HG0145A

Design Principle

HG0145A plate range with length 2.25m, will cover many duties up to 1500m3/h in a single pass solution, satisfying many applications requirement.

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 need to remove the pipes.

Recommended Applications

The plate heat exchangers of the HG0145A series are designed for high pressure. They can be used for heating and cooling operations in multiple areas, steam condensation, industrial circulating water cooling and other clear media's heating and cooling.

HG0145A plate heat exchanger can change the heat transfer area by adding or deducting the plate numbers.

Flow Plate

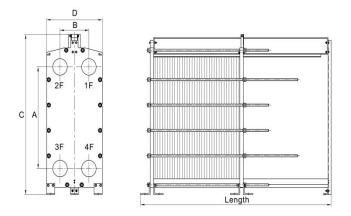
The plate design has two corrugated forms: horizontal corrugated and vertical corrugated. The plates can meet different pressure drop requirements and suit for different working conditions media. The corrugated "herringbone" pattern makes more contact points between plates bearing more uniform pressure and ensures turbulent flow in the whole effective area.



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
1842	596	2852	1150	5153

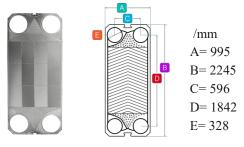


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Connection	Construction	Standard
DN250	Carbon Steel/Stainless Steel/ Titanium	Weld neck flange
DN350		Pipe/ Threaded pipe

■ Other connections available on request.



Frame	ne 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 frames 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	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	
	Nickle	High temperature 50~70% Alkali	0.6
	200/201	ingi temperature 50 7070 Aikan	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 nuorme-containing reirigerants	