

BP WHITING Spring / Fall

Heat Loss without Calcium insulation . 1 1/2" thick up to 450° F and 3" thick above 450° F for an ambient temperature of 60° (Spring/Fall). wind of 1 mph in Btu/ft/hr

Process Temperature(F°)

Pipe Size (inches)	150	250	350	450	550	650	750	850
2 w/insul.	21.15	45.6	72.6	103	94.83	120.1	147.6	177.4
Envirocage	150	360.8	627.8	964.1	1386	1911	2561	3356
3 w/insul.	27.78	58.66	94.64	134.4	119.5	151.5	186.2	223.9
Envirocage	200.5	491.8	867.3	1345	1949	2704	3641	4790
4 w/insul.	33.34	69.98	113	160.6	107.2	175.1	215.3	258.8
Envirocage	244.2	606.7	1079	1682	2448	3407	4600	6064
6 w/insul.	46.98	97.43	157.8	224.7	183.2	232.3	285.7	343.7
Envirocage	335.2	849.1	1525	2396	3503	4896	6629	8760
8 w/insul.	56.39	116.5	189	269.4	215.9	273.8	337	405.4
Envirocage	420.2	1077	1945	3066	4494	6292	8530	11280
10 w/insul.	65.9	135.8	220.7	314.8	259.1	328.8	404.6	487
Envirocage	510.1	1318	2390	3776	5543	7770	10540	139950
12 w/insul.	76.5	157.1	225.7	365	297	376.9	464.1	558.6
Envirocage	59.8	1545	2809	4445	6533	9165	12440	16480
14 w/insul.	88.41	180.5	294.1	420.3	330.3	419.3	516.3	621.6
Envirocage	647.7	1687	3071	4863	7151	10040	13630	18060
16 w/insul.	98.85	201.5	328.6	469.9	368.8	468.4	576.8	170.7
Envirocage	732.4	1918	3490	5532	8140	11430	15530	20580

BP Whiting Summer

Heat Loss without Calcium insulation , 1 1/2" thick up to 450°F and 3" thick above 450° F for an ambient temperature of 90°(Summer). wind of 1 mph in Btu/ft/hr

Process Temperatures (F°)

Pipe Size (inches)	150	250	350	450	550	650	750	850
2 w/insul.	14.36	40.42	69.24	101	92.67	118.5	146.7	177.1
Envirocage	101.7	309.4	574	908.6	1329	1853	2502	3269
3 w/insul.	18.88	53.15	91.1	132.9	117.3	150.1	185.7	224.4
Envirocage	135.6	421.2	792.6	1268	1869	2622	3557	4705
4 w/insul.	22.66	63.83	109.4	159.8	135.9	173.8	215.1	259.9
Envirocage	164.7	519	985.1	1585	2347	2304	4495	5958
6 w/insul.	31.96	90.11	154.7	226	181.1	231.8	286.9	346.7
Envirocage	224.9	724.9	1392	2256	3359	4748	6478	8607
8 w/insul.	38.37	108.3	186	271.8	213.8	273.7	338.8	409.4
Envirocage	280.6	917.7	1774	2886	4308	6101	8336	11090
10 w/insul.	44.85	126.6	217.6	318.1	257.4	329.5	407.9	493
Envirocage	339.5	1122	2179	3554	5314	7535	10300	13710
12 w/insul.	52.06	147.1	252.9	370	295.5	378.4	468.5	566.3
Envirocage	394.7	1315	2561	4184	6263	8889	12160	16190
14 w/insul.	60.19	170.3	293	428.9	329.5	421.9	522.5	631.7
Envirocage	429.3	1436	2799	4577	6855	9733	13320	17740
16 w/insul.	67.29	190.5	328	480.2	368.4	471.8	584.4	706.5
Envirocage	484.5	1628	3181	5207	7804	11090	15180	20230

BP Whiting Winter

Heat Loss without Calcium insulation , 1 1/2" thick up to 450°F and 3" thick above 450° F for an ambient temperature of 10°(Winter). wind of 1 mph in Btu/ft/hr

Process Temperature (F°)

Pipe Size (inches)	150	250	350	450	550	650	750	850
2 w/insul. Envirocage	31.92	57.85	86.55	118.2	104.5	130.3	158.4	188.8
	228.3	444.1	714.8	1054	1478	2005	2656	3452
3 w/insul. Envirocage	41.9	75.99	113.8	155.5	132.2	164.9	200.5	239.1
	306.7	606.9	988.8	1472	2076	2837	3775	4926
4 w/insul. Envirocage	50.26	91.21	136.6	186.8	153.1	191	232.2	276.9
	375.1	750.2	1231	1841	2611	3575	4769	6236
6 w/insul. Envirocage	70.77	128.6	193	264.1	342.3	254.6	309.6	369.3
	519.1	1053	1743	2624	3738	5136	6873	9007
8 w/insul. Envirocage	84.94	154.5	232	317.6	411.8	300.5	365.5	436
	654.1	1338	2225	3358	4795	6600	8843	11600
10 w/insul. Envirocage	99.26	180.7	271.4	371.7	289.8	361.8	440.1	525
	797.4	1640	2735	4137	5915	8150	10930	14340
12 w/insul. Envirocage	115.2	210	315.5	432.3	332.8	415.5	505.5	603.1
	932.4	1925	3216	4871	6972	9614	12900	16940
14 w/insul. Envirocage	133.2	243	365.5	501	371	463.2	563.6	672.6
	1017	2103	3516	5326	7631	10530	14130	18560
16 w/insul. Envirocage	148.9	271.9	406.1	561	414.8	518	630.3	752.2
	1152	2387	3996	6061	8687	11990	16100	21160