

SPLIT TYPE ROOM AIR CONDITIONER INSTALLATION MANUAL (PART NO. 9312853014-01)

This air conditioner uses new refrigerant R410A.

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

- Since the working pressure is 1.6 times higher than that of conventional refrigerant(R22) models, some of the piping and installation and service tools are special (see the Table below). Especially, when replacing a conventional refrigerant(R22) model with a new refrigerant R410A model, always replace the conventional piping and flare nuts with the R410A piping and flare nuts.
- Models that use refrigerant R410A have a different charging port thread diameter to prevent erroneous charging with conventional refrigerant(R22) and for safety. Therefore, check beforehand (The charging port thread diameter for R410A is 1/2 threads per inch.)
- Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant(R22) models. Also, confirm starting the piping accurately (avoid the opening by pinching, tapping, etc.).
- When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side where composition is stable.

Special tools for R410A

Tool name	Contents of change
Charge manifold	Pressure is high and cannot be measured with a conventional gauge. To prevent erroneous charging of other refrigerants, the diameter of each pipe that is used should be changed. It is recommended that gauge with scale 0.1 to 1.0 MPa is 1/2 to 3/4 inch for high pressure, 1/2 to 1.0 MPa is 1/2 to 3/4 inch for low pressure.
Charge hose	To increase pressure resistance, the hose material and hose size were changed.
Vacuum pump	A conventional vacuum pump can be used by installing a vacuum pump adapter.
Gas leakage detector	Special gas leakage detector for R410A refrigerant R410A.

Copper pipes

It is necessary to use seamless copper pipes and it is stipulated that the amount of residual oil is less than 40 mg/kg. Also, the oil rate in copper pipes having a longitudinal, circumferential or discolored portion (especially on the internal surface). Other than, the expansion valve or capillary tube may become blocked with condensed oil.

As an air conditioner using R410A increases pressure higher than when using R22, it is necessary to choose adequate material.

Thicknesses of copper pipes used with R410A are as shown in Table 1. However, copper pipes thicker than 5.0mm were when it is available in the market.

WARNING

- Do not use the existing (for R22) piping and flare nuts.
 - When existing materials are used, the pressure inside the refrigerant cycle will rise and cause breakage, injury, etc. (see the special for R410A materials.)
- When installing and servicing the air conditioner, do not mix gas other than the specified refrigerant(R410A) to enter the refrigerant cycle.
 - When an oil/gas mixture (the refrigerant cycle, the pressure inside the cycle will rise to an abnormally high value and cause breakage, injury, etc.).

Table 1 Thickness of Seamless Copper Pipes

Refrigerant	Inner diameter (mm)	Thickness (mm)
R410A	6.35	0.80
R410A	9.52	1.00
R410A	12.7	1.20

SELECTING THE MOUNTING POSITION

Select the mounting position with the reference as follows.

1. INDOOR UNIT

- Install the indoor unit level on a strong wall which is not subjected to vibration.
- The pipe and cable ports should not be obstructed. (It is stipulated as follows to select the position.)
- Install the unit with an electric outlet or special electric outlet.
- Do not install the unit where there is direct sunlight.
- Install the unit where the position is the position with a pipe.
- Take into account the vibration and noise of the unit when selecting the position.
- Take into account the vibration and noise of the unit when selecting the position.

2. OUTDOOR UNIT

- Whenever, do not install the unit where it will be exposed to direct sunlight or rain. If necessary, install a filter that does not interfere with the air flow.
- Do not install the unit where a strong vibration or noise is caused.
- Do not install the unit where people pass.
- Do not install the unit where there are no electric outlets.
- Do not install the unit where there are no electric outlets.
- Do not install the unit where there are no electric outlets.
- Do not install the unit where there are no electric outlets.

CAUTION

Install all of the parts with the correct orientation of the indoor and outdoor units and install precisely so that the units will not topple or fall.

CAUTION

- Do not install where there is the danger of toxic, flammable gas leakage.
- Do not install near heat sources.
- If children under 10 years old may approach the unit, take preventive measures so that they can not reach the unit.
- Install the outdoor unit on the roof where the height from the floor is more than 220 cm.

Outdoor unit piping direction

The piping can be constructed in the direction indicated in (1), (2), (3), and (4) in Fig. 1. When the piping is constructed in the direction (2) or (3), cut along the piping groove for the side of the indoor unit with a hand saw.

When connecting the piping in direction (2), cut a notch in the side wall at the lower bottom of the under cover.



INSTALLATION DIAGRAM OF INDOOR AND OUTDOOR UNITS

Fig. 2

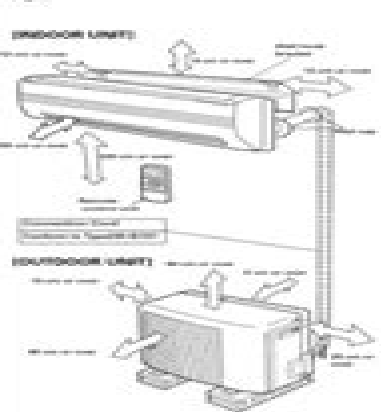


Fig. 3



For authorized service personnel only.

