



WATERING INDIA TO FLOW



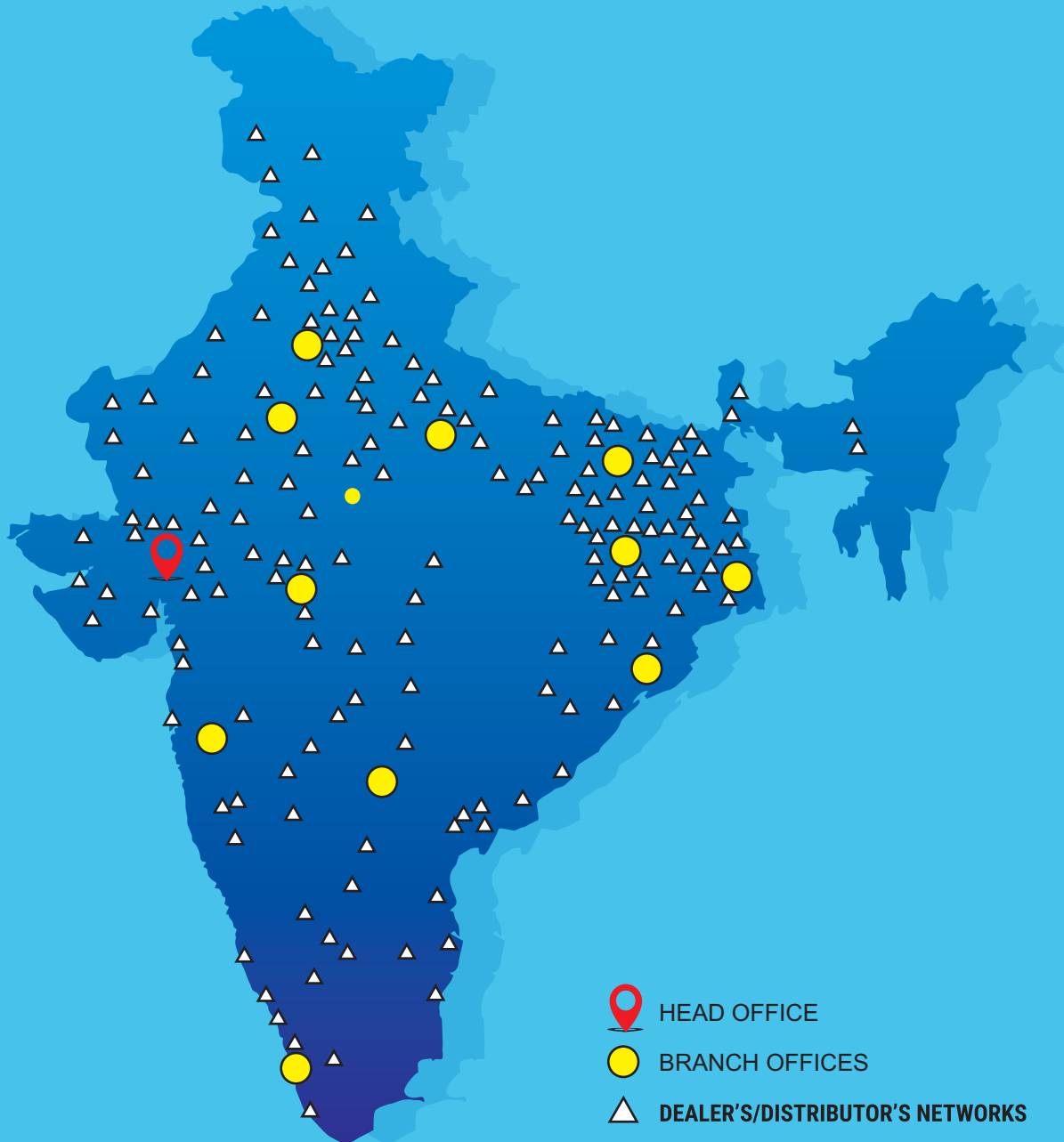
“STAINLESS STEEL SUBMERSIBLE PUMPSET”



OUR
PRODUCT
RANGE



BRANCH OFFICES/ DEALER NETWORK



OFFICES: AHMEDABAD | BHUBANESHWAR | DELHI | KANPUR |
PATNA | PUNE | RANCHI | INDORE | SECUNDERABAD



Who we are?

