

BIOCAT KS 5000-S
BIOCAT KS 5500-S
BIOCAT KS 6500-S
BIOCAT KS 7000-S



BIOCAT KS 5000-S



BIOCAT KS 7000-S

Assembly instructions

FailSafe

EN



This unit has to be installed by a qualified technician in accordance with the documentation provided by WATERCryst, the additional manufacturer documentation and in compliance with local regulations.

Please note before installation!

- **DIN 1988-200 section 12.2:**
The system may only be installed in frost-free locations where the ambient temperature does not exceed 25°C.

Do not exceed a system pressure of 8 bar.

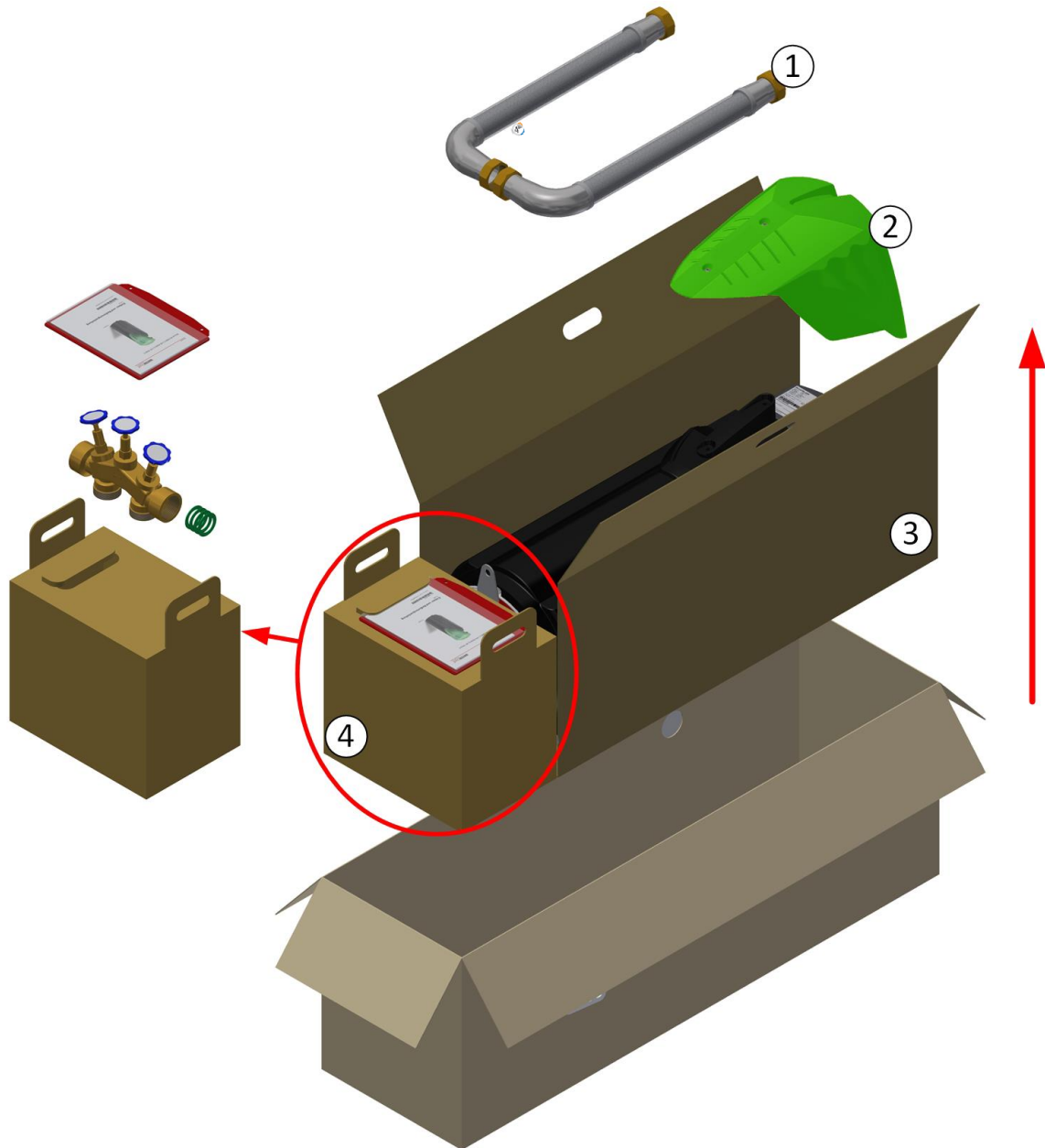
- The subsurface must be stable and as level as possible.
→ **Pay attention to the working load!** (see technical data)
- Adhere to the maintenance and wall clearances
→ Observe installation dimensions
The accessibility of the system for maintenance and service work must be ensured. In particular, the accessibility of the system must be ensured to such an extent that it is possible to dismantle the system and the attachments at any time.
- A qualified electrician should install a properly grounded power socket in the mounting area
- **Close off access securely to the installation area!**
- **Please note the installation and operating manuals!**



Risk of scalding!

Hot water exits into the drain funnel during backflushing.

