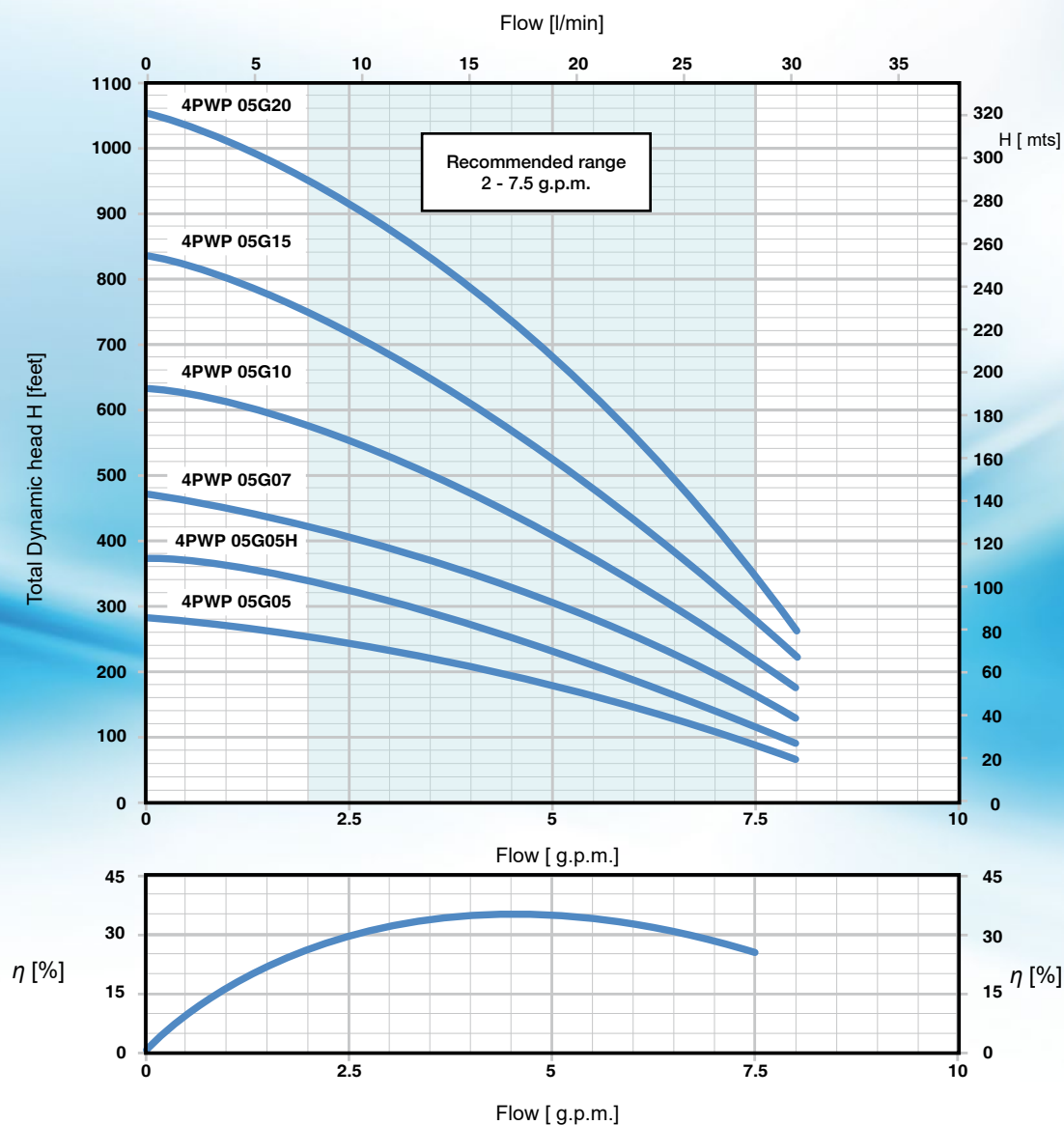


Pearl®

4PWP 05

Performance Curves at 3450 r.p.m.

