



Air to Water Heat Pump PUZ-WZ • AA 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

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

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

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

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

ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΩΝ ΕΓΚΑΤΑΣΤΑΣΗΣ

Για σωστή και ασφαλή χρήση διαβάστε προσεκτικά αυτό το εγχειρίδιο καθώς και το εγχειρίδιο εγκατάστασης της εσωτερικής μονάδας, πριν ου εγκαταστήσετε την εσωτερική μονάδα. Η γλώσσα του πρωτότυπου είναι η αγγλική. Οι εκδόσεις άλλων γλωσσών είναι μεταφράσεις του πρωτότυπου.

ΠΑ ΑΥΤΟΝ ΠΟΥ ΚΑΝΕΙΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ

NÁVOD K MONTÁŽI

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

PRO MONTERA

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 zewnętrznej. Oryginalna instrukcja sporządzono w języku angielskim. Pozostałe wersje językowe zostały przetłumaczone z oryginału.

DLA INSTALATORA

РЪКОВОДСТВО ЗА МОНТАЖ

Za bezopasno 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. Версии на други езици са превод от оригинална.

ЗА ИНСТАЛАТОРА

NÁVOD NA INŠTALÁCIU

V záujme bezpečnosti a správneho používania si pred inštaláciou exteriérovej jednotky prečítajte tento návod a návod na inštaláciu interiérovej jednotky. Preklad anglického originálu. Všetky jazykové verzie sú preložené z angličtiny.

PRE MONTÉRA

TELEPÍTÉSI KÉZIKÖNYV

A biztonságos és helyes használat érdekében, a kultéri egység felszerelése előtt olvassa el figyelmesen ezt a használati utasítást és a beltéri egység telepítési kézikönyvét. Az angol változat az eredeti. A többi nyelvi változat az eredeti fordítása.

A TELEPÍTŐ RÉSZÉRE

PRIROČNIK ZA NAMESTITEV

Za varno in pravilno uporabo namestitev preberite ta navodila za uporabo in namestitevni priročnik za notranjo enoto, preden namestite zunanjo enoto. Izvirnik je v angleščini. Druge jezikovne različice so prevodi izvirnika.

ZA MONTERA

MANUAL CU INSTRUCTIUNI DE INSTALARE

Pentru a utiliza aparatul corect și în siguranță, citiți în întregime aceste instrucțiuni și manualul de instalare al unității interioare înainte de a instala unitatea exterioară. Textul original este în limba engleză. Versiunile pentru celelalte limbi sunt traduceri ale originalului.

PENTRU INSTALATOR

PRIRUČNIK ZA UGRADNJU

Radi sigurne i pravilne uporabe pročitajte pažljivo ovaj priručnik i priručnik za postavljanje unutrašnje jedinice prije postavljanja vanjske jedinice. Tekst je izvorno napisan na engleskom jeziku. Tekst na ostalim jezicima predstavlja prijevod izvorno napisanog teksta.

ZA INSTALATERA

UPUTSTVO ZA UGRADNJU

Radi bezbedne i ispravne upotrebe, detaljno pročitajte ovo uputstvo i uputstvo za ugradnju unutrašnje jedinice pre nego što ugradite spoljni jedinicu. Prevod originala. Verzije na drugim jezicima su prevodi originala.

ZA MONTERA

English

Deutsch

Français

Nederlands

Italiano

Ελληνικά

Čeština

Polski

Български

Slovenčina

Magyar

Slovenščina

Română

Hrvatski

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.
- 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.
- cs** Příručky naleznete ke stažení na internetové stránce zmíněné výše poté, co zvolíte model a jazyk.
- pl** Odwiedź powyższą stronę internetową, aby pobrać instrukcje, wybierz nazwę modelu, a następnie język.
- bg** Посетете гореносочения уебсайт, за да изтеглите ръководства, като изберете име на модел и след това – език.
- sk** Na webovej stránke vyššie si môžete stiahnuť návody. Vyberte názov modelu a zvoľte 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.
- 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.

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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!

en

1. Safety precautions

- ▶ Before installing the unit, make sure you read all the "Safety precautions".
- ▶ Please report to or take consent by the supply authority before connection to the system.
- ▶ Equipment complying with IEC/EN 61000-3-12 (PUZ-WZ-VAA)

After installation work has been completed, explain the "Safety precautions," use, and maintenance of the unit to the customer/user according to the information in the Operation Manual and perform the test run to demonstrate operation. Both the Installation Manual and Operation Manual must be retained by the user. The Installation Manual and Operation Manual must be passed by the user to subsequent users.

WARNING:

Describes precautions that must be observed to prevent danger of injury or death to the user.

CAUTION:

Describes precautions that must be observed to prevent damage to the unit.

MEANINGS OF SYMBOLS DISPLAYED ON THE UNIT

	A3 WARNING (Risk of fire)	This unit uses R290, a highly flammable refrigerant. If any refrigerant leaks or comes in contact with fire or a heated surface or environment, there is a risk of fire or explosion, and the installer and/or user is warned to take all possible safety precautions when handling the unit and R290, being sure to keep a safe distance at all times to any related fire or explosion and to notify the fire department immediately on becoming aware of such an outcome.
	Read the OPERATION MANUAL carefully before operation.	
	Service personnel are required to carefully read the OPERATION MANUAL and INSTALLATION MANUAL before operation.	

1. Safety precautions

1.1. General

- Carefully read the labels affixed to the main unit.
- 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.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Compliance with national gas regulations shall be observed.
- 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).
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

WARNING:

- The unit must only be installed/serviced/relocated/repaired/disposed, including any work undertaken on a related refrigerant circuit, by a competent electrician, with the requisite professional qualifications to install this unit and perform electrical works in your jurisdiction. Please contact your dealer for them.

Failure to conduct electric work, deal with the refrigerant circuit(s) and install/service/relocate/repair or dispose the unit correctly in accordance with the foregoing and all laws and regulations may lead to prosecution, water leakage, electric shock or fire. Mitsubishi Electric does not accept responsibility for any direct, indirect, special or consequential loss, damage, liability or expense incurred or suffered which results from any works undertaken by an unqualified or third party installer, or any failure, claim, damage or deficiency caused to a unit by improper installation, servicing, relocation, repair or disposing.

- Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, there is risk of fire or explosion.

In the event of refrigerant leakage, to do as follows:

- Evacuate any people from the danger zone.
- From a safe position, switch off the electricity supply for all system components.
- Remove ignition sources from the danger zone.
- Do not operate the unit until repairs are completed.

- Do not pierce or burn.
- Be aware that refrigerants might not contain an odour.
- Do not clean the outdoor unit with water. Electric shock may result.



CAUTION:

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

1. Safety precautions

1.2. General during work



WARNING:

- Keep gas-burning appliances, electric heaters, and other fire sources (ignition sources) away from the location where installation, repair, and other outdoor unit work will be performed.
If refrigerant comes into contact with a flame, a fire or explosion will occur.
- Do not smoke during work and transportation.
- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.
A halide torch (or any other detector using a naked flame) shall not be used.



CAUTION:

- When carrying out work on the refrigerant circuit or working in the protected area, a competent electrician with the requisite professional qualifications must use only the specified and appropriate tools. The following tools are necessary to use R290 refrigerant.

Tools (for R290)	
Gauge manifold	Vacuum pump
Charge hose	Vacuum pump adapter
Gas leak detector	Electronic refrigerant charging scale

- When carrying out work on the refrigerant circuit, take protective measures to prevent static discharges.
- Do not use refrigerant other than R290 refrigerant. If another refrigerant is used, the chlorine will cause the oil to deteriorate.
- Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating systems, (1) to (5) shall be completed prior to conducting work on the systems.

(1) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.

Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(2) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(3) If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

(4) No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it can lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which 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.

(5) 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.

- Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity can be inadequate, or can 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 can react with the refrigerant and corrode the copper pipework.

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. For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

- Steel pipes and components shall be protected against corrosion with a rustproof coating before applying any insulation.

2. Installation location

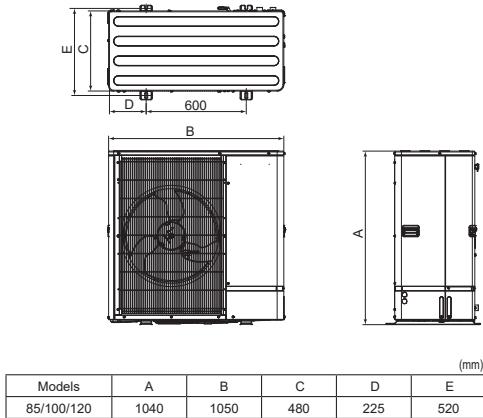


Fig. 2-1

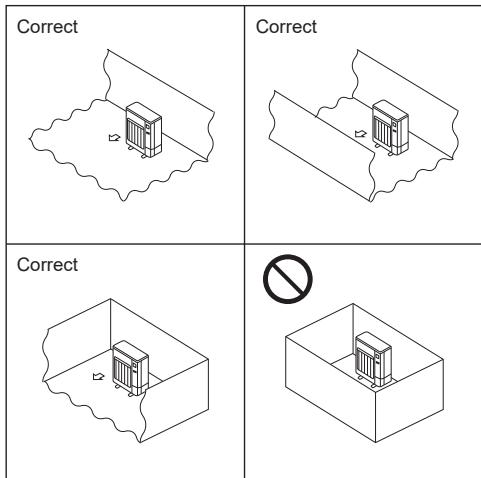


Fig. 2-2

2.1. Outline dimensions (Outdoor unit) (Fig. 2-1)

2.2. Choosing the outdoor unit installation location

- Select a location from which noise emitted by the unit will not inconvenience neighbors.
- Select a location permitting easy wiring and pipe access to the power source and indoor unit.
- Select a level location that can bear the weight and vibration of the unit.
- 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: 2-2)
- Note that water may drain from the unit during operation.



