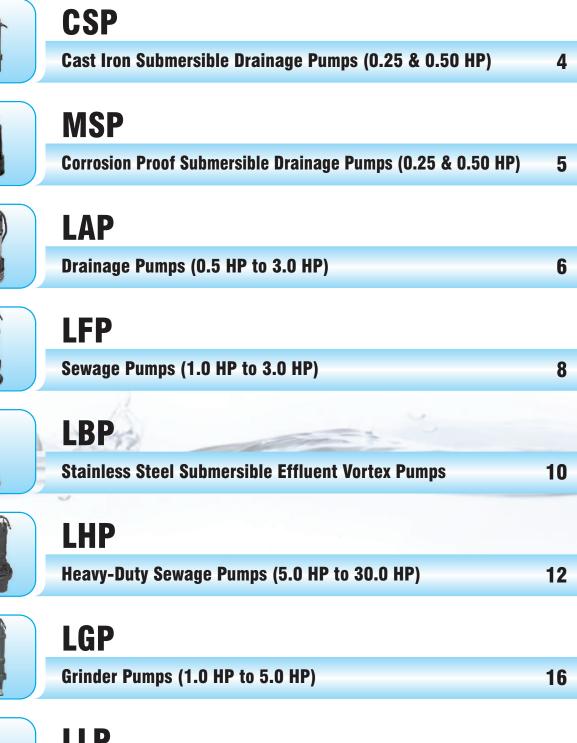
CONTENTS









LLP

Large Volume Water Pumps (3.0 HP to 15.0 HP) 18



LAS

Heavy-Duty Construction Drainage Pumps (1.5 HP to 15.0 HP)

20

CSP Cast Iron

Submersible Drainage Pump



Submersible drainage pump with Vertical float switch

Performance Range

- → Flow rate up to 11300 l/h (11.3 m³/h)
- Dynamic head up to 11 m.

Applications

- For clean water containing solids up to 10 mm grain size.
- As a sump pump for household applications.
- For draining flooded rooms or tanks.
- Extractions of water from ponds, flowing water or pits for collection of rain water.

Features

- Rugged cast iron pump housing, impeller, and motor casing.
- 230V thermally protected energy efficient motor.
- Oil filled motor for better heat dissapation.
- Permanently lubricated ball bearings.
- Extra long 4.6 mtrs. (15 feet) grounded power cord.
- → 1½" BSP Discharge pipe size.
- Stainless steel shaft
- Stainless steel fasteners.
- ▶ Provide with 1½" flexible hose connection and clamp.
- Available with Sic/Sic mechanical shaft seal for pumping sandy water (optional).

Operating Conditions

- → Ambient temperature : Max. +50°C
- → Liquid temperature : 0°C to +50°C
- Max. Starts per hour : 30 at regular intervals.
- Duty Rating:
 - S1 When pump is completely submerged.
 - S3 When pump is partially submerged.

Model Designation

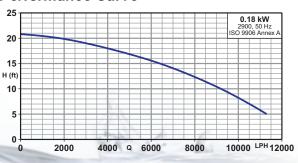
Γ	Automatic submersible	Models available						
L	drainage pump with	0.18 kW	0.37 kW					
	* Wide Angle Float Switch	CSP521T	CSP551T					
Γ	* Vertical Float Switch	CSP521	CSP551					

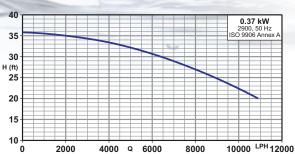
Performance Table



Submersible drainage pump with Wide angle float switch

Performance Curve





Minimum sump pit diameter

Мос	lel	Minimum Sump Pit Dia. (mm)
CSP521	CSP551	305
CSP521T	*	381
*	CSP551T	406

Motor Specifications

230 V, 50 Hz, 1 Phase, 2850 RPM Oil Filled; Thermally Protected

Direction of Rotation

Clockwise as seen from the motor rear end.

