

Installation Guide for **Planmeca ClinicPatrol™** by BWT

Dental Units & Autoclaves



For Autoclaves only



For Units and Autoclaves

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1 Introduction

ClinicPatrol™ is a combination of reverse osmosis and a filter cartridge for complete desalination of the permeate.

2 Planmeca App download

Download site for Planmeca ClinicPatrol™.
Scan QR code



3 Documents and films regarding Planmeca ClinicPatrol™

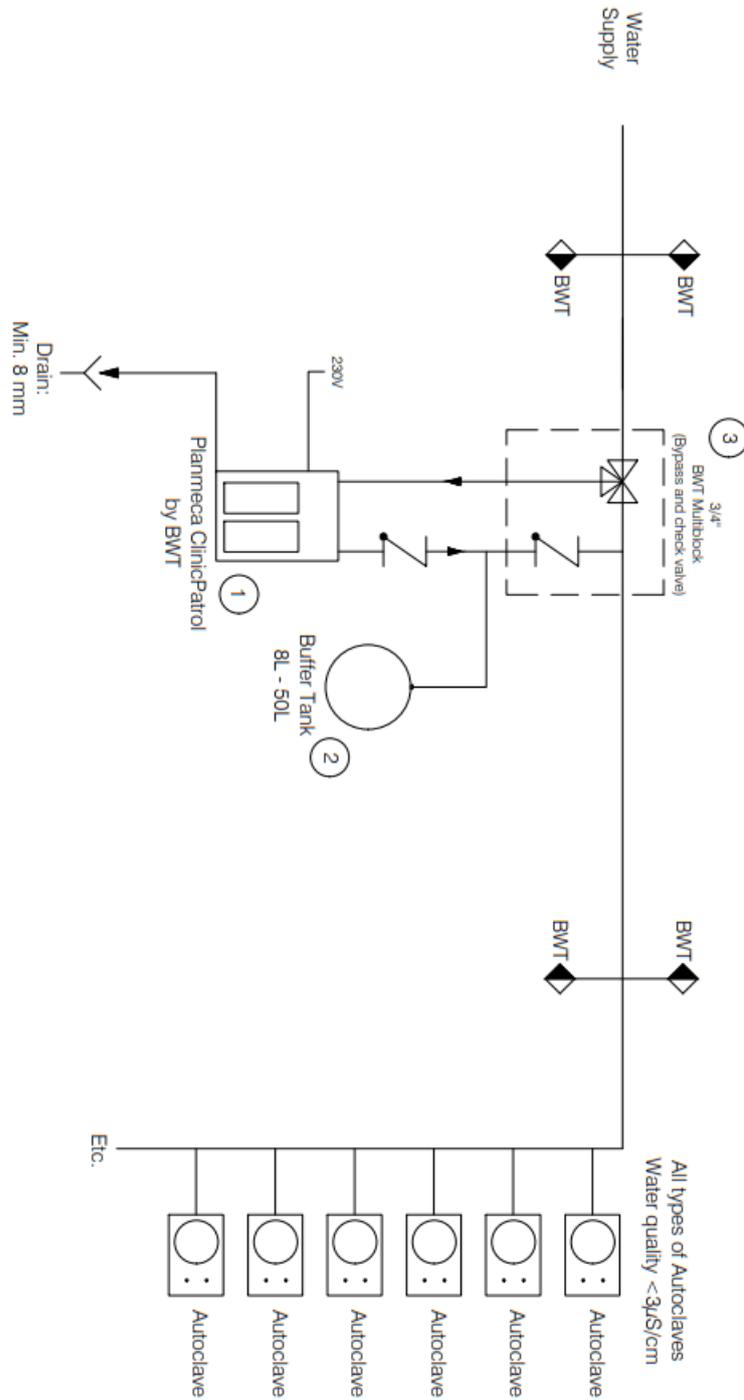
To access the documents and videos listed below, please scan the QR code above.

- Documents
 - o Manual
 - o Service and Maintenance, document
 - o CE Declaration of conformity
 - o FAQ
 - o Installation guide for Units & Autoclaves
 - o Installations setup for Autoclaves
 - o Installations setups for Units & Autoclaves

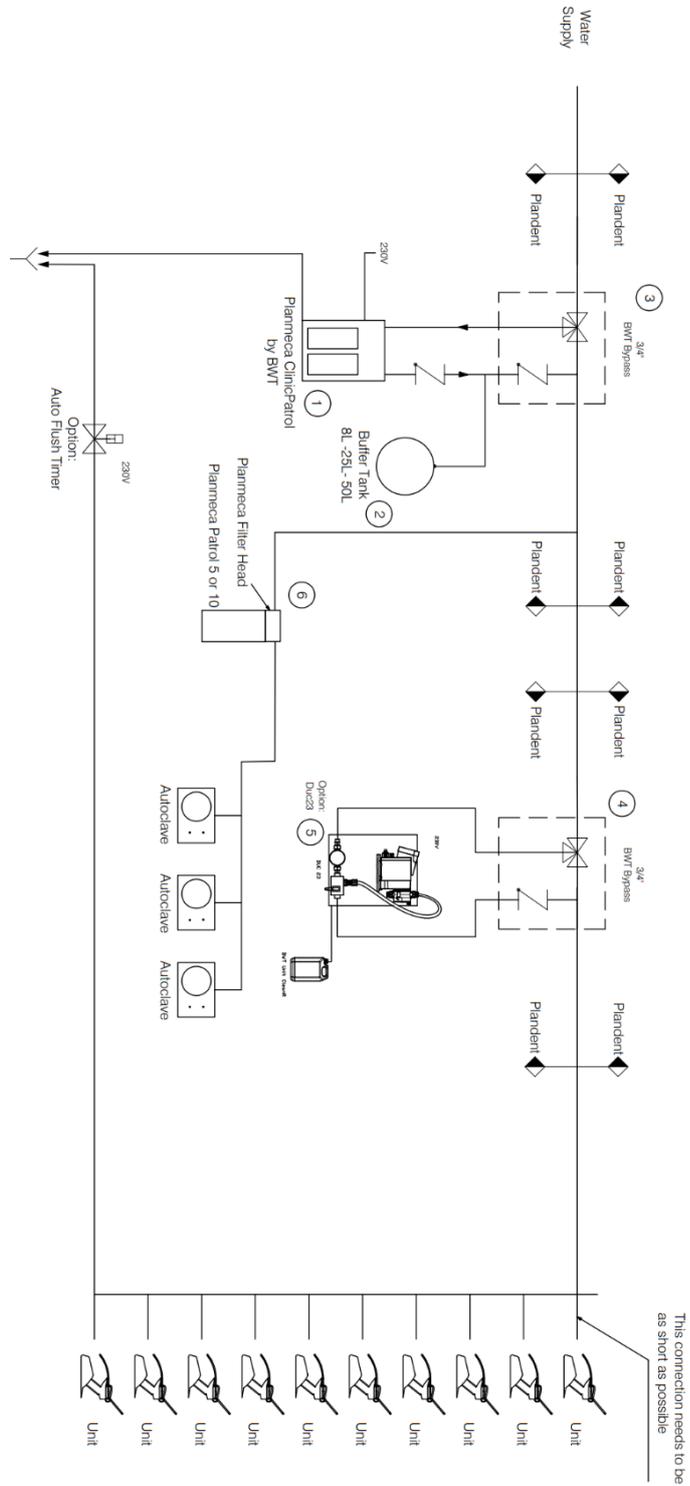
- Videos
 - o Installation
 - o Service guide
 - o Guide for filter replace

