

1 Introduction



The following information replaces the equivalent information on connecting the indoor unit to the heat pump, pipe connections, and transport and storage in the current released installation manuals of the indoor unit and the heat pump.

2 Connect the indoor unit to the heat pump

- ▶ Select the pipe size according to the heat pump manual.

- ▶ Install the filter mesh ball valve/particulate filter that is part of the indoor unit scope of delivery in the return line to the heat pump as close as possible to the outdoor unit.
- ▶ If the filter mesh ball valve/particulate filter cannot be installed close to the outdoor unit, e.g. if an INPA cover is attached, or the distance to the wall is too short, install the filter mesh ball valve/particulate filter directly at the outlet of the pipe inside the building.
- ▶ If the filter mesh ball valve/particulate filter in the return line to the heat pump is not easily accessible for maintenance, a second filter mesh ball valve/particulate filter with integrated magnet and a mesh size of 0.4 – 0.6 mm can be optionally placed in the return line to the indoor unit.
- ▶ Remove the handle at the top of the filter mesh ball valve/particulate filter.
- ▶ Install an additional magnetite/sludge separator in the return line from the heating circuits to the indoor unit.

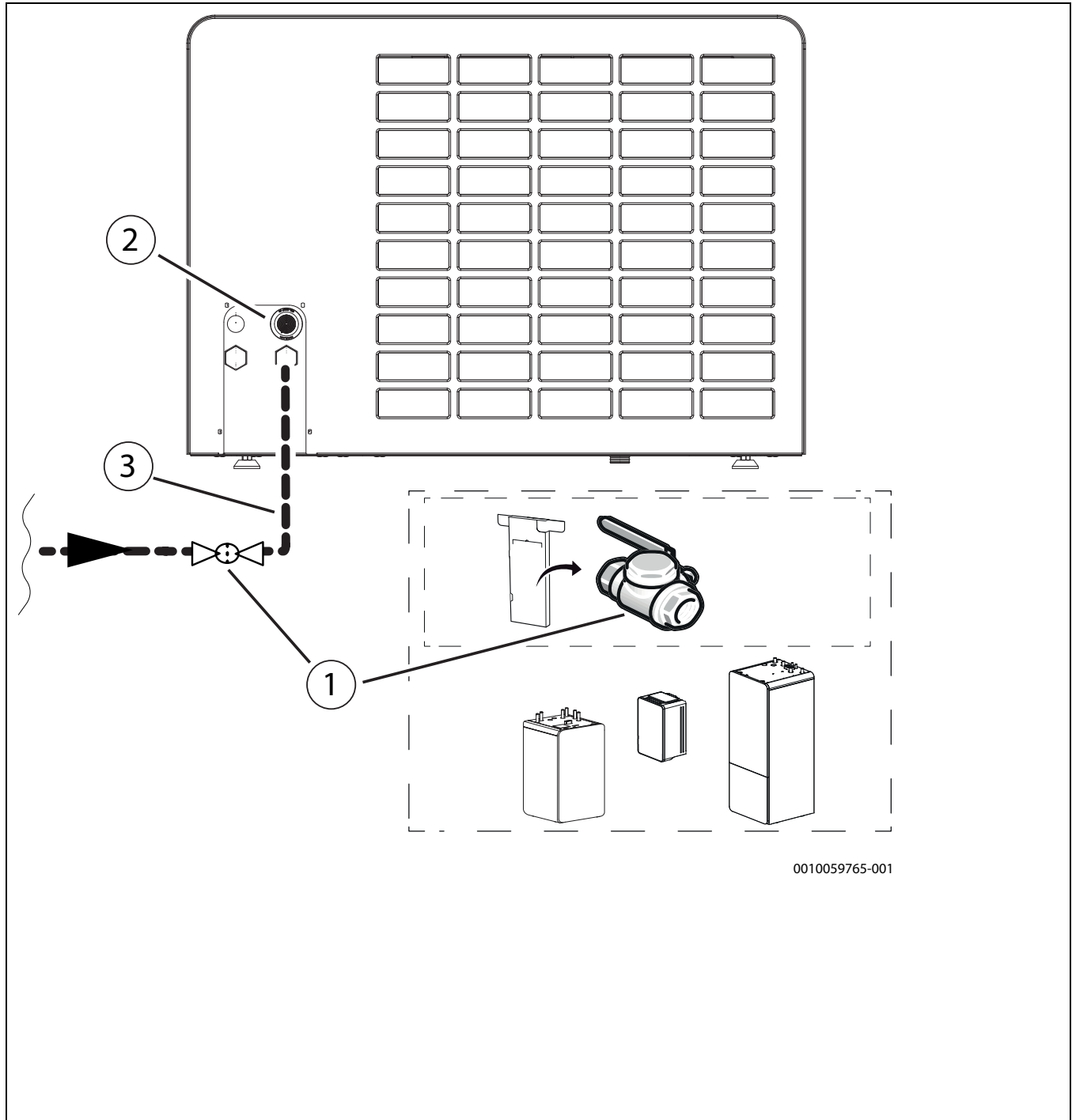


Fig. 1 Connection of the indoor unit to the heat pump

- [1] Filter mesh ball valve/particulate filter
- [2] Inlet of the return line
- [3] Return line to the heat pump