WARNING:

- R290 is heavier than air—as well as other refrigerants—so tends to accumulate at the base (in the vicinity of the floor). If R290 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.
- Do not install the unit where combustible gases may leak, be produced, flow, or accumulate. If combustible gas accumulates around the unit, fire or explosion may result.
- If the outdoor unit is installed in a small room, measures must be taken to prevent the refrigerant concentration in the room from exceeding the safety limit in the event of refrigerant leakage. Consult a installer regarding the appropriate measures to prevent the allowable concentration from being exceeded. Should the refrigerant leak and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.



CAUTION:

- Avoid locations exposed to direct sunlight or other sources of heat.
- Keep any required ventilation openings clear of obstruction.
- Avoid locations exposed to oil, steam, sulfuric gas, and salty places such as the seaside.
- Avoid locations where the unit can be covered by snow. In areas where heavy snow fall is anticipated, special precautions such as raising the installation location or installing a hood on the air intake must be taken to prevent the snow from blocking the air intake or blowing directly against it. This can reduce the airflow and a malfunction may result.

2. Installation location

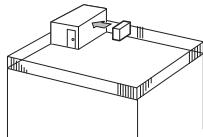


Fig. 2-3

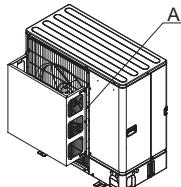


Fig. 2-4

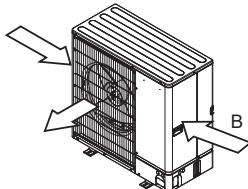


Fig. 2-5

2.2.1. Windy location installation

When installing the outdoor unit on a rooftop or other location unprotected from the wind, situate the air outlet of the unit so that it is not directly exposed to strong winds. Strong wind entering the air outlet may impede the normal airflow and a malfunction may result.

The following shows three examples of precautions against strong winds.

- (1) Face the air outlet towards the nearest available wall 35 cm away from the wall. (Fig. 2-3)
- (2) Install an air guide if the unit is installed in a location where strong winds from a typhoon, etc. may directly enter the air outlet. (Fig. 2-4)
A: Air Protect Guide
- (3) Position the unit so that the air outlet blows perpendicularly to the direction of the wind. (Fig. 2-5)
B: Wind direction

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2. Installation location

2.2.2. An enclosed installation space

If despite the instructions delineated in section "1. Safety precautions" of this Installation Manual you elect to install a unit in a space where all four sides are blocked and/or there are obstructions, you do so at your own risk and volition. Mitsubishi Electric does not warrant or represent the functionality; specification; quality; accuracy; or output deriving from any such unit installed in such a way and shall not be liable for any resulting cost or damage. In the event you still choose to install the unit(s) in such a space, we recommend that you accord with one of the following situations (A, B or C) below, to increase the likelihood of the unit's function in accordance with its specification.

Note: The following recommended Situations are provided solely for the installer to consider safe operations, and do not warrant or guarantee the unit performance against its specification.

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).

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M [kg]	A_{min} [m ²]
0.6	44
0.8	58
1.0	72
1.5	108
2.0	143

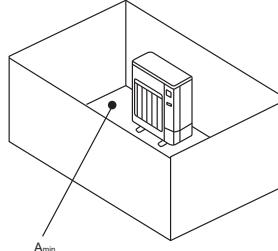
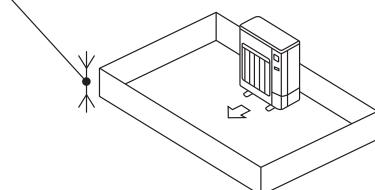


Fig. 2-6

B) Install in a space with a depression height of ≤ 0.1 [m].

Height from the bottom of 0.1 [m] or less



Height from the bottom of 0.1 [m] or less

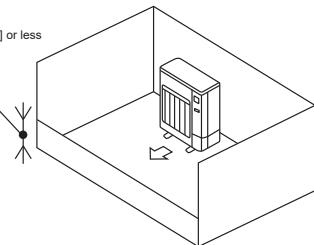


Fig. 2-7

C) Create an opening in the closed face in front of the unit to enable ventilation in the area, ensuring to follow all professional safety instructions and equipment requirements when making the opening through drilling or otherwise.

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 0.1 [m] or less.

Open area should be 75% or more opening.

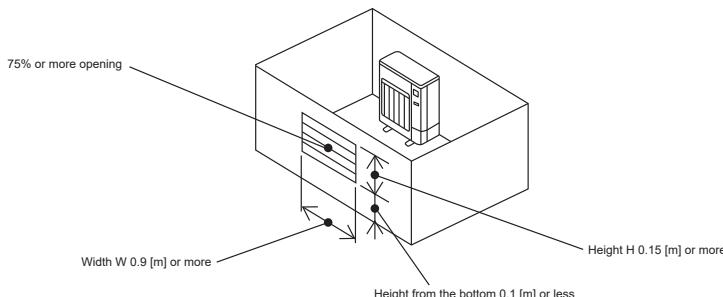


Fig. 2-8

Note: This countermeasure is for keeping safety and specification is not guaranteed.

2. Installation location

2.3. Number of installed units

2.3.1. When installing a single outdoor unit

Minimum dimensions are as follows, except for Max., meaning Maximum dimensions, indicated.

Refer to the figures for each case.

- (1) Obstruction or closed surface at rear only (Fig. 2-9)
 - Do not install an air outlet guide for upward airflow.
- (2) Obstructions or closed surfaces at rear and above only (Fig. 2-10)
 - Do not install an air outlet guide for upward airflow.
- (3) Obstructions or closed surfaces at rear and sides only (Fig. 2-11)
- (4) Obstruction or closed surface at front only (Fig. 2-12)
- (5) Obstructions or closed surfaces at front and rear only (Fig. 2-13)
- (6) Obstructions or closed surfaces at rear, sides, and above only (Fig. 2-14)
 - Do not install an air outlet guide for upward airflow.

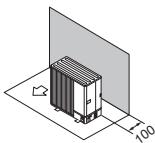


Fig. 2-9

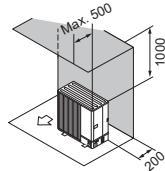


Fig. 2-10

2.3.2. When installing multiple outdoor units

Leave a space of no less than 50 mm between the units.

Refer to the figures for each case.

- (1) Obstruction or closed surface at rear only (Fig. 2-15)
 - No more than 3 units must be installed side by side. In addition, leave space as shown.
- (2) Obstructions or closed surfaces at rear and above only (Fig. 2-16)
 - Do not install air outlet guides for upward airflow.
- (3) Obstruction or closed surface at front only (Fig. 2-17)
- (4) Obstructions or closed surfaces at front and rear only (Fig. 2-18)
- (5) Single parallel unit arrangement (Fig. 2-19)
 - When using air outlet guides installed for upward airflow, the distance between the frontal faces of the units should be no less than 500 mm.
- (6) Multiple parallel unit arrangement (Fig. 2-20)
 - When using air outlet guides installed for upward airflow, the distance between the frontal faces of the units should be no less than 1000 mm.
- (7) Stacked unit arrangement (Fig. 2-21)
 - The units can be stacked up to two units high.
 - No more than 2 stacked units must be installed side by side. In addition, leave space as shown.
- D. Space (Fig. 2-21)