1 Scope of delivery



1: Corrugated stainless steel tubing

2: Device hood

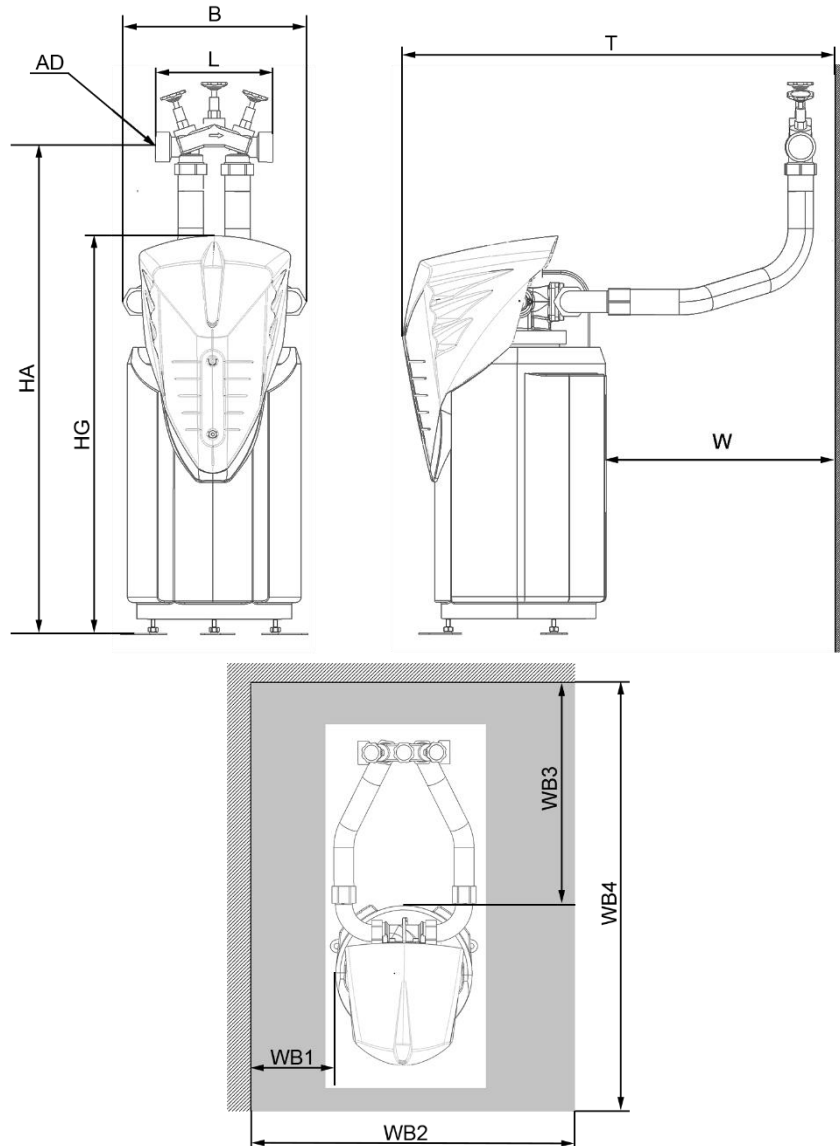
3: BIOCAT KS device incl. insulation

4: Accessory pack (consisting of OI, bypass valve & seals)



The power cord is not included!

2 Installation dimensions

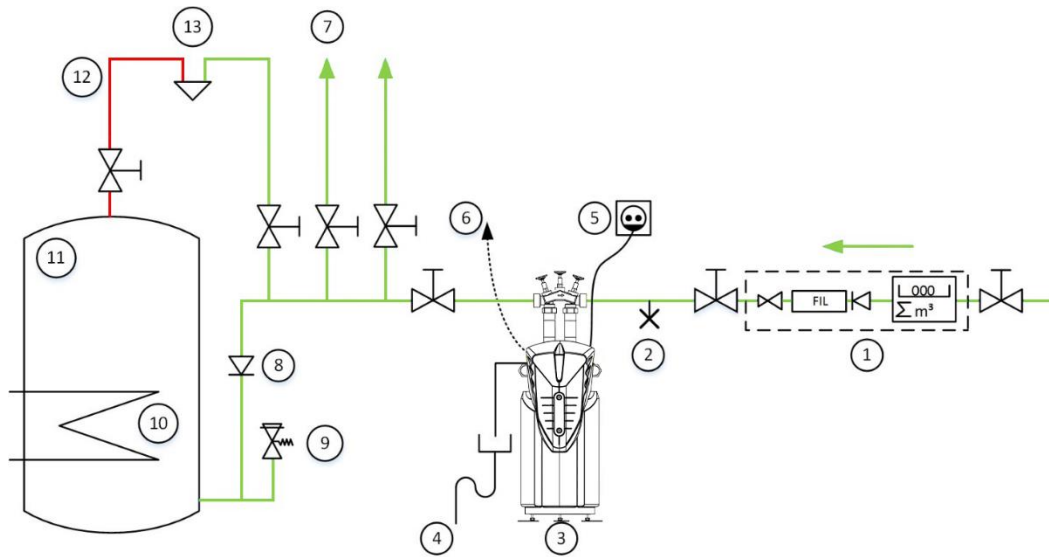


Dimensions		Unit	KS 5000-S	KS 5500-S	KS 6500-S	KS 7000-S
Unit width	B		375		380	
Connection length	L	[mm]	216			
Connection dimension	AD	DN	40 (1 ½")			
Connection height	HA	[mm]	900		1.060	
Unit height	HG	[mm]	725		870	
Depth	T	[mm]	640		675	
Wall distance	W=WB3	[mm]	300			
Maintenance area 1	WB1	[mm]	150			
Maintenance area 2	WB2	[mm]	min. 680			
Maintenance area 4	WB4	[mm]	min. 750			
Weight water filled		[kg]	43	46	53	
Connection dimension flushing pipe		DN	15 (1/2")			
Discharge dimension		DN	50			

3 Installation diagram

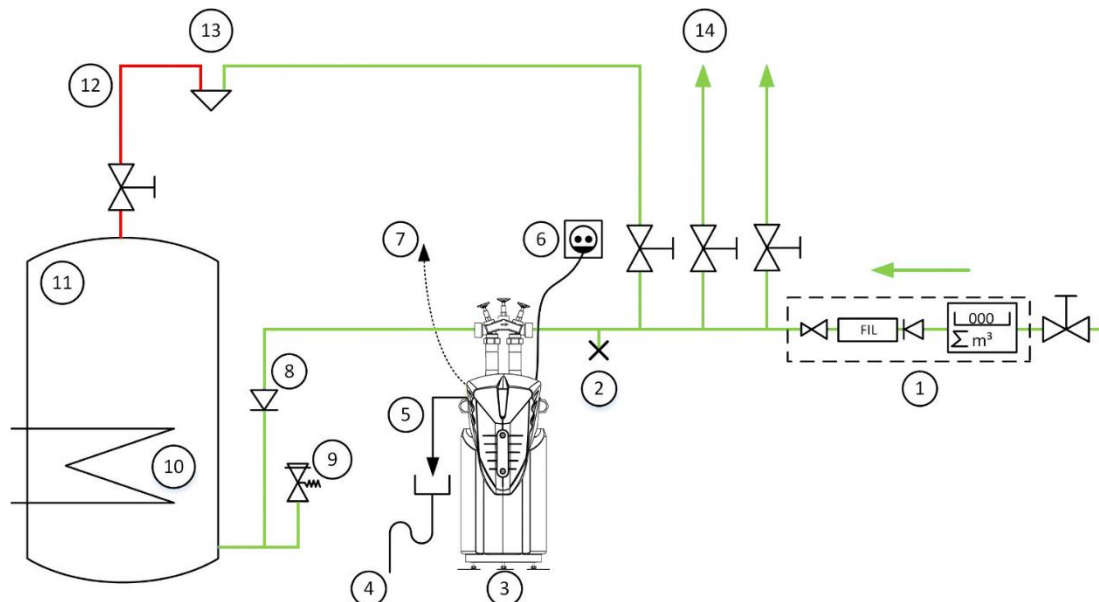
Option A: Protection of the entire drinking water installation

Installation is carried out on the cold water supply line!



