

**LAARS®**

Commercial  
Chilled Water  
Buffer Tanks



**LAARS®** 

**Heating Systems Company**

A subsidiary of **BRADFORD WHITE®** Corporation

# **Chilled Water Buffer Tanks**

*from Laars® Heating Systems Company*

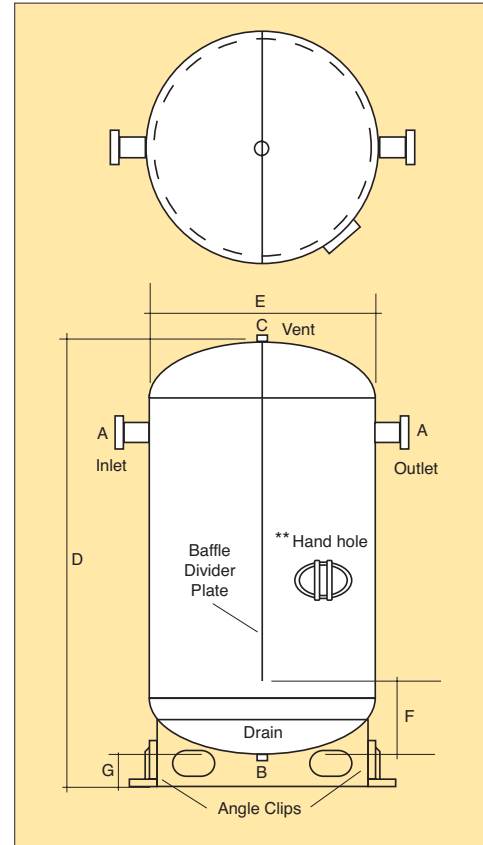
Chilled Water Buffer Tanks from Laars® Heating Systems are designed to increase water volume capacity, in relation to the chiller capacity. Low water volume systems may require additional buffer capacity to eliminate excessive chiller cycling, poor temperature control or erratic system operation. A Chilled Buffer Tank can buffer the system volume.

These tanks increase the capacity of a chilled water system and help stabilize the return water temperature. This results in fewer cycles of the compressor and better temperature control. Between three and ten gallons of total capacity in the system per nominal ton is recommended, depending on the accuracy of temperature control required. Five gallons per nominal ton is recommended for a typical air conditioning system.

- All tanks are constructed and certified in accordance with ASME section VIII, Div. I code
- Red oxide shop primer exterior
- Spray foam insulation available, R-16 value and acrylic top coat
- Custom sizes available upon request
- Can be ordered in vertical or horizontal orientation

# LAARS® CHILLED WATER BUFFER TANKS

The Laars® Chilled Water Buffer Tank provides additional water volume capacity. It helps eliminate excessive chiller cycling, poor temperature and erratic system operation. With the Laars® Chilled Water Buffer Tank you'll get a stabilized water temperature return.



## Rigid Polyurethane Foam with Acrylic Topcoat

A versatile rigid foam and acrylic sealant coating can be applied to any tank. The 100% acrylic topcoat is formulated for applications over spray polyurethane foam and is designed to withstand extreme weather and a full range of environmental conditions. The two component polyurethane foam is applied at ambient temperatures, directly to the vessel in the desired thickness. The 2-coat topcoat is then applied from a high-pressure spray gun and allowed to dry between applications.

Laars® tanks with sprayed-on rigid insulation with acrylic topcoat exceeds ASHRAE 90.1 requirements with 2.25" of high-density polyurethane foam with an "R" value of R-16. SPF meets requirements for California Title 24. Laars® spray foam insulation has the best fire spread rating with a class I foam with less than a 25-flame spread rating suitable for boiler room applications.

## Laars® Chilled Water Buffer Tanks

Model Number	Capacity		A		B		C		D		E		F		G		Approx. Weight Lbs.	
			Inlet/Outlet		Drain		Vent		Floor to Top of Heater		Jacket Diameter							
	Gal.	Liters	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	Lbs.	Kg.
BT-VNB-24-078-XCSX-XX	130	330	2 NPT	5	1	2	1	2	78	198	24	61	20	51	6	15	375	170
BT-VNB-30 083-XCSX-XX	210	533	3 FIG	8	1	2	1	2	83	211	30	76	24	61	6	15	425	193
BT-VNB-36 078-XCSX-XX	300	762	4 FIG	10	1	2	1	2	78	198	36	91	24	61	6	15	633	287
BT-VNB-36 100-XCSX-XX	400	1016	4 FIG	10	1	2	1	2	100	254	36	91	30	76	6	15	715	324
BT-VNB-48 083-HCSX-XX	528	1341	6 FIG	15	1	2	1	2	83	211	48	122	31	79	6	15	1150	522
BT-VNB-54 102-HCSX-XX	850	2159	6 FIG	15	1	2	1	2	102	259	54	137	32	81	6	15	1630	739
BT-VNB-60 102-HCSX-XX	1040	2642	8 FIG	20	1	2	1	2	102	259	60	152	32	81	6	15	2280	1034

\*\* Hand holes required on tanks above 36" diameter

Designed to ASME code.



View our entire product line at [www.Laars.com](http://www.Laars.com)



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