POLY-SOURCE INDUSTRIES INC.
Tel: (604) 888-3505 Fax: (604) 888-3503

TANK INSULATION RMC CALCULATOR - HXP2/HXP3 EXAMPLE (TYPICAL)

Tank Size (BBL)	Foam (in.)	Diameter (ft.)	Height (ft.)	Area ($ft.^2$)	Board Feet	Density (FRD)	Yield (BF/1000lb)	Strokes (HXP2/HXP3)	$ / lb (fob Calg.)	$ / tank (RMC)
	1.5	6.031	6	170.88	256.33	2.5 PCF	3350	182	2.395	183.25
30	**2.0**	6.031	6	170.88	341.77	2.5 PCF	3350	243	2.395	244.34
(SGL)	**2.5**	6.031	6	170.88	427.21	2.5 PCF	3350	304	2.395	305.42
	1.5	6.531	6	190.18	285.28	2.5 PCF	3350	203	2.395	203.95
30	**2**	6.531	6	190.18	380.37	2.5 PCF	3350	270	2.395	271.93
(DBL)	**2.5**	6.531	6	190.18	475.46	2.5 PCF	3350	338	2.395	339.92
	1.5	7.667	6	236.95	355.43	2.5 PCF	3350	253	2.395	254.10
50	**2**	7.667	6	236.95	473.90	2.5 PCF	3350	337	2.395	338.80
(SGL)	**2.5**	7.667	6	236.95	592.38	2.5 PCF	3350	421	2.395	423.51
	1.5	8.031	6	252.79	379.19	2.5 PCF	3350	270	2.395	271.09
50	**2**	8.031	6	252.79	505.59	2.5 PCF	3350	359	2.395	361.46
(DBL)	**2.5**	8.031	6	252.79	631.99	2.5 PCF	3350	449	2.395	451.82
	1.5	9.531	8	382.39	573.58	2.5 PCF	3350	408	2.395	410.07
100	**2**	9.531	8	382.39	764.77	2.5 PCF	3350	544	2.395	546.75
(SGL)	**2.5**	9.531	8	382.39	955.96	2.5 PCF	3350	679	2.395	683.44
	1.5	10.031	8	410.33	615.49	2.5 PCF	3350	437	2.395	440.03
100	**2**	10.031	8	410.33	820.65	2.5 PCF	3350	583	2.395	586.71
(DBL)	**2.5**	10.031	8	410.33	1025.82	2.5 PCF	3350	729	2.395	733.38
	1.5	12.031	10	605.57	908.36	2.5 PCF	3350	646	2.395	649.41
200	**2**	12.031	10	605.57	1211.15	2.5 PCF	3350	861	2.395	865.88
	2.5	12.031	10	605.57	1513.93	2.5 PCF	3350	1076	2.395	1082.35
	1.5	12.031	20	983.69	1475.54	2.5 PCF	3350	1049	2.395	1054.90
400	**2**	12.031	20	983.69	1967.38	2.5 PCF	3350	1398	2.395	1406.53
	2.5	12.031	20	983.69	2459.23	2.5 PCF	3350	1748	2.395	1758.16
	1.5	15.281	16	951.89	1427.83	2.5 PCF	3350	1015	2.395	1020.79
500	**2**	15.281	16	951.89	1903.77	2.5 PCF	3350	1353	2.395	1361.06
	2.5	15.281	16	951.89	2379.72	2.5 PCF	3350	1691	2.395	1701.32
	1.5	15.281	24	1336.10	2004.14	2.5 PCF	3350	1424	2.395	1432.81
750	**2**	15.281	24	1336.10	2672.19	2.5 PCF	3350	1899	2.395	1910.42
	2.5	15.281	24	1336.10	3340.24	2.5 PCF	3350	2374	2.395	2388.02
	1.5	21.281	16	1425.97	2138.95	2.5 PCF	3350	1520	2.395	1529.19
1000	**2**	21.281	16	1425.97	2851.93	2.5 PCF	3350	2027	2.395	2038.92
(LP)	**2.5**	21.281	16	1425.97	3564.91	2.5 PCF	3350	2534	2.395	2548.65
	1.5	17.281	24	1538.12	2307.18	2.5 PCF	3350	1640	2.395	1649.46
1000	**2**	17.281	24	1538.12	3076.24	2.5 PCF	3350	2186	2.395	2199.28
(MP)	**2.5**	17.281	24	1538.12	3845.30	2.5 PCF	3350	2733	2.395	2749.10
	1.5	15.281	32	1720.30	2580.45	2.5 PCF	3450	1781	2.395	1791.36
1000	**2**	15.281	32	1720.30	3440.61	2.5 PCF	3450	2374	2.395	2388.48
(HP)	**2.5**	15.281	32	1720.30	4300.76	2.5 PCF	3350	3057	2.395	3074.72
	1.5	21.531	24	1988.30	2982.45	2.5 PCF	3350	2120	2.395	2132.23
1500	**2**	21.531	24	1988.30	3976.59	2.5 PCF	3350	2826	2.395	2842.97
	2.5	21.531	24	1988.30	4970.74	2.5 PCF	3350	3533	2.395	3553.71
	1.5	21.531	32	2529.65	3794.47	2.5 PCF	3350	2697	2.395	2712.76
2000	**2**	21.531	32	2529.65	5059.30	2.5 PCF	3350	3596	2.395	3617.02
	2.5	21.531	32	2529.65	6324.12	2.5 PCF	3350	4495	2.395	4521.27
	1.5	23.531	32	2801.60	4202.40	2.5 PCF	3350	2987	2.395	3004.41
2500	**2**	23.531	32	2801.60	5603.21	2.5 PCF	3350	3982	2.395	4005.87
	2.5	23.531	32	2801.60	7004.01	2.5 PCF	3350	4978	2.395	5007.34

