



PRAKASH

Worldwide

Quality, Reliability, Life

DEWATERING MOBILE AND INTELLIGENT PUMP



Dewatering Mobile and Intelligent Pump

Applications

- Civil Engineering
- Mines, quarries, coal ore and slurries
- Sewage Treatment plants
- General pumping purposes

Function and feature

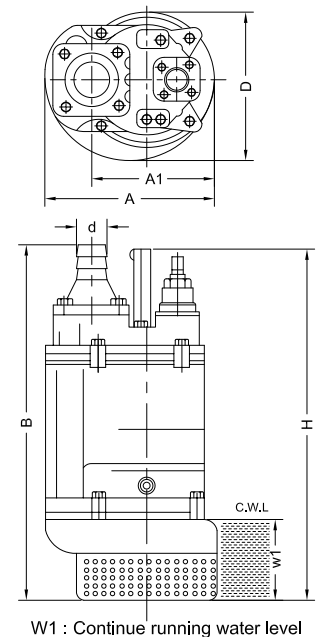
- Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and civil engineering.
- The body of motor and pump is made of rigid cast iron or stainless steel for long-lasting durability.
- Greatly increased maximum submersion depth due to mechanical seal resistance to high pressure (0.5Mpa)
- Semi-open impeller made of high chrome alloy match with wear plate (ductile iron) achieves superior durability.
- Effective motor cooling due to discharge channel cast iron as part of the motor housing. Space economy by a top outlet.
- Hermetically sealed motor equip build-in thermal protection. The protector in the motor can automatically cut off the power when it overheats or over current.

Specification

- Water temperature : up to 45°C
- Power Supply : Three phase 380V \pm 10%,50 Hz,60 Hz
- Power : 1.5 to 15Kw
- Insulation Class: F
- Protection Class : IP 68
- Capacity : up to 156 m³ /h
- Head : up to 56m
- Maximum immersion depth : 50m
- PH : 6.5 to 8.5
- Cable length 8m

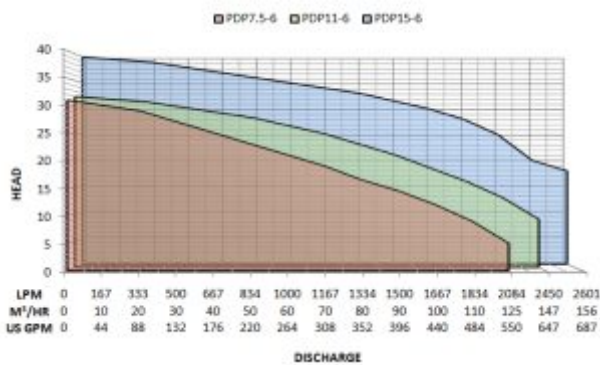
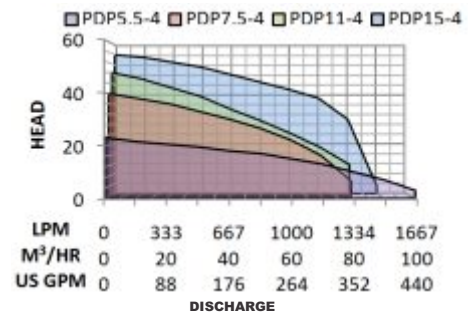
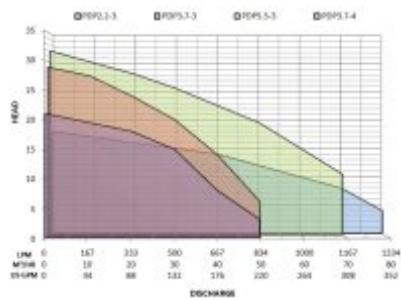
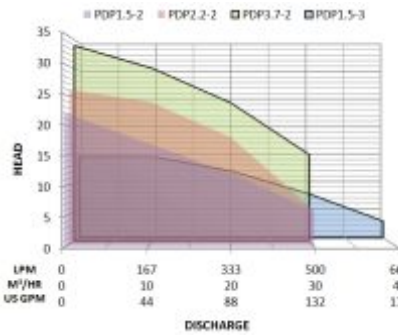


Model	Dimensions in mm						
	d	A	AI	B	D	H	WI
PDP1.5-2	50	23S	173	517	216	486	120
PDP2.2-2	50	235	173	517	216	486	120
PDP4.0-2	50	283	208	628	252	638	150
PDP1.5-3	80	235	173	517	216	486	120
PDP2.2-3	80	235	173	517	216	486	120
PDP4.0-3	80	283	208	628	525	638	150
PDP5.5-3	80	306	218	671	259	598	150
PDP4.0-4	100	283	208	642	252	638	150
PDP5.5-4	100	306	218	686	259	598	150
PDP7.5-4	100	330	240	764	314	676	190
PDP11-4	100	373	255	807	350	695	190
PDP15-4	100	373	255	842	350	755	190
PDP7.5-6	150	330	240	790	314	676	190
PDP11-6	150	373	255	807	350	695	190
PDP15-6	150	373	255	842	350	755	190



