

Panasonic

Installation Manual



	nequired tools for installation works
	1 Phillips screw driver 8 Megameter 2 Level gauge 9 Multimeter
R32	3 Electric drill 10 Torque wrench 4 Spanner 117.8 hvm (11.6 kghm) 5 Knife 11 Vacuum pump 6 Gas leak detector 12 Gauge manifold 7 Measuring tape
	Explanation of symbols displayed on the indoor unit or outdoor unit.
BLOC contains and operates with refrigerant R32.	WARNING This symbol shows that this equipment uses a flammable
THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED	ignition source, there is a possibility of ignition.
BY GUALTHED PERSONNEL Refer to National, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.	CAUTION This symbol shows that the Installation Manual should be in carefully.
	CAUTION This symbol shows that a service personnel should be hard this equipment with reference to the Installation Manual.
	This symbol shows that there is information included in the Council on Manual and/or lentalizing Manual

0 SAFETY PRECAUTIONS Read the following "SAFETY PRECAUTIONS" carefully before installation of (Mono bloc) Air-to-Water Heatpump system (hereafter referred to as "Mono bloc unit"). Electrical works and water installation works must be done by licensed electrician and licensed water system installer respectively. Be sure to use the correct rating and main circuit for the model to be installed The caution is the index to be nature
 To caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below.
 Incomet installation due to journance or negligence of the instructions will cause harm or damage, and the seriousness is classified by the following indications. This indication shows the possibility of causing death or serious injury. CAUTION
 This indication shows the possibility of causing injury or damage to properties only. 0 The items to be followed are classified by the symbols: \otimes Symbol with white background denotes item that is PROHIBITED vicing 00 Symbol with dark background denotes item that must be carried out 2-1. Service personnel · Carry out test run to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Pleas remind the customer to keep the operating instructions for future reference. . If there is any doubt about the installation procedure or operation, always contact the authorized dealer for advice and information This appliance is not intended for accessibility by the general public. Please leave this installation manual to the user after A WARNING 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 material may cause product damane, burst and various informations 2-2. Work terial may cause product damage, burst and serious injury. Do not install Mono bloc unit near handsail of veranda. When installing Mono bloc unit at veranda of high rise building, child may climb up to Mono bloc unit at coss over the handrail and causing 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. Poo contact, poor insulation or over current will cause electrical shock or fire. Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen. 2-3. Checking for presence of refrigerant Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury. Do not sit or step on the unit, you may fall down accidentally. Keep plastic bag (packaging material) away from small children, it may cling to nose and mouth and prevent breathing. O Do not purchase unauthorized electrical parts for installation, service, maintenance and etc... They might cause electrical shock or fire 2-4. Presence of fire extinguisher 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 an cause injury or death. Do not modify the wiring of Mono bloc unit for installation of other components (i.e. heater, etc). Overloaded wiring or wire connection points may cause elect shock or fire. 2-5. No ignition sources A O not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc. This Mono bloc unit is a multi supply appliance. All circuits must be disconnected before accessing the unit terminals eased to the surrounding space. P 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 shock or fire. "No Smoking" signs shall be displayed. For water circuit installation work, follow to relevant European and national regulations (including EN61770) and local plumbing and building regulation codes. 2-6. Ventilated area 0 ngage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fin Install according to this installation instructions strictly. If installation is defective, it will cause water leakage electrical shock or fire 2-7. Checks to the refrigerating equipment Only use the supplied or specified installation parts. Else, it may causes Mono bloc unit vibrate, fall, water leakage, electrical shock or fin Install at a flat, strong and firm location which is able to withstand the Mono bloc unit's weight. If the location is slanting, or strength is not enough the se 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 Residual Current Device (RCD) on-site according to the respective national wiring rules pecific safety measures in terms of residual current. 0 2-8. Checks to electrical devices 0 The unit is only for use in a closed water system. Utilization in an open water system may lead to excessive corrosion of the water piping and risk of incubat bacteria colonies, particularly Legionella, in water. If there is any doubt about the installation procedure or operation, always contact the authorized dealer for advice and information. Select a location where in case of water leakage, the leakage will not cause damage to other properties When installing electrical equipment at wooden building of metal lath or wire lath, in accordance with electrical facility standard, no ele equipment and building is allowed. Insulator must be installed in between. 0 This installation may be subjected to building regulation approval applicable to respective country that may require to notify the local authority before installation Any work carried out on the Mono bloc unit after removing any panel which is secured by screws, must be carried out under the supervision of authori nd licensed installation contractor Be aware that refrigerants may not contain an odour. 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 cau
electrical shock in case of equipment breakdown or insulation breakdown. azardous situation

