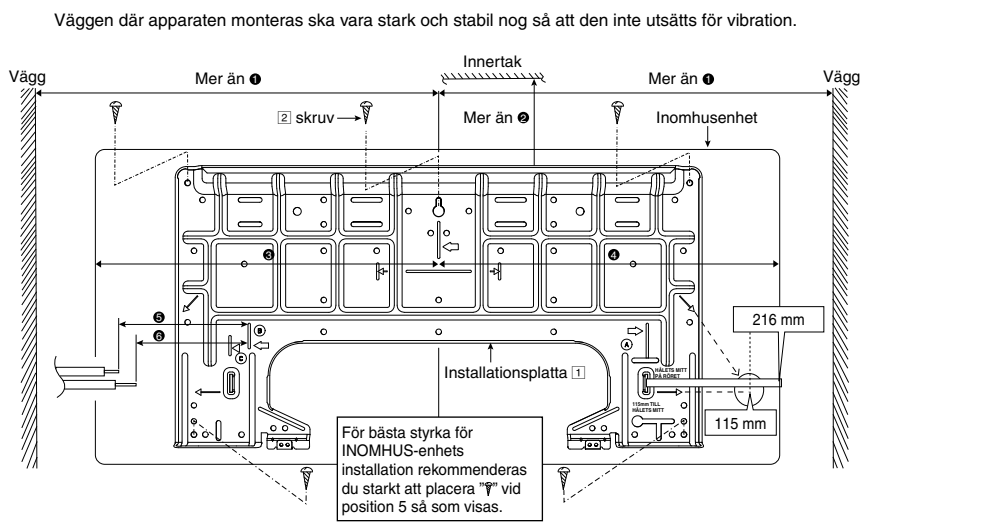
- IN CASE OF REUSING EXISTING REFRIGERANT PIPING
 - Observe the followings to decide reusing the existing refrigerant piping.
Poor refrigerant piping could result in product failure.
 - In the circumstances listed below, do not reuse any refrigerant piping. Instead, make sure to install a new piping.
- Heat insulation is not provided for either liquid-side or gas-side piping or both.
- The existing refrigerant pipe has been left in an open condition.
- The diameter and thickness of the existing refrigerant piping does not meet the requirement.
- The piping length and elevation does not meet the requirement.
 - Perform proper pump down before reuse piping.
 - In the circumstances listed below, clean it thoroughly before reuse.
- Pump down operation cannot be performed for the existing air-conditioner.
- The compressor has a failure history.
- Oil color is darken. (ASTM 4.0 and above).
- The existing air-conditioner is gas/oil heat pump type.
 - Do not reuse the flare to prevent gas leak. Make sure to install a new flare.
 - If there is a welded part on the existing refrigerant piping, conduct a gas leak check on the welded part.
 - Replace deteriorated heat insulating material with a new one.
Heat insulating material is required for both liquid-side and gas-side piping.

INOMHUSENHET

1 VÄLJ DEN BÄSTA PLATSEN

(Se kapitel "Välj den bästa platsen")

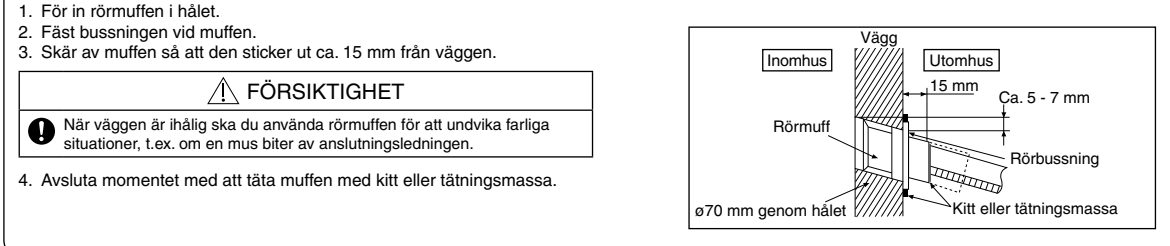
2 FASTSÄTTNING AV INSTALLATIONSPLATTAN



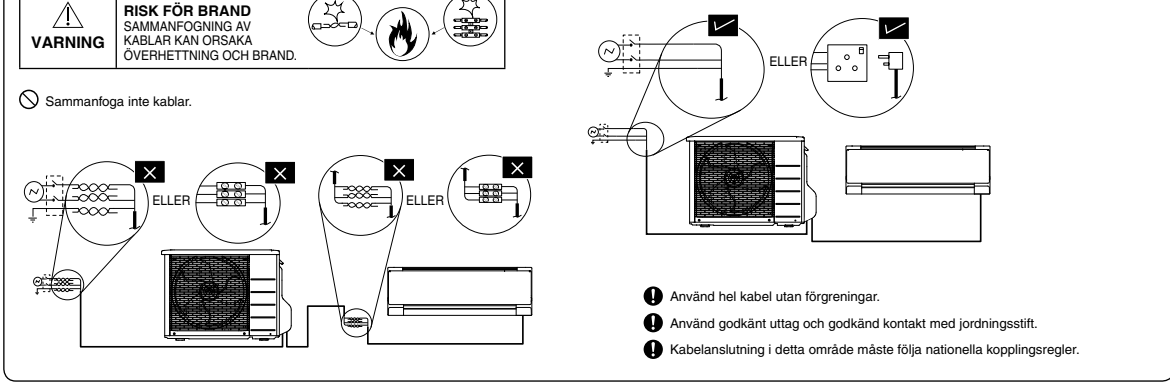
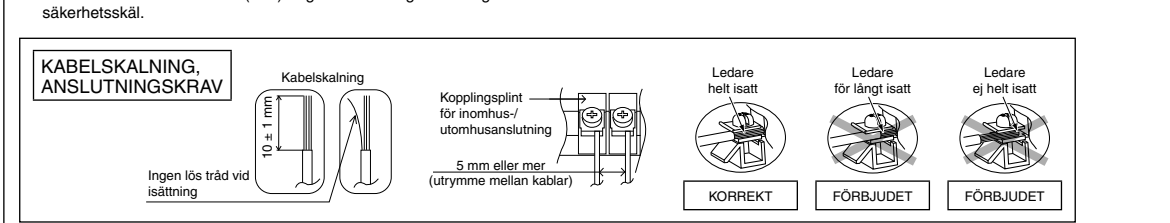
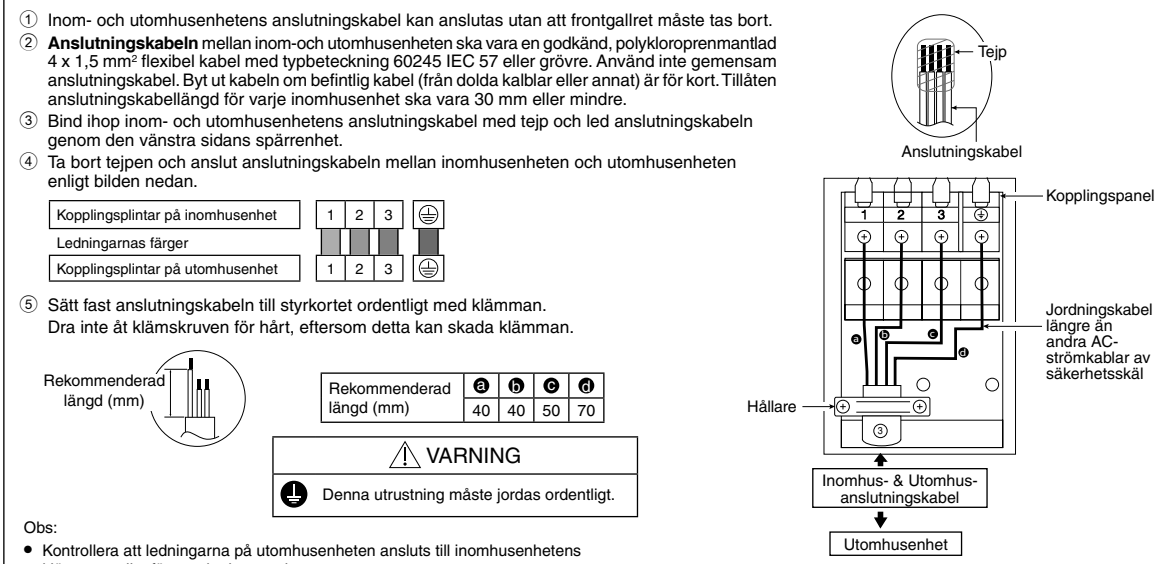
Modell	Mått				
	●	●	●	●	●
CZ25***, CZ35***	465 mm	70 mm (+)	365 mm	415 mm	170 mm

