

# Air to Water Heat Pump

## SUZ-SWM-VA series

### INSTALLATION MANUAL

For safe and correct use, read this manual and the indoor unit installation manual thoroughly before installing the outdoor unit. English is original. The other languages versions are translation of the original.

**FOR INSTALLER****English**

### INSTALLATIONSHANDBUCH

Aus Sicherheitsgründen und zur richtigen Verwendung vor der Installation der Außenanlage das vorliegende Handbuch und die Installationsanleitung der Innenanlage gründlich durchlesen. Das Original ist in Englisch. Die anderen Sprachversionen sind vom Original übersetzt.

**FÜR INSTALLATEURE****Deutsch**

### MANUEL D'INSTALLATION

Avant d'installer l'appareil extérieur, lire attentivement ce manuel, ainsi que le manuel d'installation de l'appareil intérieur pour une utilisation sûre et correcte. L'anglais est l'original. Les versions fournies dans d'autres langues sont des traductions de l'original.

**POUR L'INSTALLATEUR****Français**

### INSTALLATIEHANDLEIDING

Lees voor een veilig en juist gebruik deze handleiding en de installatiehandleiding van het binnenapparaat zorgvuldig door voordat u met het installeren van het buitenapparaat begint. Het Engels is het origineel. De andere taalversies zijn vertalingen van het origineel.

**VOOR DE INSTALLATEUR****Nederlands**

### MANUAL DE INSTALACIÓN

Para un uso correcto y seguro, lea detalladamente este manual y el manual de instalación de la unidad interior antes de instalar la unidad exterior. El idioma original del documento es el inglés. Las versiones en los demás idiomas son traducciones del original.

**PARA EL INSTALADOR****Español**

### MANUALE DI INSTALLAZIONE

Per un uso sicuro e corretto, leggere attentamente il presente manuale ed il manuale d'installazione dell'unità interna prima di installare l'unità esterna. Il testo originale è redatto in lingua Inglese. Le altre versioni linguistiche rappresentano traduzioni dell'originale.

**PER L'INSTALLATORE****Italiano**

### ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΙΩΝ ΕΓΚΑΤΑΣΤΑΣΗΣ

Για ασφαλής και ασφαλή χρήση, διαβάστε προσεκτικά αυτό το εγχειρίδιο καθώς και το εγχειρίδιο εγκατάστασης της εσωτερικής μονάδας, προτού εγκαταστήσετε την εξωτερική μονάδα. Η γλώσσα του πρωτοτύπου είναι η αγγλική. Οι εκδόσεις άλλων γλωσσών είναι μεταφράσεις του πρωτοτύπου.

**ΓΙΑ ΑΥΤΟΝ ΠΟΥ ΚΑΝΕΙ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ****Ελληνικά**

### MANUAL DE INSTALAÇÃO

Para uma utilização segura e correcta, leia atentamente este manual e o manual de instalação da unidade interior antes de instalar a unidade exterior. O idioma original é o inglês. As versões em outros idiomas são traduções do idioma original.

**PARA O INSTALADOR****Português**

### INSTALLATIONS MANUAL

Læs af sikkerhedshensyn denne manual samt manualen til installation af indendørsenheden grundigt, før du installerer udendørsenheden. Engelsk er originalsproget. De andre sprogversioner er oversættelser af originalen.

**TIL INSTALLATØREN****Dansk**

### INSTALLATIONS MANUAL

Läs bruksanvisningen och inomhusenhetens installationshandbok noga innan du installerar utomhusenhet för säker och korrekt användning. Engelska är originalspråket. De övriga språkversionerna är översättningar av originalet.

**FÖR INSTALLATÖREN****Svenska**

### РЪКОВОДСТВО ЗА МОНТАЖ

За безопасно и правилно използване, прочетете внимателно това ръководство и ръководството за монтаж на вътрешното тяло, преди да монтирате външното тяло. Версията на английски език е оригинал. Версиите на други езици са превод от оригинала.

**ЗА ИНСТАЛАТОРА****Българск**

### INSTRUKCJA MONTAŻU

Aby zapewnić bezpieczne i prawidłowe korzystanie z urządzenia, przed montażem jednostki zewnętrznej należy dokładnie zapoznać się z treścią niniejszej instrukcji oraz instrukcją montażu jednostki wewnętrznej. Oryginalną instrukcję sporządzono w języku angielskim. Pozostałe wersje językowe zostały przetłumaczone z oryginału.

**DLA INSTALATORA****Polski**

### INSTALLASJONSHÅNDBOK

For å sikre trygg og riktig bruk skal denne håndboken samt installasjonshåndboken for innendørsenheten leses grundig igjennom før enheten installeres. Engelsk er originalspråket. De andre språkversjonene er oversettelser av originalen.

**FOR MONTØR****Norsk**

### ASENNUSOPAS

Turvallisen ja asianmukaisen käytön varmistamiseksi lue tämä opas sekä sisäyksikön asennusopas huolellisesti ennen ulkoyksikön asentamista. Alkuperäiskieli on englanti. Muut kieliversiot ovat alkuperäisen käännöksiä.

**ASENTAJALLE****Suomi**

### NÁVOD K MONTÁŽI

Kvůli zajištění bezpečného a správného používání si před montáží vnější jednotky pečlivě přečtěte tento návod i návod k montáži vnitřní jednotky. Verze v angličtině je originál. Ostatní jazykové verze jsou překladem originálu.

**PRO MONTÉRA****Čeština**

### NÁVOD NA INŠTALÁCIU

V záujme bezpečného a správného používania si pred inštaláciou exteriérovej jednotky pozorne prečítajte tento návod a návod na inštaláciu interiérovej jednotky. Pôvodným jazykom je angličtina. Ostatné jazykové verzie sú prekladom originálu.

**PRE MONTÉRA****Slovenčin**

### TELEPÍTÉSI KÉZIKÖNYV

A biztonságos és helyes használat érdekében alaposan olvassa el ezt a használati kézikönyvet és a beltéri egység telepítési kézikönyvét a kültéri egység felszerelése előtt. A dokumentum eredeti nyelve az angol. A más nyelvű változatok az angol eredeti fordításai.

**A TELEPÍTŐ RÉSZÉRE****Magyar**

### NAMESTITVENI PRIROČNIK

Za varno in pravilno uporabo natančno preberite ta navodila za uporabo in namestitveni priročnik za notranjo enoto, preden namestite zunanjo enoto. Izvirni jezik je angleščina. Različice v drugih jeziki so prevodi izvirnika.

**ZA MONTERJA****Slovenščina**

### MANUAL DE INSTALARE

Pentru a utiliza aparatul corect și în siguranță, citiți în întregime acest manual, precum și manualul de instalare al unității interioare înainte de a instala unitatea exterioară. Originalul este în limba engleză. Versiunile în alte limbi reprezintă traducerea originalului.

**PENTRU INSTALATOR****Română**

### PAIGALDUSJUHEND

Ohutu ja õige kasutuse tagamiseks lugege see juhend ja siseseadme paigaldusjuhend enne välisseadme paigaldamist põhjalikult läbi. Originaal on inglise keeles. Teistes keeltes versioonid on originaali tõlked.

**PAIGALDAJALE****Eesti**

### MONTĀŽAS ROKASGRĀMATA

Lai nodrošinātu pareizu un drošu iekārtas lietošanu, pirms ārējās iekārtas uzstādīšanas rūpīgi izlasiet šo rokasgrāmatu un iekšējās iekārtas montāžas rokasgrāmatu. Dokumenta oriģināls ir angļu valodā. Pārējo valodu versijas ir oriģināla tulkojumi.

**UZSTĀDĪŠANAS SPECIĀLISTAM****Latviski**

### MONTAVIMO VADOVAS

Kad saugiai ir tinkamai naudotumėte, prieš montuodami lauko įrenginį perskaitykite šį vadovą ir vidinio įrenginio montavimo vadovą. Anglų yra originali kalba. Kitų kalbų versijos yra originalios kalbos vertimas.

**SKIRTA MONTUOTOJUI****Lietuviškai**

### PRIRUČNIK ZA POSTAVLJANJE

Radi sigurne i pravilne uporabe pročitajte pažljivo ovaj priručnik i priručnik za postavljanje unutarnje jedinice prije postavljanja vanjske jedinice. Izvorni tekst je na engleskom jeziku. Ostale jezične varijante predstavljaju prijevod tog teksta.

**ZA INSTALATERA****Hrvatski**

### UPUTSTVO ZA UGRADNJU

Radi bezbedne i ispravne upotrebe, detaljno pročitajte ovo uputstvo i uputstvo za ugradnju unutrašnje jedinice pre nego što ugradite spoljnu jedinicu. Engleski je original. Verzije na drugim jezicima su prevod originala.

