	7. E2 /E4 Code W			6. E3 Code		<u></u>	5. E0 Code
	Water tank full			Pipe temperature sensor failed		failed	Room temperature sensor
ייים כיייוסין יויט אימוכו נמוות.	Please empty the water tank	without replacement.)	sensor (the unit can also work	Replace pipe temperature	without replacement.)	sensor (the unit can also work	Replace room temperature

WARNING

Specific information regarding appliances with R 290 refrigerant gas.

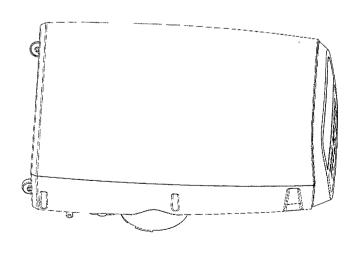
- Thoroughly read all of the warnings.
- When defrosting and cleaning the appliance, do not use any tools other than those recommended by the manufacturing company.
- The appliance must be placed in an area without any continuously sources of ignition (for example: open flames, gas or electrical appliances in operation).
- Do not puncture and do not burn.
- Appliance shall be installed, operated and stored in a room with a floor area larger than X m². (X=4 for 7000Btu/h, 8000Btu/h; X=7.7 for 9000Btu/h, 10000Btu/h; X=10.1 for 12000Btu/h, 14000Btu/h)
- This appliance contains Y g (see rating label back of unit) of R290 refrigerant gas.
- R290 is a refrigerant gas that complies with the European directives on the environment. Do not puncture any part of the refrigerant circuit.
- If the appliance is installed, operated or stored in a nonventilated area, the room must be designed to prevent to the accumulation of refrigerant leaks resulting in a risk of fire or explosion due to ignition of the refrigerant caused by electric heaters, stoves, or other sources of ignition.
- The appliance must be stored in such a way as to prevent mechanical failure.
- Individuals who operate or work on the refrigerant circuit must have the appropriate certification issued by an accredited organization that ensures competence in handling refrigerants according to a specific evaluation recognized by associations in the industry.
- Repairs must be performed based on the recommendation from the manufacturing company. Maintenance and repairs that require the assistance of other qualified personnel must be performed under the supervision of an individual specified in the use of flammable refrigerants.

Note: The real products may look different.



Portable Air-conditioner User's Manual

Model: BR12P Mk2 BR14P Mk2, BR16P Mk2 BR18P



Please read this user's manual carefully to ensure proper use, maintenance and installation

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Troubleshooting

Troubles	Possible Causes	Suggested Remedies
1. Unit does not start when	- Water full indicator lamp	Dump the water out of the water
pressing ON/OFF button	blinks, and water tank is full.	tank.
	- Room temperature is higher	Reset the temperature
	than the setting temperature.	
	(Electric heating mode)	
	- Room temperature is lower	Reset the temperature
	than the setting temperature.	
	(Cooling mode),	
2. Not cool enough	- The doors or windows are not	Make sure all the windows and
	closed.	doors are closed.
	- There are heat sources inside	Remove the heat sources if
	the room.	possible
	- Exhaust air hose is not	Connect or clean the exhaust
	connected or blocked.	air hose.
	- Temperature setting is too	Reset the temperature
	high.	
	- Air inlet is blocked.	Clean the air inlet.
Auto Power-Off in heating	- Heating protection, when the	Restart the unit at enough lower
mode	temperature at the air outlet	room temperature.
	exceeds 70°C, the unit will	
	power off automatically.	
4. Noisy	- The ground is not level or not	Place the unit on a flat, level
	flat enough	ground if possible
	- The sound comes from the	It is normal.
	flowing of the refrigerant inside	
	the air conditioner	

company. Maintenance and repairs that require the assistance of other qualified personnel must be performed under the supervision of an individual specified in the use of flammable refrigerants.

