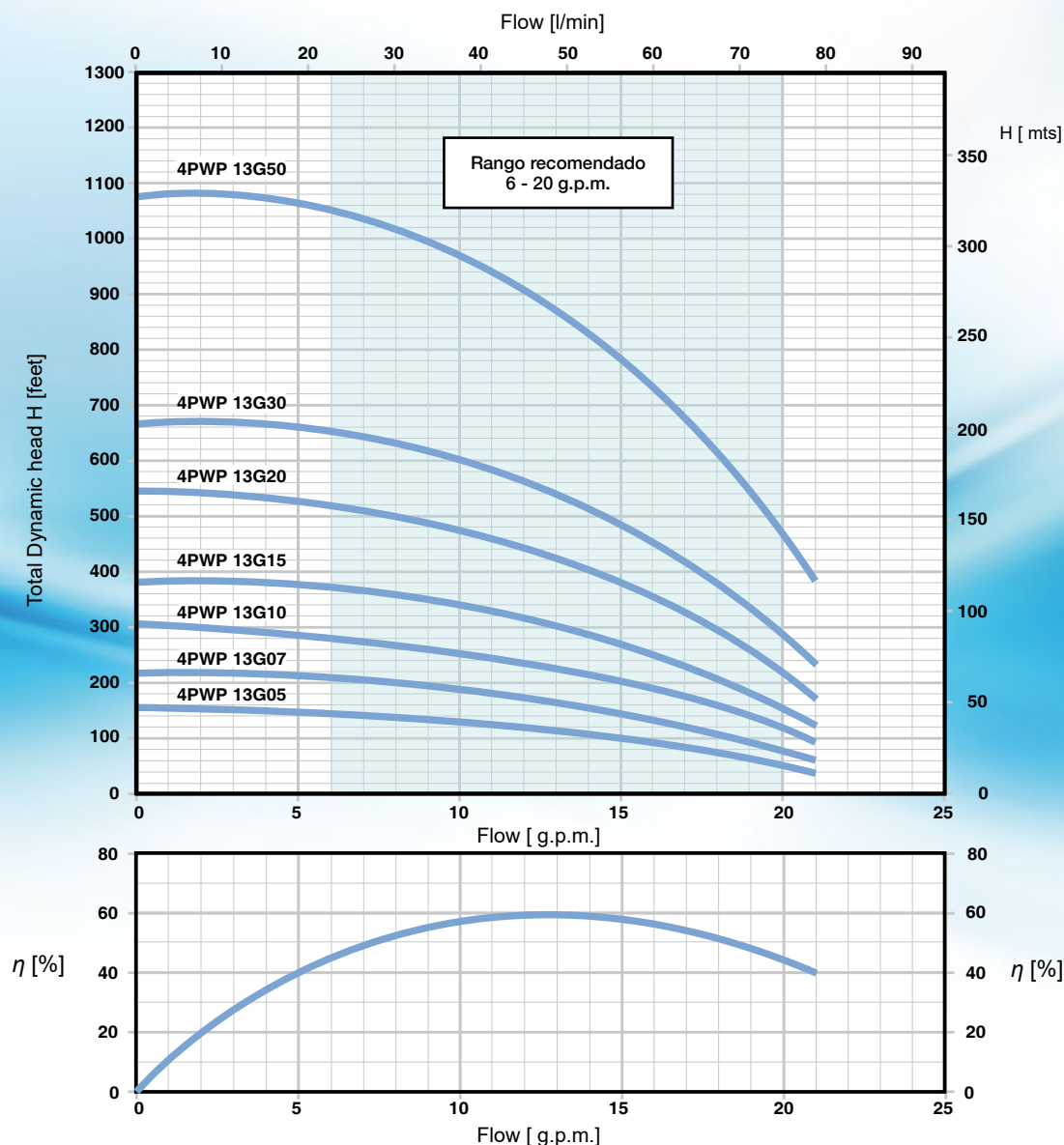


Pearl®

4PWP 13

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	35	40	50	60	70	80																												
		gpm		0	2.6	4.0	5.3	6.6	7.9	9.3	10.6	13.2	15.9	18.5	21.2																												
		KW	HP	H = TOTAL HEAD IN METERS / FEET																												LENGTH		WEIGHT									
m	ft			m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	mm	in	kgs	lbs												
4PWP 13G05	5	0.37	0.5	47	154	46	151	45	148	44	144	43	141	42	138	40	131	39	128	34	112	28	92	21	69	12	39	236	9.3	2.5	5.5												
4PWP 13G7	7	0.55	0.75	67	220	66	216	65	213	64	210	62	203	61	200	59	194	57	187	50	164	41	134	31	102	19	62	271	10.7	2.8	6.2												
4PWP 13G10	10	0.75	1	94	308	93	305	91	298	89	292	87	285	85	279	81	266	78	256	69	226	58	190	45	148	28	92	324	12.8	3.2	7.1												
4PWP 13G15	12	1.1	1.5	116	380	115	377	114	374	113	371	111	364	109	358	106	348	102	335	91	298	78	256	60	197	38	125	359	14.1	3.5	7.7												
4PWP 13G20	17	1.5	2	165	541	164	538	163	535	160	525	156	512	154	505	148	485	143	469	128	420	109	358	83	272	53	174	447	17.6	4.3	9.5												
4PWP 13G30	21	2.2	3	204	669	203	666	202	663	199	653	195	640	193	633	187	613	180	590	162	531	139	456	110	361	72	236	519	20.4	5.0	11.1												
4PWP 13G50	35	3.7	5	327	1073	325	1066	323	1059	320	1050	316	1036	312	1023	304	997	292	958	264	866	223	731	175	574	117	384	803	31.6	7.6	17												

