Plate heat exchanger

Port filter

Application

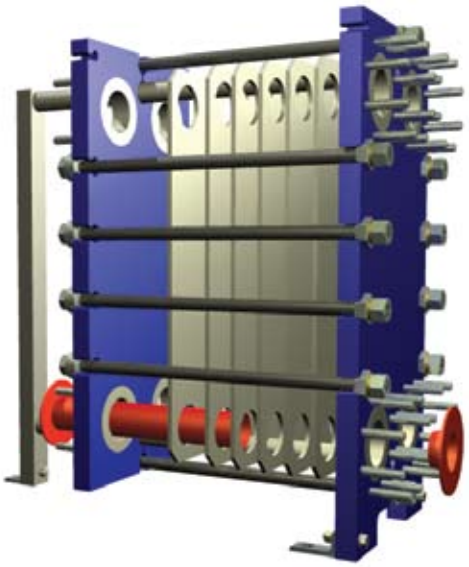
The Alfa Laval port filter is used to ensure thermal efficiency of the heat exchanger by preventing foreign objects from entering and causing clogging of the unit. The filter is designed to operate in conditions involving sea water, process water, cooling tower water or any kind of water containing particles with potential risk of disrupting the performance of the system.

Design

The filter consists of a cylindrical meshed body extending the total length of the plate pack. A cone shaped guiding ring is inserted at the inlet of the port and keeps the filter fixed during operation as well as preventing debris from entering between filter body and plate pack. A welded ring in both ends provide a flat surface for gasket sealing against piping and inspection cover.

Installation and maintenance

The filter is inserted and accessed from an extra port placed at the opposite side where the media piping is connected. An inspection cover is mounted to seal the port and makes it easy to access the filter when maintenance is needed. Removal of the port filter for inspection or maintenance is possible without dismantling the inlet pipework.



Benefits

- Prevents clogging
- Extended operation time
- Easy installation
- Easy to service
- Minimized down-time

Technical data

Available for most standard heat exchanger types with connection size Ø100 mm (4 in) and larger.

Material:	Alloy 316L, Alloy 254 (standard for sea water applications) and titanium. Other materials available on request.
Mesh size:	Ø1.5-2.2 mm (0.06-0.09 in) with a corresponding pitch providing an open surface of 37%.
Body thickness:	1 mm (0.04 in)
Ring thickness:	3-5 mm (0.12-0.20 in)

PCT00155EN 1112

How to contact Alfa Laval
Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com.