

Free Flow Plate Heat Exchangers

Application:

Within the Ecoflex® product group the Free Flow gasketed plate heat exchanger provides high efficiency heat transfer for liquids with high pulp or fiber content, such as fruit juice or paper pulp, and for high viscosity products. Well-suited for applications in

- | | | |
|----------------------|-------|-------|
| wastewater treatment | sugar | paper |
| renewable energy | food | |

Benefits:

Ideal for high fiber and high viscosity liquids –

- Plates have gaps between them that are constant-width, eliminating narrow points that can clog with fiber accumulation.
- The superior design of the plates eliminates the need for interplate supports, another potential clogging point.

Versatility –

- The right design, not a “good enough” design. A variety of sizes and plate configurations combine with sophisticated selection software to ensure a perfect customization for your needs.
- The compact footprint allows you to use it in locations that you wouldn’t dream of with a shell-and-tube heat exchanger.

Higher Performance at a Lower Cost –

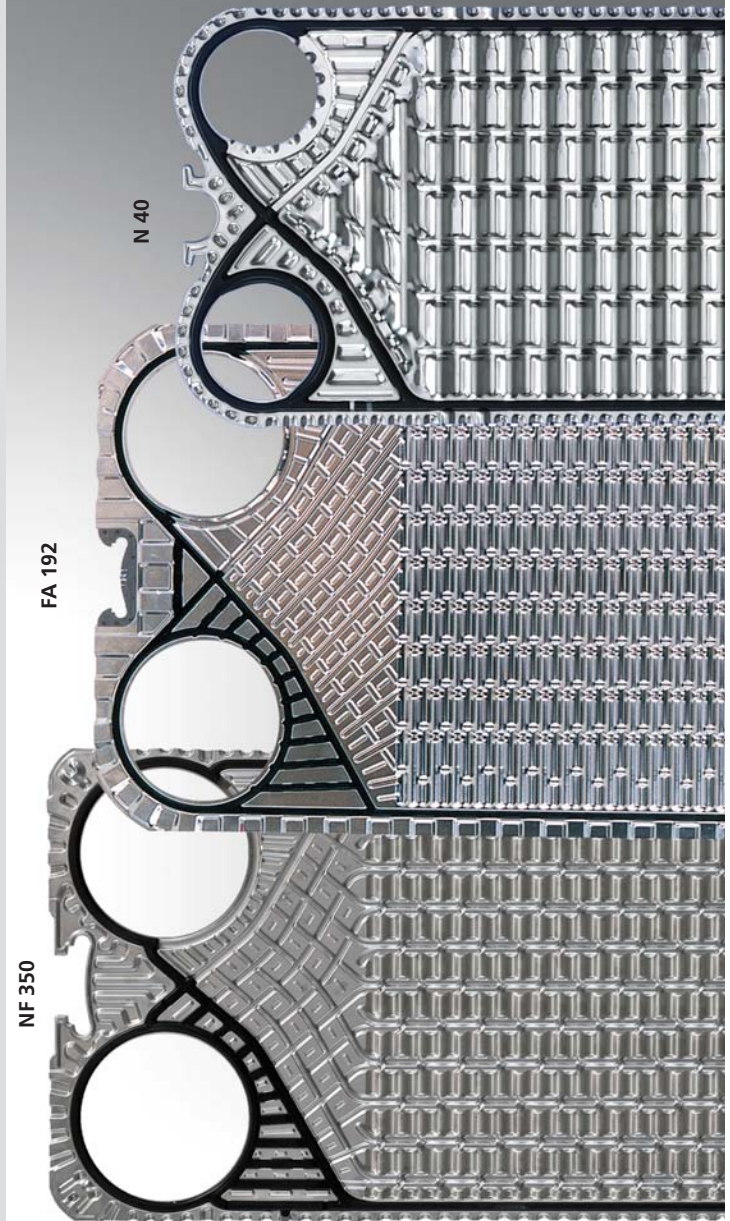
- The corrugation pattern provides the right balance of high efficiency heat transfer, clogging resistance and low pressure drop, providing a cost advantage over larger, more expensive shell-and-tube technology.

