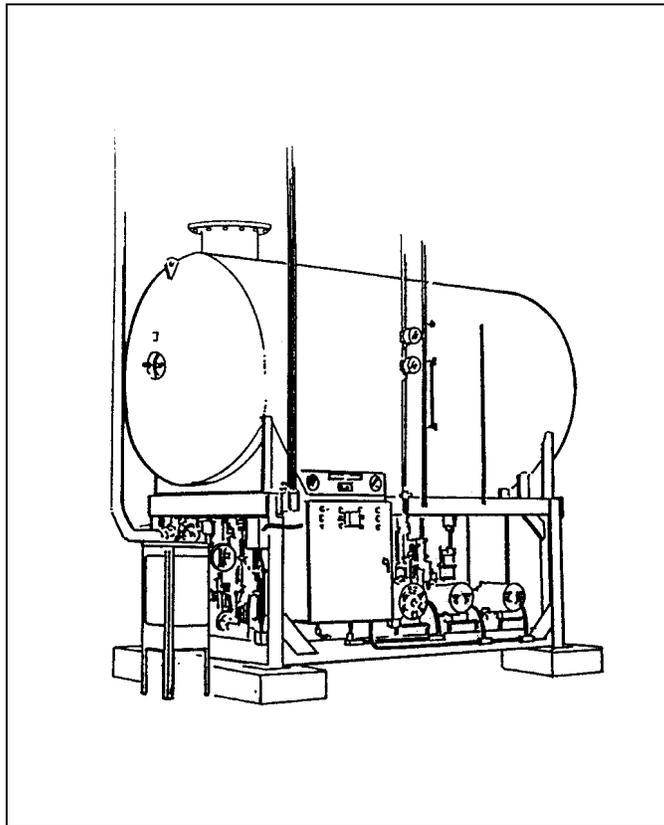
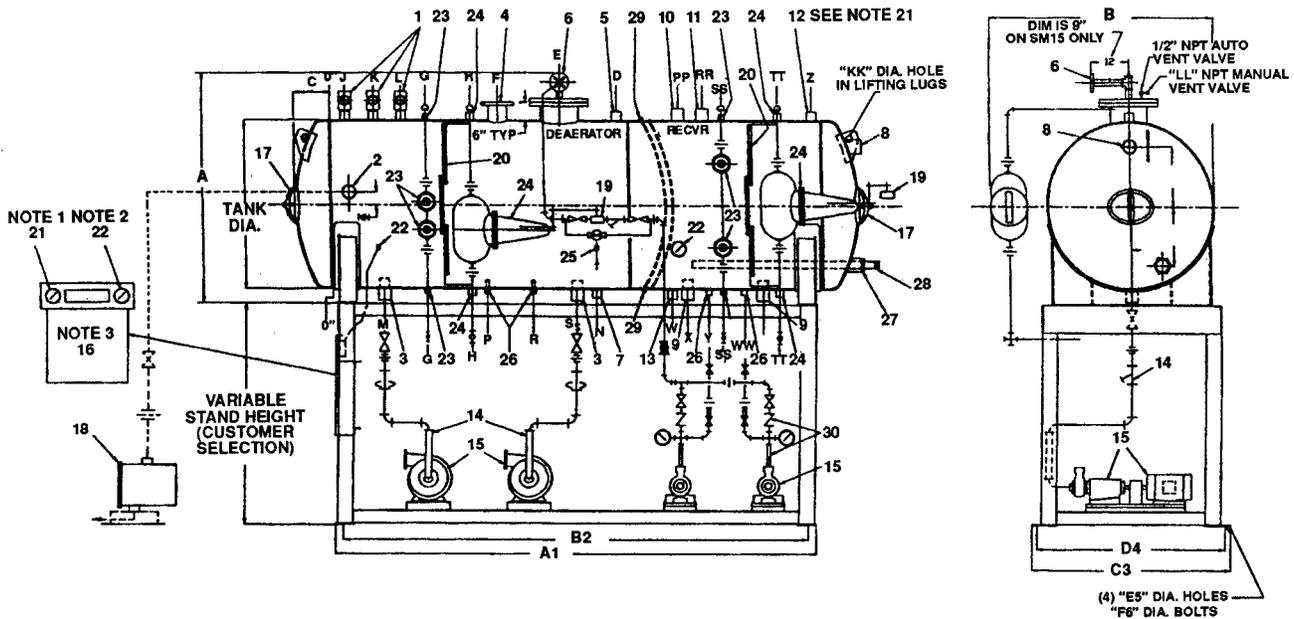