As India's leading manufacturer of energy efficient submersible pumps, we are well-known in our industry. We create our products for a number of sectors which include agricultural, industrial, domestic and horticultural.

Our Company is in the business of manufacturing of pumping solutions for Domestic, agriculture & Industrial sectors. Pumps includes Submersible, Self-Priming, Centrifugal Monoblock, Shallow-well and Horizontal Openwell Submersible Pumpsets since year 2004.

Company manufactures more than 700 models of pumps at its portfolio. These pumps are manufactured and marketed all over India. We are pioneer in manufacturing Submersible pumps.

The company started manufacturing in year 2004 in Chhatraal, Gujarat and moved to a strategic location of GIDC Naroda, Gujarat with an area of 5,718 sq. meters in year 2011. The company currently has an installed production capacity of approximate 1,20,000 pumps per annum. The manufacturing facilities are equipped with requisite machineries, measuring instruments and testing equipments to keep up a constant check on quality.

The company is an ISO 9001:2015 certified company for certifying the quality system of our company. Our product are having BIS mark as under:

1) Submersible Pumpsets	Against IS 8034:2002
2) Regenerative Self priming Pumpsets	Against IS 8472:1998
3) Electrical Monoset Pumps	Against IS 9079:2018
4) Openwell Submersible Pumpsets	Against IS 14220:2018
5) Motors for Submersible Pumpsets	Against IS 9283:2013

In our Submersible Pumpsets we have about 200 models are having 5 star marking issued from Bureau of Energy Efficiency and we are going to add some more models in our range of star marking products.

Our Company manufactures pumps of various sizes, structures, technicalities which form the deciding factor for the usages and pricing of the product. We require raw materials like EC grade copper winding wire and cable, stainless steel pipe, stainless steel round bar, electrical sheet stamping, CI/SS castings, etc. which are procured from various industries from domestic market. We have a dedicated team of engineers which continuously look for improving the design, performance and quality of the pumps we manufacture. Our customers are mostly dealers and direct users. Our relationship with our wide reached dealers and esteemed customer base are key factors for our success in the industry.

Our Company is promoted and managed by Mr. Kapoor Chand Garg and Mr. Pawan Garg. Our promoters are actively and fully involved in the day-to-day affairs of our company's operations. They have more than a decade of experience in the pumps industry.

Our presence in the business for more than a decade have created a brand image which is also the effort of the industry experience we have, our brand is well accepted by the market and we shall continue to strengthen our brand by providing quality products at competitive rates across the global market in coming years. Strengthen our brand by providing quality products at competitive rates across the global market in coming years.



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Miles to go...



Quality Policy

with a focus on continual
improvement in customer centricity
through technological processes & innovation.

We at **Latteys Industries Limited** are compliant to applicable requirements to make our **Quality Management System** the fulcrum to achieve these core objectives and build a institution that continues to be relevant beyond a hundred years.

This policy has been dully communication to all employees & interested Parties/Dealers/Distributors to meet the needs of

QMS ISO 9001 : 2015.

Director

Dated



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Watering India to Flow



V4

SINGLE/THREE PHASE
100MM WATER FILLED
304 STAINLESS STEEL
SUBMERSIBLE PUMPSETS

BORE SIZE:
MIN. 100MM
MAX OD:
97MM

V4 SINGLE PHASE WATER FILLED & OIL FILLED SUBMERSIBLE PUMPSETS SUITABLE FOR 100MMBORE WELL OR ABOVE

DESCRIPTION

We manufactured Submersible Pumpsets as per IS: 8034 Standard which can be used in the field of advanced technology.

All parts are manufactured and fitted precisely using CNC machine that imparts excellent mechanical strength and reliability. The electrical design of Latteys Motors has been done with enamelled/ polyester Coated winding to improve efficiency and reduce electrical consumption.

4" OIL/WATER FILLED SUBMERSIBLE PUMPSETS

Salient Features

- Motor fitted with anti-friction pre-lubricated angular contact bearings suitable for axial/radial load and longer life of motor
- The motor is filled with food grade insulating oil which lubricates the bearings and improves thermal conductivity to reduce chance of burning.
- Motor are design to operate under large voltage fluctuations and available in CSR/CSCR.
- Dynamically Balancing Rotating part to ensure minimum noise and vibration-free operation.
- High operating efficiency of pumpset result into High water discharge plate and lower power consumption.
- Pumps available with non-return valve to reduce the backpressure of water when they are switched-off.
- Impeller and Bowl are accurately machined by CNC machine to ensure high dimension accuracy.
- Superior designed Noryl impellers and diffusers give higher hydraulic performance and greater efficiency and provide higher resistance against wear and tear through sand and other impurities.
- Stainless steel strainer prevents particles over a certain size from entering the pump.