- The appliance is for indoor use only.
- 2. Do not use the unit on a socket under repairs or not installed properly
- Do not use the unit in the circumstances below:
- A: Near to source of fire.
- B: An area where oil is likely to splash
- C: An area exposed to direct sunlight.
- D: An area where water is likely to splash.
- E: Near a bath, a laundry, a shower or a swimming pool
- Never insert your fingers, rods into the air outlet. Take special care to warn children of these
- 5. Keep the unit upward while transport and storage, for the compressor locates properly.
- Before cleaning the air-conditioner, always turn off or disconnect the power supply.
 When moving the air-conditioner always turn off or disconnect the power supply.
- When moving the air-conditioner, always turn off and disconnect the power supply, and move
 it slowly.
- 8. To avoid the possibility of fire disaster, the air-conditioner shall not be covered.
- All the air-conditioner sockets must comply with the local electric safety requirements. If necessary, please check it for the requirements.
- 10. Children should be supervised to ensure that they do not play with the appliance.
- 11. If the supply cord is damaged it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 12. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- 13. The appliance shall be installed in accordance with national wiring regulations.
- 14. Details of type and rating of fuses: T, 250V AC, 2A.
- o. Recycling



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

- 16. GWP: R290: 3
- 17. Contact authorized service technician for repair or maintenance of this unit.
- 18. Do not pull, deform or modify the power supply cord, or immerse it in water. Pulling or misuse of the power supply cord can result in damage to the unit and cause electrical shock.
- 19. Compliance with national gas regulations shall be observed.
- 20. Keep ventilation openings clear of obstruction.
- 21. Any person who is involved with working on or breaking into a refrigerant circuit should hold a

A) Temporary installation

- 1. Twist both ends of the exhaust hose into the square fixing clip and the flat fixing clip.
- 2. Insert the square fixing clip into openings at back of the air conditioner (see Fig.9).
- Put the other end of the exhaust hose to the near windowsill.

Window Slider Kit Installation

The installation manner of window slider kit is mostly in "horizontal" and "vertical", No much difference in actual process.

As shown Fig.10 and Fig.10a, check the min. and max. size of the window.

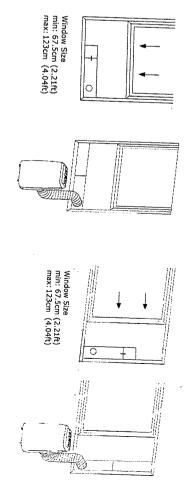


Fig.9

Maintenance Explanations

Declaration:

- 1) Before cleaning, be sure to disconnect the unit from any electric supply outlet;
- 2) Do not use gasoline or other chemicals to clean the unit
- Do not wash the unit directly;
- 4) If the conditioner is damaged, please contact the dealer or repair shop.

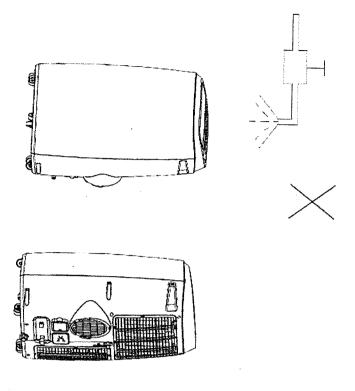


Fig.10

1. Air Filter

- If the air filter becomes clogged with dust/dirt, the air filter should be cleaned once every two weeks.
- Dismounting

Open the air inlet grille and take off air filter.

Cleaning

Clean the air filter with neural detergent in lukewarm (40°C) and dry it up in the shade

Putting the air filter into the inlet grille, replace the components as they were **2. Clean the Air-conditioner Surface**

First clean the surface with a neutral detergent and wet cloth, and then wipe it with a dry cloth.

Safety Awareness

VERY IMPORTANT!

Please do not install or use your mobile air conditioner before you have carefully read this manual. Please keep this instruction manual for an eventual product warranty and for future reference.

4

Warning

Do not use means to accelerate the defrosting process or to clean, other than those

recommended by the manufacturer

The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.

Do not pierce or burn.

Be aware the refrigerants may not contain an odour.