SPRAYMASTER CLASSIC DEAERATORS (Duo Tank)



Dimensions and Ratings

Figure 1a. Spraymaster Duo Dimensions (sheet 1 of 3)



NOTES:

1. Mounted at dim. "H" (top of tank) on non-packaged units.
2. Tank mounted on non-packaged unit.
3. Packaged units only. Mounted on left end, right side of stand on 48" dia. 450 gal, 66" dia. 1400 gal & 72" dia. 2000 gal units as shown.
4. Suction piping includes strainer, gate valve and flexible connector.
5. Discharge piping includes gate valve, check valve, control valve, by-pass orifice, and pressure gauge.
6. All couplings are 3000# F.S.
7. All flanges are 150# F.F. except as noted.
8. Two water and steam inlets used, one shown.
9. Customer to plug all fittings not being used.
10. Mount tank above pump at elevation necessary for static head including safe allowance for piping friction as approved by pump manufacturer.
11. Deaerator section of tank is built to ASME Code.
12. Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction by certified dimension prints.
13. Add suffix "P" to Model no. for packaged units (SDP-45).
14. Optional tanks available for 5 minutes storage (except SDP-7 & SDP-15), other combinations of capacities as required - contact your local Cleaver-Brooks authorized representative.
15. Using Warren #377 float cage (except SM7 which uses MCD-M #51), dimension "B" may change with other controls - contact your local Cleaver-Brooks authorized representative.
16. No interconnecting piping or wiring furnished on non-packaged units unless specified, contact your local Cleaver-Brooks authorized representative for specific piping or wiring furnished on packaged assemblies.
17. Weights shown are without controls or packaging - contact your local Cleaver-Brooks authorized representative for additions.
18. Capacities other than shown as standard available by proper selection of controls - contact your local Cleaver-Brooks authorized representative.
19. Optional tank sizes and ratings available - contact your local Cleaver-Brooks authorized representative.
20. Lifting lugs are for lifting empty tank only.
21. Raw water make-up should first pass through a water softener if hardness is present.
22. All dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction by certified dimensional prints.

Figure 1b. Spraymaster Duo Dimensions (sheet 2 of 3)

STORAGE TANK DETAIL AND DIMENSIONS										
SPRAYMASTER MODEL NO.	SM-7D	SM-15D	SM-30D	SM-45D	SM-70D	SM-100D	SM-140D	SM-200D ⁸	SM-280D ⁸	
Ratings (lb/h)	7000	15000	30000	45000	70000	100000	140000	200000	280000	
Tank Weight (lbs)	1530	2500	3650	4500	6770	8810	10760	12975	18735	
Tank Weight Flooded (lbs)	5165	10835	17720	24440	38450	52310	68045	80290	106475	
Tank Cap-Deaerator (Gal to Overflow)	230	300	600	900	1400	2000	2800	4000	5600	
Storage Cap (Min)	16	10	10	10	10	10	10	10	10	
Tank Cap-Rec Section (Gal to Flooded)	160	300	600	900	1400	2000	2800	4000	5600	
Storage Cap (Min)	11.5	10	10	10	10	10	10	10	10	
Tank Size (Dia x Length)	36 x 106-1/2	48 x 141-1/2	54 x 181	60 x 207	66 x 270-1/2	72 x 302	84 x 302-1/4	96 x 308-3/4	108 x 349	
A Overall Height	58	66-1/2	74-1/2	80-1/2	88	96-1/2	109	120-1/2	133	
B Overall Width	51	62	68	75	80	87	99	111	123	
C	8-1/2	10-1/2	11-1/2	12-1/2	13-1/2	14-1/2	16-1/2	18-5/8	20-3/4	
D	28-1/2	72-1/2	92-1/2	101	146	164	146	4 136	4 153	
E	43	54-1/2	74	83	124	142	124	24 116	24 133	
F	48-1/2	34-1/2	54	63	104	122	104	44 96	48 109	
G	11	16	31	42	68	68	73	60	59	
H	21	26	45	54	80	104	86	82	98	
J	Contact Your Local Cleaver-Brooks Authorized Representative									
K	Contact Your Local Cleaver-Brooks Authorized Representative									
L	Contact Your Local Cleaver-Brooks Authorized Representative									
M	Contact Your Local Cleaver-Brooks Authorized Representative									
N	52	56	90	102	144	164	147	130	144	
P	N/A	31	50	32	35	36	28	35	28	
R	N/A	47	65	74	115	132	126	106	123	
S	Consult Your Local Cleaver-Brooks Authorized Representative									
T	38	60	90	27	27	32	27	36	27	
W	64	90	109	126	169	224	205	160	186	
X	Consult Your Local Cleaver-Brooks Authorized Representative									
Y	69	95	120	145	198	192	177	196	196	
z	85	115	155	171	230	266	258	258	249	
KK	2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-3/4	2-3/4	
LL	1/2	3/4	3/4	3/4	1	1-1/2	2	2 @ 1-1/2	2 @ 2	
MM	3	6	6	10	6	6	8	12	12	
NN	10	C _L	4	7	6-1/2	8	14-1/2	26-1/2	27-1/2	
PP	68	94	112	127	180	197	173	175	191	
RR	74	101	120	133	200	227	205	201-1/2	211	
SS	72	95	126	138	188	214	183	190	229	
TT	82	109	144	160	218	243	232	213	249	
W W	75	108	132	153	208	267	249	206	279	
XX	Consult Your Local Cleaver-Brooks Authorized Representative									
YY	12	16	19	22	24	27	31	36	40	
ZZ	10	12-1/2	16	19-1/2	22	25	30	34-1/2	40	

