

Veolia EDI Units

MK-3 & MK-3Pharm Stacks

Complete Electrodionization Systems for High-Purity Water Production

SECTION 1 — OVERVIEW

Veolia Electrodionization (EDI) units, as distributed by Purecowater (purecowater.com), are complete, skid-mounted systems designed for continuous production of high-purity water without the need for chemical regeneration. These systems integrate Veolia's E-Cell MK-3 stacks, which utilize a proven, plate-and-frame design with ion-exchange membranes and resin to achieve consistent deionization. The MK-3Pharm variant is specifically engineered for pharmaceutical and biotech applications, meeting the stringent water quality standards of USP and EP monographs. Standard flow configurations range from small-scale units to high-capacity installations, with resistivity output typically exceeding 18 megohm-centimeters at 25 degrees Celsius. Each skid includes integrated controls, monitoring instrumentation, and safety interlocks for reliable, unattended operation. The chemical-free process eliminates hazardous waste handling and reduces operational costs compared to mixed-bed ion exchange. Units are factory-tested and pre-configured for easy installation, with options for remote monitoring and data logging. The MK-3 stack design ensures low energy consumption and long service life, making these EDI systems a sustainable choice for critical water purification applications.

SECTION 2 — APPLICATIONS

- Power generation: boiler feedwater and steam cycle makeup water
- Pharmaceuticals and biotech: USP purified water and WFI pretreatment
- Microelectronics: rinse water for wafer and component manufacturing
- Semiconductors: ultrapure water for fabrication processes
- General industrial high-purity water: chemical processing, laboratories, and food and beverage production

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- LG Membranes
- Fil-trek
- WTS
- Engineered Solutions

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expertise. Contact us for pricing,
sizing & availability.**

Product Specifications

Manufacturer	Veolia Water Technologies
Stack	E-Cell MK-3 and MK-3Pharm
Operation	Continuous, chemical-free
Pharm Grade	MK-3Pharm meets USP/EP standards
Output	Resistivity to 18 MΩ·cm achievable
Feed	Requires pre-treated RO permeate
Industries	Power, pharma, semiconductor, industrial
Distributor	Purecowater — info@purecowater.com

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