

Installation Manual

AIR-TO-WATER HYDROMODULE + TANK

WH-ADC0916H9E8AN

Required tools for Installation Works

- | | | | |
|-------------------------|------------------|------------------|-----------------------|
| 1 Phillips screw driver | 6 Pipe cutter | 9 Megarimeter | 58.8 Nm (5.8 kgfcm) |
| 2 Level gauge | 7 Spanner | 10 Multimeter | 60 Nm (6.0 kgfcm) |
| 3 Electric drill | 8 Knife | 11 Torque wrench | 117.6 Nm (12.0 kgfcm) |
| 4 Spanner | 9 Measuring tape | | 42 Nm (4.2 kgfcm) |

SAFETY PRECAUTIONS

Read the following "SAFETY PRECAUTIONS" carefully before installation of Air-To-Water Hydromodule + Tank (hereafter referred to as "Tank Unit"). Electrical work and water piping work must be done by licensed electrician and licensed water system installer respectively. The user is to use the correct wiring and main circuit for the model to be installed. The operation being listed here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Installation should be done in accordance with the instructions to cause harm and damage, and the seriousness is classified by the following indicators.

WARNING 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.

The items to be observed are classified by the symbols:

- Symbol with white background denotes item that is PROHIBITED from doing.
- Symbol with black background denotes item that must be carried out.

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. Please 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.

WARNING Do not use unapproved cord, modified cord, joint cord or extension cord to power supply cord. Do not share the single outlet with other electrical appliances. Floor contact, poor insulation or over current will cause electrical shock or fire.

Do not place the power supply cord into a hole or under the carpet. Abnormal temperature, heat, power supply cord may happen.

Keep plastic bag (packaging material) away from small children. It may be ingested or used as small and smooth and prevent breathing.

Do not use pipe which is installed refrigerant piping. It might release the piping and cause unit to malfunction.

Do not purchase unapproved electrical parts for installation, service, maintenance and etc. They might cause electrical shock or fire.

Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.

Do not place containers with liquids on top of the Tank Unit. It may cause Tank Unit damage and/or could occur if they leak or spill onto the Tank Unit.

Do not use any parts for Tank Unit Outdoor Unit connection cable. Use specified Tank Unit Outdoor Unit connection cable. Refer to instruction. **CONNECT THE CABLE TO THE TANK UNIT** Outdoor Unit connection cable. Connect the cable to the Tank Unit. Use only the cable that is not damaged or the terminal. If connection or being is not perfect, it will cause heat-up or fire at the connection.

Do not use the hot water produced by the Tank Unit for drinking or food preparation. It may cause illness to the user.

For electrical work, follow local wiring standards, regulation and installation instruction. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough, do not connect to electrical work. It will cause electrical shock or fire.

For water circuit installation work, follow relevant European and national regulations (including EN1717) and local plumbing and building regulations codes.

Engage dealer or specialist for installation. If installation does not in user is defective, it will cause water leakage, electrical shock or fire.

Thick for a RFD model, when connecting the piping, do not use any existing RFD piping and bare nuts. Using such same may cause abnormal high pressure and rupture of piping, and possibly result in explosion and fire. Please refer to the instruction for details.

Thinness for copper pipes used with RFD must be 0.8 mm or more. Never use copper pipes thinner than 0.8 mm. It is recommended that the amount of residual air is less than 0.1 m³/m³.

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Do not over-tighten, over-tightening may cause gas leakage.

Do not over-tighten, over-tightening may cause water leakage.

Make sure flare after inserting flare nut (located at joint portion of tube assembly) onto the copper pipe. (It is called crimping long piping).

Do not use pipe wrench to open refrigerant piping. Flare nut may be broken and cause leakage. Use proper spanner or ring wrench.

Connect the piping.

Align the center of piping and sufficiently tighten the flare nut with torque wrench.

Further tighten the flare nut with torque wrench in specified torque as stated in the table.

CUTTING AND FLARING THE PIPING

Remove cut using pipe cutter and then remove the burrs.

Flare cut using pipe cutter. If burrs is not removed, gas leakage may be caused. Turn the piping and down to avoid the metal powder entering the pipe.

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When install or relocate Tank Unit, do not let any dust settle onto the specified refrigerant, gas, air or mix refrigerant cycle piping. Many of air etc. will cause abnormal high pressure in refrigeration cycle and result in explosion, injury etc.

Install according to the installation instructions sheet. If installation is defective, it will cause water leakage, electrical shock or fire.