(1) Water meter + domestic water station; (2) Drain valve; (3) BIOCAT limescale conditioner; (4) Free outlet into drain; (5) Flushing line (temperature resistant 80°C); (6) Socket outlet; (7) Optional: integration into building control using a signal contact; (8) check valve; (9) pressure relief valve; (10) Heat exchanger; (11) hot water tank; (12) hot water manifold with hot water riser; (13) wall mounted mixer tap; (14) cold water distributor with cold water riser

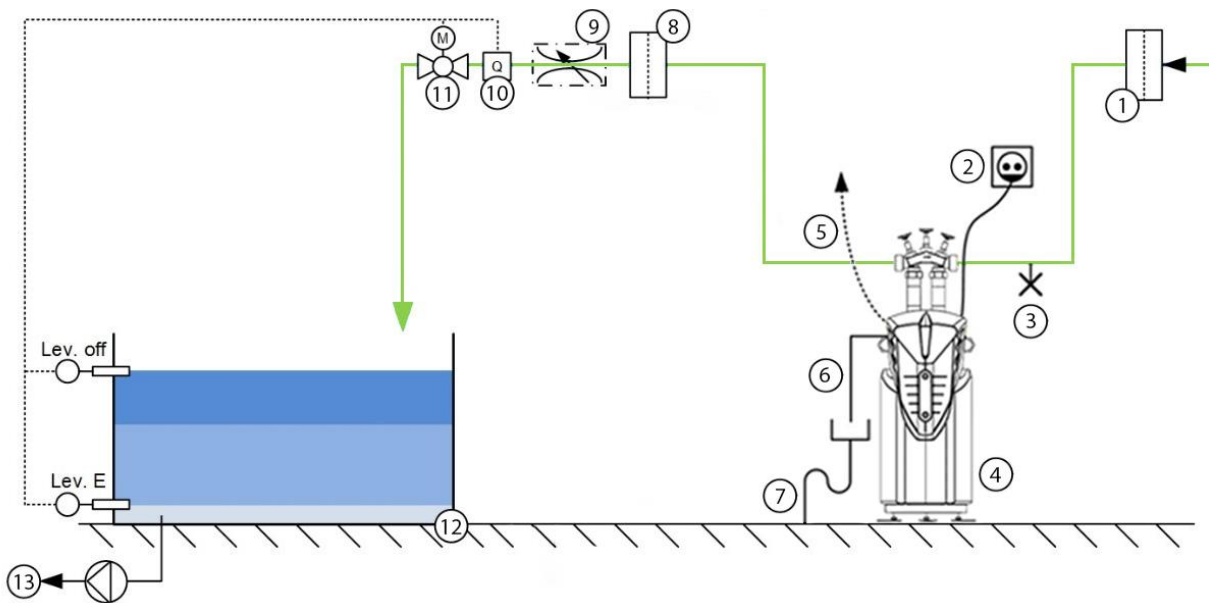
Option B: Protection for the hot water installation



(1) Water meter + domestic water station; (2) Drain valve; (3) BIOCAT limescale conditioner; (4) Free outlet into drain; (5) Flushing line (temperature resistant 80°C); (6) Socket outlet; (7) Optional: integration into building control using a signal contact; (8) check valve; (9) pressure relief valve; (10) Heat exchanger; (11) hot water tank; (12) hot water distributor with hot water riser; (13) wall mounted mixer tap; (14) cold water distributor with cold water riser

Option C: Protection of a drinking water reservoir and subsequent drinking water installation

Install the BIOCAT KS unit in the cold water inlet of a drinking water reservoir!



(1) pre-filter; (2) socket 230V 50Hz; (3) drain cock; (4) BIOCAT KS limescale protection device; (5) optional: integration into the building management system by means of signal contact; (6) backwash line (temperature resistant 80°C); (7) free outlet into drain; (8) fine filter; (9) flow limiter; (10) flow measurement; (11) shut-off unit; (12) drinking water reservoir; (13) consumer



The installation diagram does not contain all the shut-off and safety devices required for proper installation, but only the essential components for proper installation of the unit. Relevant standards, in particular DIN 1988 and local installation guidelines, must be observed.



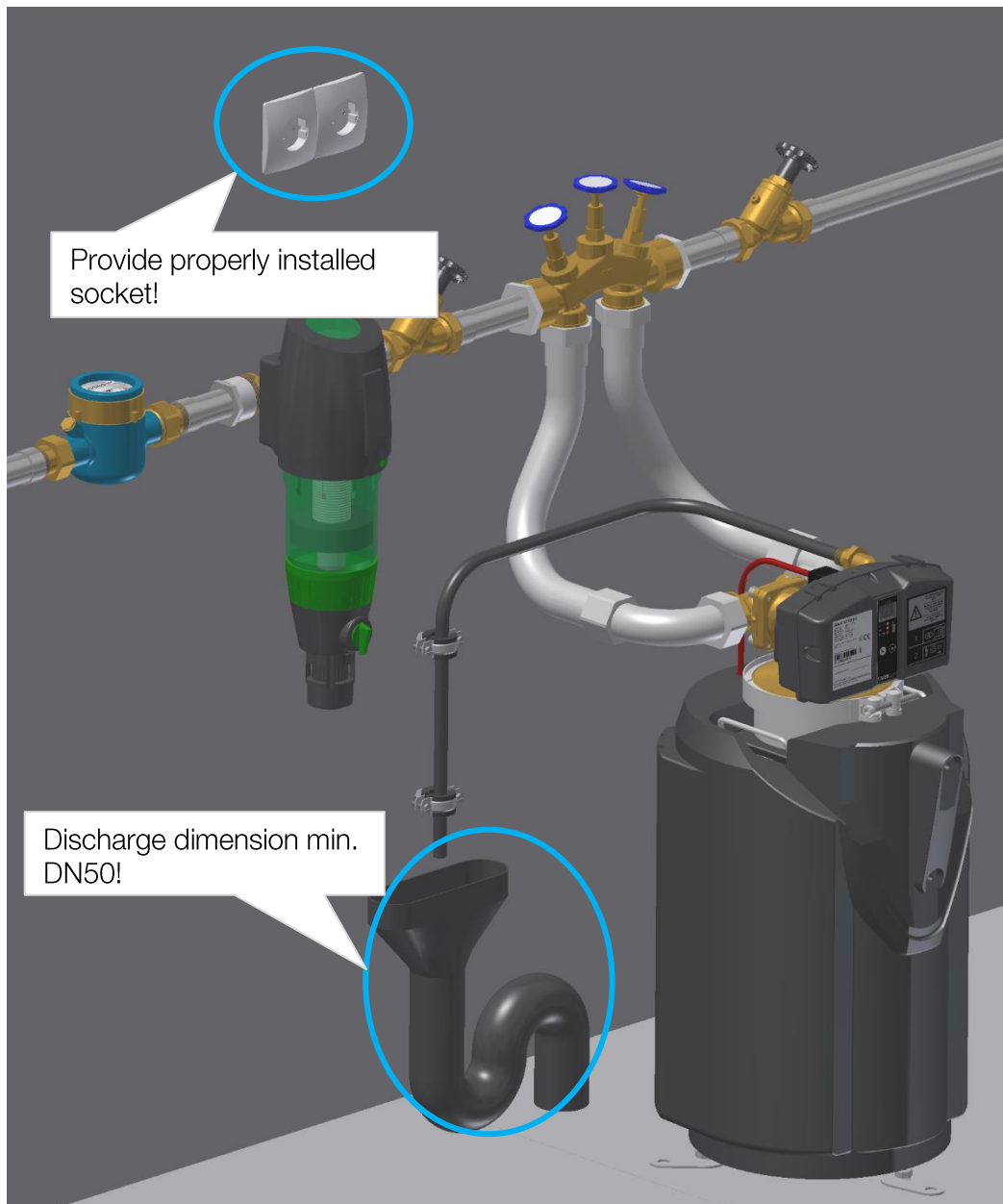
The selection of the unit size is chosen according to the refill volume flow of the drinking water reservoir.

