



Features:

- Elliptical or Flat Bottom
- Explosion Proof Mixers Available
- Insulation Options
- Heat or Cooling Exchanger Units Available
- Removable Cover with Access Lid
- Pressurized Tanks with Port Options
- Irradiated 3D Custom Tank Liners

Benefits:

- Easy Clean Up
- Efficient Process Cooling and/or Heating
- Constant Temperature Control, ± 0.2 °C
- Volumes Available (25L to 5,000L)
- Internal Surfaces < 16 RA

Applications:

- Biologicals
- Pharmaceuticals
- CBD & Hemp
- Food & Beverage
- Fine Chemicals
- Lab Experiments

Jacketed Tanks are available in a wide variety of configurations and sizes.

Our high-quality SS Jacketed Tanks are used to keep a consistent temperature control of your process fluids. The Biological, Pharmaceutical, Food & Beverage, and Fine Chemical industries use our tanks. The tank material is 304 or 316L Stainless Steel as ASME BPE standards. The SS tanks have a double-wall construction to accommodate the heat transfer jacket and baffles for constant cooling/heating circulation of the transfer fluid. The highly corrosive resistant material is ideal because of its superior strength and chemical compatibility.

IFP's jacketed tank provides the end-user with a temperature-controlled tank that is low in cost and easy to use. The jacket & baffles forces the heat transfer fluid to circulate the inner shell. The design allows a uniform transfer of energy between the outer vessel and the inner tank. This design ensures that the process liquid inside of the inner shell can be either cooled, heated, or held at a constant temperature for sustained periods. The tank can be connected to an external chiller/heater, thus eliminating the need to process fluids in a cold room, which saves production time. This tank is especially ideal for sanitary processes since the inter-tank can be steam-sterilized at 258 °F (126 °C) for 30 minutes. Tanks come equipped with a drain port and removable cover to allow for easy cleaning. For pressurized tanks, covers also come equipped with an access lid to keep all fluid contained within the container along with allowing instrument insertion and removal of fluid using a peristaltic or gear pump.



- Options and Styles
- Offer jacketed tanks in two configurations, with the process tank open to atmosphere or pressurized. Photo 1 illustrates the open atmosphere style with a slot in the top cover to accept a mixer shaft. Photo 2 shows a pressurized process design, illustrating many sanitary connections on the top cover. Both styles, open atmosphere, and pressurized process tank have an elliptical bottom. The tank bottom jacket except for a small portion in the center where the drain connection exits the tank circulates heating medium, see photo 3. The open atmosphere style is also available with a flat bottom, which is not jacketed, see photo 4.

