



LISTER PETTER

SUBMERSIBLE BOREHOLE PUMP SETS (50HZ)

LPS 4/6/8 SERIES

50Hz – 2900 rpm

DURABLE, RELIABLE, LOW MAINTENANCE, STAINLESS STEEL SUBMERSIBLE WELL/BOREHOLE PUMPS

DESCRIPTION

A Lister Petter Submersible Borehole Pump assembly is designed to pump water from a depth in a borehole well to an outlet on the surface or at a chosen height. The pump assembly comprises a pump and a motor. They are supplied separately to be coupled on site and every pump assembly must have a pump and a matching motor. When selecting a suitable pump from the ranges, three criteria are important:

- Diameter required (to match the borehole)
- Flow rate required (to match the production rate of the borehole/well)
- Head required (to match the height to which water must be pumped).

The Lister Petter series of Submersible Borehole Pumps are available in 4 inch diameter (LPS4S series), 6 inch diameter (LPS6S series) or 8 inch diameter (LPS8S series) to match the commonly occurring borehole sizes. They are manufactured from stainless steel (for corrosion resistance and durability).

To power the pumps, a matching range of Lister Petter Submersible Borehole Motors is available in corresponding diameters and power ratings. These are also of stainless



steel construction and are designed to operate submerged beneath the surface of the water. The Lister Petter submersible borehole pumps are coupled to Lister Petter 'LPO' series, oil filled, rewindable submersible motors or to Lister Petter 'LPW' series, water filled, submersible motors.

The pumps are made of corrosion resistance stainless steel with built in check valve. All vital components of these pump models are made of high quality 304 grade stainless steel and the shaft is of S.S.341 grade for all models. The optimal

design of impellers and diffusers enables the best possible hydraulic efficiency. The pumps are of multistage centrifugal type, which are firmly-coupled to the matching submersible electric motor, operating submerged beneath the surface of water.

A built in check valve prevents back flow, and reduces the risk of water hammer. All mounting dimensions of pumps and motors are in accordance with NEMA standards.

APPLICATIONS

Pumping water from boreholes/wells to obtain groundwater for:

- Domestic and civil water supply
- Irrigation
- Rural water supply
- Industrial processes and plants
- Sprinkler systems
- etc.

PUMPED LIQUIDS

Clean, thin, non-aggressive, non-explosive, clear, cold fresh water without abrasives, solid particles or fibre having the following characteristics:

Temperature	30°C max
Permissible amount of sand	50 g/m ³ (max)
Chlorine ion density	500 ppm (max)
Allowable solids	3000 ppm (max)
Specific gravity	1.004 (max)
Hardness (drinking water)	300 ppm (max)
Viscosity	1.75 x 10 ⁶ m ² /ec (max)
Turbidity	50 ppm silica scale (max)
pH	6.5 to 8.5

OIL FILLED REWINDABLE SUBMERSIBLE MOTOR SPECIFICATIONS

The Lister Petter ‘LPO’ series motors are wet type, oil filled, rewindable. The stator windings are of copper windings wires. The motor is pre-filled with non-toxic colourless white oil meeting the requirements of international authorities for pharmaceutical white oils. Before commissioning, check the level of oil inside the motor. If any loss of volume is noticed, refill with approved white oil through oil filling plugs/valves provided in the upper housing. Dynamically balanced rotors of the ‘LPO’ series motors maintain uniform clearance by giving better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed high performance thrust bearings are used, that can withstand high axial thrust loads with minimum wear and tear. The motor is sealed by means of ‘O’ rings, shaft seals and sand guards to avoid ingress of well water, sand and fibre particles into the motor.

WATER FILLED SUBMERSIBLE MOTOR SPECIFICATIONS

The Lister Petter ‘LPW’ series motors are wet type, water filled.

- 6” motors are of canned type design. The space between the stator, stainless steel protective can and frame is filled with epoxy resin, allowing faster and greater heat dissipation resulting in longer motor life. The motor lubrication is provided by the internal cooling water consisting of a water, antifreeze and antirust mixture. 6” motors are encapsulated, non-rewindable.
- 8” motors are of the traditional design and are rewindable.

