

Heaty Complete Advanced

Automated replenishments

Heaty Complete Advanced

Heaty Complete Advanced XL

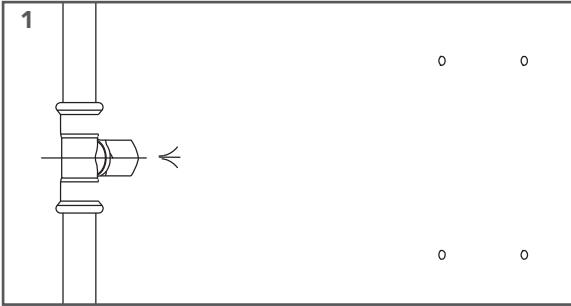


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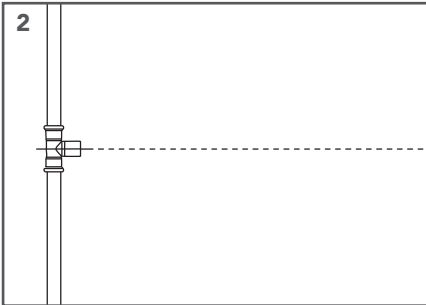
1 Installation and operation

Installation

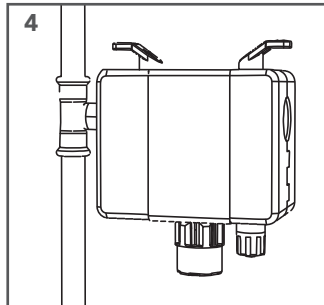
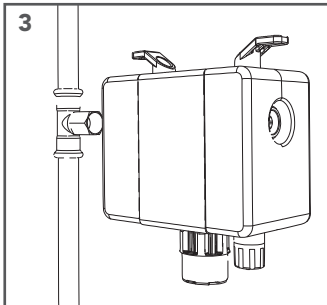
Please assemble the Heaty Complete Advanced according to the following scheme.



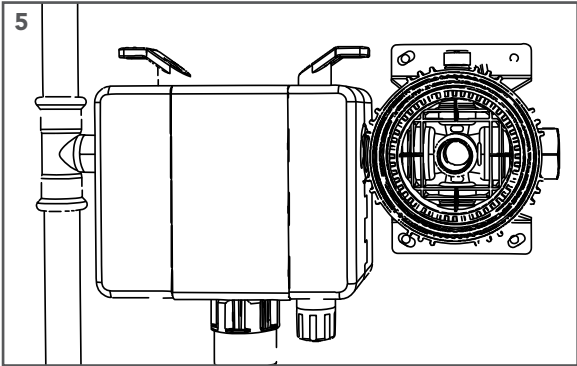
1
Flush the connection line
free from dirt particles



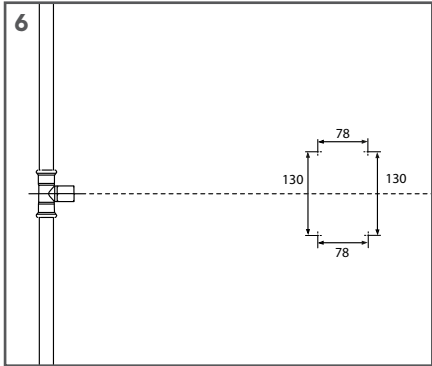
2
Transfer the centre of
the connection to the
wall



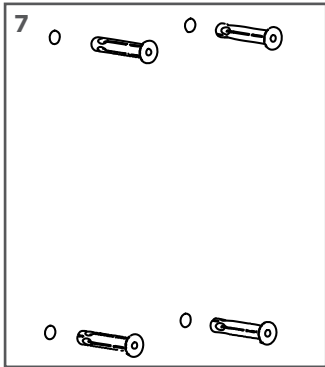
3 + 4
Now mount the
System separator



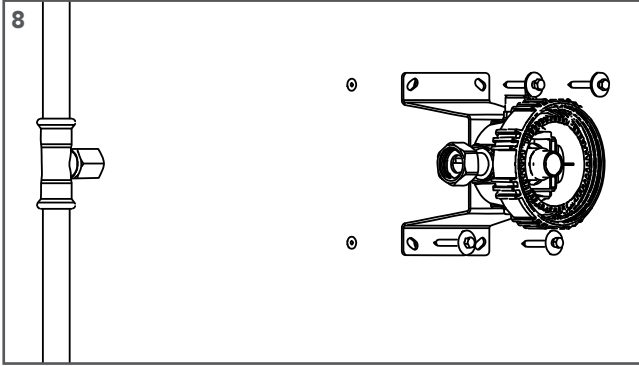
5
Screw the connection flange to the system separator and mark out the drill holes



