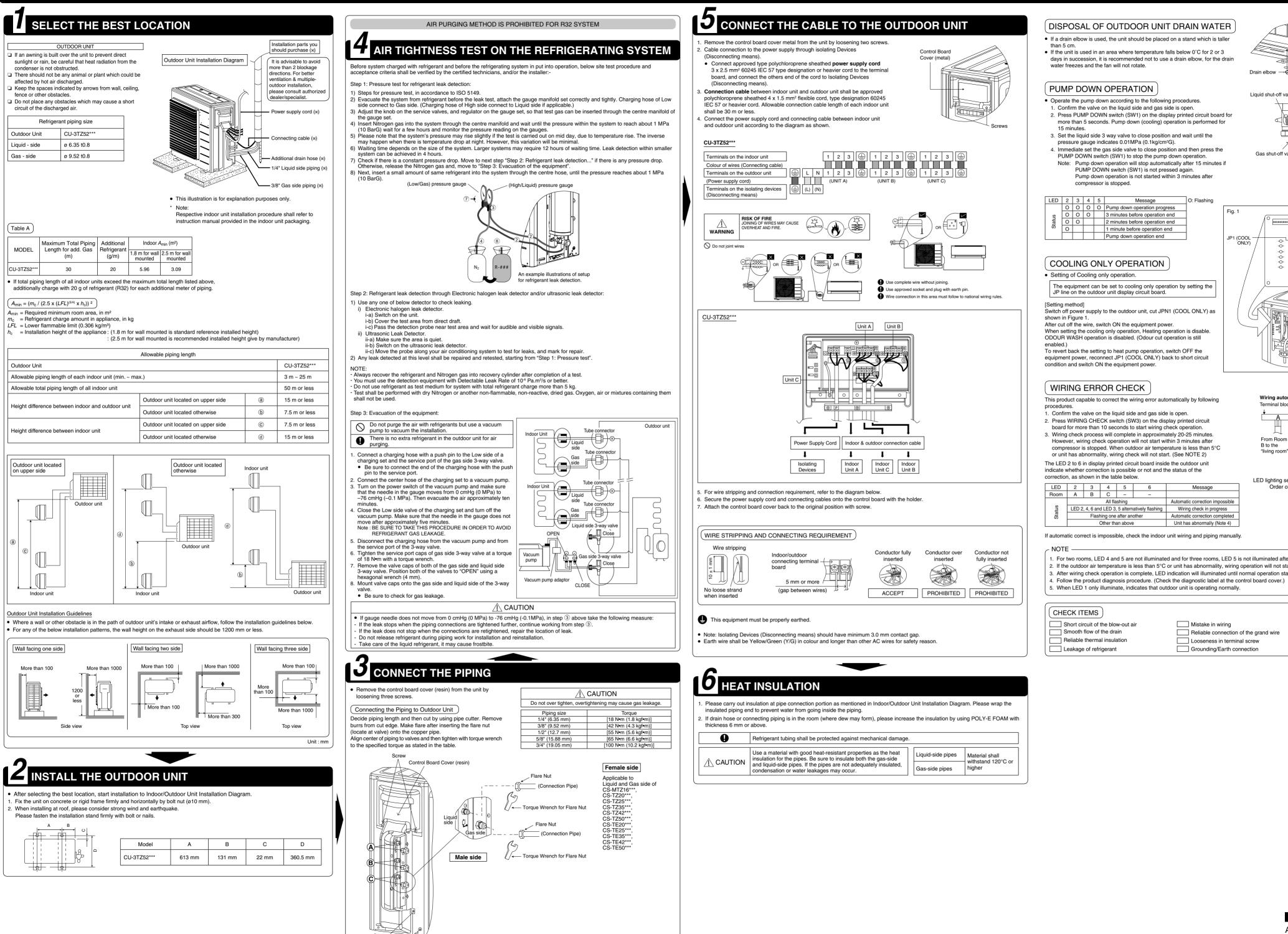
Panasonic				
AIR CONDITIONER	PRECAUTION FOR USING R32 REFRIGERANT The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models.	 This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task. Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. 		
AIN CONDITIONLIN 1 Phillips screw driver 12 Megameter 2 Level gauge 13 Multimeter 3 Electric drill, hole core drill (Ø70 mm) 14 Torque wrench	However, pay careful attention to the following points:	 This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. 		
A Hexagonal wrench (4 mm) A Nom (1.8 kgfm) Spanner A Hexagonal wrench (4 mm) Spanner A Kgfm) Somer	WARNING Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special.	 This operation is absolutely vital if brazing operations on the pipe work are to take place. Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available. 		
6 Pipe cutter 50 Km (6.6 kg/m)	Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special. Especially, when replacing a refrigerant R22 model with a new refrigerant R32 model, always replace the conventional piping and flare nuts with the R32 and R410A piping and flare nuts on the outdoor unit side.	 9. Charging procedures In addition to conventional charging procedures, the following requirements shall be followed. 		
R32 ^{100 Nom} (10.2 kgf [•] m) 8 Knife 15 Vacuum pump 9 Gas leak detector 16 Gauge manifold	For R32 and R410A, the same flare nut on the outdoor unit side and pipe can be used. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety.	 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. Ordinators shall be least unright. 		
REFRIGERANT	 Therefore, check beforehand. [The charging port thread diameter for R32 and R410A is 12.7 mm (1/2 inch).] Be more careful than R22 so that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.) 	 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). 		
This Air Conditioner contains and operates with refrigerant R32. This symbol shows that this equipment uses a flammable refrigerant. If	Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)	 Extreme care shall be taken not to over fill the refrigeration system. Prior to recharging the system it shall be pressure tested with OFN (refer to #7). 		
BY QUALIFIED PERSONNEL. WARNING the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.	1. Installation (Space)	 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. 		
Refer to National, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.	 Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending. Must ensure that pipe-work shall be protected from physical damage. Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations. 	Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.		
CAUTION This symbol shows that a service personnel should be handling this equipment with reference to the Installation Manual.	 Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations. Must ensure mechanical connections be accessible for maintenance purposes. In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction. 	 10. 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. 		
CAUTION This symbol shows that there is information included in the Operation Manual and/or Installation Manual.	When disposal of the product, do follow to the precautions in #12 and comply with national regulations. Always contact to local municipal offices for proper handling.	 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 reclaimed refrigerant. It is essential that electrical power is available before the task is commenced. 		
SAFETY PRECAUTIONS	2. Servicing (2-1. Service personnel)	a) Become familiar with the equipment and its operation. f) Make sure that cylinder is situated on the scales before recovery takes place. b) Isolate system electrically. g) Start the recovery machine and operate in accordance with manufacturer's instructions. c) Before attempting the procedure ensure that: h) Do not over fill cylinders. h) Do not over fill cylinders. h) Do not over fill cylinders.		
 Read the following "SAFETY PRECAUTIONS" carefully before installation. Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the power plug and main circuit for the model to be installed. 	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.	• mechanical handling equipment is available, if required, for handling refrigerant i) Do not exceed the maximum working pressure of the cylinder, even temporarily. j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders		
 The caution tends 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 classified by the following indications. 	 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. 	 Cylinidels, all personal protective equipment is available and being used correctly; the recovery process is supervised at all times by a competent person; K) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned 		
WARNING This indication shows the possibility of causing death or serious injury.	Servicing shall be performed only as recommended by the manufacturer. 2-2. Work	recovery equipment and cylinders conform to the appropriate standards. and checked. d) Pump down refrigerant system, if possible.		
CAUTION This indication shows the possibility of causing injury or damage to properties only.	 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 #2-2 to #2-8 must be followed before conducting work on the system. 	 e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system. 		
The items to be followed are classified by the symbols: Symbol with white background denotes item that is PROHIBITED.	 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. All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out. 	Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.		