Application

Sprinkler & drip irrigation | Civil & Industries | Fire fighting system | Agriculture | Gardening | Hospitality

MATERIAL OF CONSTRUCTION

Motor Body	: Stainless Steel
Stator	: Vacuum Impregnated and epoxy coated for corrosion resistance. Thick end laminations are provided to protect motor windings.
Rotor	: Coated with polyurethane paint for corrosion resistance and dynamically balanced for vibration free smooth operations.
Windings	: PVC/ Polyester insulated or Enamelled insulated copper.
Bearings	: Heavy duty angular contact bearing/Ball bearing with high load bearing capacity.
Thrust Bearings	: Special Self-alignmning and water lubricated to with stand high axial thrust load.
Breather diaphragm	: Adequately sized to accommodate expansion of water inside the motor and prevent loss cooling water .
Impeller	: High quality abrasion resistant Noryl/SS Impeller & dynamically balanced.
Bowl	: High Grade Noryl/Cast Iron.
Wear Rings	: High quality resistance P.U. /Rubber.
Shaft	: Stainless Steel of adequate diameter to ensure rigidity and ground to close tolerances.
Suction Casing	: Provided with perforated Stainless Steel Stainer and adequately size to allow the water to be sucked-in with minimum friction.
Cable Sealing	: Designed so that no Borwell water with sand can enter the motor.

V4 SINGLE & THREE PHASE 100MM WATER AND OIL FILLED STAINLESS STEEL FABRICATED SUBMERSIBLE PUMPSET SUITABLE FOR MIN.100MM BOREWELL OR ABOVE; MAX. OD: 97MM

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 200~300 VOLTS, 1-PHASE/80~415VOLTS, 3 PHASE, 50 HZ, A.C. SUPPLY

LPOSX402/LPWSX402			Outlet Size :-32mm (Radial Flow)							
MOTOR RATING			Head(M)	Discharge (LPM)						
kW	HP	Stage		0	20	25	30	35	40	50
0.37	0.50	6		36	32	29	26	23	16	11
0.37	0.50	9		53	48	44	38	34	24	17
0.55	0.75	13		77	69	64	55	49	35	24
0.75	1.00	18		107	95	88	77	68	48	34
1.10	1.50	23		136	122	112	98	87	62	43
1.50	2.00	28		166	148	137	119	106	75	52
1.50	2.00	33		195	175	161	140	125	89	62
2.20	3.00	40		240	213	193	173	153	107	73
2.20	3.00	48		288	256	232	208	184	128	88
3.00	4.00	55		330	293	266	238	211	147	101

LPOSX403/LPWSX403				Outlet Size :-32mm (Radial Flow)						
MOTOR RATING			Head(M)	Discharge (LPM)						
kW	HP	Stage		0	25	30	40	50	70	75
0.37	0.50	6		38	34	33	31	27	18	15
0.55	0.75	9		57	51	50	46	41	27	23
0.75	1.00	10		65	58	53	48	40	30	20
0.75	1.00	12		76	68	66	61	54	36	31
1.10	1.50	15		95	85	83	77	68	44	39
1.10	1.50	18		113	102	99	92	82	53	46
1.10	2.00	20		120	110	106	98	90	70	50
1.50	2.00	22		139	125	121	112	100	65	57
1.50	2.00	25		158	142	138	128	114	74	64
2.20	3.00	29		183	164	160	148	132	86	75
2.20	3.00	33		208	187	182	169	150	98	85
3.00	4.00	39		247	221	215	198	176	117	101
3.00	4.00	45		285	255	248	229	203	132	116
3.70	5.50	52		329	295	286	264	234	156	134
3.70	5.50	60		380	340	330	305	220	180	155

Performance may vary depending on Voltage, Frequency and Field Condition

V4 SINGLE & THREE PHASE 100MM WATER AND OIL FILLED STAINLESS STEEL FABRICATED SUBMERSIBLE PUMPSET SUITABLE FOR MIN.100MM BOREWELL OR ABOVE; MAX. OD: 97MM