**ZA INSTALATERA****Srpski**



# Manual Download



<http://www.mitsubishielectric.com/ldg/ibim/>

- en** Go to the above website to download manuals, select model name, then choose language.
- de** Besuchen Sie die oben stehende Website, um Anleitungen herunterzuladen, wählen Sie den Modellnamen und dann die Sprache aus.
- fr** Rendez-vous sur le site Web ci-dessus pour télécharger les manuels, sélectionnez le nom de modèle puis choisissez la langue.
- nl** Ga naar de bovenstaande website om handleidingen te downloaden, de modelnaam te selecteren en vervolgens de taal te kiezen.
- es** Visite el sitio web anterior para descargar manuales, seleccione el nombre del modelo y luego elija el idioma.
- it** Andare sul sito web indicato sopra per scaricare i manuali, selezionare il nome del modello e scegliere la lingua.
- el** Μεταβείτε στον παραπάνω ιστότοπο για να κατεβάσετε εγχειρίδια. Επιλέξτε το όνομα του μοντέλου και, στη συνέχεια, τη γλώσσα.
- pt** Aceda ao site Web acima indicado para descarregar manuais, seleccione o nome do modelo e, em seguida, escolha o idioma.
- da** Gå til ovenstående websted for at downloade manualer og vælg modelnavn, og vælg derefter sprog.
- sv** Gå till ovanstående webbplats för att ladda ner anvisningar, välj modellnamn och välj sedan språk.
- tr** Kılavuzları indirmek için yukarıdaki web sitesine gidin, model adını ve ardından dili seçin.
- ru** Чтобы загрузить руководства, перейдите на указанный выше веб-сайт; выберите название модели, а затем язык.
- uk** Щоб завантажити керівництва, перейдіть на зазначений вище веб-сайт; виберіть назву моделі, а потім мову.
- bg** Посетете горепосочения уебсайт, за да изтеглите ръководства, като изберете име на модел и след това – език.
- pl** Odwiedź powyższą stronę internetową, aby pobrać instrukcje, wybierz nazwę modelu, a następnie język.
- no** Gå til nettstedet over for å laste ned håndbøker og velg modellnavn, og velg deretter språk.
- fi** Mene yllä mainitulle verkkosivulle ladataksesi oppaat, valitse mallin nimi ja valitse sitten kieli.
- cs** Příručky naleznete ke stažení na internetové stránce zmíněné výše poté, co zvolíte model a jazyk.
- sk** Na webovej stránke vyššie si môžete stiahnuť návody. Vyberte názov modelu a zvolte požadovaný jazyk.
- hu** A kézikönyvek letöltéséhez látogasson el a fenti weboldalra, válassza ki a modell nevét, majd válasszon nyelvet.
- sl** Obiščite zgornjo spletno stran za prenos priročnikov; izberite ime modela, nato izberite jezik.
- ro** Accesați site-ul web de mai sus pentru a descărca manualele, selectați denumirea modelului, apoi alegeți limba.
- et** Kasutusjuhendite allalaadimiseks minge ülaltoodud veebilehele, valige mudeli nimi ja seejärel keel.
- lv** Dodieties uz iepriekš norādīto tīmekļa vietni, lai lejupielādētu rokasgrāmatas; tad izvēlieties modeļa nosaukumu un valodu.
- lt** Norėdami atsisiųsti vadovus, apsilankykite pirmiau nurodytoje žiniatinklio svetainėje, pasirinkite modelio pavadinimą, tada – kalbą.
- hr** Kako biste preuzeli priručnike, idite na gore navedeno web-mjesto, odaberite naziv modela, a potom odaberite jezik.
- sr** Idite na gore navedenu veb stranicu da biste preuzeli uputstva, izaberite ime modela, a zatim izaberite jezik.

# Contents

For safe and correct use, read this manual and the indoor unit installation manual thoroughly before installing the outdoor unit. English is original. The other languages versions are translation of the original.

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**Note: This symbol mark is for EU countries only.**  
**This symbol mark is according to the directive 2012/19/EU Article 14 Information for users and Annex IX.**  
 Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste. Please, dispose of this equipment at your local community waste collection/recycling centre.  
 In the European Union there are separate collection systems for used electrical and electronic product.  
 Please, help us to conserve the environment we live in!

## 1. The following should always be observed for safety

- Please provide an exclusive circuit for the air to water heat pump and do not connect other electrical appliances to it.
- Be sure to read “The following should always be observed for safety” before installing the air to water heat pump.
- Be sure to observe the cautions specified here as they include important items related to safety.
- The indications and meanings are as follows.

**Warning:**  
 Could lead to death, serious injury, etc.

**Caution:**  
 Could lead to serious injury in particular environments when operated incorrectly.

- After reading this manual, be sure to keep it together with the instruction manual in a handy place on the customer’s site.

⚡ : Indicates a part which must be grounded.

**Warning:**  
 Carefully read the labels affixed to the main unit.  
 Ⓞ : Indicates warnings and cautions when using R32 refrigerant.

### MEANINGS OF SYMBOLS DISPLAYED ON THE UNIT

	<b>WARNING</b> (Risk of fire)	This mark is for R32 refrigerant only. Refrigerant type is written on nameplate of outdoor unit. In case that refrigerant type is R32, this unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
		Read the OPERATION MANUAL carefully before operation.
		Service personnel are required to carefully read the OPERATION MANUAL and INSTALLATION MANUAL before operation.
		Further information is available in the OPERATION MANUAL, INSTALLATION MANUAL, and the like.

- Warning:**
- Do not install it by yourself (customer). Incomplete installation could cause injury due to fire, electric shock, the unit falling or leakage of water. Consult the dealer from whom you purchased the unit or special installer.
  - Servicing shall be performed only as recommended by the manufacturer.
  - For installation and relocation work, follow the instructions in the Installation Manual and use tools and pipe components specifically made for use with R32 refrigerant. If pipe components not designed for R32 refrigerant are used and the unit is not installed correctly, the pipes may burst and cause damage or injuries. In addition, water leakage, electric shock, or fire may result.
  - Do not alter the unit. It may cause fire, electric shock, injury or water leakage.
  - This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
  - Install the unit securely in a place which can bear the weight of the unit. When installed in an insufficient strong place, the unit could fall causing injured.
  - Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal board connecting sections so the stress of the wires is not applied to the sections. Incomplete connecting and fixing could cause fire.
  - Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet. It could cause a fire or an electric shock due to defective contact, defective insulation, exceeding the permissible current, etc.
  - Check that the refrigerant gas does not leak after installation has completed.
  - Perform the installation securely referring to the installation manual. Incomplete installation could cause a personal injury due to fire, electric shock, the unit falling or leakage of water.
  - Use only specified cables for wiring. The wiring connections must be made securely with no tension applied on the terminal connections. Also, never splice the cables for wiring (unless otherwise indicated in this document). Failure to observe these instructions may result in overheating or a fire.
  - If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazard.
  - The appliance shall be installed in accordance with national wiring regulations.
  - Perform electrical work according to the installation manual and be sure to use an exclusive circuit. If the capacity of the power circuit is insufficient or there is incomplete electrical work, it could result in a fire or an electric shock.
  - Attach the electrical part cover to the indoor unit and the service panel to the outdoor unit securely. If the electrical part cover in the indoor unit and/or the service panel in the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust, water, etc.

- Be sure to use the part provided or specified parts for the installation work. The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.
- Ventilate the room if refrigerant leaks during operation. If the refrigerant comes in contact with a flame, poisonous gases will be released.
- When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes. The compressor may burst if air etc. get into it.
- When installing or relocating, or servicing the air to water heat pump, use only the specified refrigerant (R32) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant line, and may result in an explosion and other hazards. The use of any refrigerant other than that specified for the system will cause mechanical failure or system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- Pipe-work shall be protected from physical damage.
- The installation of pipe-work shall be kept to a minimum.
- Compliance with national gas regulations shall be observed.
- Keep any required ventilation openings clear of obstruction.
- Do not use low temperature solder alloy in case of brazing the refrigerant pipes.
- When performing brazing work, be sure to ventilate the room sufficiently. Make sure that there are no hazardous or flammable materials nearby. When performing the work in a closed room, small room, or similar location, make sure that there are no refrigerant leaks before performing the work. If refrigerant leaks and accumulates, it may ignite or poisonous gases may be released.
- Do not add the refrigerant more than maximum amount each outdoor units. If it exceeds the maximum amount of refrigerant, it could result in a fire when the refrigerant leaks.
- Keep gas-burning appliances, electric heaters, and other fire sources (ignition sources) away from the location where installation, repair, and other air to water heat pump work will be performed. If refrigerant comes into contact with a flame, poisonous gases will be released.
- Do not smoke during work and transportation.

en

# 1. The following should always be observed for safety

**⚠ Caution:**

- Perform grounding.  
Do not connect the ground wire to a gas pipe, water pipe arrester or telephone ground wire. Defective grounding could cause an electric shock.
- Do not install the unit in a place where an inflammable gas leaks.  
If gas leaks and accumulates in the area surrounding the unit, it could cause an explosion.
- Install a ground leakage breaker depending on the installation place (where it is humid).

