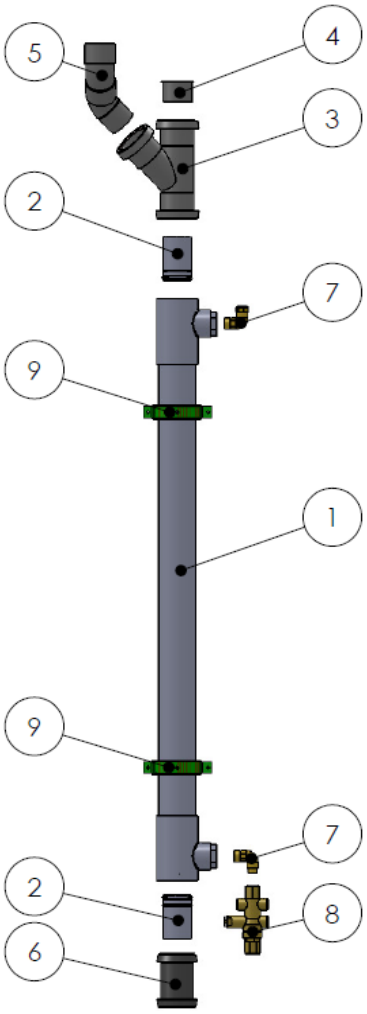
Installation instructions VXpipe

DWHR unit for shower

1. Important information

The shower DWHR unit must be installed so that it is oriented precisely vertically.
The shower DWHR unit must be installed in a position where it can be easily accessed.
The DWHR unit must not be installed in the immediate vicinity of heat sources.
Preferably, only shower drain water should be led through the shower DWHR unit.
Placement should be in accordance with the instructions specified in ISSO 30.4.



2. Package contents

Part number	Q'ty	Name	Material/Description	Technical specifications (dimensions in mm)
1	1	Double-walled shower drain DWHR unit	Interior parts: copper Exterior case: PVC (pressure class PN10)	Length 2000, ∅ 63 Weight: 8.3 kg Capacity: 300 ml
2	2	Coupling insert	PVC	∅ 50
3	1	T-piece 45°	PP with rubber sleeves	3 x ∅ 50
4	1	Cap (insert)	PP	∅ 50
5	2	Curved sleeve	PP with rubber	∅ 50 x 45°

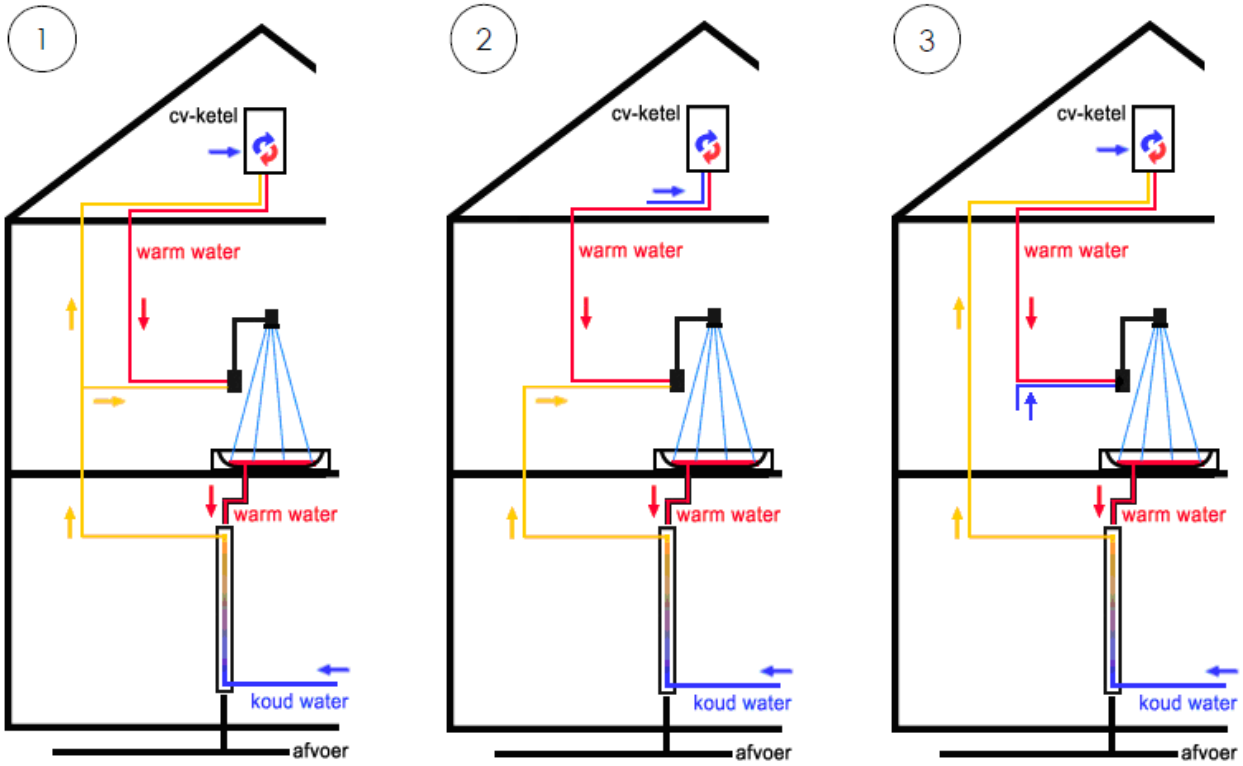
		and insert	sleeves	
6	1	Coupling sleeve	PP with rubber sleeves	∅ 50
7	2	Double pipe nipple, self-sealing	Brass/rubber	1/2" male thread
8	1	Shutoff valve	Brass / with verifiable non-return valve and draw-off valve – compression	15 x 15 Protection class EA M / Kiwa-certified
9	2	Mounting bracket + wooden plugs	With rubber inset	∅ 63 + M8 x 80