4 P&I Diagram

4.1 Only autoclaves



4.2 Both Units and Autoclaves



5 Scope of delivery

1	1 pc Planmeca ClinicPatrol™ unit. 1 pc Planmeca Patrol™ 5 1 pc Planmeca Patrol™ 14	
2	1 pc Power cable, Power Cord SCHUKO	
3	1 pc Elbow 8 mm	
4	2 m Black Tube, 8 mm	
5	2 m Blue Tube, 8 mm	
6	1 pc HT-Drain	
7	1 pc Straight terminal F3/8" 8 mm	
8	1 pc Straight male 1/2" 8 mm	
9	1 pc Reduction F3/8" x M3/4"	
10	1 pc Flow Restrictor Stainless Steel 1.4 mm	
11	4 pcs Clips 8 mm	 X4

Note: Some components in this set are not required for all installations and must not be used unless specified.

6 Installations Kits

12	1 pc Hydrofor 8, 25, 50 l	
13	4 pcs SPX DN8 3/4F x 3/4E 1500 mm	
14	5 m Tube Food Grade 8 mm	
15	1 pcs Power Cable with DK ground	
16	3 pcs Locking Clips 8 mm	 x3
17	1 pcs Siphon with Airgap	
18	1 Pcs. BWT quick flush ventil 1/4'	
19	1 pcs BWT Multiblock	
20	1 Pcs. MUFFENIPPEL M 1/4" X 1/8"	
21	1 pcs Bestmax blindcap for filterhead	

22	2 pcs 8 mm push-in elbow	
23	1 pcs Female X Male reduction 3/4" x 1/2" (25/50 l Hydrofor)	
24	1 pcs Female X Male reduction 1" x 3/4" (50 l Hydrofor)	
25	1 pcs TEE 1/2" METAL A18	
26	1 Pcs. Tee 1/2" Metal with hole 1/8"	
27	1 pcs KONTRAVENTIL 1/2" KORT MODEL	
28	3 pcs NIPPELMUFFE M 3/4" X 1/2"	
29	1 pcs BRYSTNIPPEL 3/4" x 1/2"	
30	1 pcs REDUKTION FM 3/4" X Ø8 mm	

7 Planmeca Patrol™ Filter head (Part No.: 428124201)

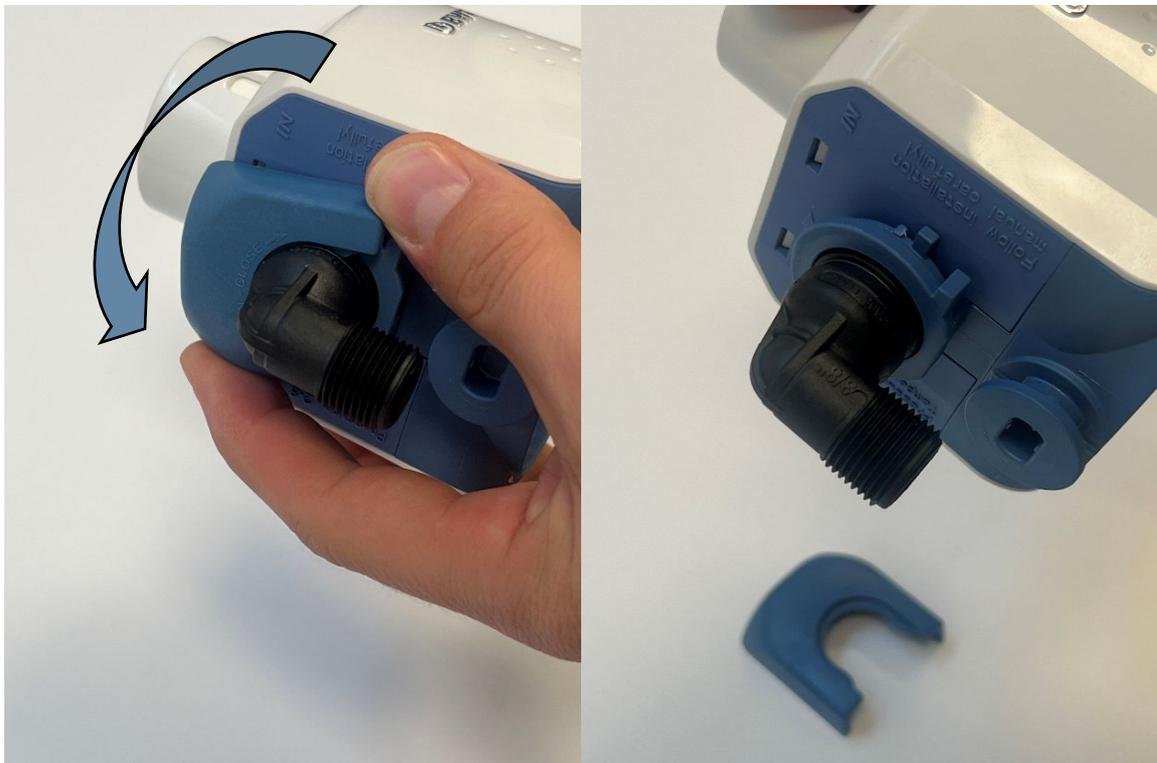
OBS: The filter head is only used when installing the system for units and autoclaves.

The filter head is assembled like shown below.