Notes:
1. Confirm correct tank size
2. Confirm correct foam density
3. Tanks 400 BBL & less include wall, roof & base insulation
4. Tanks greater than 400 BBL include walls & roof insulation only
5. HXP2/HXP3 = 0.042 USG / cycle
6. Nominal system SG = 1.00 = 10.0lbs/USG

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TANK INSULATION RMC CALCULATOR - HXP2/HXP3 EXAMPLE (TYPICAL)

Tank Size (BBL)	Foam (in.)	Diameter (ft.)	Height (ft.)	Area ($ft.^2$)	Board Feet	Density (FRD)	Yield (BF/1000lb)	Strokes (HXP2/HXP3)	$ / lb (fob Calg.)	$ / tank (RMC)
	1.5	6.031	6	170.88	256.33	2.3 PCF	3650	167	2.395	168.19
30	2.0	6.031	6	170.88	341.77	2.3 PCF	3650	223	2.395	224.26
(SGL)	2.5	6.031	6	170.88	427.21	2.3 PCF	3650	279	2.395	280.32
	1.5	6.531	6	190.18	285.28	2.3 PCF	3650	186	2.395	187.19
30	2	6.531	6	190.18	380.37	2.3 PCF	3650	248	2.395	249.58
(DBL)	2.5	6.531	6	190.18	475.46	2.3 PCF	3650	310	2.395	311.98
	1.5	7.667	6	236.95	355.43	2.3 PCF	3650	232	2.395	233.22
50	2	7.667	6	236.95	473.90	2.3 PCF	3650	309	2.395	310.96
(SGL)	2.5	7.667	6	236.95	592.38	2.3 PCF	3650	386	2.395	388.70
	1.5	8.031	6	252.79	379.19	2.3 PCF	3650	247	2.395	248.81
50	2	8.031	6	252.79	505.59	2.3 PCF	3650	330	2.395	331.75
(DBL)	2.5	8.031	6	252.79	631.99	2.3 PCF	3650	412	2.395	414.69
	1.5	9.531	8	382.39	573.58	2.3 PCF	3650	374	2.395	376.36
100	2	9.531	8	382.39	764.77	2.3 PCF	3650	499	2.395	501.81
(SGL)	2.5	9.531	8	382.39	955.96	2.3 PCF	3650	624	2.395	627.27
	1.5	10.031	8	410.33	615.49	2.3 PCF	3650	401	2.395	403.86
100	2	10.031	8	410.33	820.65	2.3 PCF	3650	535	2.395	538.48
(DBL)	2.5	10.031	8	410.33	1025.82	2.3 PCF	3650	669	2.395	673.10
	1.5	12.031	10	605.57	908.36	2.3 PCF	3650	593	2.395	596.03
200	2	12.031	10	605.57	1211.15	2.3 PCF	3650	790	2.395	794.71
	2.5	12.031	10	605.57	1513.93	2.3 PCF	3650	988	2.395	993.39
	1.5	12.031	20	983.69	1475.54	2.3 PCF	3650	963	2.395	968.19
400	2	12.031	20	983.69	1967.38	2.3 PCF	3650	1283	2.395	1290.93