		m³/h 1 2 4 6 8 10 11		11	Max. Lift	Max. Solid			ns & Weight I								
Model	kW	HP	Amp									(no flow)	Passage	Major	Height	Gross	Volume
				l/h	1000	2000	4000	6000	8000	10000	11000	, ,	Size (mm)	Width (mm)		Weight (kg.)	(m³)
CSP521	0.40	0.05	0.0		0.0	0.4		4.7	0.7	0.5	4.7	0.4	40	000	044	40.5	0.000
CSP521T	0.18	0.25	2.0	H (m)	6.2	6.1	5.5	4.7	3.7	2.5	1.7	6.4	10	229	241	13.5	0.023
CSP551	0.27	0.50	2.0	П (III)	10.0	10.7	10.1	0.4	0.2	6.8		11	10	254	254	10.0	0.000
CSP551T	0.37	0.50	3.0		10.8	10.7	10.1	9.4	8.2	0.8	_	''	10	204	234	18.0	0.028

Note: The above shown performance is nominal performance and may vary from pump to pump.

MSP Corrosion Proof

Submersible Drainage Pump



Submersible drainage pump with Vertical float switch

Performance Range

- → Flow rate up to 20900 l/h (20.9 m³/h)
- Dynamic head up to 13 m.

Applications

- For clean water containing solids up to 10 mm grain size.
- As a sump pump for household applications.
- For draining flooded rooms or tanks.
- Extractions of water from ponds, flowing water or
- pits for collection of rain water.

Features

- Corrosion resistant composite construction.
- 230V thermally protected energy efficient motor.
- Oil filled motor for better heat dissapation.
- Permanently lubricated ball bearings.
- Extra long 4.6 mtrs. (15 feet) grounded power cord.
- → 1½" Discharge pipe size.
- → Stainless steel shaft
- Stainless steel fasteners.
- ▶ Provide with 1½" flexible hose connection and clamp.
- Available with Sic/Sic mechanical shaft seal for pumping sandy water (optional).

Operating Conditions

- Ambient temperature : Max. +45°C
- → Liquid temperature : +5°C to +45°C
- Max. Starts per hour : 30 at regular intervals.
- Duty Rating:
 - S1 When pump is completely submerged.
 - S3 When pump is partially submerged.

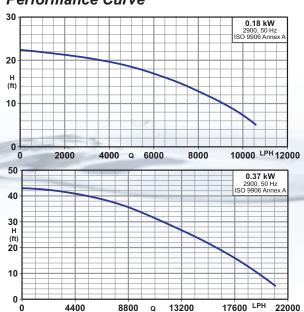
Model Designation

Automatic submersible	Models available						
drainage pump with	0.18 kW	0.37 kW					
* Wide Angle Float Switch	MSP521T	MSP551T					
* Vertical Float Switch	MSP521	MSP551					

nersible drainage p

Submersible drainage pump with Wide angle float switch

Performance Curve



Minimum sump pit diameter

Mod	lel	Minimum Sump Pit Dia. (mm)
MSP521	MSP551	330
MSP521T	*	381
*	MSP551T	432

Motor Specifications

230 V, 50 Hz, 1 Phase, 2850 RPM (syn.) Oil Filled; Thermally Protected

Direction of Rotation

Clockwise as seen from the motor rear end.

Performance Table

				m³/h	2	4	6	8	10	12	14	16	18	20	Max. Lift	Max. Solid	D	imensio	ns & Weight	Data
Model	kW	HP	Amp			· ·		-							(no flow)	Passage	Major	Height	Gross	Volume
				l/h	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	`(mtrs) ´	Size (mm)	Width (mm)	(mm)	Weight (kg.)	(m³)
MSP521	0.18	0.25	2.0		6.5	5.9	5.2	3.9	2.2						6.8	10	241	241	8.0	0.022
MSP521T	0.10	0.25		H (m)		5.9	5.2	3.9	2.2	-	-	-	-	-	0.0	10	241	241	0.0	0.022
MSP551	0.37	0.50		П (III)	12.9	12.5	12	11.2	10.2	8.9	7.7	6.1	4.5	2.5	12	10	267	267	9.0	0.028
MSP551T	0.37	0.50	3.0		12.9	12.5	12	11.2	10.2	0.9	1.1	0.1	4.5	2.5	13	10	207	207	9.0	0.028

Note: The above shown performance is nominal performance and may vary from pump to pump.