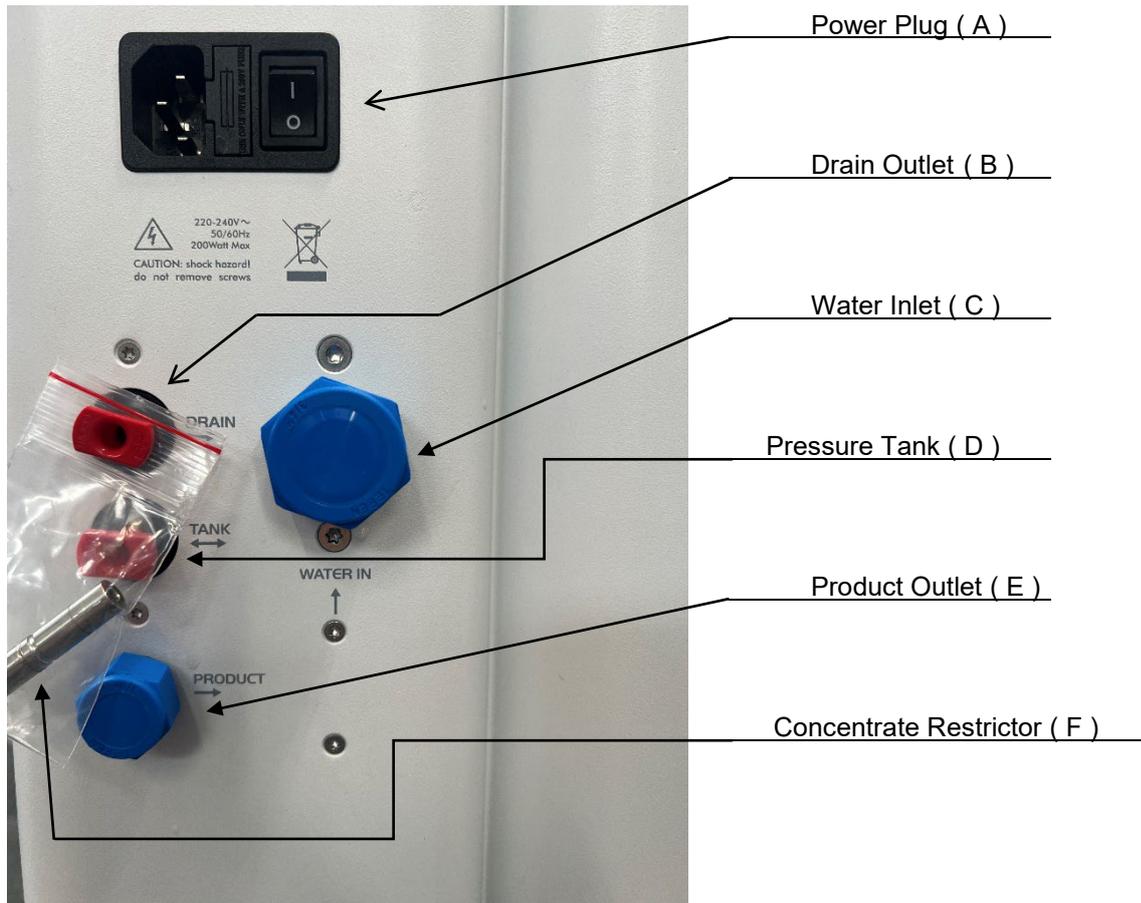


If a change or repositioning of the connectors are needed it can easily be done.

Rotate the clip to release the connection. The connector can now be removed or repositioned at a different angle. All connectors can be rotated 360°. Remount the clip after change or repositioning of the connector.

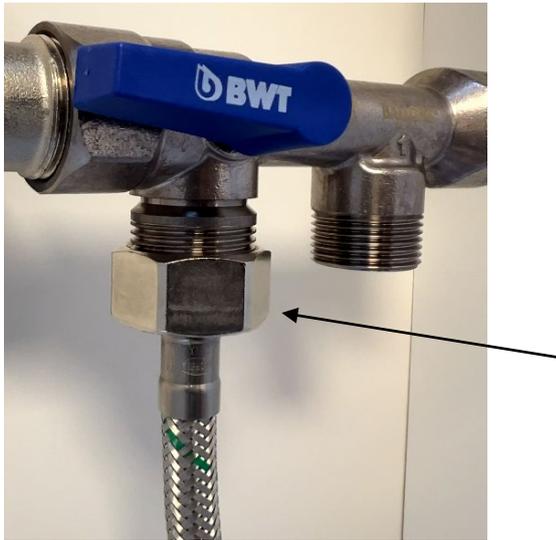


8 Overview: The back panel of the unit includes the following components:

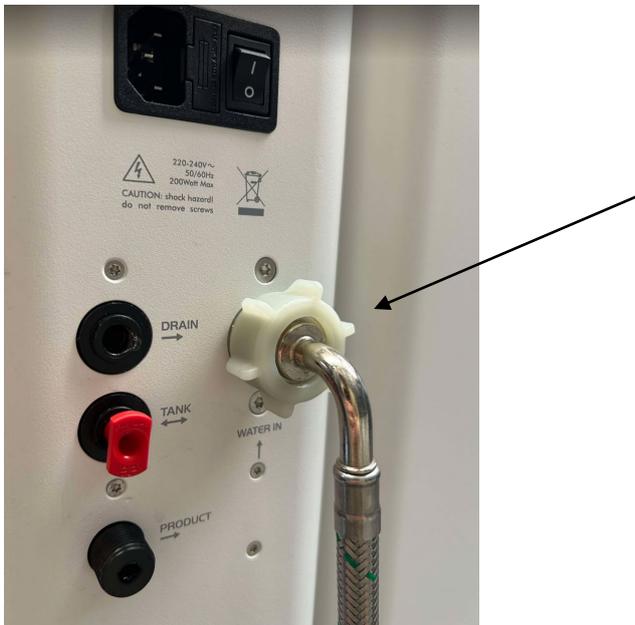


9 Step by step installation guide.

Mount the inlet water hose (13) to the inlet on the BWT Multiblock (19)