- If a ground leakage breaker is not installed, it could cause an electric shock.
- Perform the drainage/piping work securely according to the installation manual.  
If there is a defect in the drainage/piping work, water could drop from the unit and household goods could be wet and damaged.
- Fasten a flare nut with a torque wrench as specified in this manual.  
When fastened too tight, a flare nut may broken after a long period and cause a leakage of refrigerant.

## 2. Selecting the installation location

en

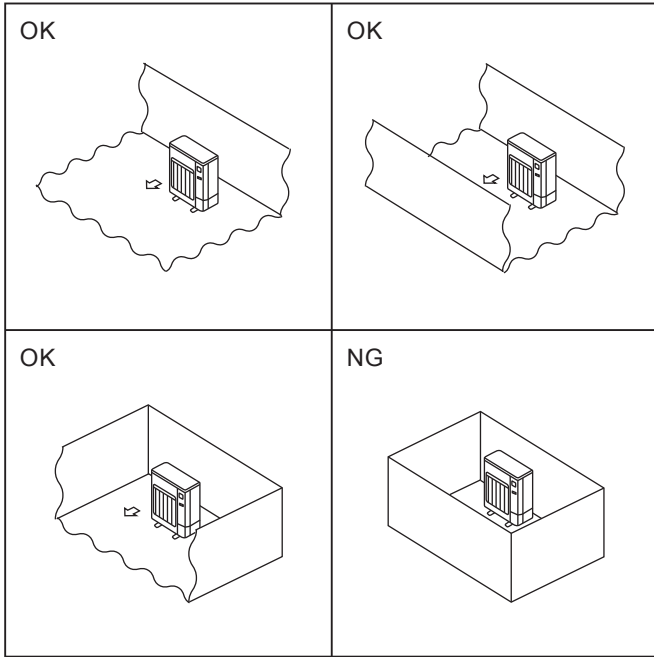


Fig. 2-1

### 2.1. Outdoor unit

- R32 is heavier than air—as well as other refrigerants—so tends to accumulate at the base (in the vicinity of the floor). If R32 accumulates around base, it may reach a flammable concentration in case room is small. To avoid ignition, maintaining a safe work environment is required by ensuring appropriate ventilation. If a refrigerant leak is confirmed in a room or an area where there is insufficient ventilation, refrain from using of flames until the work environment can be improved by ensuring appropriate ventilation.
- Where it is not exposed to strong wind.
- Where airflow is good and dustless.
- Where it is not exposed to rain and direct sunshine.
- Where neighbours are not annoyed by operation sound or hot air.
- Where rigid wall or support is available to prevent the increase of operation sound or vibration.
- Where there is no risk of combustible gas leakage.
- When installing the unit at a high level, be sure to fix the unit legs.
- Where it is at least 3 m away from the antenna of TV set or radio. (Otherwise, images would be disturbed or noise would be generated.)
- Please install it in an area not affected by snowfall or blowing snow. In areas with heavy snow, please install a canopy, a pedestal and/or some baffle boards.
- Install the unit horizontally.
- Refrigerant pipes connection shall be accessible for maintenance purposes.
- Install outdoor units in a place where at least one of the four sides is open, and in a sufficiently large space without depressions. (Fig. 2-1)

**⚠ Caution:**

**Avoid the following places for installation where air to water heat pump trouble is liable to occur.**

- Where there is too much machine oil.
- Salty environment as seaside areas.
- Hot-spring areas.
- Where sulfide gas exists.
- Other special atmospheric areas.

The outdoor unit produces condensate during the heating operation. Select the installation place to ensure to prevent the outdoor unit and/or the grounds from being wet by drain water or damaged by frozen drain water.

## 2. Selecting the installation location

### 2.2. Minimum installation area

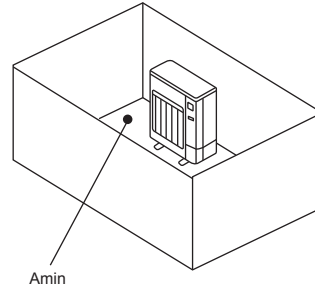
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

**Note: These countermeasures are for keeping safety not for specification guarantee.**

A) Secure sufficient installation space (minimum installation area  $A_{min}$ ).

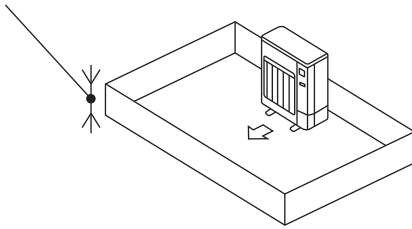
Install in a space with an installation area of  $A_{min}$  or more, corresponding to refrigerant quantity M (factory-charged refrigerant + locally added refrigerant).

M [kg]	$A_{min}$ [m <sup>2</sup> ]
1.0	12
1.5	17
2.0	23
2.5	28
3.0	34
3.5	39
4.0	45
4.5	50
5.0	56
5.5	62
6.0	67
6.5	73
7.0	78
7.5	84

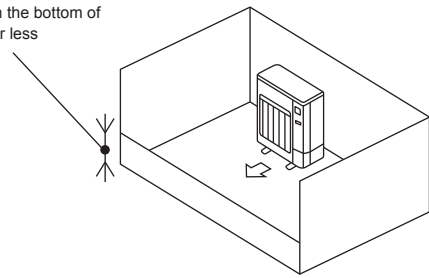


B) Install in a space with a depression height of  $\leq 0.125$  [m].

Height from the bottom of  
0.125 [m] or less



Height from the bottom of  
0.125 [m] or less

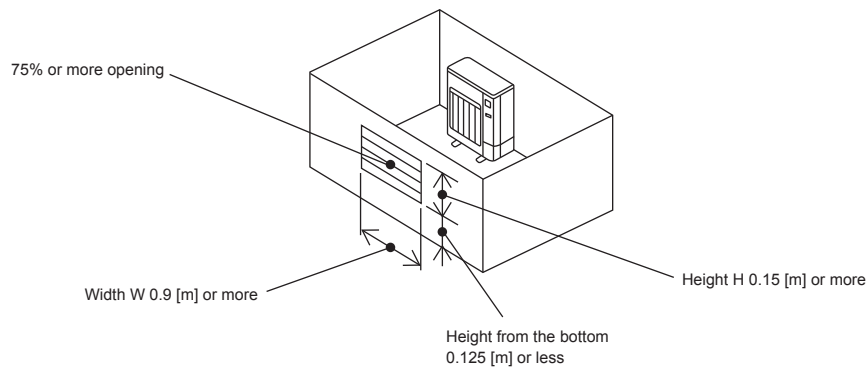


C) Create an appropriate ventilation open area.

Make sure that the width of the open area is 0.9 [m] or more and the height of the open area is 0.15 [m] or more.

However, the height from the bottom of the installation space to the bottom edge of the open area should be 0.125 [m] or less.

Open area should be 75% or more opening.



### 3. Installation diagram

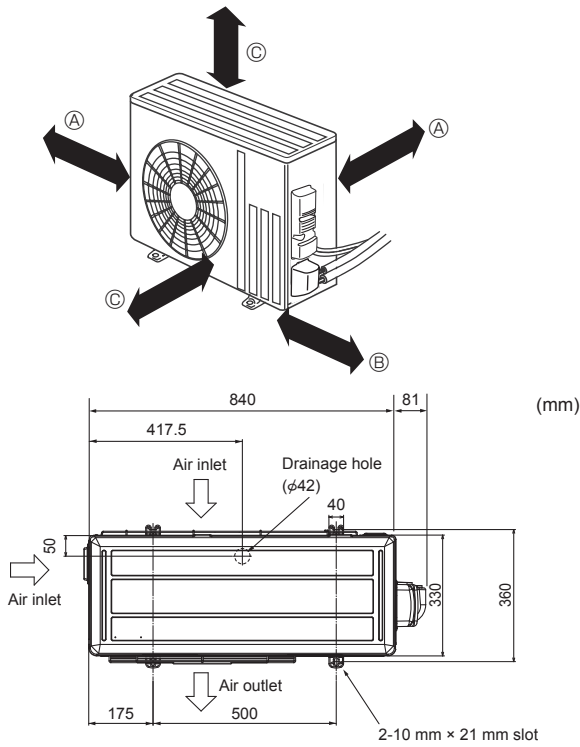


Fig. 3-1

#### 3.1. Outdoor unit (Fig. 3-1)

##### Ventilation and service space

- Ⓐ 100 mm or more
- Ⓑ 350 mm or more
- Ⓒ 500 mm or more

When the piping is to be attached to a wall containing metals (tin plated) or metal netting, use a chemically treated wooden piece 20 mm or thicker between the wall and the piping or wrap 7 to 8 turns of insulation vinyl tape around the piping.