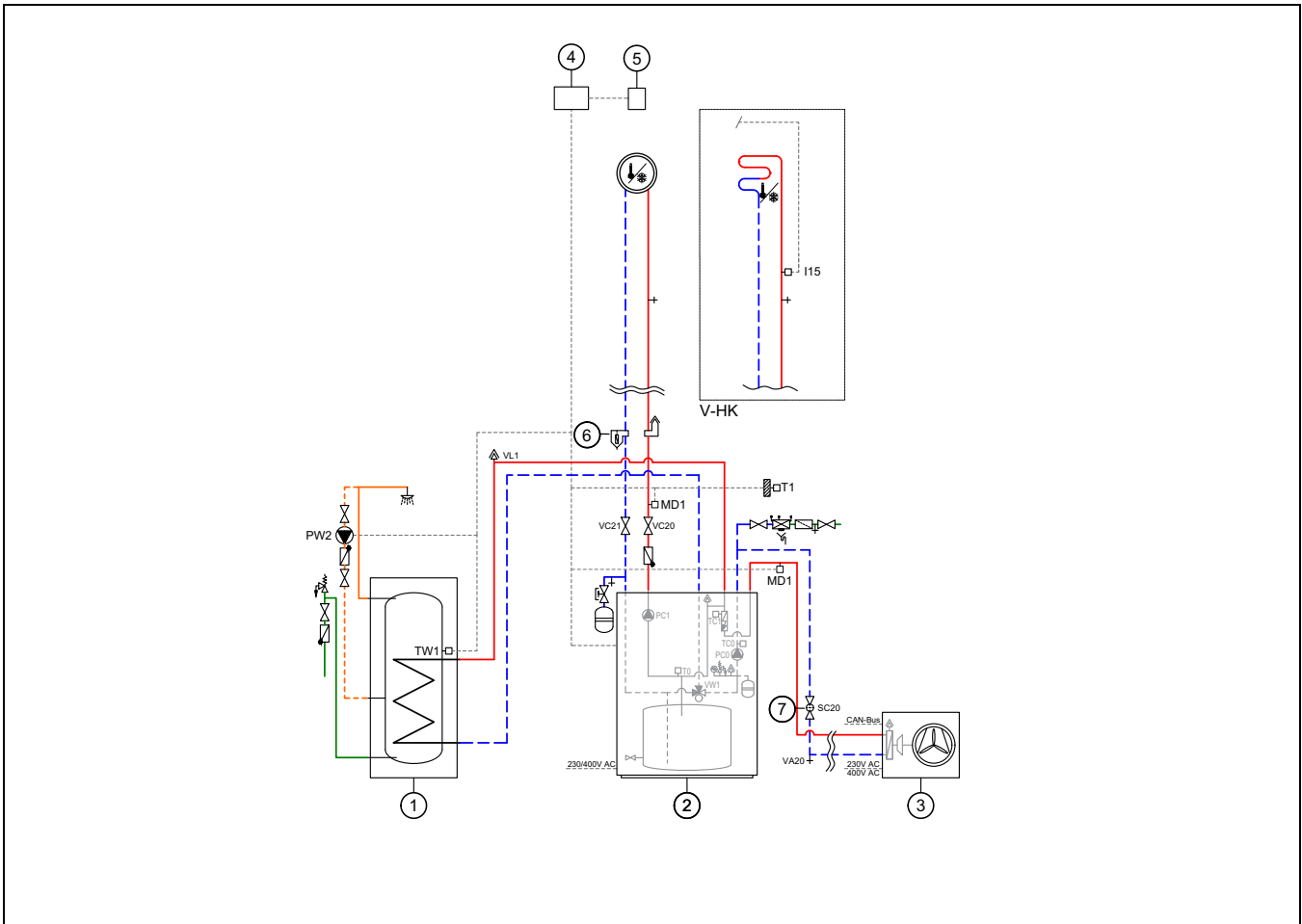


Fig. 2 Positioning of filter mesh ball valve/particulate filter and magnetite/sludge separator in hydraulics

- [1] Hot water tank
- [2] Indoor unit
- [3] Outdoor unit
- [4] Control unit
- [5] Remote control
- [6] Magnetite/sludge separator
- [7] Filter mesh ball valve/particulate filter

3 Pipe connections, general

NOTICE

Residue in the pipework can damage the system!

Solids, metal/plastic filings, flux and thread tape residue and similar material can get stuck in pumps, valves and heat exchangers.

- Keep debris from entering the pipework.
- Do not leave pipe parts and connections directly on the ground.
- When deburring, make sure that no residue remains in the pipe.
- **Before connecting the heat pump and indoor unit, flush the pipe system to remove any debris.**

NOTICE

Material damage due to frost and UV radiation!

In case of a power outage the water in the pipes may freeze. The insulation may become brittle due to UV radiation and crack after some time.

- Use insulation with a thickness of at least 19 mm for pipework and connections outdoors.
- Install drain valves to be able to drain water from the pipes leading to and from the heat pump. Secure the associated shut-offs against accidental closing or, alternatively, equip them with safety valves for each isolatable area.
- Use UV and moisture-resistant insulation.



Insulation/gaskets.

- All heat-bearing lines must be fitted with suitable heat insulation in accordance with applicable standards.
- In cooling mode, all connections and lines must be insulated according to applicable standards to prevent condensation.
- Insulate the wall insertion.



Dimension the pipes according to the instructions (→ installation instructions for the indoor unit). This is valid for the pipes between the indoor unit and the outdoor unit only.

- To minimize pressure drop, avoid tight bending radii and additional connecting sleeves in the pipes between the heat pump and the indoor unit.