Image: Symbol with white background denotes item that its internet. Image: Symbol with dark background denotes item that must be carried out.	 Avoid working in confined spaces. Wear appropriate protective equipment, including respiratory protection, as conditions warrant. Ensure that the conditions within the area have been made safe by limit of use of any flammable material. Keep all sources of ignition and hot metal surfaces 	 11. Labelling Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. 		
 Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference. 	away. 2-3. Checking for presence of refrigerant	Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant. 12. Recovery		
This appliance is not intended for accessibility by the general public.	• 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.	 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. 		
Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. Any unfit method or using incompatible	 Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe. In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release. 	 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. 		
Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious injury. Imaterial may cause product damage, burst and serious product damage, burst and series product damage, burst and	In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out. 2-4. Presence of fire extinguisher	 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 flammable refrigerants. 		
Cross over the handrail causing an accident. 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.	 If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area. 	 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. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a 		
$ \boxed{\begin{array}{ c c c c c } \hline \hline$	(2-5. No ignition sources)	refrigerant release. Consult manufacturer if in doubt.		
O Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen.	No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. He/She must not be smoking when carrying out such work.	 The recovered refrigerant shall be returned to the refrigerant supplier 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 compressent class are compressent class are to be remain within the lubricent 		
O Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury. O Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury.	 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. 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. 	 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 evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. 		
O Do not sit or step on the unit, you may fall down accidentally. Image: Construction of the appliance shall be installed, and/or operated in a room with floor area larger than Amin (m²) [refer Table A] and keep away from ignition sources, such as heat/	• "No Smoking" signs shall be displayed.	When oil is drained from a system, it shall be carried out safely.		
Sparks/open flame or hazardous areas such as gas appliances, gas cooking, reticulated gas supply systems or electric cooking appliances, etc. Keep plastic bag (packaging material) away from small children, to prevent choking and suffocation.	 Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. 	ACCESSORIES SUPPLIED WITH OUTDOOR UNIT		
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.	 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. 	 The following parts are supplied as accessories with each outdoor unit. Check that all accessory parts are present before installing the outdoor unit. 		
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.	 (2-7. Checks to the refrigeration equipment) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. 	Heat pump-types only		
Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc. Do not perform flare connection inside a building or dwelling or room, when joining the heat exchanger of indoor unit with interconnecting piping. Refrigerant	 At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. 	Part name Q'ty Diagram Application		
Connection inside a building or dwelling or room must be made by brazing or welding. Joint connection of indoor unit by flaring method can only be made at outdoor or at outside of a building or dwelling or room. Flare connection may cause gas leak and flammable atmosfere.	 The following checks shall be applied to installations using flammable refrigerants. The charge size 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. 	Drain elbow 1 For connecting the drain pipe		
 For R32 model, use piping, flare nut and tools which is specified for R32 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. Thickness for copper pipes used with R32 must be at least 0.8 mm. Never use copper pipes thinner than 0.8 mm. 	 If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant. Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected. 			
 It is desirable that the amount of residual oil less than 40 mg/10 m. Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire. 	 Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded. 	CUTTING AND FLARING THE PIPING		
For refrigeration system work, install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.	2-8. Checks to electrical devices	 Please cut using pipe cutter and then remove the burrs. Remove the burrs by using reamer. If burrs is not removed, gas leakage may be caused. Ture the pipe and down to avoid the motor participation the pipe. 		
 Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock. 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. 	 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: this shall be done in a safe manner to avoid possibility of sparking. 	Turn the piping end down to avoid the metal powder entering the pipe. 3. Please make flare after inserting the flare nut onto the copper pipes. Inclined Surface Cracked Uneven		
