

Installation Manual
AIR-TO-WATER HYDROMODULE + TANK
WH-ADC0916H8E8AN

Required tools for Installation Works

- 1 Phillips screw driver
- 2 Level gauge
- 3 Electric drill
- 4 Spanner
- 5 Pipe cutter
- 6 Reamer
- 7 Knife
- 8 Measuring tape
- 9 Megameter
- 10 Multimeter
- 11 Torque wrench
- 12 Wrench (12.0 kg/cm)

SAFETY PRECAUTIONS

- Read the following "SAFETY PRECAUTIONS" carefully before installation of Air-To-Water Hydromodule + Tank (hereafter referred to as "Tank Unit").
- Electrical works are to 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 caution items related to the following are to be followed because these important contents are related to safety. The meaning of each indication used is as below. Important installation due to ignorance or negligence of the instructions will cause harm and damage, and the seriousness is classified by the following indicators.
- Please leave this installation manual with the unit after installation.

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 followed 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 This indication shows the possibility of causing death or serious injury.

- Do not use ungrounded cord, modified cord, joint cord or extension cord to 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.
- Do not place the power supply cord into a bundle by hand. Abnormal temperature rise in power supply cord may happen.

- Keep plastic bag (packaging material) away from small child, it may clog its nose and mouth and prevent breathing.
- Do not use power switch to install refrigerant piping. It might damage the piping and cause the Tank Unit to malfunction.

- Do not purchase unauthorized 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 fire could occur if they leak or spill onto the Tank Unit.
- Do not use any tools for Tank Unit/ Outdoor Unit connection cable. Use specified Tank Unit/ Outdoor Unit connection cable, refer to instruction. **CONNECT** electrical cable to the TANK UNIT and connect piping to Tank Unit/ Outdoor unit connection cable respectively. Clamp the cable so that no external force will act on the terminal. If connection or flaring is not perfect, it will cause leak or fire at the connection.

- Do not use 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 the installation instruction. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire.
- For water circuit installation work, follow relevant European and national regulations (including EN1751) and local plumbing and building regulation codes.

- Engage dealer or specialist for installation. If installation done by the user is defective, it will cause water leakage, electrical shock or fire.

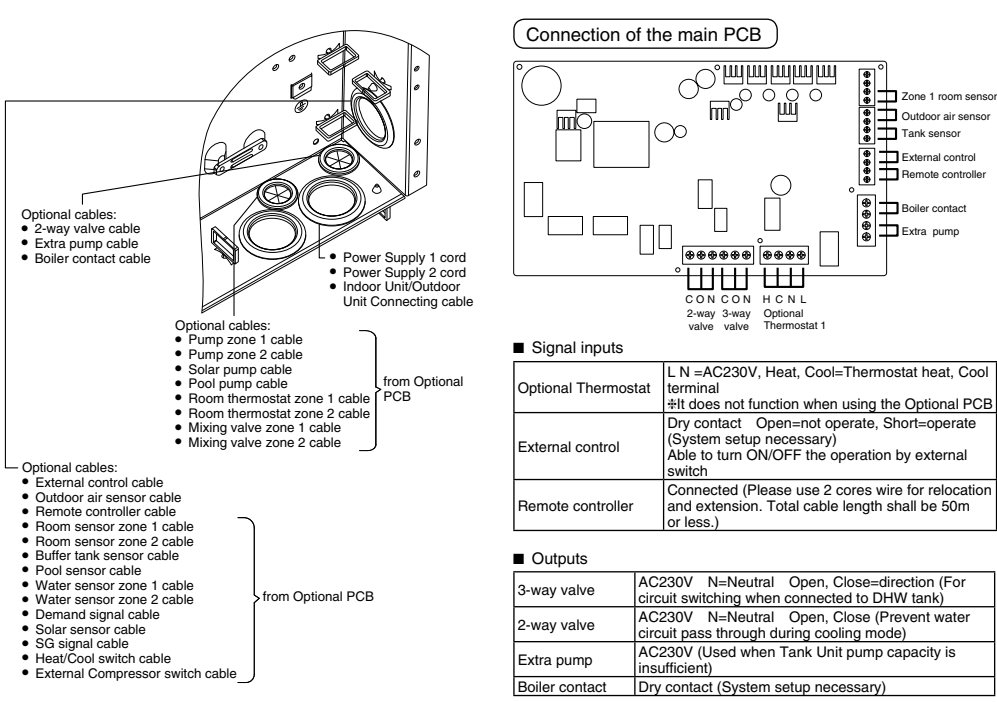
- This is a R410A model, when connecting the piping, do not use any existing R22 piping and fan runs. Using such system may cause abnormal high pressure (overpressure) and possible result in explosion and injury. Use only R410A refrigerant.
- Thickness for copper pipes used with R410A must be 0.8 mm or more. Newer use copper pipes thinner than 0.8 mm.

