

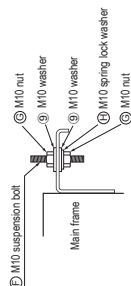
(2) Ceiling concealed type (SRR)
Models SRR25ZS-W, 35ZS-W

RJ012A003F FOR MODEL SRR SERIES R32/R410A REFRIGERANT USED CAUTION Carry out the electrical work for ground lead with care. Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting. Use the circuit breaker of correct capacity. Circuit breaker should be able to disconnect all poles under over current. Use the correct cable of correct size, which causes the system flame and fire. Install isolator or correct connect switch on the power source wiring in accordance with the local codes and regulations. Be sure to install indoor unit properly according to instruction manual so that drainage unit can run off smoothly. Improper installation of indoor unit can cause dripping water into the room and damaging personal property. Install the drainage pipe to run off drainage securely according to the installation manual. Incorrect installation of the drainage pipe can cause dripping water into the room and damaging personal property. Be sure to make P- and A-bleedings. Check if the drainage runs off securely during commissioning and ensure the space for inspection and maintenance. After maintenance, all wiring, wiring ties and the like, should be returned from their original state and wiring route, and the necessary clearance from all metal parts should be secured. Secure a space for installation, inspection and maintenance Insufficient space can result in accident such as personal injury due to falling from the installation place. Take care when carrying the unit by hand. If the unit weights more than 20kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle	CAUTION Do not install the unit where corrosive gas (such as sulfuric acid gas etc.) or combustible gas (such as thinner and petroleum gases) can accumulate or collect, or where volatile combustible substances are handled. Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire. Do not use the indoor unit at the place where water splashes may occur such as in laundries. Do not install the unit in the waterproof place, it can cause electric shocks and fire. Do not install the unit in the place close to the equipment that generates electromagnetic fields or high frequency harmonics. Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming. Do not place any variables which will be damaged by getting wet under the indoor unit. Drainage pipe's fluidity is higher than 80%, or drainage pipe is clogged, condensation or drainage water can drop and it can cause the damage of variables. Do not install the remote control at the direct sunlight. It can cause malfunction or deformation of the remote control. Do not use the unit for special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art. It can cause the damage of the items. Do not try to connect the unit with a fuse with the correct rating in the box with the fuse to be used. Connecting the circuit with copper wire or other metal thread can cause unit failure and fire. Do not touch any buttons with wet hands. Do not touch any refrigerant pipes with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frostbite. Do not wash the inside of the air-conditioner. Water leakage and permanent damage may result. Electrical hazard exists.	CAUTION Do not install the unit in the locations listed below. Locations where carbon fiber, metal powder or any powder is floating. Locations where any substances that can affect the unit such as sulphide gas, chlorine gas, acid and alkaline can occur. Vehicles and ships. Locations where cosmetic or special sprays are often used. Locations with direct exposure of oil mist and steam such as kitchen and machine plant. Locations where any machines which generate high frequency harmonics exist. Locations with salty atmospheres such as coastlines. Locations with heavy snow (if installed, be sure to provide base flame and snow hold mentioned in the manual). Locations where the unit is exposed to chimney smoke. Locations at high altitude (more than 1000m high). Locations with aromatic atmospheres (e.g. organic fertilizer). Locations with calcium chloride (e.g. snow melting agent). Locations where heat radiation from other heat source can affect the unit. Locations with any obstacles which can prevent inlet and outlet air of the unit. Locations where short circuit of air can occur (in case of multiple units installation). Locations where strong air flows against the air outlet of outdoor unit. Locations where something located above the unit could fall. It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire. Do not install the indoor unit in the locations listed below (Be sure to refer to instruction manual according to each manual for each model because each according to each limitation). Locations with any obstacles which can prevent inlet and outlet air of the unit. Locations where vibration can be amplified due to insufficient strength of structure. Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam (in case of the infrared specification unit). Locations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1m). Locations where the unit is placed near a fire alarm, fire extinguisher, etc. It can affect performance or function and safety. Do not install the unit near the location where leakage of combustible gases can occur. If leaked gases accumulate around the unit, it can cause fire.	WARNING Tighten the flare nut by torque wrench with specified method. Improper work can cause electric shocks and fire. Do not touch the fan blades or fan guard after along period. The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit. Power source with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire. Do not touch the fan blades or fan guard after the electrical work. Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment. Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. Unconformable cables can cause electric leak, anomalous heat production or fire. This appliance must be connected to main power source by means of a three-pole circuit breaker or switch (type:RA) with a contact separation of at least 3mm. Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat. Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly. Incorrect installation may result in overheating and fire. Be sure to switch off the power source in the event of installation, inspection or servicing. If the power source is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan. Be sure to wear safety glasses when working with gloves while at work. Earth leakage breaker must be installed. If the earth leakage breaker is not installed, it can cause electric shocks. Do not bundle or wind or process the power cord. Do not deform the power cord or heating it. This may cause fire or heating. Do not vent R32 or R410A into atmosphere. R32 is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 675. R410A is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 2088. Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shocks. Do not perform any change of protective device itself or its setup without permission. The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst.
SAFETY PRECAUTIONS A wired remote control unit is supplied separately as an optional part. While installing the unit, be sure to check the selection of installation place, power source specifications, usage limitation (piping length, height differences between indoor and outdoor units, power source voltage etc.) and installation spaces. Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user. Before starting the installation work, proper precautions (using suitable protective clothing, gloves etc.) should be taken by qualified installer. Pay attention not to fall down the tools, etc. when installing the unit at the high position. If unusual noise can be heard during operation, consult the dealer. The meanings of "Marks" used here are shown as follows. WARNING Never do it under any circumstances. Always do it according to the instruction.	WARNING Installation must be carried out by the qualified installer. Unsuitable installation locations can cause the unit to fail resulting in fire. Ventilate the working area well in the event of refrigerant leakage during installation. If the refrigerant comes into contact with naked flames, poisonous gas is produced. When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage, referred by the formula (accordance with ISO5149). Dealer and installer must install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accident. After completing installation, check that no refrigerant leaks from the system. If refrigerant leaks into the room and comes into contact with an oven or other hot surface, poisonous gas is produced. Use the prescribed pipes, flare nuts and tools for R32 or R410A. Be sure to wear safety glasses when working with gloves while at work and serious accidents due to burst of the refrigerant circuit.	WARNING Do not put the drainage pipe directly into drainage channels where poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury. Do not splice the power cord, or share the socket with other power plugs. This may cause fire or electric shock due to defective contact, defective insulation and over-current etc.	WARNING Installation must be carried out by the qualified installer. Unsuitable installation locations can cause the unit to fail resulting in fire. Ventilate the working area well in the event of refrigerant leakage during installation. If the refrigerant comes into contact with naked flames, poisonous gas is produced. When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage, referred by the formula (accordance with ISO5149). Dealer and installer must install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accident. After completing installation, check that no refrigerant leaks from the system. If refrigerant leaks into the room and comes into contact with an oven or other hot surface, poisonous gas is produced. Use the prescribed pipes, flare nuts and tools for R32 or R410A. Be sure to wear safety glasses when working with gloves while at work and serious accidents due to burst of the refrigerant circuit.

