



**PT. Gemilang Reksa Buana**  
*Mechanical, Electrical & Heat Transfer Engineering*



***HG II SERIES***  
*Plate Heat Exchanger*

## Structural Composition

The HG series II plate heat exchanger is composed of a set of herringbone metal corrugated plates with openings, which form a liquid flow channel, and heat will be transferred between the two liquids. This group of corrugated plates is assembled between a fixed plate and a movable compression plate, and is compressed by clamping bolts.

These plates are equipped with sealing gaskets, which seal the channels between the plates and allow liquid to flow alternately into adjacent channels. The plate and the movable plate are fixed between the upper and lower rods, and the guide rod is fixed on the upright column.

By means of counter-flow, the hot side medium transfers thermal to the cold side medium through plates between channels, and the media do not mix with each other. For the one pass solution design, all connections are on the fixed frame side which will easier the plate heat exchanger installation and disassembling. For cleaning and repair, only the heat exchanger needs to be disassembled for repair, not the pipes.



## Data Required for Correct Quotation

- Types of Media
- Working Pressure
- Pressure Loss
- Thermodynamic properties
- Temperatures
- Flow rates

*Above data determines the choice of heat exchanger*

## Recommended Applications

HFM plate heat exchanger HG series II can be used for heating or cooling in some specific fields, such as ships, geothermal, power plants, petrochemicals, sugar, dairy and other HA series.

## Advantage

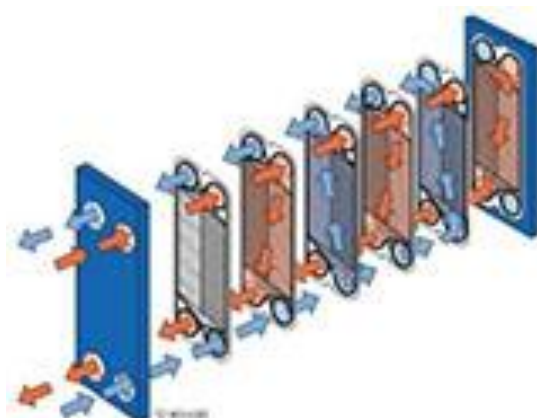
The plate design has two corrugated forms: horizontal corrugated and vertical corrugated. They can meet different pressure drop requirements and suit for different working conditions media.

The corrugated “herringbone” pattern makes more contact points between plates bearing more uniform pressure and ensures turbulent flow in the whole effective area.

The food-grade heat exchanger has a food-grade frame, which is safer and more hygienic.

Compared with traditional shell-and-tube heat exchangers, it has higher heat transfer efficiency and occupies less space.

Quality after-sales service.



### Technical Parameter

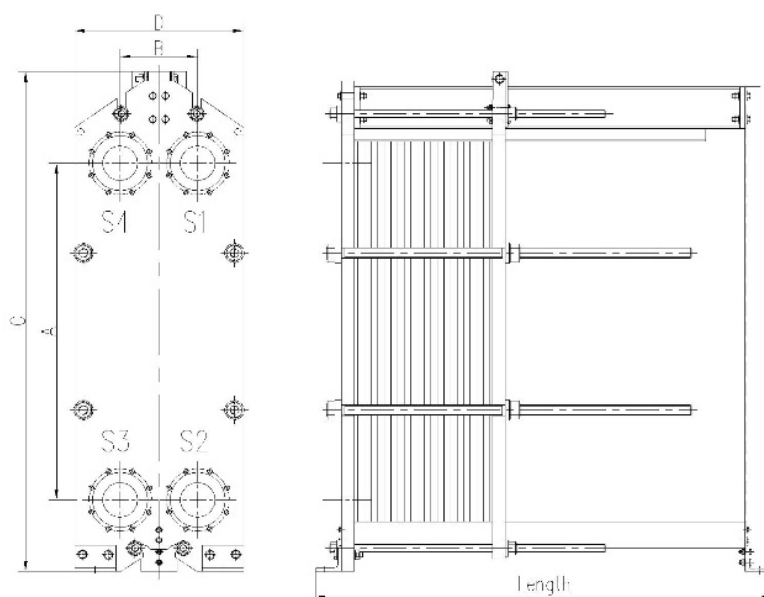
Construction Standard	Design Pressure (barg)	Max. Design Temperature °C	Construction Standard
Carbon Steel/Stainless Steel	PED	10.0/16.0	180
	ASME	10.0/16.0	180

- Painted frame, color RAL 5002 (available in other colors)
- Stainless steel frame, designed for the food and dairy industry.
- Both frames comes with clamping bolts placed around the frame edge.

### Interface information

Metal bushings (stainless steel, titanium or other materials), welding flanges, threaded pipes, clamps, etc.

Other forms of interfaces can be made according to



Type	Interface size	A/ mm	B/ mm	C/ mm	D/ mm	Length Max./ mm	Max. flow / m3/h
HG32	DN32	480	61	570	180	570	9
HG50A	DN50	690	118	920	290	975	40
HG80A/HG80B	DN100	868	212	1178	425	1665	90
HG125A/HG125B	DN150	1227	257	1906	535	2833	190
HG200A/HG200B	DN200	1525.5	382	2203	760	2870	570

Plate	Material	Applicable Mediums	Thickness
	304SS	Pure water/ Edible oil/ Ethanol	0.4/ 0.5/ 0.6
	316SS	Water/ Edible oil/ Ethanol/ Carbonic acid/ 30% Sulphuric acid	0.4/ 0.5/ 0.6
	254SMO	Saline / Inorganic acid	0.6
	Titanium	Sea water/ 130°C Chloride	0.5/ 0.6
	Hastelloy C-276	Organic acid / High temperature HF acid / Hydrochloric acid (< 40%) / Phosphoric acid (< 50%) / Chloride / Fluoride	0.6
	Nickle 200/201	High temperature 50~70% Alkali	0.6

Gasket	Material	Applicable Mediums	Temperature/ °C
	EPDM Ethylene propylene diene monomer	Water/ Steam/ Edible oil	-25-150
	NBR Nitrile rubber	Water/ Edible oil/ Mineral oil/ Ethanol/ Ethylene glycol	-25-130
	FPM/Viton Fluoro rubber	High concentration inorganic acid (oxidizing acid, etc.) / Hot water and steam / High temperature mineral oil	-20-180
	CR Chloroprene rubber	Ammonia and various fluorine-containing refrigerants	-40-125

### Contact Information



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