

We advise to first carefully read this addendum and only then to consult delivered manuals and proceed with installation of the unit.

For this floor standing low temperature heat pump EHVH04CB3VF or EHVH08CB3VF, instructions in the manuals delivered with the unit are these of the EHVH04CB3V or EHVH08CB3V.

All delivered manuals as well as the Installer reference guide and User reference guide referred to in delivered manuals apply, but there are some exceptions and attention points for the "F"-version units.

These exceptions and attention points are described in this addendum.

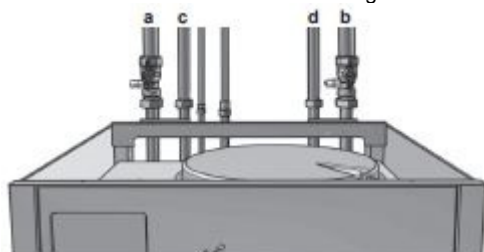
Differences mainly relate to

- 1) water piping and refrigerant piping connections (see pictures in this addendum);
- 2) the built-in 12 l flow-through vessel under the domestic hot water tank (which impacts on the minimum water volume of the installation);
- 3) lay-out of the internal piping;
- 4) impact of these differences on technical specification drawings. The correct versions are therefore added to this addendum.

There is no difference for everything related to the user interface, the software or the operation of the unit. All information in the delivered manual related hereto is therefore correct.

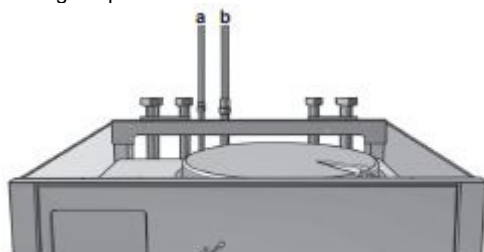
1. Water piping connections and refrigerant piping connections

The following picture illustrates the water piping connections of your unit (chapter "To connect the water piping"). Analogous pictures in the EHVH04/08CB3V manual are to be neglected.



- a Space heating/cooling water out
- b Space heating/cooling water in
- c Domestic hot water out
- d Domestic cold water in (cold water supply)

The following picture illustrates the refrigerant piping connections of your unit (chapter "To connect the refrigerant piping to the indoor unit"). Analogous pictures in the EHVH04/08CB3V manual are to be neglected as well.



- a Refrigerant liquid connection
- b Refrigerant gas connection

2. Minimum water volume (chapter "To check the water volume and flow rate")

ONLY applicable for EHVH04+08S18CB3VF

The system does not require a minimum water volume. Since an extra flow-through vessel is built into the unit, the total water volume in the installation can be 0 l. It is however required that when all heat emitters are closed, the user interface displays a minimum water flow of 15 l/min.

INFORMATION

Critical processes or rooms with a high heat load may require extra water.

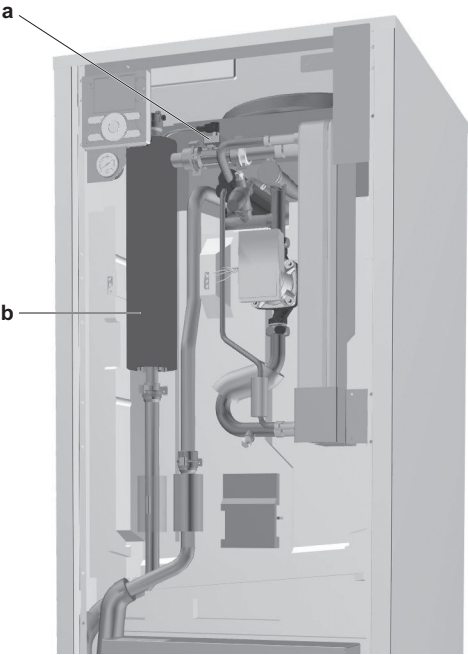
NOTICE

When circulation in each space heating loop is controlled by remote controlled valves, it is important that a minimum water flow of **15 l/min** is guaranteed, even if all valves are closed.



