

Steam Sparged Water Bath Cryogenic Vaporizer

FinnCo's Steam Sparged Water Bath Cryogenic Vaporizers convert liquified gases into gas by utilizing heat from steam. The heat exchanger bundle is immersed in a bath where steam is injected into the water through spargers.

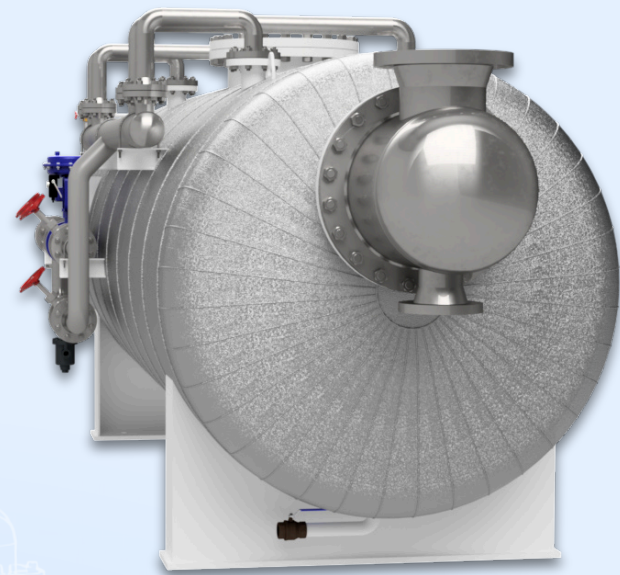
The steam enters the water as small, controlled bubbles, resulting in fast, efficient heating of the water bath. Absorbing the heat, the liquified gas in the tube bundle vaporizes, exiting as superheated gas.

A large thermal mass provided by the water bath means that peak steam demand is reduced, along with lower thermal stress and smooth operation.

RELIABLE, EFFICIENT AND VERSATILE

Vaporizing a wide range of liquefied gases, including oxygen, nitrogen, argon, natural gas, and other cryogenic and industrial gases.

High-volume vaporization delivering a continuous, dependable supply of vaporized gas by operating at a consistent pressure and temperature.



STANDARD HORIZONTAL DIRECT TO PROCESS VAPORIZER; 150 PSIG N₂, LNG; 250 PSIG CO₂; 70°F OUTLET; 160°F BATH

Model	Flowrate			Steam, Lbs/hr	Weight, Lbs	Approx Dimension L X W X H, ft	Connection Sizes, Inches	
	N ₂ , SCFH	CO ₂ , lbs/hr	LNG, SCFH				Process Inlet	Process Outlet
FSB-25	25,000	2,000	20,000	340	1,800	12 X 6 X 4	1	1-1/2
FSB-50	50,000	4,000	40,000	670	2,600	12 X 6 X 4	1	1-1/2
FSB-100	100,000	8,100	81,000	1,350	6,300	18 X 8 X 5	1-1/2	2
FSB-150	150,000	12,100	122,000	2,020	6,500	20 X 8 X 5	1-1/2	4
FSB-200	200,000	16,200	162,000	2,700	6,800	24 X 10 X 7	2	4
FSB-300	300,000	24,300	244,000	4,050	7,000	24 X 10 X 7	2	6
FSB-400	400,000	32,400	325,000	5,400	11,000	24 X 10 X 8	3	6
FSB-500	500,000	40,500	406,000	6,750	13,000	24 X 10 X 8	3	6
FSB-750	750,000	60,700	609,000	10,100	20,000	24 X 11 X 8	3	6
FSB-1000	1,000,000	80,900	812,000	13,500	28,000	26 X 11 X 8	4	8
FSB-5000	5,000,000	405,700	4,072,000	33,700	100,000	28 X 12 X 9	6	12

STANDARD FEATURES

- ASME B&PV Code Section VIII Div 1 code stamped bundle (U-Stamp)
- Stainless steel heat exchanger bundle
- Steam drip trap and strainer on steam supply line
- Carbon steel tank with overflow and three minute ballast

OPTIONS

- Block and bypass valve configuration around steam control valve
- Tank insulation
- Additional process or pressure building coils and bundles
- Larger tanks for longer ballast requirements
- Stainless Steel tank
- 316 S.S., Monel, and other alloy bundles available.



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