



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 72" Palmer-Bowlus Flume

Document: PB72-D-T Rev.: 0 Date: March 20, 2000 By: Matt Kazmier

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	Best Results Within 0.23 D (1.3800 ft.) and 0.73 D (4.3800ft.)		
1.02	12.24			
1.03	12.36			
1.04	12.48			
1.05	12.60			
1.06	12.72			
1.07	12.84			
1.08	12.96			
1.09	13.08			
1.10	13.20			
1.11	13.32			
1.12	13.44			
1.13	13.56			
1.14	13.68			
1.15	13.80			
1.16	13.92			
1.17	14.04			
1.18	14.16			
1.19	14.28			
1.20	14.40			
1.21	14.52			
1.22	14.64			
1.23	14.76			
1.24	14.88			
1.25	15.00			
1.26	15.12			
1.27	15.24			
1.28	15.36			
1.29	15.48			
1.30	15.60			
1.31	15.72			
1.32	15.84			
1.33	15.96			
1.34	16.08			
1.35	16.20			
1.36	16.32			
1.37	16.44			
1.38	16.56	17.55	7877	11.343
1.39	16.68	17.79	7986	11.501
1.40	16.80	18.04	8097	11.660
1.41	16.92	18.29	8208	11.820
1.42	17.04	18.54	8320	11.981
1.43	17.16	18.79	8432	12.143
1.44	17.28	19.04	8546	12.307
1.45	17.40	19.30	8660	12.471
1.46	17.52	19.55	8775	12.636
1.47	17.64	19.81	8890	12.803
1.48	17.76	20.07	9007	12.970
1.49	17.88	20.33	9124	13.139
1.50	18.00	20.59	9241	13.308

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.51	18.12	20.85	9360	13.479
1.52	18.24	21.12	9479	13.650
1.53	18.36	21.39	9599	13.823
1.54	18.48	21.66	9719	13.996
1.55	18.60	21.93	9841	14.171
1.56	18.72	22.20	9963	14.347
1.57	18.84	22.47	10085	14.524
1.58	18.96	22.75	10209	14.701
1.59	19.08	23.02	10333	14.880
1.60	19.20	23.30	10458	15.060
1.61	19.32	23.58	10584	15.241
1.62	19.44	23.86	10710	15.423
1.63	19.56	24.15	10837	15.606
1.64	19.68	24.43	10965	15.790
1.65	19.80	24.72	11093	15.975
1.66	19.92	25.01	11222	16.161
1.67	20.04	25.29	11352	16.348
1.68	20.16	25.59	11483	16.536
1.69	20.28	25.88	11614	16.725
1.70	20.40	26.17	11746	16.916
1.71	20.52	26.47	11879	17.107
1.72	20.64	26.77	12013	17.299
1.73	20.76	27.07	12147	17.492
1.74	20.88	27.37	12282	17.687
1.75	21.00	27.67	12417	17.882
1.76	21.12	27.97	12554	18.078
1.77	21.24	28.28	12691	18.276
1.78	21.36	28.58	12829	18.474
1.79	21.48	28.89	12967	18.673
1.80	21.60	29.20	13106	18.874
1.81	21.72	29.51	13246	19.075
1.82	21.84	29.83	13387	19.278
1.83	21.96	30.14	13528	19.481
1.84	22.08	30.46	13670	19.686
1.85	22.20	30.78	13813	19.891
1.86	22.32	31.10	13956	20.098
1.87	22.44	31.42	14100	20.305
1.88	22.56	31.74	14245	20.514
1.89	22.68	32.07	14391	20.724
1.90	22.80	32.39	14537	20.934
1.91	22.92	32.72	14684	21.146
1.92	23.04	33.05	14832	21.359
1.93	23.16	33.38	14980	21.572
1.94	23.28	33.71	15129	21.787
1.95	23.40	34.04	15279	22.003
1.96	23.52	34.38	15430	22.220
1.97	23.64	34.72	15581	22.437
1.98	23.76	35.06	15733	22.656
1.99	23.88	35.40	15885	22.876
2.00	24.00	35.74	16039	23.097



