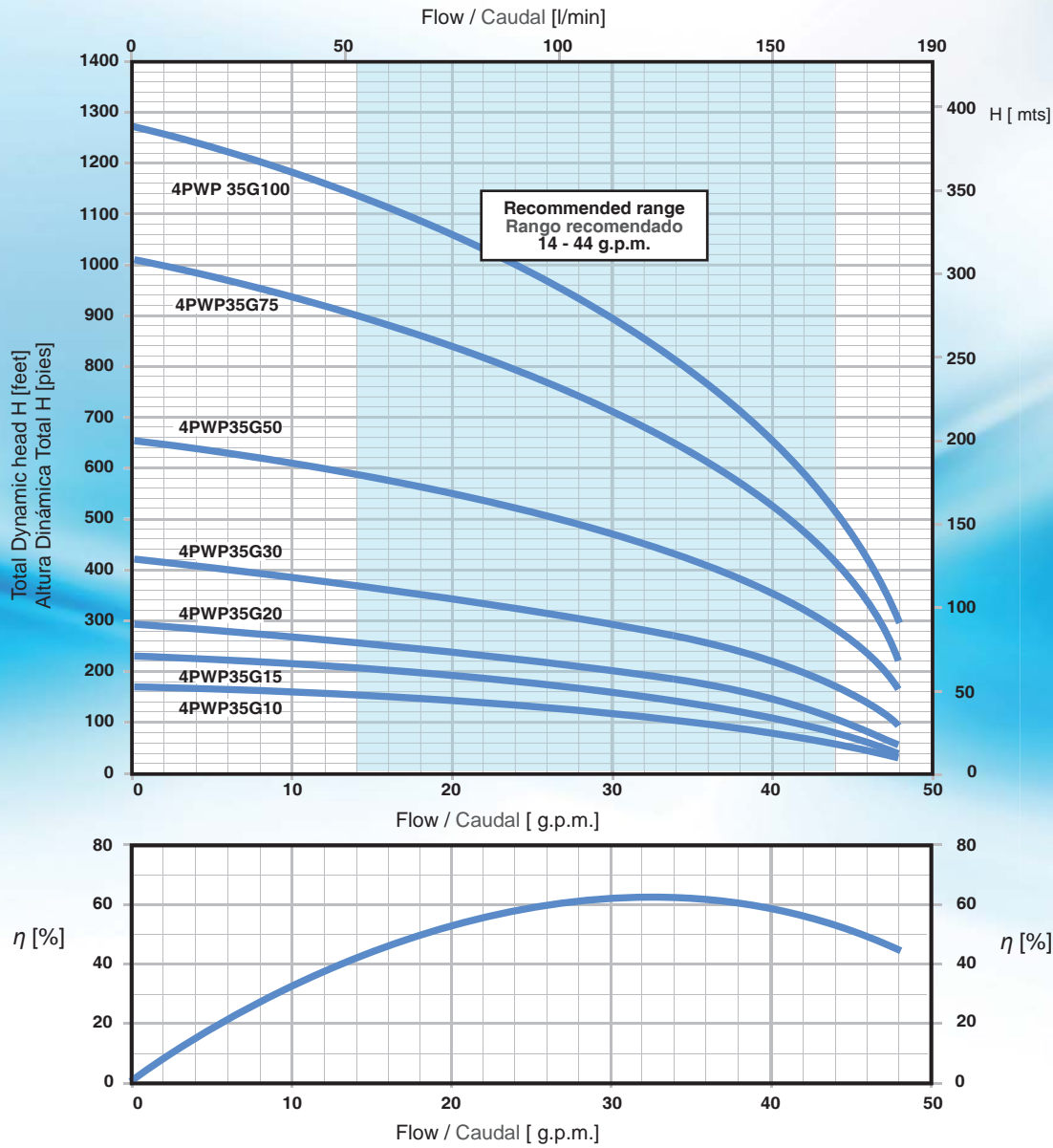


Pearl 4PWP35

Performance Curves at 3450 r.p.m. / Curvas de Rendimiento a 3450 r.p.m.



