



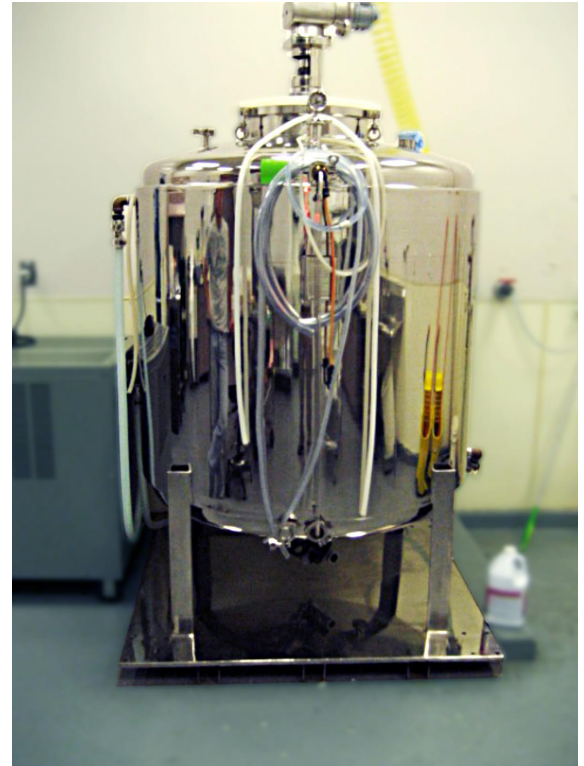
Stainless Steel Jacketed Tank

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The high quality SS Jacketed Tank is designed to keep a constant cooling temperature. These tanks are commonly used in the Biological, Pharmaceutical, Food, and Beverage industries. The tank material is 304 or 316L stainless steel as ASME BPE standards. The SS tanks have a double wall construction for the coolant jacket and baffles for constant cooling circulation for the fluid being stored. The highly corrosive-resistant material is ideal because of its superior strength and chemical compatibility.

The tanks are available in 50 L, 100 L, 200L, 500L and 2000 Liter sizes.

Design Features – The objective of our Engineers was to design a temperature controlled tank that is low in cost and convenient to use. The tank has a jacket that circulates the coolant around the inner tank through the jacket coolant ports to transfer BTU's from the jacket to the inner tank efficiently. This design ensures that the liquid in the tank can be cooled while keeping the inner tank at a constant temperature for long abstained periods. Since it is connected to a refrigeration system, the tank does not have to be moved in or out of a cold room, which saves production time. This tank is ideal sanitary use since the tank can be steam sterilized at 258 F (126 C) for 30 minutes. The tank has a drain port and a removable cover for easy cleaning. The tank cover has an access lid to contain fluid and insert and remove fluid with peristaltic pump tubing. The tank cover is designed to keep the tank liner from falling into the tank by compressing liner against a silicone gasket.



2000 liter tank shown

Features	
Cooling Baffles	1" Drain TC
FNPT Connections	Water Chillers Available
Removable Cover with Access Lid	Irradiated 3-D Custom Tank Liners

