



FLEXCON FCBT-SERIES COLD WATER BUFFER TANKS

Description: Flexcon FCBT-series tanks are ASME-rated and designed for chilled water systems with insufficient water volume capacity in relation to the chiller capacity. Relatively low water volume systems require additional “buffer” capacity for the system to eliminate problems including excessive chiller cycling, poor temperature control, and erratic system operation. The properly sized FCBT-series tank adds the necessary volume to “buffer” the system volume.

Shell Construction: Carbon Steel

Exterior Finish: One Coat Primer

Note: Various system connections/sizes available.

Maximum Design Temperature: 450°F/232°C

Maximum Design Pressure: 125 PSIG*

Note: Higher pressures available upon request.

To properly size a chilled water buffer tank, complete the following calculations:

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

where

$$\text{Critical System Volume (USG)} = \text{Mfg Recommended System Volume Per Ton (USG/Ton)} \times \text{Total Chiller Capacity (Tons)}$$

Model	Tank Volume (USG)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Wt. (lb)
FCBT-120	120	24	60	Cust. Spec	¾	1	Varies w/ selection of C	320
FCBT-200	200	30	72	Cust. Spec	¾	1	Varies w/ selection of C	400
FCBT-300	300	36	72	Cust. Spec	¾	1	Varies w/ selection of C	560
FCBT-500	500	42	90	Cust. Spec	¾	1	Varies w/ selection of C	615
FCBT-850	850	54	96	Cust. Spec	¾	1	Varies w/ selection of C	940
FCBT-1040	1040	60	96	Cust. Spec	¾	1	Varies w/ selection of C	1012

