

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) |