

# WideGap 200

## Wide-gap Plate heat exchanger

#### **Applications**

Wide-gap plate heat exchanger for general heating, cooling and heat recovery of media containing fibres and coarse particles. In addition the wide-gap channels are suitable for highly viscous fluids.

#### Standard design

The plate heat exchanger consists of a pack of corrugated metal plates with portholes for the passage of the two fluids between which heat transfer will take place.

The plate pack is assembled between a fixed frame plate and a movable pressure plate and compressed by tightening bolts. The plates are fitted with a gasket, which seals the interplate channel and directs the fluids into alternate channels. The number of plates is determined by the flow rate, physical properties of the fluids, pressure drop and temperature program. The plate corrugations promote fluid turbulence and support the plates against differential pressure. The number of plates is determined by the flow rate, the physical properties of the fluids, the pressure drop and the temperature program. The plate corrugations promote fluid turbulence and support the plates against differential pressure.

The Wide-gap plates feature coarse corrugations with a cross-section width of approximately 11 mm (5/12") between the plates, and have flat non-corrugated portholes for the product channels. The Wide-gap plate heat exchanger can be used in two configurations, Wide-gap/Narrow-gap and Medium-gap/Medium-gap.

The frame plate and the pressure plate are suspended from an upper carrying bar and located by a lower guiding bar, both of which are fixed to a support column.

Connections are located in the frame plate or, if either or both fluids make more than a single pass within the unit, in the frame and pressure plates.

# TYPICAL CAPACITIES Liquid flow rate

Up to 150kg/s (2368 gmp), depending on media, permitted pressure drop and temperature program.



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Plate types Wide-gap plates

Frame types

#### Working principle

Channels are formed between the plates and the corner ports are arranged so that the two media flow through alternate channels. The heat is transferred through the plate between the channels, and complete counter-current flow is created for highest possible efficiency. The corrugation of the plates provides the passage between the plates, supports each plate against the adjacent one and enhances the turbulence, resulting in efficient heat transfer.

#### STANDARD MATERIALS

#### Frame plate

Mild steel, Epoxy painted

#### **Nozzles**

Carbon steel

Metal lined: Stainless steel, Titanium

#### **Plates**

Stainless steel Alloy 316 or Titanium

#### Gaskets

Nitrile, EPDM

#### Connections

FG PED Size 200 mm DIN 2501 PN16 FG ASMF Size 8" CL 150

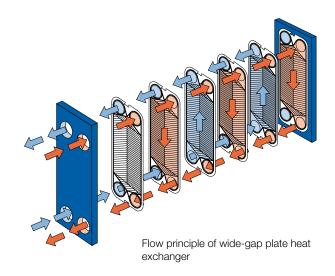
#### **TECHNICAL DATA**

# Mechanical design pressure (g) / temperature

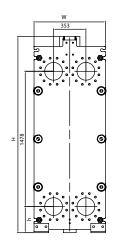
FG PED 1.6 MPa / 180 °C FG ASME 150 psig / 350 °F

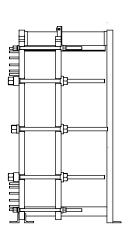
#### Maximum heat transfer surface

425 m<sup>2</sup> (4.550 sq. ft)



#### **Dimensions**





### Measurements (mm)

Туре	Н	W	h
T20S-FG	2145	780	285

### Particulars required for quotation

- Flow rates or heat load
- Temperature program
- Physical properties of liquids in question (if not water)
- Desired working pressure
- Maximum permitted pressure drop
- Available steam pressure

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