



# INSTALLATION MANUAL

## 2-way valve kit for heat pump convector

EKVKHPC

**!** Read this manual attentively before installation. Do not throw it away. Keep it in your files for future reference.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin that are specifically designed for the use with the equipment and have them installed by a professional.

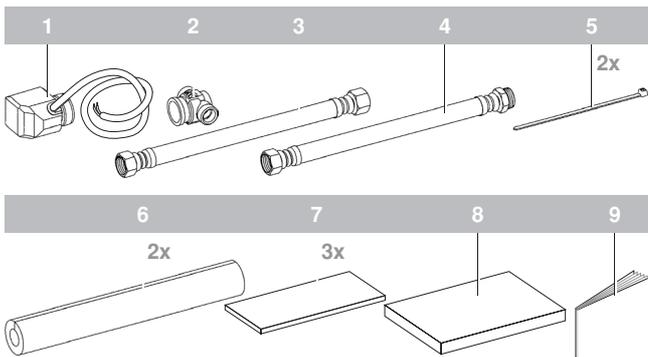
If unsure of installation procedures or use, always contact your dealer for advice and information.

The English text is the original instruction. Other languages are translations of the original instructions.

This option kit needs to be used in combination with Daikin heat pump convectors.

The units are equipped with a water inlet and water outlet for connection to a water circuit. This circuit must be provided by a licensed technician and must comply with all relevant European and national regulations.

**ACCESSORIES SUPPLIED WITH THE KIT**



- 1 Actuator
- 2 2-way valve
- 3 Flexible piping (2x 1/2" Female BSP)
- 4 Flexible piping (1/2" Female BSP x 1/2" Male BSP)
- 5 Clamp
- 6 Thermal insulation
- 7 Insulation material for piping connections
- 8 Insulation material for 2-way valve
- 9 Installation manual

**CONNECTION OF THE HEAT PUMP CONVECTOR TO FIELD PIPING BY USE OF THE 2-WAY VALVE**

Refer to the installation manual of the indoor unit for details on installing the indoor unit.

**!** Be careful not to deform the unit piping by using excessive force when connecting the piping. Deformation of the piping can cause the unit to malfunction.

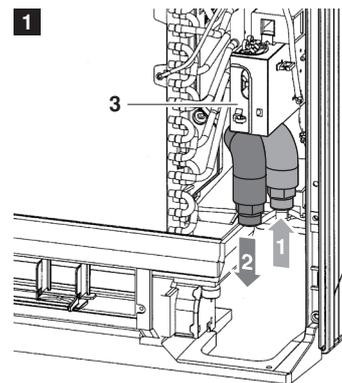
If air, moisture or dust gets in the water circuit, problems may occur. Therefore, always take into account the following when connecting the water circuit:

- Use clean pipes only.
- Hold the pipe end downwards when removing burrs.
- Cover the pipe end when inserting it through a wall so that no dust and dirt enter.
- Use a good thread sealant for the sealing of the connections. The sealing must be able to withstand the pressures and temperatures of the system.
- When using non-brass metallic piping, make sure to insulate both materials from each other to prevent galvanic corrosion.
- Because brass is a soft material, use appropriate tooling for connecting the water circuit. Inappropriate tooling will cause damage to the pipes.

- **!** The unit is only to be used in a closed water system. Application in an open water circuit can lead to excessive corrosion of the water piping.
- Never use Zn-coated parts in the water circuit. Excessive corrosion of these parts may occur as copper piping is used in the unit's internal water circuit.

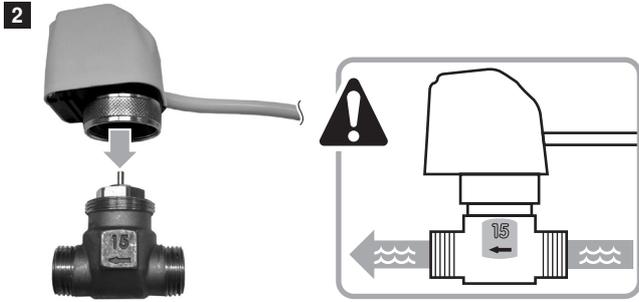
**Install the 2-way valve kit on the heat pump convector**

Perform following steps to install the 2-way valve and connect it to the heat pump convector.