- Do not use the equipment of residual air less than 0.7 m/s.

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- 1. Connect Tank Unit to Air-to-Water Heatpump Outdoor Unit with the following model.

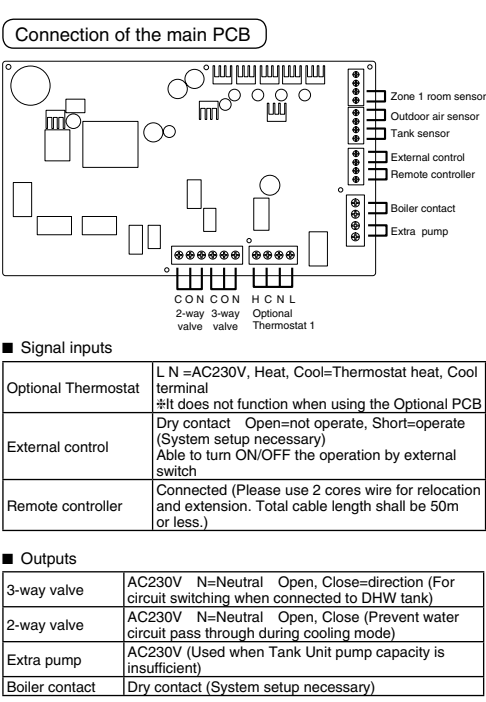
Model	Piping size (Torque)
Tank Unit	Outdoor Unit
WH-UX09H8E, WH-UX12H8E, WH-UX15H8E, WH-UX18H8E, WH-UX21H8E, WH-UX24H8E, WH-UX27H8E, WH-UX30H8E, WH-UX36H8E, WH-UX42H8E	Gas: 1/2" (1.58mm) 3/4" (1.91mm) 1" (2.54mm) 1 1/4" (3.18mm) 1 1/2" (3.81mm) 1 3/4" (4.45mm) 2" (5.08mm) 2 1/2" (6.35mm) 3" (7.62mm) 3 1/2" (8.91mm) 4" (10.16mm) 4 1/2" (11.43mm) 5" (12.7mm) 6" (15.24mm) 8" (20.32mm) 10" (25.4mm) 12" (30.48mm) 14" (35.56mm) 16" (40.64mm) 18" (45.72mm) 20" (50.8mm) 22" (55.88mm) 24" (60.96mm) 26" (66.04mm) 28" (71.12mm) 30" (76.2mm) 32" (81.28mm) 34" (86.36mm) 36" (91.44mm) 38" (96.52mm) 40" (101.6mm) 42" (106.68mm) 44" (111.76mm) 46" (116.84mm) 48" (121.92mm) 50" (127mm) 52" (132.08mm) 54" (137.16mm) 56" (142.24mm) 58" (147.32mm) 60" (152.4mm) 62" (157.48mm) 64" (162.56mm) 66" (167.64mm) 68" (172.72mm) 70" (177.8mm) 72" (182.88mm) 74" (187.96mm) 76" (193.04mm) 78" (198.12mm) 80" (203.2mm) 82" (208.28mm) 84" (213.36mm) 86" (218.44mm) 88" (223.52mm) 90" (228.6mm) 92" (233.68mm) 94" (238.76mm) 96" (243.84mm) 98" (248.92mm) 100" (254mm) 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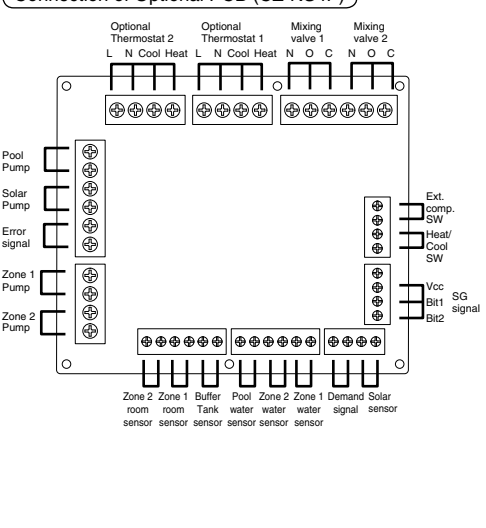
Connecting Cables Length

When connecting cables between Tank Unit and external devices, the length of the said cables must not exceed the maximum length as shown in the table.

External device	Maximum cables length (m)
Mixing valve	50
Two-way valve	50
Room thermostat	50
Extra pump	50
Solar pump	50
Pool pump	50
Boiler control	50
External control	50
Room sensor	30
Outdoor air sensor	30
Buffer tank sensor	30
Pool water sensor	30
Solar sensor	30
Water sensor	30
Demand signal	50
SG signal	50
Heat/Cool switch cable	50
External compressor switch	50



Connection of Optional PCB (CZ-NS4P)



First time of power ON (Start of installation)

