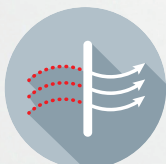


APP high-pressure pumps with ceramics: **Robust energy efficiency** for demanding membrane technologies



**Pre-filtration
lowered to
5 μ nominal**



**Longer
service
intervals**



**Lower OPEX,
more uptime**



**Market-leading
energy efficiency
up to 92%**



**Field-proven
reliability**

Unmatched energy-efficient for membrane-based industrial wastewater treatment

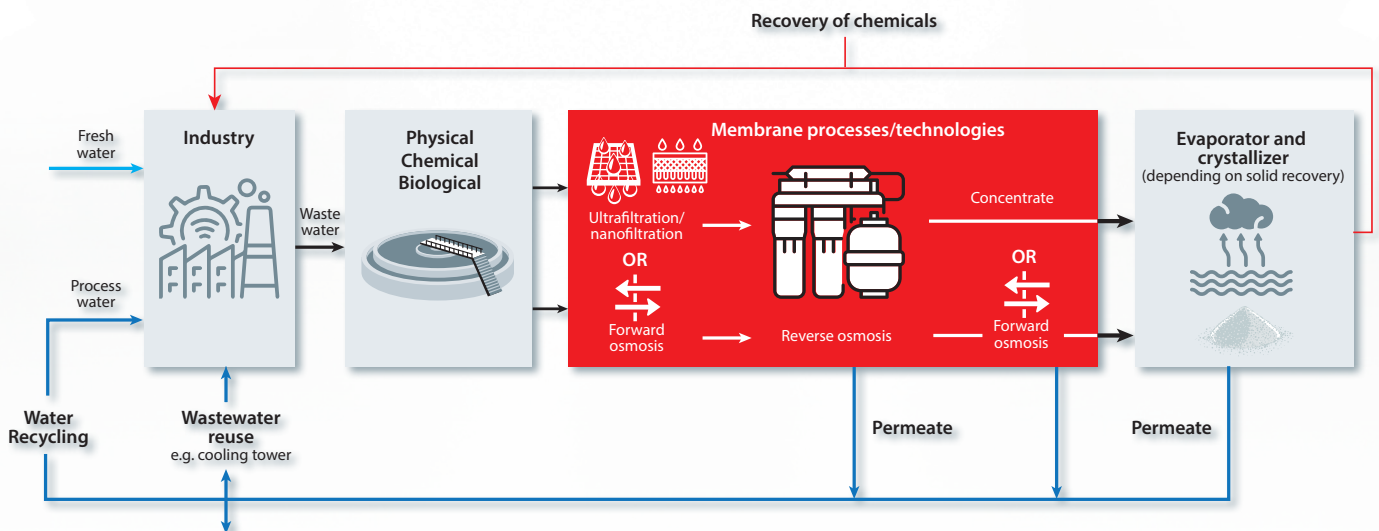
Studies show that zero liquid discharge's overall energy consumption can be reduced by up to 75% by adding reverse osmosis pre-treatment to traditional thermal processes.

The new Danfoss APP pump with ceramics is particularly well-suited for such treatments. Its unparalleled efficiency rates of up to 92% reduce OPEX and emissions significantly compared to other high-pressure pump technologies.

Moreover, this efficiency remains the same regardless of varying pressure rates up to 120 bar/1,740 psi.

With wetted parts reinforced with ceramics and other advanced materials, the pump's reduced particle sensitivity makes it even more robust while building on the APP's long field-proven history of simple maintenance and long service intervals.

Parameters	APP with ceramics
Pressure range: Max outlet pressure	10 – 124 barg 145 – 1,800 psig
Inlet pressure, cont.	2 – 5 barg 29 – 72.5 psig
Flow range	13 – 38 m ³ /h 57 / 167 gpm
Speed	700 – 1,500 rpm



Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.