



Quick Start Guide WSU2plus



This Quick Start Guide contains only the information needed to put the instrument into operation. For a complete description, please refer to the complete operating instructions.



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1 Installation/Commissioning

1.1 Unpacking

The unit is delivered completely assembled on a pallet. After unpacking the device, it must be commissioned according to chapter 8.3.

The **Spectrum Cartridges** are not included in the scope of delivery of the WSU2plus.

The **Spectrum Cartridges** are packed individually in cardboard boxes.

1x Spectrum Pure Cartridge and 1x Spectrum UltraPure Cartridge are required for commissioning.

1.2 Installation



WARNING!**Device of protection class 1:**

To avoid an electric shock this device must be connected to an electrical power supply with a protective ground.



WARNING!

The mains plug must be easily accessible!



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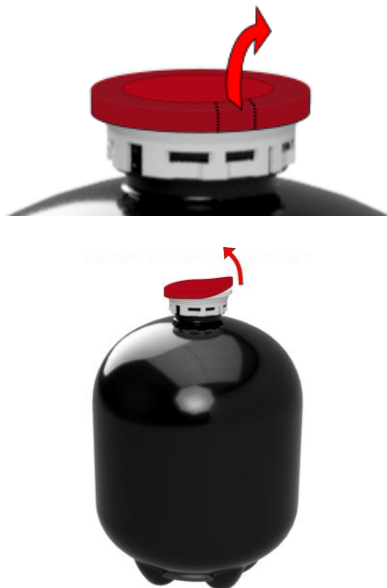
1.2.1 Connecting the Spectrum Cartridges

Attention:

The **Spectrum Quick Connector** with the black tube must be connected to the **Spectrum Pure Cartridge**.

The **Spectrum Quick Connector** with the red tube must be connected to the **Spectrum UltraPure Cartridge**.

Tear open the protective film where it is perforated and remove the protective cap from the Spectrum Cartridge.



Open the locking lever and remove the Spectrum Quick Connector from the bracket.



Push the Spectrum Quick Connector onto the Spectrum Cartridge as far as possible.



Close the locking lever

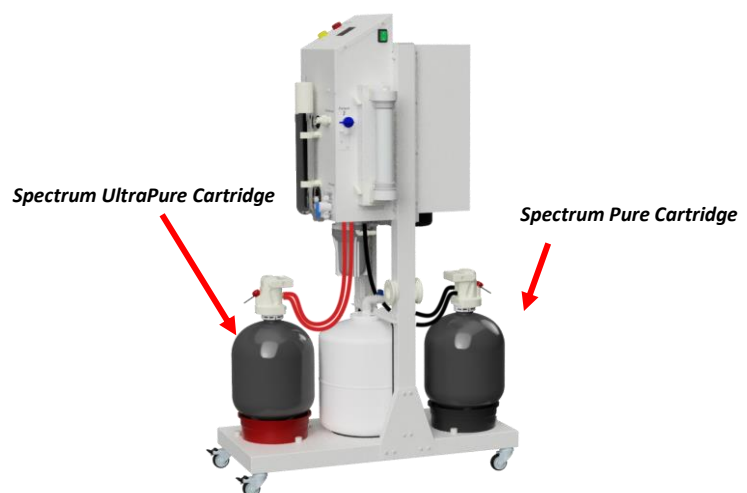


Place the Spectrum cartridges on the base plate.

The rings underneath the cartridges prevent them from slipping.

Place the Spectrum UltraPure cartridge (red marking) in front of the WSU2plus.

Place the Spectrum Pure Cartridge (black marking) behind the WSU2 plus.

