

Operating instructions **PUROTAP® easy II**

Installation
Function
Operation
Maintenance



ELYSATOR 
engineering water

swiss made 

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1. Safety instructions



Not drinking water



Maximum 4 bar pressure up to 60 °C



Maximum 6 bar pressure up to 25 °C



Flow rate max. 15 l/min

2. Function

The PUROTAP® easy II treats water for technical applications in closed systems according to the latest standards (VDI 2035, SWKI BT 102--01, Ö-Norm H5195). It demineralises water using a mixing bed ion exchange resin. The device has an integral meter that constantly measures and displays fill volume, throughput and water quality. There is no need for an external power supply and no chemicals are released into the water. The device is suitable both for filling with demineralised water and for subsequent demineralisation in circulation.

3. Standard delivery

- PUROTAP® easy II device
- Label "demineralised"
- Operating instructions

Recycling & Resin quality

We recycle for you!

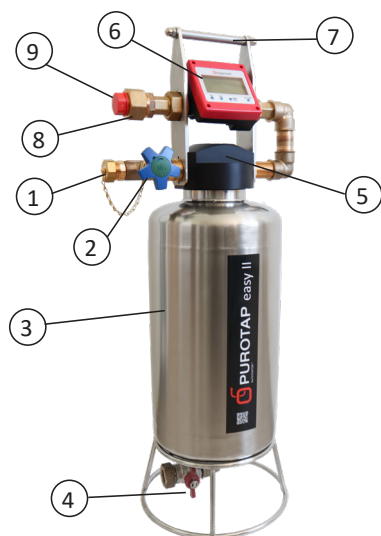


Certified quality resin



4. Specification

4.1. Device description



1. Inlet $\frac{3}{4}$ " with sealing cap
2. Shut-off valve
3. Resin canister
4. Drain valve with round mesh filter
5. Head with immersion pipe
6. PUROTAP® LFM-20 combined meter
7. Handle
8. Fine mesh filter
9. Outlet $\frac{3}{4}$ "

4.2. Dimensions

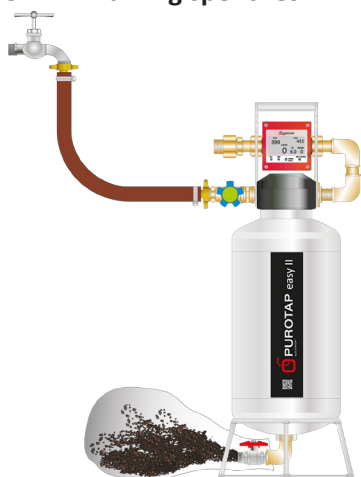
Dimensions	PUROTAP® easy II
Height	74.0 cm
Width	32.5 cm
Depth	25.0 cm
Weight	11.0 kg (empty weight)

4.3. Performance data

	PUROTAP® easy II
Max. throughput	15 l/min
Pmax - Tmax	6 bar up to 25 °C
Pmax - Tmax	4 bar up to 60 °C

5. Operation

5.1.1. Draining spent resin



1. Unscrew hexagonal cap with round mesh filter on drain valve (4)
2. Fix collection bag to drain
3. Open drain valve
4. Open shut-off valve (2)
5. Flush until no more resin is left in the canister
6. Remove collection bag from the drain and allow to drip
7. Close drain valve and screw round mesh filter with hexagonal cap back on

5.1.2. Filling the resin canister



1. Close drain valve (4).
2. Open resin bag containing fresh PUROTAP® HF 12.5l highpower or

PUROTAP® HF 12.5l nexion resin by cutting off one corner and fill the canister (3) with resin.

3. Clean the threads with water.
4. Insert the head with the immersion pipe (5) centrally aligned into the canister, and screw it down by hand (floating resin will make centring the pipe much easier). The device is ready for use.



- The drain valve must not be connected to the water-filled system!
- Ensure that any spilled resin is cleaned up thoroughly. Risk of slipping!
- Every time the resin is replaced, check the mesh on the immersion pipe for damage and make sure the immersion pipe is screwed on tightly.

5.2. Connection

Connect the device to the raw water at the inlet (1) using an adequately sized hose. Connect the outlet (9) to the system to be filled, also using a hose. The device is fitted with a non-return valve that prevents any throughput in the wrong direction.



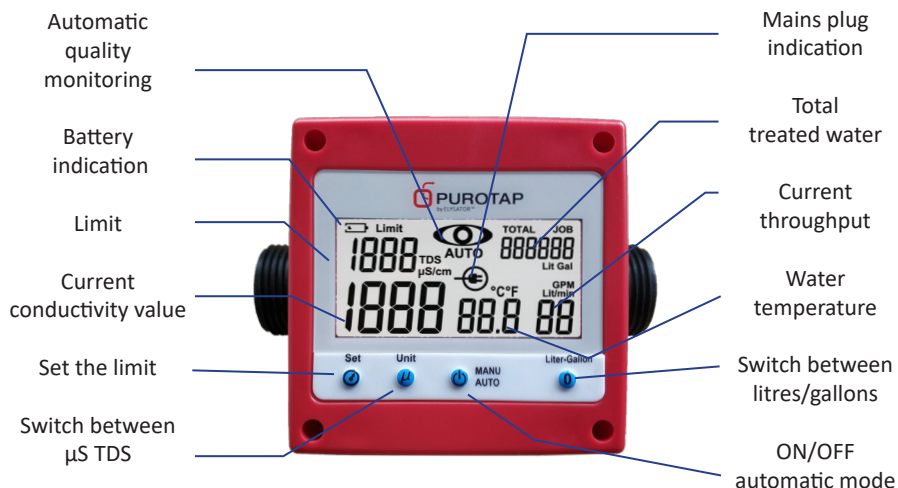
- Where EN 1717 is applicable (Germany), a pipe separator must also be installed upstream of the filling station. Observe the water utilities' regulations.
- PUROTAP® easy II may only be pressurised for the duration of the filling process. Permanent connection under pressure is not permitted.