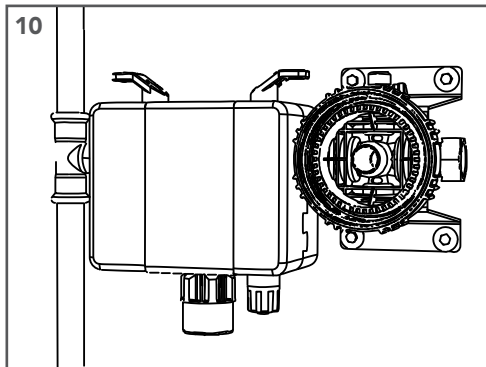
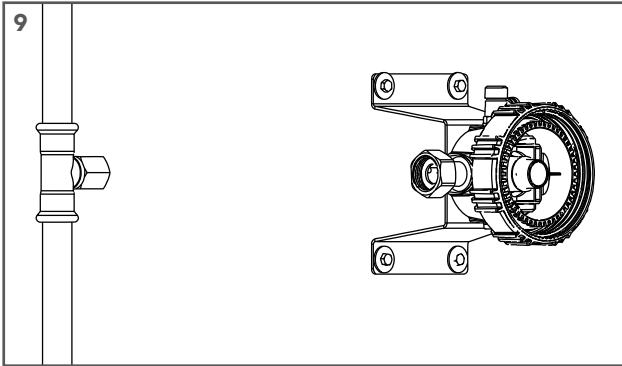
6
Hole pattern

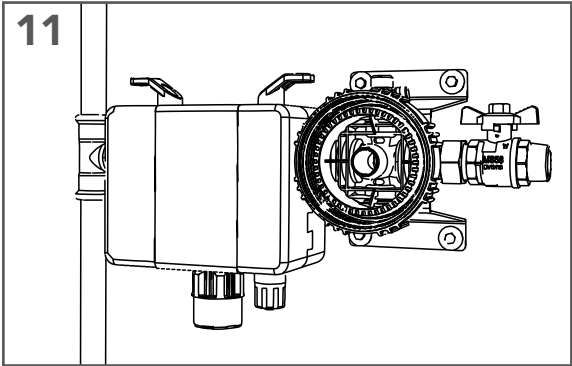


7
Insert the dowels

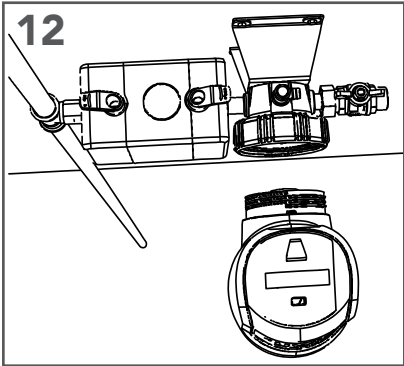


8 - 10
Screw the connection
flange with the screws
supplied



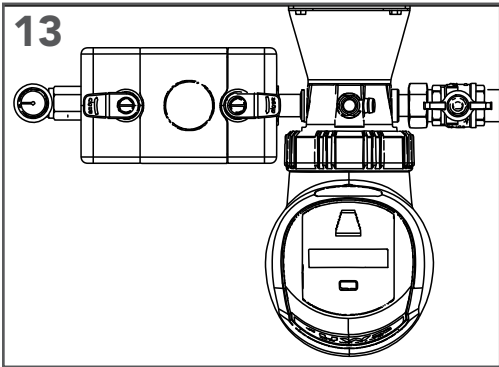


11
Screw the Complete Advanced to the connection flange



12
Screw the ball valve onto the outlet side of the Complete Advanced

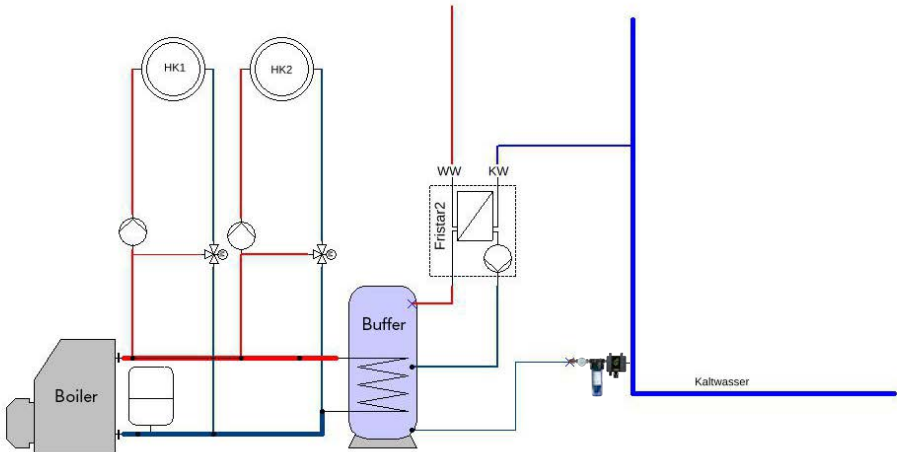
Boiler



13
Ready.

- a. Please pay attention to the flow direction of all components.
- b. The vent is fitted at the top of the connection flange. The blind plug must be fitted on the opposite side.
- c. **Note: The vent screws must always be closed again after any opening, otherwise uncontrolled water leakage may occur! No tools are required to operate the air vent screw.**

Installation diagram



ATTENTION

If an automatic water make-up system, pressure maintenance systems or systems that can generate pressure surges are installed in the system, the UWS Complete Advanced must not be used.