Selection Chart / Tabla de Selección

MODEL MODELO	STAGES / ETAPAS	MOTOR		Q = FLOW / CAUDAL																								PUMP END HIDRAULICA					
				l/min		35		40		50		60		70		80		90		100		120		140		160				180			
		KW	HP	H = TOTAL HEAD IN METERS / FEET ALTURA DINAMICA TOTAL EN METROS / PIES																												LENGTH ALTURA	WEIGHT PESO
				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		
4PWP35G10	6	0.75	1	52	171	48	157	47	154	46	151	44	144	43	141	42	138	40	131	38	125	33	108	27	89	18	59	9	30	359	14.1	3.4	7.5
4PWP35G15	8	1.1	1.5	70	230	65	213	63	207	62	203	60	197	58	190	55	180	52	171	50	164	43	141	35	115	24	79	12	39	421	16.6	4.0	8.8
4PWP35G20	10	1.5	2	91	298	81	266	80	262	79	259	77	253	75	246	72	236	69	226	65	213	58	190	48	157	32	105	17	56	483	19.0	4.6	10.2
4PWP35G30	14	2.2	3	128	420	117	384	113	371	111	364	109	358	106	348	102	335	99	325	94	308	83	272	70	230	51	167	29	95	607	23.9	5.7	12.6
4PWP35G50	22	3.7	5	200	656	183	600	160	525	175	574	170	558	165	541	159	522	152	499	147	482	132	433	111	364	84	276	50	164	893	35.2	8.1	17.9
4PWP35G75	34	5.5	7.5	308	1010	282	925	276	905	271	889	263	863	255	836	246	807	236	774	225	738	200	656	167	548	122	400	69	226	1257	49.5	11.6	25.6
4PWP35G100	43	7.5	10	394	1292	362	1187	355	1164	349	1145	339	1112	328	1076	317	1040	305	1000	292	958	261	856	220	722	167	548	90	295	1318	51.9	14.2	31.4

HP Range / Rango HP: 1 - 7.5 HP

Recommended Flow Range / Rango de Operación Recomendado: 14 - 44 g.p.m.