UNIT : mm

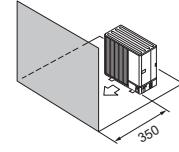


Fig. 2-12

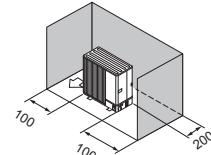


Fig. 2-11

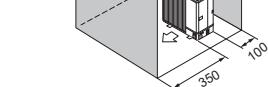


Fig. 2-13

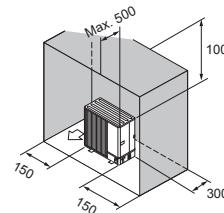


Fig. 2-14

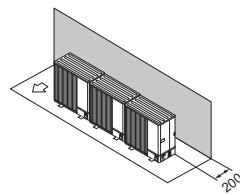


Fig. 2-15

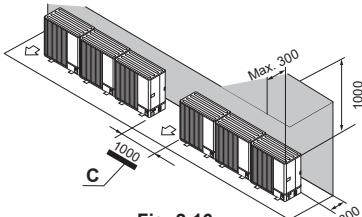


Fig. 2-16

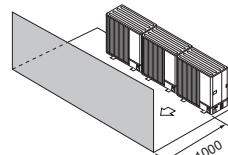


Fig. 2-17

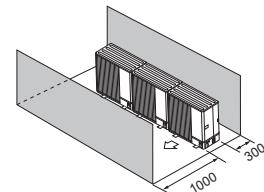


Fig. 2-18

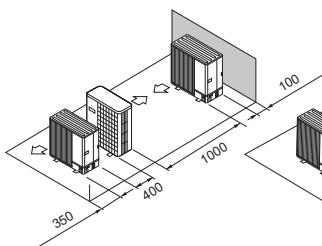


Fig. 2-19

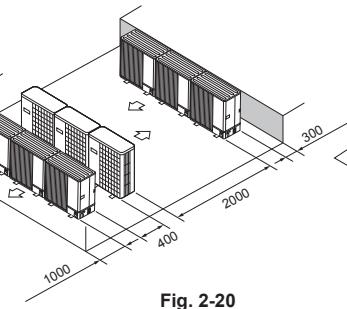


Fig. 2-20

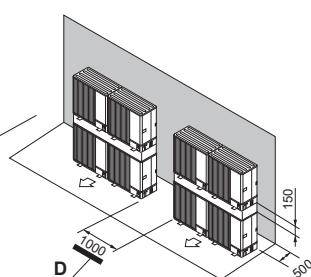


Fig. 2-21

3. Protective zone

The unit contains R290 refrigerant which is highly flammable. Great care must be taken when installing and servicing the unit which must be installed/serviced by a competent electrician, with the requisite professional qualifications to install this unit in your jurisdiction. In the event of a refrigerant leak, the installer and/or person in possession of the unit must ensure that no person is endangered outdoors or in adjacent buildings and no refrigerant has the potential to travel from the unit into the building and drainage systems. If you are concerned about a possible refrigerant leak from your unit, please contact your installer/supplier immediately or contact Mitsubishi Electric in your region directly for more information.

A protective zone must be maintained around the area closest to the unit. See shaded in Fig. 3-1.

- en
- CAUTION:**
- There must not be any building openings, entrance to the basement, grooves or entrance into the waste-water system. (such as windows, doors, ventilation openings or similar opening, flat-roof windows, light shafts, subsidence or depressions in the ground, pump shafts, inlets in sewers and waste water shafts, downpipes etc.)
 - The protective zone must not extend to adjacent buildings or public traffic areas. (such as property boundaries or neighboring properties, footpaths and driveways)
 - Ignition sources must not be present in the protective zone, either permanently or for a short period of time. (such as open flame, electrical systems, sockets, lamps, light switches, electrical connections, sparking tools, objects with high surface temperatures of 470°C or higher)

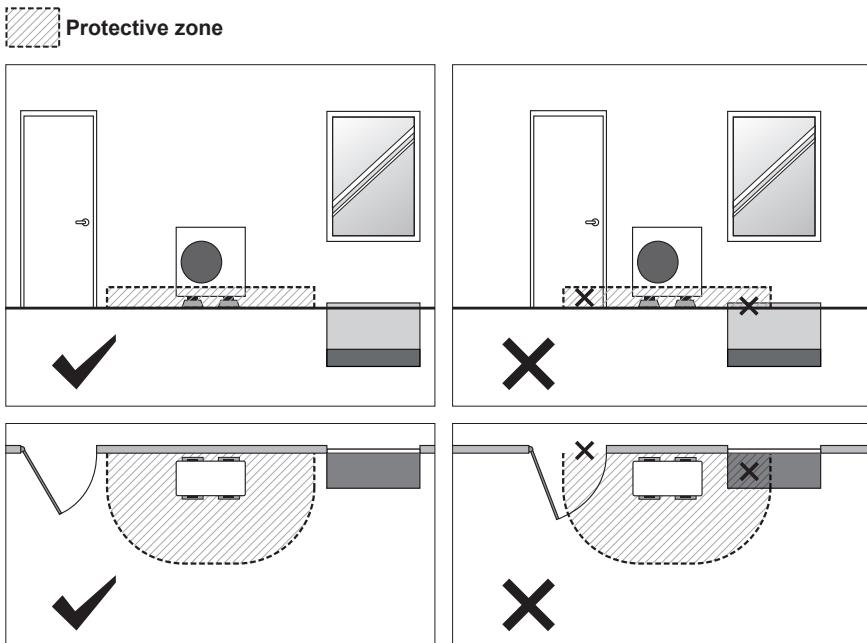


Fig. 3-1

3. Protective zone

- Specific dimensions of the protective zone are specified for each installation condition.

Refer to the figures for each case.

- (1) When installed in a location with an open around (Fig. 3-2)

Define the protective zone as follows:

- 1 m around of the unit
- 0.3 m from the ground.

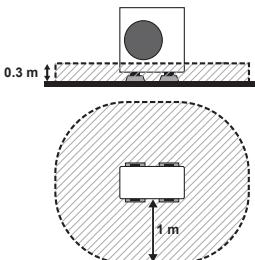


Fig. 3-2

- (2) When installed in a location with 3 surfaces opened (in front of a building wall) (Fig. 3-3)

Define the protective zone as follows:

- 1 m to the sides and to the front of the unit
- the rear of the unit to the wall
- 0.3 m from the ground.

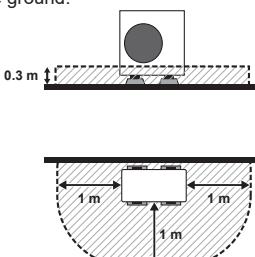


Fig. 3-3

- (3) When installed in a location with 2 surfaces opened (where the distance between one side of the unit and the wall is less than 1 m, e.g. at the corner of a building wall) (Fig. 3-4)

Define the protective zone as follows:

- 1 m to the open side of the unit (A)
- 2.5 m to the front of the unit
- from the side of the unit to the wall (B)
- the rear of the unit to the wall
- 0.3 m from the ground.

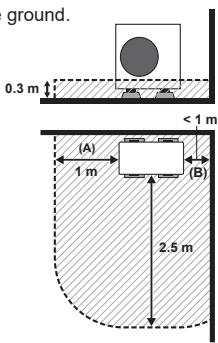


Fig. 3-4

3. Protective zone

(4) When installed in a location where only the front opened (building walls on both sides)

Where the distance between both sides of the unit and the wall is more than 1 m, define the protective zone as follows: (Fig. 3-5)

- 1 m to the sides and to the front of the unit
- the rear of the unit to the wall
- 0.3 m from the ground.

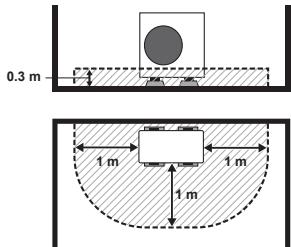


Fig. 3-5

Where the distance between both sides of the unit and the wall is less than 1 m, define the protective zone as follows: (Fig. 3-6)

- from the both sides of the unit to the wall
- 2.5 m to the front of the unit
- the rear of the unit to the wall
- 0.3 m from the ground.

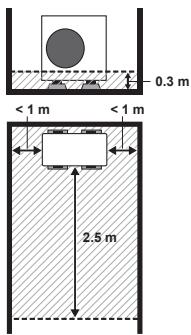


Fig. 3-6

Where the distance between one side of the unit and the wall is less than 1 m, same conditions as shown in Fig. 3-4 apply.

4. Installing the outdoor unit

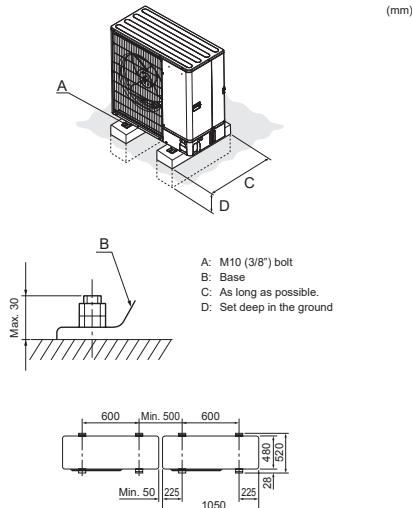


Fig. 4-1

- For installation and relocation work, follow the instructions in the Installation Manual and use tools and pipe components specifically made for use with R290 refrigerant.
- Be sure to install it in an appropriate place according to section "2. Installation location and 3. Protective zone".
- Install the unit on a rigid structure to prevent excessive operation sound or vibration. (Fig. 4-1)

<Foundation specifications>

Foundation bolt	M10 (3/8")
Thickness of concrete	120 mm
Length of bolt	70 mm
Weight-bearing capacity	320 kg

- Make sure that the length of the foundation bolt is within 30 mm of the bottom surface of the base.
- Secure the base of the unit firmly with four-M10 foundation bolts in sturdy locations.
- In addition to the unit base, use the installation holes on the back of the unit to attach wires, etc., if necessary to install the unit. Use self-tapping screws ($\varnothing 5 \times 15$ mm or less) and install on site.