NOTE

Get an overview of your installed UWS make-up systems

You will find a QR code on the Heaty Complete Advanced. With this you can easily register your water make-up system and thus always have an overview of all your installed UWS water make-up systems. Simply scan the QR code and you will automatically be directed to the correct website.

2 Cartridge replacement

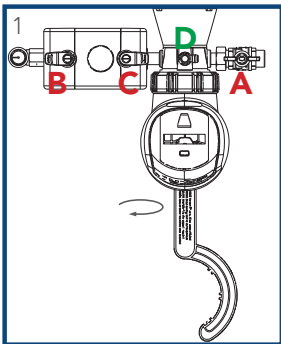
Cartridge replacement Heaty Complete Advanced-series

When should the cartridge be changed?

The cartridge must be changed either when the corresponding display (incl. acoustic signal) appears in the menu or when the indicator resin changes colour (normally as soon as the change in colour has reached the last third).

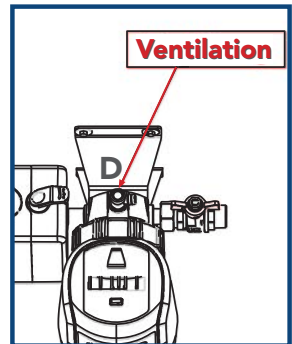
The cartridge must be changed after 2 years at the latest!

This is how easy it is to change the cartridges in the Advanced series



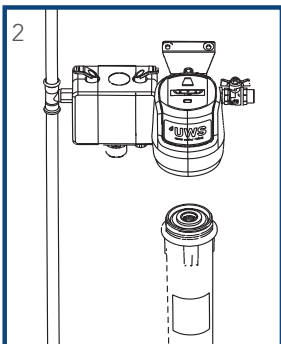
1. Close the inlet (A, B and C) and open the vent (D).

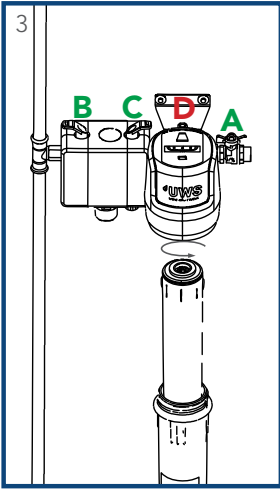
Then turn the key (included in the delivery) on the union nut clockwise.



2. Remove the used cartridge and dispose of it.

Then insert the new cartridge.





3. Close the cartridge container with the key in an anticlockwise direction.

Now you can open taps B and C again and then close vent D again.

Now you can also open the inlet A again.