Benefits
Easy Clean Up
Efficient Cooling
Constant Temperature Control

Applications
Biological Fluids
Pharmaceutical Fluids
Food and Beverages

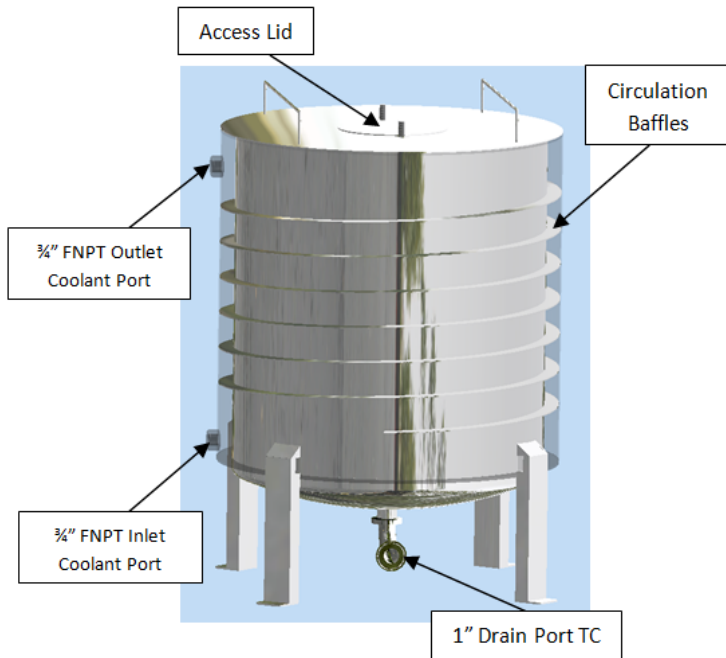


Figure 1: It shows the baffle wrapped around inside the tanks jacket with the 3/4" FNPT inlet and outlet coolant connections. This allows for constant temperature control throughout.

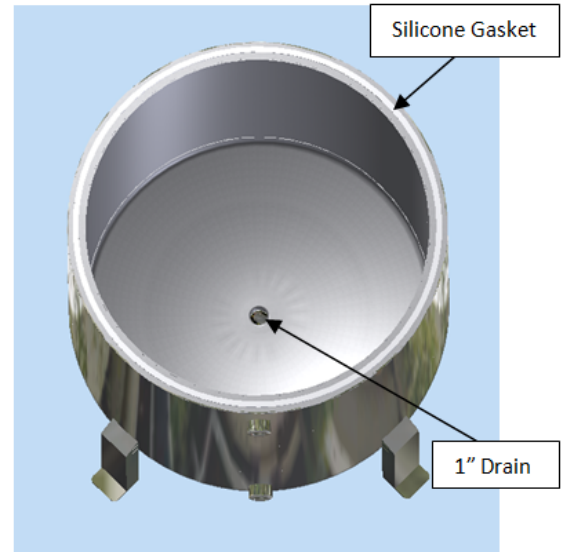


Figure 2: It shows the silicone gasket for lid to sandwich the tank liner between the lid and tank cover so the liner does not fall into the tank. It also shows the 1" drain for easy clean up of the tank without having to tip over the tank to remove fluids.