WARNING:

- The unit must be securely installed on a structure that can sustain its weight. If the unit is mounted on an unstable structure, it may fall down and cause damage or injuries.
- When installing the unit, use appropriate protective equipment and tools for safety. Failure to do so could cause injuries.
- Use the transportation handles of the outdoor unit to transport the unit. If the unit is carried from the bottom, hands or fingers may be pinched.
- Be extremely careful when transporting or installing the units. Two or more persons are needed to handle the unit, as it weighs 20 kg or more. Do not grasp the packaging bands. Wear protective gloves to remove the unit from the packaging and to move it, as you can injure your hands on the fins or the edge of other parts.
- Wear protective equipment when touching the bottom of the outdoor unit. Failure to do so could cause injuries.
- The unit must be installed according to the Installation Manual in order to minimize the risk of damage from earthquakes, typhoons, or strong winds. An incorrectly installed unit may fall down and cause damage or injuries.
- The base and attachments of the outdoor unit must be periodically checked for looseness, cracks or other damage. If such defects are left uncorrected, the unit may fall down and cause damage or injuries.
- After installation has been completed, the installer must check for refrigerant leaks by using a professional leak detector tool. If refrigerant leaks into the room and comes into contact with the flame of a heater, or portable cooking range, sparks, static electricity or objects with high surface temperature ($>470^{\circ}\text{C}$), a fire or explosion will occur, and all persons in close or adjacent vicinity of the leak must be immediately advised to move away to a safe distance in order for the area to be checked by a professional.



CAUTION:

- When installing the unit in a hospital or communications office, be prepared for noise and electronic interference. Inverters, home appliances, highfrequency medical equipment, and radio communications equipment can cause the outdoor unit to malfunction or breakdown. The outdoor unit may also affect medical equipment, disturbing medical care, and communications equipment, harming the screen display quality.

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5. Drainage piping work

Outdoor unit drainage pipe connection

When drain piping is necessary, use the drain socket or the drain pan (option).

Drain socket	PAC-SG61DS-E
Drain pan	PAC-SJ83DP-E



CAUTION:

- When drain piping is necessary, the condensate drain must not be connected directly, but e.g. via a siphon to the waste water, rainwater or drainage system.
- The outdoor unit produces condensation during the heating operation. Make sure to provide drainage around the outdoor unit if such condensation is likely to cause damage.
- 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.

6. Water piping work

6.1. Water piping connection (Fig. 6-1)

- Connect the water pipes to the outlet and inlet pipes.
(Parallel male screw for 1-inch water pipe (ISO 228/1-G1B))
- Inlet and outlet pipes position is shown on the Fig. 6-1.
- Install the hydraulic filter at the water intake.
- Maximum allowable torque at the water piping connection is 50 N·m.
- Use 2 spanners to tighten piping connections.
- Check if water leaks after installation.
- Inlet water gauge pressure must be between 0-0.3 MPa.

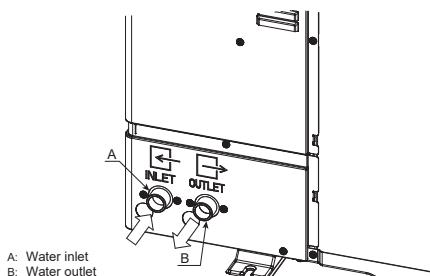


Fig. 6-1



WARNING:

As the outlet water temperature can reach 75°C at maximum, do not touch the water piping directly with a bare hand, otherwise you will get burned.



CAUTION:

- Pipe-work shall be securely mounted and guarded from physical damage.
- The installation of pipe-work shall be kept to a minimum.
- When the unit is running, vibrations or the noise of refrigerant running may be heard from the extension piping. Try to avoid installing the piping to thin walls, etc. as much as possible and provide sound insulation with the piping cover, etc.
- Make sure to perform the frozen prevention measure for water pipe system. (Water piping insulation, back-up pump system, using of a certain % ethylene glycol instead of normal water)

Insulate the water piping properly. The performance can be poor if the insulation is insufficient.

- When using brine, take measures to prevent brine from scattering onto refrigerant circuit parts or electrical parts.
- The water velocity in pipes should be kept within certain limits of material to avoid erosion, corrosion and excessive noise generation.

Be aware, and take care of, that local velocities in small pipes, bends and similar obstructions can exceed the values above.
e.g.) Copper : 1.5 m/s

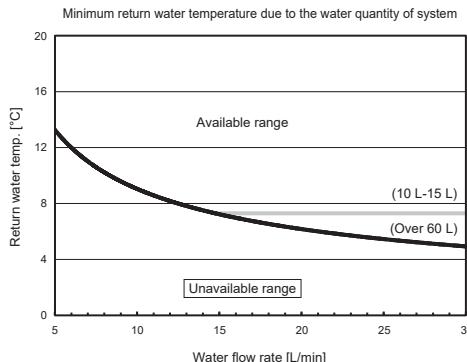
- When connecting metal pipes made of different materials, be sure to insulate the joint to prevent electrolytic etching.

6. Water piping work

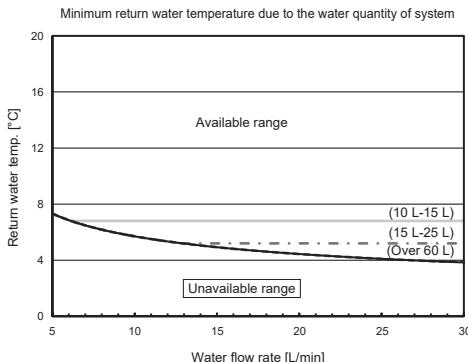
6.4. Available range (Water flow rate, return water temp.)

PUZ-WZ85VAA(-BS), PUZ-WZ85YAA(-BS)

■ Heating



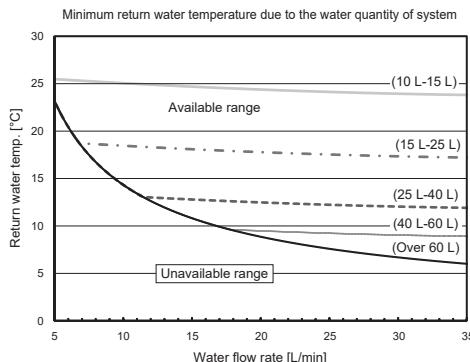
■ Cooling



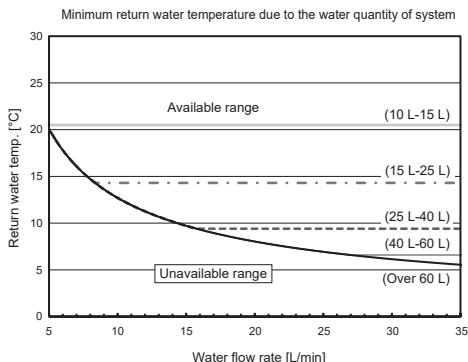
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PUZ-WZ100VAA(-BS), PUZ-WZ100YAA(-BS)
PUZ-WZ120VAA(-BS), PUZ-WZ120YAA(-BS)

■ Heating



■ Cooling



CAUTION:

- Set up a field system so that the inlet water temperature and water flow rate can be within the allowable range specified in our technical data, etc.
If the unit is used out of the allowable range, the parts of unit might be damaged.
- Be sure to avoid the unavailable range during defrosting.
Otherwise, the outdoor unit is insufficiently defrosted and/or the heat exchanger of the indoor unit may freeze.

7. Electrical work

7.1. Outdoor unit (Fig. 7-1, Fig. 7-2)

(1) Remove the service panel.

(2) Wire the cables referring to the Fig. 7-1 and the Fig. 7-2.

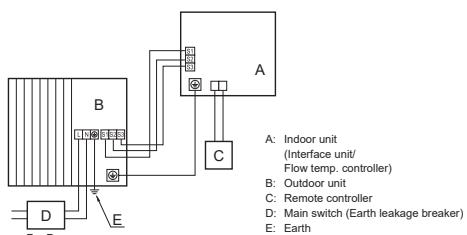


Fig. 7-1

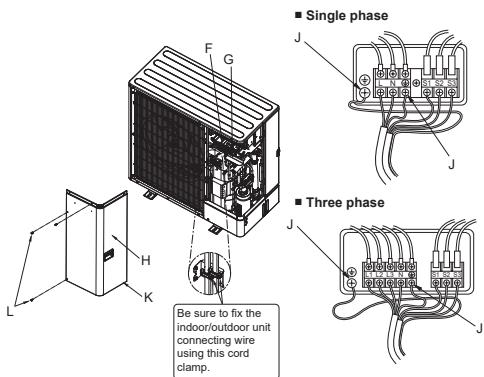


Fig. 7-2

Note:

: Indicates a part which must be grounded.

This appliance incorporates an earth connection for functional purposes.

WARNING:

- Do not damage the refrigerant circuit otherwise refrigerant may leak.
- Be sure to check for refrigerant leakage with a detector before turning on the power. Never turn on the power if there is a refrigerant leak.
- The terminal block cover panel of the outdoor unit must be firmly attached. If the cover panel is mounted incorrectly and dust and moisture enter the unit, electric shock or fire may result.
- Be sure to install circuit breakers. If not installed, electric shock may result.
- For the power lines, use standard cables of sufficient capacity. Otherwise, a short circuit, overheating, or fire may result.
- When installing the power lines, do not apply tension to the cables. If the connections are loosened, the cables can snap or break and overheating or fire may result.
- Be sure to ground the unit. Do not connect the ground wire to gas or water pipes, lightning rods, or telephone grounding lines. If the unit is not properly grounded, electric shock may result.
- 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.