MODEL MODELO	HP	PSI	DEPTH TO WATER IN FEET / FLOW IN GPM PROFUNDIDAD DEL AGUA EN PIES / CAUDAL EN 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	740	780	
4PWP35G10	1	0		46	43	39	34	27.5	17.5	10																				
		20	42	38	33	26	17	8																						
		30	38	32	24	15	19																							
		40	32	24	14																									
		50	24	14																										
Shut-off PSI Presión máx.PSI		74	65	57	48	39	31	22	13	5																				
4PWP35G15	1.5	0		48	45	44	42	38	34	30	24	16																		
		20	46	43	40	37	28	25	22	16	6																			
		30	43	40	37	28	25	22	10	2																				
		40	40	37	28	25	20	12																						
		50	37	28	25	20	8																							
Shut-off PSI Presión máx.PSI		99	91	82	73	65	56	47	39	30	21	13																		
4PWP35G20	2	0				44.3	42.3	41	39	35	30	24	18	12																
		20			44	42	41	39	35	30	24	18	10	4																
		30	48	44	42	41	39	35	30	21	16	9	4																	
		40	43.5	42	41	39	35	30	21	16	8	2																		
		50	42	41	39	35	30	21	16	8	2																			
Shut-off PSI Presión máx.PSI		129	121	112	103	95	86	77	69	60	51	43	34	25	17															
4PWP35G30	3	0						44.5	43.5	42	40	38	35.8	32.2	28	20	10													
		20					44	42.5	41	40	38	35.8	32.3	26	24	20	10													
		30				44	42.5	41	40	38	35	32	26	24	20	14														
		40			44	42	41	40	37	34	31	27	22	18	12															
		50		42.5	41	40.5	39	36	34	31	27	22	18	13																
Shut-off PSI Presión máx.PSI		181	172	163	154	145	136	127	118	109	100	91	82	73	64	55	46	24												
4PWP35G50	5	0						47	45	43	40	36.5	32	26.8	20	11.8	2													
		20					47.3	46	43.5	40.5	37.8	32	27.8	19.7	12	3														
		30				47.8	46.5	44.5	42	39	35	33	24	16.8	7															
		40			47.5	47	45	43.8	40	37.8	33	28	20	13.5																
		50		47.5	47.2	46.5	44.5	42.5	39.8	35.8	29	25	16																	
Shut-off PSI Presión máx.PSI		284	275	267	258	249	241	219	197	176	154	132	111	89	67	46	24	2												
4PWP35G75	7.5	0						47.5	47	45.5	42.5	43	41	39	36.3	34	31	27	23.5	19	14	8	1							
		20					47.5	47	46	44.5	43	41	39	37	34	31	27	24	19	14.2	6	1.5								
		30				48.0	47.5	46.5	45	43.5	42	40	38	35	33	29	25	21	17	12	5									
		40				47.5	47	46	44.5	43	41	39	37	34	31.5	26.5	24	19	14.5	6	3									
		50				47.5	47.2	46.5	45.5	44	42.4	40.7	38.2	36	32.5	30	26	22	17	12	5.5									
Shut-off PSI Presión máx.PSI		437.36	429	420	411	403	394	372	351	329	307	286	264	243	221	199	178	156	134	113	91	69	48	26	4					
4PWP35G100	10	0													44	43	41	40	38	36	34	31.5	28.5	26	22.3	18.2	14.2	10		
		20													44	43	41	40	38	36	34	31	29	26.2	22.5	18.5	14	10.5		
		30														44.2	43.2	41.2	40.3	38.3	37	35	33	30	27.3	24	21	17	13	
		40														44	43	41	40	38	36	34	31	29	26	22	18	13		
		50														44.5	43.5	42.2	40.5	39.5	37	35.8	33	31	28	25	21	18		
Shut-off PSI Presión máx.PSI		556.85	548	539	530	521	512	490	468	446	424	402	380	358	336	314	292	270	248	226	204	182	160	138	116	94	72	50	28	

* Friction losses in pipe have not been calculated / Las pérdidas por fricción en la tubería no han sido consideradas.



Pearl

4" Submersible Pumps

Bombas Sumergibles de 4"



Application

Multi purpose applications in the residential, agriculture and industrial markets. Perfect for pressure boosting application, irrigation and water transfer.

Performance Range

- Flow from 5 GPM to 80 GPM.
- Head up to 1350 feet.

Features

- Continuous duty: PEARL submersible pumps can operate continuously without damage to any component.
- Impeller floating system: designed to guarantee the best performance and durability for sand handling.
- NEMA Standard motor adapter.
- Shaft for pumps with 19 and fewer stages are supplied with one shaft bearing. Shaft for pumps with more than 19 stages are supplied with 2 shaft bearings.
- Built-in stainless steel check valve.

Aplicaciones

Se usan en el mercado residencial, industrial y agricultura. Perfectas para aplicaciones en las cuales se necesita incrementar la presión, sistemas de riego y transferencia de agua.

Rango de Operación

- Caudal desde 5 Gpm (19 LPM) hasta 80 GPM (300 LPM).
- Presión hasta 1350 Pies (412 m).

Características

- Uso continuo: Las bombas sumergibles PEARL, pueden trabajar continuamente sin dañar ninguno de sus componentes.
- Sistemas de Impulsores Flotantes: Su diseño garantiza el mejor rendimiento y durabilidad aún en presencia de arena.
- Acople Motor-Bomba NEMA.
- El eje de las bombas de 19 etapas o menos viene con un soporte superior. Ejes de las bombas con más de 19 etapas viene con un soporte superior y un soporte intermedio.
- Válvula de retención incorporada.