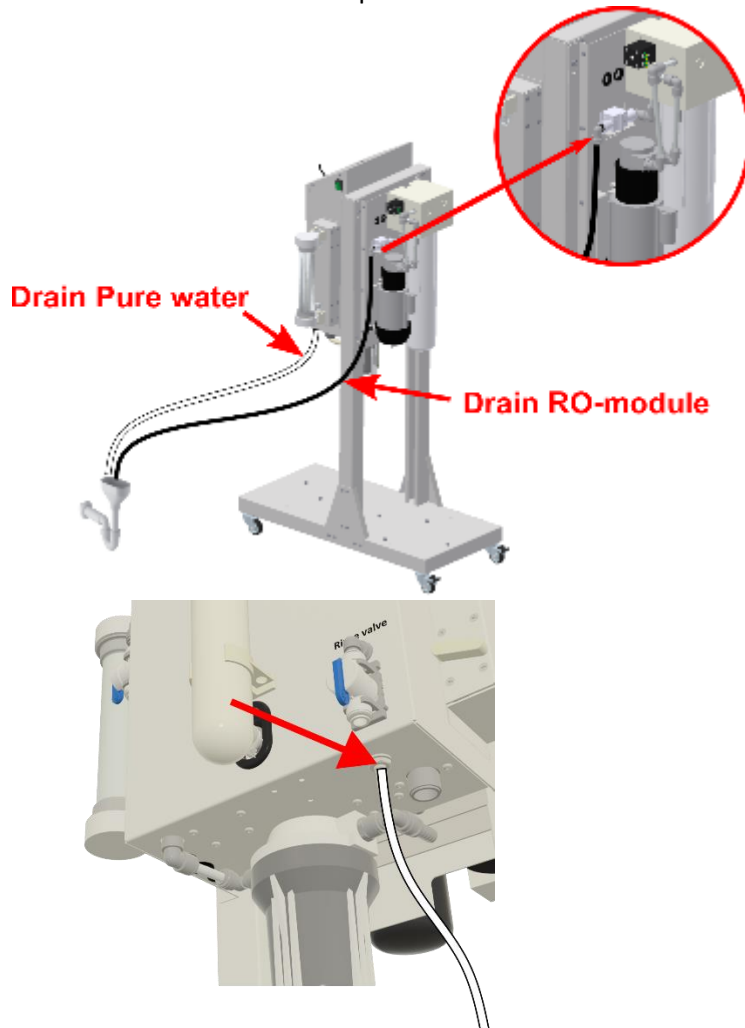




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1.2.2 Drain Connection

The WSU2plus has 2 drain hoses. Both hoses must be connected to the correct connection and attached so that it cannot slip out.



The optional available drain funnel can be used to securely fasten the drainage hoses.



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1.2.3 Connection to water and power supply

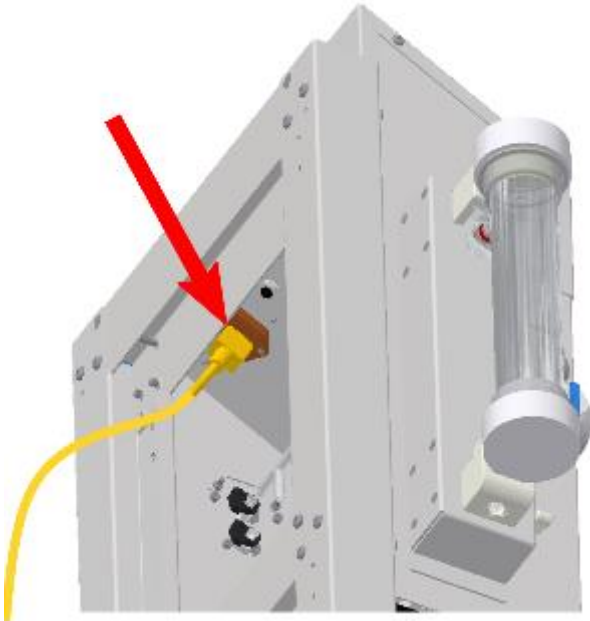
Water is supplied via a $\frac{3}{4}$ " connection on the underside.

The device is delivered with a 2.5 m long hose with a suitable angle connection and a separate connection with hose clamps. This hose can be used to connect the WSU2 to the water connection facing the building.

Make sure that all hose clamps are tightened!



The power is supplied via the mains socket on the back of the unit.





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1.3 Commissioning WSU2plus

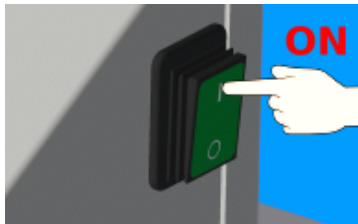
Install the unit as described in chapter 8.2.

Venting the device:

Open the water tap facing the device. Check that all drain hoses are connected to the drain.
Open the rinse valve completely and turn on the device.



Open the „Rinse Valve“ and turn on the device



A few minutes after the device is turned on for the first time, the high-pressure pump starts. As the pump draws in air bubbles during the rinsing process, the noise level increases slightly compared to normal operation.

After 5 minutes of operation, the **Spectrum Cartridge** can be vented (see description below).

During this operating mode, the unit must be rinsed for approx. 15 minutes until no more air bubbles escape the "Rinse Valve" connection.

At the end of the rinsing process, the sterile filters and the pure water tube must be vented and rinsed by opening the ball valves at extraction point 1 and 2 (at the end of the blue hose), allowing approx. 1 litre to flow into a container.

Remove the protective cap at the end of the blue hose.



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1.3.1 Venting the Spectrum Cartridge:

To vent both **Spectrum cartridges**, close all extraction and flushing valves and wait until the pressure is at least 1.5 bar as displayed on the pressure gauge.

Open the locking lever, then press the red venting button until no more air flows out. Close the locking lever again.

If there is still air in the resin container, the procedure should be repeated.

Open the locking lever, then press the red venting button until no more air flows out.



Close the locking lever again.
If there is still air in the resin container, the procedure should be repeated.



1.3.2 Connecting the ultrapure water output

The water connection of the analysing device is connected to output 2 (on the right side) of the WSU2 plus.



A blue hose and an adapter to 3/4" male thread is included in the scope of supply and should be used for the connection of the device to the analysing device.

To prevent microbacterial growth inside the pipe connecting the WSU2 to the analyser, the following aspects need to be considered:

- The tubing must be as short as possible
- Use as few adapter pieces as possible
- Use the supplied hose, if possible. Otherwise, choose a hose that has a smooth inner surface. If possible, do not use a silicone hose.
- The hose should be replaced regularly
- The width should be as small as possible, as a higher flow rate reduces bacterial growth.