Units should be installed by licensed contractor accordingly to local code requirement.

##### Note:

**When operating the air to water heat pump in low outside temperature, be sure to follow the instructions described below.**

- Never install the outdoor unit in a place where its air inlet/outlet side may be exposed directly to wind.
- To prevent exposure to wind, install the outdoor unit with its air inlet side facing the wall.
- To prevent exposure to wind, it is recommended to install a baffle board on the air outlet side of the outdoor unit.

### 4. Drain piping for outdoor unit (Fig. 4-1)

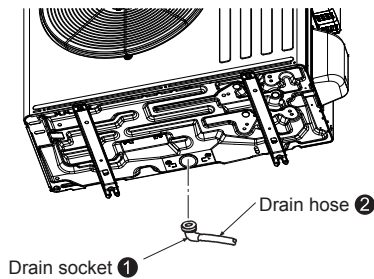


Fig. 4-1

#### 4.1. Accessories

Check the following parts before installation.

<Outdoor unit>

①	Drain socket	1
---	--------------	---

- Provide drain piping before indoor and outdoor piping connection. (It will be hard to install drain socket ① if indoor and outdoor piping connection is conducted prior to drain piping as outdoor unit becomes immovable.)
- Connect the drain hose ② (obtainable at a store, inside diameter: 15 mm) as shown in the figure for drainage.
- Make sure to provide drain piping with a downhill grade for easy drain flow.

##### Note:

**Do not use the drain socket ① in the cold region. Drain may freeze and it makes the fan stop.**

## 5. Refrigerant piping work

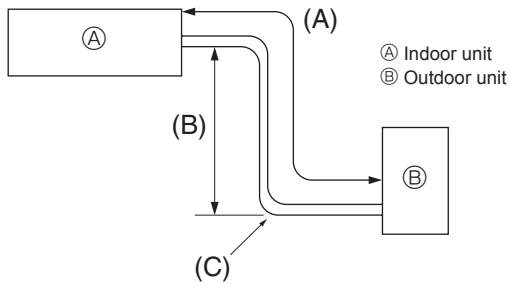


Fig. 5-1

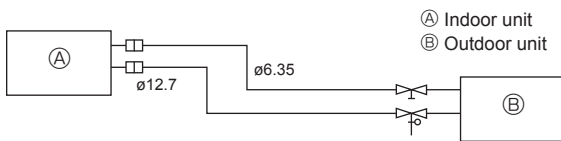


Fig. 5-2

### 5.1. Refrigerant pipe (Fig. 5-1)

► Check that the difference between the heights of the indoor and outdoor units, the length of refrigerant pipe, and the number of bends in the pipe are within the limits shown below.

Models	(A) Pipe length (one way)	(B) Height difference	(C) Number of bends (one way)
SWM40/SWM60/SWM80	5 m - 30 m	Max. 30 m	Max. of 10

- Height difference limitations are binding regardless of which unit, indoor or outdoor, is positioned higher.
- Refrigerant adjustment ... If pipe length exceeds 10 m, additional refrigerant (R32) charge is required.

(The outdoor unit is charged with refrigerant for pipe length up to 10 m.)

Pipe length	Up to 10 m	No additional charge is required.	Maximum amount of refrigerant
	Exceeding 10 m	Additional charge is required. (Refer to the table below.)	
Refrigerant to be added	SWM40	$20 \text{ g} \times (\text{refrigerant piping length (m)} - 10)$	1.6 kg
	SWM60	$20 \text{ g} \times (\text{refrigerant piping length (m)} - 10)$	1.6 kg
	SWM80	$20 \text{ g} \times (\text{refrigerant piping length (m)} - 10)$	1.6 kg

(1) Table below shows the specifications of pipes commercially available. (Fig. 5-2)

Model	Pipe	Outside diameter		Min. wall thickness	Insulation thickness	Insulation material
		mm	inch			
SWM40	For liquid	6.35	1/4	0.8 mm	8 mm	Heat resisting foam plastic 0.045 specific gravity
	For gas	12.7	1/2	0.8 mm	8 mm	
SWM60	For liquid	6.35	1/4	0.8 mm	8 mm	
	For gas	12.7	1/2	0.8 mm	8 mm	
SWM80	For liquid	6.35	1/4	0.8 mm	8 mm	
	For gas	12.7	1/2	0.8 mm	8 mm	

- (2) Ensure that the 2 refrigerant pipes are well insulated to prevent condensation.
- (3) Refrigerant pipe bending radius must be 100 mm or more.

#### ⚠ Caution:

Using careful insulation of specified thickness. Excessive thickness prevents storage behind the indoor unit and smaller thickness causes dew drippage.

- Be sure to have appropriate ventilation in order to prevent ignition. Furthermore, be sure to carry out fire prevention measures that there are no dangerous or flammable objects in the surrounding area.
- R32 maintenance refilling: Before servicing refilling the equipment with R32 to ensure that there is no risk of explosion from electrical sparks it must be ensured that the equipment machine is 100% disconnected from the mains supply.

## 5. Refrigerant piping work

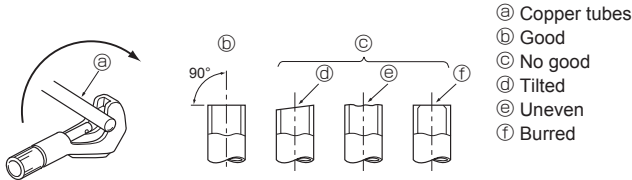


Fig. 5-3

- Ⓐ Copper tubes
- Ⓑ Good
- Ⓒ No good
- Ⓓ Tilted
- Ⓔ Uneven
- Ⓕ Burred

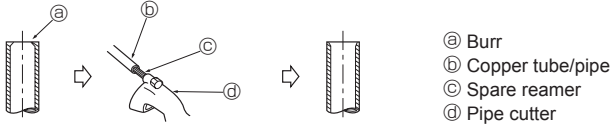


Fig. 5-4

- Ⓐ Burr
- Ⓑ Copper tube/pipe
- Ⓒ Spare reamer
- Ⓓ Pipe cutter

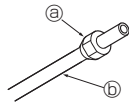


Fig. 5-5

- Ⓐ Flare nut
- Ⓑ Copper tube

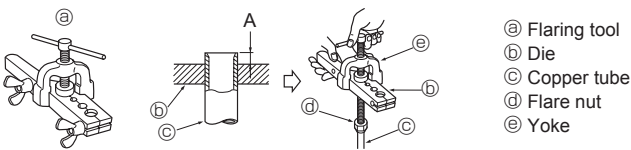


Fig. 5-6

- Ⓐ Flaring tool
- Ⓑ Die
- Ⓒ Copper tube
- Ⓓ Flare nut
- Ⓔ Yoke

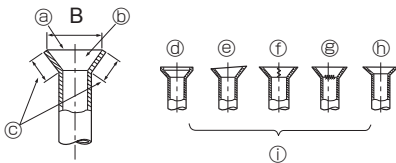


Fig. 5-7

### 5.2. Flaring work

- Main cause of gas leakage is defect in flaring work.
- Carry out correct flaring work in the following procedure.

#### 5.2.1. Pipe cutting (Fig. 5-3)

- Using a pipe cutter cut the copper tube correctly.

#### 5.2.2. Burrs removal (Fig. 5-4)

- Completely remove all burrs from the cut cross section of pipe/tube.
- Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid burrs drop in the tubing.

#### 5.2.3. Putting nut on (Fig. 5-5)

- Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal.
- (not possible to put them on after flaring work)

#### 5.2.4. Flaring work (Fig. 5-6)

- Carry out flaring work using flaring tool as shown at the right.

Pipe diameter (mm)	Dimension	
	A (mm)	B <sup>+0</sup> <sub>-0.4</sub> (mm)
	When the tool for R32 is used Clutch type	
6.35	0 - 0.5	9.1
9.52	0 - 0.5	13.2
12.7	0 - 0.5	16.6
15.88	0 - 0.5	19.7

Firmly hold copper tube in a die in the dimension shown in the table at above.

#### 5.2.5. Check (Fig. 5-7)

- Compare the flared work with a figure in right side hand.
- If flare is noted to be defective, cut off the flared section and do flaring work again.

- Ⓐ Smooth all around
- Ⓑ Inside is shining without any scratches
- Ⓒ Even length all around
- Ⓓ Too much
- Ⓔ Tilted
- Ⓕ Scratch on flared plane
- Ⓖ Cracked
- Ⓗ Uneven
- Ⓘ Bad examples

- Apply a thin coat of refrigeration oil on the seat surface of pipe. (Fig. 5-8)
- For connection first align the center, then tighten the first 3 to 4 turns of flare nut.
- Use tightening torque table below as a guideline for indoor unit side union joint section, and tighten using two wrenches. Excessive tightening damages the flare section.