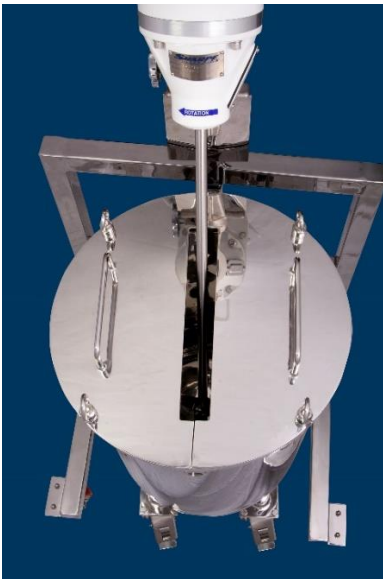


Photo 1 – Top Cover Open Atmosphere Style with slot for Mixer Shaft



Photo 2- Top Cover Pressurized Style illustrating various TC's



Photo 3 – Bottom of Elliptical Design Showing the jacket coverage



Photo 4 – Side view of open Atmosphere with flat bottom

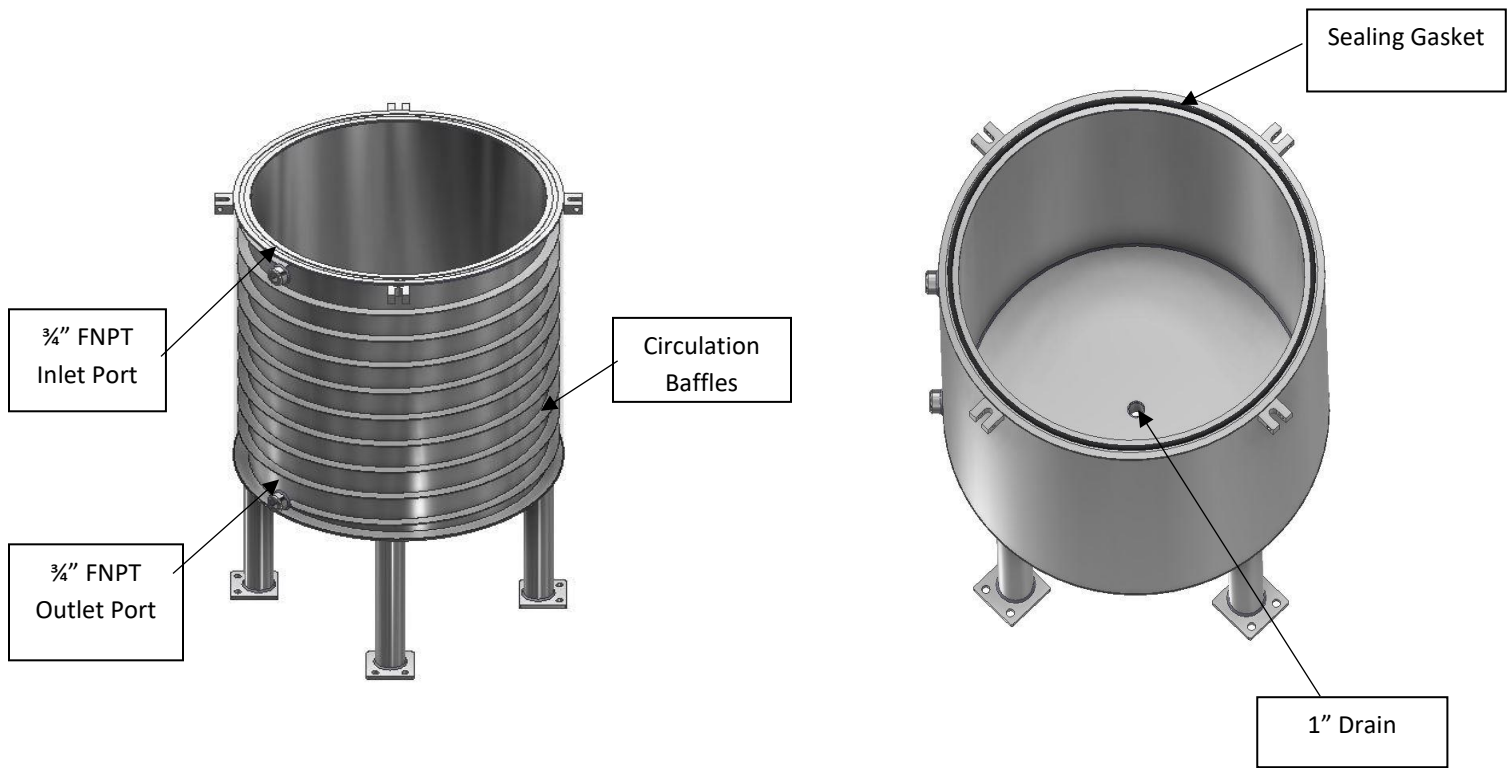


Figure 1: Shows the circulation baffles which helically wound around the tank on the inside of the tank's jacket. The 3/4" FNPT inlet/outlet connections allow for heat transfer fluid to circulate around the tank allowing for constant temperature control throughout.