Pump Selection Chart:

Model	Power		Outlet Inch	Impeller passage (mm)	N.W (Kg)	Q															
	KW	HP				H Meters															
						US GPM	0	44	88	132	176	220	264	308	352	396	440	484	550	647	687
M ³ /HR	LPM	0	10	20	30	40	50	60	70	80	90	100	110	125	147	156					
						0	167	333	500	667	834	1000	1167	1334	1500	1667	1834	2084	2450	2601	
PDP1.5-2	1.5	2	2	8.5	34.5	22	17	12	6												
PDP2.2-2	2.2	3	2	8.5	36	26	24	18	6												
PDP4.0-2	4.1	5.5	2	8.5	60	34	30	24	15												
PDP1.5-3	1.5	2	3	8.5	34.5	15	14.5	12	8	3											
PDP2.2-3	2.2	3	3	8.5	36	21	19.5	18	15	8	3										
PDP4.0-3	4.1	5.5	3	8.5	60	29	27.5	24	20	14	6										
PDP5.5-3	5.5	7.5	3	8.5	77	32	30	28	25.5	22.5	19.5	15	10.5	6							
PDP4.0-4	4.1	5.5	4	8.5	61	18	17	16	15	14	12	10	8	4							
PDP5.5-4	5.5	7.5	4	8.5	78	23	21.5	20.5	19.5	18	17	15	13	10	7	3					
PDP7.5-4	7.5	10	4	11.5	105	40	38	36	33	30	26.5	22	16	6							
PDP11-4	11	15	4	11.5	130	48.5	46	42.5	39	34	29.5	24.5	19	12							
PDP15-4	15	20	4	11.5	142	56	55	53	51	48	45	42	38.5	30	3						
PDP7.5-6	7.5	10	6	19.5	106	31	30	29	27	25	23	21	19	16.5	14.5	12	9	5			
PDP11-6	11	15	6	19.5	133	32	31.5	31	30	29	28	26.5	25	23	21	18.5	16	13	9		
PDP15-6	15	20	6	19.5	145	40	39.5	39	38	37	36	35	34	33	31.5	30	28	25	20	18	



Mobile Pump (Tawee)

Applications

- Civil Engineering
- Mines, quarries, coal ore and slurries
- Sewage Treatment plants
- General pumping purposes
- De-watering application
- Open well application

Function and Feature

- Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and civil engineering.
- The body of motor and pump is made of rigid cast iron or stainless steel for long-lasting durability.
- Greatly increased maximum submersion depth due to mechanical seal resistance to high pressure (0.5Mpa)
- Semi-open impeller made of high chrome alloy match with wear plate (ductile iron) achieves superior durability.
- Space economy by a top outlet.
- Protect against reverse phase.
- Protect against open phase or impeller jam, thus prevent accidental damage.
- Automatically stop the pump in event of overload, abnormal voltage and recovery 5min. later.
- The pump will stop working at high temperature, and will automatically boot after cooling to the specified temperature.
- Pump stop working at dry-running, and automatically switched on at a specified level.
- Effective motor cooling due to discharge channel cast as part of the motor housing, allowed to run at low water level for a Long time.

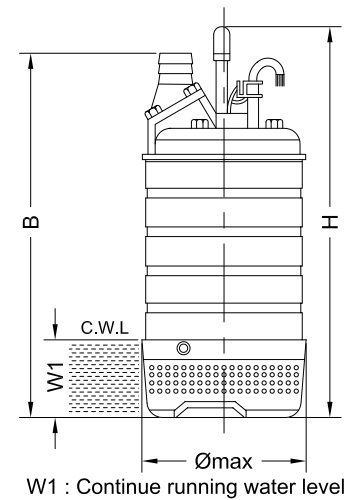
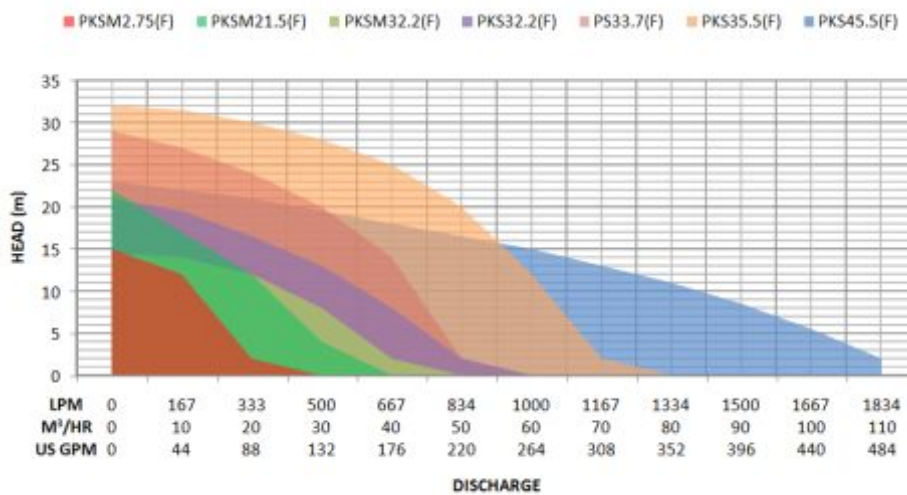
Specification