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Discharge Table For 72" Palmer-Bowlus Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.01	24.12	36.08	16193	23.319
2.02	24.24	36.42	16347	23.541
2.03	24.36	36.77	16503	23.765
2.04	24.48	37.12	16659	23.990
2.05	24.60	37.47	16816	24.216
2.06	24.72	37.82	16973	24.443
2.07	24.84	38.17	17132	24.671
2.08	24.96	38.53	17291	24.900
2.09	25.08	38.88	17450	25.130
2.10	25.20	39.24	17611	25.361
2.11	25.32	39.60	17772	25.592
2.12	25.44	39.96	17934	25.825
2.13	25.56	40.32	18096	26.059
2.14	25.68	40.68	18259	26.294
2.15	25.80	41.05	18423	26.530
2.16	25.92	41.42	18588	26.767
2.17	26.04	41.78	18753	27.005
2.18	26.16	42.15	18919	27.244
2.19	26.28	42.53	19086	27.484
2.20	26.40	42.90	19253	27.725
2.21	26.52	43.27	19421	27.967
2.22	26.64	43.65	19590	28.210
2.23	26.76	44.03	19759	28.454
2.24	26.88	44.41	19929	28.699
2.25	27.00	44.79	20100	28.946
2.26	27.12	45.17	20272	29.193
2.27	27.24	45.55	20444	29.441
2.28	27.36	45.94	20617	29.690
2.29	27.48	46.32	20791	29.940
2.30	27.60	46.71	20965	30.191
2.31	27.72	47.10	21140	30.443
2.32	27.84	47.49	21316	30.696
2.33	27.96	47.89	21492	30.950
2.34	28.08	48.28	21669	31.205
2.35	28.20	48.68	21847	31.461
2.36	28.32	49.08	22026	31.718
2.37	28.44	49.48	22205	31.976
2.38	28.56	49.88	22385	32.235
2.39	28.68	50.28	22565	32.495
2.40	28.80	50.68	22747	32.756
2.41	28.92	51.09	22929	33.018
2.42	29.04	51.50	23111	33.282
2.43	29.16	51.90	23295	33.546
2.44	29.28	52.31	23479	33.811
2.45	29.40	52.73	23663	34.077
2.46	29.52	53.14	23849	34.344
2.47	29.64	53.55	24035	34.612
2.48	29.76	53.97	24222	34.881
2.49	29.88	54.39	24409	35.151
2.50	30.00	54.81	24598	35.422

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.51	30.12	55.23	24786	35.694
2.52	30.24	55.65	24976	35.967
2.53	30.36	56.07	25166	36.241
2.54	30.48	56.50	25357	36.516
2.55	30.60	56.93	25549	36.792
2.56	30.72	57.36	25741	37.069
2.57	30.84	57.79	25934	37.347
2.58	30.96	58.22	26128	37.626
2.59	31.08	58.65	26323	37.906
2.60	31.20	59.09	26518	38.187
2.61	31.32	59.52	26713	38.469
2.62	31.44	59.96	26910	38.752
2.63	31.56	60.40	27107	39.036
2.64	31.68	60.84	27305	39.321
2.65	31.80	61.28	27504	39.607
2.66	31.92	6.18	2773	3.993
2.67	32.04	62.17	27903	40.182
2.68	32.16	62.62	28103	40.471
2.69	32.28	63.07	28305	40.760
2.70	32.40	63.52	28507	41.051
2.71	32.52	63.97	28709	41.343
2.72	32.64	64.42	28913	41.636
2.73	32.76	64.88	29117	41.930
2.74	32.88	65.33	29321	42.225
2.75	33.00	65.79	29527	42.521
2.76	33.12	66.25	29733	42.817
2.77	33.24	66.71	29940	43.115
2.78	33.36	67.17	30147	43.414
2.79	33.48	67.64	30355	43.714
2.80	33.60	68.10	30564	44.014
2.81	33.72	68.57	30774	44.316
2.82	33.84	69.04	30984	44.619
2.83	33.96	69.51	31195	44.923
2.84	34.08	69.98	31407	45.227
2.85	34.20	70.45	31619	45.533
2.86	34.32	70.93	31832	45.840
2.87	34.44	71.40	32045	46.147
2.88	34.56	71.88	32260	46.456
2.89	34.68	72.36	32475	46.766
2.90	34.80	72.84	32690	47.076
2.91	34.92	73.32	32907	47.388
2.92	35.04	73.81	33124	47.700
2.93	35.16	74.29	33342	48.014
2.94	35.28	74.78	33560	48.329
2.95	35.40	75.27	33779	48.644
2.96	35.52	75.76	33999	48.961
2.97	35.64	76.25	34219	49.279
2.98	35.76	76.74	34441	49.597
2.99	35.88	77.23	34662	49.916
3.00	36.00	77.73	34885	50.236



