



HF-BT SUB-15

**STAINLESS STEEL HYDRONIC BUFFER TANKS  
SUBMITTAL SHEET**

**Page 1 of 3.**

JOB NAME \_\_\_\_\_  
LOCATION \_\_\_\_\_  
ARCH./ ENGR. \_\_\_\_\_  
WHOLESALE \_\_\_\_\_  
MECH.CONTRACTOR \_\_\_\_\_  
MODEL NO. \_\_\_\_\_  
GALLON CAPACITY \_\_\_\_\_  
CONNECTIONS: \_\_\_\_\_

**STANDARD FEATURES**

R-12 INSULATION  
THERMOPLASTIC JACKET  
REMOVABLE THERMAL WELL  
ALL 316L STAINLESS STEEL CONSTRUCTION, NO DISIMILAR METALS  
PRORATED WARRANTY  
CONFORMS TO UL 174  
CERTIFIED TO CAN/CSA STD C22.2 NO. 110-94

The hydronic buffer tanks are built with 5 connections. Two connections can be piped to the chiller or boiler, and two connections can be piped to the distribution system. If piped correctly, the tank can serve as both a thermal buffer and a hydraulic separator. The chiller or boiler can be hydraulically decoupled from the distribution system. The tanks are all stainless steel construction with R-12 insulation, and an ABS jacket. Buffer tanks are available in 30, 40, 60, 80, and 115 gallon capacities.

Specify 1 ¼", 1 ½", or 2" connections.

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### Application: Chillers/ Heat Pumps/ Low Mass Boilers

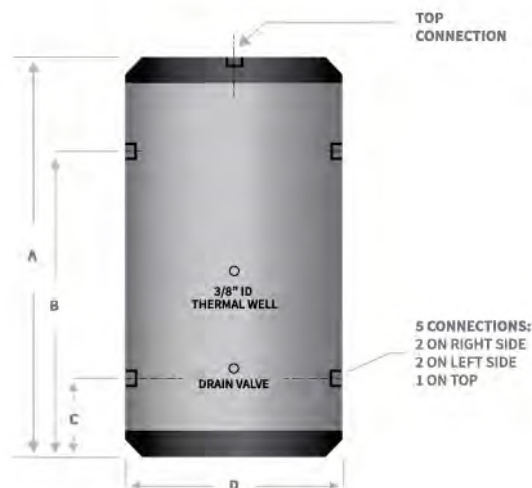


The primary application of a buffer tank is to reduce heat pump, chiller, or boiler short cycling. Hydronic buffer tanks are used in systems operating below the design load condition, which is most of the time, or in systems having several low BTU cooling or heating loads calling at different times. This can cause the chiller or heater to short cycle, resulting in reduced operating efficiency and shorter equipment life.

Specify 1 1/4, 1 1/2, or 2" connections.

The hydronic buffer tanks are built with 5 connections. Two connections can be piped to the chiller or boiler, and two connections can be piped to the distribution system. A fifth connection is available for alternate piping configurations. If piped correctly, the tank can serve as both a thermal buffer and a hydraulic separator. The chiller or boiler can be hydraulically decoupled from the distribution system. The tanks are all stainless steel construction with R-12 insulation, and an ABS jacket. Buffer tanks are available in 22, 40, 60, 80, and 115 gallon capacities.

Dimensions & Capacities								
	Storage Volume	Dimensions (Inches)				Piping Connections	Max. Tank Working Pressure	Approx. Shipping Wt.
Model	(Gal.)	A (Ht.)	B	C	D (Dia.)	(NPT)	(psi)	(Lbs.)
HF-30-BT	30	34.0	—	—	23.5	1 1/4"	60	77
HF-40-BT-114	40	42.0	31.0	11.0	23.5	1 1/4"	60	87
HF-40-BT-112	40	42.0	31.0	11.0	23.5	1 1/2"	60	87
HF-40-BT-2	40	42.0	31.0	11.0	23.5	2"	60	87
HF-60-BT-114	60	44.0	31.5	11.5	28.0	1 1/4"	60	115
HF-60-BT-112	60	44.0	31.5	11.5	28.0	1 1/2"	60	115
HF-60-BT-2	60	44.0	31.5	11.5	28.0	2"	60	115
HF-80-BT-114	80	54.0	40.5	11.5	28.0	1 1/4"	60	125
HF-80-BT-112	80	54.0	40.5	11.5	28.0	1 1/2"	60	125
HF-80-BT-2	80	54.0	40.5	11.5	28.0	2"	60	125
HF-115-BT-114	115	72.0	61.5	11.5	28.0	1 1/4"	60	160
HF-115-BT-112	115	72.0	61.5	11.5	28.0	1 1/2"	60	160
BT-115-BT-2	115	72.0	61.5	11.5	28.0	2"	60	160



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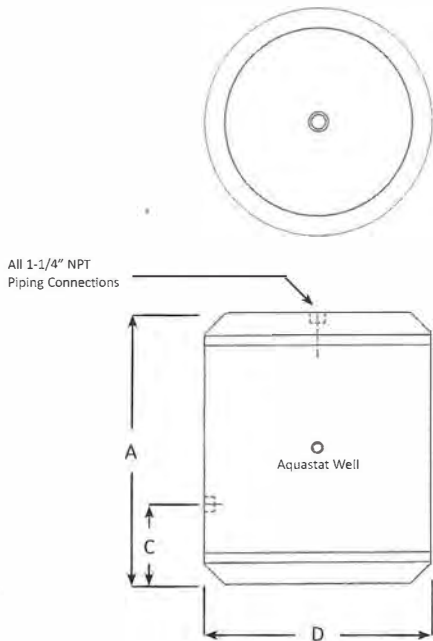
### HF-22-BT

The primary application for the HF-22-BT is to reduce low-mass modulating, condensing boiler short cycling. The high and low left side connections are used for boiler supply and return. The top connection is used to supply the distribution system and the low right connection is the return from the distribution system. If the top connection is piped to the line supplying the air purger and vent, the tank will be self-venting.

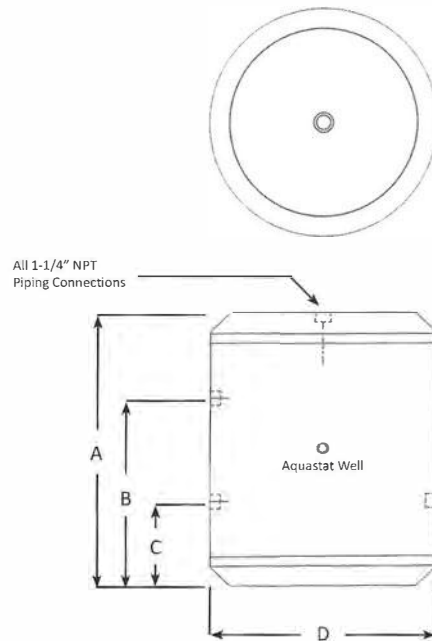
The tank is all stainless steel construction with R-12 insulation and an ABS plastic jacket.

### Dimensions and Capacities

Model	Storage Volume (Gal.)	Dimensions (Inches)				Piping Connections (NPT)	Max. Tank Working Pressure (psi)	Approx. Shipping Wt. (Lbs.)
		A. (Ht.)	B.	C.	D. (Dia.)			
HF-22-BT-2	22	24.5	--	8.0	22.5	1-1/4"	60	35
HF-22-BT-4	22	24.5	15.0	8.0	22.5	1-1/4"	60	35



HF-22-BT-2



HF-22-BT-4