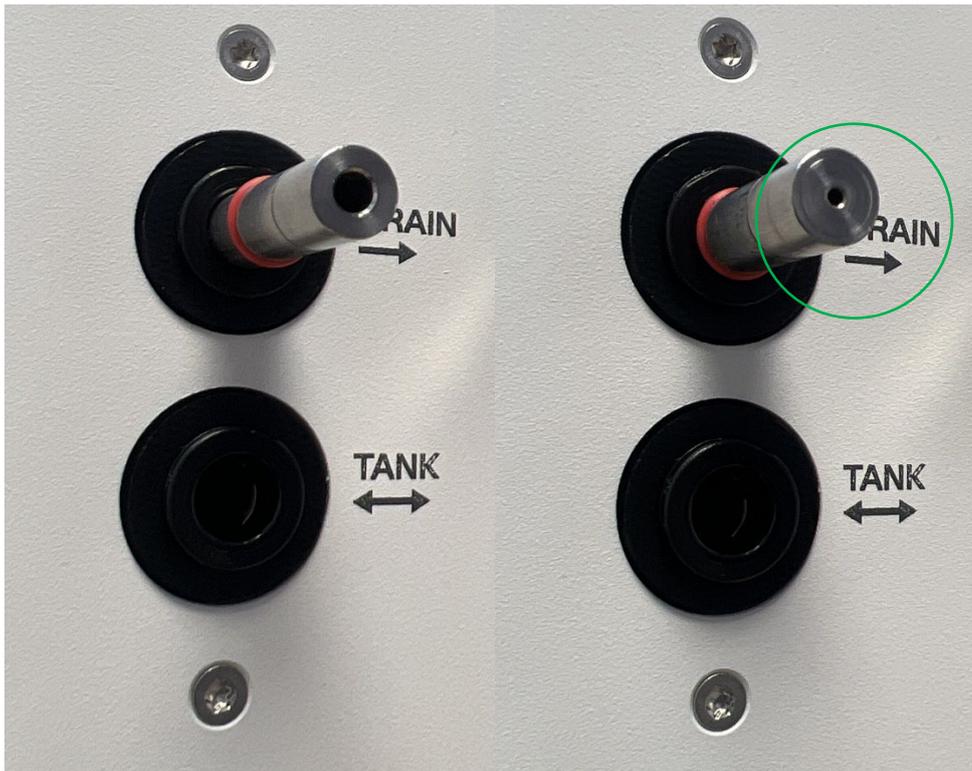
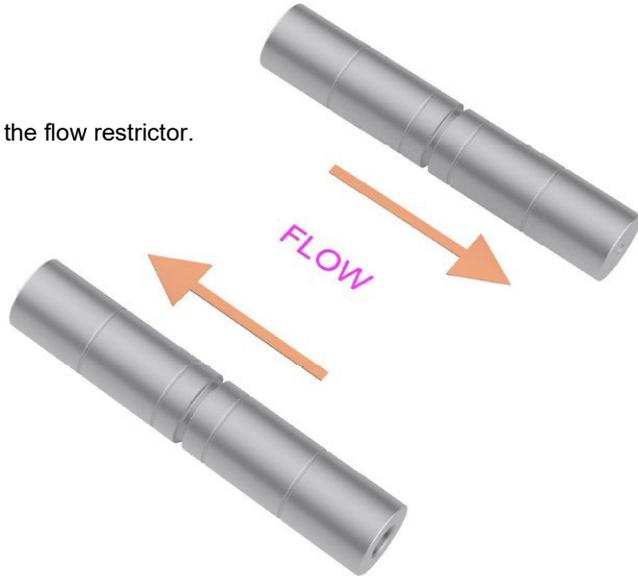


Mount the other end of the inlet water hose (13) on the Water Inlet (C).



Important!

Pay attention to the correct installation of the flow restrictor.



Incorrect



Correct Installation

Insert the Concentrate Restrictor (10) in the Drain Outlet (B).



The Drain elbow (3) can now be mounted on the Concentrate Restrictor (10).



Cut the 8 mm hose (4) to the required length to connect the unit to the siphon (17). Push the 8 mm hose (4) into the drain elbow (3).



Push the 8 mm push-in elbow (22) into the top of the Siphon (17).

Push the other end of the 8 mm hose (4) into the elbow (22) on the Siphon (17).



Use a pressure gauge to measure the pressure in the pressure tank (12)



The factory-set (default) pressure is approximately 4 bars. Deflate the tank to 1 bar before use.



Mount the Reduction F3/8" M3/4" (9) on the Product Outlet (E).

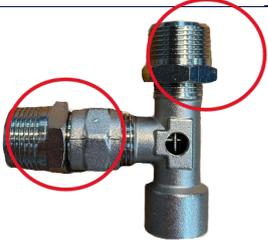
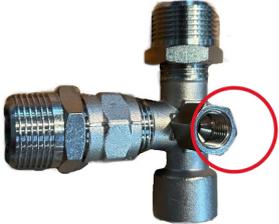


Mount the outlet water hose (13) on the reduction (9) on the product outlet (E).



Seal off the tank side with a plug.



Description	Picture
<p>Mount the check valve (27) on to the ½ tee with a hole (26).</p>	
<p>Connect a nipple coupling (28) on each end of the ½” tee with a hole (26).</p>	
<p>Now mount the ¼” x 1/8” nipple (20) in the hole of the ½” tee (26).</p>	
<p>It is now possible to connect the ¼” quick flush valve (18) to the ¼” x 1/8” nipple (20). This is how the connection for an 8L buffer tank should be.</p>	
<p>Connect ¾” x ½” female x male adapter (23) to the ½” tee. This is how the connection should be for an 25L buffer tank.</p>	
<p>Connect 1” x ¾” female x male adapter (24) to the ¾” x ½” female x male adapter (23), if a 50L buffer tank is used.</p>	

The images below illustrate an example of connecting a 8 l buffer tank (12).

Connect the tee (26) to the buffer tank (12).



Mount the outlet water hose (13) where the water from the product outlet (E) comes from to the nipple coupling (28). Be aware that the hose must be mounted on the side where the check valve (27) is.



Now mount another water hose (13) on top of the tee (26) onto the other nipple coupling (28).