Copper pipe O.D. (mm)	Flare nut O.D. (mm)	Tightening torque (N·m)
ø6.35	17	14 - 18
ø9.52	22	34 - 42
ø12.7	26	49 - 61
ø15.88	29	68 - 82

#### ⚠ Warning:

When installing the unit, securely connect the refrigerant pipes before starting the compressor.

#### ⚠ Warning:

Be careful of flying flare nut! (Internally pressurized)

Remove the flare nut as follows:

1. Loosen the nut until you hear a hissing noise.
2. Do not remove the nut until the gas has been completely released (i.e., hissing noise stops).
3. Check that the gas has been completely released, and then remove the nut.

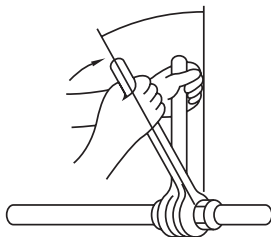
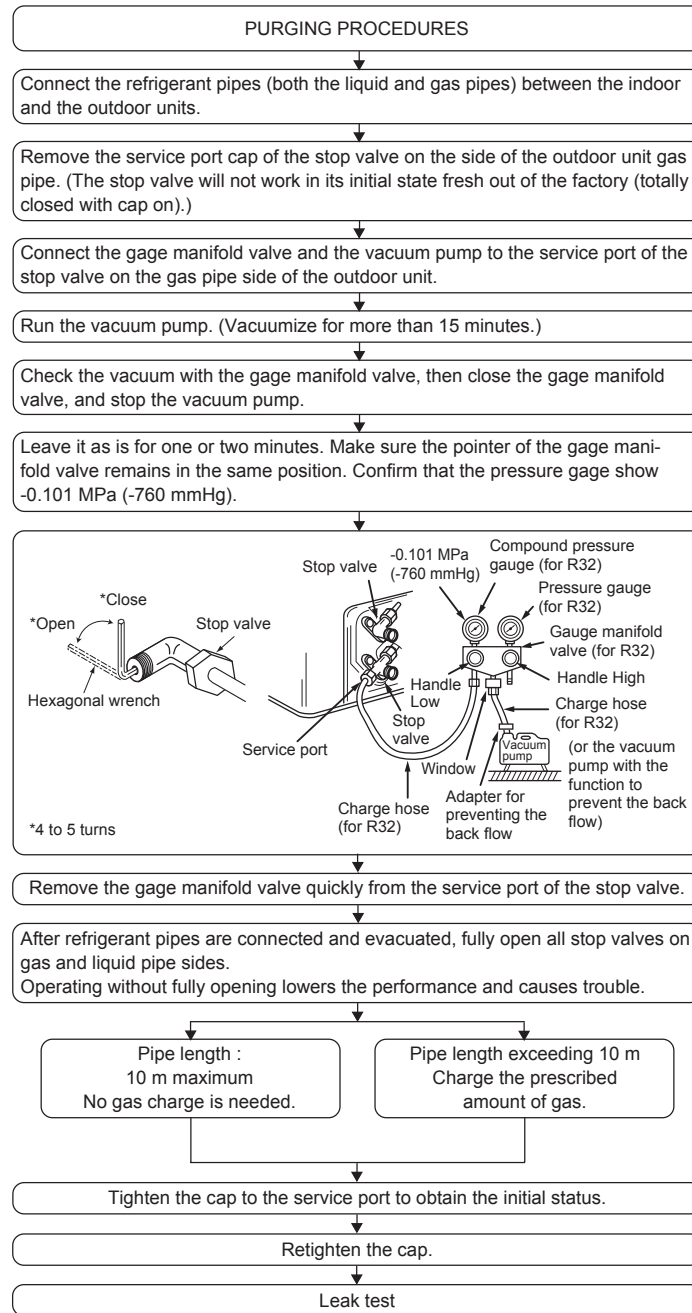


Fig. 5-8



## 5. Refrigerant piping work

### 5.3. Purging procedures leak test



en

## 6. Electrical work

### 6.1. Outdoor unit (Fig. 6-1, Fig. 6-2, Fig. 6-3)

- ① Remove the service panel.
- ② Wire the cables referring to the Fig. 6-1, Fig. 6-2 and the Fig. 6-3.

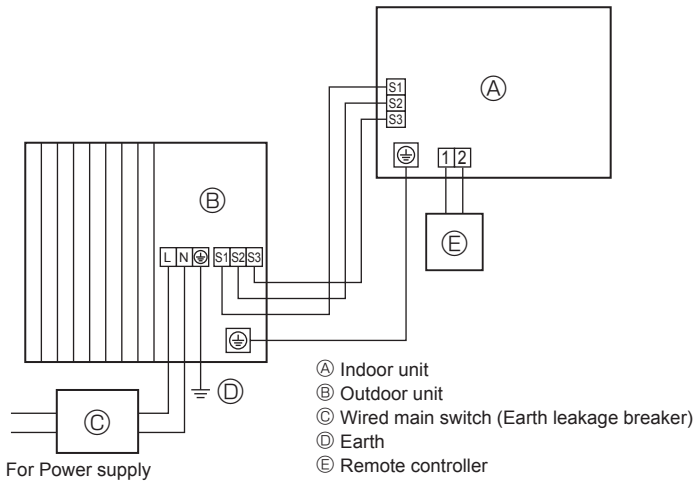


Fig. 6-1

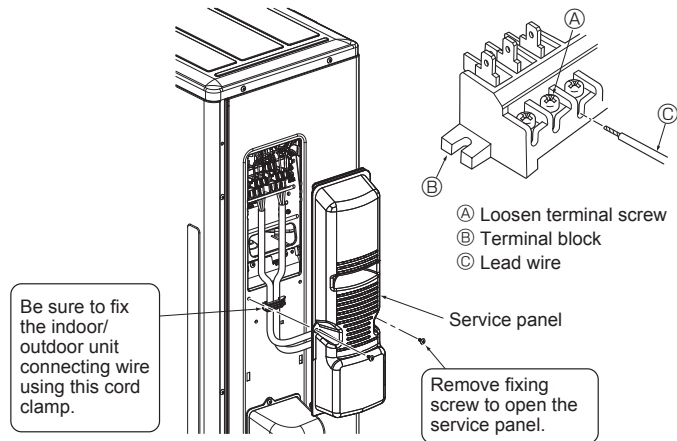


Fig. 6-3

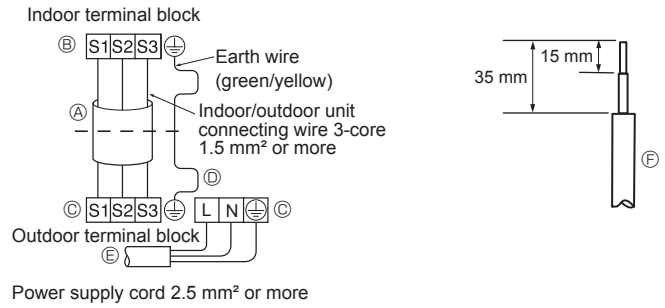


Fig. 6-2

- Perform wiring as shown in the diagram to the lower left. (Procure the cable locally) (Fig. 6-2)
- Make sure to use cables of the correct polarity only.

- (A) Connecting cable
- (B) Indoor terminal block
- (C) Outdoor terminal block
- (D) Always install an earth wire longer than other cables.
- (E) Power supply cord
- (F) Lead wire

- Make earth wire a little longer than others. (More than 100 mm)
- For future servicing, give extra length to the connecting wires.
- Be sure to attach each screw to its correspondent terminal when securing the cord and/or the wire to the terminal block.

- Connect cable from the indoor unit correctly on the terminal-block.
- Use the same terminal block and polarity as is used with the indoor unit.
- For aftercare maintenance, give extra length to connecting cable.

- Both end of connecting cable (extension wire) are peeled off. When too long, or connected by cutting off the middle, peel off power supply cable to the size given in the figure.
- Be careful not to contact connecting cable with piping.

#### ⚠ Caution:

- Use care not to make miswiring.
- Firmly tighten the terminal screws to prevent them from loosening.
- After tightening, pull the wires lightly to confirm that they do not move.

#### ⚠ Warning:

- Be sure to attach the service panel of the outdoor unit securely. If it is not attached correctly, it could result in a fire or an electric shock due to dust, water, etc.
- Tighten terminal screws securely.
- Wiring should be done so that the power lines are not subject to tension. Otherwise, heat may be generated or fire may occur.