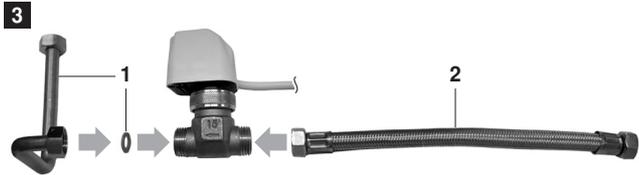


- 1 Water inlet
- 2 Water outlet
- 3 Heat pump convector switch box

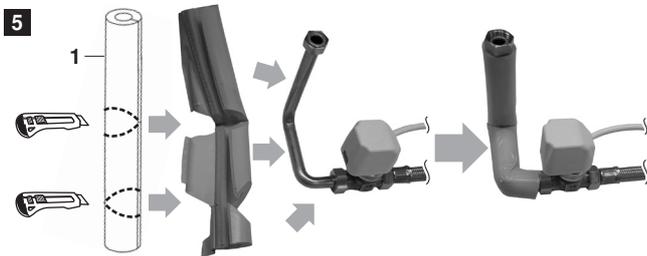
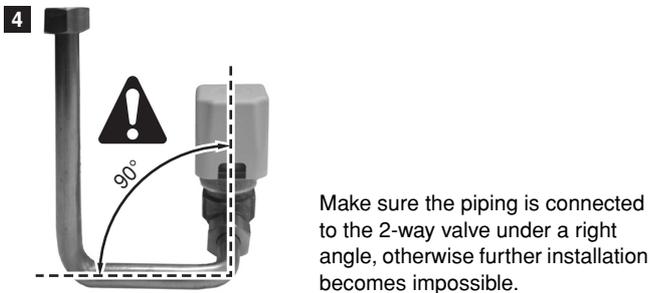
## Water inlet piping



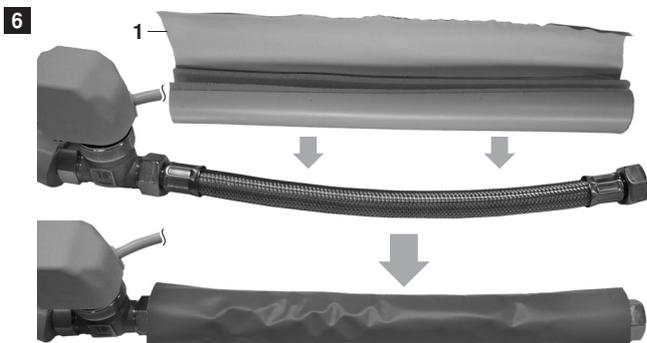
Mount as shown above (pay attention to the direction of the arrow on the 2-way valve).



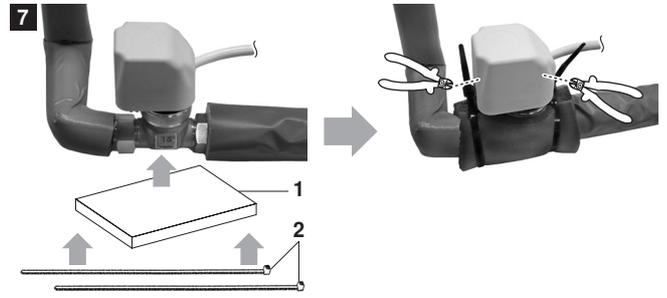
- 1 Parts supplied with the heat pump convector
- 2 Flexible piping (2x 1/2" Female BSP)



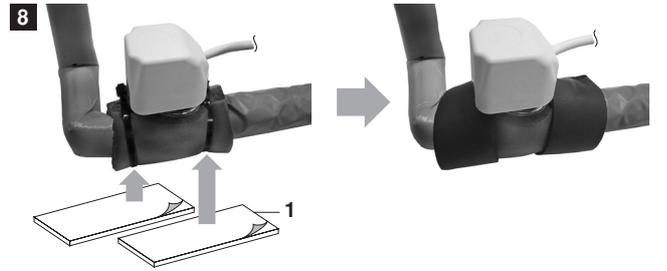
- 1 Part supplied with the heat pump convector