Drainage Pumps (0.5 HP to 3.0 HP)

Performance Range

- Flow rate up to 1000 l/min. (60 m³/h)
- Dynamic head up to 29 m.

Applications

- Slushy water, waste water without solids, sump drainage.
- Drainage application, flood control.
- Dewatering for fish pond or basement.

Features

- New design for light weight, elegant shape with best quality.
- Unfastening the bolts between the oil casing and the upper pump casing allows the body to be separated for easy maintenance.
- All pumps are furnished with double mechanical seal. All pumps up to 0.75 kW have carbon/ceramic sealing faces at both water end and motor end. All pumps starting with 1.5 kW and above have Sic sealing faces at the water end and carbon/ceramic sealing faces at the motor end.
- Available with Sic/Sic mechanical Shaft seal for pumping sandy water for 0.75 kW (optional).

Special Features on Request

- Other voltages.
- Available in 60Hz.

Direction of Rotation

Clockwise as seen from the motor rear end

Thermal overload protector

Equipped with Automatic reset motor protector, prevents motor from burning due to high temperature/phase failure/ voltage drop and lock impeller.



Cable base

Epoxy resin seal cable base to prevent water intrusion into motor through the cable wire.



U Type Impeller

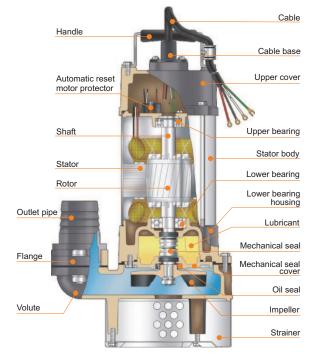
This impeller can generate rapid rotating vortex to handle fluid mixed with long fiber, the majority of abrasive solids do not touch impeller to minimize impeller wear.



Float Switch

Excellent quality float switch Provided with epoxy resin sealed connector.





Motor

- 2 pole dry submersible motor
- → 50Hz (n = 2900 RPM)
- Single phase : 230V +5 15 %
- Three phase : 400V +5 -15 %
- Protection IP 68
- Insulation class : F

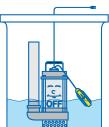
Operating Conditions

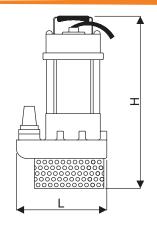
- Ambient temperature : Max. +50°C
- → Liquid temperature : 0°C to +50°C
- Max. Starts per hour: 30 at regular intervals.
- Duty Rating :
 - S1 When pump is completely submerged.
 - S3 When pump is partially submerged.

Float Switch Pump

- The pumps are equipped with wide angle on/off level control float switch for easy and simple automatic operation.
- Applications : Slushy water, dewatering, drainage application.
- Type: 0.37 1.5 kW Single-phase pumps. 0.37 - 0.75 kW Three-phase pumps.



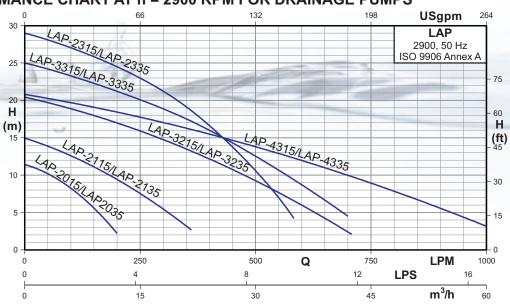






Мо	del	Disc.		ensions	(mm)	Solid	Net	Gross	Volume
Single Phase	Three Phase	mm (inch)	Length	Width	Height	Passage (mm)	Weight(kg.)	Weight(kg.)	(m³)
LAP-2015/2015F	-	50 (2")	230	161	365	8	15.0	17.0	0.032
-	LAP-2035/2035F	30 (2)	230	161	365		15.0	17.0	0.032
LAP-2115/2115F	-	50 (2")	277	178	440	10	19.0	21.0	0.045
-	LAP-2135/2135F] 30 (2)	277	178	440	10	18.0	20.0	0.045
LAP-3215/3215F	-	80 (3")	412	208	569	11	44.0	69.0	0.146
-	LAP-3235/3235F	00 (3)	412 208 470		40.0	65.0	0.146		
LAP-2315/2315F	-	50 (2")	280	216	572	11	46.0	70.0	0.146
-	LAP-2335/2335F	30 (2)	280	216	493	''	43.0	66.0	0.146
LAP-3315/3315F	-	80 (3")	385	216	575	11	47.0	71.0	0.146
-	LAP-3335/3335F	00 (3)	385	216	495	11	43.0	67.0	0.146
LAP-4315/4315F	-	100 (4")	390	208	584	11	47.0	72.0	0.146
-	LAP-4335/4335F	100 (4)	390	208	495	11	43.0	68.0	0.146