## 6. Electrical work

### 6.2. Field electrical wiring

Outdoor unit model		SWM40/SWM60/SWM80
Outdoor unit power supply		~N (single), 50 Hz, 230 V
Outdoor unit input capacity Main switch (Breaker)		*1 16 A
Wiring Wire No. × size (mm <sup>2</sup> )	Outdoor unit power supply	2 × Min. 2.5
	Outdoor unit power supply earth	1 × Min. 2.5
	Indoor unit-Outdoor unit	3 × 1.5 (Polar)
	Indoor unit-Outdoor unit earth	1 × Min. 1.5
Circuit rating	Outdoor unit L-N	*2 230 VAC
	Indoor unit-Outdoor unit S1-S2	*2 230 VAC
	Indoor unit-Outdoor unit S2-S3	*2 12 VDC – 24 VDC

\*1. A breaker with at least 3 mm contact separation in each poles shall be provided. Use earth leakage breaker (NV).

Make sure that the current leakage breaker is one compatible with higher harmonics.

Always use a current leakage breaker that is compatible with higher harmonics as this unit is equipped with an inverter.

The use of an inadequate breaker can cause the incorrect operation of inverter.

\*2. The figures are NOT always against the ground.

S3 terminal has 24 VDC against S2 terminal. However between S3 and S1, these terminals are NOT electrically insulated by the transformer or other device.

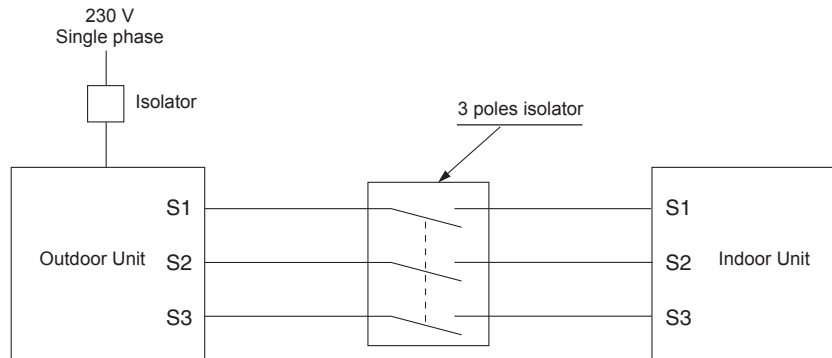
**Notes:** 1. Wiring size must comply with the applicable local and national code.

2. Power supply cords and Indoor/Outdoor unit connecting cords shall not be lighter than polychloroprene sheathed flexible cord. (Design 60245 IEC 57)

3. Install an earth longer than other cables.

4. Use self-extinguishing distribution cables for power supply wiring.

5. Properly route wiring so as not to contact the sheet metal edge or a screw tip.



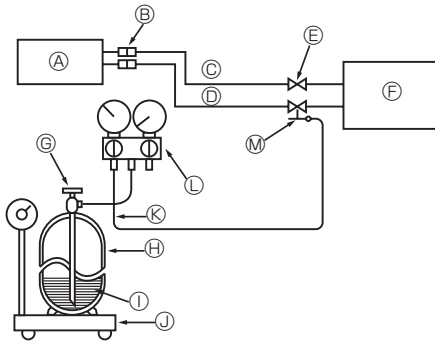
#### ⚠ Warning:

There is high voltage potential on the S3 terminal caused by electrical circuit design that has no electrical insulation between power line and communication signal line. Therefore, please turn off the main power supply when servicing. And do not touch the S1, S2, S3 terminals when the power is energized. If isolator should be used between indoor unit and outdoor unit, please use 3-poles type.

Never splice the power cable or the indoor-outdoor connection cable, otherwise it may result in a smoke, a fire or communication failure.

Be sure to connect the indoor-outdoor connecting cables directly to the units (no intermediate connections). Intermediate connections can lead to communication error if water enters the cables and causes insufficient insulation to ground or a poor electrical contact at the intermediate connection point.

## 7. Maintenance



- |  |   |
|--|---|
| Ⓐ Indoor unit                              | Ⓜ Service port                              |
| Ⓑ Union                                    | Ⓨ Refrigerant (liquid)                      |
| Ⓒ Liquid pipe                              | Ⓩ Electronic scale for refrigerant charging |
| Ⓓ Gas pipe                                 | Ⓚ Charge hose (for R32)                     |
| Ⓔ Stop valve                               | Ⓛ Gauge manifold valve (for R32)            |
| Ⓕ Outdoor unit                             | Ⓜ Service port                              |
| Ⓖ Refrigerant gas cylinder operating valve |   |

Fig. 7-1

### 7.1. Gas charge (Fig. 7-1)

1. Connect gas cylinder to the service port of stop valve (3-way).
2. Execute air purge of the pipe (or hose) coming from refrigerant gas cylinder.
3. Replenish specified amount of refrigerant, while running the air to water heat pump for cooling.

**Note:**

In case of adding refrigerant, comply with the quantity specified for the refrigerating cycle.

**⚠ Caution:**

- Do not discharge the refrigerant into the atmosphere. Take care not to discharge refrigerant into the atmosphere during installation, reinstallation, or repairs to the refrigerant circuit.
- For additional charging, charge the refrigerant from liquid phase of the gas cylinder.

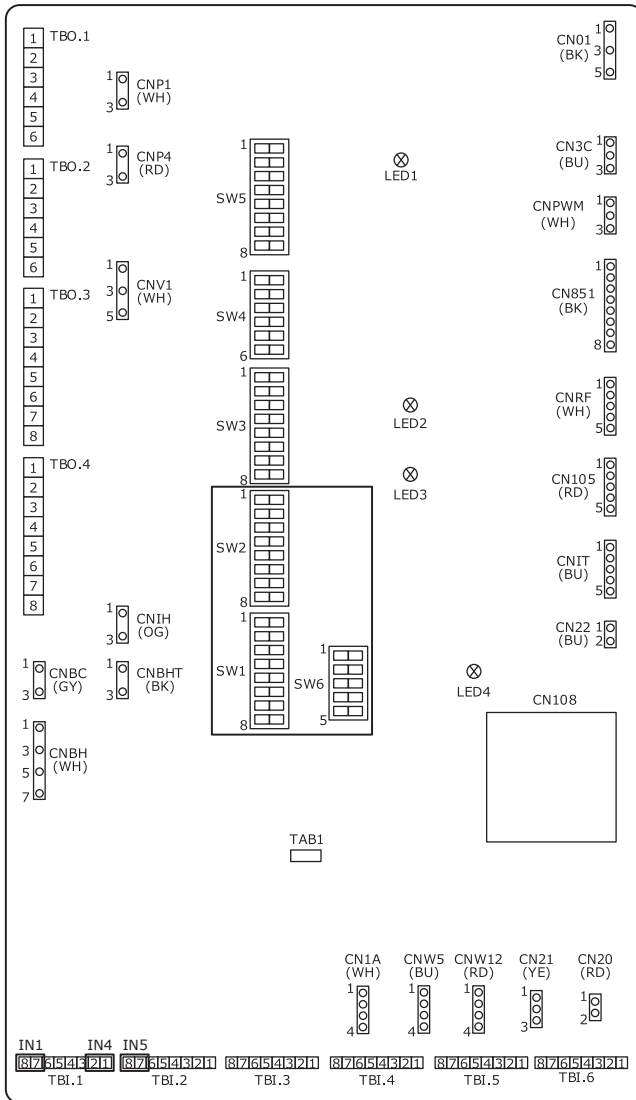
If the refrigerant is charged from the gas phase, composition change may occur in the refrigerant inside the cylinder and the outdoor unit. In this case, ability of the refrigerating cycle decreases or normal operation can be impossible. However, charging the liquid refrigerant all at once may cause the compressor to be locked. Thus, charge the refrigerant slowly.

To maintain the high pressure of the gas cylinder, warm the gas cylinder with warm water (under 40°C) during cold season. But never use naked fire or steam.

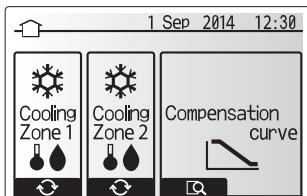
## 8. Pumping down

When relocating or disposing of the outdoor unit, pump down the system following the procedure below so that no refrigerant is released into the atmosphere.

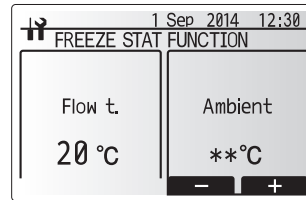
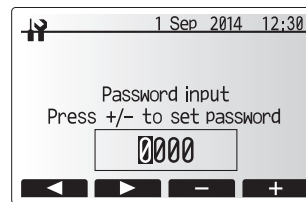
- ① Turn OFF all the supply circuit (including Indoor unit, Heater, Outdoor unit etc.)
- ② Connect the gauge manifold valve to the service port of the stop valve on the gas pipe side of the outdoor unit.
- ③ Fully close the stop valve on the liquid pipe side of the outdoor unit.
- ④ Change the settings on the indoor unit.
  - Set DIP switch SW1-3 to OFF, SW2-1 to OFF, SW2-4 to ON and SW6-3 to OFF on the indoor control board.
  - Disconnect the signal inputs IN1 (room thermostat 1 input), IN4 (Demand control input) and IN5 (Outdoor thermostat input).