Construction Materials

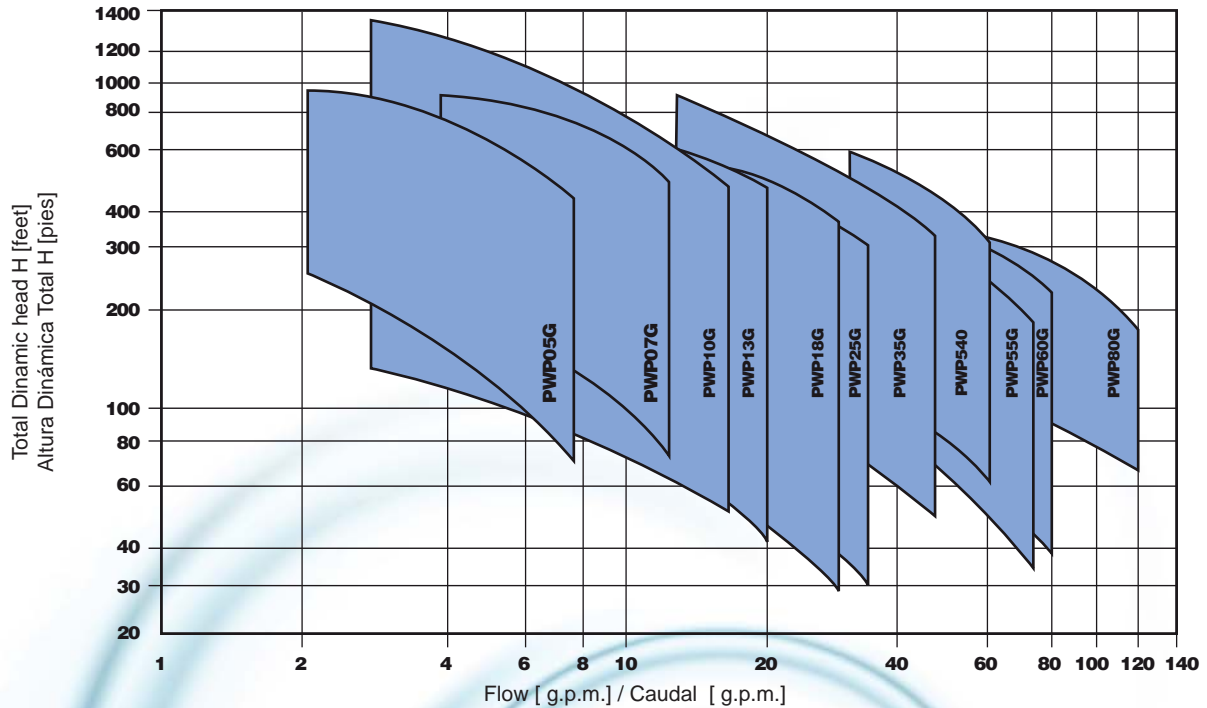
DISCHARGE HEAD	Stainless Steel 304, discharge 1 1/4" up to 25 GPM series and 2" from 35 GPM to 80 GPM series
MOTOR ADAPTER	Stainless Steel 304, NEMA standard
CHECK VALVE	Stainless Steel 304
EXTERNAL SLEEVE	Stainless Steel 304 Polished
IMPELLERS	Floating type impellers in Noryl
DIFFUSERS	Polycarbonate
SHAFT COUPLING	Stainless Steel 304
SHAFT	Stainless Steel 304
CABLE GUARD	Stainless Steel 304