Installationsplåt mitt ska vara min. ① från väggens högra eller vänstra kant. Avståndet mellan installationsplåten ändre och taket ska vara minst ②. Från installationsplåttens mitt till enhetens vänstra sida är ③. Från installationsplåttens mitt till enhetens högra sida är ④. ⑤: Vid rördragnings från vänster ska röranslutningen på vätskesidan placeras ca. ⑤ från denna linje. ⑥: Vid rördragnings från vänster ska röranslutningen på gasid sidan placeras ca. ⑥ från denna linje. 1. Placera monteringsplattan på väggen med minst fem skruvar. (minst 5 skruvar). (Använd förankringsbultar om apparaten ska fästas vid en betongvägg.) 2. Använd monteringsplattan horisontellt genom att rikta in markeringslinjen med ett snöre och ett vattenpass. 3. Använd en kärnbormaskin för att borra ett $\varnothing 70$ mm hål för rörledningen. 4. Ställ in i linje med hjälp av monteringsplåttens högra och vänstra sida. Den förlängda linjens skärningspunkt sammanfaller med hålets mitt. En annan metod är att placera tejp för mätning i det läge som anges i diagrammet ovan. Hålets mitt erhålls genom att måla avståndet på 115 mm för vänster resp. höger hål. 5. Borra hålet för röret antingen till höger eller till vänster. Hålet ska lita lätt mot utomhusdelen.

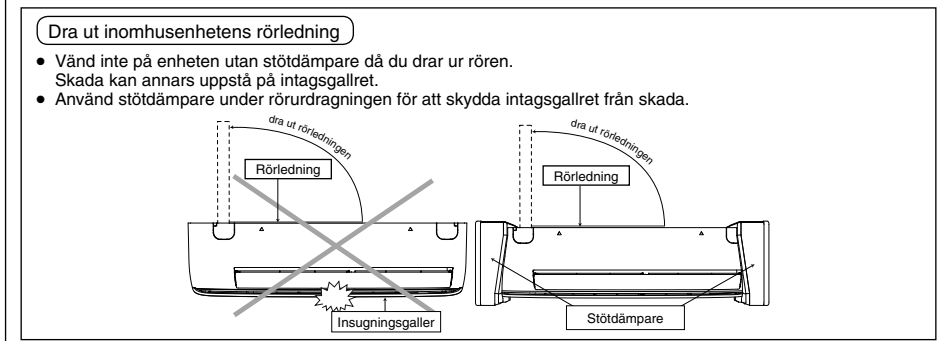
3 BORRA HÅL I VÄGGEN OCH MONTERA EN RÖRMUFF



5 ANSLUT ELKABELN TILL INOMHUSENHETEN



4 INSTALLATION AV INOMHUSENHET



1. RÖRDRAGNING FRÅN HÖGER/BAKSIDAN

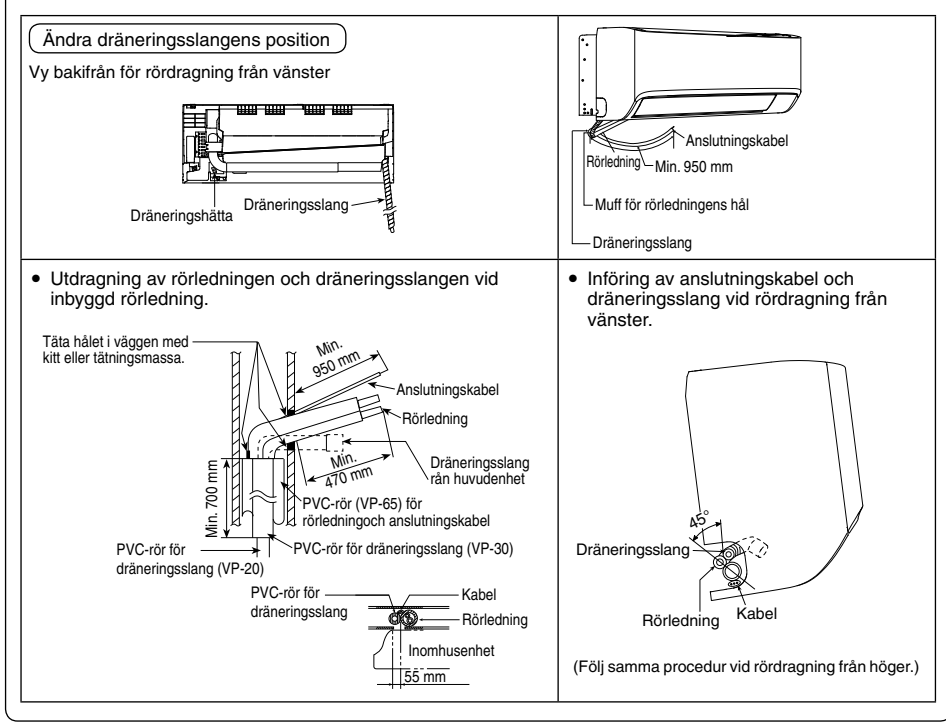
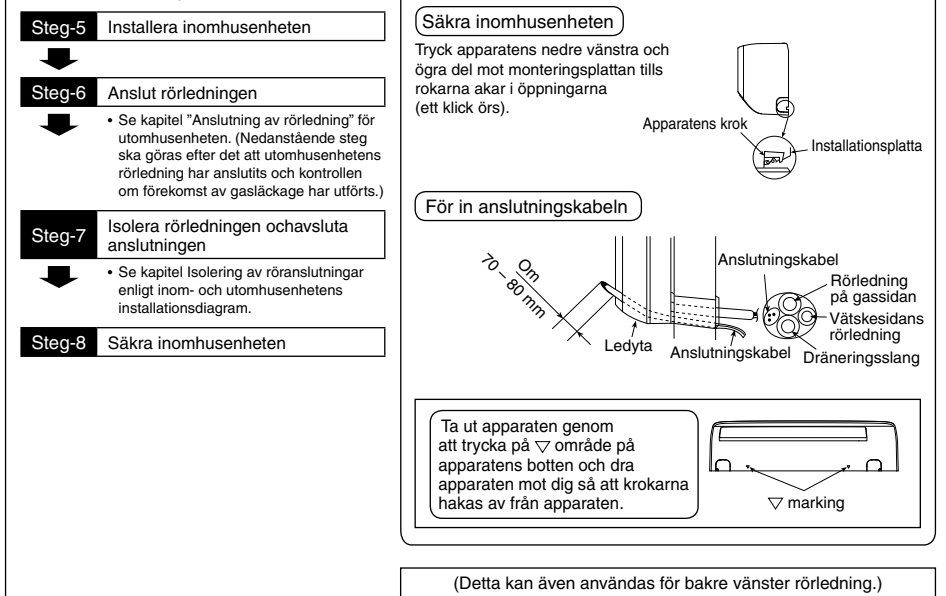
Steg-1 Dra ut inomhusenhetens rörledning
Steg-2 Installera inomhusenheten
Steg-3 Säkra inomhusenheten
Steg-4 För in anslutningskabeln

2. RÖRDRAGNING FRÅN HÖGER/HÖGER OCH BOTTEN

Steg-1 Dra ut inomhusenhetens rörledning
Steg-2 Installera inomhusenheten
Steg-3 För in anslutningskabeln
Steg-4 Säkra inomhusenheten

3. FÖR INBYGGD RÖRLEDNING

Steg-1 Ändra dräneringsslangens position
Steg-2 Böj den inbyggda rörledningen
Steg-3 Dra in anslutningskabeln inomhusenheten
Steg-4 Skär av och flänsa den inbyggda rörledningen
Steg-5 Installera inomhusenheten
Steg-6 Anslut rörledningen
Steg-7 Isolera rörledningen och chavsula anslutningen
Steg-8 Säkra inomhusenheten