PERFORMANCE CHART AT n = 2900 RPM FOR DRAINAGE PUMPS



PERFORMANCE DATA AT n = 2900 RPM

Мо	del	Power		Start	m³/h	6	9	12	18	24	30	36	45	54
Single Phase	Three Phase	kW	HP	Method	l/min.	100	150	200	300	400	500	600	750	900
LAP-2015/2015F	-	0.37	0.5	Capacitor		8.3	5.5	2.2	_	_	_	_	_	_
-	LAP-2035/2035F	0.57	0.5	Direct		0.5	0.0	2.2	_	_	_	_	_	_
LAP-2115/2115F	-	0.75	1.0	Capacitor		12.5	11	9.4	5.5	_	_	_	_	_
-	LAP-2135/2135F	0.75	1.0	Direct		12.0	'''	0.4	0.0					
LAP-3215/3215F	-	1.50	2.0	Capacitor		19.9	18	17	14.8	12.2	9.2	6	_	_
-	LAP-3235/3235F	1.50	2.0	Direct	H (m)	15.5	10	''	14.0	12.2	5.2	U	_	_
LAP-2315/2315F	-	2.20	3.0	Capacitor	11 (111)	27	26	24.5	21.2	16.6	10.5	_	_	_
-	LAP-2335/2335F	2.20	3.0	Direct			20	24.5	21.2	10.0	10.5	_	_	_
LAP-3315/3315F	-	2.20	3.0	Capacitor		23.3	22.3	21.2	18.9	16	12.5	9	_	_
-	LAP-3335/3335F	2.20	3.0	Direct		20.0	22.0	21.2	10.5	10	12.0	3	_	_
LAP-4315/4315F	-	2.20	3.0	Capacitor		19.7	19	18.4	17	15.5	13.8	12	9	5.5
-	LAP-4335/4335F	2.20	3.0	Direct		10.7	10	10.4	.,	10.0	10.0	12)	0.0

Note: Subscript "F" pumps will be provided with a float switch.



Sewage Pumps (1.0 HP to 3.0 HP)

Performance Range

- Flow rate up to 1000 l/min. (60 m³/h)
- Dynamic head up to 20 m.

Applications

- Drainage of sewage from the building basements, hotel industry, waste water from factories.
- Drainage of sewage from industrial process factories.
- Emptying fo septic tanks, cesspits and sewage pump stations.
- Pumping surface and drainage water from garages and sprinkler systems.

Features

- A precision manufactured motor is achieved utilizing a laminated sheet steel production process combined with the highest standard of quality control. The stator and wiring is impregnated with varnish and then heat dried in an industrial oven. This ensures a 100% quality manufactured motor with stable characteristics and a high efficiency.
- Standard accessories include: VCT cable with an epoxy resin sealed stainless steel cable base, AC thermal motor protector, dual mechanical seal and lip seal.

Special Features on Request

Other voltages, Available in 60Hz.

Direction of Rotation

Clockwise as seen from the motor rear end.

Thermal overload protector

Equipped with Automatic reset motor protector, prevents motor from burning due to high temperature/phase failure/ voltage drop and lock impeller.



Cable base

Epoxy resin seal cable base to prevent water intrusion into motor through the cable wire.



P Type Impeller

Semi-open impeller cutting foreign particles, and preventing clog by solid media.

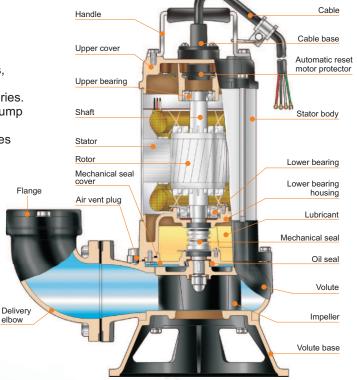


U Type Impeller

This 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 wear.