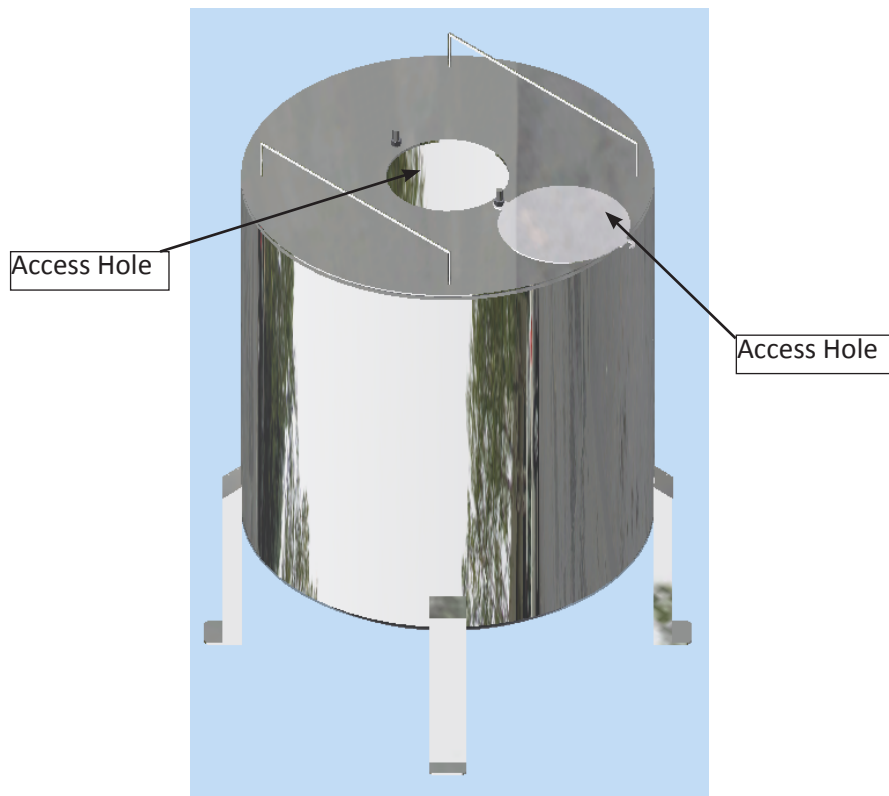


Figure 3: Shows the access lid that swings open and closed. The access lid is used to pump fluids in and out and to add any required chemicals. It also serves as a mixer mounting.

SPECIFICATIONS		
Materials of Construction	Tank Material: 304 or 316L SS	
	Baffle Material: 304 SS	
	Connection Material: 304 SS	
Finish	Exterior Finish: Electro polished < 32 RA	
	Interior Finish: Electro polished < 25 RA	
Nominal Dimensions	50L	Diameter: 18 inches, Height: 23 inches
	100L	Diameter: 22 inches, Height: 34 inches
	200L	Diameter: 22 inches, Height: 52 inches
Operating Conditions	Maximum operating conditions: 212 F (100 C)	
	Maximum jacket pressure: 75 PSIG	
Regulatory Compliance	Material 304 and 316L as to ASME BPE. Cleaned per specification NAS 1638 in a Class 10000 clean room.	

NOMENCLATURE			
Housing Style	Style #	Material	Optional Equipment
	XX-XXXX	X	X
50 L	01-1800	316=316L SS	M-Mixer
100L	01-1810	340=304 SS	C-Chiller
200L	01-1820		
500L	01-1830		
2000L	01-1840		

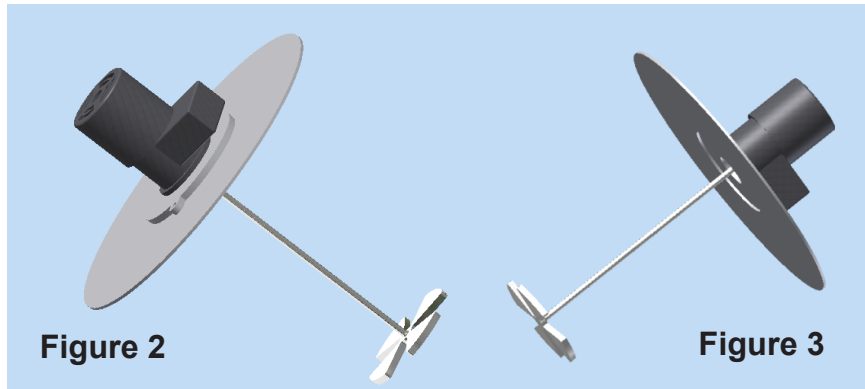
Note: Drawings are available for each model offered, call the factory



3-D Custom Tank Liners

Our 3-D tank liners were especially designed for this line of Jacketed Tanks and creates a sanitary environment making it a snap for tank clean-up. The 3-D Tank liners are available in irradiate and non-irradiated condition. They are designed with a flat bottom to ensure complete mixing eliminating wrinkles and folds where the tank liner and tank are interface.

PART NIMBER	DESCRIPTION
FSA00491.01	50 Liter Non-Irradiated
FSA00491.02	100 Liter Non-Irradiated
FSA00491.03	200 Liter Non-Irradiated
FSA00343.01	50 Liter Irradiated
FSA00343.02	100 Liter Irradiated
FSA00343.03	200 Liter Irradiated



Custom Mixer Option

We have sanitary mixers that mount on the select tank. The recommended mixer depends on the application, fluid volume in the tank and the size. The most common use for these mixers is to agitate and mix the fluid in the tank. We have engineers on staff to assist, so please call for more information.

Chiller Option

We have a variety of chillers to fit your application depending on the volume and tank size. The most common use for these chillers is to keep the fluid in the tank at a constant temperature or reducing the fluid temperature from room temperature down to 39 F (4 C). We have engineers on staff to assist if needed.



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