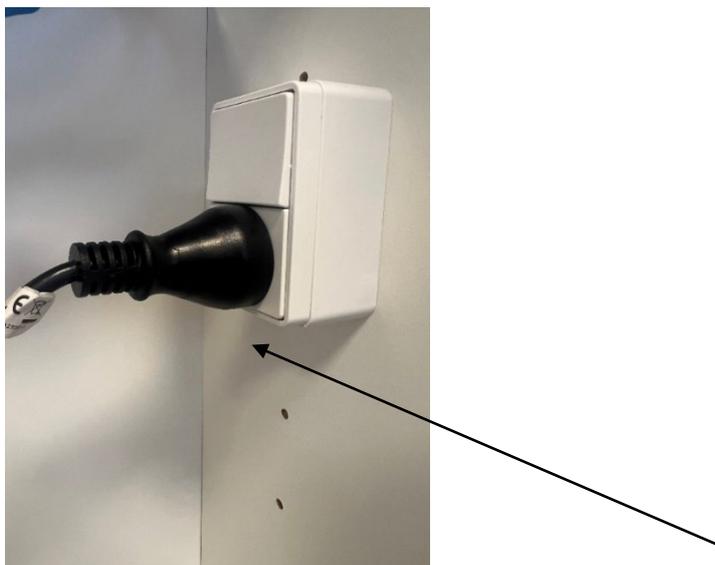
This is the water hose that should be connected to the BWT bypass (19).



Plug in the power plug (2) into the units' power inlet (A). Remember to set the power button in OFF position.



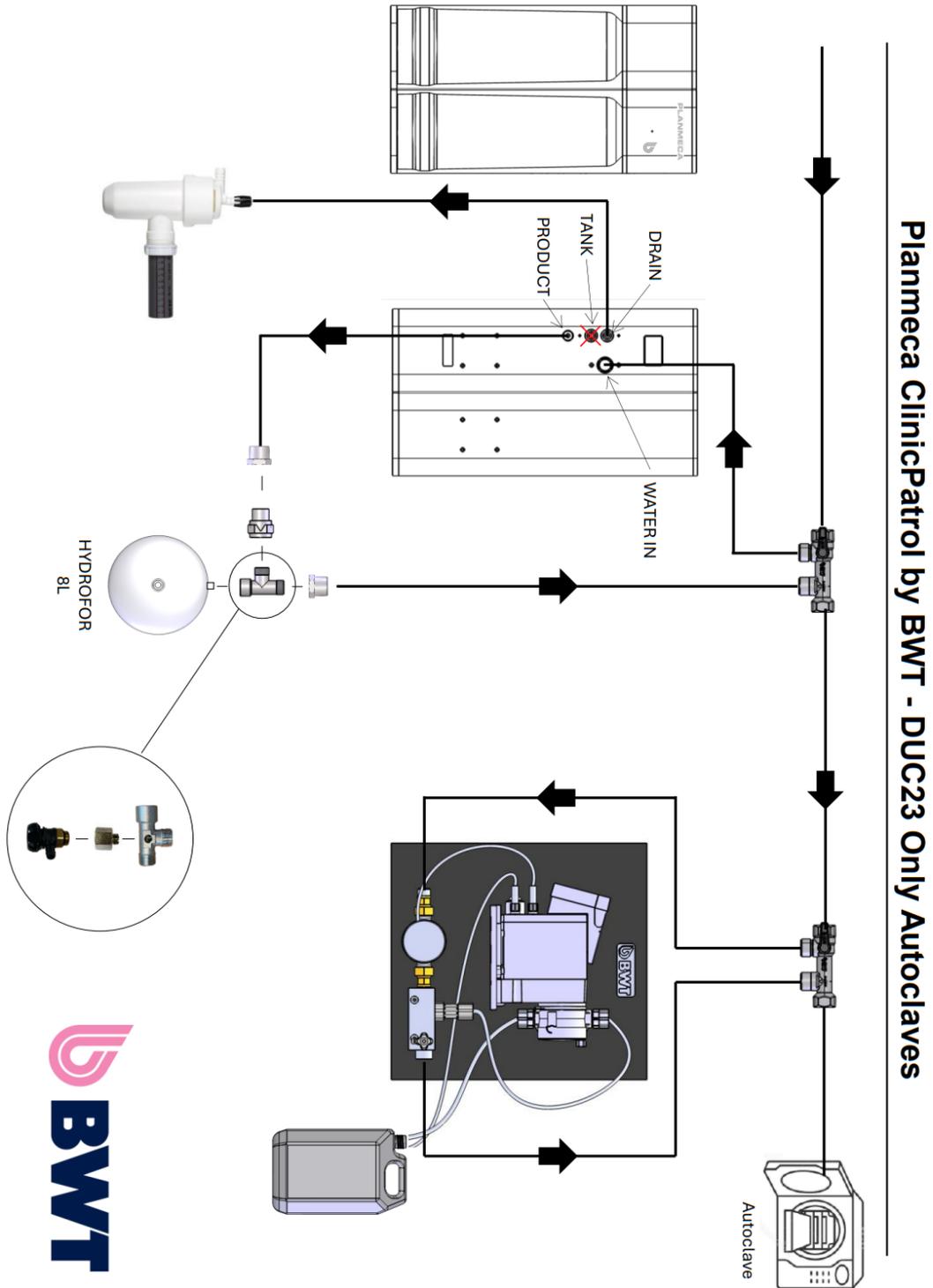
Insert the 230V plug (2) into a wall outlet.



All connections are now complete. The back of the unit should appear as shown below:



10 Installation overview for only autoclaves



11 Membrane and filter installation when installing the system only for autoclaves

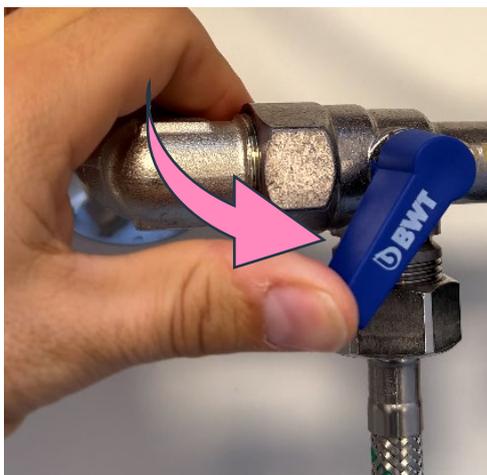
Install the filter (left side) and the membrane (right side) by tilting the unit slightly backward. Insert the filter or membrane into the unit and rotate it gently until it engages with the internal thread. Make sure it is securely tightened.



NOTE:

If the system is only required to supply water to autoclaves, the installation ends here.

Open the water by turning the handle slowly on the BWT Multiblock (19).



NOTE:

The following chapters only demonstrate the installation process if the system is to supply **both** units and autoclaves.