BIOCAT continuous flow rate $Q_D \geq$ refill volume flow Q_{Refill} .

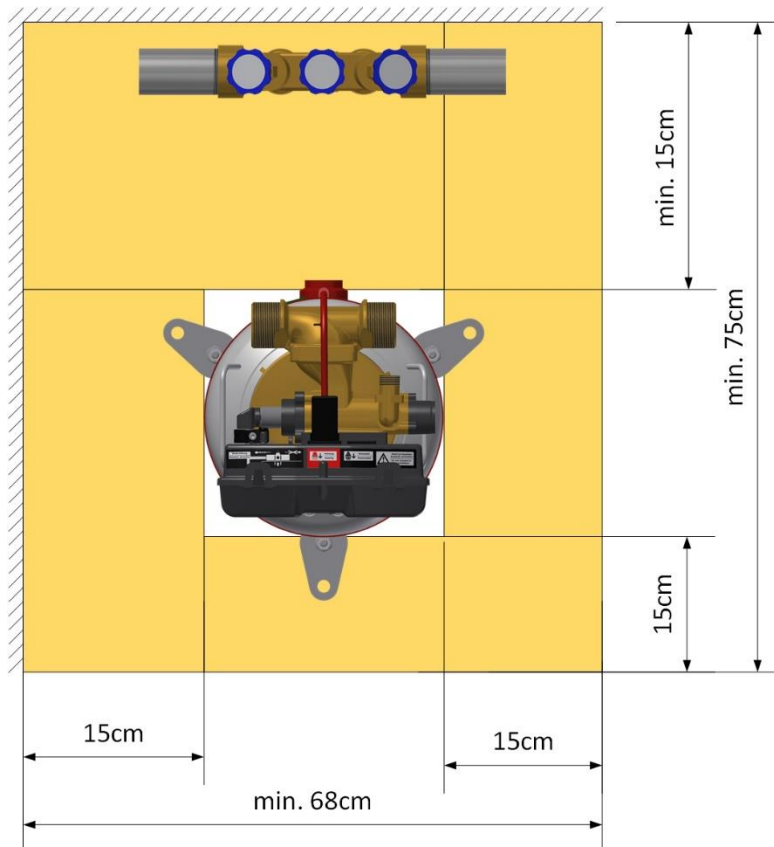
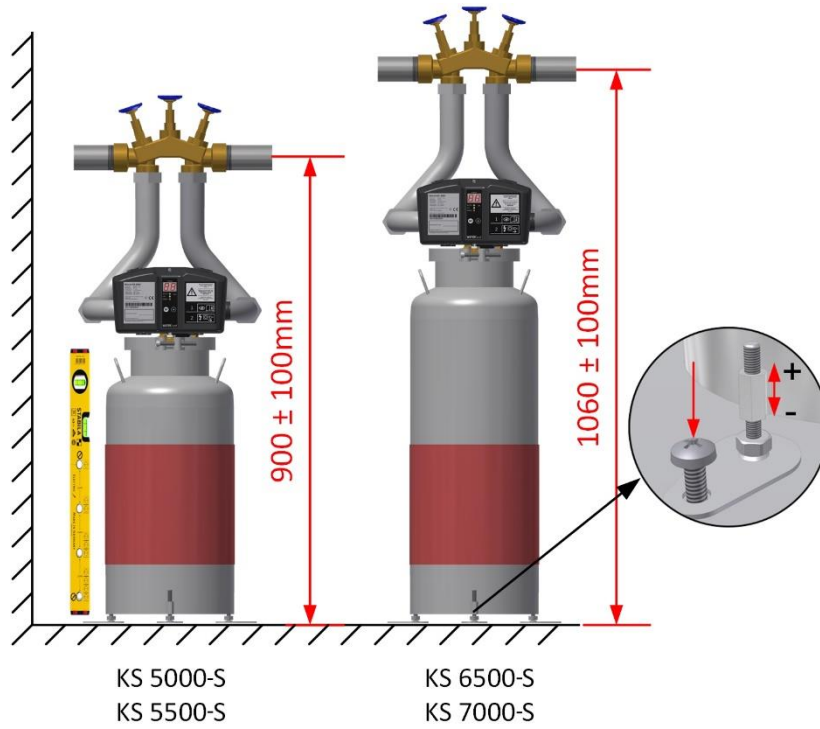
The set value of the flow limiter must not exceed the continuous flow rate of the BIOCAT.