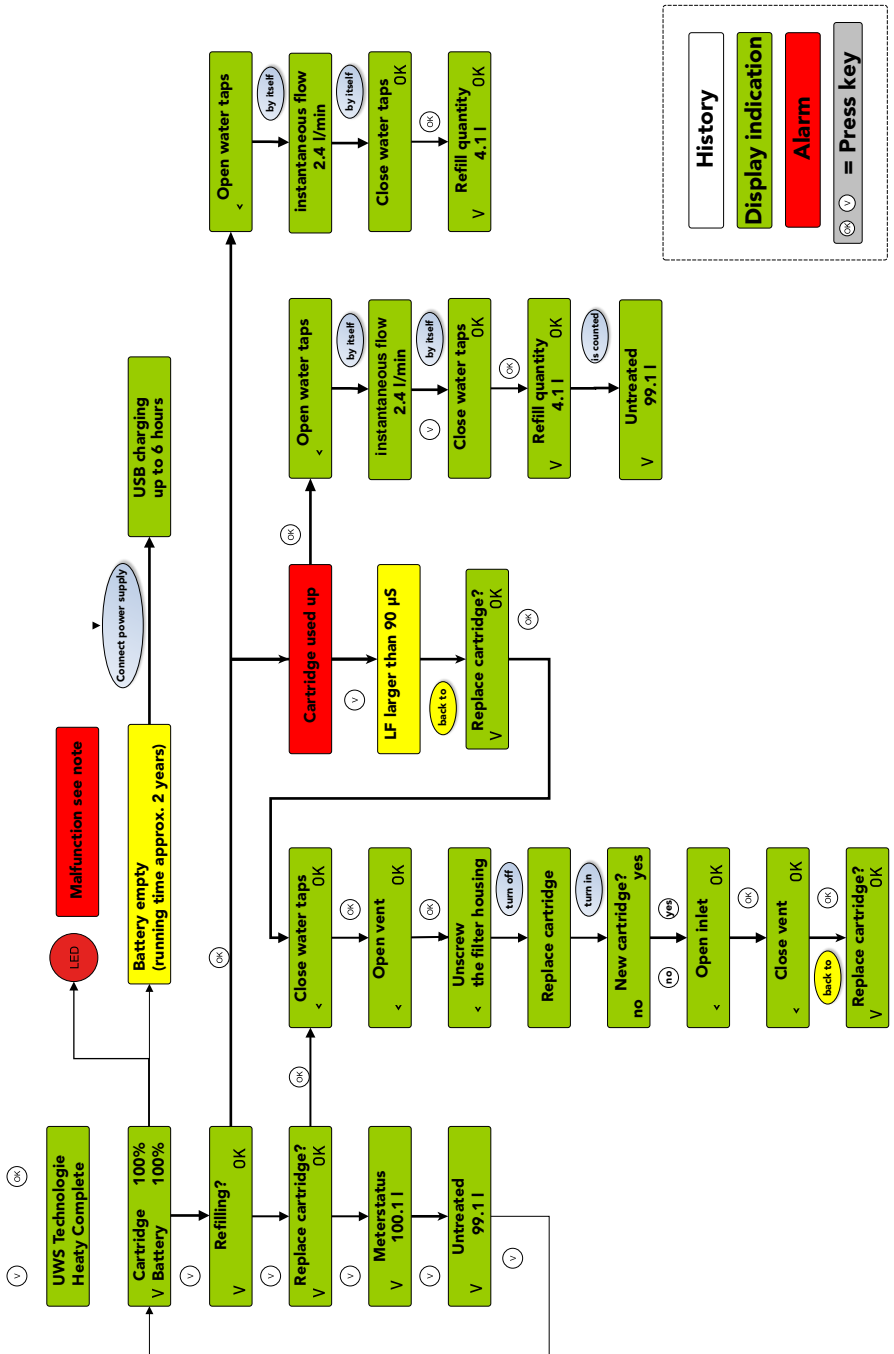


NOTE

Handling mixed bed resin

Observe the following points when handling the mixed bed resin:

- Do not store the mixed bed resin openly as it will lose capacity.
 - Use the outer packaging of the refill pack to dispose of the replaced mixed bed resin.
 - Change the mixed bed resin over a drain so that the water separated from the replaced mixed bed resin can drain off.
 - Wear appropriate personal protective equipment (goggles, gloves).
-



Supplementary notes on the menu:

OK = Execute

V = next menu item



NOTE

If the LED lights up red (also indicated by an acoustic signal tone), the following errors/measures are required:

- Sensor defective, repair by UWS (at cost, if necessary).
 - Battery charge below 15 %, please connect mains adapter until fully charged
 - Water temperature is higher than 40°C, temperature must be reduced
-

The menu allows you to easily check the resin capacity, battery charge level and the amount of treated or untreated water. You can also control refilling or cartridge replacement here.

Always check the cartridge seal after replacing the cartridge.

Menu item „Refill?“

1. If no message appears when you press „OK“, you can start refilling as described in the menu navigation.
2. If the message „Cartridge used up“ appears, please replace the cartridge.



ATTENTION

If you do not have a spare cartridge at hand, refilling is still possible. However, the refill water will then not be treated in accordance with VDI 2035. You may lose warranty claims or damage the heating system. Therefore, you should only use this in an absolute emergency.