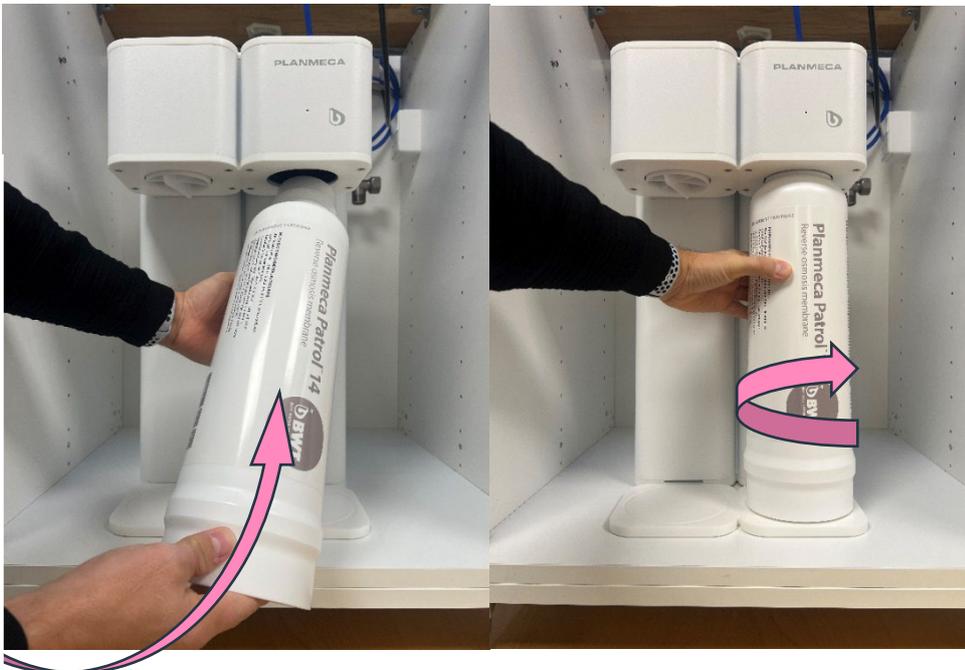
12 Blindcap & Membrane installation when installing the system for units and autoclaves

The following installation instructions are for when the system is to be installed for both units and autoclaves.

Install the Blindcap (21) (left side) as shown in the picture:



Install the membrane (right side) by tilting the unit slightly backward. Insert the membrane into the unit and rotate it gently until it engages with the internal thread. Make sure it is securely tightened.



13 Planmeca Patrol™ – Filter head installation

The filter for Autoclaves needs to be installed separately. After the BWT bypass, a tee (25) is needed for separating the treated water into water for the Unit and water routed to Planmeca Patrol™ 5 filter and Autoclaves.

Before the tee (25) can be connected to the BWT bypass, the ¾" x ½" reduction need to be connected to the BWT bypass.



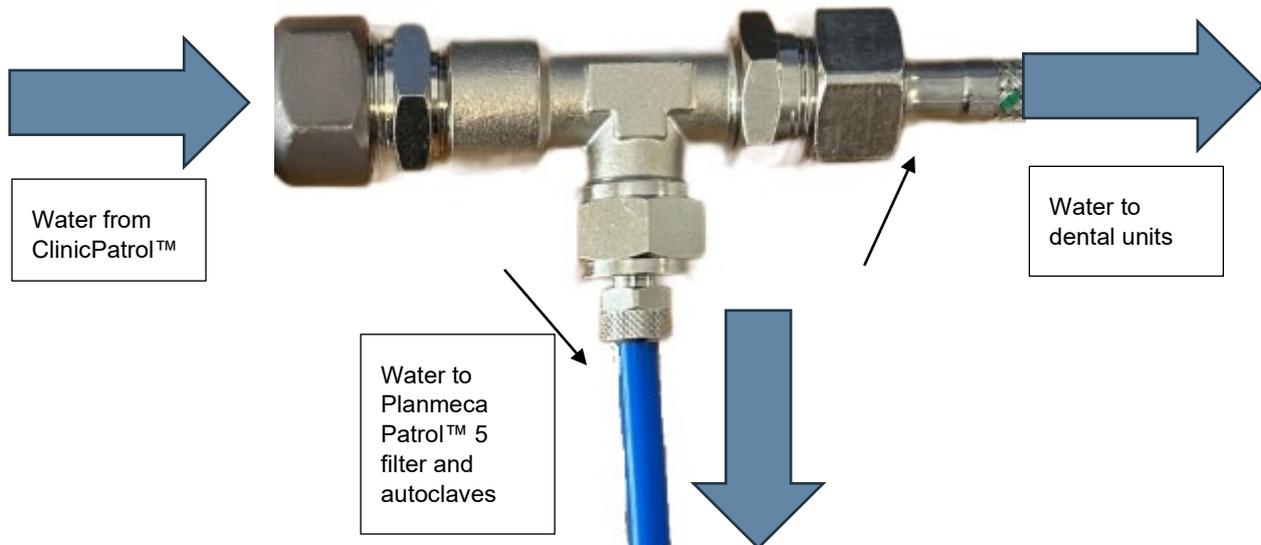
Now mount the tee (25) on to the $\frac{3}{4}$ " x $\frac{1}{2}$ " reduction (29).



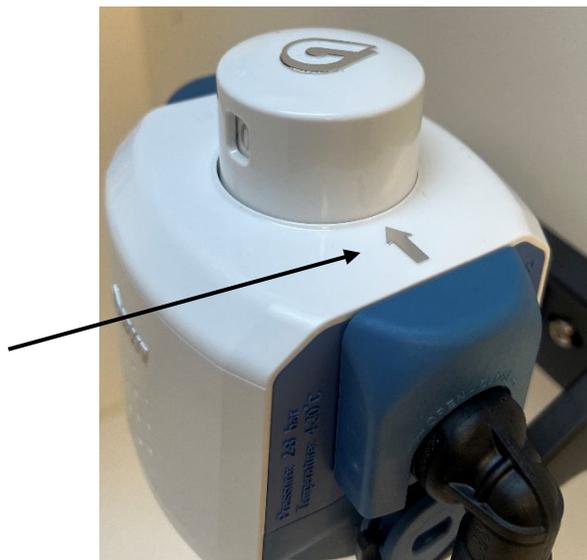
On the tee (25), mount a $\frac{3}{4}$ " x Ø8 mm reduction (30) on one side and a nipple coupling (28) on the other side.



With this setup, you can now connect the push-in hose (14) on one side and the SPX hose (13) on the other side. See picture below.