The stator windings are of water proof synthetic film insulated copper windings wires. It features water lubricated thrust and journal bearings. The motor is pre-

filled with clear, cold, pure, fresh, filtered water. Before commissioning, check the level of water inside the motor. If any loss of volume is noticed, refill with clear, cold, pure, fresh, filtered water through water filling plugs/valves provided in the upper housing. Dynamically balanced rotors of the 'LPW' series motors maintain uniform clearance by giving better efficiency and increase the life cycle of the water lubricated bush bearings. Specially designed high performance thrust bearings are used, that can withstand high axial thrust loads with minimum wear and tear.

The motor is sealed by means of 'O' rings, shaft seals and sand guards to avoid ingress of well water, sand and fibre particles into the motor.

Where mains electricity is not available, unreliable, has insufficient supply capacity or is not going to be used, Lister Petter can supply matching Lister Petter generator sets that are configured to start automatically when water is available in the well to be stored or used and to stop automatically when the water level in the well is too low or water storage is full.

NOTE:-

All pumps installations will require the following extra installation equipment:

- Sufficient and suitable electrical supply cables to supply electricity to the motor from the surface to the pump motor at the base of the well.
- Appropriate waterproof electrical jointing for the cable connection to the pump motor.
- The water outlet of the pump must be connected to the surface by means of a vertical pipe. Therefore the installation will require sufficient and suitable pipework of the correct diameter with standard

connecting unions for the pump to pipe and pipe to pipe connections (see outlet diameter on the pump data). Please note that as the depth increases the water pressure in the pipe will increase at the rate of 1 atmosphere for every 10 metres of depth and pipes and unions must be able to withstand this internal pressure.

- A control box or control panel to enable the motor to be powered from the electricity supply when pumping is required. Note the following points:
 - Single phase circuits use two live wires plus a neutral and an earth protection wire. One of the live wires (as designated in the wiring diagram) must be connected to the supply via a motor-run capacitor.
 - The motor must not be permitted to run dry, also wells must not be pumped dry. Therefore, it is normal practice to install a water level switch in the well at a height just above the top of the motor. This signal is wired back to the control box to switch off the power if the water level falls too low.
 - Control boxes are normally built and installed by the on-site electrical contractor as part of the electrical installation.
 - Motors (for submersible pumps of any design) must not be repeatedly stopped and started. It will shorten their life.
- In order to lower and lift the pump assembly when required, the pump unit has lifting rings on the top. These must be connected to suitable corrosion resistant cables which will be left connected. These cables may also be the means by which the pump is suspended over the bed of the borehole (to prevent the motor sitting on the well floor). The cable must have sufficient tensile strength to support the pump assembly and pipe work.

ELECTRIC MOTOR SPECIFICATIONS

NOMINAL DIAMETER	4" (100 MM)
Maximum outer diameter	98 mm (max)
Power Range	0.37 to 2.2 kW – Single Phase 0.5 to 7.5 kW – Three Phase
Speed	2850 rpm
Version	Single Phase – 230V, 50 Hz, A.C. supply Three phase – 230 or 400V, 50 Hz, A.C. supply
Class of Insulation	F
Degree of Protection	IP68
Direction of Rotation	CCW – single Phase Electrically reversible – Three Phase
Type of Duty	1 (continuous)
Maximum Down Thrust Load	0.37 to 1.5 kW – 2000 N 2.2 kW – 3000N 3 to 7.5 kW – 5000 N
Maximum Temperature of Liquid	35°C
Start per hour	40 times
Shaft Mounting Standard	Splined as per NEMA standard NEMA Standard
Method of Starting	Single Phase – Capacitor Start Capacitor Run (CSCR) Three Phase – Direct On Line (DOL)
Cable Leadout	Permanently Connected and Sealed ¾ core EPDM rubber Flat Cable