3 Technical data

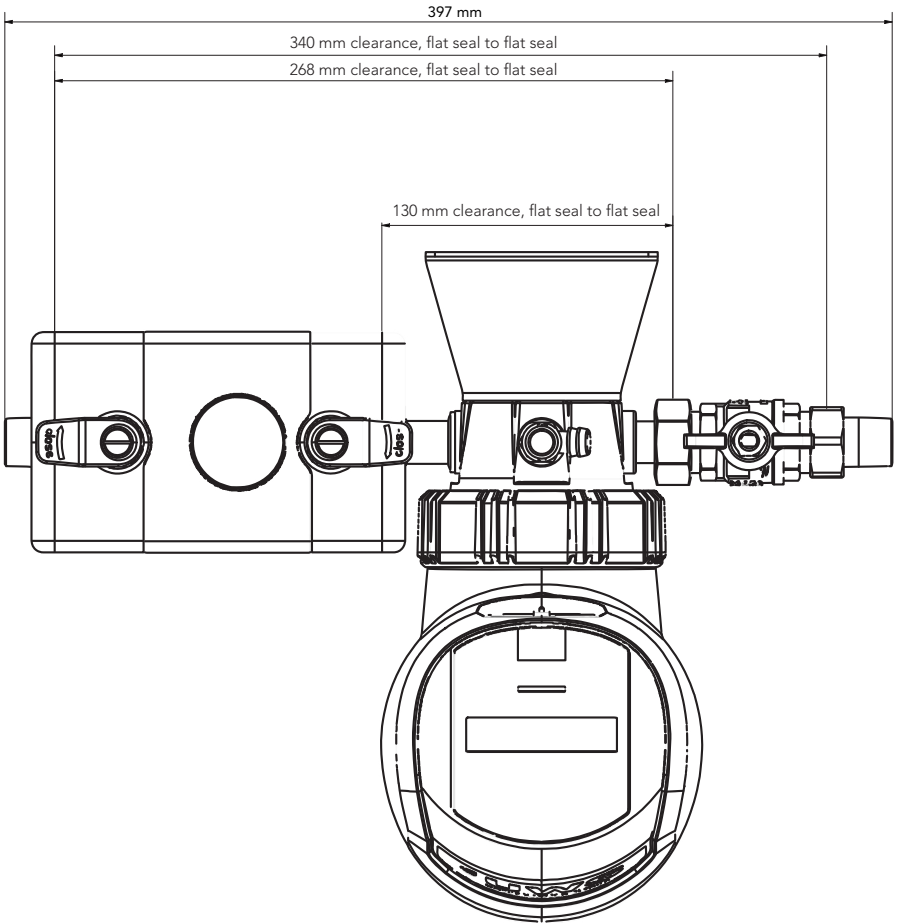
Heaty Complete	Advanced	Advanced XL
item number	100390	100391
connection thread	3/4" male for ÜWM flat sealing	
maximum operating temperature	40 °C	
max. filling capacity*	240 l/h	
maximum operating pressure	6 bar	
Capacitance at 420 µS/cm**	122.5 l	225 l
pressure reducer	adjustable	
Connection electrical	230 V/50 Hz	
installation length	340 mm Flat sealing to flat sealing with Filling combination and shut-off valve	

Heaty Complete	Advanced	Advanced XL
At 1°dH / 2°fH	1,400 l	2,700 l
At 12°dH / 21°fH	122.5 l	225 l
At 20°dH / 36°fH	70 l	135 l

***Note**

The capacity depends on various parameters such as the water temperature, the chemical composition of the water or the flow pressure. For an exact determination, a water analysis of the raw water must be carried out. The values given here always refer to the optimum case and do not represent a binding assurance.

Dimensions



4

Operating instructions filling combination

Range of use

The BA filling combination is used to automate the filling process in hot water heating systems.

The built-in BA system separator according to EN 1717 prevents the heating water from flowing back into the drinking water pipe. In this combination, the direct fixed connection to the heating system is approved according to EN 1717.

The integrated pressure reducer ensures the correct and constant pressure of the system.

Version

The BA filling combination consists of integrated shut-off on the inlet and outlet side, BA system separator to EN 1717, drain funnel, test devices, pressure reducer, dirt trap and pressure gauge. Adjustment range of the pressure reducer between 1 and 5 bar. Screw connections on both sides.

Housing made of pressed brass. Internal parts and drain funnel made of high-quality plastic and NBR.

The BA filling combination includes all the components specified in EN 1717 for connecting the drinking water pipe directly to the heating circuit.

The built-in pressure reducer ensures a constant set outlet pressure so that the heating system is protected against unwanted overpressure during the filling process.

After completion of the filling and venting process, the integrated shut-off should be closed to prevent uncontrolled refilling of the heating system.

Installation

The connection pipe of the Filling combi BA must be designed in such a way that no stagnation occurs.

Before installing the Filling combi BA, the pipeline must be carefully flushed. The fitting must be installed in the pipeline in such a way that the drain funnel points vertically downwards so that the escaping water can run off with a free downward gradient.

An easily accessible installation location simplifies maintenance and inspection. Ensure that the installation location is protected from flooding and frost and is well ventilated. The drain pipe must be provided with sufficient capacity.

In order to ensure a permanent and perfect function, we recommend the installation of a drinking water filter according to EN 13443, part 1 immediately after the water meter.

The maintenance intervals of the BA Plus filling combination must also be observed. For the connection of the funnel to the waste water system, the valid standard EN 12056 must be observed.

Setting Pressure reducer

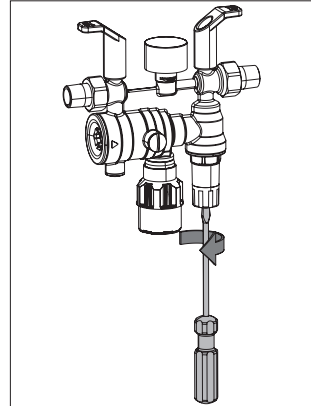


NOTE

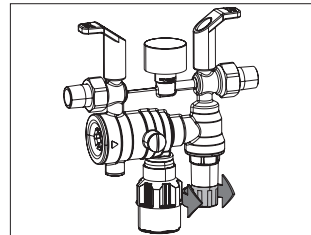
Please note that the pressure reducer of the BA filling combination is factory-set to 1.5 bar. Please remember: The inlet pressure must be at least 1 bar higher than the desired system pressure.

