



COIL CONNECTIONS

DANGER

Coils may contain extremely hot water. Care must be taken before pumping water into the system and during air removal

Depending on the project selection, the air handling unit may have water heating and / or water cooling coil.

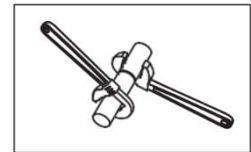
The water inlet and outlet lines of the heater and cooler are labeled in such a way that the water inlet is on the air outlet side. The assembly should be made as per these marks. Incorrect connection causes loss of capacity in the heat exchanger.



- The coil should be carefully unpacked and cleaned if necessary.
- Before installation, caps and/or other protectors on the pipe nozzle must be removed. After this process, the product should not be exposed to open air to prevent water ingress into the pipe, as this may cause oxidation or freezing explosion.
- Inlet and outlet connections should not be fixed in a way not to allow expansion, appropriate expansion opportunities should be allowed to prevent damages caused by thermal expansion.
- When the coil is empty and cold, the hot fluid should not be suddenly given to the coil.
- During filling, the vent nozzle of the coil should be opened and ensured that the fluid is filled into the coil.
- After that, the air relief valve should be closed and the coil should be brought to operating temperature gradually.
- The coil should be pressurized gradually and watch out for leaks or other problems. At the first sign of such problems, the filling process should be stopped immediately and the unit turned off.
- The system installer is responsible for the execution of the installation process and safety precautions in accordance with current, valid standards and instructions.
- Assembly and installation should only be made by experts in one's field.
- Care should be taken not to damage the pipes and connections during the installation of the coils.
- The mounting position of the heat exchanger should be in accordance with its design.

ATTENTION

While tightening the coil connections, it must be tightened by making contra, since there is a risk of rotation/torsion of the inner part of the pipe. Torsions that will occur if it is not tightened by making contra may make the coil unusable! JAK-KA is not responsible for any damage that may occur as a result of non-contra connections!





All pipes of installation and coil connection must be insulated.

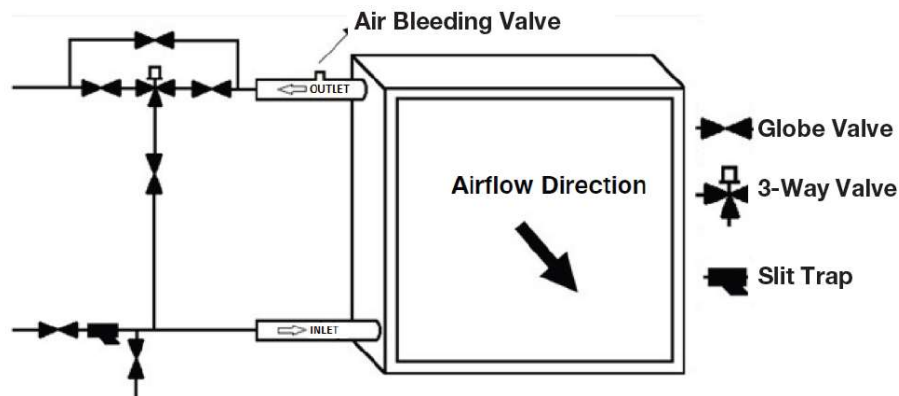
ATTENTION ⚠ A particle filter must be used when pumping water into the installation. In case of pumping water without this filter, blockages may occur in the coil.

ATTENTION ⚠ Since the coils that contain water are at risk of freezing during the winter months, precautions must be taken. Even if the water is drained, it may not be enough just water discharge, as some water may remain in the heating and cooling coils. Based on this;

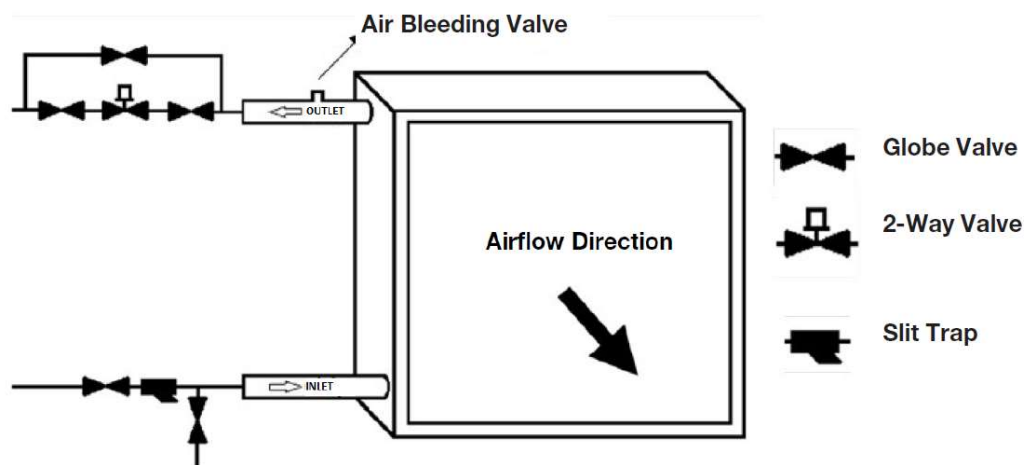
- The amount of antifreeze (glycol) recommended in the mechanical installation calculations can be added to the system,
- Circulation pumps can be operated continuously,
- It can be ensured that the water is completely drained.

ATTENTION ⚠ The weight of the supply water installation pipes must be carried in such a way that they do not affect the pipes of coils. Otherwise, leakages may occur at the coil pipe connections.

3-Way Valve Connection



2-Way Valve Connection





The refrigerant inlet and outlet lines of the direct expansion coil are labelled on the unit, it is important to pay attention to these labels during assembly.

Connection of DX coil with AHUKIT and VRF outdoor unit should be made by JAK-KA technical service or authorized personel.