1 1/4" DISCHARGE



Selection Chart

MODEL	STAGES	MOTOR		Q = FLOW														PUMP END			
				l/min 0		10		15		20		25		30							
		gpm 0		2.6		4.0		5.3		6.6		7.9									
		KW	HP	H = TOTAL HEAD IN METERS / FEET														LENGTH		WEIGHT	
				m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	mm	in	kgs	lbs		
4PWP 05G05	9	0.37	0.5	87	285	75	246	65	213	52	171	38	125	21	69	306	12.0	3.1	6.9		
4PWP 05G05H	12	0.37	0.5	114	374	98	321	85	279	68	223	49	161	28	92	359	14.1	3.6	8.0		
4PWP 05G7	15	0.55	0.75	144	472	124	407	110	361	89	292	65	213	39	128	411	16.2	4.1	9.1		
4PWP 05G10	20	0.75	1	193	633	169	554	148	485	120	394	88	289	53	174	499	19.6	4.9	10.8		
4PWP 05G15	26	1.1	1.5	255	836	219	718	179	587	152	499	112	367	68	223	642	25.3	5.8	12.8		
4PWP 05G20	33	1.5	2	320	1050	280	918	245	804	200	656	145	476	82	269	757	29.8	7.3	16.1		

5 gpm

HP Range: 1/2 - 2 HP

Recommended Flow Range: 2 - 7.5 g.p.m.