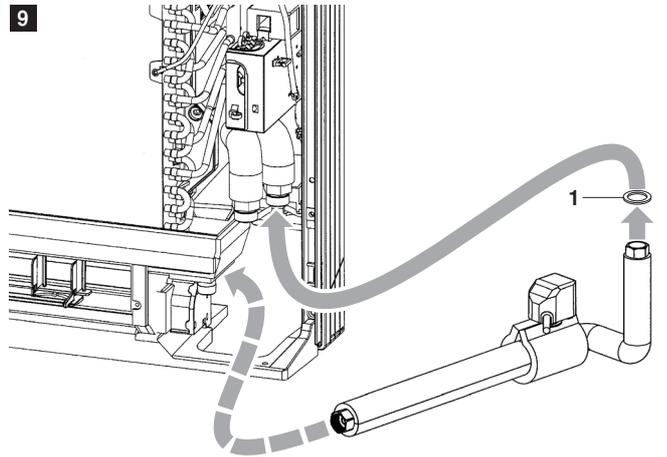
- 1 Thermal insulation



- 1 Insulation material for 2-way valve
- 2 Clamps

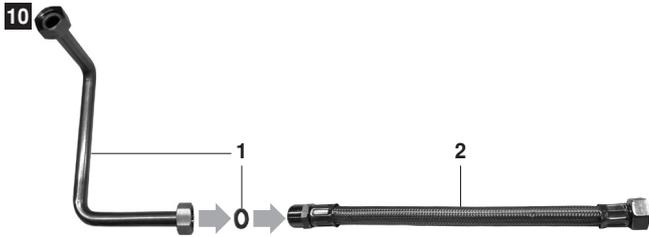


- 1 Insulation material for piping connections

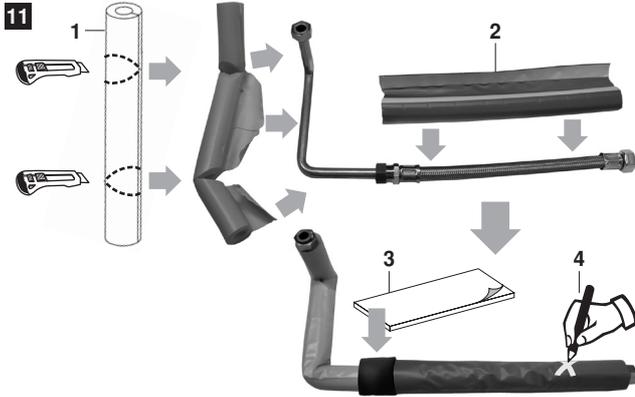


- 1 Part supplied with the heat pump convector

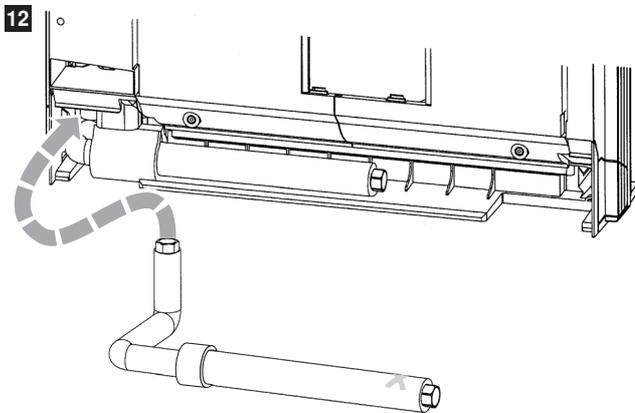
**Water outlet piping**



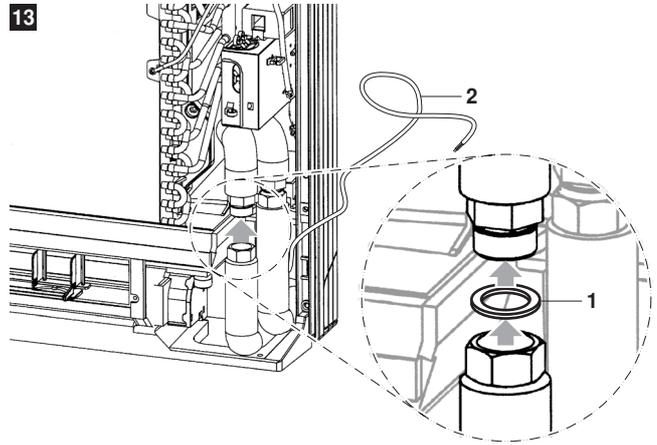
- 1 Parts supplied with the heat pump convector
- 2 Flexible piping (1/2" Female BSP x 1/2" Male BSP)



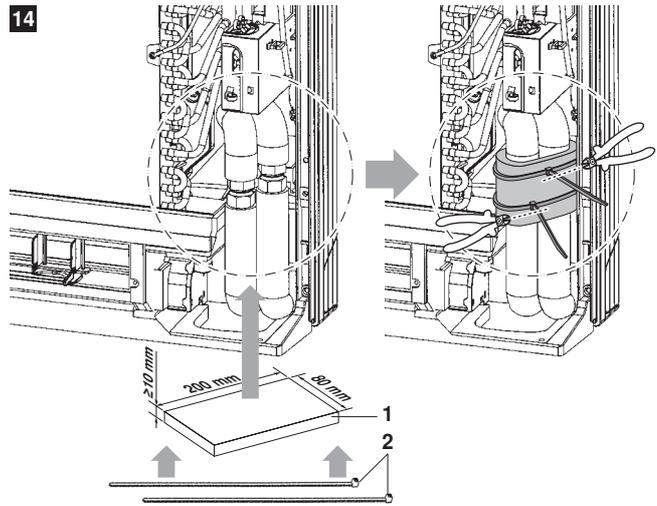