NOMINAL DIAMETER	6" (150 MM)
Maximum outer diameter	143 mm (max)
Power Range	3.7 to 11 kW – Single Phase 3.7 to 45 kW - Three Phase
Speed	2900rpm
Version	Single phase – 208-230V, 50 Hz, A.C. supply Three phase – 380/400/415V, 50 Hz, A.C. supply
Class of Insulation	F
Degree of Protection	IP68
Direction of Rotation	CCW – single Phase Electrically reversible – Three Phase
Type of Duty	1 (continuous)
Maximum Down Thrust Load	3.7 to 22 kW – 15900N 30 to 45 kW – 22700 N
Maximum Temperature of Liquid	3.7 to 30 kW - 35°C 37 to 45 kW - 25°C
Start per hour	20 times
Shaft Mounting Standard	Splined as per NEMA Standard NEMA Standard
Method of Starting	3.7 to 37 kW – Direct On Line (DOL) 37 to 45 kW – Star Delta (S.D.)
Cable Leadout	Permanently Connected and sealed ¾ core EPDM rubber Flat Cable

NOMINAL DIAMETER	8" (200 MM)
Maximum outer diameter	194mm (max)
Power Range	37 to 93 kW – Three Phase
Speed	2900rpm
Version	Three phase – 380/400/415V, 50 Hz, A.C. supply
Class of Insulation	F
Degree of Protection	IP68
Direction of Rotation	Electrically reversible – Three Phase
Type of Duty	1 (continuous)
Maximum Down Thrust Load	10000 lb/45500 N
Maximum Temperature of Liquid	25°C
Start per hour	10 times
Shaft Mounting Standard	Splined as per NEMA Standard NEMA Standard
Method of Starting	Three Phase – Direct On Line (DOL) & Star Delta (S.D.)
Cable Leadout	Permanently Connected and sealed ¾ core EPDM rubber Flat Cable

CATALOGUE NUMBERING FOR PUMPS

The catalogue number is as follows:

LPSXS-XXX/XX-XX

This is made up as follows:

	LPS	X	S	-	XXX	/	XX	-	A	B
Lister Petter Submersible										
Nominal Diameter (inches)										
Stainless Steel										
Nominal Flow (m ³ /h)										
Number of impellers										
First impeller with reduced diameter (A, B or C)										
Second impeller with reduced diameter (A, B or C)										

CATALOGUE NUMBERING FOR SUBMERSIBLE MOTORS

The catalogue number is as follows:

LPXXS-XX-XXX-F

This is made up as follows:

	LP	X	X	X	-	XX	-	X	XX	-	F
Lister Petter motor											
O = Oil Filled W = Water filled											
Nominal Diameter (inches)											
Type of Stainless Steel Construction											
Power kW x 10											
Voltage: 2 = 230V 4 = 415/400/380V											
Phase (s): SP = Single Phase TP = Three Phase											
F (for 50Hz)											

ELECTRIC MOTOR RANGE

4 INCH MOTOR				
Product code	kW	Phase	Height (mm)	Weight (kg)
LPO4S-03-2SP-F	0.37	1 Phase 230V	346	7.3
LPO4S-05-2SP-F	0.55	1 Phase 230V	365	8.2
LPO4S-07-2SP-F	0.75	1 Phase 230V	380	8.8
LPO4S-11-2SP-F	1.1	1 Phase 230V	405	10
LPO4S-15-2SP-F	1.5	1 Phase 230V	440	11.5
LPO4S-22-2SP-F	2.2	1 Phase 230V	495	14
LPO4S-03-2TP-F	0.37	3 Phase 230V	330	6.7
LPO4S-05-2TP-F	0.55	3 Phase 230V	346	7.4
LPO4S-07-2TP-F	0.75	3 Phase 230V	365	8.2
LPO4S-11-2TP-F	1.1	3 Phase 230V	380	8.9
LPO4S-15-2TP-F	1.5	3 Phase 230V	405	10
LPO4S-22-2TP-F	2.2	3 Phase 230V	440	11.6
LPO4S-30-2TP-F	3	3 Phase 230V	516	15.2
LPO4S-40-2TP-F	4	3 Phase 230V	607	23.1
LPO4S-55-2TP-F	5.5	3 Phase 230V	683	27.5
LPO4S-03-4TP-F	0.37	3 Phase 400V	330	6.7
LPO4S-05-4TP-F	0.55	3 Phase 400V	346	7.4
LPO4S-07-4TP-F	0.75	3 Phase 400V	365	8.2
LPO4S-11-4TP-F	1.1	3 Phase 400V	380	8.9
LPO4S-15-4TP-F	1.5	3 Phase 400V	405	10
LPO4S-22-4TP-F	2.2	3 Phase 400V	440	11.6
LPO4S-30-4TP-F	3	3 Phase 400V	516	15.2
LPO4S-40-4TP-F	4	3 Phase 400V	607	19.5
LPO4S-55-4TP-F	5.5	3 Phase 400V	683	23.1
LPO4S-75-4TP-F	7.5	3 Phase 400V	783	27.5