The pressure reducer can be adjusted as follows:

If a lower system pressure than 1.5 bar is desired, loosen the locking screw in the adjusting handle of the pressure reducer and turn it to the initial position in the direction of the arrow minus (-).



After the appropriate initial situation has been reached, open the inlet valve (1) to pressurise the fitting, the outlet side (2) remains closed.

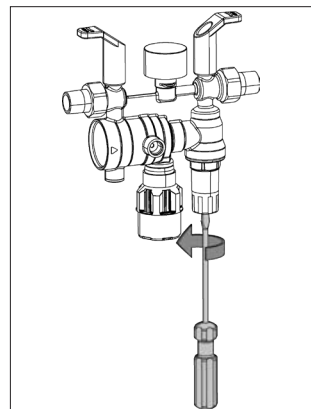


Now turn the adjustment handle towards plus (+) to increase the filling pressure.

Now set the desired system pressure by turning the adjustment handle **SLOWLY** (due to the sensitivity of the manometer) in the direction of plus (+).

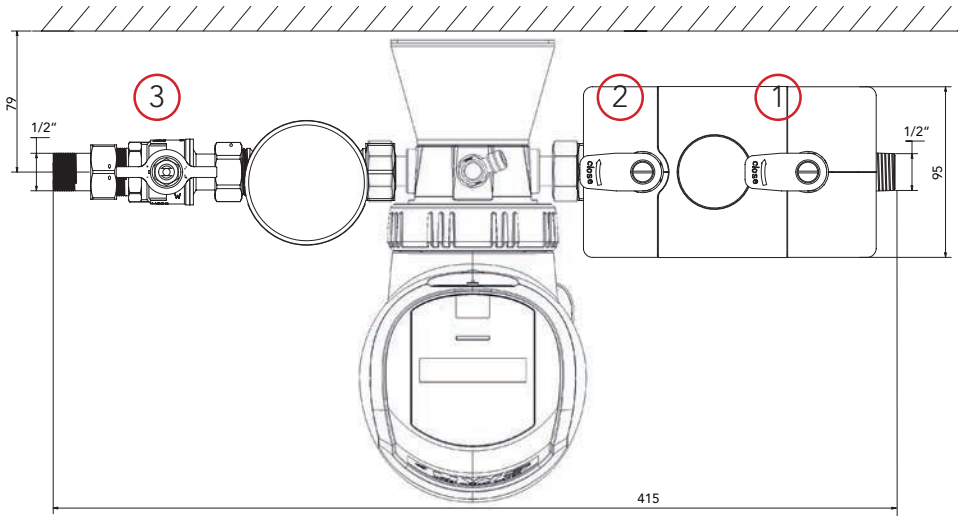
After reaching the desired pressure value, tighten the locking screw again.

Now you can open the outlet valve (2).

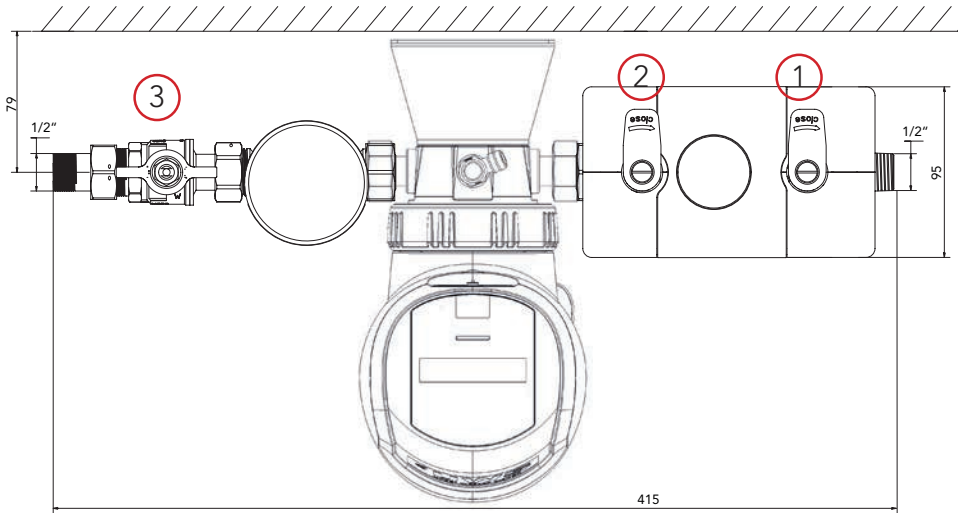


Filling the heater

To start the filling process, both filling combination shut-offs (1 & 2), as well as the shut-off after the water meter (3) must now be opened.



After finishing the automatic filling process, close all shut-offs (1-3) to avoid uncontrolled refilling.