Install at a strong and firm location which is able to withstand the air weight. If the strength is not enough or installation is not properly done, the set will tilt and cause water leakage.

The equipment is strongly recommended to be installed with Fixed Guard Device (FGD) on-site according to the respective national wiring rules or country-specific safety measures in terms of terminal current.

During installation, make sure to follow the instructions before the compressor operation. Operation of compressor without refrigerant piping and valves at opened condition will cause shock of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.

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When installing electrical equipment at wooden building of metal salt or wire, in accordance with electrical safety standards, no electrical contact between equipment and building is allowed. Heater must be disconnected before working.

Any work carried out on the Tank Unit after removing any panels which is secured by screws, must be carried out under the supervision of authorized dealer and locked installation instruction.

Select a location where in case of water leakage, the leakage will not cause damage to other properties.

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For cold water supply tap, a backflow regulator, check valve or water meter with check valve, provisions for thermal expansion of water in the hot water system must be provided. Otherwise, it will cause water leakage.

The piping installation must be finished before Tank Unit is connected to remote controller. Contents may damage the Tank Unit components.

This installation may be subjected to building regulation approval to respective countries that may require to notify the local authority before installation.

The Tank Unit must be shipped and stored in upright condition and dry environment. It may leak on back when being moved to the building.

Work done on the Tank Unit after removing the front plate cover that secured by screws, must be carried out under the supervision of authorized dealer. Locked installation instruction should be followed.

This unit must be properly earthed. The electrical earth must not be connected to a gas pipe, water pipe, the earth of lightning rod or a telephone. Otherwise there is a risk of electric shock to the terminal board, and to the other end of the power supply cable.

Do not install the Tank Unit in place where leakage of flammable gas may occur or in case gas leaks and accumulates at surrounding of the unit, it may cause fire.

Do not release refrigerant during piping work for installation, re-installation and during repairing a refrigeration part. Take care of the liquid refrigerant, it may cause fire.

Do not install the appliance in a laundry room or other high humidity location. This condition will cause rust and damage to the unit.

Do not install the appliance in a power supply cord do not contact hot part (i.e. refrigerant piping, water piping) to prevent from insulation flake (fall).

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.

Do not transport the Tank Unit with water inside the unit. It may cause damage to the unit.

Select an installation location which is easy for maintenance.

Power supply connection to Tank Unit:

Field Supply Accessories (Optional)

No.	Part	Model	Specifications	Material
1	Pressure Relief Valve	PRV-10	Pressure Relief Valve	BRASS
2	Water Filter	WF-10	Water Filter	PLASTIC
3	Water Meter	WM-10	Water Meter	BRASS
4	Water Meter	WM-10	Water Meter	BRASS
5	Water Meter	WM-10	Water Meter	BRASS
6	Water Meter	WM-10	Water Meter	BRASS
7	Water Meter	WM-10	Water Meter	BRASS
8	Water Meter	WM-10	Water Meter	BRASS
9	Water Meter	WM-10	Water Meter	BRASS
10	Water Meter	WM-10	Water Meter	BRASS
11	Water Meter	WM-10	Water Meter	BRASS
12	Water Meter	WM-10	Water Meter	BRASS
13	Water Meter	WM-10	Water Meter	BRASS
14	Water Meter	WM-10	Water Meter	BRASS
15	Water Meter	WM-10	Water Meter	BRASS
16	Water Meter	WM-10	Water Meter	BRASS
17	Water Meter	WM-10	Water Meter	BRASS
18	Water Meter	WM-10	Water Meter	BRASS
19	Water Meter	WM-10	Water Meter	BRASS
20	Water Meter	WM-10	Water Meter	BRASS

Optional Accessories

No.	Part	Model	Specifications	Material
1	Remote Controller	RC-10	Remote Controller	PLASTIC
2	Remote Controller	RC-10	Remote Controller	PLASTIC
3	Remote Controller	RC-10	Remote Controller	PLASTIC
4	Remote Controller	RC-10	Remote Controller	PLASTIC
5	Remote Controller	RC-10	Remote Controller	PLASTIC
6	Remote Controller	RC-10	Remote Controller	PLASTIC
7	Remote Controller	RC-10	Remote Controller	PLASTIC
8	Remote Controller	RC-10	Remote Controller	PLASTIC
9	Remote Controller	RC-10	Remote Controller	PLASTIC
10	Remote Controller	RC-10	Remote Controller	PLASTIC