4 Installation

Note before installation:





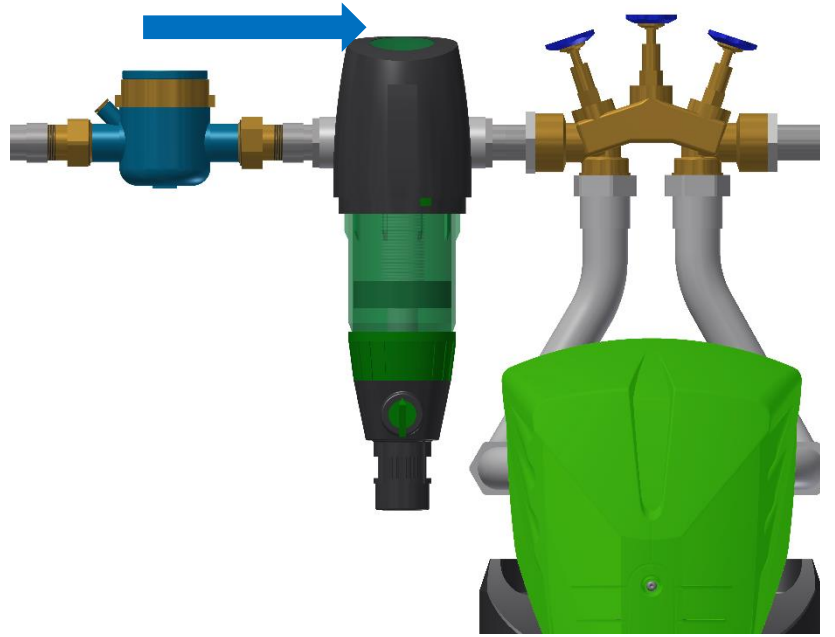


Care **MUST** be taken of these things!

1. Keep maintenance distance
2. Align the device vertically
3. Secure the device safely to the floor

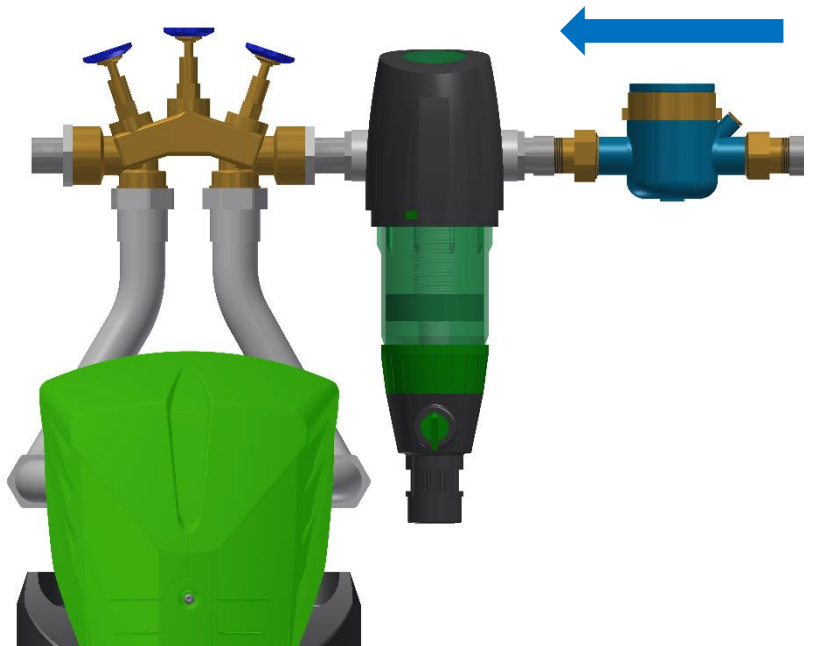
?

A

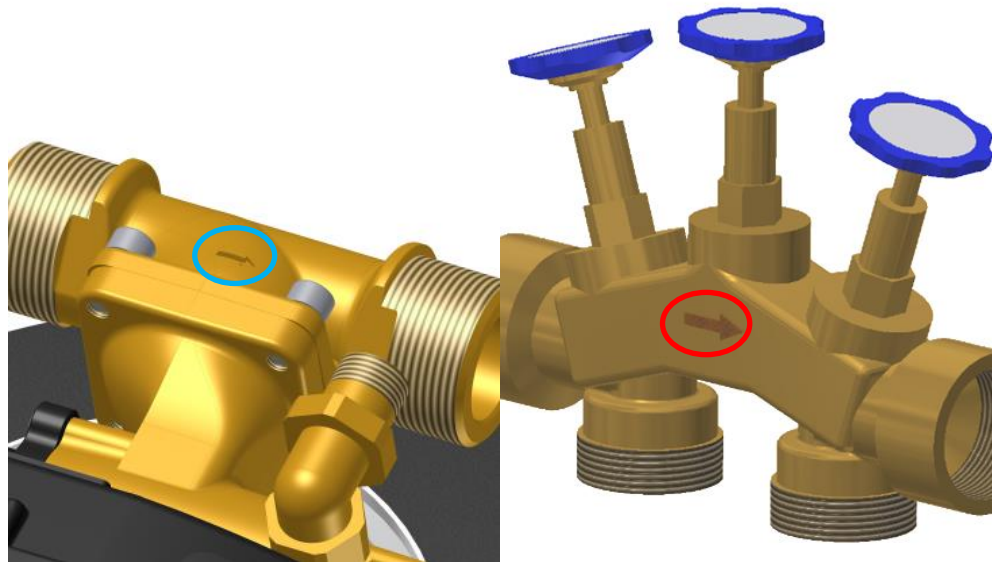
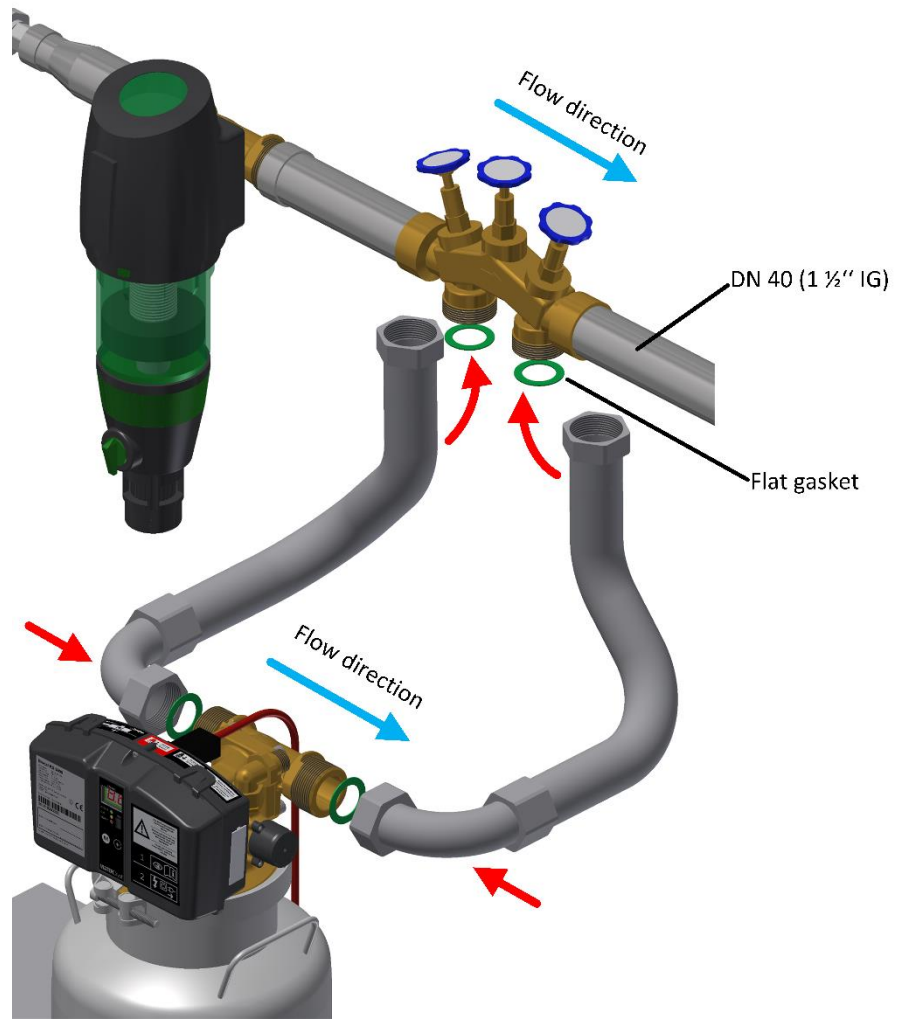


