

Series D

Reverse-Osmosis Systems with integrated ion-exchange cartridge for cost-effective on-site production of demineralized water

System benefits at a glance:

- Cost-effective and safe on-site production of demineralized water
- Ideally suited for the automatic supply of sterilizers with an increased demand for demineralized water at all degrees of feed water hardness
- Including faucet (white)
- Including storage tank 12 liters (gross volume)
- Including membrane service valve for manual permeate control
- Operates only with feed water pressure (no electricity required)
- **eco**-models with water-saving technology



Saving water with the **eco-module**:

- The **eco-module** maintains a constant ratio of permeate to waste-water throughout the whole storage tank filling process
- This allows waste-water savings up to 70% compared to conventional water purification systems with reverse osmosis technology
- For clarification: with a demand of 20 liters demineralized water per day the **eco-module** will be able to save approx. 30.000 liters waste-water per year
- Additional benefits of the **eco-module**: Higher permeate purity, faster filling of the storage tank and additionally lower strain on pre-filters, membrane and ion-exchange cartridges

Additional system benefits:

- Reverse-osmosis technology is able to remove bacteria, viruses, chlorine, hardness components, heavy metals, nitrate, medical residue, pesticides etc. reliable and ecological without using any chemicals
- All used materials, pressure tubing and components are food safe
- Customized adaptations and versions are possible
- Long service life of all cartridges enables a low service effort
- Incl. detailed manual (installation, operation, disinfection, service and trouble-shooting guide)

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TECHNICAL DATA

VEWAMED® WATER-PURIFICATION-SYSTEM	
Production capacity:	VEWAMED D50 and D50eco: approx. 8 liters/hour (190 liters/day) (Specifications are standard values at a feed water pressure of 3,4 bar and a water temperature of 25°C without tank backpressure)
Integrated service valve:	Enables a conductivity measurement of the permeate directly after the membrane and before the ion-exchange cartridge, additionally it enables a simple pressure release for membrane- and filter cartridge change
Filtration stages:	Stage 1: Carbon block filter cartridge VCB5-10 with 5 µm nominal filtration Stage 2: Sediment filter cartridge VSF1-10 with 1 µm nominal filtration Stage 3: TFC-membrane VDF50 with a rejection rate of approx. 95% Stage 4: High capacity ion-exchange cartridge VIO3-10
Service life ion-exchange cartridges:	Approx. 260 days at 5 liters of demineralized water per day, tap water at 14°dH and permeate at 40 µS/cm (extract from service life chart)
Service life pre-filters:	12 months (depending on feed water quality)
Service life membrane:	Approx. 5 years (depending on feed water quality or rather water hardness)
Efficiency (system recovery):	Optimally set to approx. 1:3 (ratio of permeate to waste-water)
Tube connectors:	John Guest push-fit connectors
Tubing:	John Guest
Additional system components:	High quality components from leading brand manufacturers
System bracket:	Aluminum (powder-coated white)
Service life filter housings:	10 years (color: white)
Certified system quality:	System comes with a unique serial number and test report
System configuration:	Optimal system configuration enables a fast and easy service
User manual:	Installation, operation, disinfection, service and trouble-shooting guide
System dimensions (w x h x d):	D50: 39,5 x 42,5 x 15,5 cm D50eco: 39,5 x 50,0 x 15,5 cm
Storage tank 12 liters (Ø x h):	24,5 x 40,5 cm (incl. tank shut-off valve)
Storage tank 19 liters (Ø x h):	27,5 x 44,0 cm (incl. tank shut-off valve); optional accessory
Storage tank 35 liters (Ø x h):	32,0 x 52,0 cm (incl. tank shut-off valve); optional accessory
System weight D50:	Approx. 12,0 kg (incl. packaging)
System weight D50eco:	Approx. 13,0 kg (incl. packaging)
Scope of delivery:	System, storage tank 12 liters, faucet, installation-kit and user manual
OPERATING CONDITIONS	
Feed water pressure:	2,8 to 7,0 bar
Feed water hardness range:	All degrees of hardness: 1 (soft) to 4 (very hard)
Feed water temperature:	4,0°C to 38,0°C
MODELS	
VEWAMED Series D:	D50 / 11422 D50eco / 11423
CONSUMABLES	
VEWAMED D50 and D50eco:	Filterset WS1 / 20311 Membrane VDF50 / 20161
OPTIONAL ACCESSORIES	
Conductivity controller:	Conductivity controller HCEC / 30106
Water shut-off valve:	Water shut-off valve LD1 / 30133
Pressure regulator:	Pressure regulator WPR3 / 30146
Stainless steel faucet:	Faucet stainless steel SE4QSS/ 50103
Additional accessories, spare parts and disinfectant:	Storage tanks, pressure regulators, conductivity controllers, water shut-off valves, faucets, ion-exchange cartridges, etc. (look at VEWAMED® price list)

VEWAMED®
Water-Purification-Systems

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