Tetra Pak®
Plate Heat Exchanger HL5

Gasketed plate heat exchanger for hygienic applications



Introduction

Tetra Pak® Plate Heat Exchanger H series (inclucing Tetra Pak® Plate Heat Exchanger HL5) is a range of premium heat exchangers specifically developed for dairy, beverage and other industries where hygiene standards must not be compromised. The optimal flow distribution ensures superior cleanability and long operating times. Our special plate pattern provides gentle treatment of delicate products.

The plate has a chevron type of plate pattern designed for hygienic conditions. The entry points, the distribution area and the shape and pressing depth of the plate pattern give optimal performance.

WideStream plates with special plate pattern and a limited number of contact points are available for products containing pulp and fibres. In addition to normal single plate configuration, this model is also available with Gemini double wall plates. Gemini plates are fully cleanable and accessible.

Benefits

- Superior hygienic standards – plates designed with food safety as top priority
- Gentle treatment of sensitive products
- Uncompromising cleanliness
- Superior distribution for long running hours
- Flexible configuration – possible to rebuild the heat exchanger

Applications

- Food, dairy and beverage

Features

Every detail is carefully designed to ensure the highest hygienic standards, gentle product treatment and efficient cleaning. Selection of available features, depending on configuration some features may not be applicable:

- Five-point alignment
- Corner guided alignment system
- Clip-on gasket
- Leak chamber
- Bearing boxes
- Key hole bolt opening
- Pressure plate roller
- Connection plate roller
- Interchangeable corners
- Hygienic adjustable feet

Technical data

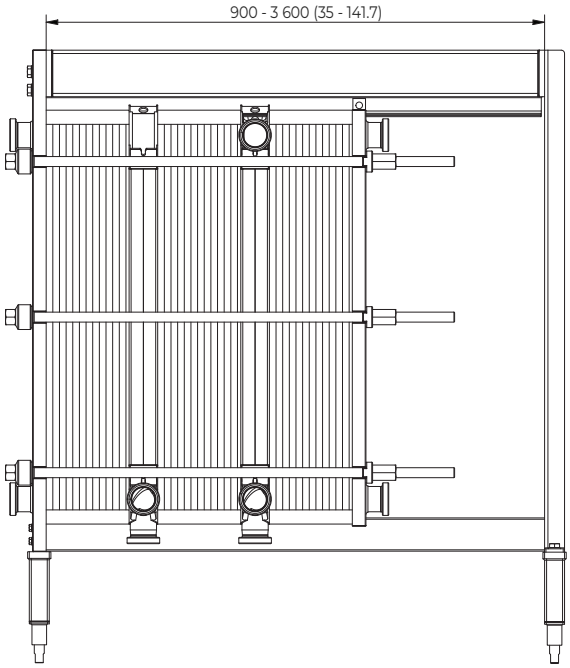
Plates	Type	Free channel, mm (inches)
M	Single plate	3.95 (0.16)
MG	Gemini (hygienic), Double wall	3.95 (0.16)
WS	WideStream	3.95 (0.16)

Materials	
Heat transfer plates	Alloy 316, Ti
Field gaskets	NBR, EPDM
Frame and pressure plate	Cladded stainless steel Solid stainless steel

Other materials may be available on request.
The plate heat exchanger can be manufactured according to 3A certification. The gaskets are produced in compliance with the regulations of FDA.

Dimensional drawing

Measurements mm (inches)



Operational data

Frame type	SM, PED	SD, PED
Max. design pressure	10.0 barg / 145 psig	21.0 barg / 305 psig
Max. design temperature	160 °C / 320 °F	160 °C / 320 °F

Frame type	SM, pvcALS	SG, pvcALS
Max. design pressure	10.0 barg / 145 psig	16.0 barg / 232 psig
Max. design temperature	160 °C / 320 °F	160 °C / 320 °F

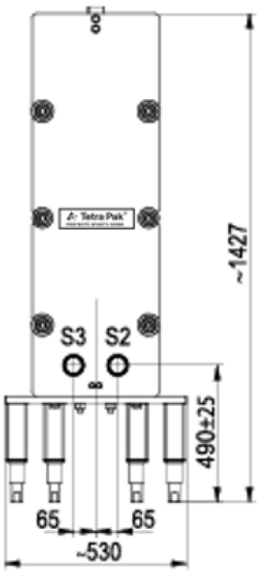
Extended pressure and temperature rating may be available on request.

Connections

Examples: Clamp, SMS, DIN (unions and flanges), BS/RJT, and IDF/ISO.

General remarks for technical information

- The global offering presented in this leaflet may not be available for all regions
- All combinations may not be configurable



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