	SAFETY PRECAUTIONS     Pread the following "SAFETY PRECAUTIONS" carefully before installation.	This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone. Otherwise, it may cause electrical shock in case of equipment breakdown or insulation breakdown.	
	<ul> <li>Electrical work must be installed by a licensed electricián. Be sure to use the correct rating of the power plug and main circuit for the model to be installed.</li> <li>The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is</li> </ul>		<ul> <li>General</li> <li>Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.</li> <li>Must ensure that pipe-work shall be protected from physical damage.</li> </ul>
Air conditioner Installation Instruction	classified by the following indications.         Image: Market of the equipment is transferred to a new user or delivered to a recycling plant, be sure also to hand over the manual.         Image: Market of the equipment is to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.	<ul> <li>Do not install the unit in a place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause fire.</li> <li>Prevent liquid or vapor from entering sumps or sewers since vapor is heavier than air and may form suffocating atmospheres.</li> <li>Do not release refrigerant during piping work for installation, re-installation and during repairing refrigeration parts. Take care of the liquid refrigerant, it may cause frostbite.</li> <li>Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc.</li> <li>Do not touch the sharp aluminium fin, sharp parts may cause injury.</li> <li>Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.</li> <li>Select an installation location which is easy for maintenance. Incorrect installation, service or repair of this air conditioner may increase the risk of rupture and this may result in loss damage or injury and/or property. Power supply connection to the room air conditioner.</li> </ul>	<ul> <li>Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.</li> <li>Must ensure mechanical connections be accessible for maintenance purposes.</li> <li>In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.</li> <li>When disposal of the product, do follow to the precautions in #11 and comply with national regulations.</li> <li>In case of field charge, the effect on refrigerant charge caused by the different pipe length has to be quantified, measured and labelled. Always contact to local municipal offices for proper handling.</li> <li>Ensure the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.</li> <li>Wear appropriate protective equipment, including respiratory protection, as conditions warrant.</li> <li>Keep all sources of ignition and hot metal surfaces away.</li> <li>2. Servicing</li> </ul>
DResords	<ul> <li>Any unfit method or using incompatible material may cause product damage, burst and serious injury.</li> <li>Do not install outdoor unit near handrail of veranda. When installing air-conditioner unit on veranda of a high rise building, child may climb up to outdoor unit and cross over the handrail causing an accident.</li> <li>Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord. Do not share the single outlet with other electrical appliances. Poor contact, poor insulation or over current will cause electrical shock or fire.</li> <li>Do not use unspecified cord into a bundle by band. Abnormal temperature rise on power supply cord may happen.</li> <li>Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury.</li> <li>Do not sit or step on the unit, you may fall down accidentally.</li> <li>Keep plastic bag (packaging material) away from small children, it may cling to nose and mouth and prevent breathing.</li> <li>When installing or relocating air conditioner, do not let any substance other than the specified refrigerant, eg, air etc mix into refrigeration cycle (piping). Mixing of air etc. will cause abnormal high pressure in refrigeration cycle and result in explosion, injury etc.</li> <li>Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flame, sparks, or other sources of ignition. Else, it may explode and cause injury or death.</li> </ul>	<ul> <li>Use power supply cord 4 x 1.5 mm<sup>2</sup> (1.0 ~ 1.5HP) × 4 x 1.5 mm<sup>2</sup> (2.0HP), type designation 60245 IEC 57 or heavier cord. Connect the power supply cord of the air conditioner to the mains using one of the following method. Power supply contrast should be in easily accessible place for power disconnection in case of emergency.</li> <li>In some countries, permanent connection of this air conditioner to the power supply is prohibited.</li> <li>Power supply connection to the receptacle using power plug. Use an approved 15/16 A (1.0 ~ 1.5HP) or 16 A (2.0HP) power plug with earth pin for the connection to the socket.</li> <li>Power supply connection to a circuit breaker for the permanent connection. Use an approved 16 A (1.0 ~ 2.0HP) circuit breaker for the permanent connection. It must be a double pole switch with a minimum 3.0 mm contact gap.</li> <li>Installation work. It may need two people to carry out the installation work.</li> <li>Keep any required ventilation openings clear of obstruction.</li> </ul>	<ul> <li>Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry-recognized assessment specification.</li> <li>Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.</li> <li>Servicing shall be performed only as recommended by the manufacturer.</li> <li>The system is inspected, regularly supervised and maintained by a trained and certified service personnel who is employed by the person user or party responsible.</li> <li>2-2. Checks to the area</li> <li>Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the precautions in #2-3 to #2-7 must be followed before conducting work on the system.</li> <li>2-3. Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.</li> </ul>
* illustration only RS/RU-U9YW MODEL NO : RS/RU-U12YW RS/RU-U18YW	<ul> <li>Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.</li> <li>For R32/R410A model, use piping, flare nut and tools which is specified for R32/R410A refrigerant. Using of existing (R22) piping, flare nut and tools may cause abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury. For R32 and R410A, the same flare nut on the outdoor unit side and pipe can be used.</li> <li>Since the working pressure for R32/R410A is higher than that of refrigerant R22 model, replacing conventional piping and flare nuts on the outdoor unit side are recommended.</li> <li>If reuse piping is unavoidable, refer to instruction "IN CASE OF REUSING EXISTING REFRIGERANT PIPING"</li> <li>Thickness of copper pipes used with R32/R410A must be more than 0.8 mm. Never use copper pipes thinner than 0.8 mm.</li> <li>It is desirable that the amount of residual oil less than 40 mg/10 m.</li> <li>Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire.</li> <li>For refrigeration system work, install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.</li> <li>Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.</li> <li>Install at a strong and firm location which is able to withstand weight of the set. If the strength is not enough or installation is not properly done, the set will drop and cause injury.