WAKNING

Specific information regarding appliances with R 290 refrigerant gas

- Thoroughly read all of the warnings.
- When defrosting and cleaning the appliance, do not use any tools other than those recommended by the manufacturing company.
- The appliance must be placed in an area without any continuously sources of ignition (for example: open flames, gas or electrical appliances in operation).
- Do not puncture and do not burn.
- This appliance contains Y g (see rating label back of unit) of R290 refrigerant gas.
- R290 is a refrigerant gas that complies with the European directives on the environment. Do
 not puncture any part of the refrigerant circuit.
- If the appliance is installed, operated or stored in a none ventilated area, the room must be
 designed to prevent to the accumulation of refrigerant leaks resulting in a risk of fire or
 explosion due to ignition of the refrigerant caused by electric heaters, stoves, or other
 sources of ignition.
- The appliance must be stored in such a way as to prevent mechanical failure.
- Individuals who operate or work on the refrigerant circuit must have the appropriate certification issued by an accredited organization that ensures competence in handling refrigerants according to a specific evaluation recognized by associations in the industry.
- Repairs must be performed based on the recommendation from the manufacturing

INSTRUCTIONS FOR REPAIRING APPLIANCES CONTAINING R290 1. GENERAL INSTRUCTIONS

1.1 Checks to the area

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 following precautions shall be complied with prior to con-ducting work on the system.

1.2 Work procedure

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.

1.3 General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

1.4 Checking for presence of refrigerant

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. Ensure that the leak tection equipment being used is suitable for use with flammable refrigerants, i.e. nonsparking, adequately sealed or intrinsically safe.

1.5 Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, propriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

1.6 No ignition sources

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. 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. "No Smoking" signs shall be displayed.

1.7 Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. 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.

1.8 Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. 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

- Press the "MODE" button till the "Fan" icon appears.
- Press the "WIND" button to select wind speed.

6. Heating operation (this function is not available for a cold-single unit)

- Press the "MODE" button till the "Heat" icon appears.
- Press the "DOWN" or "UP" button to select a desired room temperature. (16°C -31°C)
- Press the "WIND" button to select wind speed.

Timer operation

Timer ON setting:

- When the air-conditioner is OFF, press the "Timer" button and select a desired ON time through the temperature and time setting buttons.
- "Preset ON Time" is displayed on the operation panel
- ON time can be regulated at any time in 0-24 hours

Timer OFF setting

- When the air-conditioner ON, press "Timer" button and select a desired OFF time through the temperature and time setting buttons.
- "Preset OFF Time" is displayed on the operation panel
- OFF time can be regulated at any time in 0-24 hours.

8. Swing (air flow)

After machine turns on, press this key, the louver will swing continuously left and right; by pressing this button again the movement will stop and the louver remain in that position.

Sleep control function

- While in cooling mode, press the SLEEP key to set the temperature. It increases 1°C after an hour and at most increases 2°C after 2 hours.
- While in heating mode, press the SLEEP key to set the temperature. It decreases 1°C after an hour and at most decreases 2°C after 2 hours.
- Press the SLEEP key again can cancel the setting.

10. Drainage

Internal Tank Water Full Alarm Function

The inner water tank in the air-conditioner has one water level safety switches, it controls water level. When water level reaches an anticipated height, the water full indicator lamp lights up. (If water pump is damaged, when the water is full, please remove the rubber blockage at the bottom of unit, and all water will drain outside.)

Continuous Drainage

When you plan to leave this unit unused for a long time, please remove the rubber blockage from the drainage hole at the bottom of unit, and connect a drain hose to the lower fixing clip. All the water in the water tank will drain outside.

- You can drain the water as the above when the unit working at the HEAT mode
- If water pump is damaged, continuous drainage can be used, and under this condition, the water pump is not activated. The unit can also work well.
- If water pump is damaged, intermittent drainage can also be used. Under this condition, when the water full indicator lamp lights up, please connect a drain hose to the lower fixing clip, then all the water in the water tank will drain outside. The unit can also work well.

Installation Explanations

1. Installation Explanations:

- A removal air-conditioner shall be installed in the flat and empty place all around. Don't block the air outlet, and the required distance around should be at least 30cm. (See Fig.8) Should not be installed in dry cleaner.
- Socket wiring should be in accordance with the local electric safety requirements.