- Between the indoor unit and the outdoor unit, do not use uncoated steel pipes and pipes made of other materials that are susceptible to rust.
- Pre-insulated PEX or AluPEX pipes, stainless steel pipes, and copper pipes are recommended for all connections between the heat pump and the indoor unit. They make installation easier and prevent gaps in the insulation. PEX or AluPEX pipes also dampen vibrations and insulate against noise transfer to the heating system.
- Use only material (pipes and connections) from the same PEX supplier to avoid leakage.

4 Transport and storage



DANGER

Danger to life due to fire!

The product contains the flammable refrigerant R290. If a leak occurs, the refrigerant may mix with air to form a flammable gas. There is a risk of fire and explosion.

- The product must be stored in a well-ventilated room without continuous sources of ignition (for example, an open flame, a wall-mounted conventional gas boiler or an electric heater).

The heat pump must always be transported and stored in an upright position. However, the heat pump may be temporarily tilted $\leq 45^\circ$, but not laid flat.

The heat pump cannot be stored in temperatures below -30°C or above $+60^\circ\text{C}$.

The heat pump must be stored so that it is not subject to mechanical damage.

Improper transport may damage the appliance. Do not operate the appliance in case of transport damages.

Use the delivered straps when transporting the heat pump without the packaging. Remove the straps after the heat pump has been placed at the mounting foundation.



WARNING

Danger of injury!

The included disposable straps are not suitable for transporting the heat pump using a crane. The included wooden parts and metal brackets are not suitable for transporting the heat pump using a crane.

- Check that the straps are not damaged before transport.
- Do not reuse the disposable straps.
- Use lifting equipment suitable for transporting the heat pump with the help of a crane.

