

### HF0223A



#### **Design Principle**

HF0223A is wide gap type, plate range with length 1.4m, will reach up to Max. 200m3/h in a single pass solution. The plate design has a deeper corrugation and a wider fluid flow path to prevent slurry and effluent from blocking the flow path.

By means of countercurrent 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 to achieve optimal heat exchange efficiency.

For the one pass solution design, all connections are on the fixed frame side which will easier the plate heat exchanger installation and disassembling. When do cleaning and maintenance jobs, no nee to remove the pipes.

#### **Recommended Applications**

HF0223A plate heat exchanger is designed in wide gap type for medium high pressure. It is suitable for cooling and heating applications of products containing granules or viscous products, for example sugars, high concentration dairy products, paper and other high viscosity media.

#### Flow Plate

The plate thickness of HF0223A is 0.8mm, can be applied in higher pressure operation conditions. A corrugation depth of more than 0.4mm is more conducive to the operation of media containing suspended particles, and better heat transfer effect obtained.

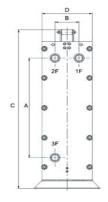
In addition, the entrance area is designed for optimal turbulence flow, which can achieve high thermal efficiency and thus in the design solution with less heat transfer flow plates.

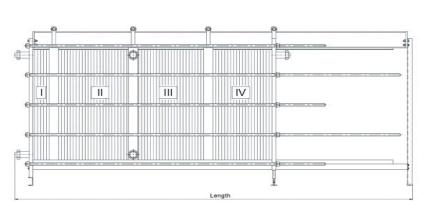


# Data Required for Correct Quotation

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

Above data determines the choice of heat exchanger.





A/ mm	B/ mm	C/ mm	D/ mm	Length Max./ mm
1227	257	1585	535	2833

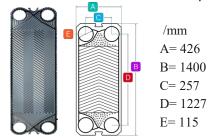


## HF0223A



Connection	n Construction Standard	
DN125	Carbon Steel/Stainless Steel/ Titanium	Weld neck flange
DN125		Pipe/ Threaded pipe

Other connections available on request.



Frame	Construction Standard		Design Pressure (barg)	Max. Design Temperature ℃	
	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 frame's come with clamping bolts placed around the frame edge.

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	MO Saline / Inorganic acid	
	Titanium	Sea water/ 130°C Chloride	
	Hastelloy	Organic acid / High temperature HF acid / Hydrochloric acid (< 40%) /	0.6
	C-276	Phosphoric acid (< 50%) / Chloride / Fluoride	
	Nickle	High temperature 50~70% Alkali	0.6
	200/201	Ingh temperature 30~/076 Alkan	0.0

Gasket	Material	Applicable Mediums	Temperature/ °C
	EPDM		
	Ethylene propylene	Water/ Steam/ Edible oil	-25-150
	diene monomer		
	NBR	Water/ Edible oil/ Mineral oil/ Ethanol/ Ethylene glycol	-25-130
	Nitrile rubber	, , ,	
	FPM/Viton	High concentration inorganic acid (oxidizing acid, etc.) /	-20-180
	Fluoro rubber	Hot water and steam / High temperature mineral oil	-20-160
	CR	Ammonia and various fluorine-containing refrigerants	-40-125
	Chloroprene rubber	Annionia and various fluorine-containing ferrigerants	