	2.5	12.031	20	983.69	2459.23	2.3 PCF	3650	1604	2.395	1613.66
	1.5	15.281	16	951.89	1427.83	2.3 PCF	3650	931	2.395	936.89
500	2	15.281	16	951.89	1903.77	2.3 PCF	3650	1242	2.395	1249.19
	2.5	15.281	16	951.89	2379.72	2.3 PCF	3650	1552	2.395	1561.49
	1.5	15.281	24	1336.10	2004.14	2.3 PCF	3650	1307	2.395	1315.05
750	2	15.281	24	1336.10	2672.19	2.3 PCF	3650	1743	2.395	1753.40
	2.5	15.281	24	1336.10	3340.24	2.3 PCF	3650	2179	2.395	2191.75
	1.5	21.281	16	1425.97	2138.95	2.3 PCF	3650	1395	2.395	1403.50
1000	2	21.281	16	1425.97	2851.93	2.3 PCF	3650	1860	2.395	1871.34
(LP)	2.5	21.281	16	1425.97	3564.91	2.3 PCF	3650	2325	2.395	2339.17
	1.5	17.281	24	1538.12	2307.18	2.3 PCF	3650	1505	2.395	1513.89
1000	2	17.281	24	1538.12	3076.24	2.3 PCF	3650	2007	2.395	2018.52
(MP)	2.5	17.281	24	1538.12	3845.30	2.3 PCF	3650	2508	2.395	2523.15
	1.5	15.281	32	1720.30	2580.45	2.3 PCF	3650	1683	2.395	1693.20
1000	2	15.281	32	1720.30	3440.61	2.3 PCF	3650	2244	2.395	2257.60
(HP)	2.5	15.281	32	1720.30	4300.76	2.3 PCF	3650	2805	2.395	2822.00
	1.5	21.531	24	1988.30	2982.45	2.3 PCF	3650	1945	2.395	1956.97
1500	2	21.531	24	1988.30	3976.59	2.3 PCF	3650	2594	2.395	2609.30
	2.5	21.531	24	1988.30	4970.74	2.3 PCF	3650	3242	2.395	3261.62
	1.5	21.531	32	2529.65	3794.47	2.3 PCF	3650	2475	2.395	2489.80
2000	2	21.531	32	2529.65	5059.30	2.3 PCF	3650	3300	2.395	3319.73
	2.5	21.531	32	2529.65	6324.12	2.3 PCF	3650	4125	2.395	4149.66
	1.5	23.531	32	2801.60	4202.40	2.3 PCF	3650	2741	2.395	2757.47
2500	2	23.531	32	2801.60	5603.21	2.3 PCF	3650	3655	2.395	3676.62
	2.5	23.531	32	2801.60	7004.01	2.3 PCF	3650	4569	2.395	4595.78

Notes:
1. Confirm correct tank size
2. Confirm correct foam density
3. Tanks 400 & less BBL include wall, roof & base insulation
4. Tanks greater than 400 BBL include walls & roof insulation only
5. HXP2/HXP3 = 0.042 USG / cycle
6. Nominal system SG = 1.00 = 10.0lbs/USG