- 1 Part supplied with the heat pump convector
- 2 Thermal insulation
- 3 Insulation material for piping connections
- 4 Add a clearly visible marking on the thermal insulation to ensure distinction of the water outlet piping during further installation of field piping.



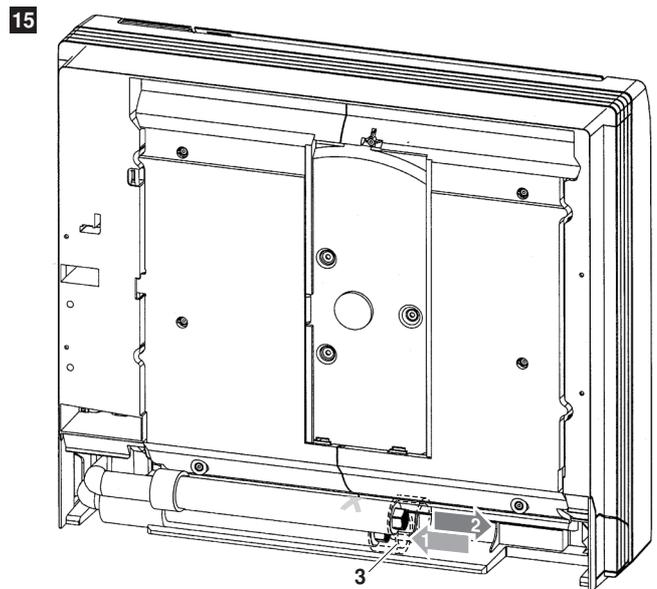
For easy installation, insert the piping from the rear side.



- 1 Part supplied with the heat pump convector
- 2 Wiring of the actuator



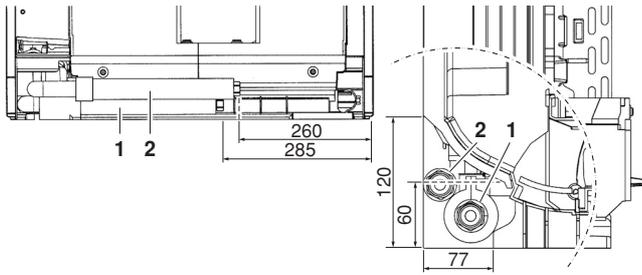
- 1 Insulation material for piping connections (field supply)
- 2 Clamps (field supply)