MODEL	HP	PSI	DEPTH TO WATER IN FEET / FLOW IN GPM																		
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460
4PWP 05G05	0.5	0			8	7.5	7	6.5	6	5.5	4.8	4.2	3.5	2.5	1.5	0.5					
		20	8	7.5	7	6.5	6	5.8	4.7	4	3.3	2.3	1.6								
		30	7.4	6.8	6.2	5.7	5.3	4.5	4	3	2	1									
		40	6.8	6.2	5.7	5.3	4.5	3.7	3	2.3	1										
		50	6.2	5.7	5.3	4.6	3.7	3	2.3	0.8											
Shut-off PSI		123.5	115	106	98	89	80	72	63	54	46	37	28	20	11	2					
4PWP 05G05H	0.5	0			8.5	8.3	7.8	7.3	7	6.5	6	5.7	5.2	4.7	4.3	3.7	3.2	2			
		20		8.2	7.8	7.3	6.7	6.3	5.8	5.6	5.2	4.6	4.2	3.6	3	2.4	1.8				
		30	8	7.6	7.3	6.7	6.3	5.8	5.4	5	4.5	4	3.5	2.8	2.3	1.5	0.5				
		40	7.5	7.3	6.7	6.3	5.8	5.4	5	4.4	3.9	3.5	2.8	2.3	1.5	0.5					
		50	7.2	6.6	6.2	5.7	5.3	4.9	4.3	3.8	3.4	2.7	2.2	1.5	0.5						
		60	6.6	6.2	5.7	5.3	4.9	4.3	3.7	3.3	2.5	2.3	1	0.5							
Shut-off PSI		162	153	145	136	127	119	110	101	93	84	75	67	58	49	41	32	15			
4PWP 05G07	3/4	0		9	8.8	8.5	8.3	8	7.8	7.5	7.3	6.8	6.5	6.3	5.8	5.4	5.2	4.3	3.2	2	0.5
		20	9	8.8	8.3	8	7.8	7.3	7.2	6.8	6.4	6	5.6	5.3	4.8	4.2	4	3	2	0.5	
		30	8.5	8.3	8	7.8	7.3	7.2	6.8	6.4	6	5.6	5.2	4.8	4.2	4	3.5	2	0.75		
		40	8.3	8	7.8	7.5	7.2	6.8	6.4	6	5.5	5.2	4.5	4.2	4	3.4	3	1.8			
		50	8	7.6	7.3	7.1	6.7	6.3	5.9	5.7	5.2	4.7	4.2	3.8	3.5	2.8	1.8	0.8			
		60	7.5	7.3	7	6.5	6.3	5.8	5.4	5.25	4.75	4.6	4.1	3.6	3.2	2.6	1.3				
Shut-off PSI		204.5	196	187	179	170	161	153	144	135	127	118	109	101	92	83	75	57	40	23	5
MODEL	HP	PSI	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
4PWP 05G10	1	0		8.3	7.7	7.1	6.5	5.8	5.2	4.3	3.5	2.5	1.3								
		20		7.7	7	6.4	5.8	5.1	4.4	3.6	2.5	1.3									
		30	8	7.5	6.7	6.2	5.5	4.7	4	3.2	2	0.5									
		40	7.8	7.2	6.6	5.8	5.2	4.3	3.6	2.5	1.8										
		50	7.6	6.8	6.3	5.6	4.6	4	3.3	2	0.3										
		60	7.2	6.6	6	5.3	4.5	3.6	2.6	1.8											
Shut-off PSI		274	231	209	187	166	144	122	101	79	58	36	14								
4PWP 05G15	1.5	0		8.3	7.7	7.3	6.7	6.3	5.7	5.3	4.7	4.1	3.5	2.7	2	1					
		20		8.3	7.8	7.3	6.8	6.4	5.8	5.4	4.8	4.2	3.6	2.8	2.2	1					
		30		8	7.5	7.2	6.6	6.2	5.6	5.2	4.4	3.8	3.5	2.5	1.5						
		40	8.3	7.6	7.4	6.7	6.3	5.7	5.3	4.7	4.2	3.5	2.8	2							
		50	8	7.5	7.2	6.6	6.2	5.5	5.2	4.4	3.9	3.2	2.5	1.5							
		60	7.7	7.4	6.8	6.4	5.8	5.3	4.8	4.2	3.5	3	2	1.3							
Shut-off PSI		362	319	297	275	254	232	210	189	167	146	124	102	81	59	37	15.6				
4PWP 05G20	2	0			8	7.7	7.5	7.2	6.6	6.4	6.2	5.7	5.3	4.6	4.3	3.7	3.3	2.6	2	1.3	
		20			7.7	7.4	7.2	6.8	6.4	6	5.6	5.2	5.3	4.8	3.8	3.8	2.6	2	1		
		30	8	7.8	7.4	7.2	6.8	6.4	6	5.6	5.2	4.8	4.3	3.8	3.2	2.5	1.8	1			
		40	7.8	7.4	7.2	6.6	6.4	5.9	5.6	5.2	4.8	4.2	3.8	3.2	2.5	1.8	1				
		50	7.4	7.2	6.7	6.3	5.8	5.6	5.2	4.8	4.2	3.8	3.2	2.5	1.7	1					
		60	7	6.6	6.3	5.8	5.5	5.2	4.6	4.2	3.6	3	2.4	1.7	0.8						
Shut-off PSI		454.5	411	390	368	346	325	303	281	260	238	216	195	173	151	130	108	86	65	43	21.5

* Friction losses in pipe have not been calculated.