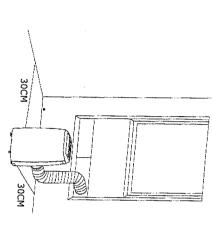


Fig.7

2. Introduction to Exhaust Hose Installation

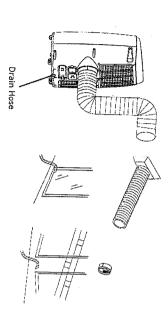


Fig.8

- 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.
- 22. 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.

 23. Do not operate or stop the unit by inserting or pulling out Die power plug, it may cause electric shock or fire due to heat generation.
- 24. Unplug the unit if strange sounds, smell, or smoke comes from it.



Notes:

- If any parts damage, please contact the dealer or a designated repair shop;
- In case of any damage, please turn off the air switch, disconnect the power supply, and contact the dealer or a designated repair shop;
- In any case, the power cord shall be firmly grounded.
- To avoid the possibility of danger, if power cord is damaged, please turn off the air switch and disconnect the power supply. It must be replaced from the dealer or a designated repair shop.

LEAK DETECTION METHODS

equipment shall be refrigerants, but the sensitivity may not be adequate, or may need recalibration. (Detection flammable refrigerants. Electronic leak detectors shall be used to detect flammable The following leak detection methods are deemed acceptable for systems containing

system, or isolated (by a leak is suspected, all naked flames shall be removed/extinguished. If a leakage of are suitable for use with most refrigerants but the use of detergents containing chlorine shall refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If and the appropriate percentage of gas (25% maximum) is confirmed. Leak detection fluids percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of

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.

7. REMOVAL AND EVACUATION

operations on the pipework are to take place. atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing the system. When the final OFN charge is used, the system shall be vented down to finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within continuing to fill until the working pressure is achieved, then venting to atmosphere, and for this task. Flushing shall be achieved by breaking the vacuum in the system with OFN and process may need to be repeated several times. Compressed air or oxygen shall not be used 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 recovery cylinders. The system shall be "flushed" with OFN to render the unit safe. This circuit by cutting or brazing. The refrigerant charge shall be recovered into the correct refrigerant; purge the circuit with inert gas; evacuate; purge again with inert gas; open the since flammability is a consideration. The following procedure shall be adhered to: remove

ventilation available Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is

. CHARGING PROCEDURES

In addition to conventional charging procedures, the following requirements shall be followed.

- contained in them. equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant Ensure that contamination of different refrigerants does not occur when using charging
- 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).
- Extreme care shall be taken not to overfill the refrigeration system.

carried out prior to leaving the site tested on completion of charging but prior to commissioning. A follow up leak test shall be Prior to recharging the system it shall be pressure tested with OFN. The system shall be leak

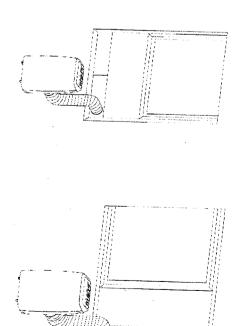
တ DECOMMISSIONING

recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are

Operation Introduction

Before starting operations in this section:

- Find a place where there is power supply nearby.
- As shown in Fig.5 and Fig.5a, install the exhaust hose, and adjust the window position



- ω Insert the power cord into an grounded AC220-240V/50Hz socket;
- 4 As shown in Fig. 6, connect drain hose well (only for using heating model)
- 5 Press the POWER button to turn on the air-conditioner.

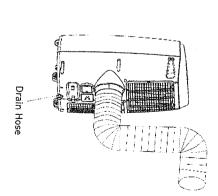


Fig.6

1. Before using

Notice:

Operation temperature range:

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	DB/WB(°C)	
	35/24	Maximum cooling
	18/12	Minimum cooling

DB/WB(°C)	
27/	Maximum heating
7/	Minimum heating

Check up whether the exhaust hose has been mounted properly

Cautions for cooling and dehumidifying operations

- When using functions on cooling and dehumidifying, keep an interval of at least 3 minutes between each ON/OFF.
- Power supply meets the requirements
- The socket is for AC use.
- Do not share one socket with other appliances
- Power supply is AC220--240V, 50Hz

2. Auto mode

According to the current room temperature, automatically select the mode: cooling dehumidifying or fan (see table 1).