Figure 2: Shows the sealing gasket for the lid to create a proper seal between the lid and the tank. When using a tank liner this gasket acts as a sandwich to prevent the liner from falling into the tank. Sealing gaskets come in a variety of different materials depending on chemical compatibility. Also shown is the 1" drain for easy cleanup of the tank without having to tip the tank over to drain the process fluid. Plugs to seal off the drain port are available.



Technical Specifications:

Internal Process Tank

Materials of Construction: 316L Stainless Steel

Interior Finish: \leq 16 RA

Passivated and Electro-Polished

Seal Available: Silicone, Viton, Buna N, PFA Encapsulated Viton, EPDM

Drain Port: 1.0" TC, 1.5" TC or 2.0 TC" Depending on Tank Size

Open Atmosphere Tank

Top Closure: Split Cover, slot for Mixer, Swing Away Bolts

Design Temperature: 100 °C (212 °F)

Design Pressure: Atmosphere

Pressurize Process Tank

Top Closure: Flanged, 4 to 6 TC Ports on Cover Surface with Swing Away Bolts

Design Temperature: 100 °C (212 °F)

Design Pressure: 125 Psi (8.5 Bar)

Outer Jacket

Materials of Construction: 304 Stainless Steel

Maximum Operating Temp: 212 °F (100 °C)

Maximum Jacket Pressure: 75 PSIG (5.1 Bar)

Connections: ½" NPT, ¾" NPT and 1.0" NPT depending on tank size Baffle Material: 304 Stainless Steel

Connection Ports: 304 Stainless Steel

Exterior Finish: Electro-Polished < 20 RA



| Part Number | Working volume - L | Weight -Lbs | Tank Style |
|--------------|--------------------|-------------|---|
| IFP-021-1765 | 5L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1770 | 10L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1775 | 15L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1785 | 25L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1788 | 25L | | Pressurized, Elliptical Bottom, Cover TC Ports & swing-away bolts |
| IFP-021-1805 | 50L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1806 | 50L | | Open Atmosphere, Conical Bottom, Cover Slotted |
| IFP-021-1807 | 50L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1808 | 50L | | Pressurized, Elliptical Bottom, Cover TC Ports & swing-away bolts |
| IFP-021-1810 | 100L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1811 | 100L | | Open Atmosphere, Conical Bottom, Cover Slotted |
| IFP-021-1812 | 100L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1813 | 100L | | Pressurized, Elliptical Bottom, Cover TC Ports & swing-away bolts |
| IFP-021-1820 | 200L | | Open Atmosphere, Flat Bottom, Cover Slotted |
| IFP-021-1821 | 200L | | Open Atmosphere, Conical Bottom, Cover Slotted |
| IFP-021-1822 | 200L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1823 | 200L | | Pressurized, Elliptical Bottom, Cover TC Ports, Lifting Davit |
| IFP-021-1827 | 250L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1828 | 250L | | Pressurized, Elliptical Bottom, Cover TC Ports, Lifting Davit |
| IFP-021-1832 | 300L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1833 | 300L | | Pressurized, Elliptical Bottom, Cover TC Ports, Lifting Davit |
| IFP-021-1842 | 400L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1843 | 400L | | Pressurized, Elliptical Bottom, Cover TC Ports, Lifting Davit |
| IFP-021-1852 | 500L | | Open Atmosphere, Elliptical Bottom, Cover Slotted |
| IFP-021-1853 | 500L | | Pressurized, Elliptical Bottom, Cover TC Ports, Lifting Davit |

Note: Jacketed tanks are in available in multiple sizes up to 5,000L working volume. ASME calculation is provided upon request.

Options and Support Equipment Available

Insulation and Stainless-Steel Cladding

Combination Heater and Chiller Units

Heater or Chiller Units Separate

Explosion Proof Mixers

Mixer Stand

Spare Shafts and Impellers

11070 Fleetwood St. Unit B, Sun Valley, CA 91352
www.internationalfilterproducts.com
sales@internationalfilterproducts.com
 Phone: (818) 504-8115