For electrical work, follow the national regulation, legislation and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit	 That there is no live electrical components and wiring are exposed while charging, recovering or purging the system. That there is continuity of earth bonding. 	Point down Point down Red arrow mark Copper pipe When properly flared, the internal surface of the flare will even by shine and		
capacity is not enough or defect found in the electrical work, it will cause electrical shock or fire. Do not use joint cable for indoor / outdoor connection cable. Use the specified indoor/outdoor connection cable, refer to instruction CONNECT THE CABLE TO DO DO DUDY THE CABLE TO	 At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. 	1. To cut 2. To remove burrs 3. To flare be of even thickness. Since the flare part comes into contact with the connections, carefully check the flare finish.		
THE OUTDOOR UNIT and connect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection or fixing is not perfect, it will cause heat up or fire at the connection.	 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. The owner of the equipment must be informed or reported so all parties are advised thereinafter. 			
Wire 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. 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	3. Repairs to sealed components			
 0.1 sec or less. Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown. 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. 	 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. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the 			
 Operated position win cases sock in or air, abnorman high pressure in refigeration cycle and result in explosion, high yetc. D During pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration piping while compressor is operating and valves are opened will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc. 	most critical point to warn of a potentially hazardous situation. Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of particular attention is defined. This paid is achieve a page to apply a comparison particular attention at made to object the particular attention of the paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of a particular attention is affined. This particular attention is affined to adding the particular attention of the paid to adding the paid to adding the particular attention of the particular attention of the particular attention of the paid to adding the paid to adding the particular attention of t			
 To open a wine datase such in or any abhominanting pressure in reingentiation cycle and result in explosion, mary etc. In the 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. 	 protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc. Ensure that apparatus is mounted securely. 			
After completion of installation, confirm there is no leakage of refrigerant gas. It may produce toxic gas when the refrigerant contacts with fire.	 Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications. 			
 Ventilate if there is refrigerant gas leakage during operation. It may produce toxic gas when the refrigerant contacts with fire. Be aware that refrigerants may not contain an odour. 	NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.			
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.	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.			
O 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. O Prevent liquid or vapor from entering sumps or sewers since vapor is heavier than air and may form suffocating atmospheres.	 Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a 			
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.	leak.			
Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc.	 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. 			
Do not touch the sharp aluminium fin, sharp parts may cause injury.	 6. Detection of flammable refrigerants Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks. 			
Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.	A halide torch (or any other detector using a naked flame) shall not be used. C. Leak detection methods			
 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. Use power supply cord (3 x 2.5 mm²) type designation 60245 IEC 57 or heavier cord. 	 Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may 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. 			
Connect the power supply cord of the air conditioner to the mains using one of the following method. Power supply point should be in easily accessible place for power disconnection in case of emergency.	• 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.			
 In some countries, permanent connection of this air conditioner to the power supply is prohibited. Power supply connection to the receptacle using power plug. Use an approved 16A (CU-3TZ52***) power plug with earth pin for the connection to the socket. 	 Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If a leak of suitable flame shall be removed/avtinguished 			
 2) Power supply connection to a circuit breaker for the permanent connection. Use an approved 16A (CU-3TZ52***) circuit breaker for the permanent connection. It must be a double pole switch with a minimum 3.0 mm contact gap. 	 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. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process. 			
Installation work. It may need two people to carry out the installation work.	 8. 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:			