SUBMERSIBLE BOREHOLE PUMPSETS (50HZ) TECHNICAL DATA SHEET

6 INCH MOTOR				
Product code	kW	Phase	Height (mm)	Weight (kg)
LPW6S-37-4TP-F	3.7	3 phase 415/380V	583	43
LPW6S-55-4TP-F	5.5	3 phase 415/380V	630	45
LPW6S-75-4TP-F	7.5	3 phase 415/380V	685	50
LPW6S-110-4TP-F	11	3 phase 415/380V	760	58
LPW6S-150-4TP-F	15	3 phase 415/380V	800	62
LPW6S-185-4TP-F	18.5	3 phase 415/380V	920	73
LPW6S-220-4TP-F	22	3 phase 415/380V	970	80
LPW6S-300-4TP-F	30	3 phase 415/380V	1030	85
LPW6S-370-4TP-F	37	3 phase 415/380V	1060	90

8 INCH MOTOR				
Product code	kW	Phase	Height (mm)	Weight (kg)
LPW8S-370-4TP-F	37	3 phase 415/380V	TBA	TBA
LPW8S-450-4TP-F	45	3 phase 415/380V	TBA	TBA
LPW8S-560-4TP-F	56	3 phase 415/380V	TBA	TBA
LPW8S-750-4TP-F	75	3 phase 415/380V	TBA	TBA
LPW8S-930-4TP-F	93	3 phase 415/380V	TBA	TBA

PUMP (WET END) RANGE

4 INCH DIAMETER PUMP RANGE - PUMP (WET END)										
	4 Inch Range	Nominal Diameter 4", Nominal Flow 1 m³/h, Outlet 1.25" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
33	LPS4S-1/09	9	0.37	4	14	48	1.5	0.3	356	2.9
50	LPS4S-1/14	14	0.37	4	21	76	1.5	0.3	461	3.7
66	LPS4S-1/18	18	0.55	4	27	96	1.5	0.3	545	4.4
73	LPS4S-1/21	22	0.55	4	30	112	1.5	0.3	608	5.0
100	LPS4S-1/28	28	0.75	4	42	153	1.5	0.3	755	6.2
130	LPS4S-1/36	36	1.1	4	54	195	1.5	0.3	946	9.9
150	LPS4S-1/42	42	1.1	4	67	235	1.5	0.3	1072	11.3

4 INCH DIAMETER PUMP RANGE - PUMP (WET END)										
	4 Inch Range	Nominal Diameter 4", Nominal Flow 2 m³/h, Outlet 1.25" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
35	LPS4S-2/09	9	0.37	4	26	48	2.4	0.9	356	3.0
48	LPS4S-2/13	13	0.55	4	38	68	2.4	0.9	440	3.8
67	LPS4S-2/18	18	0.75	4	51	94	2.4	0.9	545	4.7
90	LPS4S-2/23	23	1.1	4	69	124	2.4	0.9	650	5.7
110	LPS4S-2/28	28	1.5	4	86	154	2.4	0.9	755	6.6
130	LPS4S-2/33	33	1.5	4	102	183	2.4	0.9	883	9.7
153	LPS4S-2/40	40	2.2	4	119	218	2.4	0.9	1030	11.5
186	LPS4S-2/48	48	2.2	4	143	261	2.4	0.9	1198	13.5

