

# Sanitary Jacketed Mini-Bioreactor

7L | 10L | 15L | 25L

## Features

- Aseptic Design
- Maximize Product Recovery
- Jacket and Insulation
- Stirrer Access
- Dip Tube Design
- Temperature Control
- Instrument Port
- Multiple Seals Available

## Applications

- Biologicals
- Pharmaceuticals
- Blood serums
- Cultures
- Laboratory Experiments
- Therapeutic Drugs
- Beverages
- Lotions and Creams

## Benefits

- Access for Cleanability
- Cool or Heat Fluid
- Steam Sterilize
- Use Air to Move Fluid
- Use Peristaltic Pump
- No Dead Zone
- Multiple Volumes Available
- Internal Surfaces < 12 Ra

The **Sanitary Mini-Bioreactor** offers the Scientific community enormous flexibility in developing the next innovative process with an economical option. The available reactors sizes (7L, 10L, 15L, and 25L) allow for temperature control, steam sterilizing, stirring, product recovery, process monitoring, all in sleek 316L BPE vessel designed to meet the requirements of the Biopharmaceutical Industry.



15 L and 25 L  
◀ are shown

## Technical Specifications

### Connections

- Inlet/Outlet Process Port:  
1.0" Sanitary Tri-Clamp Flange
- Instrument Port:  
1.0" Sanitary Tri-Clamp Flange
- Vent Valve: ¼" Relief Valve
- Inlet/Outlet Jacket Port: ½" FNPT
- Top Cover Port:  
6.0" Sanitary Tri-Clamp



### Finish

- Internal Surfaces:  
Passivate, Electro-Polished < 12 Ra
- External Surfaces:  
Passivate, Electro-Polished < 20 Ra



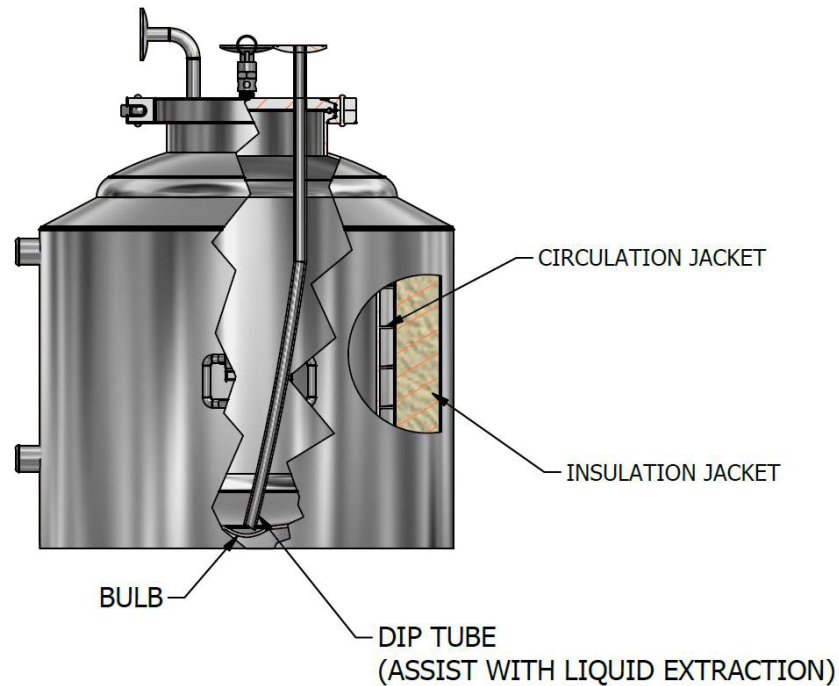
### Materials of Construction

- Top Cover: 316 L Stainless Steel
- Vessel Body: 316 L Stainless Steel
- Inlet Port: 316 L Stainless Steel
- Outlet Port: 316 L Stainless Steel
- Instrument Port:  
316 L Stainless Steel
- Vent Valve:  
316 L Stainless Steel
- Top Clamp:  
304 Stainless Steel
- Jacket Material:  
304 Stainless Steel
- Jacket Inlet / Outlet Port:  
304 Stainless Steel
- Insulation: Armaflex HT
- Cladding:  
304 Stainless Steel
- Handles: 304 Stainless Steel