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Room Temperature (Tr)	Tr<23°C	23°C≤Tr<26°C	Tr≥26°C
Mode	Heating	Dehumidify	Cooling
Set Temperature	21°C	23°C	25°C

3. Cooling operation

- Press the "MODE" button till the "Cool" icon appears.
- Press the "DOWN" or "UP" button to select a desired room temperature. (16°C -31°C)
- Press the "WIND" button to select wind speed

4. Dehumidifying operation

Press the "MODE" button till the "Dehumidify" icon appears.

- Automatically set the selected temperature to current room temperature minus 2°C. (16°C -31°C)
- Automatically set the fan motor to LOW wind speed

Fan operation

checked for the presence of refrigerant; marking to the equipment continues to be visible and obstructed; if an indirect refrigerating circuit is being used, the secondary circuit shall be

are illegible shall be corrected; 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 suitably protected against being so corroded.

1.9 Checks to electrical devices

cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault parties are advised component inspection procedures. If a fault exists that could compromise safety, then no Repair and maintenance to electrical components shall include initial safety checks and

are exposed while charging, recovering or purging the system; that there is continuity of manner to avoid possibility of sparking; that there no live electrical components and wiring Initial safety checks shall include: that capacitors are discharged: this shall be done in a safe

2. REPAIRS TO SEALED COMPONENTS

absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation. the equipment being worked upon prior to any removal of sealed covers, etc. If it 2.1 During repairs to sealed components, all electrical supplies shall be disconnected from

components, the casing is not altered in such a way that the level of protection is affected. 2.2 Particular attention shall be paid to the following to ensure that by working on electrical This shall include damage to cables, excessive number of connections, terminals not

such that they no longer serve the purpose of preventing the ingress of flammable apparatus is mounted securely. Ensure that seals or sealing materials have not degraded atmospheres. made to original specification, damage to seals, incorrect fitting of glands, etc. Ensure that specifications. Replacement parts shall be in accordance with the manufacturer's

detection NOTE The use of silicon sealant may inhibit the effectiveness of some types of leak

equipment. Intrinsically safe components do not have to be isolated prior to working on them

REPAIR TO INTRINSICALLY SAFE COMPONENTS

the ignition of refrigerant in the atmosphere from a leak Intrinsically safe components are the only types that can be worked on while live in the this will not exceed the permissible voltage and current permitted for the equipment in use. Replace components only with parts specified by the manufacturer. Other parts may result in presence of a flammable atmosphere. The test apparatus shall be at the correct rating Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that

effects of aging or continual vibration from sources such as compressors or fans edges or any other adverse environmental effects. The check shall also take into account the Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp

5. DETECTION OF FLAMMABLE REFRIGERANTS

detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) Under no circumstances shall potential sources of ignition be used in the searching for or

Competence of service personnel

General

Special training additional to usual refrigerating equipment repair procedures is required when equipment with flammable refrigerants is affected

accredited to teach the relevant national competency standards that may be set in In many countries, this training is carried out by national training organizations that are

legislation. The achieved competence should be documented by a certificate.

Training

The training should include the substance of the following

may be dangerous when handled without care. Information about the explosion potential of flammable refrigerants to show that flammables

lighters, light switches, vacuum cleaners, electric heaters. information about potential ignition sources, especially those that are not obvious, such as

Information about the different safety concepts:

enclosure and flammable atmosphere will be released when the enclosure is opened. on the safety. Nevertheless, it is possible that leaking refrigerant may accumulate inside the the housing. Switching off the appliance or opening of the housing has no significant effect on the safety. Care should be taken to ensure sufficient ventilation before. the housing. Switching off the appliance or opening of the enclosure has a significant effect Unventilated - (see Clause GG.2) Safety of the appliance does not depend on ventilation of Ventilated enclosure - (see Clause GG.4) Safety of the appliance depends on ventilation of

Information about the concept of sealed components and sealed enclosures according to the safety. The ventilation of the room shall not be switched off during repair procedures. the room. Switching off the appliance or opening of the housing has no significant effect on Ventilated room - (see Clause GG.5) Safety of the appliance depends on the ventilation of

IEC 60079-15:2010.