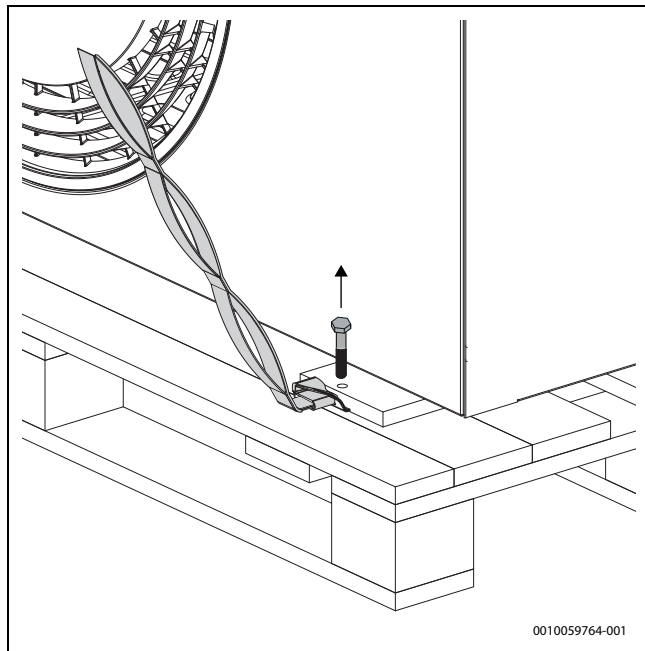


Fig. 3 Attach the straps and remove the screws



CAUTION

Risk of damage and injury!

The metal brackets and the wooden parts are not firmly attached to the heat pump, there is thus a risk that it can slide while carrying. Tilting the heat pump during transport with straps leads to unsafe handling and may cause injuries.

- Be at least four persons while carrying the heat pump.
- Observe that the heat pump is heavier on the compressor side.
- Keep the heat pump in an upright position while carrying it with straps.

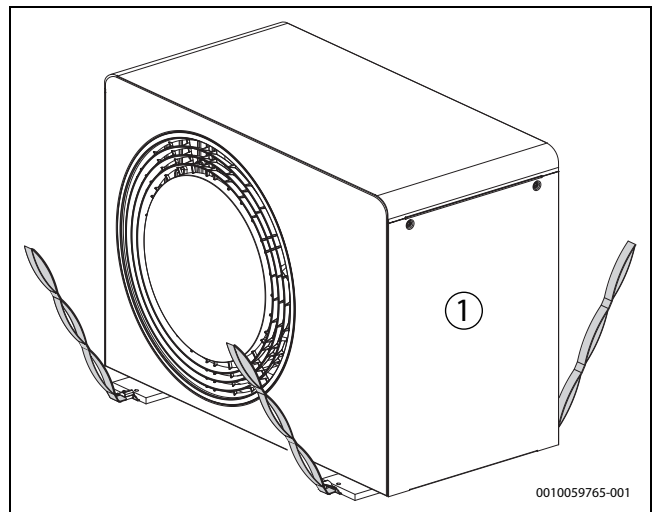


Fig. 4 Use the straps when transporting the heat pump without packaging

[1] Compressor side

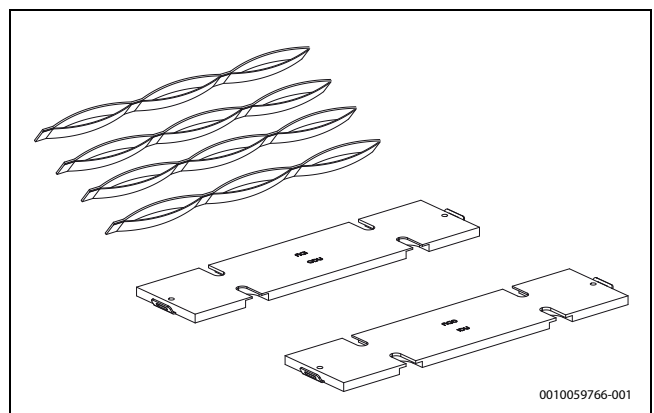


Fig. 5 Wooden parts and straps



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