- Water temperature : up to 45°C
- Power Supply : single phase 220V \pm 10%,50 Hz, Three phase 380V \pm 10%,50 Hz
- Power : 0.8 to 11Kw
- Insulation Class: F
- Protection Class : IP 68
- Capacity : up to 110 m³ /h
- Head : up to 48.5m
- Maximum immersion depth : 0.75KW : 10m
- Maximum immersion depth : 1.5-5.5KW : 50m
- PH : 6.5 to 8.5



Model	Power		Vol.	Outlet inch	Outlet mm	Max. Cap.	Max. Head	Imp. Pas. (mm)	N.W (kg)	G.K. (kg)	Q	US GPM												
	KW	HP										0 44 88 132 176 220 264 308 352 396 440 484												
												M ³ /H 0 10 20 30 40 50 60 70 80 90 100 110												
												LPM 0 167 333 500 667 834 1000 1167 1334 1500 1667 1834												
PKSM2.75(F)	0.75	1	220	2	50	19.5	15	6	15.5	16.5	H(m)	15	12	2										
PKSM21.5(F)	1.5	2		2	50	27	22	8.5	36	40		22	17	12	4									
PKSM32.2(F)	2.2	3		3	80	40	14.5	8.5	36	40		14.5	14	12	8	2								
PKS32.2(F)	2.2	3	380	3	80	50	21	8.5	39.5	43.5		21	19.5	17	13	8	2							
PS33.7(F)	3.7	5		3	80	55	29	8.5	60.5	66.5		29	27.0	24	20	14	2							
PKS35.5(F)	5.5	7.5		3	80	70	32	8.5	67	73		32	31.5	30	28	25	20	12	2					
PKS45.5(F)	5.5	7.5		4	100	105	23	8.5	67	73		23	22	21	19.5	18	16.5	15	13	11	8.5	5.5	2	

Hydraulic Pump Performance



Thermal Overload Protector



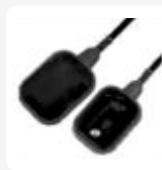
Thermal overload protector contains option of reset motor protector; it prevents motor burning due to high temperature, voltage drop, lock impeller or failure in phase.

U Type Impeller



U Type impeller can generate rapid rotating vortex to handle fluid mixed with long fiber, the majority of abrasive solids do not touch impeller to minimize impeller wearing.

Float Switch



Excellent quality float switch provided with epoxy resin sealed connector.

Intelligent Pump

Applications

- Civil Engineering
- Mines, quarries, coal ore and slurries
- Sewage Treatment plants
- General pumping purposes
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- Open well application

Function and Feature

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- The body of motor and pump is made of rigid cast iron or stainless steel for long-lasting durability.
- Greatly increased maximum submersion depth due to mechanical seal resistance to high pressure (0.5Mpa)
- Semi-open impeller made of high chrome alloy match with wear plate (ductile iron) achieves superior durability.
- Space economy by a top outlet.
- Built-in intelligent control system.
- Protect against reverse phase.
- Protect against open phase or impeller jam, thus prevent accidental damage.
- Automatically stop the pump in event of overload, abnormal voltage and recovery 5min. later.
- The pump will stop working at high temperature, and will automatically boot after cooling to the specified temperature.
- Pump stop working at dry-running, and automatically switched on at a specified level.
- Rapid assessment about the pump operation and malfunction history.
- Effective motor cooling due to discharge channel cast as part of the motor housing, allowed to run at low water level for a Long time.