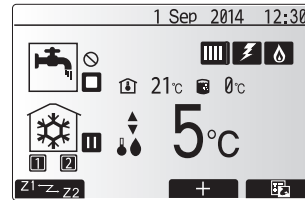
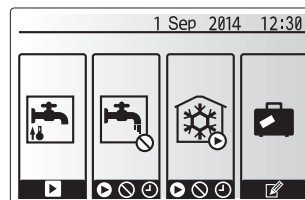
- ⑤ Turn ON all the supply circuit.
- ⑥ From the main menu on the main controller of the indoor unit, select "Heating/cooling mode" → "Cooling flow temp."



- ⑦ From the main menu, select "Service" → "Operation settings" → "Freeze stat function", and then set the minimum outdoor ambient temperature to \*(asterisk). You will be prompted to enter a password. THE FACTORY DEFAULT PASSWORD is "0000".



- ⑧ Perform the refrigerant collecting operation.
  - Push "ON/OFF" button on the main controller.
  - From the option menu, set "Cooling ON".
  - Set the target flow temperature to 5 °C. If the system is controlled by a room temperature thermostat, set the target room temperature to 10 °C. Refrigerant collecting operation starts after 60 seconds.
  - For details or for other information about the main controller settings, refer to the installation manual or operation manual for indoor unit.



- ⑨ Fully close the stop valve on the gas pipe side of the outdoor unit when the pressure gauge shows 0.05 to 0 MPa [Gauge] (approx. 0.5 to 0 kgf/cm<sup>2</sup>) and quickly stop the outdoor unit.
  - Push the "ON/OFF" button on the remote controller to stop the outdoor unit.
  - \* Note that when the extension piping is very long with a large refrigerant amount, it may not be possible to perform a pump down operation. In this case, use refrigerant recovery equipment to collect all of the refrigerant in the system.
- ⑩ Set back the main controller setting changed at the procedure ⑥ above.
- ⑪ Push the "ON/OFF" button for about 3 seconds on the main controller of the indoor unit to stop the unit.
- ⑫ Set back the main controller settings changed at any other procedure except ⑥.
- ⑬ Turn OFF all the supply circuit and set back the DIP switch settings on the indoor circuit board as it were.
- ⑭ Remove the gauge manifold valve, and then disconnect the refrigerant pipes.

**Warning:**  
 When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes.  
 • If the refrigerant pipes are disconnected while the compressor is operating and the stop valve (ball valve) is open, the pressure in the refrigeration cycle could become extremely high if air is drawn in, causing the pipes to burst, personal injury, etc.

**Caution:**  
 Do NOT use this COOLING mode at any other cases except pumping down. If it is used as normal operation, the heat pump may not provide enough performance.

## 9. Specifications

### 9.1. Outdoor unit specifications

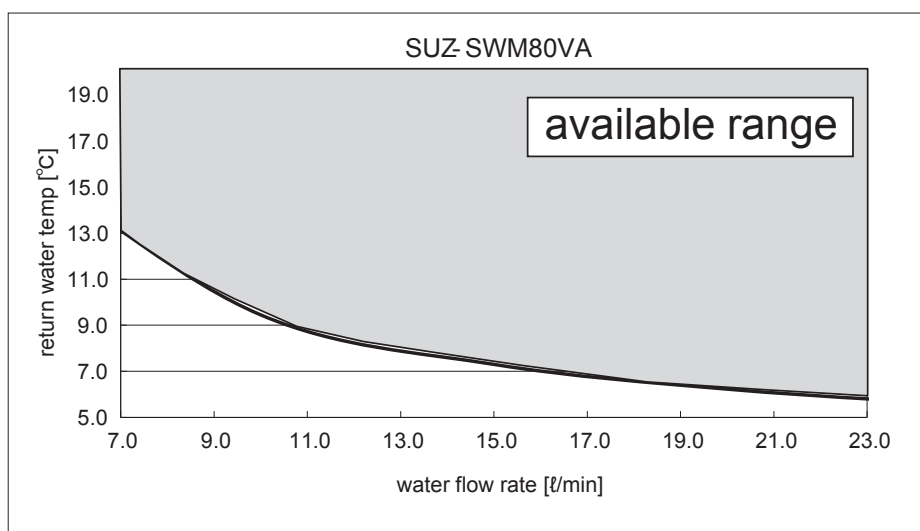
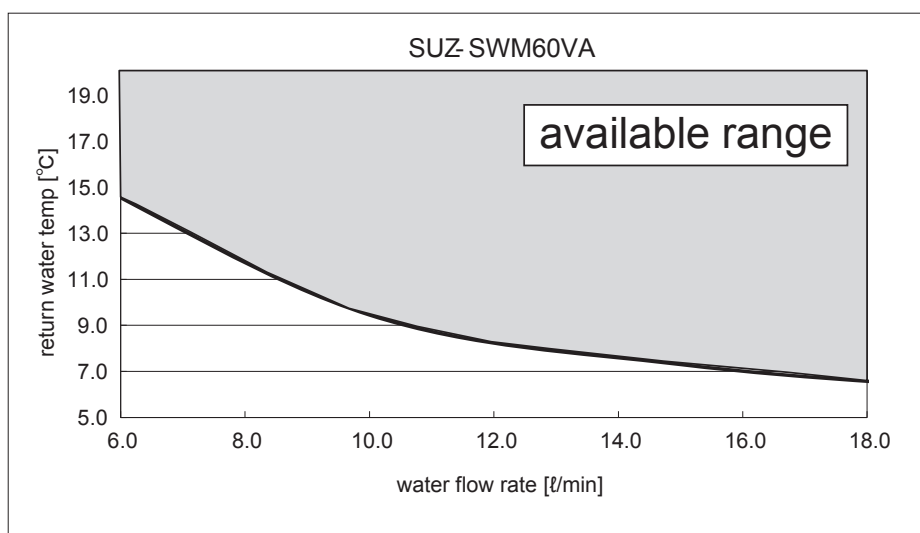
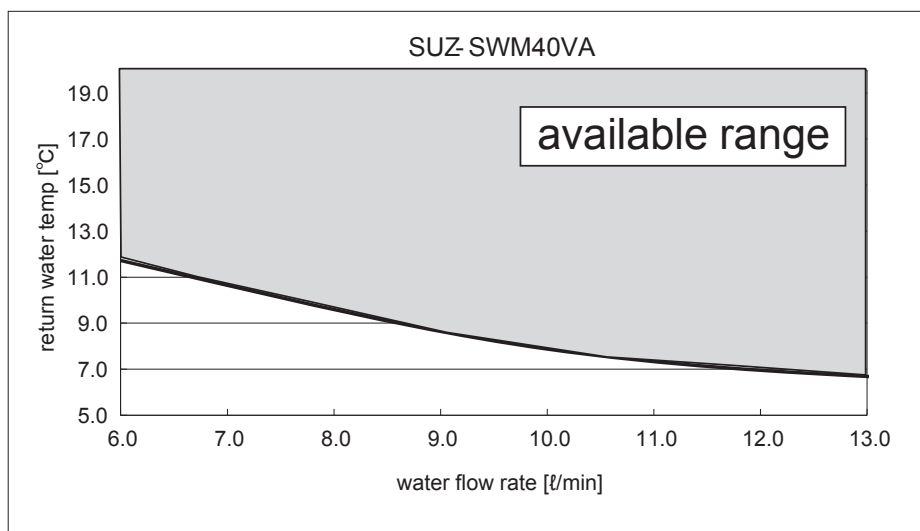
Outdoor model		SUZ-SWM40	SUZ-SWM60	SUZ-SWM80
Power supply	V / Phase / Hz		230 / Single / 50	
Dimensions (W × H × D)	mm		840 × 880 × 330	
Sound Power Level *1 (Heating)	dB(A)	57	59	61

\*1. Measured under rated operation frequency.

### 9.2. Available range (Water flow rate, return water temp.)

Following water flow rate and return temperature range is required in the water circuit.

en



Make sure to perform freeze protection measure such as applying anti-freeze solution when operating the unit on cooling mode under low ambient temperature (under 0 °C).

## 10. Serial number

---

- The serial number is indicated on the SPEC NAME PLATE.