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 200~300 VOLTS, 1-PHASE/80~415VOLTS, 3 PHASE, 50 HZ, A.C. SUPPLY

LPOSX405/LPWSX405			Outlet Size :-38mm (Radial Flow)							
MOTOR RATING			Head(M)	Discharge (LPM)						
kW	HP	Stage		0	31	48	68	85	100	112
0.37	0.50	4		26	23	21	19	16	12	8
0.55	0.75	6		39	35	32	29	24	18	12
0.75	1.00	8		52	46	42	38	32	24	16
1.10	1.50	12		78	69	66	57	48	36	24
1.50	2.00	17		111	98	89	81	68	51	34
2.20	3.00	20		131	115	104	94	78	57	36
2.20	3.00	21		137	121	110	100	84	63	42
2.20	3.00	25		163	144	131	119	100	76	50
3.00	4.00	33		215	190	173	157	132	100	66
3.70	5.50	38		248	219	200	181	152	115	76
3.70	5.50	44		287	253	231	209	176	133	88
5.50	7.50	52		338	302	276	250	208	156	104
5.00	7.50	60		390	348	318	288	240	180	120

LPOSX408/LPWSX408				Outlet Size :-50mm (Radial Flow)						
MOTOR RATING			Discharge (LPM)							
kW	HP	Stage	Head(M)	0	34	68	100	135	168	184
0.75	1.00	5		30	28	25	23	21	16	12
1.10	1.50	7		42	39	35	32	29	22	17
1.50	2.00	10		60	55	50	46	41	31	24
2.20	3.00	12		72	66	60	55	49	37	29
2.20	3.00	15		90	83	75	69	62	47	36
3.00	4.00	18		108	99	90	83	74	56	43
3.70	5.50	21		126	116	105	97	86	65	50
3.70	5.50	25		150	138	125	115	103	78	60
5.50	7.50	30		180	166	150	138	123	93	72
5.50	7.50	37		222	204	185	170	152	115	89
7.50	10.00	44		264	243	220	202	180	136	106

Performance may vary depending on Voltage, Frequency and Field Condition

LPOSX414/LPWSX414			Outlet Size :-50mm (Radial Flow)							
MOTOR RATING			Discharge (LPM)							
kW	HP	Stage	Head(M)	0	203	232	241	258	271	340
1.50	2.00	5		30	19	16	15	13	11	4
2.20	3.00	7		42	26	23	21	18	16	5
2.20	3.00	8		48	30	26	24	21	18	6
3.00	4.00	10		60	38	33	30	26	22	7
3.70	5.00	13		78	49	42	39	34	29	10
5.50	7.50	20		130	93	80	75	69	62	20
7.50	10.00	28		182	131	112	105	96	83	25

Performance may vary depending on Voltage, Frequency and Field Condition



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V6

THREE PHASE
304 STAINLESS STEEL
SUBMERSIBLE PUMPSETS

BORE SIZE:
MIN. 150MM
MAX OD:
147MM

V6 THREE PHASE SS-304 STAINLESS STEEL WATER FILLED SUBMERSIBLE PUMPSETS SUITABLE FOR 150MM BORE WELL OR ABOVE

DESCRIPTION

We manufactured Submersible Pumpsets as per IS: 8034 Standard which can be used in the field of advanced technology.

All parts are manufactured and fitted precisely using CNC machine that imparts excellent mechanical strength and reliability. The electrical design of Latteys Motors has been done with polyester Coated winding to improve efficiency and reduce electrical consumption.

6" WATER FILLED SUBMERSIBLE

Salient Features

- Induction motors are easily re-windable using multi layer PVC insulated wire for better reliability.
- Motor filled with water gives better cooling to winding as well as bush.
- Self-aligned carbon Stainless steel thrust bearing which withstands high axial thrust load in water lubrication.
- Electrically designed to lower power consumption and operating cost.
- Non-magnetic, corrosion-resistant high-grade stainless steel stator body.
- Water-filled motor is available in capacitor start and run design.
- Gun Metal bush is made with additional centrifugal molding process and 2% Nickel is added.
- Superior designed SS impellers and diffusers give higher hydraulic performance and greater efficiency and provide higher resistance against wear and tear from sand and other impurities.
- Dynamically balanced rotating parts to ensure minimum noise and vibration.
- Hydraulic parts are made with Investment Casting or Die-base molding process, which gives higher performance and higher efficiency.
- Individually and accurately balanced impeller gives better performance for lower power consumption.
- The pump shaft is made of stainless steel hardened and ground to close tolerance.
- Fitted with NRV & Flap to absorb thrust generated during switch off operation.