CAUTION:

- Be sure to install N-Line. Without N-Line, it could cause damage to unit.
- Routing wires should be carried out carefully so that the joint clips securing water pipes are not detached.
- Make sure to fill the gaps between the holes and wires with putty when taking out wires through the holes in the panels.
(Flame may spread through the gaps when a fire breaks out.)
- 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.
- 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.

7. Electrical work

7.2. Field electrical wiring

Outdoor unit model	WZ85V	WZ100V	WZ120V	WZ85 - 120Y
Outdoor unit power supply	~N (single), 50 Hz, 230 V	~N (single), 50 Hz, 230 V	~N (single), 50 Hz, 230 V	3N~ (3 ph 4-wires), 50 Hz, 400 V
Outdoor unit input capacity Main switch (Breaker)	*1 25 A	32 A	40 A	16 A
Wiring Wire No. size (mm ²)	Outdoor unit power supply *3 3 × Min. 2.5	3 × Min. 4	3 × Min. 6	5 × Min. 1.5
Circuit rating	Indoor unit-Outdoor unit *2 3 × 1.5 (Polar)	3 × 1.5 (Polar)	3 × 1.5 (Polar)	3 × 1.5 (Polar)
	Indoor unit-Outdoor unit earth *2 1 × Min. 1.5	1 × Min. 1.5	1 × Min. 1.5	1 × Min. 1.5
	Remote controller-Indoor unit *3 2 × 0.3 (Non-polar)	2 × 0.3 (Non-polar)	2 × 0.3 (Non-polar)	2 × 0.3 (Non-polar)
	Outdoor unit L1-N, L2-N, L3-N (3 phase) *4 230 VAC	230 VAC	230 VAC	230 VAC
	Indoor unit-Outdoor unit S1-S2 *4 230 VAC	230 VAC	230 VAC	230 VAC
	Indoor unit-Outdoor unit S2-S3 *4 28 VDC	28 VDC	28 VDC	28 VDC
	Remote controller-Indoor unit *4 12 VDC	12 VDC	12 VDC	12 VDC

*1. A breaker with at least 3.0 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. Max. 45 m

If 2.5 mm² used, Max. 50 m

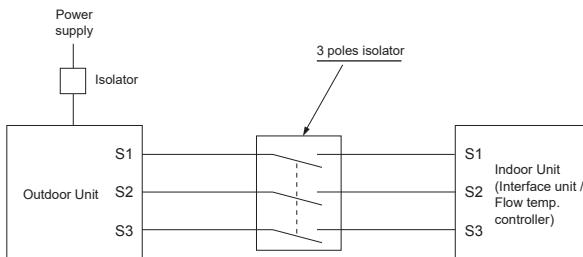
If 2.5 mm² used and S3 separated, Max. 80 m

*3. The 10 m wire is attached in the remote controller accessory.

*4. The figures are NOT always against the ground.

S3 terminal has 28 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 codes.
 2. Power supply cables and the cables between Interface unit/Flow temp. controller and outdoor unit shall not be lighter than polychloroprene sheathed flexible cables. (Design 60245 IEC 57)
 3. Be sure to connect the cables between Interface unit/Flow temp. controller and outdoor unit directly to the units (no intermediate connections are allowed). Intermediate connections may result in communication errors. If water enters at the intermediate connection point, it may cause insufficient insulation to ground or a poor electrical contact.
 - (If an intermediate connection is necessary, be sure to take measures to prevent water from entering the cables.)
 4. Install an earth longer than other cables.
 5. Do not construct a system with a power supply that is turned ON and OFF frequently.
 6. Use self-extinguishing distribution cables for power supply wiring.
 7. Properly route wiring so as not to contact the sheet metal edge or a screw tip.



WARNING:

- In case of A-control wiring, 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-pole type.
 - Never splice the power cable or the indoor-outdoor connection cable, otherwise it may result in a smoke, a fire or communication failure.
 - The units must be powered by dedicated power lines and the correct voltage and circuit breakers must be used. Power lines with insufficient capacity or incorrect electrical work may result in electric shock or fire.
 - 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 the Installation Manual).
- Failure to observe these instructions may result in overheating or a fire.
- Use circuit breakers (ground fault interrupter, isolating switch (+B fuse), and molded case circuit breaker) with the specified capacity. If the circuit breaker capacity is larger than the specified capacity, breakdown or fire may result.

8. Test run

8.1. Before test run

- After completing installation and the wiring and piping of the indoor and outdoor units, check for refrigerant leakage, looseness in the power supply or control wiring, wrong polarity, and no disconnection of one phase in the supply.
- Use a 500-volt megohmmeter to check that the resistance between the power supply terminals and ground is at least 1 MΩ.
- Do not carry out this test on the control wiring (low voltage circuit) terminals.
- Turn on the power at least 12 hours before starting operation.
- The compressor will not operate unless the power supply phase connection is correct.
- The followings must be checked as well.
- The outdoor unit is not faulty. LED1 and LED2 on the control board of the outdoor unit flash when the outdoor unit is faulty.

Insulation resistance

After installation or after the power source to the unit has been cut for an extended period, the insulation resistance will drop below 1 MΩ due to refrigerant accumulating in the compressor. This is not a malfunction. Perform the following procedures.

1. Remove the wires from the compressor and measure the insulation resistance of the compressor.
2. If the insulation resistance is below 1 MΩ, the compressor is faulty or the resistance dropped due the accumulation of refrigerant in the compressor.
3. After connecting the wires to the compressor, the compressor will start to warm up after power is supplied. After supplying power for the times indicated below, measure the insulation resistance again.
 - The insulation resistance drops due to accumulation of refrigerant in the compressor. The resistance will rise above 1 MΩ after the compressor is warmed up for 4 hours.
(The time necessary to warm up the compressor varies according to atmospheric conditions and refrigerant accumulation.)
 - To operate the compressor with refrigerant accumulated in the compressor, the compressor must be warmed up at least 12 hours to prevent breakdown.
4. If the insulation resistance rises above 1 MΩ, the compressor is not faulty.

8.2. Test run

Use a remote controller.

Refer to the indoor unit Installation Manual.



WARNING:

- Before starting operation, check that all panels, guards and other protective parts are correctly installed. Rotating, hot, or high voltage parts can cause injuries.
- Do not touch any switch with wet hands. Electric shock may result.



CAUTION:

- Do not use the outdoor unit if the insulation resistance is less than 1 MΩ.
- Turn on the main power switch more than 12 hours before starting operation. Starting operation just after turning on the power switch can severely damage the internal parts. Keep the main power switch turned on during the operation season.

WARNING:

- Do not touch the refrigerant pipes with bare hands during operation. The refrigerant pipes are hot or cold depending on the condition of the flowing refrigerant. If you touch the pipes, burns or frostbite may result.



CAUTION:

- All automatic air vents installed in indoor water circuits MUST be closed after the air is removed from the water circuit during commissioning.
- After stopping operation, be sure to wait at least five minutes before turning off the main power switch. Otherwise, water leakage or breakdown may result.

Note :

Occasionally, vapor that is made by the defrost operation may seem as if smoke come up from the outdoor unit.

9. System control

Set the refrigerant address using the DIP switch of the outdoor unit.

SW1 Function Setting

SW1 Setting	Refrigerant address
ON OFF 3 4 5 6 7	00
ON OFF 3 4 5 6 7	01
ON OFF 3 4 5 6 7	02

SW1 Setting	Refrigerant address
ON OFF 3 4 5 6 7	03
ON OFF 3 4 5 6 7	04
ON OFF 3 4 5 6 7	05

Note:

- Up to 6 units can be connected.
- Select one single model for all units.
- For Dip switch setting for indoor unit, refer to the indoor unit's Installation Manual.

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10. Handing over to the user

- Explain the following items to the end user.
- How the unit operates.
- The particular risks, the protective zone and rules of conduct that are associated with R290 refrigerant.
- How the unit is avoided from frozen damage when stopping the unit.
- Ask a dealer or an authorized technician to carry out work on the unit.
- Keep the Installation Manual and Operation Manual so that don't lose them.
- Recommend that regular maintenance be performed.
Ask a dealer to perform it.

11. Inspection and maintenance

Refer to the Service Manual for maintenance.



CAUTION:

In addition to annual servicing it is necessary to replace or inspect some parts after a certain period of system operation. Please see tables below for detailed instructions. Replacement and inspection of parts should always be done by a competent person with relevant training and qualifications.

Note:

Parts which require regular inspection

No.	Genre	Parts	Figure	Period	How	Possible failures	Applied models
1	Inspection	Pressure relief valve (3 bar)	Fig. 11-1 (d)	Every 1 year	Turning the knob manually.	PRV would be fixed and expansion vessel would burst.	All models
2	Maintenance	Air vent (Top cap)	Fig. 11-1 (a) / (b)	If necessary	Open top cap for air vent but surely close it after its opening.	Water flow would be lost and performance would be degraded.	All models

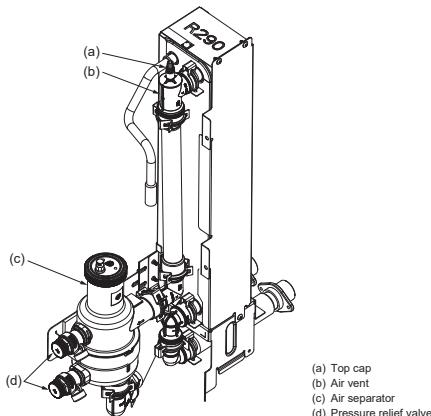


Fig. 11-1

12. Repair and service

Repairs must be carried out in accordance with the Service Manual.