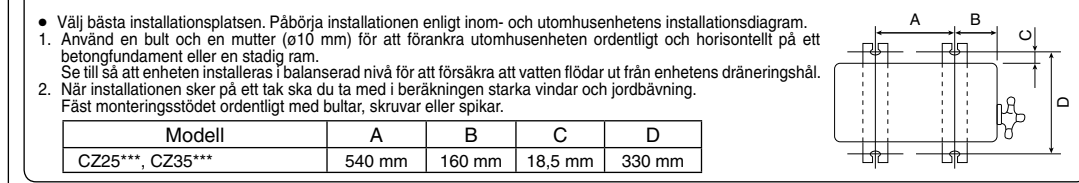


UTOMHUSENHET

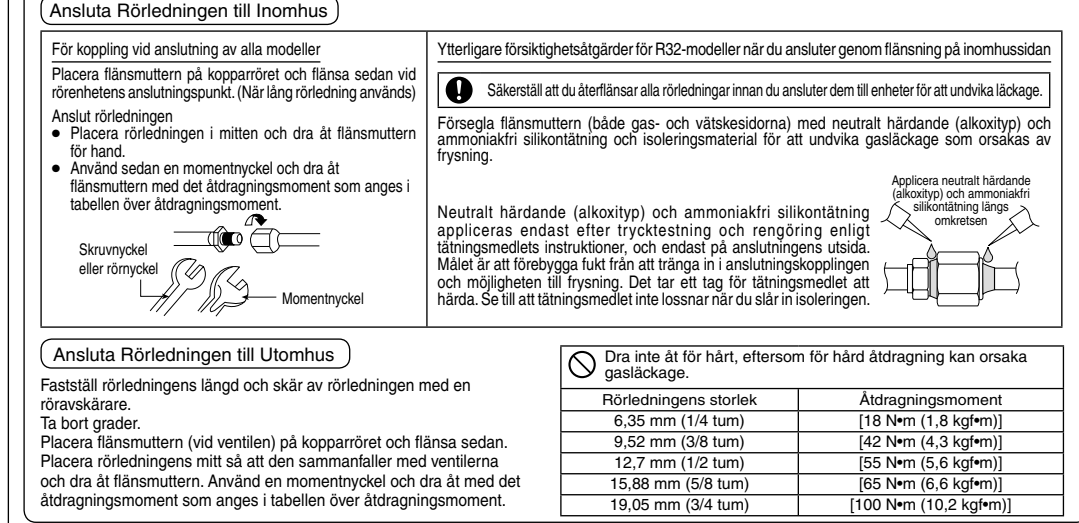
1 VÄLJ DEN BÄSTA PLATSEN

(Se kapitel "Välj den bästa platsen")