Application

Sprinkler & drip irrigation | Civil & Industries | Fire fighting system | Agriculture | Gardening | Hospitality

MATERIAL OF CONSTRUCTION

Motor Body	: Stainless Steel
Stator	: Vacuum Impregnated and epoxy coated for corrosion resistance. Thick end laminations are provided to protect motor windings.
Rotor	: Coated with polyurethane paint for corrosion resistance and dynamically balanced for vibration free smooth operations.
Windings	: PVC/ Polyester insulated.
Bearings	: Heavy duty angular contact bearing with high load bearing capacity.
Thrust Bearings	: Special Self-aligning and water lubricated to withstand high axial thrust load.
Breather diaphragm	: Adequately sized to accommodate expansion of water inside the motor and prevent loss cooling water.
Impeller	: SS-304 Fabricated finest Stainless Steel.
Bowl	: SS-304 Fabricated finest Stainless Steel.
Shaft	: Stainless Steel of adequate diameter to ensure rigidity and ground to close tolerances.
Casing	: SS-304
Cable Sealing	: Designed so that no Borewell water with sand can enter the motor.

V6 THREE PHASE 150MM WATER FILLED STAINLESS STEEL FABRICATED SUBMERSIBLE PUMPSET SUITABLE FOR MIN. 150MM BOREWELL OR ABOVE; MAX. OD: 147MM

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380~415 VOLTS, 3 PHASE, 50 HZ, A.C. SUPPLY

LPWSX610			Outlet Size :-50mm (Mixed Flow)							
MOTOR RATING			Discharge (LPM)							
kW	HP	Stage	Head(M)	0	100	132	160	220	270	320
2.20	3.00	6		63	59	54	50	46	40	28
2.20	3.00	7		73	68	63	58	53	46	32
3.00	4.00	10		104	98	90	83	76	66	46
3.70	5.50	14		146	137	127	117	106	92	64
5.50	7.50	15		156	146	136	125	114	99	69
5.50	7.50	18		188	176	163	150	137	119	83
7.50	10.00	20		208	195	181	167	152	132	92
7.50	10.00	24		250	234	217	200	182	158	110
9.30	12.50	30		313	293	271	250	228	198	138
11.00	15.00	36		375	351	326	300	273	237	165
15.00	20.00	40		417	390	362	333	303	263	183
15.00	20.00	44		458	429	398	367	334	290	202
18.50	25.00	54		563	527	488	450	410	356	248

LPWRF611B			Outlet Size :-65mm (Radial Flow)							
MOTOR RATING			Discharge (LPM)							
kW	HP	Stage	Head(M)	0	50	100	150	200	250	300
2.20	3.00	5		56	55	53	50	45	37	23
3.00	4.00	6		67	66	63	60	54	44	28
3.70	5.00	8		89	88	84	80	72	59	37
4.50	6.00	10		112	110	105	100	90	73	47
5.50	7.50	12		134	132	126	120	108	88	56
7.50	10.00	16		179	176	168	160	144	117	75
9.30	12.50	20		223	220	210	200	180	146	93
11.00	15.00	21		235	231	220	210	189	154	98
11.00	15.00	24		268	264	252	240	216	176	112
15.00	20.00	28		313	308	294	280	252	205	131
15.00	20.00	31		346	341	326	310	279	227	145

LPWRF615B			Outlet Size :-65mm (Radial Flow)							
MOTOR RATING			Discharge (LPM)							
kW	HP	Stage	Head(M)	0	100	150	200	250	300	350
3.00	4.00	4		49	47	45	43	39	32	24
3.70	5.00	5		61	59	56	54	49	40	30
3.70	5.00	6		74	70	68	64	58	48	36
4.50	6.00	6		74	70	68	64	58	48	36
5.50	7.50	8		98	94	90	86	78	65	48
5.50	7.50	9		110	106	101	97	88	72	54
7.50	10.00	10		123	118	113	108	98	81	60
7.50	10.00	12		147	141	135	129	117	96	72
9.30	12.50	12		147	141	135	129	117	96	72
11.00	15.00	15		184	176	169	161	146	120	90
11.00	15.00	18		220	212	202	194	176	144	108
15.00	20.00	21		257	247	236	226	205	168	126
15.00	20.00	24		294	282	270	258	234	194	144