Materiales de Construcción

DESCARGA	Acero inoxidable 304, diámetro de la descarga 1 1/4" en modelos hasta 25 GPM y 2" para modelos desde 35 gpm hasta 80 GPM
ADAPTADOR DE MOTOR	NEMA estándar en acero inoxidable 304
VALVULA CHECK	Acero inoxidable 304
CAMISA EXTERNA	Acero inoxidable 304 Pulido
IMPULSORES	Tipo flotante en Noryl
DIFUSORES	Tecnopolímero
ACOPLE DEL MOTOR	Acero inoxidable 304
EJE	Acero inoxidable 304
GUARDA CABLE	Acero inoxidable 304

Range of Performance and Nomenclature Information Rango de Operación e Información de la Nomenclatura

Performance Curves at 3450 r.p.m / Curvas de Rendimiento a 3450 r.p.m



Reading the Pump Data in the Label / Lectura de la información de la bomba en la etiqueta

Example / Ejemplo:

Model | Modelo

Pearl

HP

Model: 4PWP10G HP: 2

Pump shut off | Altura máxima total

H. max: 640 feet RPM: 3450

Motor RPM | RPM del motor

Pump head at designed flow | Presión en caudal nominal

H: 485 feet Q: 10 GPM

Designed pump range | Caudal nominal

S/N: T11010240001_001

Pump serial number | Número de serie de la bomba

Data Code DC 11A

Production data code | Fecha de producción

Model Number/
Modelo

4

WELL DIAMETER
Diámetro del pozo
4 = 4 inches / plg
6 = 6 inches / plg

PWP

TYPE
Tipo
PWP = Plastic Impeller
Impulsor plástico
PWS = 100% Stainless Steel
Acero inoxidable

18G

SERIES
05G = 5GPM
07G = 7GPM
10G = 10GPM
13G = 13GPM
18G = 18GPM
25G = 25GPM
35G = 35GPM
40G = 40GPM
55G = 55GPM
60G = 60GPM
80G = 80GPM

10

HP
05 = 1/2 Hp
07 = 3/4 Hp
10 = 1 Hp
15 = 1.5 Hp
20 = 2 Hp
30 = 3 Hp
50 = 5 Hp
75 = 7.5 Hp
100 = 10 Hp

Weight and Dimensions with Pearl 4" Motors Pesos y Dimensiones con Motor Pearl 4"