(Delivery status)

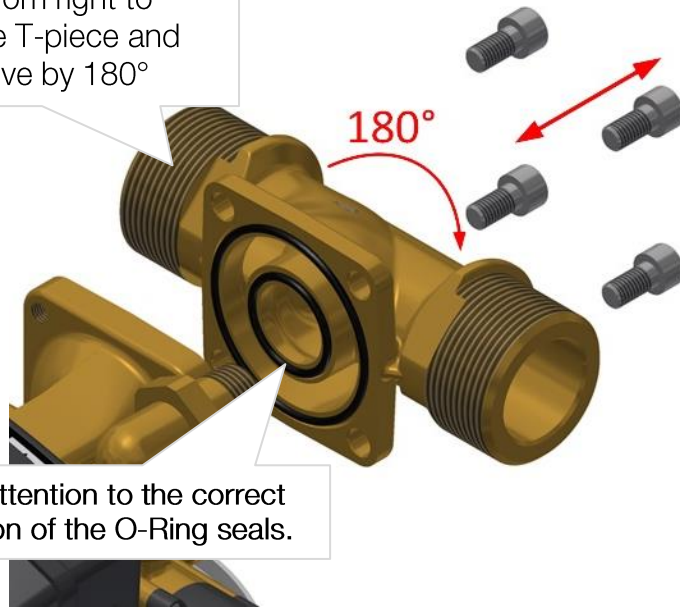
B



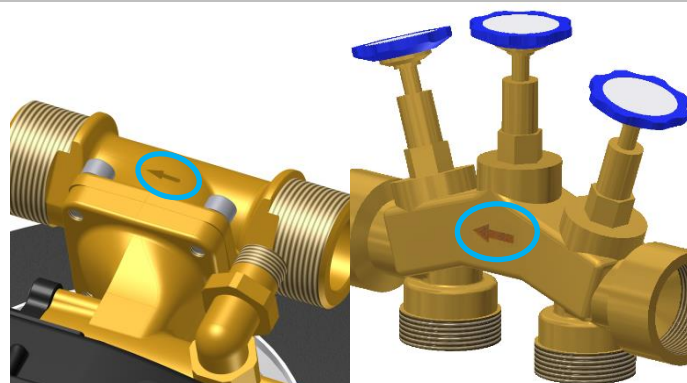
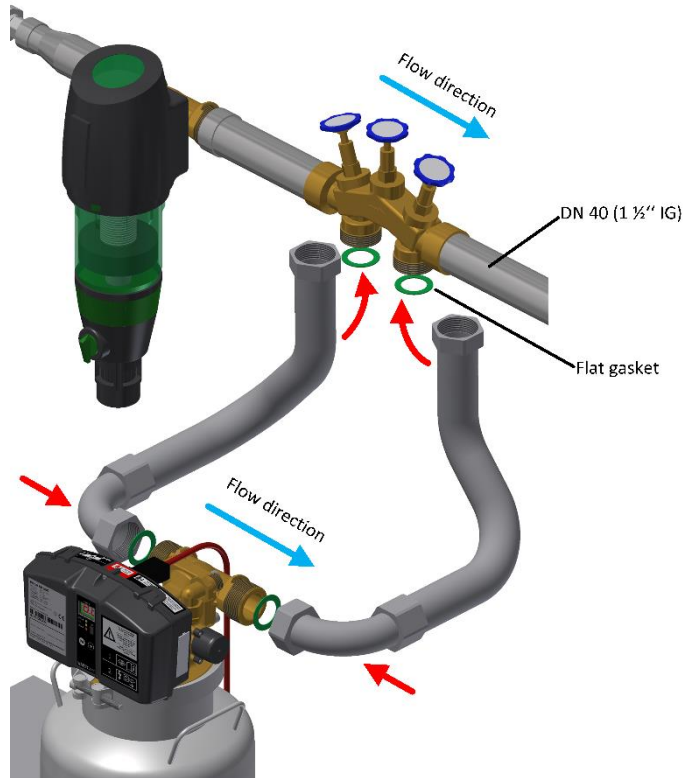
A

