



# Chilled Water Buffer Tanks

## for added cooling capacity

### Description

RECO Commercial Systems' chilled water buffer tanks add cooling capacity to non-potable, closed-loop systems where the peak demand would otherwise exceed the ability of the system to satisfy it. RECO can build buffer tanks for any storage capacity. Standard offerings from 120 to 1,040 gallons. Our chilled water tanks include an internal baffle to help mix the incoming flow stream and can be supplied with optional elastomeric exterior insulation. Installed in a system, the chilled water buffer tank reduces cycling, improves temperature control, and helps provide for a more even response to system demand.

### Standard Construction

- Welded carbon steel vessel designed and built-in strict accordance with the ASME Code Section VIII and stamped, certified, and registered with the National Board of Boiler and Pressure Vessel Inspectors.
- Designed for 125 psig max design pressure, higher design pressures up to 300 psig are available.
- Internal baffle depending on design.
- Ring base support and two lift lugs are standard.
- Red oxide primer exterior finish.
- Inspections opening provided according to ASME code.
- Standard one (1) year tank warranty. Optional extended

### Options

- Available in vertical and horizontal configurations.
- Anchor clips.
- Leg supports.
- Threaded, flanged or grooved port connections.
- Two (2), four (4) or custom port configuration.
- 12" x 16" manway available depending on tank size.
- 1" thick elastomeric insulation (R4) or closed cell spray foam (up to R21).

### Applications

- Schools
- Office Buildings
- Sports Venues
- Hotels
- Industrial Facilities
- Nursing Homes
- Hospitals
- Heat Recovery Systems

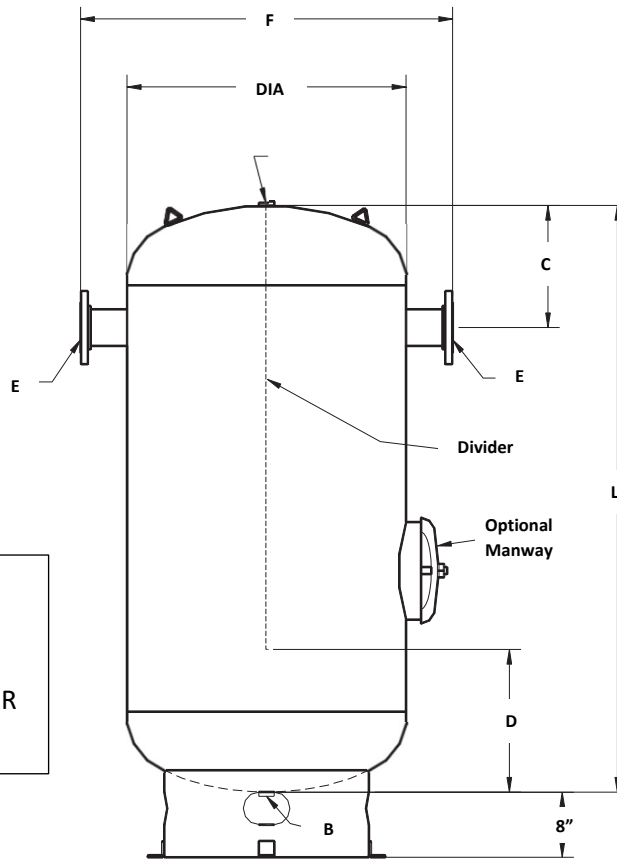


<b>Model</b>	Chilled Water Buffer Tank	CB
<b>Orientation</b>	V = Vertical H = Horizontal	V
<b>Rating (vessel)</b>	125 = ASME 125 150 = ASME 150 300 = ASME 300	125
<b>Diameter (vessel)</b>	Inches	48
<b>Height/Length (vessel)</b>	Inches	72
<b>Vessel Lining/Material</b>	CS = Carbon Steel SS = Stainless steel E = Epoxy lining	CS
<b>Port Type</b>	U = Upper, 2-Port L = Lower, 2-port 4 = 4 Port	L
<b>Connection Size</b>	Inches	4
<b>Connection Type</b>	F = Flanged T = Threaded G = Grooved	F

### Example

CBV125-48072CS-L4F Chilled Water Buffer Tank, ASME 125, Ø48" x 72" OAH carbon steel vessel with 2 x 4" flanged, lower connections.

Note: All optional equipment for a buffer tank must be called out in the written specifications. A model number in and of itself does not reflect any optional equipment selected. Optional equipment may impact overall dimensions and weight. Please request submittal drawing from factory.



STANDARD CHILLED WATER  
BUFFER TANK WITH UPPER  
CONNECTIONS SHOWN.  
CONSULT FACTORY FOR OTHER  
CONFIGURATIONS.

MODEL	CAPACITY (GALLONS)	DIAMETER DIA	LENGTH L	VENT A	DRAIN B	C	D	E	F	WEIGHT LB
CBV125-24060	120	24	60	1	1	12	20	2" NPT	34	537
CBV125-30072	200	30	72	1	1	14	24	3" FLG	40	756
CBV125-30090	250	30	90	1	1	14	24	3" FLG	40	867
CBV125-36072	300	36	72	1	1	16	24	4" FLG	46	943
CBV125-36094	400	36	94	1	1	16	24	4" FLG	46	1165
CBV125-42090	500	42	90	1½	1	18	30	6" FLG	52	1350
CBV125-48096	680	48	96	1½	1	20	32	6" FLG	58	1609
CBV125-54096	850	54	96	1½	1	22	32	6" FLG	64	2057
CBV125-60096	1040	60	96	1½	1	24	32	6" FLG	70	2757

**Note**

All dimensions are approximate and subject to change. Please reference the submittal drawing for actual dimensions. The tank selections above are shown for convenience. A full selection of storage capacities is available from the factory.