Performance may vary depending on Voltage, Frequency and Field Condition

V6 THREE PHASE 150MM WATER FILLED STAINLESS STEEL FABRICATED SUBMERSIBLE PUMPSET SUITABLE FOR MIN. 150MM BOREWELL OR ABOVE; MAX. OD: 147MM

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380~415 VOLTS, 3 PHASE, 50 HZ, A.C. SUPPLY

LPWSX615				Outlet Size :-65mm (Mixed Flow)							
MOTOR RATING				Discharge (LPM)							
kW	HP	Stage	Head(M)	0	102	135	168	201	235	266	302
2.20	3.00	5		53	50	48	45	43	38	33	30
3.00	4.00	7		74	70	67	63	60	53	46	42
3.70	5.50	9		95	90	86	81	77	68	59	54
5.50	7.50	13		137	130	124	117	111	98	86	78
7.50	10.00	18		189	180	172	162	153	136	119	108
9.30	12.50	21		221	210	200	189	179	158	139	126
11.00	15.00	27		284	270	258	242	230	204	178	163
13.00	17.50	28		295	280	267	251	239	211	185	169
15.00	20.00	36		379	360	343	323	307	271	238	217
18.50	25.00	44		463	440	420	395	375	332	290	265

LPWSX617				Outlet Size :-65mm (Mixed Flow)						
MOTOR RATING				Discharge (LPM)						
kW	HP	Stage	Head(M)	0	150	200	250	300	333	383
2.20	3.00	5		57	54	50	46	41	34	27
3.00	4.00	6		68	65	60	55	49	40	32
3.70	5.00	8		91	87	80	73	65	54	43
5.50	7.50	9		102	97	91	82	73	60	48
5.50	7.50	12		136	130	121	110	98	80	64
7.50	10.00	16		181	173	161	147	130	107	85
9.30	12.50	20		226	217	201	183	163	134	107
11.00	15.00	24		272	260	241	220	195	161	128
13.00	17.50	27		306	292	272	247	220	181	144
15.00	20.00	32		362	347	322	293	260	214	171

LPWSX630				Outlet Size :-75mm (Mixed Flow)							
MOTOR RATING				Discharge (LPM)							
kW	HP	Stage	Head(M)	0	202	270	335	405	470	535	652
2.20	3.00	2		23	21	20	19	18	16	14	9
3.00	4.00	3		34	32	30	28	27	24	21	13
3.70	5.00	4		46	43	40	38	35	32	28	17
3.70	5.00	5		57	54	50	47	44	40	35	22
5.50	7.50	6		68	64	60	57	53	48	42	26
5.50	7.50	7		80	75	71	66	62	57	49	30
5.50	7.50	8		91	86	81	76	71	65	56	35
7.50	10.00	9		103	96	91	85	80	73	63	39
9.30	12.50	10		115	105	100	95	90	80	70	45
9.30	12.50	11		127	116	110	105	99	88	77	50
9.30	12.50	12		137	128	121	114	106	97	84	52
11.00	15.00	12		137	128	121	114	106	97	84	52
11.00	15.00	13		148	139	131	123	115	105	91	56
13.00	17.50	14		161	147	140	133	126	112	98	63
13.00	17.50	15		171	161	151	142	133	121	105	65
15.00	20.00	16		184	168	160	152	144	128	112	72
15.00	20.00	17		194	182	171	161	150	137	119	74

Performance may vary depending on Voltage, Frequency and Field Condition

V6 THREE PHASE 150MM WATER FILLED STAINLESS STEEL FABRICATED SUBMERSIBLE PUMPSET SUITABLE FOR MIN. 150MM BOREWELL OR ABOVE; MAX. OD: 147MM

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380~415 VOLTS, 3 PHASE, 50 HZ, A.C. SUPPLY

