



[m] VEP 300/EXOVEP

Refill Module for Heating and Cooling Circuits

Description

The [m] EXOVEP refill module includes the [m] VEP 300 as well as an exoskeleton for secure wall mounting. The mounting bracket ensures a stable and space-saving installation, protects the cartridge from damage, and enables quick and convenient access during cartridge replacement. This keeps the installation neat and easily accessible at all times. The supplied adapters for reinforcing the cartridge threads ensure a durable and secure connection to the pipe network.

The disposable [m] VEP 300 cartridge is designed for the full desalination and demineralization of filling and make-up water in closed heating and cooling circuits using a flow-through process. Water treatment is carried out using a high-quality mixed-bed resin based on ion exchange technology and complies with the requirements of VDI 2035 (low-salt operation), SWKI BT 102-01, ÖNORM H 5195-1, and VDI Guideline 6044. The premium resin used in an optimized mixing ratio supports the self-alkalization of the water immediately after filling, ensuring long-term corrosion protection and enabling low-salt system operation without the additional use of chemical inhibitors.

An integrated color indicator within the mixed-bed resin reliably displays the exhaustion status of the cartridge and indicates when replacement is required. The cartridge is considered exhausted once the ion exchange resin has completely changed color from blue-brown to brown. Overall, the disposable cartridge provides an ideal and cost-effective solution for filling and refilling heating water systems and can be conveniently disposed of with normal household waste after use.



Design & Dimensions

Item No.	Product	Description	Weight	Length in mm	Depth in mm
888132	[m] VEP 300	Demineralization cartridge	2,1 kg	450	80
888137	[m] EXOVEP	Refill module (VEP 300 incl. exoskeleton)	2,4 kg	485	94

Technical Data

Application

The demineralization cartridge is designed for the treatment of raw water used for make-up water supply in heating and cooling circuits. It is intended for small to medium water volumes and enables low-salt system operation. The produced water quality complies with the requirements of VDI 2035, VDI 6044, SWKI guidelines, and ÖNORM H 5195-1.

Operating Principle

The water flows evenly through the cartridge from one side to the other and is desalinated by means of ion exchange technology. An integrated color indicator displays the exhaustion status of the resin and signals cartridge replacement once the conductivity exceeds 100 µS/cm. The cartridge is considered exhausted once the resin has completely changed color from blue-brown to brown.

Max. Flow Rate

5 liters/min at an inlet pressure of 3–4 bar

Connection Thread

DN 20 3/4" male thread

Max. Temperature

60 °C

Max. Filling Pressure

6 bar

Capacity

3000 liters at 1°dH / 300 liters at 10°dH
5340 liters at 1°fH / 534 liters at 10°fH