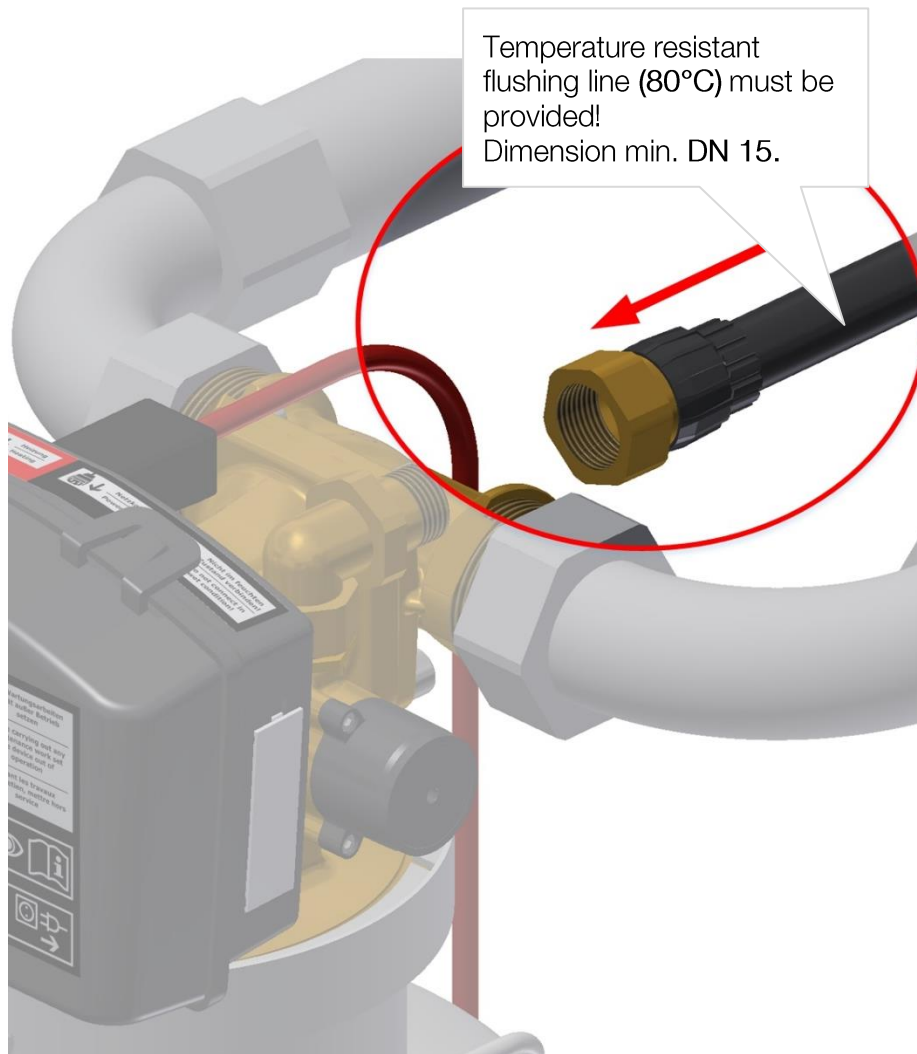


To install from right to left → Rotate T-piece and bypass valve by 180°



B





Device type	RS-flow rate [L/min]	BF-quantity [L]	BF-Temperature*
KS 5000-S / 5500-S	6	30	80°C
KS 6500-S / 7000-S		39	

*BF-temperature briefly reaches 80°C. After that, the temperature decreases.

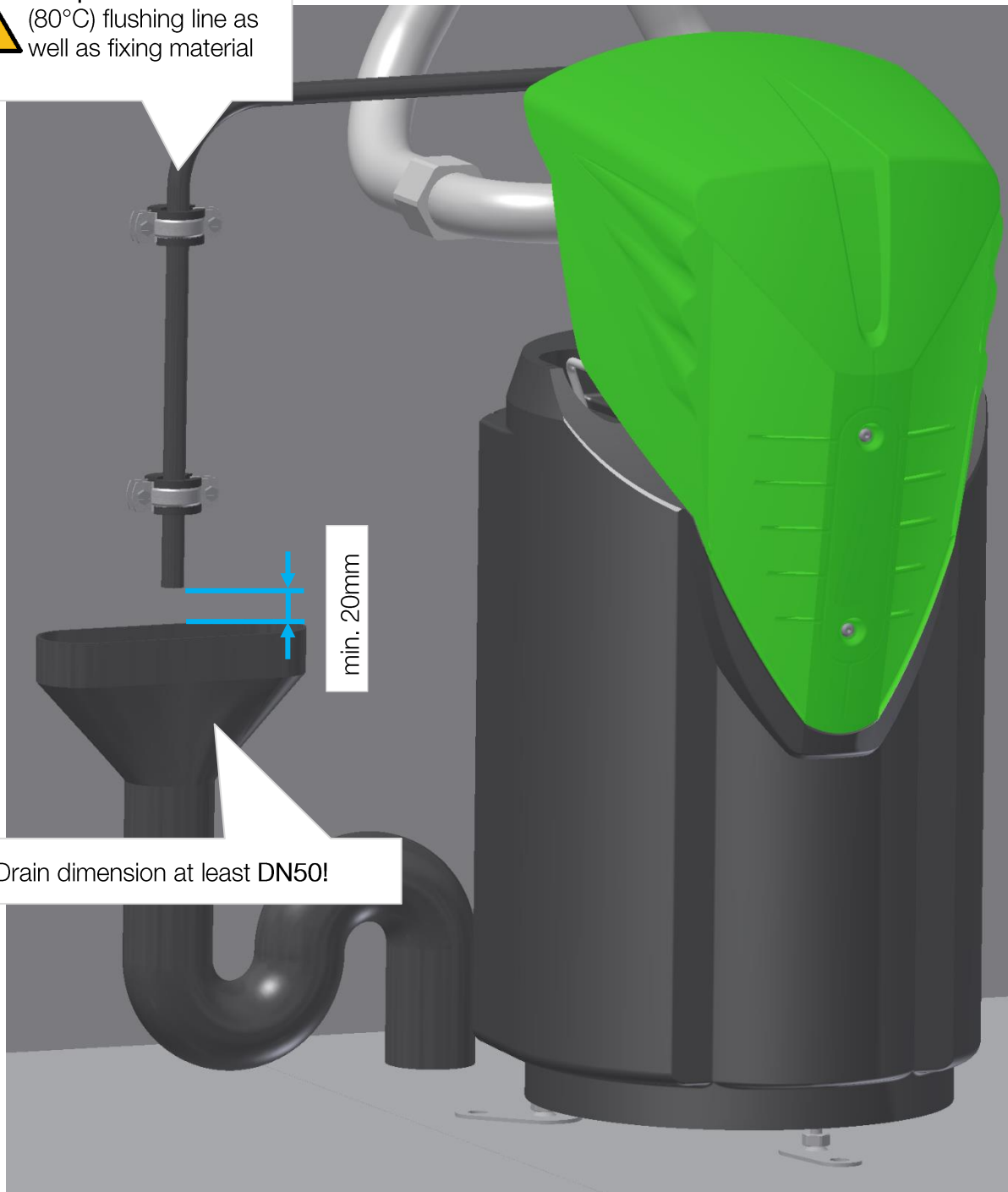


If possible, avoid the use of a lifting system!