LPWSX646				Outlet Size :-75mm (Mixed Flow)							50Hz		
MOTOR RATING			Head(M)	Discharge (LPM)									Price
kW	HP	Stage		0	252	420	585	670	750	835	920	1000	
3.00	4.00	2		27	25	23	21	19	18	16	13	11	
3.70	5.00	3		41	38	35	31	29	26	23	20	16	
4.50	6.00	3		41	38	35	31	29	26	23	20	16	
5.50	7.50	4		54	50	46	41	38	35	31	26	21	
7.50	10.00	5		68	63	58	52	48	44	39	33	26	
9.30	12.50	6		81	75	69	62	58	53	47	40	32	
9.30	12.50	7		95	88	81	72	67	61	54	46	37	
11.00	15.00	8		108	100	92	82	77	70	62	53	42	
13.00	17.50	9		122	113	104	93	86	79	70	59	47	
15.00	20.00	10		135	126	115	103	96	88	78	66	53	
18.50	25.00	12		162	151	138	124	115	105	93	79	63	
22.50	30.00	15	203	188	173	155	144	131	116	99	79		

LPWSX660			Outlet Size :-75mm (Mixed Flow)								
MOTOR RATING			Discharge (LPM)								
kW	HP	Stage	Head(M)	0	335	502	670	835	1000	1168	1300
3.70	5.00	2		29	27	24	21	18	16	12	8
5.50	7.50	3		43	40	36	32	28	24	18	13
7.50	10.00	4		57	53	48	42	37	32	25	17
9.30	12.50	5		72	66	60	53	46	40	31	21
11.00	15.00	6		86	80	72	64	55	47	37	25
11.00	15.00	7		100	93	84	74	65	55	43	30
13.00	17.50	7		100	93	84	74	65	55	43	30
13.00	17.50	8		115	106	96	85	74	63	49	34
15.00	20.00	8		115	106	96	85	74	63	49	34
15.00	20.00	9		129	120	108	96	83	71	55	38
18.50	25.00	10		143	133	121	106	92	79	61	42
22.50	30.00	12	172	159	145	127	111	95	74	51	

Performance may vary depending on Voltage, Frequency and Field Condition

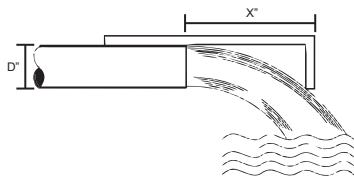
SUBMERSIBLE PUMPSET CABLE SELECTION CHART

HP	CABLE LENGTH IN METERS																			
	10	20	30	40	50	60	70	80	90	100	120	140	180	200	250	300	350	400	450	500
	Cable Size in Sq.mm																			
1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	4.00	4.00
2.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	4.00	4.00	4.00
3.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.50	4.00	4.00	4.00	6.00	6.00	6.00
4.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	4.00	6.00	6.00	6.00	6.00	10.00	10.00
5.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	2.50	2.50	4.00	6.00	6.00	10.00	10.00	10.00	10.00
6.00	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	6.00	6.00	10.00	10.00	10.00	10.00	16.00
7.50 S	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	4.00	4.00	6.00	6.00	10.00	10.00	10.00	16.00	16.00	16.00
7.50 D	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	4.00	4.00	6.00	6.00	6.00	10.00	10.00	10.00
10.00	1.50	1.50	1.50	1.50	1.50	1.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	6.00	6.00	10.00	10.00	10.00	10.00	16.00
12.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	4.00	4.00	6.00	6.00	10.00	10.00	10.00	16.00	16.00	16.00
15.00	2.50	2.50	2.50	2.50	2.50	2.50	2.50	4.00	4.00	4.00	4.00	6.00	6.00	10.00	10.00	10.00	16.00	16.00	16.00	16.00
17.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	6.00	6.00	10.00	10.00	10.00	16.00	16.00	16.00	25.00	25.00
20.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	6.00	6.00	10.00	10.00	10.00	16.00	16.00	16.00	25.00	25.00	25.00
25.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	6.00	6.00	10.00	10.00	16.00	16.00	25.00	25.00	25.00	25.00	25.00
30.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	10.00	10.00	10.00	10.00	16.00	16.00	25.00	25.00	35.00	35.00	35.00
40.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.00	16.00	25.00	25.00	35.00	35.00	50.00	50.00	50.00
50.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	25.00	25.00	35.00	35.00	50.00	50.00	70.00	70.00
60.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	35.00	35.00	50.00	50.00	70.00	70.00	70.00
70.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	35.00	35.00	50.00	50.00	70.00	70.00	70.00
80.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	50.00	50.00	70.00	70.00	95.00	95.00	95.00

Conversion Table: 1m = 3.28 ft | 1 ft = 0.305 m

For other Voltages the cable size is to be selected as follows:
 Calculated length = (220 / Volt) x actual length.