Please check that all these parts are present.

3. Placement

The heat recovery unit, verifiable non-return valve and shutoff valve must be easily accessible.
It is important that the shower DWHR unit be installed so that it is oriented precisely vertically. Use a spirit level to ensure vertical alignment.
The shower DWHR unit must be placed as close to the shower drain as possible. Installation at a displacement of several metres is also acceptable. The loss in efficiency is roughly 1% per metre of horizontal displacement.
Preferably, lead only shower drain water through the shower DWHR unit.
Install the shower DWHR unit in a dry, frost-free space.
Do not install the shower DWHR unit immediately adjacent to heating pipes or other heat sources. Do not insulate DWHR unit. Installation in a meter cupboard is permitted.
The use of a thermostatic shower mixer tap is strongly recommended.
Install the shutoff valve with the arrow in the direction of the water flow.
Use Teflon tape or wire for sanitary connections.
Lightly coat the rubber gaskets of the parts used to connect the drain using a lubricant or washing up liquid to make fitting easier.

4. Connecting



cv-ketel	combination boiler (water heater)
warm water	hot water
koud water	cold water
afvoer	sewer system

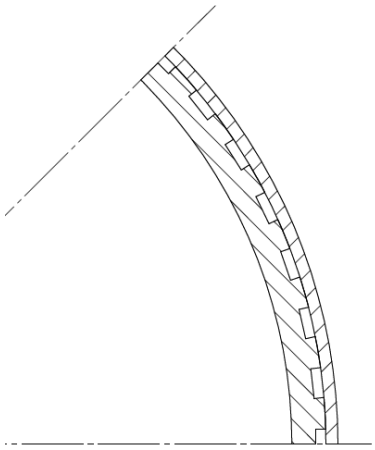
Connecting to the existing pipe system: connect the shower DWHR unit to the “cold” side of the shower mixer tap and the cold water inlet of the combination boiler (see diagram 1). Connecting the DWHR unit in this way achieves the greatest efficiency. If connection to the combination boiler involves too much work, you can also connect the DWHR unit to the shower tap only (see diagram 2). In this case, the DWHR unit will be roughly 15% less efficient (NEN 5128). If you connect the DWHR unit as shown in diagram 3, performance will be reduced by roughly 25%.

5. Performance and benefits

Tap water capacity	Flow rate (at 40 °C)	Shower DWHR unit efficiency and power delivered (at a cold water temperature of 10 ˚C).	Pressure drop
N/A	5.5 l/min,	62.7 % (7.2 kW)	< 20 kPa
N/A	7.5 l/min,	59.3 % (9.3 kW)	40 kPa
CW 3	9.2 l/min,	57.6 % (11.1 kW)	55 kPa
CW 4	12.5 l/min,	56.0 % (14.6 kW)	100 kPa

6. Safety

European regulations (NEN 1717) require that double walls must be used to separate drain water and drinking water. In the shower DWHR unit, this is accomplished by squeezing two copper pipes against each other. This creates a very sturdy and reliable construction, in which the contact between the pipes does not depend on the water pressure. The design meets all the relevant safety requirements.
The shower DWHR unit is protected against return flow through a verifiable non-return valve plus shut-off valve, which is included with the unit. It is permissible to connect the system directly to the sewer system.
The shower DWHR unit meets all TNO requirements regarding the prevention of Legionnaire's Disease: the unit does not contain any dead spaces, the volume is 0.3 litres, there is a turbulent flow through the unit and insulation of the shower DWHR unit is not permitted.



Cross-section of the shower DWHR unit with leak detection ducts.

7. Maintenance and user instructions

In principle, the shower DWHR unit requires no maintenance. However, the use of cleaning agents that consist of a chalklike suspension (abrasive cleaning fluids) can lead to the formation of deposits. For this reason, the use of these kinds of cleaning agents is not recommended.
If you are an installation technician and you believe that the unit's performance is deteriorating over time due to very intensive use or specific conditions (for example, use in a hairdresser's), you can clean the unit. The unit can be cleaned by removing the cap on the T-piece and using a special flexible brush available from BRIES.

Should you have any questions, comments or possible additions related to these installation instructions, please contact us.

The VXpipe is produced by Bries Energietechniek in the Netherlands.
In Norway, VXpipe is distributed by Meander Heat Recovery.

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