F711

HG Series II

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.

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 HG 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 Parameters

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

Painted frame, color RAL 5002 (available in other colors)

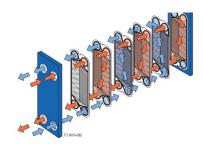
Stainless steel frame, designed for the food and dairy industry. Both frames comes with clamping bolts placed around the frame edge.



Data Required for Correct Quotation

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

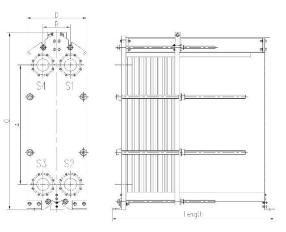
Above data determines the choice of heat exchanger.



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 requirements.



Туре	Interface size	A/ mm	B/ mm	C/ mm	D/ mm	Length Max./ mm	Maximum flow / m3/h
HG0213A	DN32	480	61	570	180	570	9
HG0215A	DN50	690	118	920	290	975	40
HG0218A/HG0218B	DN100	868	212	1178	425	1665	90
HG0223A/HG0223B	DN150	1227	257	1906	535	2833	190
HG0233A/HG0233B	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	Organic acid / High temperature HF acid / Hydrochloric acid (< 40%) /	0.6
	C-276	Phosphoric acid (< 50%) / Chloride / Fluoride	0.6
	Nickle	High temperature 50~70% Alkali	0.6
	200/201		0.0

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