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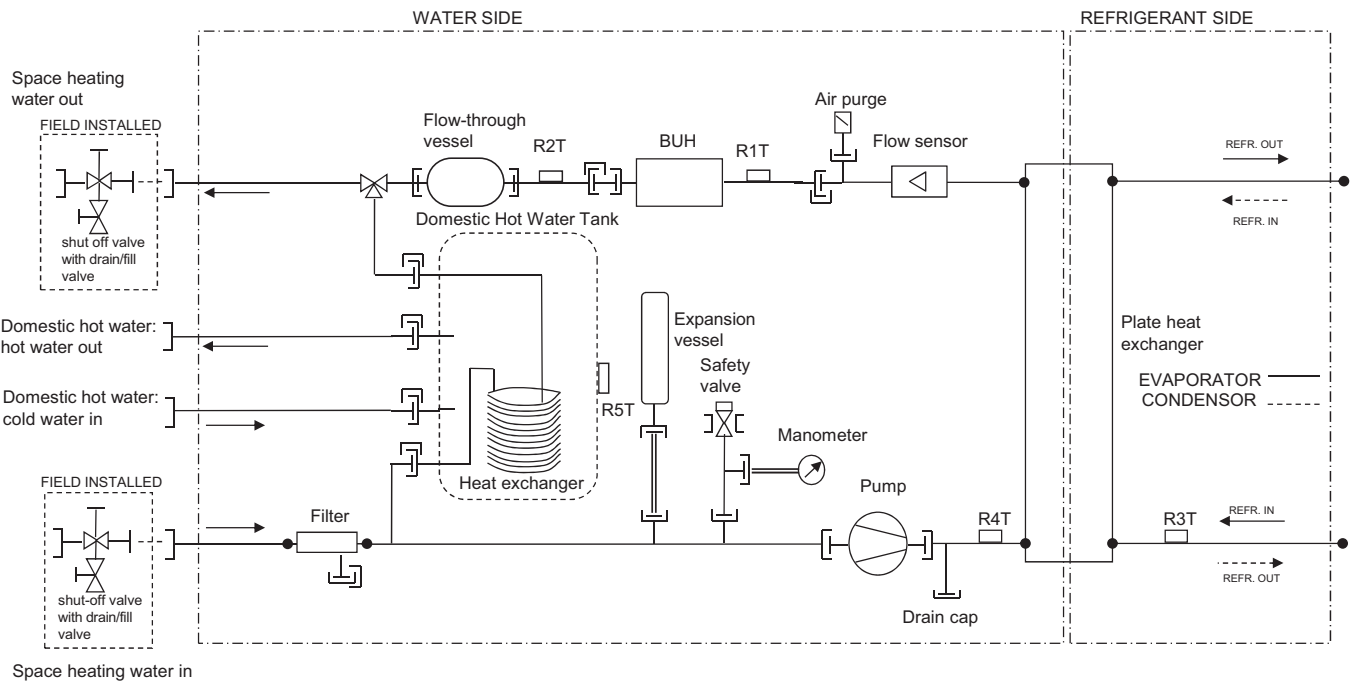
3. Lay-out of internal piping



- a Flow sensor
- b Backup heater

4. Impact of these differences on technical specification drawings (chapter “Technical data” of the Installer reference guide referred to in delivered manuals)

Piping diagram: Indoor unit

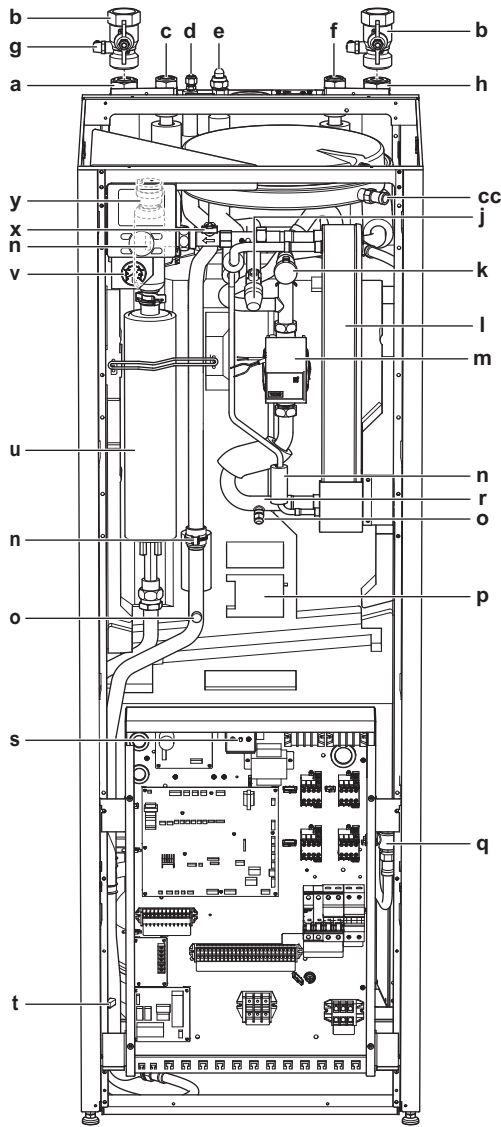


LEGEND:

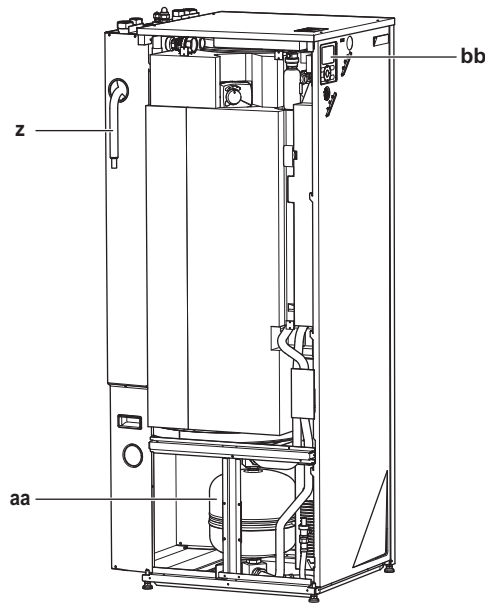
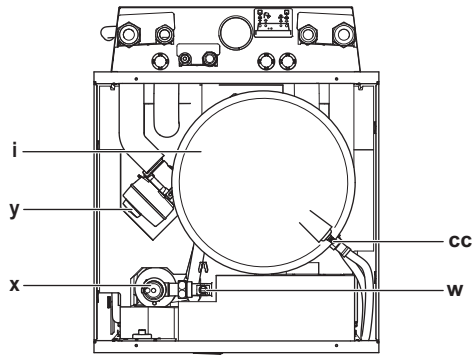
	CHECK VALVE		SCREW CONNECTION
	FLARE CONNECTION		QUICK COUPLING
	SPINNED PIPE		FLANGE CONNECTION
	PINCHED PIPE		BRAZED CONNECTION

R5T	Tank thermistor
R4T	Inlet water thermistor
R3T	Refrigerant liquid side thermistor
R2T	Outlet water backup heater thermistor
R1T	Outlet water heat exchanger thermistor
THERMISTOR	DESCRIPTION

Components: Indoor unit



- a** Space heating cooling out
- b** Shut-off valves (accessory)
Allows isolation of the indoor unit water circuit side from the residential water circuit side.
- c** Domestic hot water out
- d** Refrigerant liquid connection R410A
- e** Refrigerant gas connection R410A
- f** Domestic hot water in
- g** Fill valve (accessory)
- h** Space heating cooling in
- i** Expansion vessel (10 l)
- j** Pressure relief valve
Prevents excessive water pressure in the water circuit by opening at 3 bar.
- k** Water filter
Removes dirt from the water to prevent damage to the pump or blockage of the heat exchanger.
- l** Heat exchanger
- m** Water pump
Circulates the water in the water circuit.
- n** Thermistors
Determines the water and refrigerant temperature at various points in the circuit.
- o** Drain caps
- p** Tank thermistors
- q** Domestic hot water tank drain valve
Empties the full tank.
- r** Switch box
Contains the main electronic and electrical parts of the indoor unit.