5.3. Commissioning

Prior to commissioning, close the drain valve (4) on the resin canister. Open the shut-off valve (2). Throughput may not exceed 15 l/min and can be monitored on the combined meter.

5.4. Combined meter

The combined meter measures the fill water quality and the throughput (l/min and total throughput).



Set key

Each time the set key is pressed, the limit is increased by 10 µS/cm or 6 TDS. Hold the key for 3 seconds to reset the limit to zero. Programming the limit ensures that a warning is issued when the ion exchange resin is spent. If the set limit is exceeded, the backlight flashes red and an acoustic alarm sounds. In addition, the floating contact is switched over (only when using the optional power supply unit).

Unit key

Use this key at any time to switch between electrical conductivity (µS/cm) and TDS (total dissolved solids) as well as between °C and °F. The first two are units of measurement for the amount of minerals dissolved in the water. Most European component manufacturers use the unit of measurement µS/cm (microsiemens per centimetre). Water hardness at the output of the refill device can be determined using the following rule of thumb: 1 °fH

corresponds to approx. 20 $\mu\text{S}/\text{cm}$ or 1 $^{\circ}\text{dH}$ corresponds to approx. 35 $\mu\text{S}/\text{cm}$.
 Sequence of units: $\mu\text{S}/\text{cm}$ -- $^{\circ}\text{C}$ | $\mu\text{S}/\text{cm}$ -- $^{\circ}\text{F}$ | TDS -- $^{\circ}\text{C}$ | TDS -- $^{\circ}\text{F}$

ON/OFF key (MANU/AUTO)

Press the  key once to switch on the combined meter. The water quality is measured for 10 seconds and compared to the set limit. During measuring, the screen backlighting is blue and the conductivity value is displayed. If the measured value is below the set limit, everything is OK. If the measured value exceeds the limit, the display flashes red, an alarm signal sounds and the floating contact switches over (only when using the optional power supply unit). The current throughput and the water temperature, as well as the total water throughput, are continuously displayed. Press the key for approx. 3 seconds to switch off the device. If the combined meter is switched on and measures no throughput for about one hour, it automatically switches off. During operation with the optional power supply unit, the combined meter does not automatically switch off and cannot be switched off manually. If the combined meter has switched off automatically, it will automatically restart once the throughput (> 2 l/min) resumes. If the combined meter is switched off using the ON/OFF key, it will not restart automatically.

Auto mode

Press the  key twice in quick succession to start automatic monitoring by the combined meter. The  symbol is shown to indicate that monitoring has been enabled. In auto mode, the meter only takes measurements when water is actually passing over it. If the throughput is interrupted, the meter continues to show the last captured value. When a throughput is present, the meter takes a new reading of the conductivity value after every 10 litres and displays it. If the limit is exceeded in two successive measurements, the display continuously flashes red and an acoustic alarm sounds. In addition, the floating contact is switched over. If the  key is pressed for a third time, the meter exits auto mode. Auto mode is recommended for operation with an automatic topping up device.

Litre-gallon key

Briefly press this key once to select the throughput indication in litres per minute (l/min) or gallons per minute (GPM). Press the key for approx. 3 seconds to reset the total throughput volume ("JOB") to 0. We recommend resetting the "JOB" to 0 after every resin change so that the residual capacity of the ion exchange resin can be estimated and compared. Press the key for 8 seconds to reset the "TOTAL" litres value to 0.

6. Maintenance

6.1. Changing the batteries

If the battery symbol () is displayed, the batteries must be replaced. Undo the 4 screws on the red cover, lift off the cover and insert 3 new AAA (LR03) 1.5 V batteries. Make sure the cover seal is seated properly. Refit the cover and secure with the screws. Check the device is working correctly.



For detailed information about the combined meter, see the PUROTAP® LFM-20 product page on our website.

6.2. Fine mesh filter

Fine mesh filter (8) requires cleaning once a year or when throughput is inadequate. This is done by undoing the coupling at the outlet (9). The fine mesh filter can then be removed and cleaned with water.

6.3. Draining

To reduce the weight of the device for transportation and avoid frost damage in winter, the water must be drained after use. Draining is carried out by opening the drain valve (9) and shut-off valve (2).



- To avoid frost damage, the device must be drained if temperatures are below freezing point!

7. Spare parts

Item no.	Designation
100 967	PUROTAP® easy II, complete immersion pipe
100 620	PUROTAP® easy II, complete head
102 278	PUROTAP® LFM-20, combined meter
100 255	PUROTAP® easy II, O-ring for head
100 750	PUROTAP® label, heating system demineralised
100 280	PUROTAP® LFM-20, device batteries (3x)
100 538	PUROTAP® Woven bag, 12.5 l

8. Consumables

Item no.	Designation
100 922	PUROTAP® HF 12.5 l highpower
101 651	PUROTAP® HF 12.5 l nexion