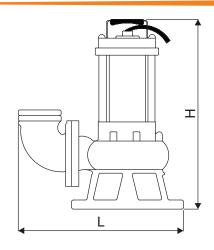






Specification

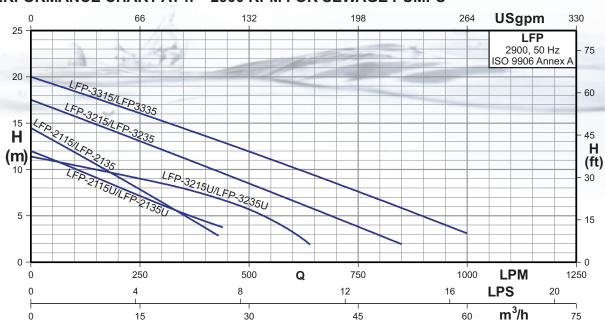
Spe	:CI	IIC	alion	Land Land						
	Dian	nete	r(mm)	50 - 80						
	Α	mbi	ent temp	Max. +50°C						
ing		Liqu	id temp	0°C to +50°C						
Pumping liquid	L	iquio	d nature	Suitable for sewage waste water (with or without solids) from septic tanks, building basements and waste water form factories.						
	Max. depth		. depth	18.5M						
4	ıre		mpe ll er	Semi - open						
	Impeller M.seal Bearing		M.seal	Double Mechanical seal						
	ਲੋਂ Bearing		Bearing	Ball type bearing						
	_ Impeller			Grey Iron						
шр	Volute Upper cover		Volute	Grey Iron						
Pump	∕lat	Up	per cover	Grey Iron						
	_	Vo	lute base	Grey Iron						
	g	Mo	tor side	Carbon v/s Ceramic (0.75 - 2.2 kW)						
	M sea	Pur	mp side	Carbon v/s Ceramic (0.75 kW) Silicon Carbide v/s Silicon Carbide (1.5 - 2.2 kW)						
		Insu	ulation	F Class						
		Fred	quency	50 Hz						
tor	The	rma	I Protector	Automatic reset motor protector						
Motor		. :	Stator body	S.S. AISI 304						
	Materia		Shaft	S.S. AISI 410						
	≥ Cable		Cable	Thermoplastic Rubber						
Protection			ion	IP 68						
Duty			′	S1 - When pump is completely submerged.S3 - When pump is partially submerged.						
Voltage			је	1 Ph. 230 V +5%/-15%, 3 Ph. 400 V +5%/-15						





Мо	Model			Dime	nsions	(mm)	Solid Passage	Net	Gross	Volume
Single Phase	Three Phase	mm (Inch)	Type	Length	Width	Height	(mm)	Weight (kg.)	Weight (kg.)	(m³)
LFP-2115/2115F	-	FO (2!!)	1	304	235	475	23	21.0	23.0	0.072
-	LFP-2135/2135F	50 (2")	Р	304	235	475	23	20.0	22.0	0.072
LFP-2115U/2115UF	-	EO (O!!)		265	192	455	35	21.0	23.0	0.072
-	LFP-2135U/2135UF	50 (2")	U	265	192	455	33	20.0	22.0	0.072
LFP-3215/3215F	-	00 (211)	Р	432	260	600	32	44.0	71.0	0.179
-	LFP-3235/3235F	80 (3")		432	260	505	32	40.0	67.0	0.179
LFP-3315/3315F	-	00 (011)		432	260	620	35	48.0	73.0	0.179
-	LFP-3335/3335F	80 (3")	Р	432	260	530	35	43.0	69.0	0.179
LFP-3215U/3215UF	-	00 (011)		408	258	610	15	44.0	71.0	0.179
-	LFP-3235U/3235UF	80 (3")	U	408	258	530	15	40.0	67.0	0.179

