

High Pressure Sanitary Heat Exchanger

Homogenizer | Extruder | Biotechnology | Fuel cell | Semiconductor

Unique Benefits

High pressure sanitary shell and tube heat exchangers. Highly efficient designs, with shell diameters ranging from 3/4" to 2" produce heat transfer rates up to 60kW with flow rates up to 1000L/hr.

- **High Pressure:** Pressure up to 5,000 psi
- **Sanitary:** 316L Stainless Steel
- **Compatible:** Tri-clamp, NPT, UNF, Flange and custom fittings are available
- **Efficient:** Small diameter tubes, closely packed for maximum effectiveness
- **Compatibility:** GMP and FDA compliant

Always Discount for Public Research



HPE-5000; HPE-450; 350; 250;150;100

High Pressure Sanitary Heat Exchanger is shell and tube heat exchanger. Sanitary shell & tube heat exchangers are designed to meet the high quality requirements and hygienic standards of the pharmaceutical industry. Highly efficient designs, with shell diameters ranging from 3/4" to 2" produce heat transfer rates up to 60kW with flow rates up to 1000L/hr. It can be used with for a wide variety of industries that include biotechnology, chemical, fuel cell, pharmaceutical, semiconductor, and others. All parts touching with medium are FDA approved sanitary materials including 316L stainless steel or Titanium.

Specifications

Catalog No.	HPE-100	HPE-150	HPE-250	HPE-350	HPE-450	HPE-5000
Flow rate	200 mL/min	300 mL/min	500 mL/min	100 L/hr	200 L/hr	500 L/hr
HT. Rate	~10W/°C	~15W/°C	~25W/°C	~200W/°C	~250W/°C	~3000 W/°C
Max. Pressure	5,000 psi	5,000 psi	5,000 psi	1,500 psi	1,500 psi	1,500 psi
Applicability	Nanogenizer NanoDeBEE M-110P EmulsiFlex-C5;C3 EmulsiFlex-B15		Minigenizer MiniDeBee M-110Y M-110EH EmulsiFlex-D20 EmulsiFlex-C50;C55		Pilotgenizer Productgenizer DeBEE2000 M-7125 M-7250 EmulsiFlex-C160	
Dimensions (cm)	25×40×100	25×40×150	25×40×250	50×70×350	50×70×450	550×500×450
Fitting Tri-clamp	1/2"	1/2"	1/2"	1"	1"	1"
Temp. and Pres.	-190 °C-250 °C (-310 F-482 F) Shell Side Pressure Rating: 800 psi (55 bar)					

Features

Sanitary for pharmaceutical industry



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High Pressure Sanitary Heat Exchanger



HPE-150



HPE-450



Installation Demo

Standard Features

Parts	9/16UNF M to 1" Tri-Clamp, 3/4-16UNF M to 2" Tri-Clamp
Surfacing	Electro-polish and inner Passivation
Application	Processing equipment Condensing and evaporating Regenerative heat transfer Process fluid temperature control Batch process cooling or heating Cryogenic cooling; Sample cooling Clean steam condensing and sub-cooling Temperature control of high purity product
Inlet type	1" or 2" Tri-Clamp
Outlet type	1" or 2" Tri-Clamp
Feed Reservoir	SUS316 Cylinder
Collector Reservoir	SUS316 Cylinder
Product material	316L stainless steel
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

Parts	Tri-clamp, NPT, UNF, Flange and custom fittings are available
Customer	Customer size for larger flow rate
Detector	Pressure gauge, Pressure and Temp. transducer
Outlet type	NPT, UNF, Flange and custom fittings are available
Feed Reservoir	100ml, 200ml, 500ml, 1000ml Syringe, Cylinder
Collector Reservoir	or Online
Product material	Titanium (Resistant to strong acid and base)