Figure 1c. Spraymaster Duo Dimensions (sheet 3 of 3)

STAND BASE DIMENSIONS										
	TANK CAPACITY (GAL)	230	300	600	900	1400	2000	2800	4000	5600
A1	Outside Length	87	115	154	175-1/2	237-1/2	276	268	144	297
B2	C _L to C _L Anchor Bolt Holes	82	110	148	169-1/2	230-1/2	269	265	137	294
C3	Outside Width	49	62	66	71	76	81	86-1/2	102	112
D4	C _L to C _L Anchor Bolt Holes	46	59	63	68	73	78	79-1/2	99	101
E5		3/4	1	1	1	1-1/8	1-1/8	1-1/8	1-1/8	1-1/8
F6		5/6	7/8	7/8	7/8	1	1	1	1	1
TANK CONNECTION SIZES										
1	Relief-Valve(s)	Contact Your Local Cleaver-brooks Authorized Representative								
2	Overflow (Dea)	1-1/4 NPT	3 NPT	3 NPT	3 NPT	4 FLG	4 FLG	4 FLG	6 FLG	6 FLG
3	Pump Suction (Optional)	Contact Your Local Cleaver-Brooks Authorized Representative								
4	Steam Inlet (Dea Flg)	3	6	6	6	6	6	8	2 @ 6	2 @ 8
5	High Temp Return	1-1/4 NPT	1-1/2 NPT	2 NPT	2 NPT	3 NPT	3 NPT	3 NPT	2 @ 3 NPT	2 @ 3 NPT
6	Water Inlet (150# RF Flg)	1 NPT	1-1/2	2	2	2-1/2	3	4	2 @ 3	2 @ 4
7	Drain (Dea)	1-1/4 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT
8	Overflow (Rec)	2 NPT	2 NPT	2 NPT	3 NPT	3 NP	3 NPT	4 NPT	4 NPT	6 NPT
9	Pump Suction (Optional)	Contact Your Local Cleaver-Brooks Authorized Representative								
10	Vent (Rec)	3 NPT	3 NPT	3 NPT	3 NPT	4 NPT	4 NPT	4 NPT	4 NPT	6 NPT
11	Low Pressure Return (Rec)	2 NPT	2 NPT	3 NPT	3 NPT	3 NPT	3 NPT	4NPT	4 NPT	6 NPT
12	Cold Water Inlet (Rec)	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	3 NPT
13	Drain (Rec)	1-1/4 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT	2 NPT
ITEM LIST										
14	Suction Pump, (optional) (For each pump) (Note 4)									
15	Pump/Motor, (optional)									
16	Control Panel, (optional)									
17	Manway 11 x 15									
18	Overflow Drainer, (optional)									
19	Make-Up Valve, (optional)									
20	Gauge Glass Assembly									
21	Pressure Gauge									
22	Thermometer (3/4 NPT)									
23	Level Alarms (1 NPT), (optional)									
24	Level Control (1-1/2 NPT), (optional)									
25	Sample Connection (1/2 NPT)									
26	Recirculation Connection (1 NPT), (optional) (For each pump)									
27	High Temp Return Connection-Rec (3 NPT)									
28	Diffuser Tube (2-1/2 NPT, (optional)									
29	Breather Connection (1/2 NPT -Do Not Plug)									
30	Discharge Piping, (optional) (For each pump) (NOTE 5)									
								Sizes listed for items 22 thru 29 are for tank connections only.		