The refrigerant charge shall be recovered into the correct recovery cylinders.
The system shall be "flushed" with OFN to render the unit safe.

• remove refrigerant -> • purge the circuit with inert gas -> • evacuate -> • purge again with inert gas -> • open the circuit by cutting or brazing



OUTDOOR UNIT



- days in succession, it is recommended not to use a drain elbow, for the drain
- Operate the pump down according to the following procedures.
- 2. Press PUMP DOWN switch (SW1) on the display printed circuit board for more than 5 seconds. Pump down (cooling) operation is performed for
- 3. Set the liquid side 3 way valve to close position and wait until the
- 4. Immediate set the gas side valve to close position and then press the
- Note: Pump down operation will stop automatically after 15 minutes if PUMP DOWN switch (SW1) is not pressed again. Pump down operation is not started within 3 minutes after

	LED	2	3	4	5	Message	0: F
		0	0	0	0	Pump down operation progress	
	s	0	0	0		3 minutes before operation end	
Status 0 0 0		2 minutes before operation end					
	S	0				1 minute before operation end	1
						Pump down operation end	

The equipment can be set to cooling only operation by setting the

When setting the cooling only operation, Heating operation is disable.

ODOUR WASH operation is disabled. (Odour cut operation is still

equipment power, reconnect JP1 (COOL ONLY) back to short circuit

This product capable to correct the wiring error automatically by following

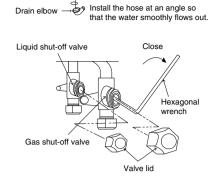
- 2. Press WIRING CHECK switch (SW3) on the display printed circuit
- Wiring check process will complete in approximately 20-25 minutes. However, wiring check operation will not start within 3 minutes after
- or unit has abnormality, wiring check will not start. (See NOTE 2) The LED 2 to 6 in display printed circuit board inside the outdoor unit

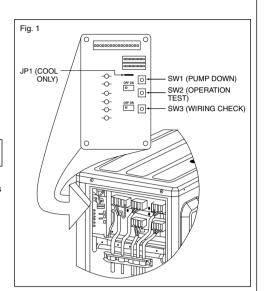
indicate whether correction is possible or not and the status of the

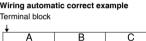
LED	2	3	4	5	6	Message
Room	Α	В	С	-	-	
Status			All fla	shing	Automatic correction impossible	
	LED 2	, 4, 6 an	d LED 3,	5 altern	Wiring check in progress	
		Flash	ning one	after an	Automatic correction completed	
			Other that	an above	Unit has abnormally (Note 4)	

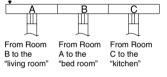
If automatic correct is impossible, check the indoor unit wiring and piping manually.

- For two rooms, LED 4 and 5 are not illuminated and for three rooms, LED 5 is not illuminated after wiring operation complete
- If the outdoor air temperature is less than 5°C or unit has abnormality, wiring operation will not start.
- 3. After wiring check operation is complete, LED indication will illuminated until normal operation starts.
- 5. When LED 1 only illuminate, indicates that outdoor unit is operating normally.
- - Mistake in wiring Reliable connection of the grand wire Looseness in terminal screw Grounding/Earth connection











LED lighting sequence after a wiring correction. Order of LED flashing: 3--> 2--> 4

> ENGLISH ACXF60-27240-AA (2/2) PRINTED IN MALAYSIA