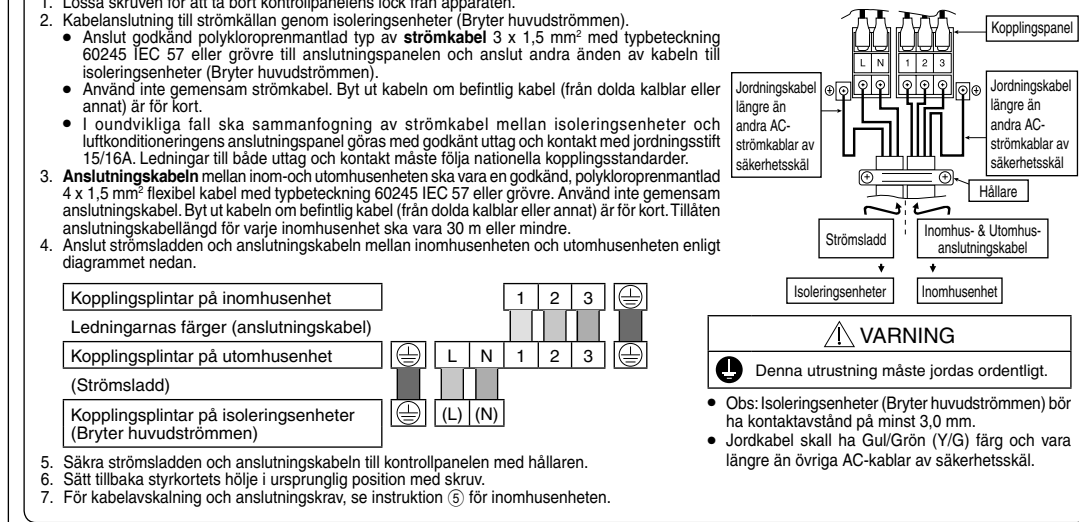
2 INSTALLERA UTOMHUSENHETEN



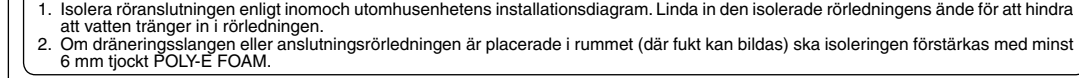
3 ANSLUT RÖRLEDNINGEN



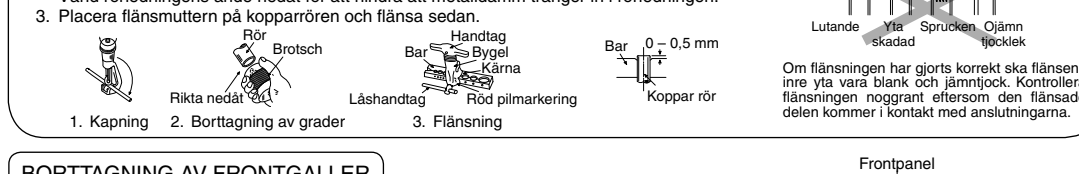
5 ANSLUT ELKABELN TILL UTOMHUSENHETEN



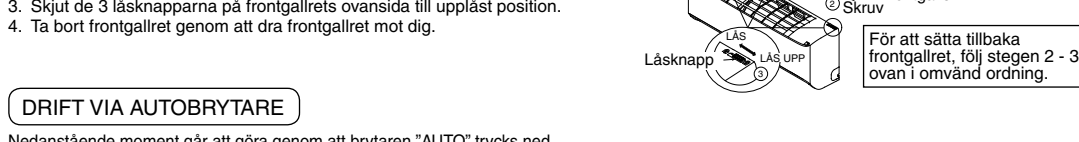
6 RÖRISOLERING



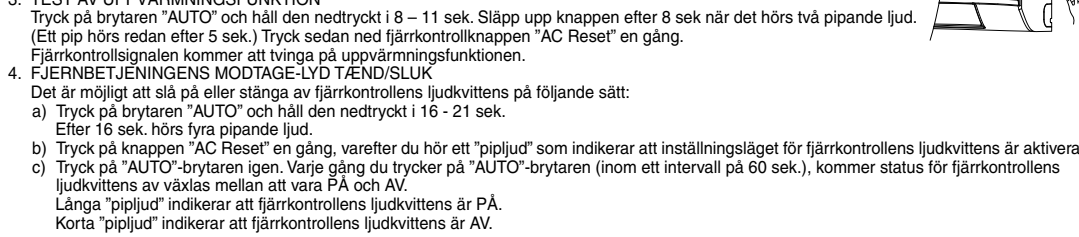
KAPNING OCH FLÄNSNING AV RÖRLEDNING



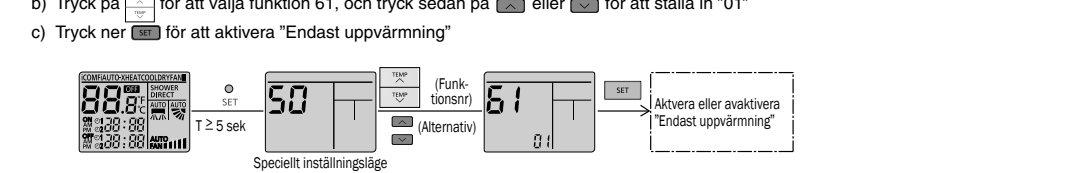
BORTTAGNING AV FRONTGALLER



DRIFT VIA AUTOBRYTARE

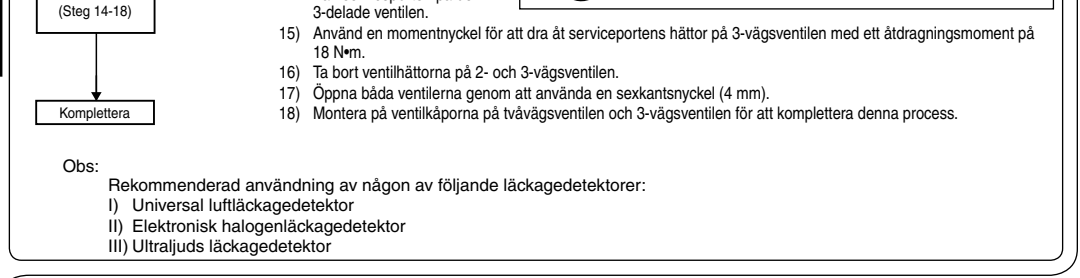
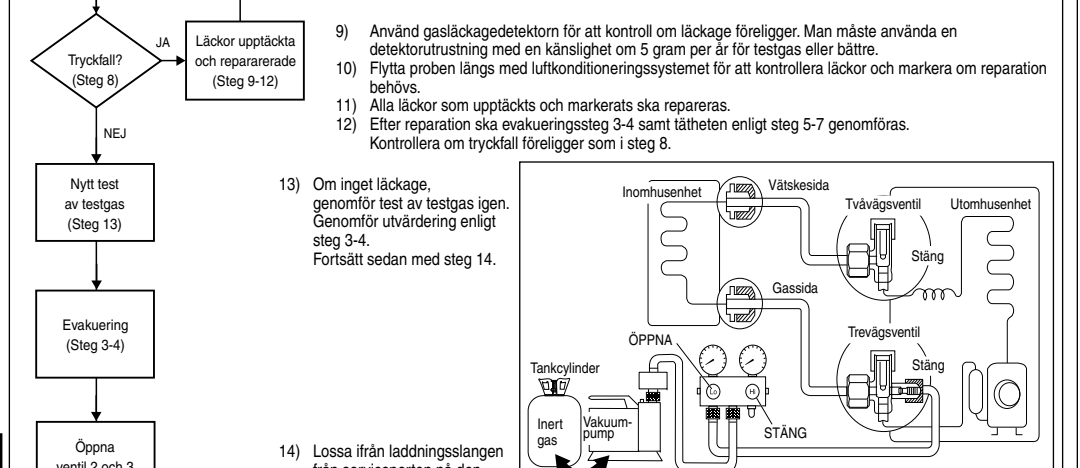
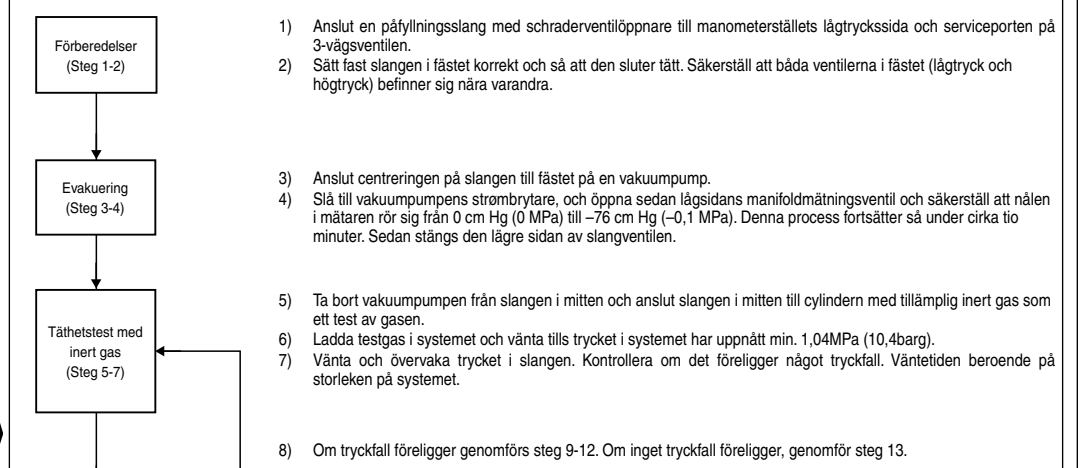
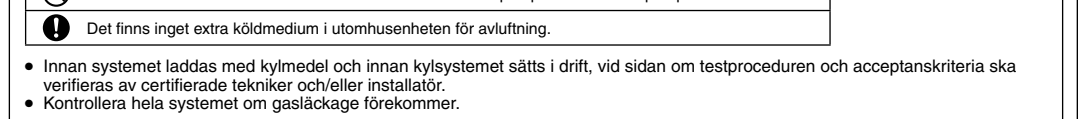