NOTE

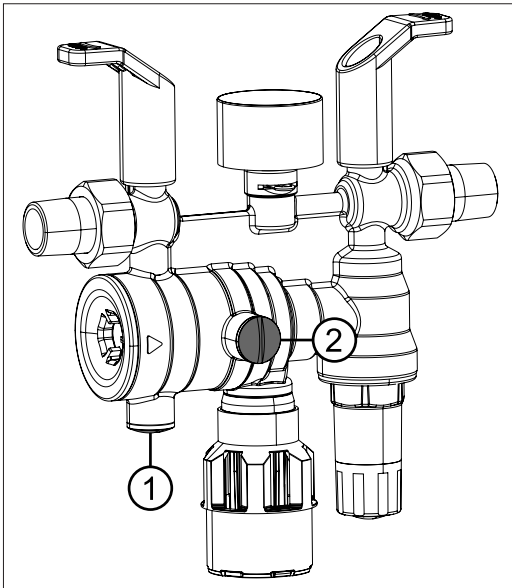
For complete and speedy filling of the heating system, it must be vented during the filling process!

Please note that the last 0.5 bar before reaching the set value may take a longer time.

Checking the system separator

Remove the manostops from the ① inlet and ② intermediate pressure chambers.

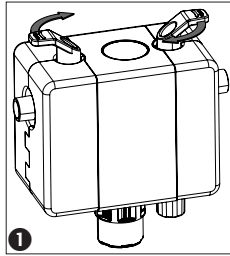
Place the connection pieces of the system separator tester there.
For details, see our „UWS L-BOXX PST“ instructions.



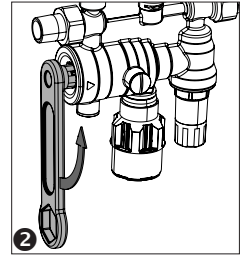
Changing the system separator cartridge

If the system separator cartridge is defective or dirty, it must be replaced or cleaned. The replacement set (system separator cartridge, installation aid, installation spanner, art. no. 300930) must be ordered as an option.

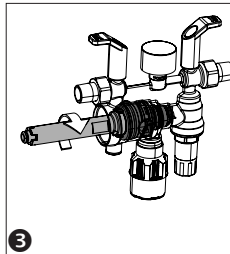
❶ Close both barriers.



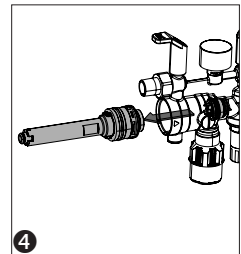
❷ Open the closing plug with the key.



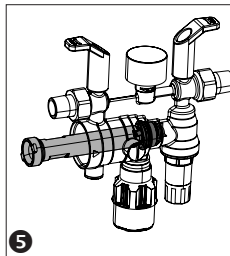
❸ Insert the assembly aid into the system separator cartridge and turn clockwise.



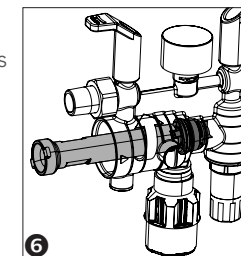
❹ Make sure that the two pins of the assembly spanners engage in the tabs of the cartridge. Pull out the cartridge.



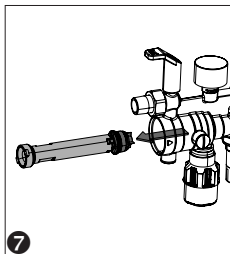
❺ Turn the assembly aid over and place it on the backflow preventer.



❻ Make sure that the recesses of the assembly aid engage in the spigots of the backflow preventer.

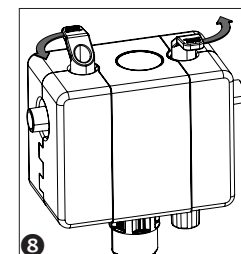


❼ Turn the assembly aid anticlockwise and pull out the backflow preventer.



The installation is done in reverse order.

❽ Open the two barriers again.



Both maintenance and replacement shall be documented.