O Do not install the Mono bloc unit at place where leakage of flammable gas may occur. In case gas leaks and accur it may cause fire. A Do not release refrigerant during piping work for installation, re-installation and during repaining a refrigeration parts. Take care of the liquid refrigerant, it may cause froatbile. Make sure the insulation of power supply cord does not contact hot part (i.e. refrigerant piping, water piping) to prevent from insulation failure (melt Do not touch the sharp aluminium fin, sharp parts may cause injury. N Do not apply excessive force to water pipes that may damage the pipes. If water leakage occurs, it will cause flooding and damage to other properties 0 Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water leakage may happen and may cause damage to pro the user. The piping installation work must be flushed before the Mono bloc unit is connected to remove contaminants. Cont 0 Select an installation location which is easy for maintenance. Incorrect installation, service or repair of this Mono Bloc unit may increase the risk of rupture and thi may result in loss damage or injury and/or property. 0 Bensure the correct polarity is maintained throughout all wiring. Otherwise, it will cause electrical shock or fire. Ø Deer spay's connection to Mano Bioc unit. • Poer supply contraction to Mano Bioc unit. • Poer supply contractional be no assily accessible place for power discontection in case of emergency. • Strady recommended on male parameter downection to a circul breaker. If must be a double pole switch with a minimum 30 mm pape. • Poere Supply : Lise approved 30:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Poere Supply : Lise approved 30:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or Use approved 20:A +poles circul breaker with a minimum contract gap of 30mm. (Driv applicable for WH-MXC03ADEB) or How the strained for the strained for the format for the strained for the str • Ensure the correct polarity is maintained throughout all wiring. Otherwise, it will cause electrical shock or fire. A After installation, the installer is obliged to verify correct operation of the Mono bloc unit. Check the connection point for water leakage during test run. If leakage occurs, it will cause damage to other properties. Lask detection fluids are also suitable for use with most refingerants, for example, bubble method and fluorescent method agents. The use of detergents containing choine shall be avoided as the choine may mast with the refigurant and controls the copper pipework. I a lawk is supported, all like removal displayment. 0 eep any required ventilation openings clear of obstructio

Four or more people are required to carry out the installation work. The weight of Mono bloc unit might cause injury if carried by less than four people.

