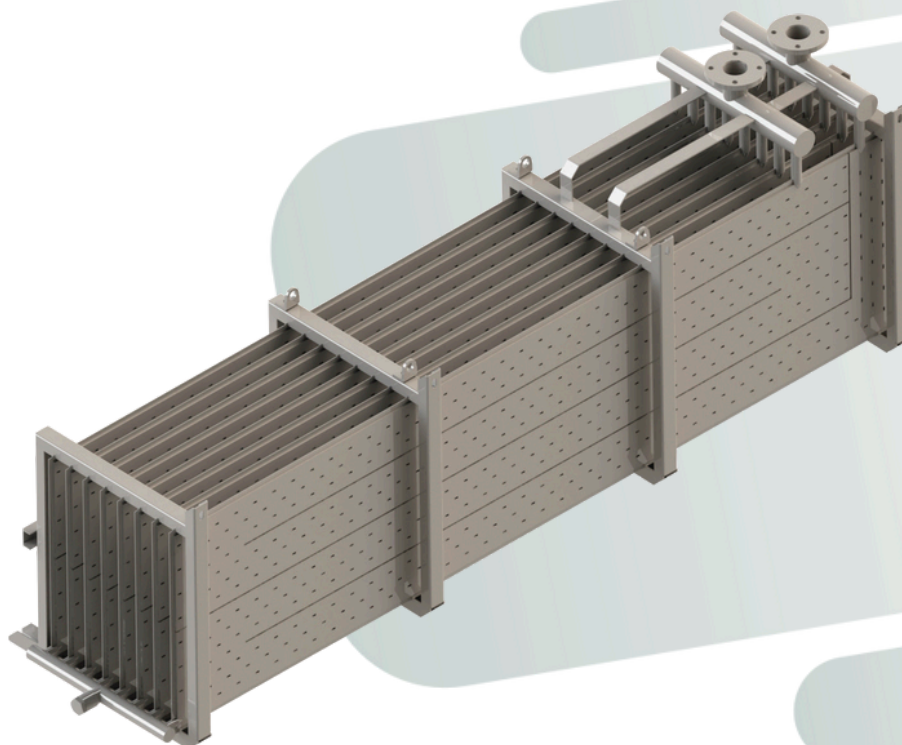


## PILLOW-PLATE HEAT EXCHANGER

# DAV. Pillow



## About Pillow Family

### DESCRIPTION

Pillow-plate heat exchangers [PPHE] represent an innovative type of heat exchangers. They consist of a stack of fully welded plate-type panels, which are characterized by "pillow-like" surface.

The waviness of the channels enhances mixing in the fluid boundary layers, which consequently increases the heat transfer. PPHE can be made of stainless steel, Ni-Cr alloy or titanium.

The PPHE is ideal with medium with an extreme fouling and sedimentation rate (such as oily, sticky, dusty, abrasive or full

of sediments fluids) where heat exchangers made with finned tubes or smooth tubes are not applicable. PPHE are therefore the best choice in applications such as heat recovery from extremely dirty fumes (incinerators) or abrasives (glass factories), or indirect heat exchange inside tanks for food & beverage processes.

The flat and smooth surface of plates can be cleaned easily and quickly with a steam jet or high pressure cleaners, resulting in low maintenance costs.



### ADVANTAGES

Large primary  
exchange surfaces

Food grade  
materials

Great medium flow  
between plates

Perfect in case  
of dirty medium

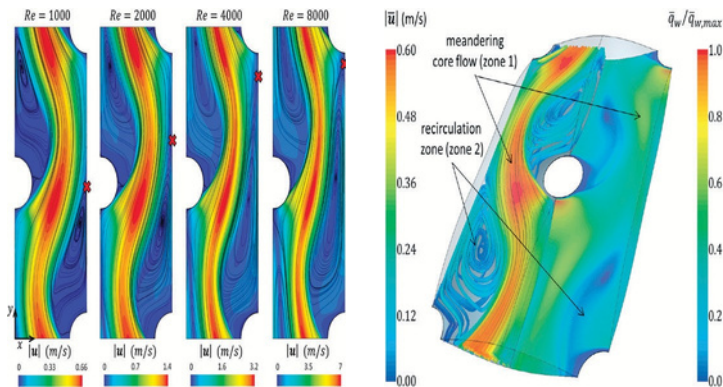
Space saving  
inside tanks

Low maintenance  
cost

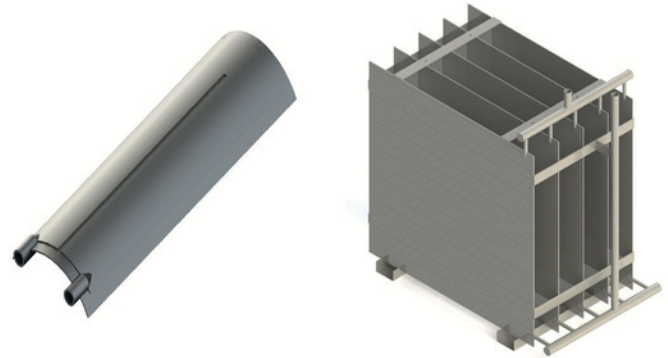




## Efficiency



## Versatility



1/ Customized shapes

2/ Pillow plate banks

## Materials

- Carbon Steel
- St. steel AISI 304
- St. steel AISI 316L
- St. steel AISI 316Ti
- St. steel AISI 321
- St. steel AISI 309
- Titanium
- Nickel Alloy

\*other options available on request

## Options

- **Connection types:**  
threaded nozzle, flange, smooth tube for brazing on site.
- **Casing designs:**  
without casing, side plates only, complete casing, air-tight casing, removable cartridge-type.
- **Casing materials:**  
carbon steel, galvanized steel, stainless steel, aluminum.
- **Accessories:**  
droplet separator, humidifier, washing and cleaning systems.

## Applications



Power



Oil & Gas



Food & Beverage



Farming & Greenhouse



Chemical



Heavy Industry



Naval



HVAC



Refrigeration



Depuration



Transport



Offshore plants