If a lifting unit is integrated, it MUST be designed in accordance with the RS volume flow and the RS temperature!



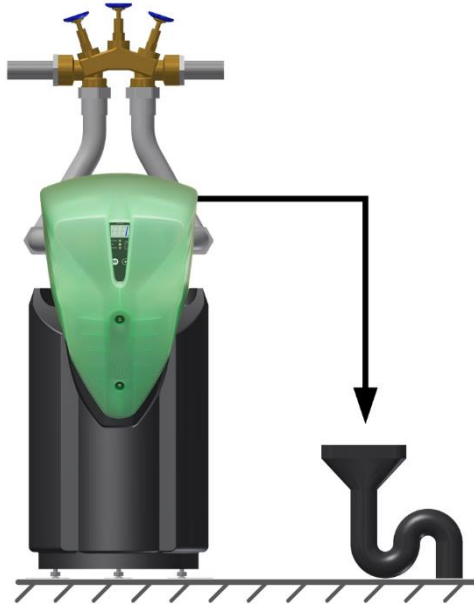
Temperature resistant
(80°C) flushing line as
well as fixing material



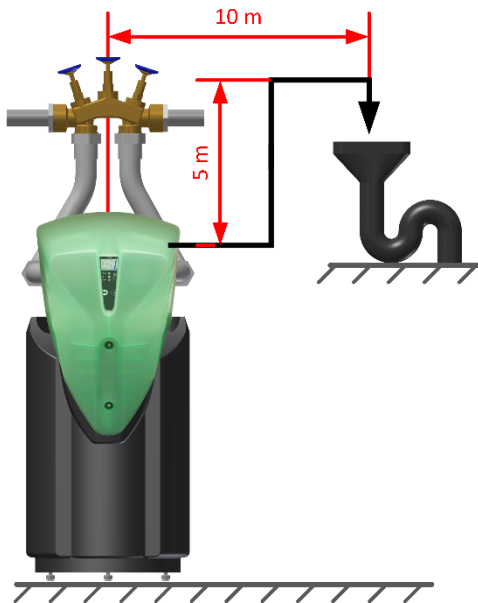
min. 20mm

Drain dimension at least DN50!

5 Variants of backwash line

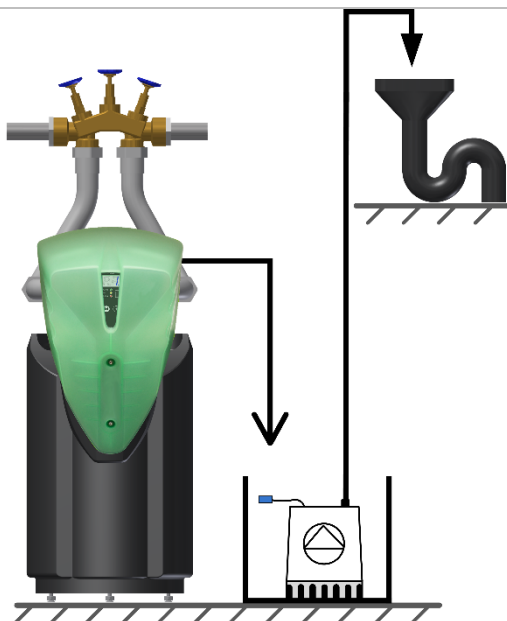


Backwash line directly into the drain!



Backwash line in the nearest channel.

Max. 10 m length
Max. 5m height difference



Backwash line is guided in the lifting system.

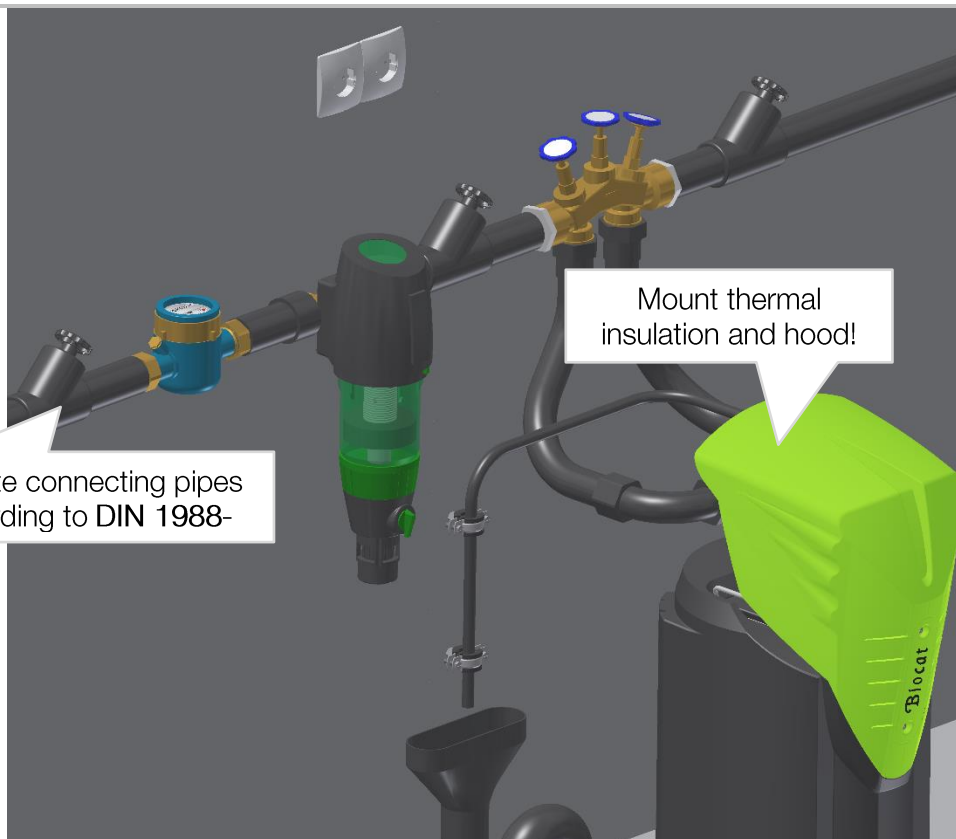
DANGER:
Flow rate 11 L/min
RS temperature: 80°C

6 Device after assembly



The commissioning sticker must NOT be REMOVED!

The commissioning is carried out **exclusively** by WATERCryst customer service!



Insulate connecting pipes according to DIN 1988-

Mount thermal insulation and hood!

Commissioning is carried out by WATERCryst customer service!



Service

When requesting service, please be sure to quote the BIOCAT serial number from the type plate and the error code from the device display!



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