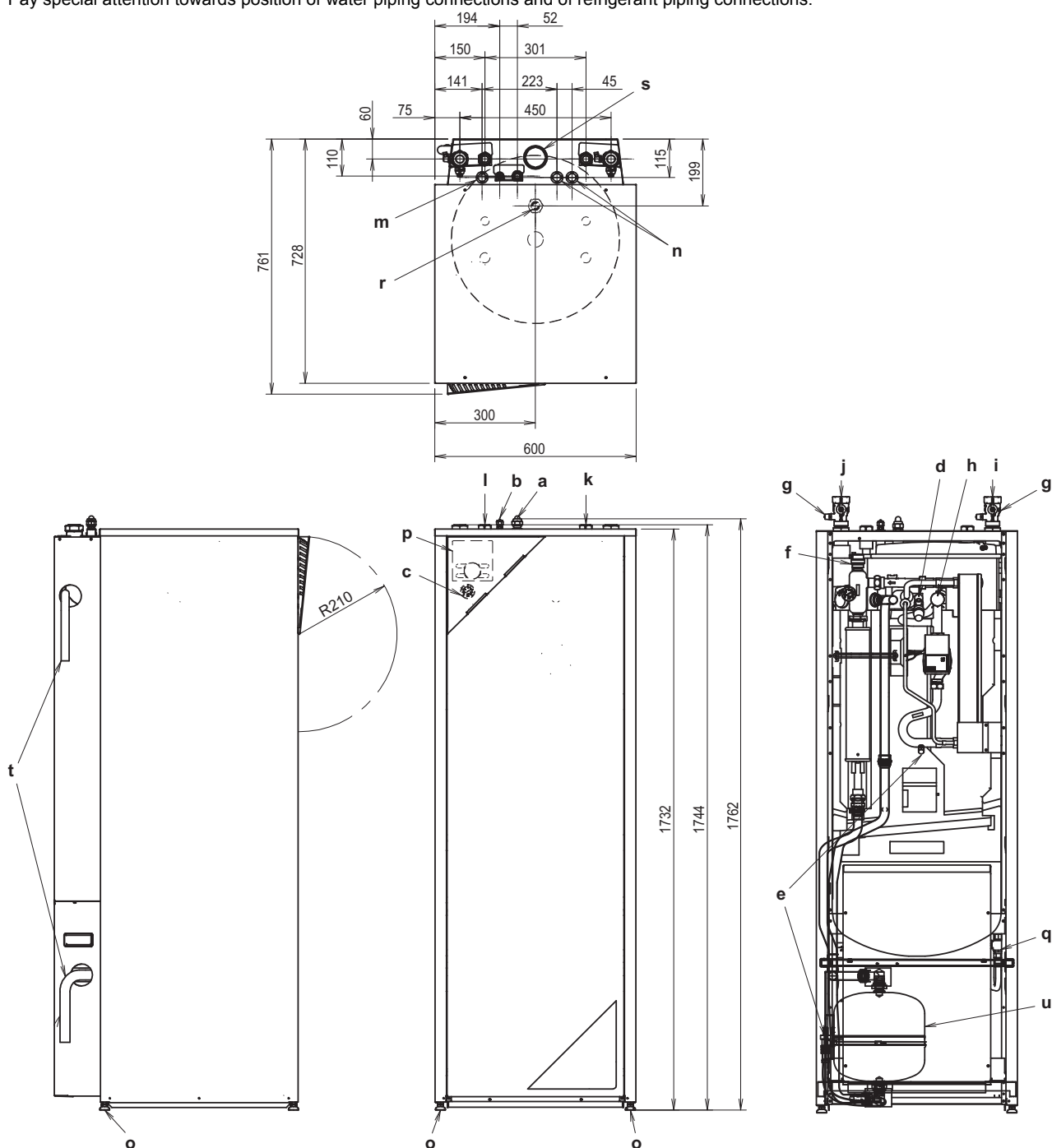


- s** Backup heater thermal protector
The protector activates when the temperature of the backup heater becomes too high.
- u** Backup heater
Provides additional heating in case of cold outdoor temperatures. Also serves as backup in case of malfunctioning of the outdoor unit.
- v** Manometer
Allows readout of the water pressure in the water circuit.
- w** Flow sensor
Gives feedback to the interface about the actual flow. Based on this information (and other), the interface adjusts the pump speed.
- x** Air purge valve
Remaining air in the water circuit will be automatically removed via the air purge valve.
- y** 3-way valve
Controls whether the water is used for space heating, or the domestic hot water tank.
- z** User interface (accessory)
- aa** Flow-through vessel
- bb** Drain flexible pressure relief valve
- cc** Air valve

Dimensions and service space: Indoor unit

Dimensions

Pay special attention towards position of water piping connections and of refrigerant piping connections.



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- a Gas pipe connection Ø15.9 mm
- b Liquid pipe connection Ø6.35 mm
- c Pressure gauge
- d Safety valve
- e Drain valve water circuit
- f Air purge
- g Stop valve with fill valve (included accessory)
- h Water filter
- i Water IN connection 1-1/4" female British standard pipe thread
- j Water OUT connection 1-1/4" female British standard pipe thread
- k Tank IN connection 1" female British standard pipe thread
- l Tank OUT connection 1" female British standard pipe thread

- m Control wiring intake (Ø24 mm)
- n Power supply wiring intake (Ø24 mm)
- o Levelling feet
- p User interface (included accessory)
- q Drain valve tank circuit
- r Recirculation connection G 1/2" female
- s Hole for recirculation piping or option wiring (Ø62 mm)
- t Drain outlet (unit+safety valve)
- u Flow-through vessel (12 l)

Note 1: Typical field installation is according to local and national regulations.

Service space

Service space of EHVH04CB3VF or EHVH08CB3VF units is same as service space of EHVH04CB3V and EHVH08CB3V units, and therefore not considered in this addendum.