PRECAUTION FOR USING R32 REFRIGERANT The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. However, pay careful attention to the following points: / WARNING ince the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special. specially, when replacing a refrigerant R22 model with a new refrigerant R32 model, always replace the conventional piping with the R32 and R410A piping on the outdoor unit side or R32 and R410A he same pipe can be used. 0 i naz and ner ton, are same pape can be doed. e mixing of different refigerants within a system is prohibited. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and 0 erefore, check beforehand. [The charging port thread diameter for R32 and R410A is 12.7 mm (1/2 inch).] 0 Ensure that foreign matter (oil, water, etc.) does not enter the piping. Departion maintenance, repairing and refrigerant recovery should be carried out by trained and certified personnel in the use of flammable refrigerants and as 0 Opfantsir, maneralizo, tspäining and refigerant occurry structure to called up to full and a no centerby refision ier is if the over iteration and the called up to the trained and certification on a system of associated parts of the explorent should be trained and certification.
 Any part of refigeranting circuit (evaporators, air coolers, AHU, condensers or liquid receivers) or piping should not be located in the predection. The user/owner or their authorized representative shall regularly check the alarms, mechanical ventilation and detectors, at least once a year, where as rec A logbook shall be maintained. The results of these checks shall be recorded in the logbook. In case of ventilations in occupied spaces shall be checked to confirm no obstruction. 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 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 the refrigerant used. Instanta action the constructions, supervisors, special on a to instrument or une reinighting system (as were as the safery in the general requirement of tained and confiled personal as in a clicated as above. B) Extailed involved or and skills in andiring flammable reinigensitz, sensit, and excitive explorent, reinigenant leakage c) Extailed involved or and skills in andiring flammable reinigensitz, sensitian and excitive explorent, reinigenant leakage c) Extailed involved or and skills in andiring flammable reinigensitz, sensitian and excitive explorent, reinigenant leakage c) Abite to understand and to apply in practice the requirements in the national legislation, regulations and Standards; and, d) Continuously unders peakar and intert training to mattain the expertise. tion, handling of cylinders, charging, leak detection, Protect the refrigerating system from accidental rupture due to moving furniture or reconstruction activities. To ensure no leaking, refrigerant joints shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0.25 times the maximum allows
pressure (>1.04MPa, max 4.3MPa). No leak shall be detected. Mark correctly with individual paragraphicals, state markinglen inter and begintation. Notify relevant authorities in accordance with all applicable regulations.
 Mark correct mechanical correctors be accessible for markeness or purposes.
 In cases that require mechanical writefliking, ventiliking operangles shall be kept clear of detructions.
 Mark disparal of the product, bolistice to be precadured, in 117 and comply with that and implications. Always contact to local municipal offices for proper handling. 21. Service parameters in the service parameters of the service par (22. work) Pior to beginning work on systems containing flammable religionsite, safety checks are necessary to ensure that the risk of ignition is minimised. For spatial to be affigionaling system, the precadation R22 is R24 must be followed before conducting work on the system. Work and be underlated much are controlled procedure so as to minimise the risk of all another gates much being performed. • All maintenance staff and others working in the local area shall be instructed and supervised on the name of work being cannot be used as the two test and the result of the system. • All maintenance staff and others working in the local area shall be instructed and supervised on the name of work being cannot be used as the staff or the system. • Work and shall proceed the systems, the staff or greater and the staff or the system of the system and all least 2 meter in nadus. • Working all sources of system and the instems periods on a conditions warrant. • Keep all sources of system and the staffs area share to staff as the system of the system. The set of the set o 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
 Have a dry powder or CO₂ fire extinguisher adjacent to the charging area. 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 ignition in such a manner that if any lead to the risk of life or explosion. HoSNe must not be anxioing when carrying out such work. All possible jointion courses, including ogneties emskings, should be explored to the rest of the r 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 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 When a decisial components are being changed, they table to file for the purpose and to the correct specification.
 Vi all times the manufacturin's interface and device gradients shall be followed.
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 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. Repairs to sealed components During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. 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 most critical point to warn of a potentially nazarous susana. 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 protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seats, incorrect fitting of glands, etc. Ensure that apparatus is mounted securely. Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres eplacement parts shall be in accordance with the manufacturer's specifications. 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. Benair to intrinsically safe components ent industrive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equip Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmospher The lest 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 leak Cabing
 Check that cabing 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. Detection of flammable refrigerants Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks A halds for the (are synchre director using a natural time) shall not be used.
 The following last study (are synchre director using a natural time) shall not be used.
 The following last director networks are exampled for a full director and synchre director director director and synchre director director director and synchre director direc Description has detached and by calcular to stated thermality indergramma, but the section hyper and not adequate, or may need re-calibration. Description origination with the calculated in an element-fore and is subble for the refregerent case. Ensure that the detached is not a patternal source of gradions and is subble for the refregerent case. Laid detached negatives that the set at gradiential source of gradions and is subble for the refregerent case.

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.
The precautions in #8 must be followed to remove the refrigerant.