PERFORMANCE CHART AT n = 2900 RPM FOR SEWAGE PUMPS



PERFORMANCE DATA AT n = 2900 RPM

Mo	del	Power		Start	m³/h	3	6	12	18	24	36	48	60
Single Phase	Three Phase	kW	HP	Method	l/min.	50	100	200	300	400	600	800	1000
LFP-2115/2115F		0.75	1.0	Capacitor		13.2	12	9.2	6.5	3.7	_	_	
-	LFP-2135/2135F	0.73	1.0	Direct		13.2	12	9.2	0.0	3.7	-	_	_
LFP-2115U/2115UF	•	0.75	1.0	Capacitor		11	10.2	8.1	6.3	4.4			_
-	LFP-2135U/2135UF	0.75		Direct			10.2	0.1	0.5	4.4	-	-	_
LFP-3215/3215F	•	1.50	2.0	Capacitor	H (m)	16.6	15.8	14	12.1	10.3	6.5	2.9	_
-	LFP-3235/3235F	1.50	2.0	Direct		10.0	13.0	14	12.1	10.5	0.5	2.5	_
LFP-3315/3315F	•	2.20	3.0	Capacitor		19.3	18.5	16.9	15.3	13.6	10.3	6.7	3.2
-	LFP-3335/3335F	2.20	3.0	Direct		19.5	10.5	10.5	10.0	13.0	10.5	0.7	5.2
LFP-3215U/3215UF	-	1.50	2.0	Capacitor		10.9	10.5	9.5	8.5	7.3	3.2	_	_
-	LFP-3235U/3235UF	1.50	2.0	Direct		10.9	10.5	9.5	0.5	7.3	5.2	_	-

Note: Subscript "F" pumps will be provided with a float switch.



Stainless Steel Submersible Effluent Vortex Pumps

Performance Range

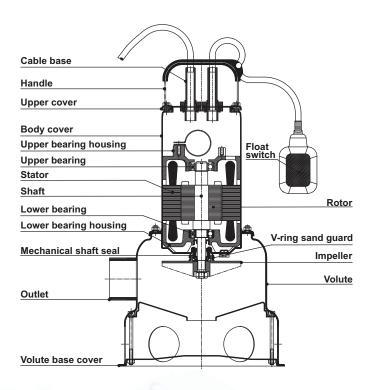
- Flow rate up to 387 l/min. (23 m³/h)
- Dynamic head up to 9 m.

Applications

- All applications of pumping and draining effluent, civil and industrial sewage with suspended solids.
- Pumping stations with one or more pumps for civil and industrial plants.

Features

- Light weight, portable.
- Made out of stainless steel AISI 304 sheet metal.
- High quality mechanical shaft seal.
- Class-F motor insulation which can handle higher motor temperature.
- Thermally protected motors which prevents motor from burn out.
- Vortex impeller designs to handle solids laden sewage and/or fibrous substance.
- A fully waterproof IP 68 structure, combined with a high grade silicon carbide mechanical seal.
- Permanently lubricated ball bearings.
- Solid passage size up to 40 mm.



Vortex Impeller



Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller.

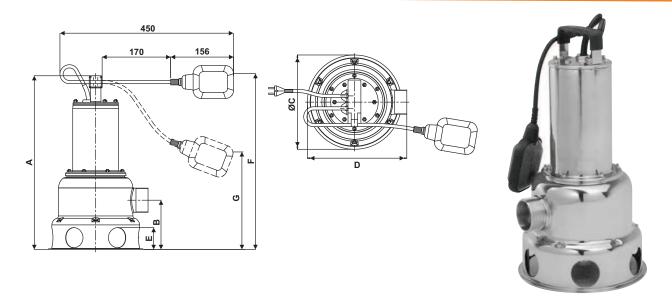
Specification

<u>D</u>	Α	mbient temp	Max. +50°C		
pi did		Liquid temp	0°C to +50°C		
Pumping liquid	L	iquid nature	Pumps are suitable for drainage waste or sump drainage water with or without solids.		
	nre	Impeller	Vortex		
	Structure	M.seal	Mechanical seal		
Pump	Str	Bearing	Ball type bearing		
Pu	E	Impeller	S.S. AISI 304		
	eris	Volute	S.S. AISI 304		
	Volute Upper cover		S.S. AISI 304		
	_	M.seal	Sic/Sic		
		Type	Dry motor		
		Insulation	F Class		
Motor		Frequency	50 Hz		
≥	<u></u>	Stator body	S.S. AISI 304		
	4	Shaft	S.S AISI 410		
	Stator body Cable		Thermoplastic Rubber		
	Pro	tection	IP 68		
		Duty	S1 - When pump is completely submerged S3 - When pump is partially submerged		
	Voltage 1 Ph. 230 V +5/-15%				