□ □ P

□ □ □ □ □

Sequential number for each unit: 00001–99999

P (Product code of outdoor)

Month of manufacture: 1, 2, 3, 4, 5, 6, 7, 8, 9, X (10), Y (11), Z (12)

Year of manufacture (western calendar) : 2019 → 9. 2020 → 0

EG DECLARATION OF CONFORMITY  
EG-KONFORMITÄTSEKHLÄRUNG  
DÉCLARATION DE CONFORMITÉ CE  
EG-CONFORMITEITSVERKLARING  
DECLARACIÓN DE CONFORMIDAD CE  
DICHIARAZIONE DI CONFORMITÀ CE

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DEKLARACJA ZGODNOŚCI WE

CE-ERKLÆRING OM SAMSVAR  
EY-VAATIMUSTENMUKAISUUSVAKUUTUS  
ES PROHLÁŠENÍ O SHODĚ  
VYHLÁSENIE O ZHODE ES  
EK MEGFELELŐSÉGI NYILATKOZAT  
IZJAVA O SKLADNOSTI ES

DECLARAȚIE DE CONFORMITATE CE  
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EK ATBILSTĪBAS DEKLARĀCIJA  
EB ATITIKTIES DEKLARĀCIJA  
EC IZJAVA O SUKLADNOSTI  
EZ IZJAVA O USAGLAŠENOSTI

**mitsubishi electric air conditioning systems europe ltd.**  
**nettlehill road, houstoun industrial estate, livingston, eh54 5eq, scotland, united kingdom**

hereby declares under its sole responsibility that the air conditioners and heat pumps described below for use in residential, commercial and light-industrial environments:  
erklärt hiermit auf seine alleinige Verantwortung, dass die Klimaanlage und Wärmepumpen für das häusliche, kommerzielle und leicht-industrielle Umfeld wie unten beschrieben:  
déclare par la présente et sous sa propre responsabilité que les climatiseurs et les pompes à chaleur décrits ci-dessous, destinés à un usage dans des environnements résidentiels, commerciaux et d'industrie légère :  
verklaart hierbij onder eigen verantwoordelijkheid dat de voor residentiële, commerciële en licht-industriële omgevingen bestemde airconditioners en warmtepompen zoals onderstaand beschreven:  
por la presente declara bajo su única responsabilidad que los acondicionadores de aire y bombas de calor descritas a continuación para su uso en entornos residenciales, comerciales y de industria ligera:  
confirma con la presente, sotto la sua esclusiva responsabilità, che i condizionatori d'aria e le pompe di calore descritti di seguito e destinati all'utilizzo in ambienti residenziali, commerciali e semi-industriali:  
με το παρόν πιστοποιεί με αποκλειστική της ευθύνη ότι οι τα κλιματιστικά και οι αντλίες θέρμανσης που περιγράφονται παρακάτω για χρήση σε οικιακό, επαγγελματικό και ελαφριάς βιομηχανίας περιβάλλοντα:  
através da presente declara sob sua única responsabilidade que os aparelhos de ar condicionado e bombas de calor abaixo descritos para uso residencial, comercial e de indústria ligeira:  
erklärer hermed under eneansvar, at de herunder beskrevne airconditionanlæg og varmepumper til brug i privat boligbyggeri, erhvervsområder og inden for let industri:  
intygat härmed att luftkonditioneringarna och värmepumparna som beskrivs nedan för användning i bostäder, kommersiella miljöer och lätta industriella miljöer:  
декларира на своя собствена отговорност, че климатичите и термопомпите, описани по-долу, за употреба в жилищни, търговски и леки промишлени условия:  
niniejszym oświadczam na swoją wyłączną odpowiedzialność, że klimatyzatory i pompy ciepła opisane poniżej, są przeznaczone do zastosowań w środowisku mieszkalnym, handlowym i lekkim przemysłowym:  
erklærer et fullstendig ansvar for undernevnte klima- og varmepumper ved bruk i boliger, samt kommersielle og lettindustrielle miljøer:  
vakuuttaa täten yksinomaan vastuullaan, että jäljempänä kuvutat asuinrakennuksiin, pientaloisuuskäyttöön ja kaupalliseen käyttöön tarkoitettuihin ilmastointilaitteisiin ja lämpöpumput:  
tímto na vlastní odpovědnost prohlašuje, že níže popsané klimatizační jednotky a tepelná čerpadla pro použití v obytných prostředích, komerčních prostředích a prostředích lehkého průmyslu:  
týmto na svoju výlučnú zodpovednosť vyhlasuje, že nasledovné klimatizačné jednotky a tepelné čerpadlá určené na používanie v obytných a obchodných priestoroch a v prostredí ľahkého priemyslu:  
alulírott kizárólagos felelősségére nyilatkozik, hogy az alábbi lakossági, kereskedelmi és kisipari környezetben való használatra szánt klímaberendezések és hőszivattyúk:  
izjavlja pod izključno lastno odgovornostjo, da so spodaj navedene klimatske naprave in toplotne črpalke, namenjene uporabi v stanovanjskih, komercialnih in lahkoindustrijskih okoljih:  
declară, prin prezenta, pe proprie răspundere, faptul că aparatele de climatizare și pompele de căldură descrise mai jos și destinate utilizării în medii rezidențiale, comerciale și din industria ușoară:  
kinnitab käesolevaga oma ainuvastutusele, et alpool toodud kliimaseadmed ja soojuspumbad on mõeldud kasutamiseks elu-, äri- ja kergtööstuskeskkondades:  
ar so, vierpersooniski uzņemoties atbildību, paziņo, ka tālāk aprakstītie gaisa kondicionētāji un siltumtīkņi ir paredzēti lietošanai dzīvojamajās, komercdarbības un vieglās rūpniecības telpās.  
šiuo vien tik savo atsakomybe pareiškia, kad toliau apibūdinti oro kondicionieriai ir šilumos siurbiai skirti naudoti gyvenamosiose, komercinėse ir lengvosios pramonės aplinkose:  
ovime izjavljuje pod isključivom odgovornošću da su klimatizacijski uređaji i toplinske dizalice opisane u nastavku namijenjeni za upotrebu u stambenim i poslovnim okruženjima te okruženjima lake industrije:  
ovim izjavljuje na svoju isključivu odgovornost da su klima-uređaji i toplotne pumpe opisane u daljem tekstu za upotrebu u stambenim, komercijalnim okruženjima i okruženjima sa lakom industrijom:

**MITSUBISHI ELECTRIC, SUZ-SWM40VA\*,SUZ-SWM60VA\*,SUZ-SWM80VA\***  
\* : , , 1, 2, 3, , , , 9

Note: Its serial number is on the nameplate of the product.  
Hinweis: Die Seriennummer befindet sich auf dem Kennschild des Produkts.  
Remarque : Le numéro de série de l'appareil se trouve sur la plaque du produit.  
Opmerking: het serienummer staat op het naamplaatje van het product.  
Nota: El número de serie se encuentra en la placa que contiene el nombre del producto.  
Nota: il numero di serie si trova sulla targhetta del prodotto.  
Σημείωση: Ο σειριακός του αριθμός βρίσκεται στην πινακίδα ονόματος του προϊόντος.  
Nota: o número de série encontra-se na placa que contém o nome do produto.  
Bemærk: Serienummeret står på produktets fabriksskilt.  
Obs: Serienumret finns på produktens namnplåt.  
Забележка: Серийният му номер е на табелката на продукта.  
Uwaga: Numer seryjny znajduje się na tabliczce znamionowej produktu.

Merk: Serienummeret befinnet seg på navneplaten til produktet.  
Huomautus: Sarjanumero on merkitty laitteen arvokilpeen.  
Poznámka: Příslušné sériové číslo se nachází na štítku produktu.  
Poznámka: Výrobné číslo sa nachádza na typovom štítku výrobku.  
Megjegyzés: A sorozatszám a termék adattábláján található.  
Opomba: serijska številka je zapisana na tipski ploščici enote.  
Nota: Numărul de serie este specificat pe plăcuța indicatoare a produsului.  
Märkus: Seerianumber asub toote andmesiltil.  
Piezīme: Sērijas numurs ir norādīts uz ierīces datu plāksnītes.  
Pastaba: Serijos numeris nurodytas gaminių vardinųjų duomenų lentelėje.  
Napomena: serijski broj nalazi se na natpisnoj pločici proizvoda.  
Napomena: Serijski broj nalazi se na nazivnoj pločici proizvoda.

Directives  
Richtlijnen  
Directives  
Richtlijnen  
Directivas  
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Directivas  
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Директиви  
Dyrektywy

Direktiver  
Direktiivit  
Směrnice  
Smernice  
Írányelvek  
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Direktyvos  
Direktive  
Direktive

2014/35/EU: Low Voltage Directive  
2006/42/EC: Machinery Directive  
2014/30/EU: Electromagnetic Compatibility Directive  
2011/65/EU, (EU) 2015/863 and (EU) 2017/2102: RoHS Directive  
2009/125/EC: Energy-related Products Directive and Regulation (EU) No 813/2013

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UNITED KINGDOM

25 Apr. 2019

Takashi TANABE  
Manager, Quality Assurance Department



This product is designed and intended for use in the residential, commercial and light-industrial environment.

**Importer:**

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UK Branch  
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Polish Branch  
Krakowska 50, PL-32-083 Balice, Poland

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

**MITSUBISHI ELECTRIC CORPORATION**

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