MODEL MODELO	HP	KW	PUMP END H1 HIDRÁULICA H1				1 PH MOTOR - 3W / MOTOR 1F - 3 HILOS						1 PH MOTOR - 2W / MOTOR 1F - 2 HILOS						3 PH MOTOR - 3W / MOTOR 3F - 3 HILOS							
			HEIGHT ALTURA		WEIGHT PESO		MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR					
			inches plg		cm		lbs		kg		inches plg		cm		lbs		kg		inches plg		cm		lbs		kg	
			inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg		
4PWP25G10	1.0	0.75	12.6	32.0	6.9	3.1	11.3	28.6	23.9	60.6	26.7	12.1	17.9	45.5	30.5	77.5	27.4	12.4	10.5	26.6	23.1	58.6	24.5	11.1		
4PWP25G15	1.5	1.1	14.6	37.0	7.7	3.5	13.0	33.1	27.6	70.1	32.0	14.5	19.7	50.0	34.3	87.0	32.7	14.8	11.3	28.6	25.8	65.6	27.6	12.5		
4PWP25G20	2	1.5	16.5	41.9	8.6	3.9	15.5	39.3	32.0	81.2	37.3	16.9							13.7	34.8	30.2	76.7	32.9	14.9		
4PWP25G30	3	2.2	20.4	51.8	10.4	4.7	16.3	41.3	36.7	93.1	40.9	18.5							15.5	39.3	35.9	91.1	39.1	17.7		
4PWP25G50	5	3.7	32.5	82.6	15.7	7.1	26.9	68.4	59.4	151.0	74.3	33.6							24.2	61.4	56.7	144.0	66.5	30.1		
4PWP35G10	1.0	0.75	14.1	35.9	7.5	3.4	11.3	28.6	25.4	64.5	27.4	12.4	17.9	45.5	31.8	80.8	28.1	12.7	10.5	26.6	24.6	62.5	25.2	11.4		
4PWP35G15	1.5	1.1	16.6	42.1	8.8	4.0	13.0	33.1	29.6	75.2	33.2	15.0	19.7	50.0	36.3	92.1	33.8	15.3	11.3	28.6	27.8	70.7	28.7	13.0		
4PWP35G20	2	1.5	19.0	48.3	10.2	4.6	15.5	39.3	34.5	87.6	38.9	17.6							13.7	34.8	32.7	83.1	34.5	15.6		
4PWP35G30	3	2.2	23.9	60.7	12.6	5.7	16.3	41.3	40.2	102.0	43.1	19.5							15.5	39.3	39.4	100.0	41.3	18.7		
4PWP35G50	5	3.7	35.2	89.3	17.9	8.1	26.9	68.4	62.1	157.7	76.5	34.6							24.2	61.4	59.3	150.7	68.7	31.1		
4PWP35G75	7.5	5.5	49.5	125.7	25.6	11.6													26.9	68.4	76.4	194.1	84.4	38.2		
4PWP40G15	1.5	1.1	12.8	32.5	6.9	3.1	13.0	33.1	25.8	65.6	31.2	14.1	19.7	50.0	32.5	82.5	31.8	14.4	11.3	28.6	24.1	61.1	26.7	12.1		
4PWP40G20	2	1.5	14.0	35.6	7.5	3.4	15.5	39.3	29.5	74.9	36.2	16.4							13.7	34.8	27.7	70.4	31.8	14.4		
4PWP40G30	3	2.2	16.5	41.8	8.8	4.0	16.3	41.3	32.7	83.1	39.3	17.8							15.5	39.3	31.9	81.1	37.6	17.0		
4PWP40G50	5	3.7	23.8	60.4	12.6	5.7	26.9	68.4	50.7	128.8	71.2	32.2							24.2	61.4	48.0	121.8	63.4	28.7		
4PWP40G75	7.5	5.5	33.8	85.9	17.2	7.8													26.9	68.4	60.7	154.3	76.0	34.4		
4PWP55G15	1.5	1.1	17.0	43.3	9.5	4.3	13.0	33.1	30.1	76.4	33.8	15.3	19.7	50.0	36.7	93.3	34.5	15.6	11.3	28.6	28.3	71.9	29.4	13.3		
4PWP55G20	2.0	1.5	21.1	53.7	11.7	5.3	15.5	39.3	36.6	93.0	40.4	18.3							13.7	34.8	34.8	88.5	36.0	16.3		
4PWP55G30	3.0	2.2	25.2	64.1	13.7	6.2	16.3	41.3	41.5	105.4	44.2	20.0							15.5	39.3	40.7	103.4	42.4	19.2		
4PWP55G50	5.0	3.7	37.5	95.3	19.9	9.0	26.9	68.4	64.4	163.7	78.5	35.5							24.2	61.4	61.7	156.7	70.7	32.0		
4PWP55G75	7.5	5.5	53.0	134.5	27.2	12.3													26.9	68.4	79.9	202.9	86.0	38.9		
4PWP60G15	1.5	1.1	14.9	37.8	8.6	3.9	13.0	33.1	27.9	70.9	32.9	14.9	19.7	50.0	34.6	87.8	33.6	15.2	11.3	28.6	26.1	66.4	28.5	12.9		
4PWP60G20	2	1.5	16.9	43.0	9.7	4.4	15.5	39.3	32.4	82.3	38.5	17.4							13.7	34.8	30.6	77.8	34.0	15.4		
4PWP60G30	3	2.2	21.0	53.4	11.7	5.3	16.3	41.3	37.3	94.7	42.2	19.1							15.5	39.3	36.5	92.7	40.4	18.3		
4PWP60G50	5	3.7	29.2	74.2	15.9	7.2	26.9	68.4	56.1	142.6	74.5	33.7							24.2	61.4	53.4	135.6	66.7	30.2		
4PWP60G75	7.5	5.5	43.0	109.2	22.3	10.1													26.9	68.4	69.9	177.6	81.1	36.7		
4PWP80G30	3	2.2	18.6	47.2	9.7	4.4	16.3	41.3	34.8	88.5	40.2	18.2							15.5	39.3	34.1	86.5	38.5	17.4		
4PWP80G50	5	3.7	29.3	74.3	12.4	5.6	26.9	68.4	56.2	142.7	70.9	32.1							24.2	61.4	53.4	135.7	63.2	28.6		
4PWP80G75	7.5	5.5	42.6	108.1	21.9	9.9													26.9	68.4	69.5	176.5	80.7	36.5		