4 INCH DIAMETER PUMP RANGE - PUMP (WET END)										
	4 Inch Range	Nominal Diameter 4", Nominal Flow 3 m³/h, Outlet 1.25" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
26	LPS4S-3/06	6	0.37	4	14	33	4.2	1.5	293	2.4
38	LPS4S-3/09	9	0.55	4	19	49	4.2	1.5	356	3.0
52	LPS4S-3/12	12	0.75	4	28	66	4.2	1.5	419	3.6
70	LPS4S-3/15	15	1.1	4	40	85	4.2	1.5	482	4.2
81	LPS4S-3/18	18	1.1	4	45	101	4.2	1.5	545	4.7
98	LPS4S-3/22	22	1.5	4	54	127	4.2	1.5	629	5.5
110	LPS4S-3/25	25	1.5	4	60	139	4.2	1.5	692	6.1
127	LPS4S-3/29	29	2.2	4	70	160	4.2	1.5	776	6.8
145	LPS4S-3/33	33	2.2	4	80	183	4.2	1.5	883	9.7
171	LPS4S-3/39	39	3	4	94	219	4.2	1.5	1009	11.2
200	LPS4S-3/45	45	3	4	110	250	4.2	1.5	1135	12.7
230	LPS4S-3/52	52	4	4	123	291	4.2	1.5	1282	14.5

SUBMERSIBLE BOREHOLE PUMPSETS (50HZ) TECHNICAL DATA SHEET

4 Inch Range		Nominal Diameter 4", Nominal Flow 4 m ³ /h, Outlet 1.5" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
18	LPS4S-4/04	4	0.37	4	10	23	6	1.8	251	2.0
28	LPS4S-4/06	6	0.55	4	16	34	6	1.8	293	2.4
38	LPS4S-4/08	8	0.75	4	23	45	6	1.8	335	2.8
58	LPS4S-4/12	12	1.1	4	37	68	6	1.8	419	3.6
80	LPS4S-4/17	17	1.5	4	54	96	6	1.8	524	4.5
98	LPS4S-4/21	21	2.2	4	67	118	6	1.8	608	5.3
116	LPS4S-4/25	25	2.2	4	78	138	6	1.8	692	6.0
152	LPS4S-4/33	33	3	4	105	184	6	1.8	868	9.6
176	LPS4S-4/38	38	4	4	123	212	6	1.8	973	10.9
207	LPS4S-4/44	44	4	4	143	247	6	1.8	1099	12.4

4 Inch Range		Nominal Diameter 4", Nominal Flow 8 m ³ /h, Outlet 2" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
20	LPS4S-8/05	5	0.75	4	12	28	10.8	2.4	412	4.3
29	LPS4S-8/07	7	1.1	4	17	38	10.8	2.4	496	5.3
40	LPS4S-8/10	10	1.5	4	25	54	10.8	2.4	622	6.8
48	LPS4S-8/12	12	2.2	4	31	65	10.8	2.4	706	7.8
60	LPS4S-8/15	15	2.2	4	38	80	10.8	2.4	832	9.3
75	LPS4S-8/18	18	3	4	47	98	10.8	2.4	958	10.8
87	LPS4S-8/21	21	4	4	55	114	10.8	2.4	1084	12.3
102	LPS4S-8/25	25	4	4	64	133	10.8	2.4	1252	14.3
125	LPS4S-8/30	30	5.5	4	79	163	10.8	2.4	1462	16.8
150	LPS4S-8/37	37	5.5	4	93	199	10.8	2.4	1753	20.3

4 Inch Range		Nominal Diameter 4", Nominal Flow 12 m ³ /h, Outlet 2" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
27	LPS4S-12/05	5	1.5	4	16	32	18	6	505	5.0
37	LPS4S-12/07	7	2.2	4	20	44	18	6	635	6.3
52	LPS4S-12/10	10	3	4	29	62	18	6	830	8.2
68	LPS4S-12/13	13	4	4	38	80	18	6	1025	10.2
93	LPS4S-12/18	18	5.5	4	54	111	18	6	1350	13.4
128	LPS4S-12/25	25	5.5	4	75	154	18	6	1805	17.8