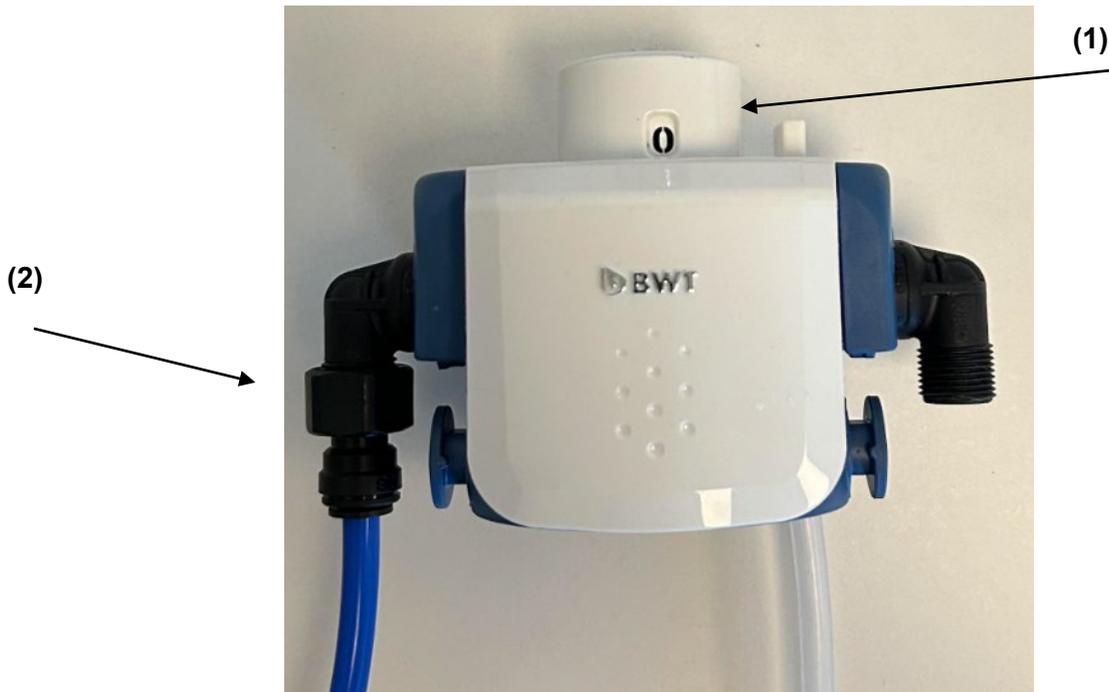


On top of the filter head is a flow arrow indicating the direction of water flow.

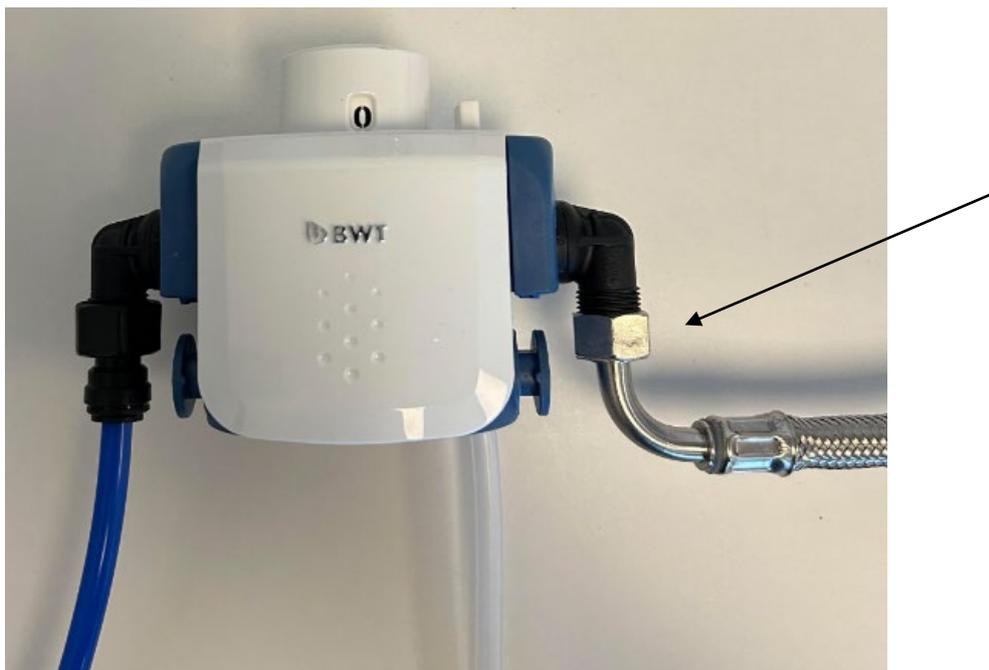


(1) Press down the bypass selector on top of the filter head to rotate it. Set it to '0'. When '0' appears in the window, the selector will click back into position.

(2) Mount the hose from the tee on the inlet as shown.



Connect a hose from the filter head outlet to the autoclaves' water inlet.



14 Startup

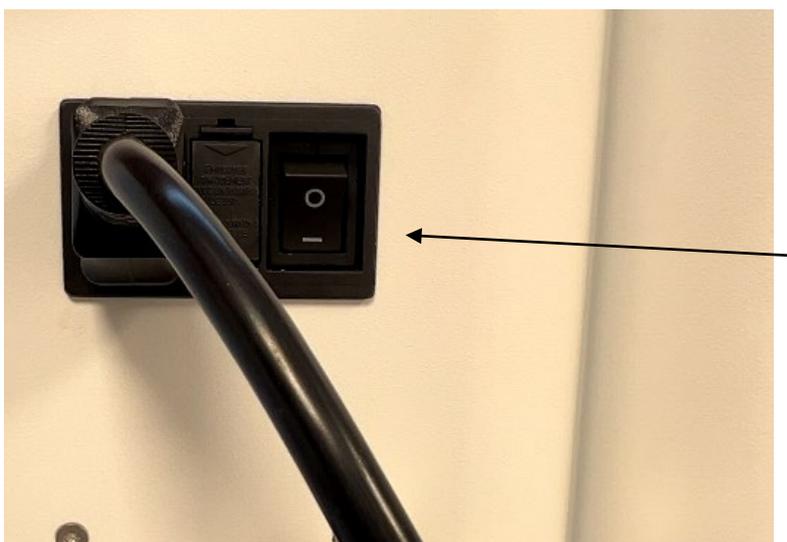
Now the Planmeca ClinicPatrol™ is ready to be started up.

