



Chilled Water Buffer Tank

Total System Efficiency

Lochinvar Chilled Water Buffer Tanks are designed to create volume in a chilled water system when the system and associated piping can not provide the chiller with the volume required for efficient operation. To meet this criteria, Lochinvar has designed a Chilled Water Buffer Tank that is an ASME certified vessel and is available in various custom configurations and tank sizes.

Chiller manufacturers recommend a specific volume of water per ton of chiller capacity to maintain water temperature stability. These recommendations range from 3 to 5 gallons of system volume per ton of chiller capacity when used in a comfort cooling application to system volumes of 6 to 10 gallons per ton when used in a process cooling application where temperature stability is critical.

Selecting the right tank is easy. After determining how much additional volume the tank will provide, select the size and configuration of the system connections that will best connect the tank to the chilled water system.

Outstanding Features:

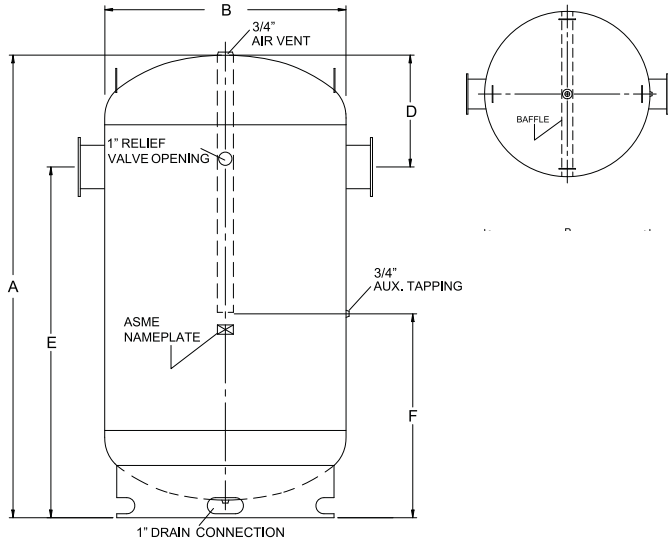
- Vertical Internal Baffle to encourage proper mixing of fluid
- 125 PSI Working Pressure
- ASME Sec VIII, U-Stamped Vessel
- Five Year Limited Warranty
- Flanged Connections
- Lifting Lugs
- Red Oxide Paint

Optional Equipment:

- “R-12” Spray Foam insulation with UV Resistant Exterior
- 12” x 16” Manway (300 and above)
- 4” x 6” Hand Hole
- Automatic Air Vent
- Temperature and Pressure Gauge



Chilled Water Buffer Tank w/Upper Connections

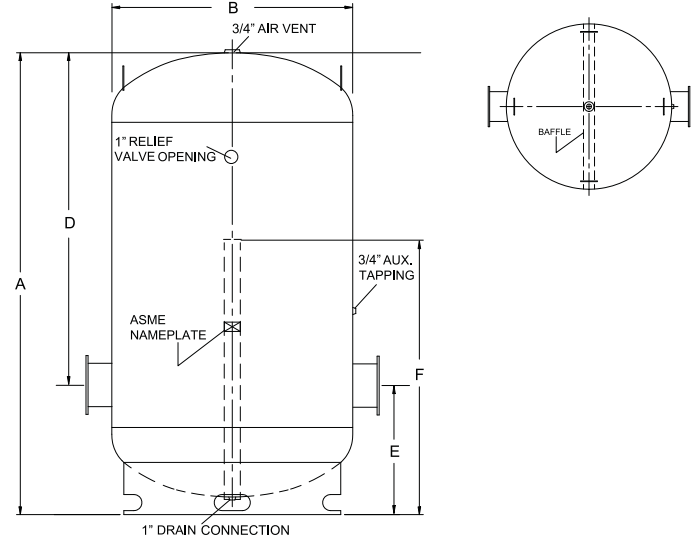


Model Number	Gallon Capacity	A	B	D	E	F	Max. Connection Diameter*	Max. Connection Weight (lbs.)
CVU120	120	56"	28"	20"	36"	19"	6"	298
CVU200	200	86"	28"	20"	66"	29"	6"	430
CVU300	300	76"	36"	23"	53"	25"	8"	533
CVU400	400	76"	42"	25"	52"	25"	8"	818
CVU500	500	87"	42"	25"	62"	29"	8"	930
CVU750	750	100"	48"	27"	73"	33"	8"	1430
CVU1000	1000	124"	48"	27"	97"	41"	8"	1733

Notes: * For Larger Sizes Consult Factory

Custom Sizes and Configurations are Available. Consult Factory for details

Chilled Water Buffer Tank w/Lower Connections



Model Number	Gallon Capacity	A	B	D	E	F	Max. Connection Diameter*	Max. Connection Weight (lbs.)
CVL120	120	56"	28"	32"	24"	37"	6"	298
CVL200	200	86"	28"	62"	24"	57"	6"	430
CVL300	300	76"	36"	49"	27"	50"	8"	533
CVL400	400	76"	42"	48"	29"	50"	8"	818
CVL500	500	87"	42"	58"	29"	58"	8"	930
CVL750	750	100"	48"	69"	31"	66"	8"	1430
CVL1000	1000	124"	48"	93"	31"	82"	8"	1733

Notes: * For Larger Sizes Consult Factory

Custom Sizes and Configurations are Available. Consult Factory for details

When ordering it is necessary to specify a water connection size and type.

Buffer Tank Sizing Formula:

$$\text{Buffer Tank Size} = (\text{Required System Volume}) - (\text{Actual System Volume})$$



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