Peace of Mind –

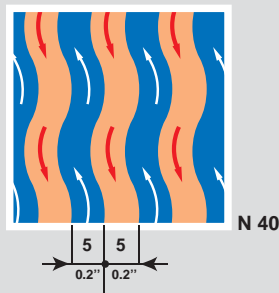
- Over 75 years of experience in crafting high performance plate heat exchangers.
- Independent certification to ASME and other standards.

Convenient Maintenance –

- The constant-width gaps reduce clogging, extending service life.
- Individual plates mean no heavy lifting tools. Faster, more efficient maintenance, with shorter down times

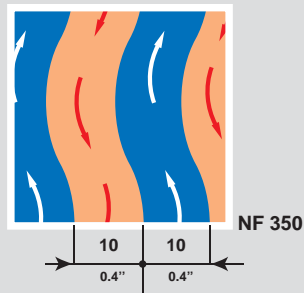


Ecoflex Free Flow plate heat exchangers feature constant-width gaps across the entire product range, and in a variety of gap widths to suit different applications. Our proprietary constant-width designs provide lower pressure drop and greater clogging resistance than variable width designs. Models are available with these gap combinations:



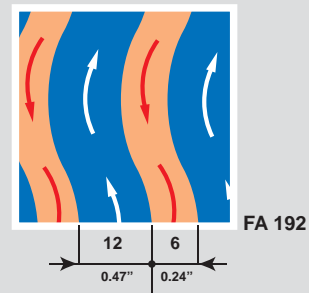
Best used where:

- Fiber content for both media is low to fair and fiber size is small to medium
- Maximum heat transfer efficiency is a high priority



Best used where:

- Fiber content of both media is high and the fiber size is large to extra large
- Resistance to clogging is a high priority



Best used where:

- Fiber content of one medium is fair to high and the fiber size is large to extra large
- Resistance to clogging of the high fiber media is a high priority

Free Flow Series: Technical data

Heat Transfer Plate Material: 316 Stainless, 904L Stainless, 254 SMO. Others on request.

Gasket: NBR, EPDM.

Port Connection: Unlined, Metal Lined (Stainless & other materials on request), Welded Neck Flange, and others on request.

Pressure Plate: Carbon steel, stainless steel, and others on request.

Temperature Range: Up to 320° F (160° C), depending on media.

Maximum Connection Size: Pressure plate material selection may affect maximum connection size.

Shown in the table to the right.

	N40	FA192	NF350
Max Flow Rate	968 gpm (220m ³ /hr)	5944 gpm (1350m ³ /hr)	7264 gpm (1650m ³ /hr)
Max Connection Size	4" nominal	14" nominal	14" nominal
Max Operating Pressure	145 psig (10 bar)	116 psig (8 bar)	116 psig (8 bar) depending on application

The specifications contained in this printing are intended only to serve the nonbinding description of our products and services are not subject to guarantee. Binding specifications, especially pertaining to performance data and suitability for specific operating purposes, are dependent upon the individual circumstances at the operation location and can, therefore, only be made in terms of precise requests.

Your contact:

GEA Heat Exchangers

PHE Systems

GEA Heat Exchangers, Inc. PHE Division
100 GEA Drive, York, PA 17406 USA
Tel: 1-717-268-6200 · 1-800-774-0474
Fax: 1-717-268-6162
info.phe-systems.usa@gea.com
www.gea-phe.com/usa

PHE Systems

GEA Canada, Inc.
30 Via Renzo Drive, Suite 266
Richmond Hill, ON L4S 0B8 Canada
Tel: 1-647-933-4500, Fax: 1-647-933-2909
info.phe-systems.canada@gea.com
www.gea-phe.com/canada

PHE Systems

GEA Process Engineering México S.A. de C.V.
Lomas Verdes 791-4, Col. Jardines de Satelite, Naucalpan, CP 53129
Edo. de México, México
Tel: +52 55 21291161, Fax: +52 55 53439923
info.phe-systems.mexico@gea.com
www.gea-phe.com/usa