

Technical Data Sheet

AERCO Buffer Tank

AERCO buffer tanks are ASME certified pressure vessel designed for use with today's high efficiency systems that incorporate small, modular low-mass condensing boilers. These small volume systems have insufficient thermal mass and/or seasonal load to dampen out the peaks and valleys associated with domestic water heating loads and can induce excessive boiler cycling. The AERCO buffer tank adds thermal mass to the system to dampen fast transitions and minimize boiler cycling that occurs during zero or low domestic load conditions.

AERCO Benchmark Boilers can be installed with a 2-port buffer tank while the Modulex boilers shall be installed with a 4-port primary-secondary buffer tank (see AERCO SmartPlate Application Guide - Boiler System Interface, document SP-1010 for details).

Specifications

- Constructed in accordance with ASME Code Section VIII
- Maximum working pressure: 125 psig @ 450°F
- Maximum Flow rate:

2" NPT	55 gpm
3" NPT	125 gpm
4" 150 lb. Flanged	200 gpm
6" 150 lb. Flanged	450 gpm

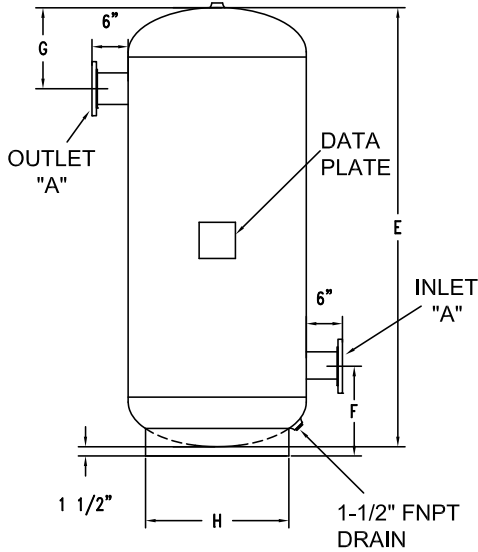
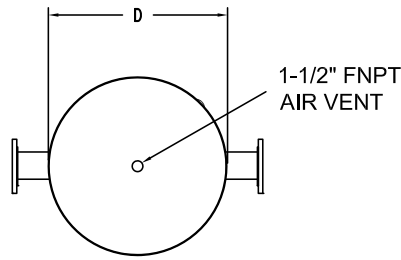
If seismic restraints are required, please consult the factory.

Features

- Available in two configurations:
 - 2-port Buffer Tank
 - 4-port Primary-Secondary
- Available in three sizes:
 - 104 gallons
 - 210 gallons
 - 289 gallons
- Vertical orientation promotes natural stratification
- Connections for air vent and drain
- One-year limited warranty against failures resulting from defects in material and workmanship



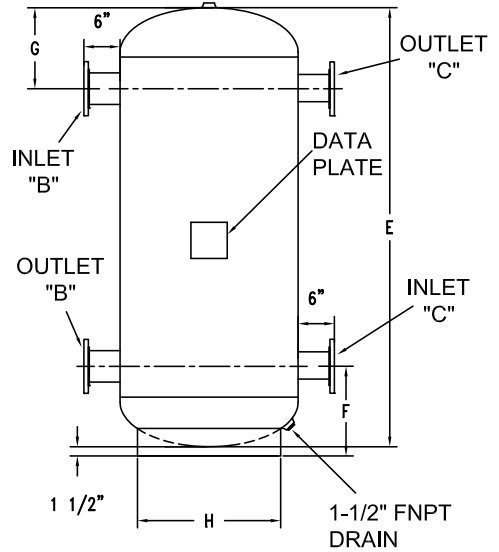
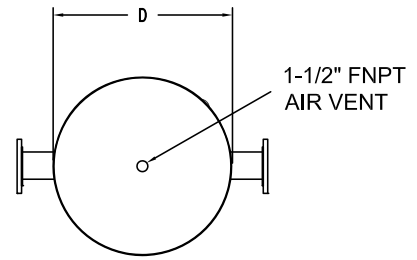
Dimensions



2-PORT BUFFER TANK

DIMENSION "A"	DIMENSION "A"
2" FNPT	2" FNPT
3" FNPT	3" FNPT
4" 150-LB FLG	4" 150-LB FLG
6" 150-LB FLG	6" 150-LB FLG

VOLUME	D	E	F	G	H	WEIGHT (LBS)	
						EMPTY	FLOODED
104 GAL.	24"	58-1/2"	13"	11-1/2"	20"	398	1398
210 GAL.	30"	73-1/2"	15"	13-1/2"	24"	563	2312
289 GAL.	36"	70-1/2"	16-1/2"	15"	30"	715	3214



PRIMARY-SECONDARY BUFFER TANK

DIMENSION "B"	DIMENSION "C"
2" FNPT	2" FNPT
2" FNPT	3" FNPT
2" FNPT	4" 150-LB FLG
2" FNPT	6" 150-LB FLG
3" FNPT	3" FNPT
3" FNPT	4" 150-LB FLG
3" FNPT	6" 150-LB FLG
4" 150-LB FLG	4" 150-LB FLG
4" 150-LB FLG	6" 150-LB FLG



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