- Work on the refrigerant circuit with flammable refrigerant in safety group A3 may only be carried out by authorised heating contractors. These heating contractors must be trained in accordance with EN 378 Part 4 or IEC 60335-2-40 Annex HH.
- Work on electrical equipment may only be carried out by a qualified electrician.
- Use only spare parts authorized by the manufacturer. In order to not invalidate unit warranty and maintain the correct and safe functioning of the unit, please use only parts and accessories recommended by Mitsubishi Electric, to be installed by a competent electrician with the requisite professional qualifications in your jurisdiction. We accept no liability for damage or expenses caused by the incorrect installation of the unit and/or third party accessories, parts or components, which may result in water leakage, electric shock or fire.
- When breaking into the refrigerant circuit to make repairs – or for any other purpose conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:
 - safely remove refrigerant following local and national regulations
 - evacuate
 - purge the circuit with inert gas
 - evacuate
 - continuously flush with inert gas when using flame to open circuit
 - open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders. An example of an inert gas is oxygen free nitrogen (OFN).

Compressed air or oxygen shall not be used for purging refrigerant systems.

Purging of the refrigerant circuit shall be achieved by breaking the vacuum in the system with inert gas 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.

The system shall be vented down to atmospheric pressure to enable work to take place.

Ensure that the outlet of the vacuum pump is not close to any ignition sources and that ventilation is available.

- When removing refrigerant from a system for servicing, it is required to follow good practice so 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. Empty 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 the flammable refrigerant. Consult manufacturer if in doubt. 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.

The recovered refrigerant shall be processed according to local legislation 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 compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. Draining of oil from a system shall be carried out safely.

- 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 refrigerant charge 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.
- 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 can corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being corroded.

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. 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. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include that:

- capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- no live electrical components and wiring are exposed while charging, recovering or purging the system;
- there is continuity of earth bonding.

- Sealed electrical components shall not be repaired.

- 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 labelled).
- Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system, it shall be pressure tested with the appropriate purging gas. 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.

12. Repair and service

WARNING:

- When the installer is 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.
- When servicing the outdoor unit, use only the specified refrigerant (R290) 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 fill the unit with more refrigerant than the specified amount.
Failure to follow this instruction may result in unit failure or fire hazard.

en

CAUTION:

- Do not use low temperature solder alloy in case of brazing the refrigerant pipes.

13. Decommissioning

13.1. Temporarily decommissioning the unit

1. Switch off all of the isolators to which the unit is connected in the building.
2. Disconnect the unit from the power supply.
3. If there is a risk of frost damage, drain the heating water from the unit.

13.2. Permanently decommissioning the unit

Have a authorised heating contractor permanently decommission the unit.

EU DECLARATION OF CONFORMITY
EU-KONFORMITÄTSERKLÄRUNG
DECLARATION DE CONFORMITÉ UE
EU-KONFORMITEITSVERKLARING
DICHIAZIONE DI CONFORMITÀ UE

ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΕ
EC ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ
DEKLARACIJA ZGODNOSTI UE
EU PROHLÁŠENÍ O SHODE
EÚ VYHĽASENIE O ZHODE

EU MEGFELELŐSÉGI NYILATKOZAT
IZJAVA EU O SKLADNOSTI
DECLARATION DE CONFORMITÉ UE
EU IZJAVA O SUKLADNOSTI
EU IZJAVA O USAGLAŠENOSTI

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS EUROPE LTD.
NETTLEHILL ROAD, HOUSTOUN INDUSTRIAL ESTATE, LIVINGSTON, EH54 5EQ, SCOTLAND, UNITED KINGDOM

I hereby declare under my sole responsibility that the air conditioner(s) and heat pump(s) for use in residential, commercial, and light-industrial environments described below, entkündet hiermit auf meine alleinige Verantwortung, dass die Klimaanlage(n) und Wärmepumpe(n) für das häusliche, kommerzielle und leichtindustrielle Umfeld wie unten beschrieben: déclare par la présente et sous ma propre responsabilité que le(s) climatiseur(s) et la/les pompe(s) à chaleur destinés à un usage dans des environnements résidentiels, commerciaux et d'industrie légère décrits ci-dessous; verklaart hierbij onder eigen verantwoordelijkheid dat de voor huishoudelijke, handels- en lichtindustriële omgevingen bestemde airconditioner(s) en warmtepomp(en) zoals onderstaand beschreven: confermo con la presente, sotto la sua esclusiva responsabilità, che i condizionatori d'aria e le pompe di calore destinati all'utilizzo in ambienti residenziali, commerciali e semi-industriali e descritti di seguito: ut to parov dñlnovei me atpokleistikē euðunā òti to ñi klimatistikā kā ñi ñi aðtñes ðermpórtja ḡa hr̄jht s̄ oikiká, emporiká kā elaperä viðumhverfiká periðállonu þou pteirþrófutuðu tørðarípa deklaripa c̄ nac̄ostajata na svoyj výlyčnou odpovedzialnošć, že klimatizatory i pompy ciepla do zastosowań w środowisku mieszkalnym, handlowym i lekkim uprzemysłowionym opisane ponizej; tímto na vlastní odpověďnost prohlašuje, že níže popsané klimatizační jednotky a tepelná čerpadla pro použití v obytných prostředích, komerčních prostředích a prostředích lehkého průmyslu: týmoto na svou výlučnou zodpovědnost vyhlášuje, že následované klimatizačné jednotky a tepelné čerpadlá určené na používanie v obytných a obchodných priestoroch a v prostredí fahkeho priemysla: alulirov kizárolagos felelőségére nyilatkozik, hogy az általai lakossági, kereskedelmi és kiápolási környezetben való használatra szánt klimaberendezés(ek) és hőszivattyú(uk): na lastno odgovornosti izjavlja, da so spodaj opisane klimatske naprave in toplohitne črpalki, namenjene za uporabo v stanovanjskih, poslovnih in lahkonštirskih okoljih: declară prin prezența, pe proprie răspundere, faptul că aparatelor de climatizare și pompelor de căldură descrise mai jos și destinate utilizării în mediu rezidențial, comercial și din industria usora: ovime izjavljuje pod isključivom odgovornošću da je/su klimatizacijski uređaji(i) i u toplinska dizalica(e) opisani(i) u nastavku namijenjen(i) za upotrebu u stambenim i poslovnim okruženjima te okruženjima lake industrije: ovim izjavljuje na svoju isključuju odgovornost da su klima-uredaji i toplotne pumpe za upotrebu u stambenim, komercijalnim okruženjima i okruženjima lake industrije opisani u nastavku:

MITSUBISHI ELECTRIC, PUZ-WZ85VAA*, PUZ-WZ85VAA*-BS, PUZ-WZ100VAA*, PUZ-WZ100VAA*-BS, PUZ-WZ120VAA*, PUZ-WZ120VAA*-BS, PUZ-WZ85YAA*, PUZ-WZ85YAA*-BS
PUZ-WZ100YAA*, PUZ-WZ100YAA*-BS, PUZ-WZ120YAA*, PUZ-WZ120YAA*-BS

* : , 1, 2, 3, ..., 9

is/are in conformity with provisions of the following Union harmonisation legislation.
die Bestimmungen der folgenden Harmonisierungsrechtsvorschriften der Union erfüllt/erfüllen.
est/sont conforme(s) aux dispositions de la législation d'harmonisation de l'Union suivante.
volde/voldoen aan bepalingen van de volgende harmonisatiewetgeving van de Unie.
sono in conformità con le disposizioni della seguente normativa dell'Unione sull'armonizzazione.
съвместимо/наричано са със следните нормативни акти на Европейския съюз.

są zgodne z przepisami następującego unijnego prawodawstwa harmonizacyjnego.
jsou v souladu s ustanoveniami následujících harmonizačních právních předpisů Unie.
splňajú ustanovenia nasledujúcich harmonizovaných noriem EU.
megfelel(nek) az Unió alábbi harmonizációs jogszabályi előírásainak.
v skladu z določbami naslednje usklajevalne zakonodaje Unije.
sunt în conformitate cu dispozitiile următoarei legiștări de armonizare a Uniunii.
sukladan(i) odredbama sljedećeg zakonodavstva Unije za sukladnost.
u skladu sa odredbama sledetećeg usklajivanja zakonodavstva Unije.