Open the water by turning the handle slowly on the BWT Multiblock (19)



Check the entire installation for leaks before turning the unit on.

Click the power button next to the power inlet (A) on the back.



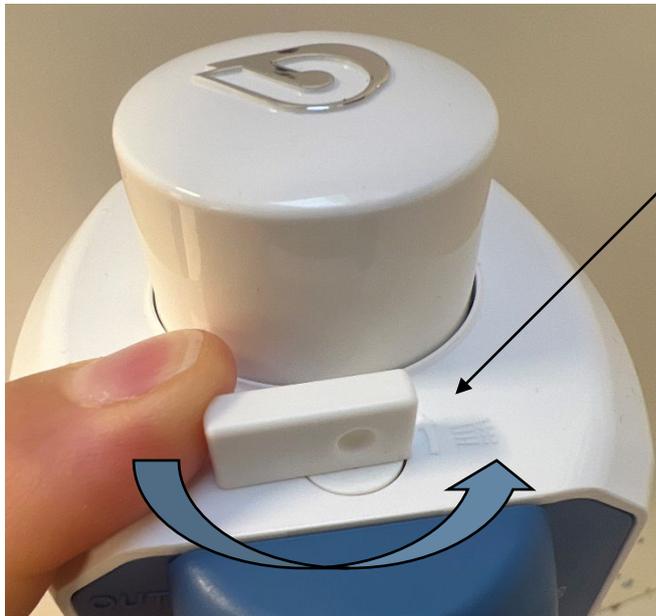
The Planmeca ClinicPatrol™ will make a beep and will now make a rinse and prepare itself for operation.

15 Planmeca Patrol™ 5 installation

Insert the filter in the filter head as shown



Once the filter is mounted in the filter head, it must be flushed. Turn the flush knob located next to the bypass selector.



The filter will start flushing out of the transparent hose at the bottom of the filter head.

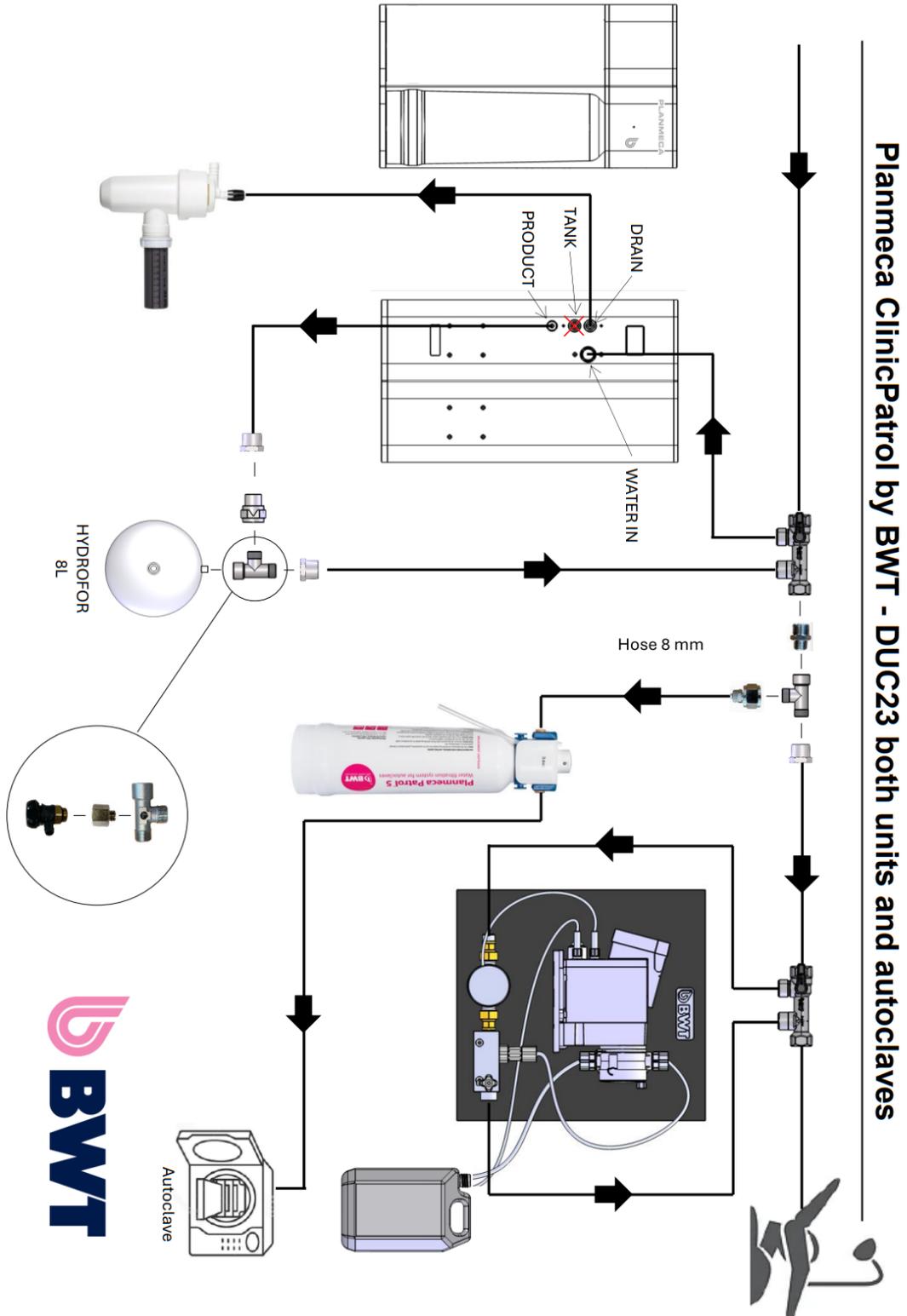


- Flush 2 litres for Patrol™ 5
- Flush 3.1 litres for Patrol™ 10

The filter can be installed either as a freestanding unit or wall-mounted using the included bracket.



16 Installation overview for both units and autoclaves



17 Final Check:

- Ensure all hoses and fittings are securely attached
- Confirm system pressure is correct
- Verify water flow to both autoclaves and dental units
- Check for leaks
- Flush filters as described
- Power up the system with the main switch (A)

Support:

For technical support or further installation help, please contact BWT Denmark at +45 43 600 500.