ENDAST UPPVÄRMNINGSFUNKTION

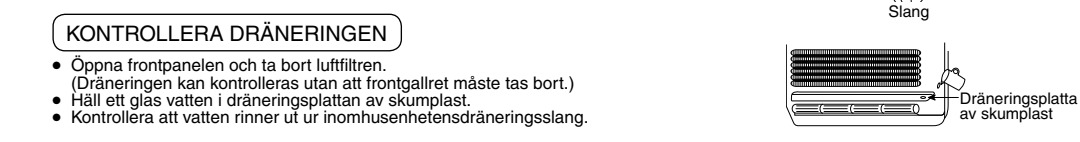


AVLUFTNINGSMETOD ÄR FÖRBUDEN FÖR R32-SYSTEM

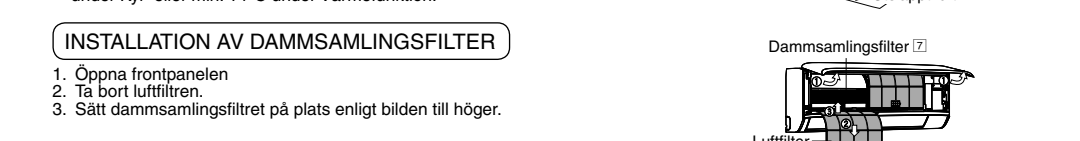
4 LUFTRÄNGSELTEST FÖR KYLSKÅPSSYSTEMET



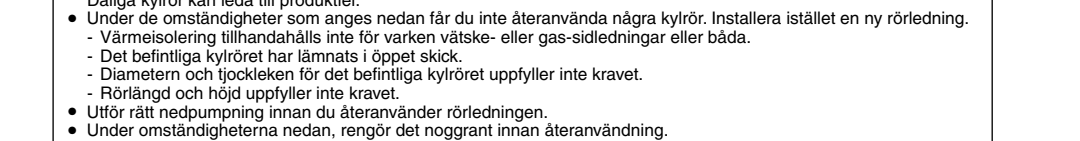
UTOMHUSENHETENS DRÄNERINGSKÄNN



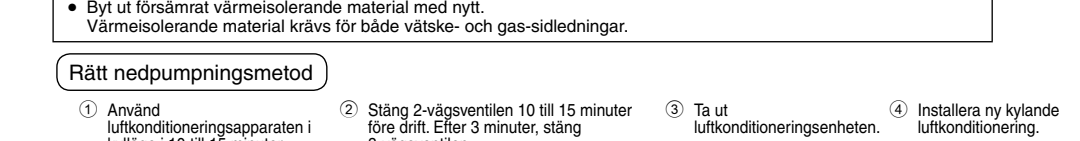
KONTROLLERA DRÄNERINGEN



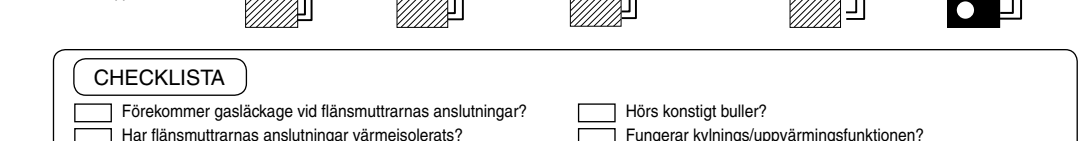
VÅRDERING AV PRESTANDA



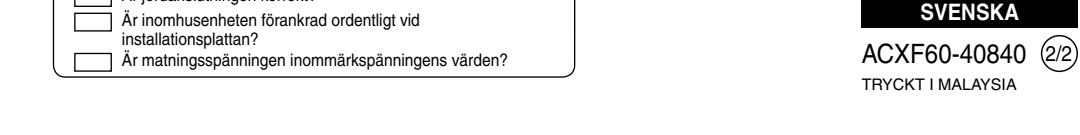
INSTALLATION AV DAMMSAMLINGSFILTER



FÖR ÅTERANVÄNDNING AV BEFINTLIGA KYLÖROR



Rätt nedpumpningsmetod



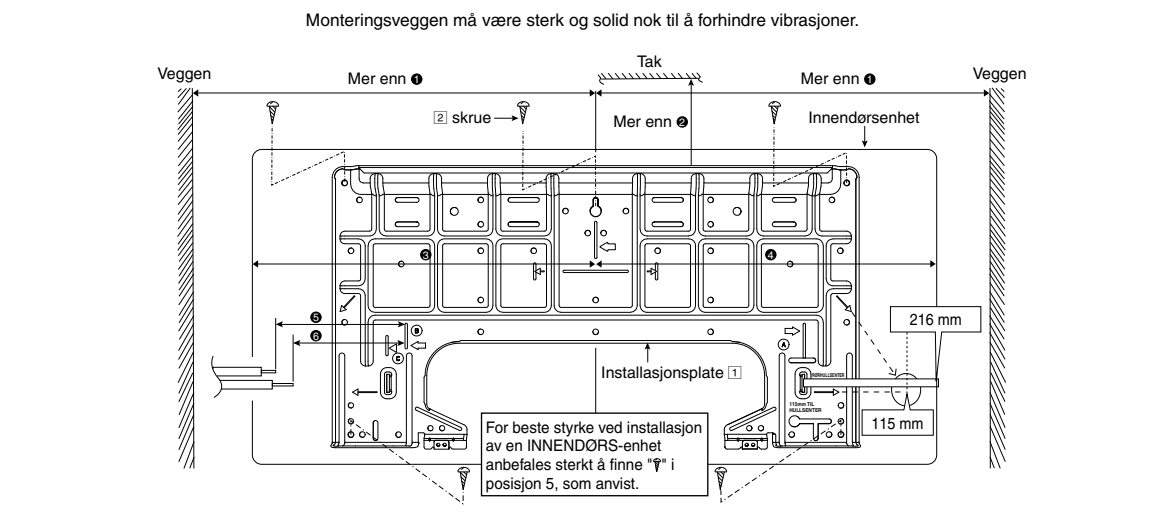
CHECKLISTA

INNENDØRSENHET

1 VELG BESTE PLASSERING

(Les avsnittet "Velg beste plassering")

2 SLIK FESTES INSTALLASJONSPLATEN

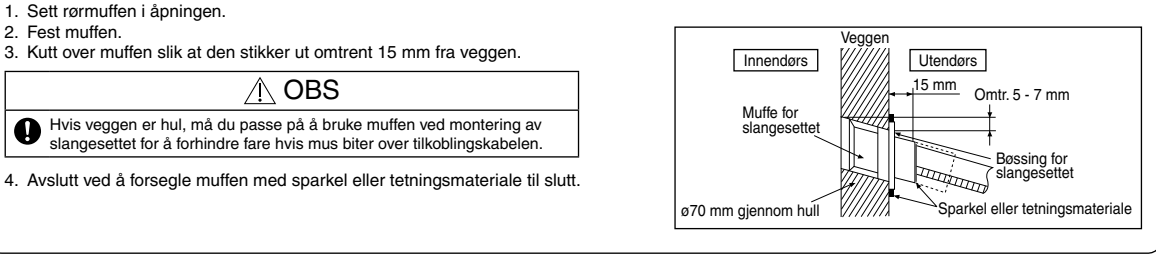


Modell	Dimensjon				
	●	●	●	●	●
CZ25***, CZ35***	465 mm	70 mm (+)	365 mm	415 mm	170 mm

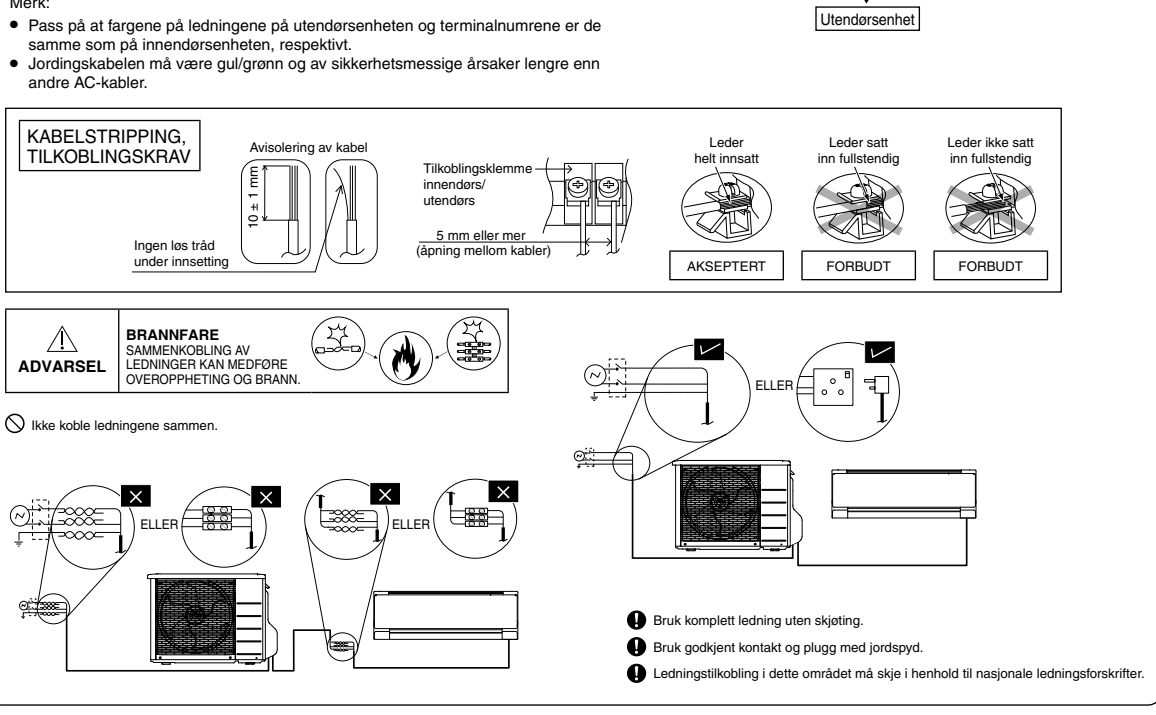
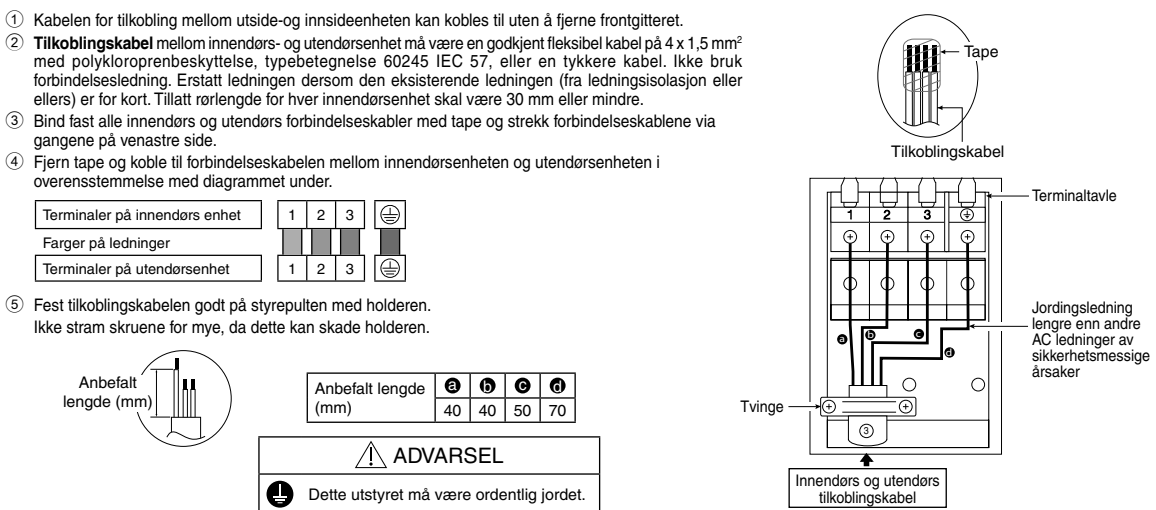
Senter på installasjonsplate bør være mer enn ① mm til høyre og venstre på veggen. Avstanden fra kanten på installasjonsplaten til taket må være mer enn ②. Fra installasjonsplaten senter til enhetens venstre side er ③. Fra installasjonsplaten senter til enhetens høyre side er ④. For røropplegg til venstre bør rørtilkobling for væske være omtrent ⑤ fra dannelsen. For røropplegg til venstre bør rørtilkobling for gass være omtrent ⑥ fra dannelsen. Monter installasjonsplaten på veggen med 5 skruer eller mer (minst 5 skruer). (Ved montering av enhet på murevegg, bør du vurdere å bruke forankringsbolter.)