- 1 Water inlet
- 2 Water outlet
- 3 2x Insulation material for piping connections (≥3x150x40 mm) (field supply)

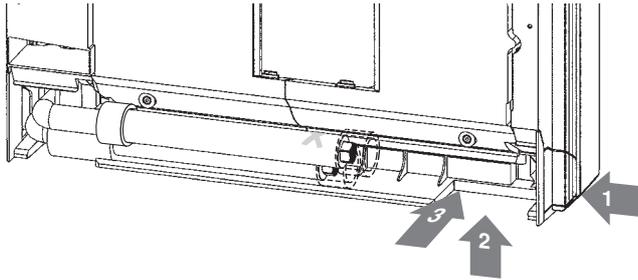
## Connection to field piping

### 1 Location of unit connections (unit of measurement: mm)



- 1 Water inlet
- 2 Water outlet

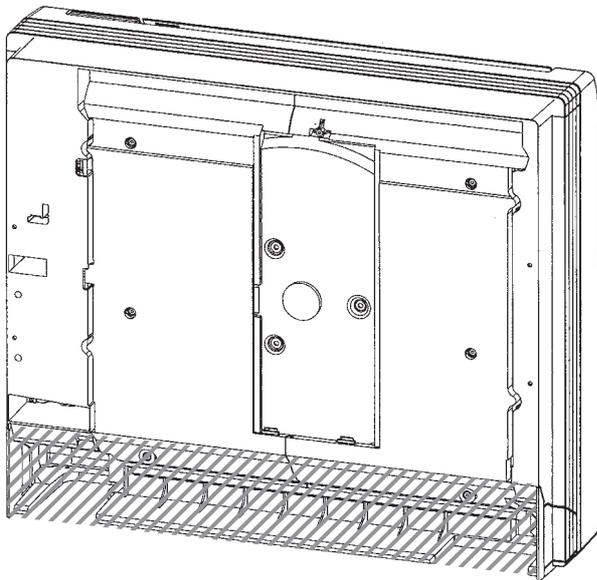
### 2 Possible directions of field piping



- 1 Side
- 2 Bottom
- 3 Rear



- Make sure the field piping is long enough to connect to the flexible piping connected in the unit.
- Make sure the connection of the field piping and the piping connected in the unit completely fits inside the piping guide area of the unit.



Piping guide area

### 3 Connect the field piping to the flexible piping



Make sure to connect the water inlet and water outlet correctly to the field piping. Use the marking on the thermal insulation to distinguish the water outlet piping from the water inlet piping.

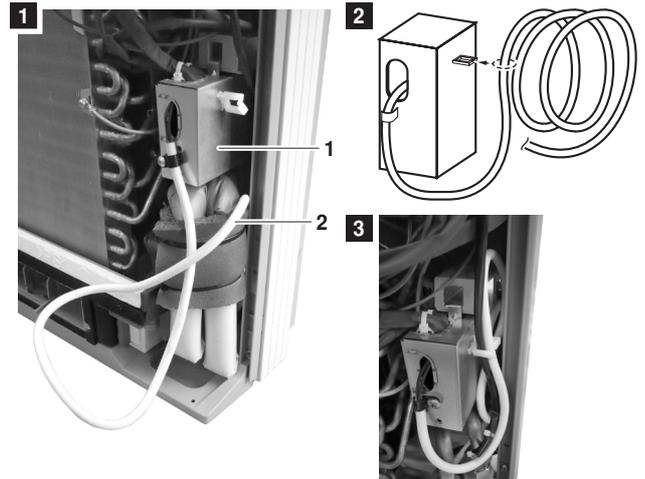
### 4 Push the unit to the wall or hang the unit onto the mounting plate and refer to the installation manual of the heat pump convector on how to continue the unit installation.

## Electrical installation of the 2-way valve

### 1 Connection to the switch box

Refer to the installation manual of the heat pump convector for connecting the 2-way valve to the heat pump convector switch box.

### 2 Placing the 2-way valve wiring inside the heat pump convector



- 1 Heat pump convector switch box
- 2 2-way valve wiring



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