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used However, it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to: • remove refrigerant -> • purge the circuit with inert gas -> • evacuate -> • purge with inert gas -> • open the circuit by cutting or brazing The refigrent drugs is all be recovered incry (refers.
 The refigrent drugs is all be recovered incry (refers.
 The system shall be purged with DFN be refer the appliances sale. (remark: OFN = oxygen free nitrogen, type of inert gas)
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 Oragen shall be repeated scale in the system.
 The purges shall be scale by the shall be verified of with almospheric pressure is achieved, then verifing to almosphere, and finally pulling down to a vace
 The purges shall be appeaded will no referegard is with the system.
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 The purges shall be appeaded will no referegard is with the system.
 The purges shall be appeaded of the stack
 The purges shall be stack Charging procedures
 In addition to conventional charging procedures, the following requirements shall be followed. Ensure that contamination of different refrigerants does not occur when using charging equipment Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them Cylinders shall be kept in an appropriate position according to the instructions.
 Ensure that the refrigerating system is earthed prior to charging the system with refrigerant 0 Label the system when charging is complete (if not already) Extreme care shall be taken not to over fill the refrigerating system Externe care shall be baken not to veri lift her effigranting system.
 Fortor nervanging the system i shable bergense testekt with ON (refer to #7).
 The system shall be bak tested on completion of charging but priori to commissioning.
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 Bechostatic chargin may accumulate and create a hazardosa condition when charging and discharging the refigerant.
 To avoid the rei orabicini, disagabit static carried rule dimensioned and belaving the refigerant.
 To avoid the rei orabicini, disagabit static carried rule dimensioned and the site of the site of the site of the site. Deco Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.
 a) Become familiar with the equipment and its operation. f) Make sure that cylinder is situated on the scales before recovery takes place Isolate system electrically. g) Start the recovery machine and operate in accordance with instruction g) Sant the recovery machine and openate in accordance with instructions.
b) Do not cereft givedms, Nk) once than 60 % volume legicid dragne).
0 Do not accored the maximum working pressure of the cylinder, even temporarily.
1) When the cylinders have been filled corredy and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation values on the equire coded of the cylinder. Before attempting the procedure ensure that: 0 mechanical handling equipment is available, if required, for handling refrigerant cylinders; all personal protective equipment is available and being used correctly:
 the recovery process is supervised at all times by a competent person; · recovery equipment and cylinders conform to the appropriate standards Concerve equipment and cynones common to the approximate anatoxical
 Provide and registrant statist not be charged
 Cleaned and checked.
 Pland come registrant statist not be charged
 cleaned and checked.
 Cleaned and checked. Recovered refrigerant shall not be charged into another refrigerating system unless it has been Equipment shall be labelled stating the
 The label shall be dated and signed. ment shall be labelled stating that it has been de-commissioned and emptied of refrigerant A Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant 2. Recovery When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely. When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
 Ensure that the correct number of cylinders for holding the total system charge are avaitable. 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 ord 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 equip
 In addition, a set of calibrated weighing scales shall be available and in good working order. ment that is at hand and shall be suitable for the recovery of flar Inscription, a see or unotated weighing sadies shall be available and in good working order.
 Issues table be completer with leak-the disconned couplings and in good working order.
 Brease table be noneway machine, check that it is natisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refigrant release.
 Consult manufacturer if in doubt. A 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 compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that filammable refrigerant does not remain within the lubrican The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric beating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely No. Part Accessories part Qty. AC230V 2-way valve kit Electromotoric Actuator 2-port Valve SFA21/18 VVI46/25 Siemens O) 1 AC230V 3-way valve kit ober cap Ø 3-port Valve VXI46/2 Siemens 8 Room thermostat AC 22/0V AC230V AC230V iv Mixing valve 167032 Caleffi Wilo v Pump vi Buffer tank sensor PAW-A2W-TSO PAW-A2W-TSP PAW-A2W-TSF PAW-A2W-TSF vii Outdoor sensor viii Zone water sensor Optional Accessory viii Zone water sensor ix Zone room sensor x Solar sensor Accessories part Qtv. Optional PCB (CZ-NS4P ind to o a the field supply a Base Pan Heater (CZ-NE3P) 1 (Handling of Mono bloc unit) Network Adaptor (CZ-TAW1) 1 Mono bloc unit is a large and heavy apparatus. The handling of the unit only to be done by ifting tools with slings. These slings can be fitted into sleeves at the unit's base frame. Network Adaptor Cable (CZ-TAW1-CBL 1 (Dimension Diagram) Main Components Bottom view Bear vie allen / \mathbb{P} Heater assembly
 Overload protect
 Pressure relief v
 Air purge valve
 Water Filter Set
 Plug (2 pieces) Water Pressure gaug Water Outlet Pipe Water pump
 Cabinet top plate
 Expansion vessel (Nr Water Inlet Pipe

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