Weight and Dimensions with Franklin Electric Motors Pesos y Dimensiones con Motor Franklin Electric

MODEL MODELO	HP	KW	PUMP END H1 HIDRÁULICA H1				1 PH MOTOR - 3W / MOTOR 1F - 3 HILOS						1 PH MOTOR - 2W / MOTOR 1F - 2 HILOS						3 PH MOTOR - 3W / MOTOR 3F - 3 HILOS							
							MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR					
			HEIGHT ALTURA		WEIGHT PESO		HEIGHT ALTURA		WEIGHT PESO		HEIGHT ALTURA		WEIGHT PESO		HEIGHT ALTURA		WEIGHT PESO		HEIGHT ALTURA		WEIGHT PESO		HEIGHT ALTURA		WEIGHT PESO	
			inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg		
4PWP25G10	1.0	0.75	12.6	32.0	6.9	3.1	11.7	29.8	24.3	61.8	30.9	14.0	11.7	29.8	24.3	61.8	30.9	14.0	11.7	26.6	23.1	58.6	30.9	14.0		
4PWP25G15	1.5	1.1	14.6	37.0	7.7	3.5	13.6	34.5	28.2	71.5	35.8	16.2	15.1	38.4	29.7	75.4	38.9	17.6	11.7	28.6	25.8	65.6	31.8	14.4		
4PWP25G20	2	1.5	16.5	41.9	8.6	3.9	15.1	38.4	31.6	80.3	41.8	18.9							13.6	34.8	30.2	76.7	36.7	16.6		
4PWP25G30	3	2.2	20.4	51.8	10.4	4.7	19.0	48.4	39.4	100.2	51.5	23.3							16.0	39.3	35.9	91.1	45.5	20.6		
4PWP25G50	5	3.7	32.5	82.6	15.7	7.1	29.2	74.1	61.7	156.7	86.9	39.3							23.2	61.4	56.7	144.0	71.8	32.5		
4PWP35G10	1.0	0.75	14.1	35.9	7.5	3.4	11.7	29.8	25.9	65.7	31.6	14.3	11.7	29.8	25.9	65.7	31.6	14.3	11.7	26.6	24.6	62.5	31.6	14.3		
4PWP35G15	1.5	1.1	16.6	42.1	8.8	4.0	13.6	34.5	30.2	76.6	36.9	16.7	15.1	38.4	31.7	80.5	40.0	18.1	11.7	28.6	27.8	70.7	32.9	14.9		
4PWP35G20	2	1.5	19.0	48.3	10.2	4.6	15.1	38.4	34.1	86.7	43.3	19.6							13.6	34.8	32.7	83.1	38.2	17.3		
4PWP35G30	3	2.2	23.9	60.7	12.6	5.7	19.0	48.4	42.9	109.1	53.7	24.3							16.0	39.3	39.4	100.0	47.7	21.6		
4PWP35G50	5	3.7	35.2	89.3	17.9	8.1	29.2	74.1	64.3	163.4	89.1	40.3							23.2	61.4	59.3	150.7	74.0	33.5		
4PWP35G75	7.5	5.5	49.5	125.7	25.6	11.6													29.2	68.4	76.4	194.1	97.5	44.1		
4PWP35G100	10	7.5	51.89	131.8	31.4	14.2													32.17	81.7	84.1	213.5	108.7	49.2		