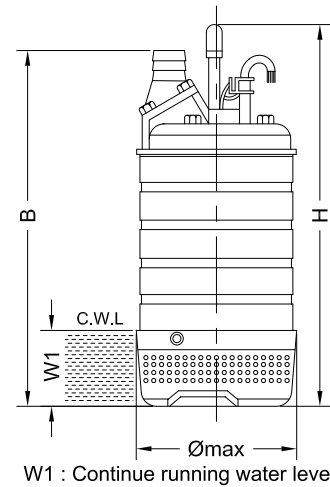
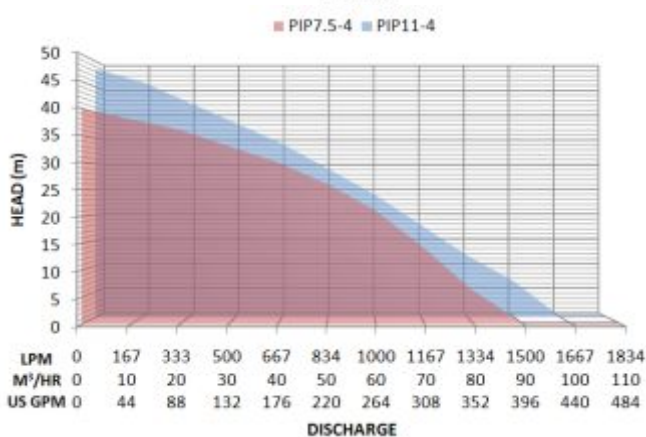
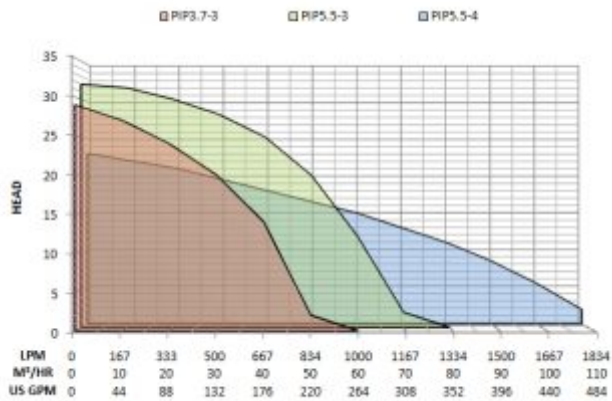
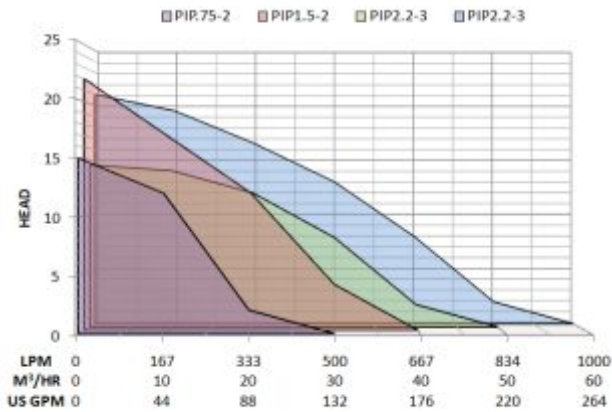
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- Head : up to 48.5m
- Maximum immersion depth : 0.75KW : 10m
- Maximum immersion depth : 1.5-5.5KW : 50m
- PH : 6.5 to 8.5



Model	Power		Vol.	Outlet Inch	Impeller Passage (mm)	N.W (Kg)	H (mm)	B (mm)	max (mm)	W1 (mm)	Q	US GPM												
	KW	HP										0 44 88 132 176 220 264 308 352 396 440 484												
												M ³ /H 0 10 20 30 40 50 60 70 80 90 100 110												
												LPM 0 167 333 500 667 834 1000 1167 1334 1500 1667 1834												
PIR.75-2	0.3	1	220	2	6	15.5	-	-	184	50	H(m)	15	12	2										
PIP1.5-2	1.5	2		2	8.5	36	570	545	240	87		22	17	12	4									
PIP2.2-3	2.2	3		3	8.5	36	590	565	240	87		14.5	14	12	8	2								
PIP2.2-3	2.2	3	380	3	8.5	39.5	590	565	240	87		21	19.5	17	13	8	2							
PIP3.7-3	3.7	5		3	8.5	60.5	660	565	300	76		29	27.0	24	20	14	2							
PIP5.5-3	5.5	7.5		3	8.5	67	700	605	300	76		32	31.5	30	28	25	20	12	2					
PIP5.5-4	5.5	7.5	4	8.5	67	700	605	300	76	23		22	21	19.5	18	16.5	15	13	11	8.5	5.5	2		
PIP7.5-4	7.5	10	4	11.5	-	900	780	354	142	40		38	36	33	30	26	21	14	6					
PIP11-4	11	15	4	11.5	-	945	825	354	142	48.5		46	42	38	34	29	24	18	12	7				

Hydraulic Pump Performance



W1 : Continue running water level

Thermal Overload Protector



Thermal overload protector contains option of reset motor protector; it prevents motor burning due to high temperature, voltage drop, lock impeller or failure in phase.

U Type Impeller



U Type impeller can generate rapid rotating vortex to handle fluid mixed with long fiber, the majority of abrasive solids do not touch impeller to minimize impeller wearing.

Intelligent Sensor



Expert in understanding pump running condition & its circumstance.



Worldwide

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