- Monter alltid installasjonsplaten horisontalt ved å justere merkeringslinjen med tråden og bruke en nivååler.
- Drill hullet i rorplaten med en ø70 mm hullkjerne drill.
- Still på linje med bruk av installasjonsplaten venstre og høyre side.
- Krysspunktet til den fortløpende linjen er midt på hullet.
- Du kan også bruke målebånd og legge det i posisjonen vist på diagrammet ovenfor.
- Midten på hullet finner du ved å måle 115 mm fra henholdsvis venstre og høyre hull.
- Bør rørhullet enten til høyre eller venstre, og hullet bør være litt skråstilt mot utendørsisiden.

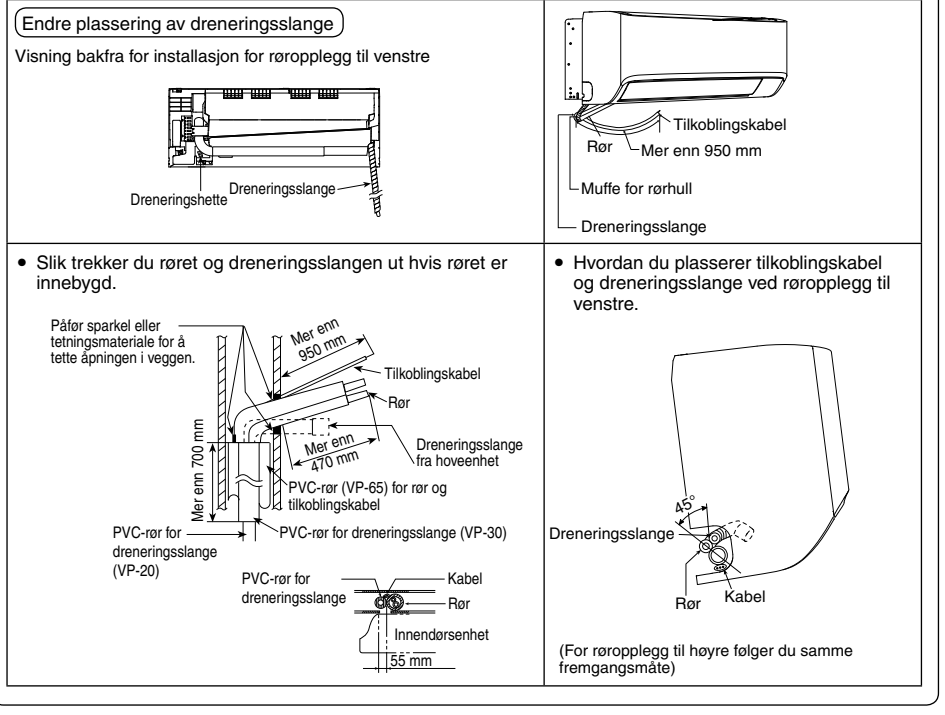
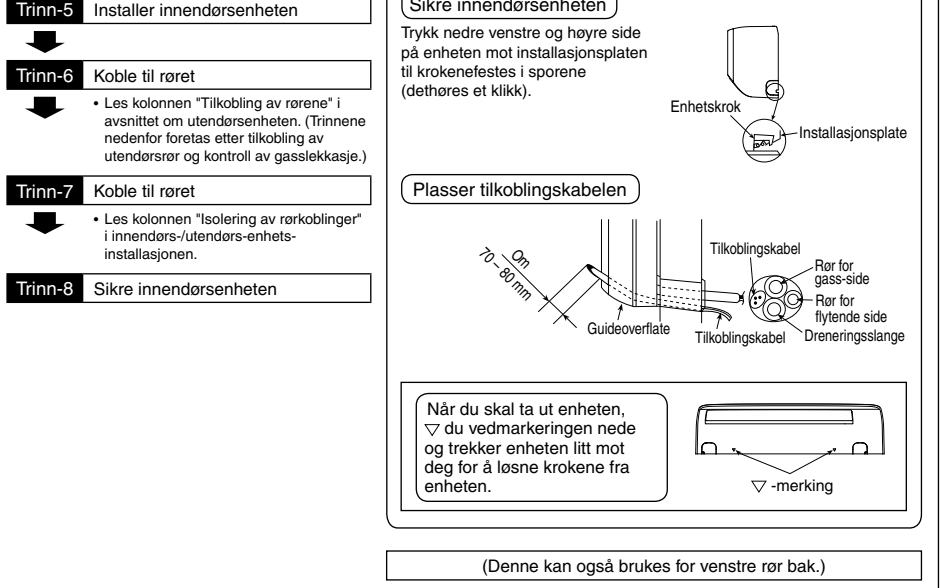
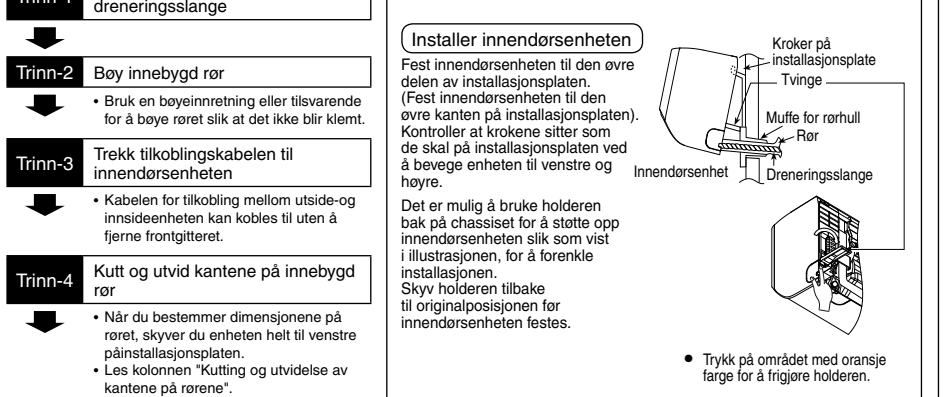
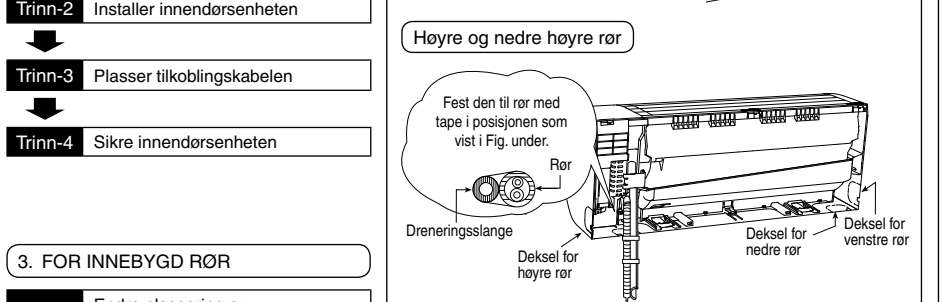
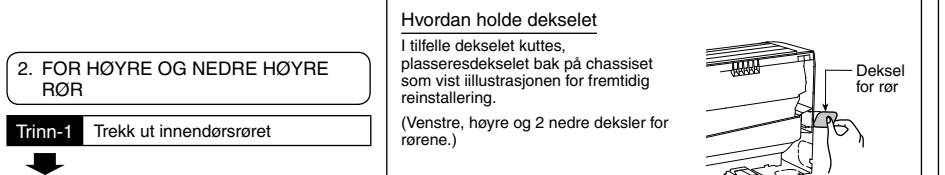
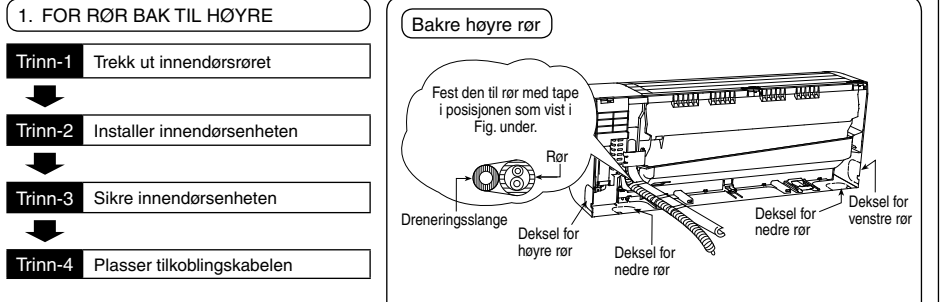
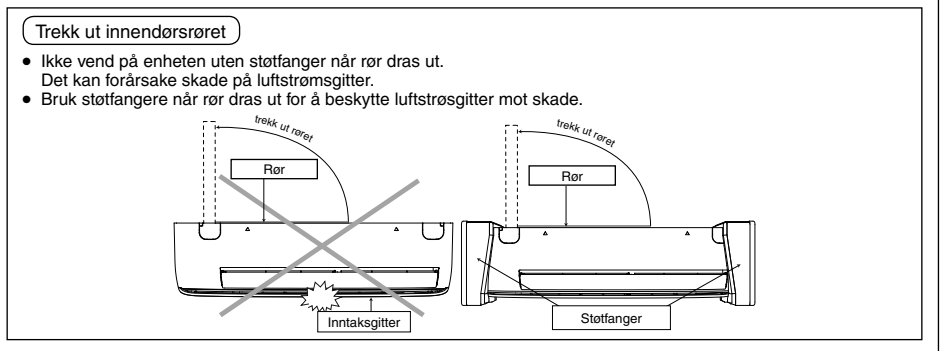
3 DRILL HULL I VEGGEN OG INSTALLER EN RØRMUFFE