4PWP40G15	1.5	1.1	12.8	32.5	6.9	3.1	13.6	34.5	26.4	67.0	34.9	15.8	15.1	38.4	27.9	70.9	38.0	17.2	11.7	28.6	24.1	61.1	30.9	14.0		
4PWP40G20	2	1.5	14.0	35.6	7.5	3.4	15.1	38.4	29.1	74.0	40.7	18.4							13.6	34.8	27.7	70.4	35.6	16.1		
4PWP40G30	3	2.2	16.5	41.8	8.8	4.0	19.0	48.4	35.5	90.2	49.9	22.6							16.0	39.3	31.9	81.1	44.0	19.9		
4PWP40G50	5	3.7	23.8	60.4	12.6	5.7	29.2	74.1	53.0	134.5	83.8	37.9							23.2	61.4	48.0	121.8	68.7	31.1		
4PWP40G75	7.5	5.5	33.8	85.9	17.2	7.8													29.2	68.4	60.7	154.3	89.1	40.3		
4PWP55G15	1.5	1.1	17.0	43.3	9.5	4.3	13.6	34.5	30.6	77.8	37.6	17.0	15.1	38.4	32.1	81.7	40.7	18.4	11.7	28.6	28.3	71.9	33.6	15.2		
4PWP55G20	2.0	1.5	21.1	53.7	11.7	5.3	15.1	38.4	36.2	92.1	44.9	20.3							13.6	34.8	34.8	88.5	39.8	18.0		
4PWP55G30	3.0	2.2	25.2	64.1	13.7	6.2	19.0	48.4	44.3	112.5	54.8	24.8							16.0	39.3	40.7	103.4	48.8	22.1		
4PWP55G50	5.0	3.7	37.5	95.3	19.9	9.0	29.2	74.1	66.7	169.4	91.1	41.2							23.2	61.4	61.7	156.7	76.0	34.4		
4PWP55G75	7.5	5.5	53.0	134.5	27.2	12.3													29.2	68.4	79.9	202.9	99.0	44.8		
4PWP60G15	1.5	1.1	14.9	37.8	8.6	3.9	13.6	34.5	28.5	72.3	36.7	16.6	15.1	38.4	30.0	76.2	39.8	18.0	11.7	28.6	26.1	66.4	32.7	14.8		
4PWP60G20	2	1.5	16.9	43.0	9.7	4.4	15.1	38.4	32.0	81.4	42.9	19.4							13.6	34.8	30.6	77.8	37.8	17.1		
4PWP60G30	3	2.2	21.0	53.4	11.7	5.3	19.0	48.4	40.1	101.8	52.8	23.9							16.0	39.3	36.5	92.7	46.9	21.2		
4PWP60G50	5	3.7	29.2	74.2	15.9	7.2	29.2	74.1	58.4	148.3	87.1	39.4							23.2	61.4	53.4	135.6	72.0	32.6		
4PWP60G75	7.5	5.5	43.0	109.2	22.3	10.1													29.2	68.4	69.9	177.6	94.1	42.6		
4PWP80G30	3	2.2	18.6	47.2	9.7	4.4	19.0	48.4	37.6	95.6	50.8	23.0							16.0	39.3	34.1	86.5	44.9	20.3		
4PWP80G50	5	3.7	29.3	74.3	12.4	5.6	29.2	74.1	58.4	148.4	83.5	37.8							23.2	61.4	53.4	135.7	68.5	31.0		
4PWP80G75	7.5	5.5	42.6	108.1	21.9	9.9													29.2	68.4	69.5	176.5	93.7	42.4		