WARNING

- For the basic installation to operate satisfactorily, install it as outlined in this installation manual.
- Connect the indoor unit and outdoor unit with the air conditioner piping and cords available elsewhere parts. This installation manual describes the correct connections using the standard accessories and the parts specified in this installation manual.
- Have installation work done by authorized service personnel only.
- Remove and the power cord, hang up on the back, or change the plug.
- Also do not use an extension cord.
- Plug in the power cord plug firmly. If the receptacle is loose, repair it before using the room air conditioner.
- Do not turn on the power until all installation work is complete.
- Be careful not to scratch the air conditioner when handling it.
- After installation, explain correct operation to the customer, using the operating manual.
- Let the customer keep this installation manual because it is used when the air conditioner is removed or moved.
- The maximum length of the piping is 15 m. The maximum height difference of the piping is 8 m. If the units are further apart than these, correct operation can not be guaranteed.

STANDARD ACCESSORIES

The following standard accessories are supplied.

Name and Shape	Qty	Name and Shape	Qty
Room air conditioner	1	Room air conditioner	1
Indoor unit	1	Indoor unit	1
Outdoor unit	1	Outdoor unit	1
Piping	1	Piping	1
Electrical cable	1	Electrical cable	1
Room air conditioner	1	Room air conditioner	1

The set of following parts are necessary in installation of this product.

Name
Connection pipe assembly
Connection pipe (3/4 inch)
Connection pipe (1/2 inch)
Connection pipe (3/8 inch)
Connection pipe (1/4 inch)
Connection pipe (1/8 inch)
Connection pipe (1/16 inch)
Connection pipe (1/32 inch)
Connection pipe (1/64 inch)
Connection pipe (1/128 inch)
Connection pipe (1/256 inch)
Connection pipe (1/512 inch)
Connection pipe (1/1024 inch)
Connection pipe (1/2048 inch)
Connection pipe (1/4096 inch)
Connection pipe (1/8192 inch)
Connection pipe (1/16384 inch)
Connection pipe (1/32768 inch)
Connection pipe (1/65536 inch)
Connection pipe (1/131072 inch)
Connection pipe (1/262144 inch)
Connection pipe (1/524288 inch)
Connection pipe (1/1048576 inch)
Connection pipe (1/2097152 inch)
Connection pipe (1/4194304 inch)
Connection pipe (1/8388608 inch)
Connection pipe (1/16777216 inch)
Connection pipe (1/33554432 inch)
Connection pipe (1/67108864 inch)
Connection pipe (1/134217728 inch)
Connection pipe (1/268435456 inch)
Connection pipe (1/536870912 inch)
Connection pipe (1/1073741824 inch)
Connection pipe (1/2147483648 inch)
Connection pipe (1/4294967296 inch)
Connection pipe (1/8589934592 inch)
Connection pipe (1/17179869184 inch)
Connection pipe (1/34359738368 inch)
Connection pipe (1/68719476736 inch)
Connection pipe (1/137438953472 inch)
Connection pipe (1/274877906944 inch)
Connection pipe (1/549755813888 inch)
Connection pipe (1/1099511627776 inch)
Connection pipe (1/2199023255552 inch)
Connection pipe (1/4398046511104 inch)
Connection pipe (1/8796093022208 inch)
Connection pipe (1/17592186044416 inch)
Connection pipe (1/35184372088832 inch)
Connection pipe (1/70368744177664 inch)
Connection pipe (1/140737488355328 inch)
Connection pipe (1/281474976710656 inch)
Connection pipe (1/562949953421312 inch)
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Table of Contents Fujitsu Split Air Conditioner Installation Manual

1. Understanding the eBook Fujitsu Split Air Conditioner Installation Manual
 - The Rise of Digital Reading Fujitsu Split Air Conditioner Installation Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Fujitsu Split Air Conditioner Installation Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fujitsu Split Air Conditioner Installation Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fujitsu Split Air Conditioner Installation Manual
 - Personalized Recommendations

- Fujitsu Split Air Conditioner Installation Manual User Reviews and Ratings
- Fujitsu Split Air Conditioner Installation Manual and Bestseller Lists
- 5. Accessing Fujitsu Split Air Conditioner Installation Manual Free and Paid eBooks
 - Fujitsu Split Air Conditioner Installation Manual Public Domain eBooks
 - Fujitsu Split Air Conditioner Installation Manual eBook Subscription Services
 - Fujitsu Split Air Conditioner Installation Manual Budget-Friendly Options
- 6. Navigating Fujitsu Split Air Conditioner Installation Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Fujitsu Split Air Conditioner Installation Manual Compatibility with Devices
 - Fujitsu Split Air Conditioner Installation Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fujitsu Split Air Conditioner Installation Manual
 - Highlighting and Note-Taking Fujitsu Split Air Conditioner Installation Manual
 - Interactive Elements Fujitsu Split Air Conditioner Installation Manual
- 8. Staying Engaged with Fujitsu Split Air Conditioner Installation Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fujitsu Split Air Conditioner Installation Manual
- 9. Balancing eBooks and Physical Books Fujitsu Split Air Conditioner Installation Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fujitsu Split Air Conditioner Installation Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fujitsu Split Air Conditioner Installation Manual
 - Setting Reading Goals Fujitsu Split Air Conditioner Installation Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fujitsu Split Air Conditioner Installation Manual
 - Fact-Checking eBook Content of Fujitsu Split Air Conditioner Installation Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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