2014/35/EU: Low Voltage Directive
2006/42/EC: Machinery Directive
2014/30/EU: Electromagnetic Compatibility Directive
2009/125/EC: Energy-related Products Directive and Regulation (EU) No 813/2013
2011/65/EU, (EU) 2015/863 and (EU) 2017/2102: RoHS Directive
2014/68/EU: Pressure Equipment Directive

Issued:
UNITED KINGDOM

1 November 2024

Kengo TAKAHASHI
Manager, Quality Assurance Department

UK DECLARATION OF CONFORMITY

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 conditioner(s) and heat pump(s) for use in residential, commercial, and light-industrial environments described below:

MITSUBISHI ELECTRIC, PUZ-WZ85VAA*, PUZ-WZ85VAA*-BS, PUZ-WZ100VAA*, PUZ-WZ100VAA*-BS, PUZ-WZ120VAA*, PUZ-WZ120VAA*-BS, PUZ-WZ85YAA*
PUZ-WZ85YAA*-BS, PUZ-WZ100YAA*, PUZ-WZ100YAA*-BS, PUZ-WZ120YAA*, PUZ-WZ120YAA*-BS
*: , 1, 2, 3, ···, 9

is/are in conformity with provisions of the following UK legislation

The Electrical Equipment (Safety) Regulations 2016
The Supply of Machinery (Safety) Regulations 2008
The Electromagnetic Compatibility Regulations 2016
The Pressure Equipment (Safety) Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
The Ecodesign for Energy-Related Products Regulations 2010

Issued:
UNITED KINGDOM

1 November 2024

Kengo TAKAHASHI
Manager, Quality Assurance Department

Information of spec name plate



Air to Water Heat Pump

MODEL (1) <H>

UK CA 0086 CE 2797

MAX. CURRENT (OUTDOOR ONLY) (2) A

(4) V Hz (7) kg

SERIAL No.

HP PS MPa(bar)

LP PS MPa(bar) YEAR OF MANUFACTURE

MITSUBISHI ELECTRIC CORPORATION

MANUFACTURER - MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS EUROPE LTD.
NETTLEHILL ROAD HOUSTOUN INDUSTRIAL ESTATE

LIVINGSTON EH54 5EQ SCOTLAND. UNITED KINGDOM

MADE IN UNITED KINGDOM

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
PUZ-WZ100VAA(-BS)	30.0	~/N	230	50	R290	0.82	IP24	3.35	33.5	1.50	15.0
PUZ-WZ100YAA(-BS)	12.0	3N~	400	50	R290	0.82	IP24	3.35	33.5	1.50	15.0
PUZ-WZ120VAA(-BS)	37.0	~/N	230	50	R290	0.82	IP24	3.35	33.5	1.50	15.0
PUZ-WZ120YAA(-BS)	12.0	3N~	400	50	R290	0.82	IP24	3.35	33.5	1.50	15.0



Air to Water Heat Pump

MODEL (1) <H>

UK CA CE

MAX. CURRENT (OUTDOOR ONLY) (2) A

(4) V Hz (7) kg

SERIAL No.

HP PS MPa(bar)

LP PS MPa(bar) YEAR OF MANUFACTURE

MITSUBISHI ELECTRIC CORPORATION

MANUFACTURER - MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS EUROPE LTD.
NETTLEHILL ROAD HOUSTOUN INDUSTRIAL ESTATE

LIVINGSTON EH54 5EQ SCOTLAND. UNITED KINGDOM

MADE IN UNITED KINGDOM

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
PUZ-WZ85VAA(-BS)	23.0	~/N	230	50	R290	0.60	IP24	3.35	33.5	1.50	15.0
PUZ-WZ85YAA(-BS)	12.0	3N~	400	50	R290	0.60	IP24	3.35	33.5	1.50	15.0

<ENGLISH>

English is original. The other languages versions are translation of the original.

CAUTION

- Refrigerant leakage may cause suffocation. Provide ventilation in accordance with EN378-1.
- Be sure to wrap insulation around the piping. Direct contact with the bare piping may result in burns or frostbite.
- Never put batteries in your mouth for any reason to avoid accidental ingestion.
- Battery ingestion may cause choking and/or poisoning.
- Install the unit on a rigid structure to prevent excessive operation sound or vibration.
- The A-weighted sound pressure level is below 70dB.
- 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.

<DEUTSCH>

Das Original ist in Englisch. Die anderen Sprachversionen sind vom Original übersetzt.

VORSICHT

- Wenn Kältemittel austritt, kann dies zu Erstickung führen. Sorgen Sie in Übereinstimmung mit EN378-1 für Durchlüftung.
- Die Leitungen müssen isoliert werden. Direkter Kontakt mit nicht isolierten Leitungen kann zu Verbrennungen oder Erfrierungen führen.
- Nehmen Sie niemals Batterien in den Mund, um ein versehentliches Verschlucken zu vermeiden.
- Durch das Verschlucken von Batterien kann es zu Erstickungen und/oder Vergiftungen kommen.
- Installieren Sie das Gerät auf einem stabilen Untergrund, um übermäßigen Betriebsgeräusche oder -schwingungen zu vermeiden.
- Der A-gewichtete Schalldruckpegel ist niedriger als 70dB.
- Dieses Gerät ist vorgesehen für die Nutzung durch Fachleute oder geschultes Personal in Werkstätten, in der Leichtindustrie und in landwirtschaftlichen Betrieben oder für die kommerzielle Nutzung durch Laien.

<FRANÇAIS>

L'anglais est l'original. Les versions fournies dans d'autres langues sont des traductions de l'original.

PRECAUTION

- Une fuite de réfrigérant peut entraîner une asphyxie. Fournissez une ventilation adéquate en accord avec la norme EN378-1.
- Assurez-vous que la tuyauterie est enveloppée d'isolant. Un contact direct avec la tuyauterie nue peut entraîner des brûlures ou des engelures.
- Ne mettez jamais des piles dans la bouche pour quelque raison que ce soit pour éviter de les avaler par accident.
- Le fait d'ingérer des piles peut entraîner un étouffement et/ou un empoisonnement.
- Installez l'appareil sur une structure rigide pour prévenir un bruit de fonctionnement et une vibration excessifs.
- Le niveau de pression acoustique pondéré est en dessous de 70 dB.
- Cet appareil est conçu pour un utilisateur expert ou les utilisateurs formés en magasin, dans l'industrie légère et dans l'agriculture ou dans le commerce par le profane.

<NEDERLANDS>

Het Engels is het origineel. De andere taalversies zijn vertalingen van het origineel.

VOORZICHTIG

- Het lekken van koelvloeistof kan verstikking veroorzaken. Zorg voor ventilatie in overeenstemming met EN378-1.
- Isoleer de leidingen met isolatiemateriaal. Direct contact met de onbedekte leidingen kan leiden tot brandwonden of bevriezing.
- Stop nooit batterijen in uw mond om inslikking te voorkomen.
- Het inslikken van batterijen kan verstikking of vergiftiging veroorzaken.
- Installeer het apparaat op een stabiele structuur om overmatig lawaai of trillingen te voorkomen.
- Het niveau van de geluidsdruk ligt onder 70 dB(A).
- Dit apparaat is bedoeld voor gebruik door ervaren of opgeleide gebruikers in werkplaatsen, in de lichte industrie en op boerderijen, of voor commercieel gebruik door leken.

<ITALIANO>

Il testo originale è redatto in lingua Inglese. Le altre versioni linguistiche rappresentano traduzioni dell'originale.

ATTENZIONE

- Le perdite di refrigerante possono causare asfissia. Prevedere una ventilazione adeguata in conformità con la norma EN378-1.
- Accertarsi di applicare materiale isolante intorno alle tubature. Il contatto diretto con le tubature non schermate può provocare ustioni o congelamento.
- Non introdurre in nessun caso le batterie in bocca onde evitare ingestioni accidentali.
- L'ingestione delle batterie può provocare soffocamento e/o avvelenamento.
- Installare l'unità su una struttura rigida in modo da evitare rumore o vibrazioni eccessive durante il funzionamento.
- Il livello di pressione del suono ponderato A è inferiore a 70dB.
- Questa apparecchiatura è destinata all'utilizzo da parte di utenti esperti o addestrati in negozi, industria leggera o fattorie oppure a un uso commerciale da parte di persone non esperte.

<ΕΛΛΗΝΙΚΑ>

Η γλώσσα του πρωτούπου είναι η αγγλική. Οι εκδόσεις άλλων γλωσσών είναι μεταφράσεις του πρωτούπου.

ΠΡΟΣΟΧΗ

- Η διαρροή του ψυκτικού ενδέχεται να προκαλέσει ασφυξία. Φροντίστε για τον εξαρισμό σύμφωνα με το πρότυπο EN378-1.
- Φροντίστε να τύλιξετε με μονατικό υλικό τη σωλήνωση. Η απευθείας επαφή με τη γυμνή σωλήνωση ενδέχεται να προκαλέσει εγκαύματα ή κρυοπαγήματα.
- Μη βάζετε ποτέ τις μπαταρίες στο στόμα σας για κανένα λόγο ώστε να αποφύγετε την κατά λάθος κατάσταση τους.
- Η κατάσταση μπαταρίων μπορεί να προκαλέσει πινιγμό ή/και δηλητηρίαση.
- Εγκαταστήτε τη μονάδα σε σταθερή κατασκευή ώστε να αποφύγετε τον έντονο ήχο λειτουργίας ή τους κραδασμούς.
- Η Α-σταθμισμένη στάθμη ηχητικής πίεσης είναι κάτω των 70dB.
- Η συσκευή αυτή προορίζεται για χρήση από έμπειρους ή εκπαίδευμένους χρήστες σε καταστήματα, στην έλαφρη βιομηχανία και σε αεροπλήματα, ή για έμπορική χρήση από άτομα τα οποία δεν είναι ειδημόνες.