INSTALLATION OF INDOOR UNIT

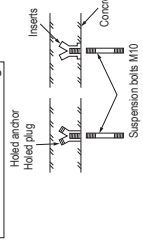
Installing the main unit

- Attach the washers and nuts to the suspension bolts.
- Attach the hanging rod to the above nuts, and tighten the nuts.

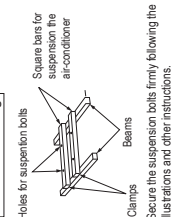


Securing the suspension bolts

If steel embedded ceiling



If wooden ceiling



- Secure the suspension bolts firmly following the illustrations and other instructions.

CONNECTION OF REFRIGERANT PIPES

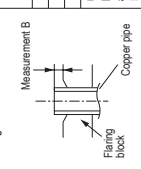
- Keep the openings of the pipes covered with tapes etc. to prevent dust, sand, etc. from entering them.

Preparation



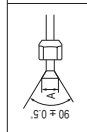
- Remove the flared nuts (on both liquid and gas sides)

Flaring work



Copper pipe diameter	Measurement B (mm)	
	Clutch type	Conventional (R22) flare tool
φ6.35	0.0 - 0.5	1.0 - 1.5
φ9.52	0.0 - 0.5	1.0 - 1.5
φ12.7	0.0 - 0.5	1.0 - 1.5
		2.0 - 2.5

Use a flare tool designed for R32, R410A or a conventional flare tool.
Note that measurement B (protrusion from the flaring block) will vary depending on the type of a flare tool in use.
If a conventional flare tool is used, use a copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct value.



CAUTION

Do not use refrigerating machine oil to the flared surface.

- Connect the pipes on both liquid and gas sides.

○ Tighten the nuts to the following torque.
Liquid side side (L: 1.8 kgf·m)
Gas side (φ6.35): 34.0 - 42.0 N·m (3.4 - 4.2 kgf·m)
(φ9.52): 48.0 - 61.0 N·m (4.8 - 6.1 kgf·m)

CAUTION

Do not apply excess torque to the flared nuts.
Otherwise, the flared nuts may crack.

Connection

Indoor



- Connect the pipes on both liquid and gas sides.

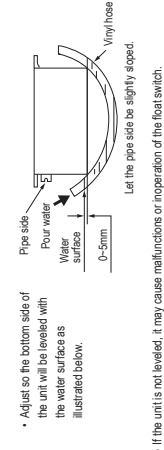
○ Tighten the nuts to the following torque.
Liquid side side (L: 1.8 kgf·m)
Gas side (φ6.35): 34.0 - 42.0 N·m (3.4 - 4.2 kgf·m)
(φ9.52): 48.0 - 61.0 N·m (4.8 - 6.1 kgf·m)

CAUTION

Do not apply excess torque to the flared nuts.
Otherwise, the flared nuts may crack.

Adjustment for horizontality

- Either use a level vial, or adjust the level according to the method below.



- If the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

Air inlet and outlet size

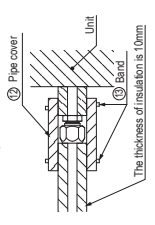
- Size of air inlet and outlet of the plate.

Model	A	B
25_35	160	660
50_60	99	860

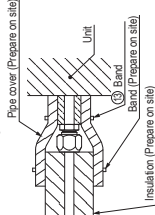
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached bands.

- Make sure to insulate both gas pipes and liquid pipes completely.
- ※ Incomplete insulation may cause dew condensation or water dripping.
- Use heat-resistant (120 °C or more) insulations on the gas side pipes.
- In case of using at high humidity condition, reinforce insulation of refrigerant pipes.
- Surface of insulation may cause dew condition or water dripping, if insulations are not reinforced.

< The case of using reinforced insulation >



< The case of using reinforced insulation >

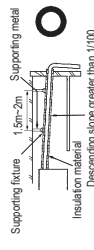


DRAIN PIPE

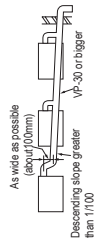
- Install the drain pipe according to the installation manual in order to drain properly.
- Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.

Work procedure

- (1) Insert the joint to the drain hose on the indoor unit and fix it securely with the clamp (small).
• Do not apply adhesives on this end.
- (2) Connect the drain pipe (VP25) to the joint and fix it securely with the clamp (big).
- (3) Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
• Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
• Do not set up air vent.