6 INCH DIAMETER PUMP RANGE - PUMP (WET END)

Nominal Head (m)	6 Inch Range									
	Nominal Diameter 6", Nominal Flow 16 m ³ /h, Outlet 3" NPT									
	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
8	LPS6S-16/01	1	0.55	4	4	12	23	3	343	5.0
17	LPS6S-16/02	2	1.1	4	9	22	23	3	403	6.4
32	LPS6S-16/04	4	2.2	4	18	43	23	3	524	9.3
40	LPS6S-16/05	5	3	4	22	53	23	3	585	10.8
48	LPS6S-16/06	6	3.7	4	27	64	23	3	645	12.2
57	LPS6S-16/07	7	4	4	32	75	23	3	706	13.7
83	LPS6S-16/10	10	5.5	4 or 6	48	108	23	3	887	18.0
106	LPS6S-16/13	13	7.5	6	60	141	23	3	1069	22.4
140	LPS6S-16/17	17	9.3	6	80	184	23	3	1311	28.2
165	LPS6S-16/20	20	11	6	95	216	23	3	1492	32.5
181	LPS6S-16/22	22	13	6	105	239	23	3	1613	35.4
197	LPS6S-16/24	24	13	6	115	260	23	3	1734	38.3
221	LPS6S-16/27	27	15	6	128	291	23	3	1916	42.7
239	LPS6S-16/29	29	18.5	6	138	314	23	3	2037	15.6
255	LPS6S-16/31	31	18.5	6	148	335	23	3	2158	48.5
370	LPS6S-16/33	33	18.5	6	157	355	23	3	2279	51.4
298	LPS6S-16/36	36	22	6	170	390	23	3	2460	55.7
312	LPS6S-16/38	38	22	6	180	410	23	3	2581	58.6
329	LPS6S-16/40	40	22	6	190	433	23	3	2702	61.5

Nominal Head (m)	6 Inch Range									
	Nominal Diameter 6", Nominal Flow 27 m ³ /h, Outlet 3" NPT									
	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
16	LPS6S-27/02	2	2.2	4	6	23	42	6	462	8.4
24	LPS6S-27/03	3	3	4	11	33	42	6	558	10.1
31	LPS6S-27/04	4	3.7	4 or 6	15	43	42	6	654	11.8
49	LPS6S-27/06	6	5.5	4 or 6	25	67	42	6	846	15.2
64	LPS6S-27/08	8	7.5	4 or 6	31	88	42	6	1038	18.6
90	LPS6S-27/11	11	11	6	47	122	42	6	1326	23.6
105	LPS6S-27/13	13	11	6	55	143	42	6	1518	27.0
124	LPS6S-27/15	15	15	6	65	168	42	6	1710	30.4
138	LPS6S-27/17	17	15	6	71	188	42	6	1902	33.8
150	LPS6S-27/19	19	18.5	6	77	208	42	6	2094	37.2
163	LPS6S-27/21	21	18.5	6	80	230	42	6	2286	40.6
190	LPS6S-27/24	24	22	6	93	258	42	6	2574	45.6
211	LPS6S-27/26	26	22	6	100	287	42	6	2766	49.0
240	LPS6S-27/29	29	26	6	113	319	42	6	3054	54.1
261	LPS6S-27/32	32	30	6	130	353	42	6	3342	59.2
290	LPS6S-27/35	35	30	6	148	382	42	6	3630	64.3

SUBMERSIBLE BOREHOLE PUMPSETS (50HZ) TECHNICAL DATA SHEET

		6 Inch Range								
		Nominal Diameter 6", Nominal Flow 48 m³/h, Outlet 3" or 4" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
17	LPS6S-45/02	2	3	4	9	24	60	12	496	9.2
25	LPS6S-45/03	3	5.5	4 or 6	14	40	60	12	609	11.5
42	LPS6S-45/05	5	7.5	4 or 6	24	65	60	12	835	16.0
60	LPS6S-45/07	7	11	4 or 6	37	94	60	12	1061	20.6
86	LPS6S-45/10	10	15	6	53	133	60	12	1400	27.4
105	LPS6S-45/12	12	18.5	6	64	158	60	12	1626	32.0
131	LPS6S-45/15	15	22	6	81	200	60	12	1965	38.8
150	LPS6S-45/17	17	26	6	96	227	60	12	2191	43.4
170	LPS6S-45/19	19	60	6	107	254	60	12	2417	47.9
192	LPS6S-45/22	22	37	6	123	294	60	12	2756	54.8
210	LPS6S-45/24	24	37	6	140	325	60	12	2982	59.3

