

Installation Instruction

Air conditioner

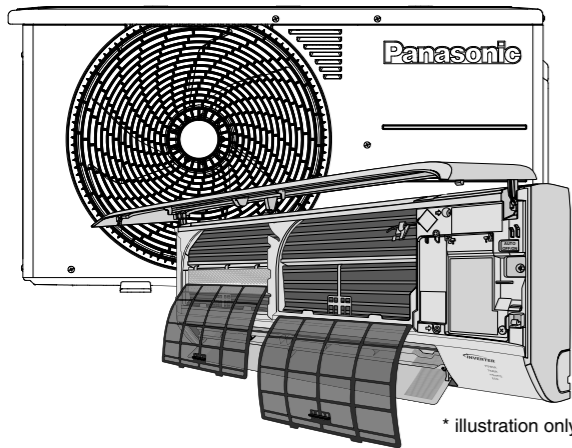


illustration only

MODEL NO : CS/CU-LU9*** (1.0HP) CS/CU-LU12*** (1.5HP)

CAUTION R32 REFRIGERANT

This Air Conditioner contains and operates with refrigerant R32. THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED BY QUALIFIED PERSONNEL.

Refer to National, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.

Explanation of symbols displayed on the indoor unit or outdoor unit.

Table with 3 columns: Symbol (Warning, Caution, Information), Symbol description, and Explanation.

SAFETY PRECAUTIONS

- Read the following "SAFETY PRECAUTIONS" carefully before installation.
Electrical work must be installed by a licensed electrician.
Do not release refrigerant during piping work for installation...

WARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
Do not install outdoor unit near handrail of veranda.
Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord...

CAUTION

- For R32/R410A model, use piping, flare nut and tools which is specified for R32/R410A refrigerant.
Do not use tools that cause abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury.
Since the working pressure for R32/R410A is higher than that of refrigerant R22 model...

- Do not use joint cable for indoor / outdoor connection cable.
Do not use plastic bags (packing material) for protection.
When installing or relocating air conditioner, do not let any substance other than the specified refrigerant...

- This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone.

CAUTION

- Do not install the unit in a place where leakage of flammable gas may occur.
Prevent liquid or vapor from entering sumps or sewers since vapor is heavier than air and may form suffocating atmospheres.
Do not use refrigerant during piping work for installation, re-installation and during repairing refrigeration parts.

PRECAUTION FOR USING R32 REFRIGERANT

Pay careful attention to the following points and the installation work procedures.

WARNING

- The appliance shall be stored, installed and operated in a well ventilated room with indoor floor area larger than AL [refer Table A] and without any continuously operating ignition source.
The mixing of different refrigerants within a system is prohibited.
Detailed knowledge of and skills in handling flammable refrigerants, personal protective equipment, refrigerant leakage prevention...

CAUTION

- Must ensure the installation of pipe-work shall be kept to a minimum.
Must comply with national gas regulations, state municipal rules and legislation.
Notify relevant authorities in accordance with all applicable regulations.

- 2.1. Qualification of workers
2.2. Checks to the area
2.3. Work procedure
2.4. General work area
2.5. Checking for presence of refrigerant
2.6. Presence of fire extinguisher
2.7. No ignition sources
2.8. Ventilated area
2.9. Checks to the refrigerating equipment

- 2-10. Checks to electrical devices
Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
Initial safety checks shall include but not limit to:
- That capacitors are discharged...

- 3. Repairs to sealed components
During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
It is absolutely necessary to have an electrical supply to equipment during servicing...

- 4. Repair to intrinsically safe components
Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.

- 5. Cabling
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.

- 6. Detection of flammable refrigerants
Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
A halide torch (or any other detector using a naked flame) shall not be used.
The following leak detectors are deemed acceptable for refrigerant systems...

- 7. Removal and evacuation
When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used.
However, it is important that best practice is followed since flammability is a consideration.
The following procedure shall be adhered to:
- remove refrigerant -> purge the circuit with inert gas -> evacuate -> purge with inert gas -> open the circuit by cutting or brazing

- 8. Charging procedures
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.

- 9. Decommissioning
Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
It is recommended good practice that all refrigerants are recovered safely.
Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.

- 10. Labelling
Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
The label shall be dated and signed.
Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

- 11. Recovery
When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice 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.

Table with 4 columns: Tool name, Quantity, Tool name, Quantity. Tools include Phillips screw driver, Pipe cutter, Thermometer, Torque wrench, Level gauge, Reamer, Megameter, Electric drill, Knife, Gas leak detector, Vacuum pump, Hexagonal wrench, Measuring tape, Gauge manifold, Spanner.

Table with 4 columns: No., Accessories part, Qty., No., Accessories part, Qty. Lists parts like Installation plate, Remote control, Battery, Remote control holder, Drain pan, Drain elbow, Piping size table.

SELECT THE BEST LOCATION

Diagrams and formulas for selecting the best location for the indoor unit. Includes formulas for A_min and m_min, and diagrams showing unit placement relative to walls and windows.

Indoor/Outdoor Unit Installation Diagram

Detailed installation diagram showing the indoor and outdoor units, piping, electrical connections, and required accessories like insulation, sealants, and brackets.