HP Range: 1/2 - 5 HP

Recommended Flow Range: 6 - 20 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	500	540	580	620	660	700			
4PWP 13G05	0.5	0		21	19.3	17	15	11	5																					
		20	18.6	16.5	13	9.5	6																							
		30	16	12	10	2.6																								
		40	13.5	10	3																									
Shut-off PSI		66	57	48	39	30	21	12																						
4PWP 13G07	0.7	0			21	20	18.5	17	15	13.5	11	7.5																		
		20	21	19	18	17.5	15	13.5	10	7	2.5																			
		30	19.2	18	16	13.5	12.5	9.5	6																					
		40	18	16	13.5	12.5	9.5	6																						
		50	16	13.5	12.5	9	6																							
		60	13.5	12.5	9	6																								
Shut-off PSI		95	86	77	68	59	50	41	32	23	14																			
4PWP 13G10	1	0					20.6	20	19	18	16.5	15	13.2	11.5	8	5														
		20			21	19.7	19	17.7	16.3	15	13	11.5	8.8	5.8																
		30		21	20.5	18.5	17.3	15.8	14	12.5	10	7.5	4																	
		40	20.5	19.5	18.5	17.3	15.8	14	12	10	7	4																		
		50	19.5	18.5	17.3	15.8	14	12	10	6	4																			
		60	18	16.5	15	13.2	11.5	9	6	3.5																				
Shut-off PSI		132	123	114	105	96	87	78	69	60	51	42	33	24																
4PWP 13G15	1.5	0						21	20.5	19.7	19	18.3	17.2	16.5	15.5	14.2	13	9.8												
		20				21.7	21.2	19.7	19	18.3	17.2	16.5	15.5	14.2	12.8	11.4	9.8	4												
		30			21.7	21.2	19.7	19	18	17	16	15	13.5	12	10.2	8.5	6													
		40		21.7	21.2	19.7	19	18	17	16	15	14	12	10	9	6														
		50	21.7	21.2	19.5	19	18	17	16	15	14	12	10.7	9	4															
		60	19.7	19	18.3	17.2	16.5	15.5	14.2	13	11.4	9.8	7	6																
Shut-off PSI		163	154	145	136	127	118	109	100	91	82	73	64	55	46	37	28													
4PWP 13G20	2	0								21	20.7	20.5	20	19.6	19	18.4	17.8	16.7	15	13	11	8								
		20						21	20.7	20.4	20	19.5	19	18.3	17.8	17.2	16.5	15	13	11	8	4								
		30					21	20.6	20.3	19.7	19.2	18.7	18	17.2	16.8	16	15.2	13.5	11.5	9	4									
		40				21	20.5	20.2	19.5	19	18.5	18	17.5	17	16	15	13.5	11.5	10	6										
		50			21	20.5	20.2	19.6	19.2	18.7	18	17.3	17	16	15.5	13.5	11.5	11	8	3										
		60		21	20.5	20	20	19.5	19	18.5	17.2	16.5	16	15	14.5	13	12	9.5	5											
Shut-off PSI		233	224	215	206	197	188	179	170	161	152	143	134	125	116	107	98	81	64	47	30									
4PWP 13G30	3	0												21	20.5	20.2	19.7	19	15	16.5	15.8	14.4	13	11	8.5	5				
		20											20.7	20.5	20.2	19.7	19.5	19	18	17	15.5	14.4	13	11	8	5				
		30										20.6	20.4	20	19.5	19.5	18.7	18.2	17.2	16	14.5	13.2	11.3	8.5	6					
		40									20.6	20.5	20	19.2	18.9	18.7	18.2	17.2	16	15	14	12.5	10.5	7.5						
		50								20.4	20.2	19.7	19.5	19.2	18.5	18	17	16	15	14	12.5	10	9							
		60						20.6	20	19.7	19.5	19	18.5	18	17	16	15	14	12.5	9	7.5	7								
Shut-off PSI		288	279	270	261	252	243	234	225	216	207	198	189	180	171	162	153	136	119	102	85	68	51	34						
MODEL	HP	PSI	20	40	60	80	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100			
4PWP 13G50	5	0												20.9	20.3	19.6	19	18.2	17.2	16.5	15.5	14.4	13.5	12.1	10.5	8.5	6			
		20											20.4	20.2	19.5	19	18.3	17.5	16.5	15.5	14.4	13.5	12.1	10.5	8.5	6				
		30											20.3	20	19.3	18.7	18	17	16.2	15	14	13	11.8	10	8	4.8				
		40										20.9	20.1	19.8	19.2	18.3	17.3	16.7	15.7	14.8	13.6	12.2	11	8.6	6					
		50										20.5	19.9	19.5	18.6	18	16.8	16	15.2	14.2	13.2	12	10	8	4.8					
		60									21	20.1	19.8	19.2	18.3	17.3	16.7	15.7	14.8	13.6	12.2	11	9	6.5						
Shut-off PSI		461	452	443	434	425	416	394	372	350	328	306	284	262	240	218	196	174	152	130	108	86	64	42	20	-2				

* 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