<ČEŠTINA>

Originál je v angličtině. Ostatní jazykové verze jsou překladem originálu.

POZOR

- Únik chladicího média může způsobit udusení. Zajistěte větrání v souladu s normou EN 378-1.
- Potrubí omotáte izolací. Přímý kontakt s obnaženým potrubím může způsobit popálení nebo omrzliny.
- Nikdy si z žádného důvodu nevkládejte baterie do úst, aby nedošlo k jejich polknutí.
- Polknutí baterie může způsobit dušení a/nebo otravu.
- Jednotku nainstalujte na pevnou konstrukci, aby nedocházelo ke vzniku nadmerného provozního tlaku a vibrací.
- Hladina akustického tlaku je nižší než 70 dB.
- Toto zařízení je určeno pro prodejny, lehký průmysl a farmy, kde je musí obsluhovat odborníci a školení uživatelé, a pro komerční použití, kde je mohou obsluhovat laici.

<POLSKI>

Językiem oryginału jest język angielski. Inne wersje językowe stanowią tłumaczenie oryginału.

UWAGA

- Wyciek czynnika chłodniczego może spowodować uduszenie. Należy zapewnić wentylację zgodnie z normą EN378-1.
- Należy pamiętać, aby owingą izolację wokół przewodów rurowych. Bezpośredni kontakt z niezabezpieczonymi przewodami rurowymi może doprowadzić do poparzeń lub odmrznień.
- Nie wolno wkładać baterii do ust z jakiegokolwiek powodu, aby uniknąć przypadkowego polknienia.
- Polknięcie baterii może spowodować zadławienie i/lub zatrucie.
- Zainstalować urządzenie na sztywnej konstrukcji, aby zapobiec nadmierнемu hałasowi i wibracjom.
- Poziom dźwięku A nie przekracza 70 dB.
- W sklepach, w przemyśle lekkim i w gospodarstwach rolnych urządzenie powinno obsługiwać profesjonalni lub przeszkołeni użytkownicy, a w środowisku handlowym mogą to być osoby nieposiadające fachowej wiedzy.

<БЪЛГАРСКИ>

Оригиналът е текстът на английски език. Версии на други езици са преводи на оригинала.

ВНИМАНИЕ

- Изтичането на хладилен агент може да причини задушаване. Осигурете вентилация съобразно с EN378-1.
- Не забравяйте да поставите изолация на тръбите. Директният контакт с оголени тръби може да причини изгаряне или измръзване.
- При никакви обстоятелства не поставявайте батерите в устата си, в противен случай може да ги погълнете случайно.
- Погълнатето на батерите може да доведе до задавяне и/или отравяне.
- Монтирайте тялото върху твърда конструкция, за да предотвратите прекомерен шум или вибрации по време на работа.
- А-претегленото ниво на звуково налягане е под 70 dB.
- Този уред е предназначен за използване от експерти или обучени потребители в магазини, в леката промишленост и във ферми, или за търговска употреба от неспециалисти.

<SLOVENČINA>

Preklad anglického originálu. Všetky jazykové verzie sú preložené z angličtiny.

UPOZORNENIE

- Únik chladiva môže spôsobiť udusenie. Zabezpečte vetranie podľa normy EN 378-1.
- Nezabudnite potrubie obaliť izoláciou. Príamy kontakt s nezabaleným potrubím môže spôsobiť popáleniny alebo omrzliny.
- Batérie si nikdy z akéhokoľvek dôvodu nekladte do úst, aby nedošlo k ich náhodnému požitíu.
- Požiťte batérii môžete vyuvať dusenie a/alebo otravu.
- Nainštalať jednotku na pevný konštrukčný prvok, aby ste obmedzili nadmerný prevádzkový tluk a vibrácie.
- Hladina akustického tlaku väzenej podľa krvky A je nižšia ako 70 dB.
- Toto zariadenie je určené na používanie odborníkmi alebo zaškoleními používateľmi v komerčných priestoroch, v prostredí ľahkého priemyslu, na farmách, alebo na komerčné použitie bežnými používateľmi.

<MAGYAR>

Az angol változat az eredeti. A többi nyelvi változat az eredeti fordítása.

VIGYÁZAT

- A hűtőközeg szivárgása fulladást okozhat. Gondoskodjon az EN378-1 szabvány előírásai szerinti szellőzésről.
- Feltétlenül szigetelje körbe a csőveket. A csupasz cső megérintése égesi vagy fagyási sértést okozhat.
- Ne vegyen a szájába elemet semmilyen célból, mert véletlenül lenyelheti!
- A lényelt elem fulladást és/vagy mérgezést okozhat.
- A készülék merev szerkezetre szerej fel, hogy megakadályozza a túlzott üzemű zajt és vibrációt.
- Az A-súlyozott hangnyomásszint 70 dB alatt van.
- A készülék üzletek, a könyvüzárok és gazdaságok szakértő vagy képzett felhasználói, valamint laikus felhasználók általi kereskedelmi használatra készült.

<SLOVENŠCINA>

Izvirnik je v angleščini. Druge jezikovne različice so prevedeni izvirnika.

POZOR

- Puščanje hladiva lahko povzroči zadušitev. Zagotovite prezarečevanje po standardu EN378-1.
- Cevi ovijte z izolacijo. Neposredni stik z golimi cevmi lahko povzroči oprekline ali ozobljine.
- Nikoli in iz nobenega razloga ne vstavljajte baterij v usta, da jih po nesreči ne pogolnete.
- Če baterije pogolnete, se lahko zadušite in/ali zastrupite.
- Enoto namestite na togo konstrukcijo, da preprečite pretiran zvok ali tresljaje med delovanjem.
- A-utežena raven zvočnega tlaka je pod 70 dB.
- Naprava je namenjena za uporabo s strani strokovnih ali ustrezno usposobljenih uporabnikov v trgovinah, lahki industriji in na kmetijah ter za komercialno uporabo s strani nestrokovnih uporabnikov.

<ROMÂNĂ>

Textul original este în limba engleză. Versiunile pentru celelalte limbi sunt traduceri ale originalului.

ATENȚIE

- Scurgerea de agent frigorific poate cauza asfixierea. Asigurați o ventilație corespunzătoare, conform standardului EN378-1.
- Asigurați-vă că înfășurați materialul izolator în jurul conductelor. Contactul direct cu conductele neizolate se poate solda cu arsuri sau degerături.
- Nu introduceți niciodată și pentru niciun motiv bateriile în gură, pentru a evita îngerearea accidentală a acestora.
- Îngerearea bateriilor poate cauza sufocarea și/sau intoxicaarea.
- Instalați unitatea pe o structură rigidă pentru a preveni producerea unui nivel excesiv de sunete sau vibrări.
- Nivelul de presiune acustică ponderat în A este mai mic de 70 dB.
- Acest aparat este destinat utilizării de către utilizatori specializați sau instruiți în cadrul spațiilor comerciale, spațiilor din cadrul industriei ușoare și al fermelor sau în scopuri comerciale de către nespecialiști.

<HRVATSKI>

Tekst je izvorno napisan na engleskom jeziku. Tekst na ostalim jezicima predstavlja prijevod izvorno napisanog teksta.

OPREZ

- Curenje rashladnog sredstva može uzrokovati gušenje. Osigurajte ventilaciju u skladu s normom HR EN378-1.
- Obvezno stavite izolaciju oko položenih cjevi. Izravni doticaj s golim cijevima može dovesti do opeklina ili smrzavanja.
- Nikada ne stavljajte baterije u usta ni zbog kojeg razloga kako biste izbjegli slučajno gutanje.
- Gutanje baterija može prouzročiti gušenje i/ili trovanje.
- Postavite jedinicu na čvrstu površinu kako biste izbjegli prebučan zvuk tijekom rada ili pojavu vibracija.
- Razina zvučnog tlaka A niža je od 70dB.
- Ovaj uređaj mogu upotrebljavati stručnjaci ili osposobljeni korisnici u trgovinama, u akcijskoj industriji i na poljoprivrednim gospodarstvima ili laici u komercijalne svrhe.

<SRPSKI>

Prevod originala. Verzije na drugim jezicima su prevodi originala.

OPREZ

- Curenje rashladne tečnosti može da dovede do gušenja. Obezbedite ventilaciju u skladu sa EN378-1.
- Obavezno obmotajte izolaciju oko cevi. Direktan kontakt sa golom cevi može izazvati opekotine ili promrzline.
- Nikada nemojte stavljati baterije u usta iz bilo kog razloga, kako bi se sprečilo slučajno gutanje.
- Gutanje baterija može da izazove gušenje i/ili trovanje.
- Ugradite jedinicu na čvrstu strukturu kako biste sprečili previše jak zvuk rada ili vibracije.
- A-ponderisani nivo jačine pritiska zvuka je ispod 70 dB.
- Ovaj uređaj je namenjen za upotrebu od strane stručnih ili obučenih korisnika u prodavnicama, u akcijskoj industriji i na farmama ili za komercijalnu upotrebu od strane nekvalifikovanih lica.

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

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