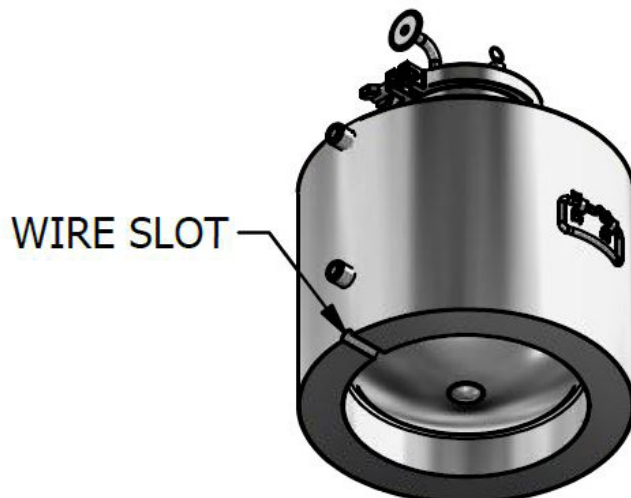


For safety purposes, a relief valve is installed in the top cover, making it easy to relieve the pressure before opening the top cover. Inlet, outlet, instrument port, and top lid are Tri-clamps that require no special tools to open or close and an Aseptic Design. The Tri-clamps seals are common and available in many different materials. It is easy to obtain chemical compatibility, and the vessel can be steam sterilize up to 270°F (132°C) for 30 minutes (EPDM seals).

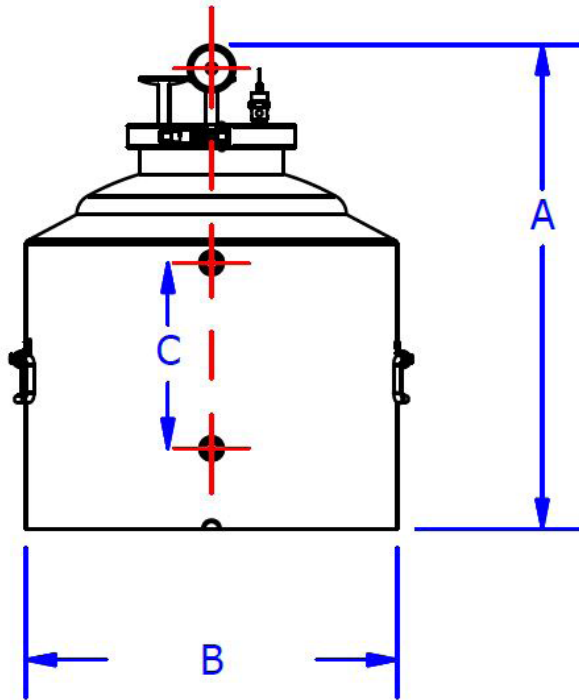
The **Sanitary Mini-Bioreactor** has a dip tube that extends to the bottom of each tank into a small bulb. This allows for the valuable process fluid to be extracted from the pressure vessel with air or peristaltic pump, achieving zero volume hold-up. The temperature of the reactor can be easily controlled with minimal heat transfer. The added helically wound jacket and the insulation make this possible. (It's already in the description, the photo below should be around the paragraph)



The unique design of the **Sanitary Mini-Bioreactor** allows to measure the surface temperature from the bottom of the vessel using a thermostat device. The wire slot allows to attach a thermostat on the bottom surface of the vessel while connected with a transmitter and determines the skin temperature of the vessel.



The size of our Sanitary Mini-Bioreactor varies with its volume. The figure and the table below to determine the nominal dimension of our Sanitary Mini-Bioreactor for different sizes.



Part Number	Volume	Maximum Working Pressure	Dimension A	Dimension B	Dimension C
IFP-021-1107-EJ	7 Liter	75 PSI	16.8 in (427 mm)	12.6 in (320 mm)	6.0 in (152 mm)
IFP-021-1110-EJ	10 Liter	75 PSI	19.6 in (498 mm)	12.6 in (320 mm)	6.7 in (170 mm)
IFP-021-1115-EJ	15 Liter	100 PSI	20.2 in (513 mm)	15.5 in (394 mm)	7.7 in (196 mm)
IFP-021-1125-EJ	25 Liter	100 PSI	26.6 in (676 mm)	15.5 in (394 mm)	13.1 in (333 mm)

Note: Detailed sales drawings are available upon request.

Our Certificate of Conformity for the Mini-Bioreactor includes a certificate for each wetted surface component including a chemical analysis, hydro test report, surface roughness report, and detailed drawing.



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