Malfunctions - Troubleshooting

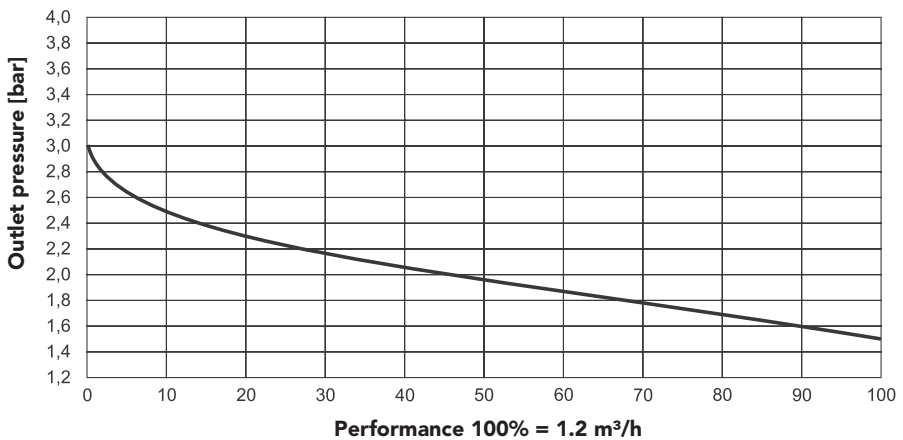
Defect	Cause	Remedy
The drain valve is open for no reason	Dirt on drain valve or back-flow preventer (inlet side)	Remove the cartridge insert and clean or replace it. (*
The drain valve does not close	Discharge valve contamination	Remove the cartridge insert and clean or replace it. (*
The flow is low or non-existent	The refill combination has not been mounted in the direction of flow	Assemble the refill combination in the direction of flow (see arrow directions).
	The shut-offs are not sufficiently open	Open the shut-offs completely
	The pressure reducer is not set to the desired downstream pressure.	Adjust the back pressure
Higher system pressure desired	The inlet pressure must be at least 1 bar higher than the desired system pressure.	Install a pressure boost.
	Please note that the last 0.5 bar before reaching the set value may take a longer time.	Wait until the pressure has automatically adjusted to the desired value.
Fluctuations of the set back pressure	Dirt or damage to the nozzle or sealing disc on the valve insert.	Replace the valve insert (pressure reducer cartridge)
Water leaks from the adjustment handle	The diaphragm on the valve insert of the pressure reducer is defective.	Replace the valve insert (pressure reducer cartridge)

*Cartridge inserts older than 1 year are not subject to complaint, as these are wearing parts and must be serviced annually according to DIN EN 1717 and DIN EN 806-5. (See UWS L-BOXX PST for easy inspection of system separators type BA according to DIN EN 806-5, art. no. 200001).

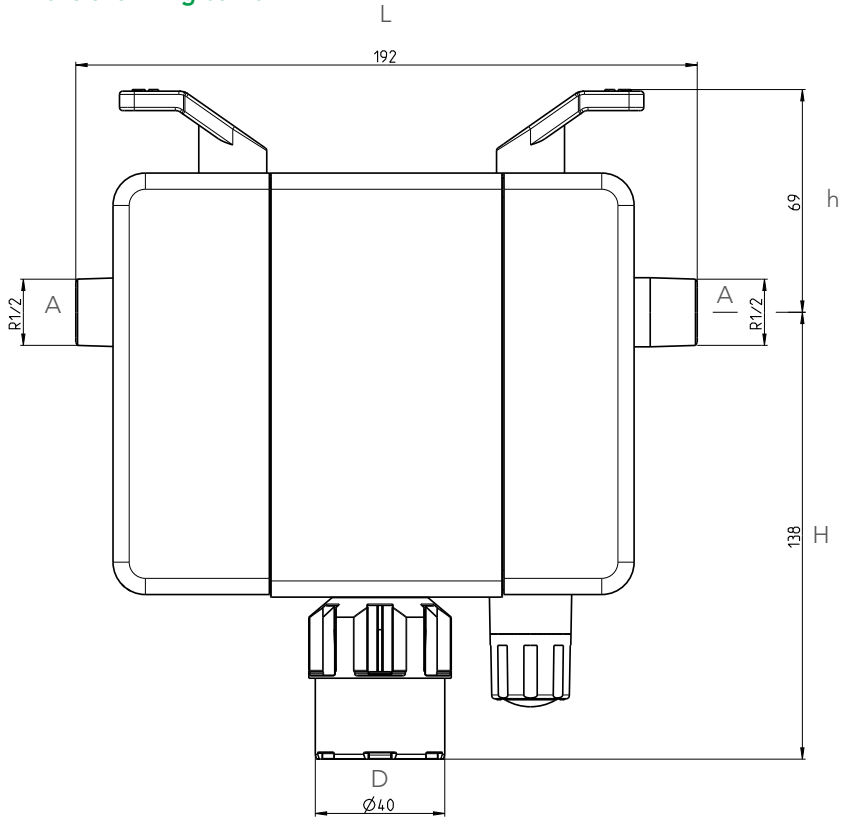
Technical data Filling combi

	Filling combi BA
Part number	300920
Connections	R 1/2"
Nominal width	DN 15
Flow medium	Drinking water
Max. Operating pressure	10 bar
Min. inlet pressure	2.5 bar for 1.5 bar heating system pressure
Outlet pressure	1.5 - 6 bar
Factory setting	1.5 bar
Mounting position	Horizontal with drain funnel down
Max. Inlet temperature	30°C
Drain funnel connection	DN 40
Filling capacity	1.5 m ³ /h at Δp 1.5 bar

Performance diagram filling combination 300920



Dimensions filling combi



Type	Filling combination BA	
Nominal size		DN 15
Construction dimensions	A	R 1/2"
	H	138 (mm)
	h	69 (mm)
	L	192 (mm)
	D	40 (mm)



our water. safe.

Your contact:

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