Weight and Dimensions with Pearl 4" Motors



PEARL POWER 4

MODEL	HP	KW	PUMP END H1				1 PH MOTOR - 3W						1 PH MOTOR						3 PH MOTOR					
			HEIGHT		WEIGHT		MOTOR H2		PUMP + MOTOR HEIGHT		PUMP + MOTOR WEIGHT		MOTOR H2		PUMP + MOTOR HEIGHT		PUMP + MOTOR WEIGHT		MOTOR H2		PUMP + MOTOR HEIGHT		PUMP + MOTOR WEIGHT	
			inch	cm	lbs	kg	inch	cm	inch	cm	lbs	kg	inch	cm	inch	cm	lbs	kg	inch	cm	inch	cm	lbs	kg
4PWP 05G05	0.5	0.37	12.0	30.6	6.9	3.1	8.5	21.6	20.6	52.2	21.7	9.8	15.9	40.5	28.0	71.1	23.0	10.4	8.5	21.6	13.2	33.6	20.1	9.1
4PWP 05G05H	0.5	0.37	14.1	35.9	8.0	3.6	8.5	21.6	20.6	52.2	22.8	10.3	15.9	40.5	28.0	71.1	24.1	10.9	8.5	21.6	22.6	57.5	21.2	9.6
4PWP 05G7	0.75	0.55	16.2	41.1	9.1	4.1	10.5	26.6	26.7	67.7	26.7	12.1	17.1	43.5	25.5	64.7	27.8	12.6	10.5	26.6	26.7	67.7	23.9	10.8
4PWP 05G10	1	0.75	19.6	49.9	10.8	4.9	11.3	28.6	30.9	78.5	30.7	13.9	17.9	45.5	37.6	95.4	31.4	14.2	10.5	26.6	30.1	76.5	28.5	12.9
4PWP 05G15	1.5	1.1	25.3	64.2	12.8	5.8	13.0	33.1	38.3	97.3	37.1	16.8	19.7	50.0	45.0	114.2	37.8	17.1	11.3	28.6	36.5	92.8	32.7	14.8
4PWP 05G20	2	1.5	29.8	75.7	16.1	7.3	15.5	39.3	45.3	115.0	44.9	20.3							13.7	34.8	43.5	110.5	40.4	18.3
4PWP 07G05	0.5	0.37	10.8	27.5	6.0	2.7	8.5	21.6	19.3	49.1	20.8	9.4	15.9	40.5	26.8	68.0	22.1	10	8.5	21.6	19.3	49.1	19.2	8.7
4PWP 07G05H	0.5	0.37	13.0	33.0	7.3	3.3	8.5	21.6	21.5	54.6	22.1	10	15.9	40.5	28.9	73.5	23.4	10.6	8.5	21.6	21.5	54.6	20.6	9.3
4PWP 07G7	0.7	0.55	15.2	38.5	8.4	3.8	10.5	26.6	25.6	65.1	26.0	11.8	17.1	43.5	32.3	82.0	27.2	12.3	10.5	26.6	25.6	65.1	23.2	10.5
4PWP 07G10	1	0.75	17.9	45.5	9.9	4.5	11.3	28.6	29.2	74.1	29.8	13.5	17.9	45.5	35.8	91.0	30.5	13.8	10.5	26.6	28.4	72.1	27.6	12.5
4PWP 07G15	1.5	1.1	21.5	54.5	11.9	5.4	13.0	33.1	34.5	87.6	36.2	16.4	19.7	50	41.1	104.5	36.9	16.7	11.3	28.6	32.7	83.1	31.8	14.4
4PWP 07G20	2	1.5	26.6	67.5	14.6	6.6	15.5	39.3	42.0	106.8	43.3	19.6							13.7	34.8	40.3	102.3	38.9	17.6
4PWP 07G30	3	2.2	31.3	79.5	18.3	8.3	16.3	41.3	47.6	120.8	48.8	22.1							15.5	39.3	46.8	118.8	47.1	21.3
4PWP 10G05	0.5	0.37	9.3	23.6	5.5	2.5	8.5	21.6	19.2	48.7	20.3	9.2	15.9	40.5	26.6	67.6	21.7	9.8	8.5	21.6	17.8	45.2	18.8	8.5
4PWP 10G05H	0.5	0.37	10.7	27.1	6.2	2.8	8.5	21.6	19.2	48.7	21.0	9.5	15.9	40.5	26.6	67.6	22.3	10.1	8.5	21.6	19.2	48.7	19.4	8.8