		6 Inch Range								
		Nominal Diameter 6", Nominal Flow 60 m³/h, Outlet 3" or 4" NPT								
Nominal Head (m)	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
13	LPS6S-60/02	2	4	4 or 6	5	26	78	18	496	9.2
21	LPS6S-60/03	3	5.5	4 or 6	10	40	78	18	609	11.5
29	LPS6S-60/04	4	7.5	4 or 6	14	53	78	18	722	13.7
38	LPS6S-60/05	5	9.3	6	19	67	78	18	835	16.0
44	LPS6S-60/06	6	11	6	23	79	78	18	948	18.3
54	LPS6S-60/07	7	13	6	29	94	78	18	1061	20.6
60	LPS6S-60/08	8	15	6	33	106	78	18	1174	22.9
69	LPS6S-60/09	9	18.5	6	38	122	78	18	1287	25.1
78	LPS6S-60/10	10	18.5	6	45	135	78	18	1400	27.4
86	LPS6S-60/11	11	22	6	49	148	78	18	1513	29.7
94	LPS6S-60/12	12	22	6	53	162	78	18	1626	32.0
100	LPS6S-60/13	13	26	6	57	173	78	18	1739	34.3
110	LPS6S-60/14	14	26	6	63	188	78	18	1852	36.5
116	LPS6S-60/15	15	26	6	67	203	78	18	1965	38.8
123	LPS6S-60/16	16	30	6	72	216	78	18	2078	41.1
131	LPS6S-60/17	17	37	6	78	230	78	18	2191	43.4
140	LPS6S-60/18	18	37	6	83	243	78	18	2304	45.7
152	LPS6S-60/20	20	37	6	90	267	78	18	2530	50.2

8 INCH DIAMETER PUMP RANGE - PUMP (WET END)

Nominal Head (m)	8 Inch Range		Nominal Diameter 8", Nominal Flow 75 m ³ /h, Outlet 5" NPT							
	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
13	LPS8S-75/01	1	5.5	6	7	20	102	12	618	25.1
17	LPS8S-75/02-B	2	5.5	6	6	33	102	12	746	28.7
24	LPS8S-75/02	2	7.5	6	13	38	102	12	746	28.7
30	LPS8S-75/03-B	3	9.3	6	13	53	102	12	874	32.3
36	LPS8S-75/03	3	11	6	20	58	102	12	874	32.3
42	LPS8S-75/04-B	4	13	6	20	72	102	12	1003	35.9
48	LPS8S-75/04	4	15	6	27	77	102	12	1003	35.9
60	LPS8S-75/05	5	18.5	6	33	96	102	12	1131	39.5
72	LPS8S-75/06	6	22	6	40	116	102	12	1259	43.0
84	LPS8S-75/07	7	26	6	47	136	102	12	1387	46.6
90	LPS8S-75/08-B	8	26	6	47	147	102	12	1515	50.2
96	LPS8S-75/08	8	30	6	53	153	102	12	1515	50.2
118	LPS8S-75/09	9	30	6	58	171	102	12	1644	53.8
121	LPS8S-75/10	10	37	8	68	193	102	12	1772	57.4
132	LPS8S-75/11	11	37	8	74	211	102	12	1900	61.0
160	LPS8S-75/12	12	45	8	99	244	102	12	2039	66.0
171	LPS8S-75/13	13	55	8	107	263	102	12	2168	69.6
198	LPS8S-75/15	15	55	8	120	302	102	12	2424	76.8
210	LPS8S-75/16	16	63	8	132	322	102	12	2552	80.4
238	LPS8S-75/18	18	63	8	147	365	102	12	2809	87.6
261	LPS8S-75/20	20	75	8	159	402	102	12	3065	94.8