Direction of Rotation

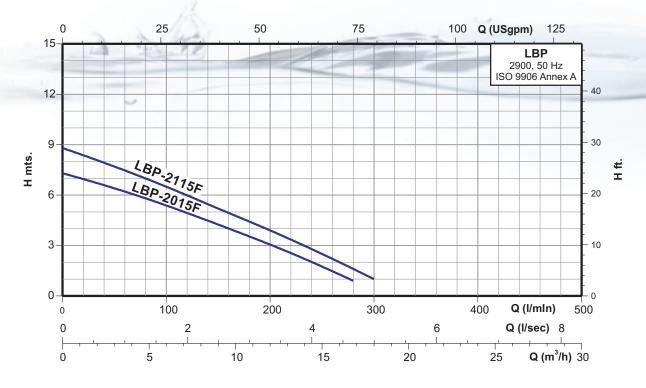
Clockwise as seen from the motor rear end.





Model	Disc.			Dime	ensions	(mm)			Net Weight	Gross Weight	Volume
Wodei	mm (Inch)	Α	В	С	D	Е	F	G	(kg.)	(kg.)	(m³)
LBP 2015F	50 (2")	430	123	235	241	55	550	290	9.5	11.8	0.045
LBP 2115F	50 (2")	430	123	235	241	55	550	290	9.5	11.8	0.045

PERFORMANCE CHART AT n = 2900 RPM FOR SS SUBMERSIBLE EFFLUENT VORTEX PUMPS



PERFORMANCE DATA AT n = 2900 RPM

MODEL	POV	VER	START	m³/h	3	6	9	12	15	18
MODEL	kW	HP	METHOD	l/min	50	100	150	200	250	300
LBP 2015F	0.37	0.5	Capacitor	Н	6.4	5.4	4.3	3.1	1.7	-
LBP 2115F	0.75	1.0	Capacitor	(m)	7.6	6.5	5.3	3.9	2.5	1



Heavy-Duty Sewage Pumps (5.0 HP to 30.0 HP)

Performance Range

- Flow rate up to 8000 l/min. (480 m³/h)
- Dynamic head up to 40 m.

Applications

- Drainage of waste water from the liberation tank, purifying tank and sewage tank in water treatment plant.
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Sewage management, accumulated water, septic tank, stock farm.
- Pumping sewage from single and multi family dwellings.
- Pumping sewage from hotels, restaurants, schools and public buildings.

Features

- International standard design: VCT cable, thermal overload protector, silicon carbide mechanical seal, high grade cast iron, good quality and performance.
- P / E Multiple impeller designs to handle solids laden sewage and/or fibrous substance.
- For Extra protection, an oil seal ring has been installed under the oil chamber. This lip seal helps prevent the ingress of silt and sand into the lower seal chamber.
- Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.
- Full range offering low to high head and flow capabilities, with compact and easy installation. Also available with Guide Rail System, which allows automatic remote connection and disconnection without entering the pit.
- A water detector arrangement is provided in the seal chamber. In case of seal failure if water enters the seal chamber, a signal can be sent to the control panel so that the pump operator is made aware of a potential seal leakage problem.

Direction of Rotation

Clockwise as seen from the motor rear end.

Thermal overload protector

Equipped with Automatic reset motor protector, prevents motor from burning due to high temperature/phase failure/voltage drop and lock impeller.



Cable base

Epoxy resin seal cable base to prevent water intrusion into motor through the cable wire.



P Type Impeller

Semi-open impeller enable cutting of delicate materials to prevent clogging.