4PWP 10G7	0.75	0.55	12.8	32.4	7.3	3.3	10.5	26.6	23.2	59.0	25.0	11.3	17.1	43.5	22.0	56.0	26.1	11.8	10.5	26.6	23.2	59.0	22.1	10.0
4PWP 10G10	1	0.75	14.1	35.9	8.0	3.6	11.3	28.6	25.4	64.5	27.8	12.6	17.9	45.5	32.0	81.4	28.5	12.9	10.5	26.6	24.6	62.5	25.6	11.6
4PWP 10G15	1.5	1.1	17.6	44.7	9.7	4.4	13.0	33.1	30.6	77.8	34.0	15.4	19.7	50.0	37.3	94.7	34.7	15.7	11.3	28.6	28.9	73.3	29.6	13.4
4PWP 10G20	2	1.5	19.6	49.9	10.8	4.9	15.5	39.3	35.1	89.2	39.6	17.9							13.7	34.8	33.3	84.7	35.1	15.9
4PWP 10G30	3	2.2	26.0	66.0	13.3	6.0	16.3	41.3	42.2	107.3	43.8	19.8							15.5	39.3	41.5	105.3	42.0	19.0
4PWP 10G50	5	3.7	29.8	75.8	19.4	8.8	26.9	68.3	56.7	144	78.0	35.3							24.2	61.4	54.0	137.2	70.3	31.8
4PWP 13G05	0.5	0.37	9.3	23.6	5.5	2.5	8.5	21.6	17.8	45.2	20.3	9.2	15.9	40.5	25.2	64.1	21.7	9.8	8.5	21.6	17.8	45.2	18.8	8.5
4PWP 13G7	0.75	0.55	10.7	27.1	6.2	2.8	10.5	26.6	21.1	53.7	23.9	10.8	17.1	43.5	20.0	50.7	25.0	11.3	10.5	26.6	21.1	53.7	21.0	9.5
4PWP 13G10	1	0.75	12.8	32.4	7.1	3.2	11.3	28.6	24.0	61.0	27.0	12.2	17.9	45.5	30.7	77.9	27.6	12.5	10.5	26.6	23.2	59.0	24.8	11.2
4PWP 13G15	1.5	1.1	14.1	35.9	7.7	3.5	13.0	33.1	27.2	69.0	32.0	14.5	19.7	50.0	33.8	85.9	32.7	14.8	11.3	28.6	25.4	64.5	27.6	12.5
4PWP 13G20	2	1.5	17.6	44.7	9.5	4.3	15.5	39.3	33.1	84.0	38.2	17.3							13.7	34.8	31.3	79.5	33.8	15.3
4PWP 13G30	3	2.2	20.4	51.9	11.1	5.0	16.3	41.3	36.7	93.2	41.5	18.8							15.5	39.3	35.9	91.2	39.8	18.0
4PWP 13G50	5	3.7	31.6	80.3	16.8	7.6	26.9	68.4	58.5	148.7	75.4	34.1							24.2	61.4	55.8	141.7	67.6	30.6
4PWP 18G05	0.5	0.37	10.1	25.7	6.0	2.7	8.5	21.6	18.6	47.3	20.8	9.4	15.9	40.5	26.1	66.2	22.1	10.0	8.5	21.6	18.6	47.3	19.2	8.7
4PWP 18G7	0.75	0.55	11.0	27.9	6.2	2.8	10.5	26.6	21.5	54.5	23.9	10.8	17.1	43.5	20.3	51.5	25.0	11.3	10.5	26.6	21.5	54.5	21.0	9.5
4PWP 18G10	1	0.75	12.7	32.2	6.9	3.1	11.3	28.6	23.9	60.8	26.7	12.1	17.9	45.5	30.6	77.7	27.4	12.4	10.5	26.6	23.1	58.8	24.5	11.1
4PWP 18G15	1.5	1.1	15.2	38.7	8.0	3.6	13.0	33.1	28.3	71.8	32.3	14.6	19.7	50.0	34.9	88.7	32.9	14.9	11.3	28.6	26.5	67.3	27.8	12.6
4PWP 18G20	2	1.5	17.8	45.2	9.1	4.1	15.5	39.3	33.3	84.5	37.8	17.1							13.7	34.8	31.5	80.0	33.4	15.1
4PWP 18G30	2.2	3	22.0	56.0	10.8	4.9	16.3	41.3	38.3	97.3	41.3	18.7							15.5	39.3	37.5	95.3	39.6	17.9
4PWP 18G50	5	3.7	32.6	82.7	15.7	7.1	26.9	68.4	59.5	151.1	74.3	33.6							24.2	61.4	56.7	144.1	66.5	30.1