

BUFFER TANK HYDRAULIC SEPARATOR

A Buffer Tank/Hydraulic Separator is designed to maximize the run time and limit the on/off cycling of a boiler while separating the boiler flow from the system flow. In applications where the minimum system load is less than the minimum output of the boiler, there is high propensity for the boiler to excessively cycle on and off due to the fact that the boiler is delivering more BTU's than the system is requiring. In this case, the Buffer Tank is designed to act as a "battery" for BTU's. The system demand is met by using the BTU's that are already stored in the tank and thus delaying the boiler from initiating a heating cycle until a minimum run time can be accomplished.

The Hydraulic Separator aspect of the tank is designed to de-couple the hydronic heating system flow from the boiler flow by acting as a "separator" so that the two independent flows do not affect one another. When the system flow is less than the minimum required boiler flow there will likely be erratic system delivery temperatures and excessive boiler cycling. These adverse affects can cause premature component failure, and in most cases, boiler efficiency will be adversely affected.

STANDARD EQUIPMENT

- ASME Sec. VIII U Stamp
- 125 psi Working Pressure
- Automatic Air Vent
- Flange or NPT Connections
- Pre-painted Jacket
- 2" HCFC Free Foam Insulation

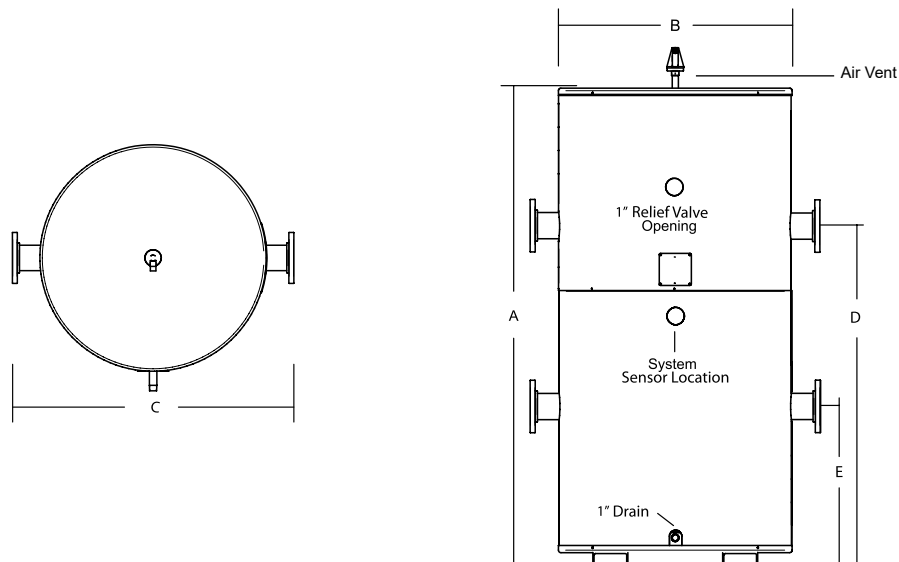
OPTIONAL EQUIPMENT

- Temperature Gauge
- Pressure Gauge
- Handhole
- Manway (300 gallons and larger)
- Custom Tapping Diameters
- Extra Tappings
- Custom Tank Sizes
- Relief Valve (Shipped Loose)
- Lifting Lugs
- 150 or 160 psi Working Pressure

5- YEAR LIMITED WARRANTY



BUFFER TANK / HYDRAULIC SEPARATOR DIMENSIONS AND SPECIFICATIONS



DIMENSIONS AND SPECIFICATIONS

HYDRAULIC SEPARATOR BUFFER TANK W/ UPPER OR LOWER CONNECTIONS								
MODEL NUMBER	CAPACITY USG (L)	A IN (CM)	B IN (CM)	C IN (CM)	D IN (CM)	E IN (CM)	STANDARD CONNECTION	WEIGHT LB (KG)
ABV*-120	120 (454)	59-1/2 (151)	32 (81)	32 (81)	43-3/4 (111)	19-3/4 (50)	3" NPT	500 (227)
ABV*-200	200 (757)	89-1/2 (227)	32 (81)	32 (81)	73-3/4 (187)	19-3/4 (50)	3" NPT	900 (408)
ABV*-325	318 (1,204)	80 (203)	40 (102)	50 (127)	57-1/2 (146)	26-1/2 (67)	4" Flange	1,290 (585)
ABV*-450	432 (1,635)	80 (203)	46 (117)	56 (142)	55 (140)	29 (74)	6" Flange	1,626 (738)
ABV*-500	500 (1,893)	91 (231)	46 (117)	56 (142)	66 (168)	29 (74)	6" Flange	1,765 (801)
ABV*-750	750 (2,839)	104 (264)	52 (132)	62 (157)	77 (196)	31 (79)	6" Flange	2,330 (1,057)
ABV*-1000	1,000 (3,785)	128 (325)	52 (132)	62 (157)	101 (257)	31 (79)	6" Flange	3,010 (1,365)

Notes: Custom Sizes and Configurations are Available, consult Factory for details.
Additional Recirculation & Supply/Return Connections Sizes Available, consult Factory for details.

OPTIONAL CONNECTIONS

FLANGED CONNECTIONS	BOLT PATTERN
3"	325 - 1,000 only
4"	
5"	
6"	
8"	
10"	
EXTRA TAPPINGS	
1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"	

OPTION CODE:	
ABVU-120-3NTM	M = 150 psi; 6 = 160 psi
	T = T&P Gauge; S = Seismic; Z = T&P Gauge + Seismic
	N = NPT; C = Bolting Flange
	Number = inch size
	4 = 4 Connections (Upper and Lower); L = Lower Connections; U = Upper Connections