



A surge tank increases the storage capacity of boiler feed system. It performs similar function to a boiler feed unit except it feeds a deaerator instead of a boiler. A surge tank is typically used on systems having more than 20% hot condensate returns.

Surge tanks are used to measure liquid flow rate and the combined shrinkage and meter factor. They are also used as a second stage separator, and hold a constant back-pressure by using an automatic pressure control valve on the gas outlet. Surge tanks are also used for storage.

MODEL NUMBER	A	B	C	D	SYSTEM CAPACITY (Bir HP)	SYSTEM CAPACITY (pph)	STORAGE CAPACITY TO OVERFLOW (gal.)	MINUTES OF STORAGE CAPACITY TO OVERFLOW	APPROX. SHIPPING WEIGHT (lbs.)
1 ST	24"	60"	22 3/4"	61"	100	3,450	120	17.4	403
2 ST	30"	72"	22 1/2"	73"	200	6,900	220	16.0	730
3 ST	48"	48"	40"	49"	300	10,350	376	18.2	1,128
4 ST	48"	60"	40"	60"	400	13,800	470	17.0	1,289
6 ST	48"	84"	60"	85"	600	20,700	658	15.9	1,611
8 ST	48"	108"	60"	109"	800	27,600	846	15.3	1,933
10 ST	60"	96"	92"	92"	1,000	34,500	1,175	17.0	2,366
12 ST	60"	108"	104"	104"	1,200	41,400	1,322	16.0	2,567
15 ST	72"	96"	92"	92"	1,500	51,750	1,692	16.3	3,020
18 ST	72"	108"	104"	104"	1,800	62,100	1,904	15.3	3,262
21 ST	72"	120"	116"	116"	2,100	72,450	2,115	14.6	3,504

Surge Tank

DWG-ST



Pressurized and Atmospheric Deaerators

Industrial Steam

1403 SW 7th Street, Atlantic, Iowa 50022
 TEL (712) 243-5300 FAX (712) 243-3440

industrialsteam.com