

PURION DVGW Certification, Starter active

for 110 – 240 V

50 – 60 Hz

DESCRIPTION

The PURION DVGW Zert active ESM consolidates all essential components for professional drinking water treatment into a ready-to-connect, pre-assembled system. Mounted on a robust aluminum profile frame, it features a high-performance Grundfos JP 4-54 PT domestic waterworks, a double Big Blue pre-filter equipped with a 50 µm HEPA filter and an activated carbon filter, as well as a DVGW-certified PURION 106 W UVC disinfection reactor. This system accommodates a flow rate of up to 3,400 l/h, rendering it suitable for single-family homes, multi-family dwellings, and demanding private water supplies. To ensure optimal operational reliability, the system is further enhanced with a 40 µm backwashable pre-filter, a pressure reducer, shut-off valves, an automatically closing solenoid valve, and a sampling valve positioned directly behind the UVC unit. This configuration facilitates convenient water sampling at any time and ensures dependable monitoring of water quality. The integrated, DVGW-certified 106 W UVC system adheres to the highest standards for drinking water disinfection and incorporates continuous UVC sensor monitoring (OPD). The built-in sensor consistently measures the actual UVC output, facilitating seamless oversight of the disinfection efficacy. Should the UVC intensity dip below the permissible threshold, the normally closed solenoid valve automatically halts the water flow. This effectively prevents inadequately disinfected water from entering the drinking water network. The outcome is consistently safe, standards-compliant, and fully automated water disinfection at the highest level.

POWER SUPPLY

110 – 240 V AC wide voltage power source

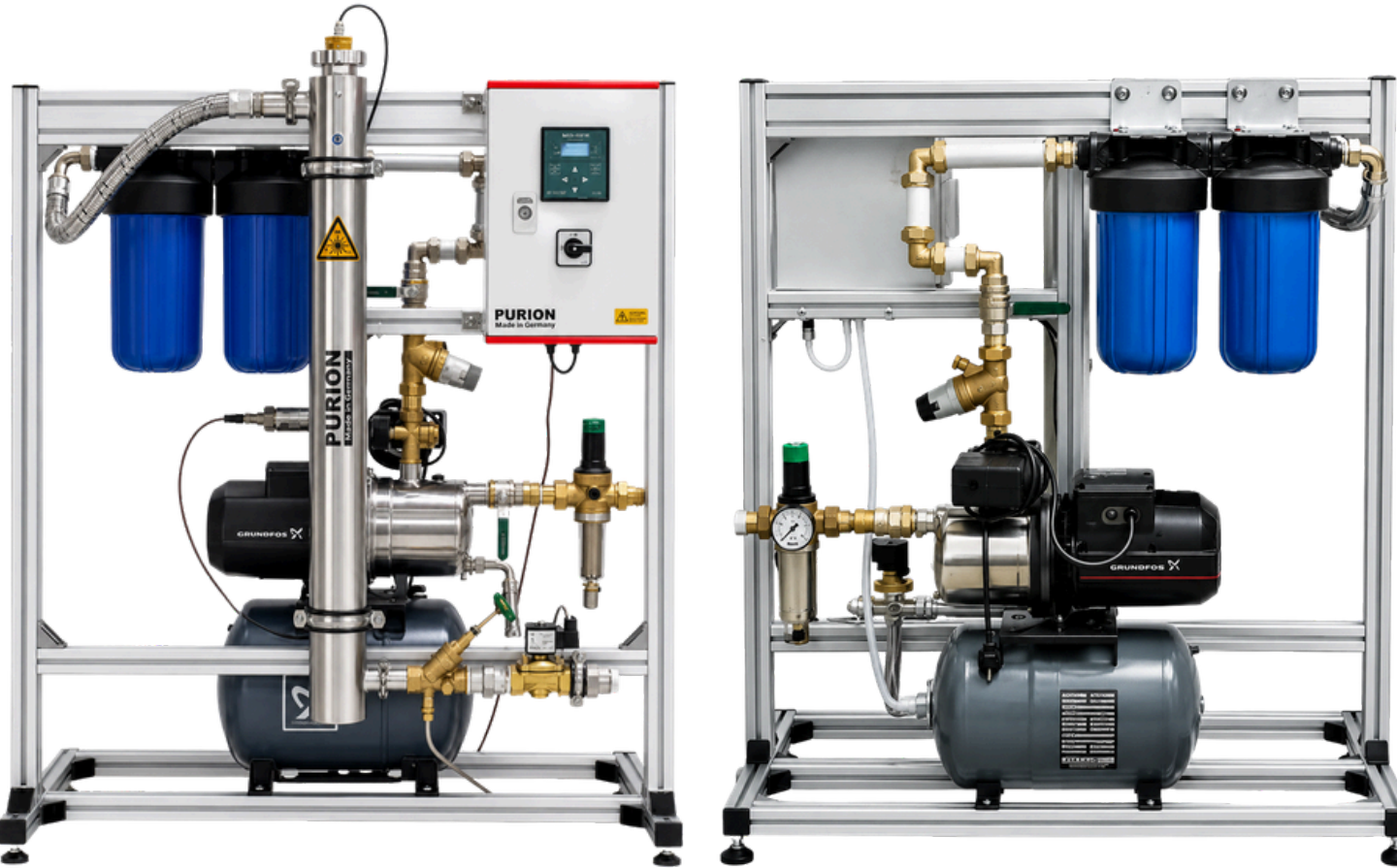


CERTIFICATES

DVGW Certification: DIN 19294:2020
ÖVGW Certificate: M 5873-1:2020-01-01

Scope of delivery: Pre-assembled on an aluminum frame

- UV Disinfection System PURION DVGW Certified Active ESM (106W)
- Grundfos domestic waterworks JP 4-54 PT
 - Double BigBlue pre-filter (50-micron suspended particles + activated carbon)
 - Shutoff valves, pressure regulators, sampling valves
 - normally closed solenoid valve
 - User guide



Technical specifications

Manufacturer	PURION GmbH
Type	DVGW Cert. Starter active
UVC treatment capacity	3400 l/h potable water
UVC-Transmission	96% T1 cm
Water temperature	2°C to 90°C
Reactor	Stainless steel 1.4571
External thread coupling	1" AT
seal	FPM
Dimensions (L x W x H in mm)	980 x 530 x 1300
Pump classification	Grundfos JP 5-48 PT
Weight	65 kg
Radiator operational duration	10.000h
Number of illuminations	1
Dose	400J/m²
Maximum temperature and operating pressure	90°C – 5,5 bar
Enclosure protection rating	IP 54
Electrical connectivity	110 – 240V AC 50Hz/60Hz
Performance	106 W
Security	10A