5 TILKOBLING AV KABELN TIL INNENDØRSENHETEN



4 INSTALLASJON AV INNENDØRSENHET

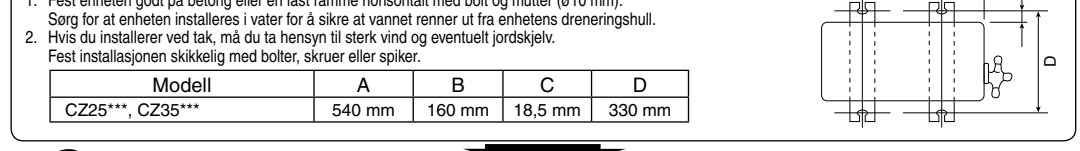


UTENDØRSENHET

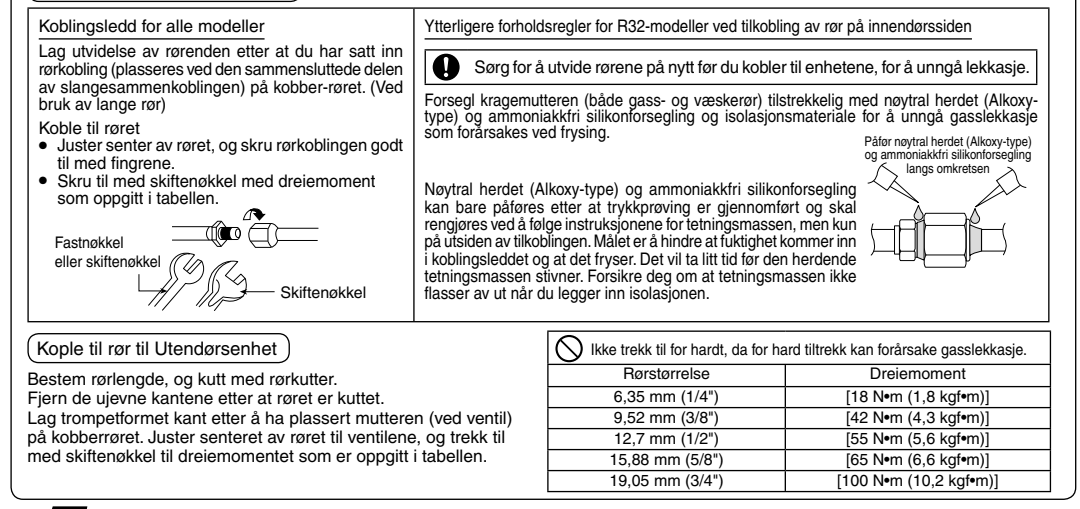
1 VELG BESTE PLASSERING

(Les avsnittet "Velg beste plassering")

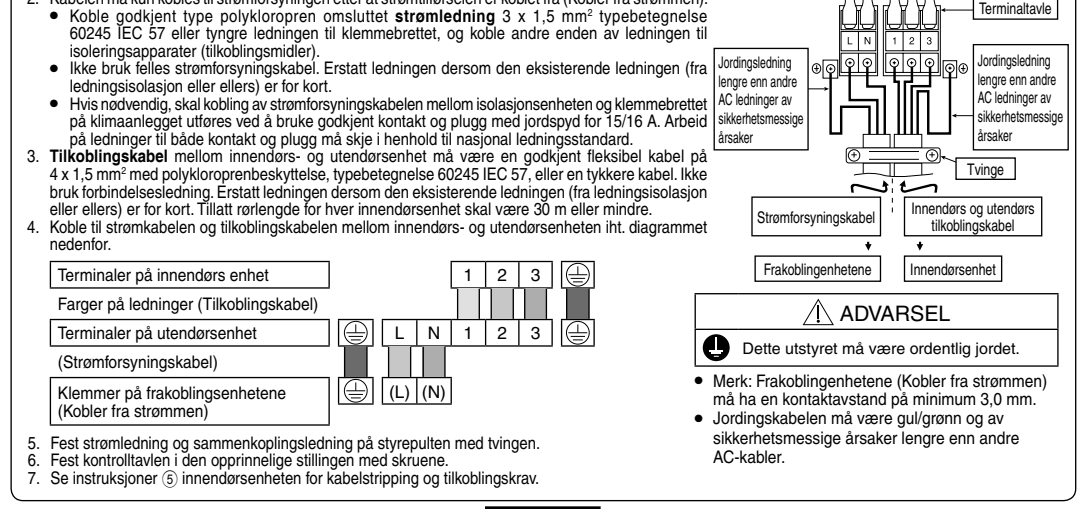
2 INSTALLER UTENDØRSENHETEN



3 KOBLE TIL RØRET

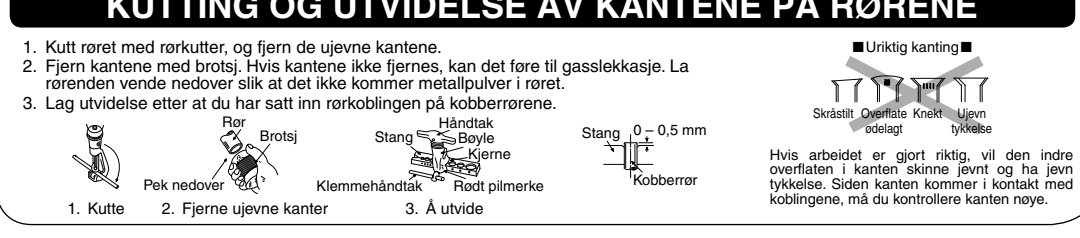


5 TILKOBLING AV KABELN TIL UTENDØRSENHETEN

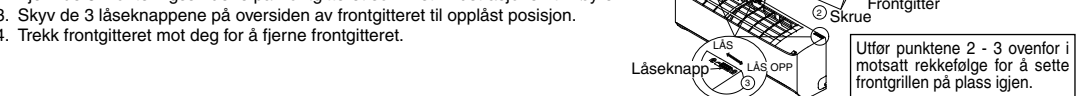


6 RØRISOLASJON

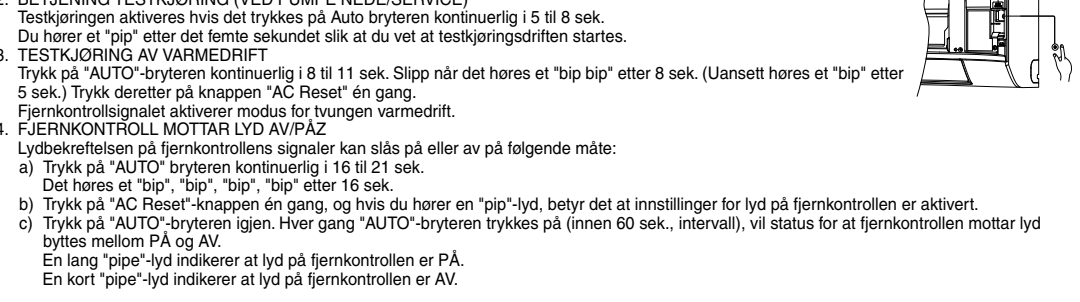
KUTTING OG UTVIDELSE AV KANTENE PÅ RØRENE



