



SIZING THE CHILLED WATER BUFFER TANKS

For Adding Capacity to Closed, Non-Potable Chilled Water Systems

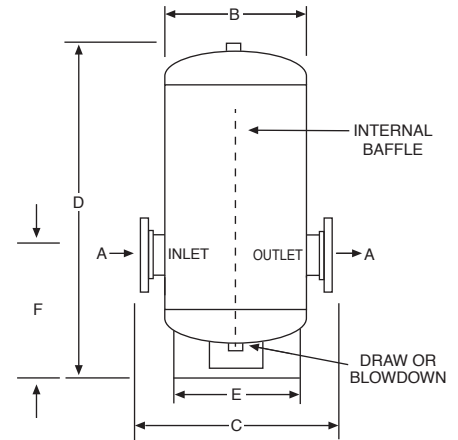
Required Information for Properly Sized Chilled Water Buffer Tank

Total Chilled Capacity in Tons = C
 Actual System Volume in Gallons = V_A
 Chiller Manufacturer's Recommended System Volume per Ton = V_R

Check with Chiller Manufacturer for specific requirements. Typical HVAC chiller systems are between 3 to 6 gallons per ton. While 6 to 10 gallons are used for applications in which temperature accuracy is critical.

$$\text{Volume of Total Buffer Tank} = (C \times V_R) - V_A$$

$$\left(\text{TON} \times \frac{\text{GAL}}{\text{TON}} \right) - \text{GAL} =$$



ASME Models

Model Number	Volume Gal	Dimensions						Shipping Weight	
		Conn. Size A	B	C	D	E	F	Lbs	Kg
		In	In	In	In	In	In		
CWBT120-3-125	120	3	24	33	55 ³ / ₄	16	15	294	133
CWBT120-4-125	120	4	24	33	55 ³ / ₄	16	15 ¹ / ₂	315	143
CWBT120-6-125	120	6	24	33	55 ³ / ₄	16	16 ¹ / ₂	333	151
CWBT200-3-125	200	3	30	39	62 ³ / ₈	24	21 ¹ / ₂	527	239
CWBT200-4-125	200	4	30	39	62 ³ / ₈	24	22	547	248
CWBT200-6-125	200	6	30	39	62 ³ / ₈	24	23	566	257
CWBT300-4-125	300	4	36	45	80 ³ / ₈	30	32 ¹ / ₈	753	342
CWBT300-6-125	300	6	36	45	80 ³ / ₈	30	33 ¹ / ₈	772	350
CWBT300-8-125	300	8	36	45	80 ³ / ₈	30	34 ¹ / ₈	801	363
CWBT500-6-125	500	6	42	51	99 ¹ / ₂	30	36 ¹ / ₂	1366	620
CWBT500-8-125	500	8	42	51	99 ¹ / ₂	30	37 ¹ / ₂	1395	633
CWBT500-10-125	500	10	42	51	99 ¹ / ₂	30	38 ¹ / ₂	1490	676
CWBT850-6-125	850	6	54	64	114 ¹ / ₈	42	39 ¹ / ₂	2707	1228
CWBT850-8-125	850	8	54	64	114 ¹ / ₈	42	40 ¹ / ₂	2736	1241
CWBT850-10-125	850	10	54	64	114 ¹ / ₈	42	41 ¹ / ₂	2771	1257
CWBT1040-8-125	1040	8	60	70	107 ³ / ₈	45	36	3136	1423
CWBT1040-10-125	1040	10	60	70	107 ³ / ₈	45	37	3171	1438
CWBT1040-12-125	1040	12	60	70	107 ³ / ₈	45	38	3283	1489



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