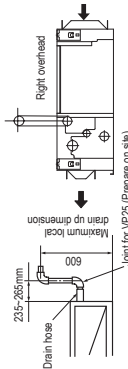


- When shaping a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



Drain up

- The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



Drain test

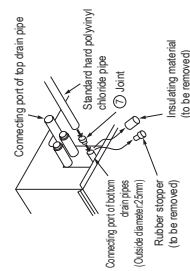
- Conduct a drainage test after completion of the electrical work and piping work.
- During the test, make sure that drain flows properly through the piping and that no water leaks from connections.
- In case of a new building, conduct the test before it is furnished with the ceiling.
- Be sure to conduct this test even when the unit is installed in the heating season.

Procedures of drain test

- (1) Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
- (2) Check the drain while cooling operation.

Outline of bottom drain piping work

- If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



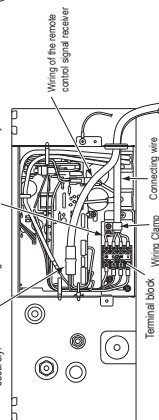
ELECTRICAL WIRING WORK

Preparation of indoor unit ○ In case of faulty wiring connection, indoor unit does not operate. Then, run lamp turns on and timer lamp blinks.

Mounting of connecting wires

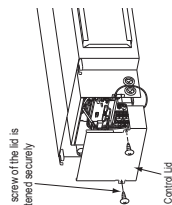
- (1) Remove the control lid.
- (2) Remove the wiring clamp.
- (3) Connect the connecting wire to the terminal block.
○ Connect the wire accurately, if the wire is not affixed completely, contact will be poor, and it is dangerous as the terminal block may heat up and catch fire.
- (4) Fix the connecting wire by wiring clamp.
- (5) Connect the connector of the remote control signal receiver to the relay wiring.
- (6) Attach the control lid.

Be sure to connect securely.



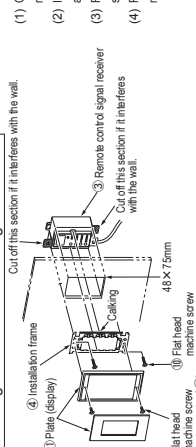
Use cables for interconnection wiring to avoid loosening of the wires.
CENELEC code for cables Required field cables.

- H05RN4G1.5 (example) or 245EC57
H Harmonized cable type
05 300/500 volts
R Natural-and/or synth. rubber wire insulation
R Polythiophene rubber conductors insulation
R Number of conductors
4x05 One conductor of the cable is the earth conductor (yellow/green)
1.5 Section of copper wire (mm²)



Securing the remote control signal receiver

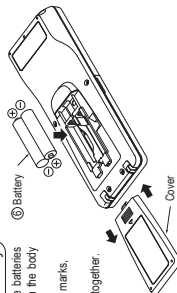
- (1) Open a through-hole on the wall to install the reception base for the remote control signal receiver (3).
- (2) Insert the remote control signal receiver (3) in the installation frame (4), and fix the calling section.
- (3) Fix the installation frame (4) on the wall using the flat head machine screws (1).
- (4) Fix the plate (display) (1) on the installation frame (4) using the flat head machine screws packed together with the plate (display) (1).



INSTALLATION OF WIRELESS REMOTE CONTROL

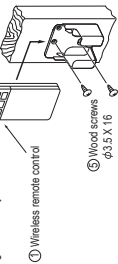
Mounting method of battery

- Pull out the cover and mount the batteries R03 (AAA, Micro X 2 pieces) in the body regularly.
- (Fit the poles with the indication marks, ⊕ & ⊖ without fail)
- Do not use new and old batteries together.



Fixing to pillar or wall

- Conventionally, operate the wireless remote control by holding in your hand.
- Avoid installing it on a clay wall etc.

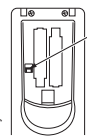


INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

When two air-conditioners are installed in the same room, use this setting when the two air-conditioners are not operated with one remote control. Set the remote control and indoor unit.