</li> <li>For electrical work, follow the national regulation, legislation and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in the electrical work, it will cause electrical vork is not enough or defect fo</li></ul>	<ul> <li>Pay careful attention to the following points and the installation work procedures.</li> <li></li></ul>	<ul> <li>2-4. General work area</li> <li>All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.</li> <li>Avoid working in confined spaces. Always ensure away from source, at least 2 meter of safety distance, or zoning of free space area of at least 2 meter in radius.</li> <li>2-5. Checking for presence of refrigerant</li> <li>The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.</li> <li>Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.</li> <li>In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.</li> <li>In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.</li> <li>2-6. Presence of fire extinguisher</li> <li>If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.</li> <li>Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.</li> <li>2-7. No ignition sources</li> <li>No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignitized in survey of the risk of fire or provide in the area induction of a menutoring of the menutor of the risk of fire or provide in the manner that it may lead to the risk of fire or provide in the order in the menutor of the menutor of the menutor of the menutor of the prevence of induction in such a manner that it may lead to the risk of fire or provide in the menutor of the menutor of the menutor of the prevence of induction of the prevence of induction of the prevence of induction i</li></ul>
Image: Application of the symbols displayed on the indoor unit or outdoor unit.Image: Application of the symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.Image: Application of the symbol shows that the installation manuals, before the installation, maintenance and/or service of this product.Image: Application of the symbol shows that the installation manuals, before the installation, maintenance and/or service of this product.Image: Application of the installation manuals, before the installation, maintenance and/or service of this product.Image: Application of the installation manuals, before the installation, maintenance and/or service of this product.Image: Application of the installation manuals, before the installation, maintenance and/or service of this product.Image: Application of the installation manual and/or installation manual.Image: Application of the installation manual and/or installation manual.Ima	<ul> <li>Both the boot is boot in boot induction of a boot in departing is not entergined in the boot induction when, it will be boot induction is the choice induction of the boot induction is the choice induction of the boot induction is the choice induction of the boot induction of the boot induction is the choice will have impact on the terminal. If connection or fixing is not perfect, it will cause heat up or fire at the connection.</li> <li>White routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause fire or electrical shock.</li> <li>This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD), with sensitivity of 30 mA at 0.1 sec or less. Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.</li> <li>During installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping and valves at opened position will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.</li> <li>During pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration cycle and result in explosion, injury etc.</li> <li>Tighten the flare nut with torque wrench according to specified method. If the flare nut is over-tightened, after a long period, the flare may break and cause refrigerant gas leakage.</li> <li>After completion of installation, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant contacts with fire.</li> <li>Be aware that refrigerant gas leakage during operation. It may cause toxic gas when the refrigerant contacts with fire.</li> </ul>	<ul> <li>In case of ventilations in occupied spaces shall be checked to continu no obstruction.</li> <li>Before a new refrigerating system is put into service, the person responsible for placing the system in operation should ensure that trained and certified operating personnel are instructed on the basis of the instruction manual about the construction, supervision, operation and maintenance of the refrigerating system, as well as the safety measures to be observed, and the properties and handling of thre refrigerant used.</li> <li>The general requirement of trained and certified personnel are indicated as below: <ul> <li>a) Knowledge of legislation, regulations and standards relating to flammable refrigerants; and,</li> <li>b) Detailed knowledge of and skills in handling flammable refrigerants, personal protective equipment, refrigerant leakage prevention, handling of cylinders, charging, leak detection, recovery and disposal; and,</li> <li>c) Able to understand and to apply in practice the requirements in the national legislation, regulations and Standards; and,</li> <li>d) Continuously undergo regular and further training to maintain this expertise.</li> </ul> </li> <li>Air-conditioner piping in the occupied space shall be installed in such a way to protect against accidental damage in operation and service.</li> <li>Precautions shall be taken to avoid excessive vibration or pulsation to refrigerating piping.</li> <li>Ensure protection devices, refrigerating piping and fittings are well protected against adverse environmental effects (such as the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris).</li> <li>Expansion and contraction of long runs piping in refigerating systems shall be designed and installed securely (mounted and guarded) to minimize the likelihood hydraulic shock damaging the system.</li> <li>Protect the refrigerating system from accidental rupture due to moving furniture or reconstruction activities.</li> <li>To ensure no leaking, field-made ref</li></ul>	<ul> <li>explosion. He/She must not be smoking when carrying out such work.</li> <li>All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.</li> <li>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.</li> <li>"No Smoking" signs shall be displayed.</li> <li>2-8. Ventilated area</li> <li>Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.</li> <li>A degree of ventilation shall continue during the period that the work is carried out.</li> <li>The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.</li> <li>2-9. Checks to the refrigerating equipment</li> <li>Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.</li> <li>At all imes the manufacturer's maintenance and service guidelines shall be followed.</li> <li>If in doubt consult the manufacturer's technical department for assistance.</li> <li>The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.</li> <li>The ventilation machinery and outlets are operating adequately and are not obstructed.</li> <li>If an indirect refrigerant continues to be visible and legible. Markings and signs that are illegible shall be corrected.</li> <li>Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may being corroded or are properly protected against being so corroded.</li> </ul>
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