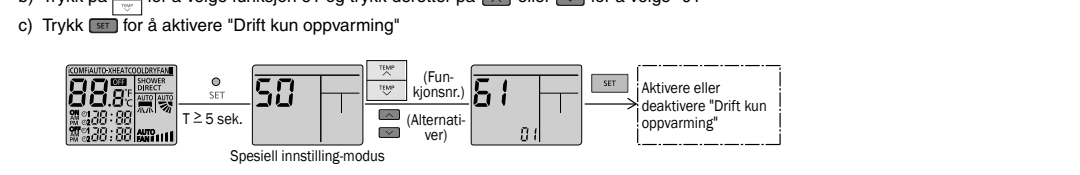
SLIK TAR DU UT FRONTGITTERET



BRUK AV AUTO-BRYTER



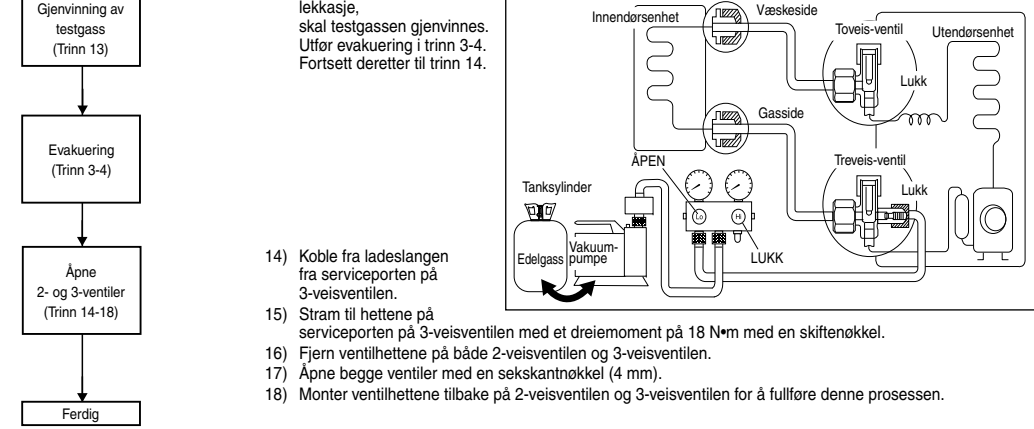
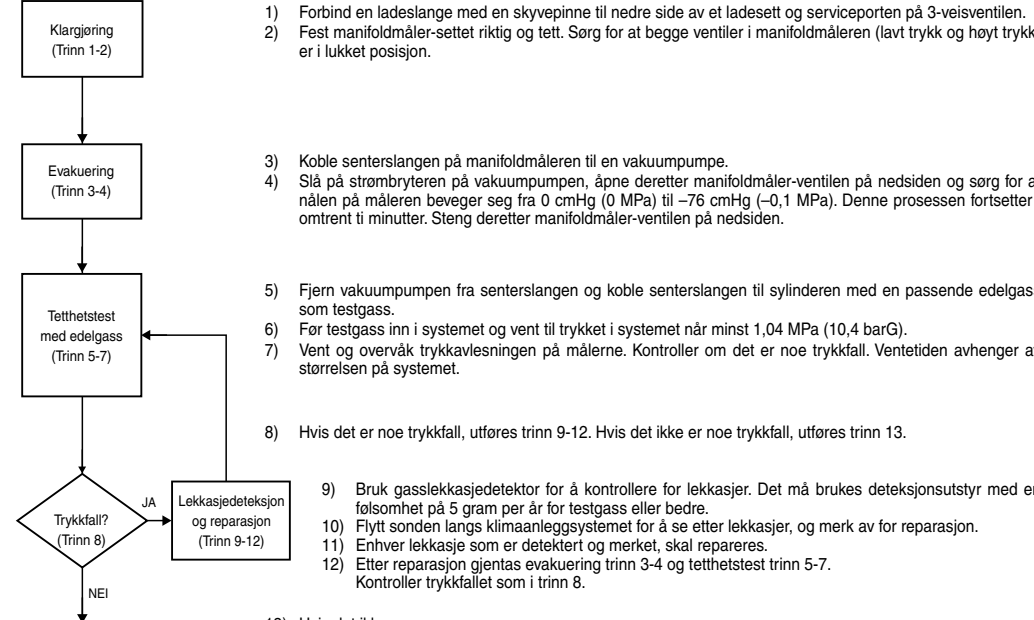
DRIFT KUN OPPVARMING



LUFTMETODEN ER FORBUDT FOR R32-SYSTEM

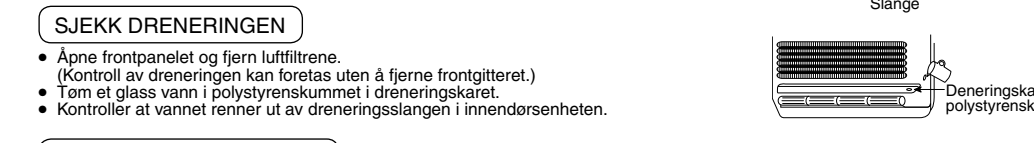
4 LUFTTETTHETSTEST PÅ KJØLESYSTEM

- Ikke tom luften med kjølemidler, men bruk en vakuumpumpe for å tømme installasjonen.
- Det er ikke noe ekstra kjølemiddel i utendørsenheten for tetning av luft.



- Merk:
- Anbefalt bruk av alle følgende lekkasjedetektorer,
 - I) Universell sniffer lekkasjedetektor
 - II) Elektronisk halogen lekkasjedetektor
 - III) Ultrasonisk lekkasjedetektor

AVLØPSVANN UTENDØRSENHET



EVALUERING AV YTTELSEN

- La enheten virke i kjøle-/oppvarmingsmodus i femten minutter eller mer.
- Mål temperaturen på den luften som tas inn og den som slipper ut.
- Kontroller at forskjellen mellom temperaturen på luften inn og luften ut er mer enn 8 °C under kjøleoperasjon eller mer enn 14 °C under oppvarmingsoperasjon.

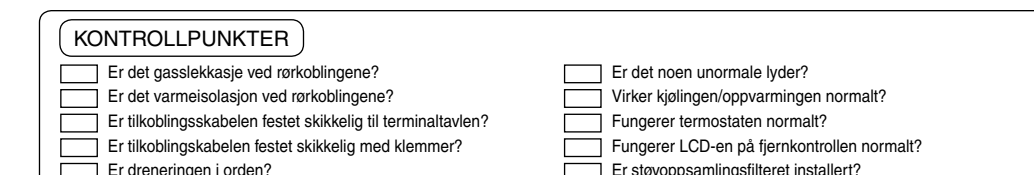
INSTALLASJON AV STØVOPPSAMLINGSFILTER

- Lukk opp frontpanelet.
- Fjern luftfilterne.
- Plasser støvoppsamlingsfilteret på riktig sted, som vist i illustrasjonen til høyre.

VED GJENBRUK AV EKISTERENDE KJØLEMIDDELRØR

- Legg merke til følgende for å avgjøre gjenbruk av eksisterende røropplegg for kjølemiddel.
- Dårlig røropplegg for kjølemiddel kan medføre feil i produktet.
- I tilfelle som er oppført nedenfor, må røropplegg for kjølemiddel ikke gjenbrukes. I stedet må det sørges for installasjon av nye rør.
 - Det er ikke montert noe varmeisolasjon verken i rør for væske-siden eller for gass-siden eller i begge.
 - De eksisterende kjølemiddelrørene er fortløp åpen tilstand.
 - Diametern og tykkelsen på det eksisterende røropplegget for kjølemiddel tilfredsstiller ikke kravene.
 - Rørlengden og stigningen tilsvarer ikke kravene.
 - Gjennomløp korrekt nedpumpling for rørene gjenbrukes.
 - I tilfelle som er oppført nedenfor, utføres grunnlag for gjenbruk
 - Nedpumplingsoperasjonen kan ikke utføres for det eksisterende klimaanlegget.
 - Kompressoren har en feilhistorikk.
 - Oljefargen er mørkere. (ASTM 4.0 og nyere).
 - Det eksisterende klimaanlegget er av typen varmepumpe med gass/olje.
 - Ikke gjenbruk krager slik at gasslekkasje unngås. Sørg for å installere ny krage.
 - Hvis det finnes en sveisedel på det eksisterende røret, utføres en gasslekkasjekontroll på den sveisede delen.
 - Erstatt fornyede varmeisolasjonsmaterialer med nye.
 - Varmeisolasjonsmaterialer er nødvendige for rør både på væskesiden og på gass-siden.

Riktig prosedyre for å kjøre ned pumpen



KONTROLLPUNKTER