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LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
3.01	36.12	78.23	35108	50.558
3.02	36.24	78.73	35332	50.880
3.03	36.36	79.23	35556	51.204
3.04	36.48	79.73	35782	51.528
3.05	36.60	80.23	36008	51.853
3.06	36.72	80.74	36234	52.180
3.07	36.84	81.24	36461	52.507
3.08	36.96	81.75	36689	52.835
3.09	37.08	82.26	36918	53.164
3.10	37.20	82.77	37147	53.495
3.11	37.32	83.28	37377	53.826
3.12	37.44	83.80	37608	54.158
3.13	37.56	84.31	37839	54.491
3.14	37.68	84.83	38071	54.825
3.15	37.80	85.35	38304	55.160
3.16	37.92	85.87	38537	55.496
3.17	38.04	86.39	38772	55.833
3.18	38.16	86.91	39006	56.171
3.19	38.28	87.44	39242	56.510
3.20	38.40	87.96	39478	56.850
3.21	38.52	88.49	39715	57.191
3.22	38.64	89.02	39952	57.533
3.23	38.76	89.55	40190	57.876
3.24	38.88	90.08	40429	58.220
3.25	39.00	90.62	40668	58.565
3.26	39.12	91.15	40908	58.911
3.27	39.24	91.69	41149	59.258
3.28	39.36	92.23	41391	59.605
3.29	39.48	92.77	41633	59.954
3.30	39.60	93.31	41876	60.304
3.31	39.72	93.85	42119	60.655
3.32	39.84	94.39	42364	61.006
3.33	39.96	94.94	42608	61.359
3.34	40.08	95.49	42854	61.712
3.35	40.20	96.03	43100	62.067
3.36	40.32	96.58	43347	62.423
3.37	40.44	97.14	43595	62.779
3.38	40.56	97.69	43843	63.137
3.39	40.68	98.24	44092	63.495
3.40	40.80	98.80	44341	63.854
3.41	40.92	99.36	44592	64.215
3.42	41.04	99.92	44843	64.576
3.43	41.16	100.48	45094	64.939
3.44	41.28	101.04	45347	65.302
3.45	41.40	101.60	45600	65.666
3.46	41.52	102.17	45853	66.031
3.47	41.64	102.74	46108	66.398
3.48	41.76	103.30	46362	66.765
3.49	41.88	103.87	46618	67.133
3.50	42.00	104.44	46874	67.502