HORIZONTAL DISTANCE "X" IN INCHES	DISCHARGE MANAGEMENT CHART								
	DISCHARGE RATE (GALLONS PER MINUTE)								
	1"	1.25"	1.5"	2"	2.5"	3"	4"	5"	6"
1	5.7	9.8	13.3	22.0	31.0	49.0	83.0	130.0	190.0
2	7.1	12.2	16.6	28.0	39.0	61.0	104.0	165.0	240.0
3	8.5	14.7	20.0	33.0	47.0	73.0	125.0	195.0	285.0
4	10.0	17.1	23.2	39.0	55.0	85.0	146.0	230.0	335.0
5	11.3	19.6	26.5	44.0	62.0	98.0	166.0	260.0	380.0
6	12.8	22.0	29.8	50.0	70.0	110.0	187.0	295.0	430.0
7	14.2	24.5	33.2	55.0	78.0	122.0	208.0	325.0	475.0
8	15.6	26.0	36.5	61.0	86.0	134.0	229.0	360.0	525.0
9	17.0	29.0	39.0	66.0	94.0	147.0	250.0	390.0	570.0
10	18.5	31.5	43.0	72.0	101.0	159.0	270.0	425.0	620.0
11	20.0	34.0	46.5	77.0	109.0	171.0	291.0	450.0	665.0
12	21.3	36.3	49.6	83.0	117.0	183.0	312.0	490.0	710.0
13	22.7	39.0	53.0	88.0	125.0	196.0	333.0	520.0	760.0
14	24.1	41.5	56.3	94.0	133.0	208.0	353.0	555.0	810.0
15	25.5	43.7	59.6	99.0	140.0	220.0	374.0	590.0	855.0
16	27.0	46.2	62.9	105.0	148.0	232.0	395.0	620.0	905.0
17	28.4	48.6	66.2	111.0	156.0	244.0	416.0	650.0	950.0
18	29.8	51.0	69.5	116.0	164.0	256.0	437.0	685.0	1000.0
19	31.2	53.5	72.8	122.0	172.0	269.0	457.0	720.0	1050.0
20	32.7	55.9	76.1	127.0	179.0	281.0	478.0	750.0	1095.0
21	34.1	58.3	79.4	133.0	187.0	293.0	499.0	780.0	1140.0
22	35.5	60.7	82.7	138.0	195.0	306.0	520.0	815.0	1190.0
23	36.9	63.2	86.0	144.0	203.0	318.0	541.0	845.0	1235.0
24	38.3	65.6	89.3	149.0	211.0	330.0	561.0	880.0	1285.0



EXAMPLE :
HORIZONTAL DISTANCE
NORMAL PIPE DIAMETER
DISCHARGE

"X" = 15"
"D" = 2"
Q = 83 GPM

FOR CONVERSION OF GALLONS PER
MINUTE:
TO LITRES PER SECONDS:
 $83 \text{ GPM} = 83 \times 4.54 / 60 = 6.28 \text{ LPS}$

GENERATOR SELECTION CHART				
MOTOR			RECOMMENDED GENERATOR CAPACITY	
			INTERNALLY REGULATED	
S.No.	kW	HP	kW	HP
1	0.37	0.5	1.5	1.9
2	0.55	0.75	2	2.5
3	0.75	1	2.5	3.125
4	1.10	1.5	3	3.8
5	1.50	2	5	4
6	2.20	3	5	6.25
7	3.00	4	6	7.5
8	3.70	5	7.5	9.4
9	5.50	7.5	10	12.5
10	7.50	10	15	18.8
11	11.0	15	20	25
12	15.00	20	25	31
13	18.50	25	30	37.5
14	22.00	30	40	50
15	26.00	35	45	56.25
16	30.00	40	50	62.5
17	37.00	50	60	75
18	45.00	60	75	94
19	55.00	75	100	125
20	75.00	122	150	188
21	93.00	125	175	219



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