Nominal Head (m)	8 Inch Range		Nominal Diameter 8", Nominal Flow 90 m ³ /h, Outlet 5" NPT							
	Product code	Stages	kW	Motor Dia (inches)	Head min. (m)	Head max. (m)	Flow max. (m ³ /h)	Flow min. (m ³ /h)	Height (mm)	Weight (kg)
12	LPS8S-90/01	1	5.5	6	8	21	120	18	618	25.1
13	LPS8S-90/02-BB	2	5.5	6	0	27	120	18	746	28.7
19	LPS8S-90/02-A	2	7.5	6	8	34	120	18	746	28.7
25	LPS8S-90/02	2	9.3	6	15	41	120	18	746	28.7
26	LPS8S-90/03-BB	3	9.3	6	8	48	120	18	874	32.3
30	LPS8S-90/03-B	3	11	6	15	54	120	18	874	32.3
47	LPS8S-90/03	3	13	6	23	62	120	18	874	32.3
43	LPS8S-90/04-B	4	15	6	22	74	120	18	1003	35.9
50	LPS8S-90/04	4	18.5	6	30	82	120	18	1003	35.9
51	LPS8S-90/05-AB	5	18.5	6	25	89	120	18	1131	39.5
63	LPS8S-90/05	5	22	6	38	102	120	18	1131	39.5
75	LPS8S-90/06	6	26	6	46	123	120	18	1259	43.0
88	LPS8S-90/07	7	30	6	53	143	120	18	1387	46.6
100	LPS8S-90/08	8	37	8	62	164	120	18	1515	50.2
112	LPS8S-90/09	9	37	8	68	182	120	18	1644	53.8
132	LPS8S-90/10	10	45	8	82	206	120	18	1783	58.8
145	LPS8S-90/11	11	55	8	90	230	120	18	1911	62.4
159	LPS8S-90/12	12	55	8	99	250	120	18	2039	66.0
170	LPS8S-90/13	13	55	8	106	268	120	18	2168	69.6
185	LPS8S-90/14	14	63	8	116	291	120	18	2296	73.2
200	LPS8S-90/15	15	75	8	126	312	120	18	2424	76.7
225	LPS8S-90/17	17	75	8	140	350	120	18	2680	84.0
240	LPS8S-90/18	18	93	8	150	372	120	18	2809	87.6
266	LPS8S-90/20	20	93	8	166	412	120	18	3065	94.8

QUICK SELECTION TABLE

Pump (Nominal Diameter)	4" (100mm)	6" (150mm)	8" (200mm)	
Power range	0.25-7.5 kW	1.1-45 kW	5.5-93 kW	
Speed	2850rpm	2900rpm	2900rpm	
Discharge Range	m ³ /h	0.3-18	3-78	12-120
Total head Range	m	10-291	1-433	6-412
Outlet size in inches (NPT)	1 ¼, 1 ½ & 2	3 & 4	5	

MATERIAL OF CONSTRUCTION

	4" – Standard	6" – Standard	8" – Standard
Shaft Seal	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)	Nitrile Rubber (NBR)
Suction Interconnector	S.S. 304	S.S. 304	S.S. 304
Shaft	S.S. 341	S.S. 341	S.S. 341
Impeller	S.S. 304	S.S. 304	S.S. 304
Diffuser	S.S. 304	S.S. 304	S.S. 304
Valve Seat	NBR	NBR	NBR

UK

LISTER PETTER LIMITED
 Long Street, Dursley, Gloucestershire, GL11 4HS, England
 TEL: +44 (0)1453 544141; FAX: +44 (0)1453 546732
 E-mail: sales@lister-petter.co.uk
 www.lister-petter.co.uk

UAE

LISTER PETTER FZE
 Dubai Silicon Oasis Headquarters,
 PO Box 341077, Dubai, UAE
 TEL: +971 4 372 4331; FAX: +971 4 372 4318
 E-mail: sales@listerpettergroup.com
 www.lister-petter.co.uk

DISTRIBUTOR'S ADDRESS

Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.