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
3.51	42.12	105.02	47131	67.872
3.52	42.24	105.59	47389	68.243
3.53	42.36	106.17	47647	68.615
3.54	42.48	106.74	47906	68.988
3.55	42.60	107.32	48166	69.362
3.56	42.72	107.90	48427	69.737
3.57	42.84	108.48	48688	70.113
3.58	42.96	109.07	48949	70.490
3.59	43.08	109.65	49212	70.868
3.60	43.20	110.24	49475	71.247
3.61	43.32	110.83	49738	71.626
3.62	43.44	111.41	50003	72.007
3.63	43.56	112.00	50268	72.389
3.64	43.68	112.60	50534	72.771
3.65	43.80	113.19	50800	73.155
3.66	43.92	113.79	51067	73.540
3.67	44.04	114.38	51335	73.925
3.68	44.16	114.98	51603	74.312
3.69	44.28	115.58	51872	74.699
3.70	44.40	116.18	52142	75.088
3.71	44.52	116.78	52412	75.477
3.72	44.64	117.39	52683	75.867
3.73	44.76	118.00	52995	76.316
3.74	44.88	118.60	53228	76.651
3.75	45.00	119.21	53501	77.044
3.76	45.12	119.82	53774	77.438
3.77	45.24	120.43	54049	77.834
3.78	45.36	121.04	54324	78.230
3.79	45.48	121.66	54600	78.627
3.80	45.60	122.27	54876	79.025
3.81	45.72	122.89	55153	79.424
3.82	45.84	123.51	55431	79.824
3.83	45.96	124.13	55709	80.225
3.84	46.08	124.75	55988	80.627
3.85	46.20	125.37	56268	81.030
3.86	46.32	126.00	56549	81.434
3.87	46.44	126.63	56830	81.838
3.88	46.56	127.25	57111	82.244
3.89	46.68	127.88	57394	82.651
3.90	46.80	128.51	57677	83.058
3.91	46.92	129.15	57961	83.467
3.92	47.04	129.78	58245	83.877
3.93	47.16	130.41	58530	84.287
3.94	47.28	131.05	58816	84.699
3.95	47.40	131.69	59102	85.111
3.96	47.52	132.33	59389	85.525
3.97	47.64	132.97	59677	85.939
3.98	47.76	133.61	59966	86.354
3.99	47.88	134.26	60255	86.771
4.00	48.00	134.90	60544	87.188



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Discharge Table For 72" Palmer-Bowlus Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
4.01	48.12	135.55	60835	87.606
4.02	48.24	136.20	61126	88.025
4.03	48.36	136.85	61418	88.445
4.04	48.48	137.50	61710	88.866
4.05	48.60	138.15	62003	89.288
4.06	48.72	138.81	62297	89.711
4.07	48.84	139.46	62591	90.135
4.08	48.96	140.12	62886	90.560
4.09	49.08	140.78	63182	90.986
4.10	49.20	141.44	63478	91.413
4.11	49.32	142.10	63775	91.841
4.12	49.44	142.77	64073	92.269
4.13	49.56	143.43	64372	92.699
4.14	49.68	144.10	64671	93.130
4.15	49.80	144.76	64970	93.561
4.16	49.92	145.43	65271	93.994
4.17	50.04	146.10	65572	94.427
4.18	50.16	146.78	65873	94.862
4.19	50.28	147.45	66176	95.297
4.20	50.40	148.13	66479	95.733
4.21	50.52	148.80	66782	96.171
4.22	50.64	149.48	67087	96.609
4.23	50.76	150.16	67392	97.048
4.24	50.88	150.84	67697	97.488
4.25	51.00	151.52	68004	97.929
4.26	51.12	152.21	68311	98.372
4.27	51.24	152.89	68618	98.815
4.28	51.36	153.58	68927	99.259
4.29	51.48	154.31	69253	99.729
4.30	51.60	154.96	69545	100.149
4.31	51.72	155.65	69855	100.596
4.32	51.84	156.34	70166	101.044
4.33	51.96	157.04	70478	101.493
4.34	52.08	157.73	70790	101.942
4.35	52.20	158.43	71103	102.393
4.36	52.32	159.13	71417	102.845
4.37	52.44	159.83	71731	103.297
4.38	52.56	160.53	72046	103.751