

Veolia ZCore Depth Filters

High-Flow Cartridge Filtration

ZCore & High Flow Z Depth Filter Cartridges for Industrial Water Treatment

SECTION 1 — OVERVIEW

Veolia ZCore and High Flow Z depth filter cartridges, distributed by Purecowater (purecowater.com), are engineered for high-performance pre-filtration in demanding water treatment systems. The ZCore series utilizes a graded density design, where the outer layers capture larger particles and inner layers trap finer contaminants, maximizing dirt-holding capacity and service life. The High Flow Z variant is specifically designed for high-flow applications, reducing the number of cartridges required per housing by up to 50% compared to traditional 2.5-inch diameter cartridges, thereby lowering capital and operational costs. Both cartridge types are available in standard micron ratings from 1 to 100 microns, with flow rates per 40-inch cartridge reaching up to 40 gallons per minute (GPM) for the High Flow Z. Construction materials include polypropylene media and cores, with EPDM or Buna-N gaskets, ensuring broad chemical compatibility. They are compatible with standard 2.5-inch and 4.5-inch diameter housings, as well as high-flow housings. These cartridges are commonly deployed as pre-filtration before reverse osmosis (RO) membranes, effectively reducing silt density index (SDI) and protecting downstream equipment from fouling.

SECTION 2 — APPLICATIONS

- RO pre-filtration to reduce silt density index (SDI) and protect membranes
- Process water treatment in industrial manufacturing and chemical processing
- Industrial water systems including cooling towers and boiler feed water
- High-flow filtration applications requiring fewer cartridges and lower housing costs
- Reduction of pressure drop in pre-treatment trains, improving overall system efficiency

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sizing & availability.**

Product Specifications

Manufacturer	Veolia Water Technologies
Series	ZCore and High Flow Z
Design	Graded density depth filtration
Advantage	High-flow — fewer cartridges per housing
Micron Ratings	1, 5, 10, 25 micron
Use	RO pre-filtration, process water
Compatibility	Standard industrial cartridge housings
Distributor	Purecowater — info@purecowater.com

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