Information about the correct working procedures

a) Commissioning

· Ensure that the floor area is sufficient for the refrigerant charge or that the ventilation duct

is assembled in a correct manner.

· Connect the pipes and carry out a leak test before charging with refrigerant

Check safety equipment before putting into service.

b) Maintenance

Portable equipment shall be repaired outside or in a workshop specially equipped for

servicing units with flammable refrigerants. Ensure sufficient ventilation at the repair place.

Be aware that malfunction of the equipment may be caused by refrigerant loss and

short circuit the capacitor terminals usually creates sparks refrigerant leak is possible Discharge capacitors in a way that won't cause any spark. The standard procedure to

Reassemble sealed enclosures accurately. If seals are worn, replace them.

Check safety equipment before putting into service

servicing units with flammable refrigerants · Portable equipment shall be repaired outside or in a workshop specially equipped for

Ensure sufficient ventilation at the repair place

· Be aware that malfunction of the equipment may be caused by refrigerant loss and a

Discharge capacitors in a way that won't cause any spark

Appearance and Function of Control Panel

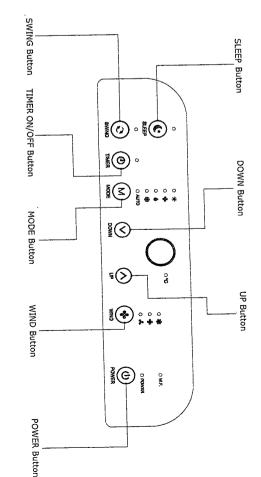
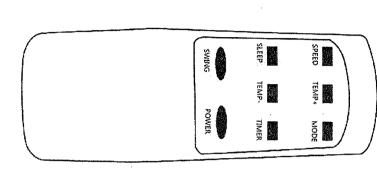


Fig.3

Appearance and Function of Remote Controller



3. TIMER	2. MODE	1. POWER
		~

On/Off switch

4. SPEEL

5. TEMP 7. SLEEP 6. TEMP-

8. SWING

Auto air flow selector Night operation selector Temperature selector down Fan speed selector Hourly programming MODE selector Temperature selector up

Fig.4

electrical power is available before the task is commenced. taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- person; recovery equipment and cylinders conform to the appropriate standards. and being used correctly; the recovery process is supervised at all times by a competen if required, for handling refrigerant cylinders; all personal protective equipment is available c) Before attempting the procedure ensure that :mechanical handling equipment is available
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80% volume liquid charge)
- Do not exceed the maximum working pressure of the cylinder, even temporarily.
- valves on the equipment are closed off. the cylinders and the equipment are removed from site promptly and all isolation) When the cylinders have been filled correctly and the process completed, make sure that
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked

10. LABELLING

refrigerant. The label shall be dated and signed. Equipment shall be labelled stating that it has been de-commissioned and emptied of

Ensure that there are labels on the equipment stating the equipment contains flammable

11. RECOVERY

When removing refrigerant from a system, either for servicing or decommissioning, it Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs. complete with pressure relief valve and associated shut-off valves in good working order. available. All cylinders to be used are designated for the recovered refrigerant and labelled for employed. Ensure that the correct number of cylinders for holding the total system charge are recommended good practice that all refrigerants are removed safely. When transferring that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are

maintained and that any associated electrical components are sealed to prevent ignition in using the recovery machine, check that it is in satisfactory working order, has been properly In addition, a set of calibrated weighing scales shall be available and in good working order. the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. the event of a refrigerant release. Consult manufacturer if in doubt. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before The recovery equipment shall be in good working order with a set of instructions concerning

cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders. The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery

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 to an acceptable level to make certain that flammable refrigerant does not remain within the If compressors or compressor oils are to be removed, ensure that they have been evacuated process. When oil is drained from a system, it shall be carried out safely

Accessories

	Remote Control	2000 E
	Window Kit	
<u> </u>	Hose Connector (Air Conditioner end)	
70.00	Hose Connector (Window end)	S
	Hot-Air exhaust hose	
hd:	Air Conditioner Unit	
Quantity	Description	Parts

Fig.2

check their purposes in the installation introduction in this manual After unpacking, please check whether the above-mentioned accessories are included, and

- When brazing is required, the following procedures shall be carried out in the right order:
- float back into the building doubt, one person should guard the outlet. Take special care that drained refrigerant will not refrigerant to the outside. Take care that the drained refrigerant will not cause any danger. In Remove the refrigerant. If the recovery is not required by national regulations, drain the
- Evacuate the refrigerant circuit.
- Purge the refrigerant circuit with nitrogen for 5 min
- Remove parts to be replaced by cutting, not by flame
- Purge the braze point with nitrogen during the brazing procedure
- Carry out a leak test before charging with refrigerant.
- Reassemble sealed enclosures accurately. If seals are worn, replace them
- Check safety equipment before putting into service.
- d) Decommissioning · If the safety is affected when the equipment is putted out of service, the refrigerant charge
- Ensure sufficient ventilation at the equipment location.

shall be removed before decommissioning.

- refrigerant leak is possible. Be aware that malfunction of the equipment may be caused by refrigerant loss and a
- Discharge capacitors in a way that won't cause any spark.
- doubt, one person should guard the outlet. Take special care that drained refrigerant will not float back into the building. refrigerant to the outside. Take care that the drained refrigerant will not cause any danger. In Remove the refrigerant. If the recovery is not required by national regulations, drain the
- Evacuate the refrigerant circuit.
- Purge the refrigerant circuit with nitrogen for 5 min
- Evacuate again.
- Fill with nitrogen up to atmospheric pressure.
- Put a label on the equipment that the refrigerant is removed.
- · Remove the refrigerant. If the recovery is not required by national regulations, drain the Ensure sufficient ventilation at the working place.
- doubt, one person should guard the outlet. Take special care that drained refrigerant will not float back into the building

Evacuate the refrigerant circuit.

refrigerant to the outside. Take care that the drained refrigerant will not cause any danger. In

- Purge the refrigerant circuit with nitrogen for 5 min
- Evacuate again.
- Cut out the compressor and drain the oil.

Transportation, marking and storage for units that employ flammable refrigerants

Transport of equipment containing flammable refrigerants

by the applicable transport regulations. Marking of equipment using signs the configuration of the equipment, permitted to be transported together will be determined to equipment containing flammable gas. The maximum number of pieces of equipment or Attention is drawn to the fact that additional transportation regulations may exist with respect

and give the minimum requirements for the provision of safety and/or health signs for a work Signs for similar appliances used in a work area generally are addressed by local regulations

All required signs are to be maintained and employers should ensure that employees receive suitable and sufficient instruction and training on the meaning of appropriate safety signs and the actions that need to be taken in connection with these signs.

The effectiveness of signs should not be diminished by too many signs being placed.

The effectiveness of signs should not be diminished by too many signs being placed together.

Any pictograms used should be as simple as possible and contain only essential details. Disposal of equipment using flammable refrigerants

See national regulations.

Storage of equipment/appliances

The storage of equipment should be in accordance with the manufacturer's instructions. Storage of packed (unsold) equipment

Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.

The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

Name of Parts

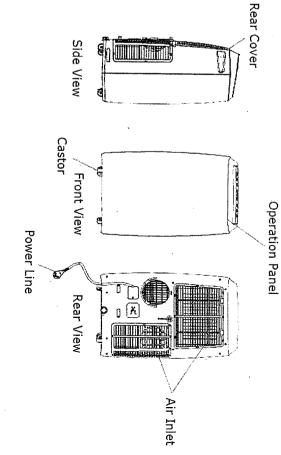


Fig.1