Setting the remote control

- (1) Pull out the cover and take out batteries.
- (2) Disconnect the switching line next to the battery with wire cutters.



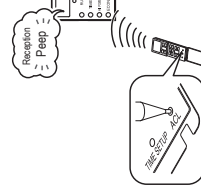
Disconnect

- (3) Insert batteries. Close the cover.

Setting an indoor unit

- (1) Turn off the power source, and turn it on after 1 minute.
- (2) Point the remote control that was set according to the procedure described on the left side at the unit display section and send a signal by pressing the ACL switch on the remote control.
- (3) Check that the reception buzzer sound "Peep" is emitted from the indoor unit.

At completion of the setting, the indoor unit emits a buzzer sound "Peep". (If no reception tone is emitted, start the setting from the beginning again.)

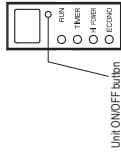


HOW TO RELOCATE OR DISPOSE OF THE UNIT

- Pump down the method of recovering refrigerant from the indoor unit to the outdoor unit when the pipes are removed from the unit.
- Forced cooling operation
Turn off power source. Turn on power source again after a while. Then, press the ON/OFF button continuously for at least 5 seconds. (The operation will start.)

<How to pump down>

- (1) Connect charge hose to check joint of outdoor unit.
- (2) Liquid side: Fully open the gas valve.
Gas side: Fully open the gas valve.
Carry out cooling operation. (If indoor temperature is low, operate forced cooling operation.)
- (3) After low pressure gauge become 0.01MPa, stop cooling operation and close the gas valve.



TERMINAL CONNECTION FOR AN INTERFACE

- (1) Remove the control lid. (Remove the screw.)
- (2) There is a terminal (respectively marked with CNS) for the indoor control board. (If necessary, connect the respective terminal and security terminal connection harness supplied with an optional "Interface connection kit SC-BIKNE and SC-BIKNE-E" to the terminal block on the control board.)

For more details, please refer to the user's manual of your "Interface connection kit SC-BIKNE-E and SC-BIKNE-E".

INSTALLATION TEST CHECK POINTS

Check the following points again after completion of the installation, and before turning on the power. Conduct a test run again and ensure that the unit operates properly. Explain to the customer how to use the unit and how to take care of the unit following the installation manual.

After installation

- ☐ Power cables and connecting wires are securely fixed to the terminal block. (Both indoor and outdoor)
- ☐ The power source voltage is correct as the rating.
- ☐ The drain hose is fixed securely.
- ☐ Service valve is fully open.

Test run

- ☐ Air-conditioning operation is normal.
- ☐ No abnormal noise.
- ☐ Water drains smoothly.
- ☐ Protective functions are not working.
- ☐ The remote control is normal.

- ☐ No gas leaks from the joints of the service valve.
- ☐ The pipe joints for indoor and outdoor pipes have been insulated.
- ☐ The screw of the control lid is tightened securely.

Operation of the unit has been explained to the customer. (Three-minute restart preventive timer)
When the air-conditioner is restarted after changing the operation, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not a malfunction.

Техника для климата

Доставляем оборудование по всей России от 3 дней транспортными компаниями. Реализуем проекты в десятках регионов — от Калининграда до Владивостока.

9600+

объектов и поставок

от 1 дня

отгрузки в транспортную компанию

Технические данные файла

Документ: Инструкция по монтажу Mitsubishi Heavy Industries SRR25-35ZS-W: канальные внутренние блоки (англ.)

Идентификатор библиотеки: LIB-005184

Исходный файл: mitsubishi-heavy-industries-srr25-35zs-w-instruktsiya-montazh.pdf

SHA-256 оригинала: 7b9e7447385847c3ec1c6851a47abdc7847c359c4297cef0cb6efa8d7e6fee0b

Постоянная ссылка: <https://iclim.ru/library/mitsubishi-heavy-industries-srr25-35zs-w-instruktsiya-montazh.pdf>

Копия сформирована: 02.10.2026 04:21 UTC