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Tank Size (BBL)	Foam (in.)	Diameter (ft.)	Height (ft.)	Area ($ft.^2$)	Board Feet	Density (FRD)	Yield (BF/1000lb)	Strokes (HXP2/HXP3)	$ / lb (fob Calg.)	$ / tank (RMC)
	1.5	6.031	6	170.88	256.33	2.0 PCF	4150	147	2.395	147.93
30	**2.0**	6.031	6	170.88	341.77	2.0 PCF	4150	196	2.395	197.24
(SGL)	**2.5**	6.031	6	170.88	427.21	2.0 PCF	4150	245	2.395	246.55
	1.5	6.531	6	190.18	285.28	2.0 PCF	4150	164	2.395	164.63
30	**2**	6.531	6	190.18	380.37	2.0 PCF	4150	218	2.395	219.51
(DBL)	**2.5**	6.531	6	190.18	475.46	2.0 PCF	4150	273	2.395	274.39
	1.5	7.667	6	236.95	355.43	2.0 PCF	4150	204	2.395	205.12
50	**2**	7.667	6	236.95	473.90	2.0 PCF	4150	272	2.395	273.49
(SGL)	**2.5**	7.667	6	236.95	592.38	2.0 PCF	4150	340	2.395	341.87
	1.5	8.031	6	252.79	379.19	2.0 PCF	4150	218	2.395	218.83
50	**2**	8.031	6	252.79	505.59	2.0 PCF	4150	290	2.395	291.78
(DBL)	**2.5**	8.031	6	252.79	631.99	2.0 PCF	4150	363	2.395	364.72
	1.5	9.531	8	382.39	573.58	2.0 PCF	4150	329	2.395	331.02
100	**2**	9.531	8	382.39	764.77	2.0 PCF	4150	439	2.395	441.36
(SGL)	**2.5**	9.531	8	382.39	955.96	2.0 PCF	4150	548	2.395	551.69
	1.5	10.031	8	410.33	615.49	2.0 PCF	4150	353	2.395	355.20
100	**2**	10.031	8	410.33	820.65	2.0 PCF	4150	471	2.395	473.61
(DBL)	**2.5**	10.031	8	410.33	1025.82	2.0 PCF	4150	589	2.395	592.01
	1.5	12.031	10	605.57	908.36	2.0 PCF	4150	521	2.395	524.22
200	**2**	12.031	10	605.57	1211.15	2.0 PCF	4150	695	2.395	698.96
	2.5	12.031	10	605.57	1513.93	2.0 PCF	4150	869	2.395	873.70
	1.5	12.031	20	983.69	1475.54	2.0 PCF	4150	847	2.395	851.54
400	**2**	12.031	20	983.69	1967.38	2.0 PCF	4150	1129	2.395	1135.39
	2.5	12.031	20	983.69	2459.23	2.0 PCF	4150	1411	2.395	1419.24
	1.5	15.281	16	951.89	1427.83	2.0 PCF	4150	819	2.395	824.01
500	**2**	15.281	16	951.89	1903.77	2.0 PCF	4150	1092	2.395	1098.68
	2.5	15.281	16	951.89	2379.72	2.0 PCF	4150	1365	2.395	1373.36
	1.5	15.281	24	1336.10	2004.14	2.0 PCF	4150	1150	2.395	1156.61
750	**2**	15.281	24	1336.10	2672.19	2.0 PCF	4150	1533	2.395	1542.14
	2.5	15.281	24	1336.10	3340.24	2.0 PCF	4150	1916	2.395	1927.68
	1.5	21.281	16	1425.97	2138.95	2.0 PCF	4150	1227	2.395	1234.40
1000	**2**	21.281	16	1425.97	2851.93	2.0 PCF	4150	1636	2.395	1645.87
(LP)	**2.5**	21.281	16	1425.97	3564.91	2.0 PCF	4150	2045	2.395	2057.34
	1.5	17.281	24	1538.12	2307.18	2.0 PCF	4150	1324	2.395	1331.49
1000	**2**	17.281	24	1538.12	3076.24	2.0 PCF	4150	1765	2.395	1775.33
(MP)	**2.5**	17.281	24	1538.12	3845.30	2.0 PCF	4150	2206	2.395	2219.16
	1.5	15.281	32	1720.30	2580.45	2.0 PCF	4150	1480	2.395	1489.20
1000	**2**	15.281	32	1720.30	3440.61	2.0 PCF	4150	1974	2.395	1985.60
(HP)	**2.5**	15.281	32	1720.30	4300.76	2.0 PCF	4150	2467	2.395	2482.00
	1.5	21.531	24	1988.30	2982.45	2.0 PCF	4150	1711	2.395	1721.19
1500	**2**	21.531	24	1988.30	3976.59	2.0 PCF	4150	2281	2.395	2294.93
	2.5	21.531	24	1988.30	4970.74	2.0 PCF	4150	2852	2.395	2868.66
	1.5	21.531	32	2529.65	3794.47	2.0 PCF	4150	2177	2.395	2189.82
2000	**2**	21.531	32	2529.65	5059.30	2.0 PCF	4150	2903	2.395	2919.76
	2.5	21.531	32	2529.65	6324.12	2.0 PCF	4150	3628	2.395	3649.70
	1.5	23.531	32	2801.60	4202.40	2.0 PCF	4150	2411	2.395	2425.24
2500	**2**	23.531	32	2801.60	5603.21	2.0 PCF	4150	3215	2.395	3233.66
	2.5	23.531	32	2801.60	7004.01	2.0 PCF	4150	4018	2.395	4042.07

Notes:
1. Confirm correct tank size
2. Confirm correct foam density
3. Tanks 400 & less BBL include wall, roof & base insulation
4. Tanks greater than 400 BBL include walls & roof insulation only
5. HXP2/HXP3 = 0.042 USG / cycle
6. Nominal system SG = 1.00 = 10.0lbs/USG