E Type Impeller

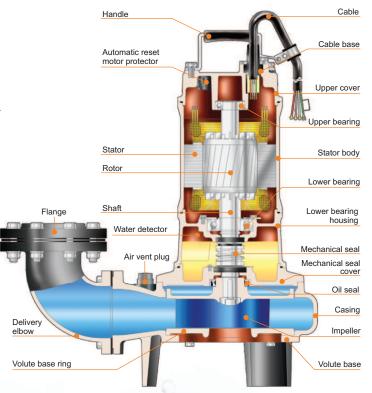
Single channel non-clog impeller, allows large solids passage preventing clogging and allowing effective drainage/dewatering for higher head applications with solids laden media. (7.5 kW to 22 kW)



U Type Impeller

Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller. Pump of U type impeller (3 Phase) operating in a higher current when reverse, please adjust into fit directions.



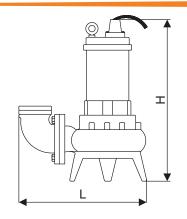


Specification

CITI	cation	
Diam	neter(mm)	80 - 100 - 150
A	mbient temp	Max. +50°C
\geq	Liquid temp	0°C to +50°C
L	iquid nature	Suitable for sewage waste water (with or without solids) from septic tanks, building basements and waste water form factories.
	Max. depth	26M
cture	Impeller	P type : semi - open, Non - clog E type : Enclosed single channel U type : Semi-vortex
Stru	M.seal	Double mechanical seal
0)	Bearing	Ball type bearing
	Impeller	Grey Iron
<u>a</u>	Volute	Grey Iron
ater	Upper cover	Grey Iron
Ĕ	Volute base ring	Grey Iron
	Mechanical seal	Motor side - Carbon v/s Ceramic Pump side - Silicon carbide v/s Silicon carbide
	Туре	Dry motor
	Insulation	F Class
	Frequency	50 Hz
The	rmal Protector	Automatic reset motor protector (up to 7.5 kW) PTC sensors (above 7.5 kW)
<u></u>	Stator body	Grey Iron
4	Shaft	S.S. AISI 410
		Thermoplastic Rubber
Pro	tection	IP 68
ı	Duty	S1 - When pump is completely submerged. S3 - When pump is partially submerged.
V	oltage	3 Ph. 400 V +5/-15%
	Material Structure T Material Structure	Bearing Impeller Volute Upper cover Volute base ring Mechanical seal Type Insulation Frequency Thermal Protector

Special Features on request

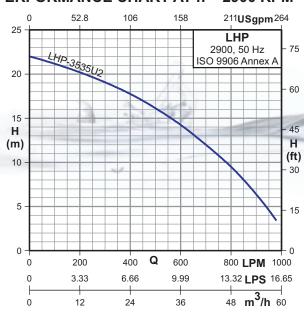
Other Voltages, Available in 60Hz.



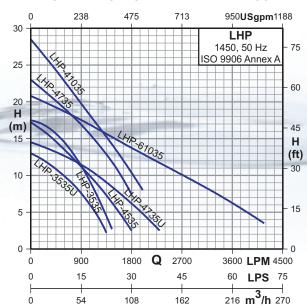


Model	Dhasa	Disc.	Impeller	Dime	nsions		Solid Passage	Net Weight	Gross Weight	Volume
Wodei	Phase	mm (Inch)	Type	Length	Width	Height	(mm)	(kg.)	(kg.)	(m³)
LHP-3535U2	3Ø	80 (3")	Р	480	220	595	56	58.0	93.0	0.186
LHP-3535	3Ø	80 (3")	U	580	310	650	50	82.0	127.0	0.288
LHP-3535U	3Ø	80 (3")	Р	552	286	695	76	80.0	125.0	0.275
LHP-4535	3Ø	100 (4")	Р	580	310	650	50	84.0	129.0	0.285
LHP-4735	3Ø	100 (4")	E	701	404	810	40	146.0	206.0	0.475
LHP-4735U	3Ø	100 (4")	U	701	404	810	65	143.0	203.0	0.475
LHP-41035	3Ø	100 (4")	E	701	404	850	40	163.0	213.0	0.495
LHP-61035	3Ø	150 (6")	E	850	472	905	70	230.0	317.0	0.663

PERFORMANCE CHART AT n = 2900 RPM



PERFORMANCE CHART AT n = 1450 RPM



PERFORMANCE DATA AT n = 2900 RPM

Model	Phase	Pov	wer	Start	m³/h	6	12	18	24	30	36	42	48	54
Model	Filase	kW	HP	Method	l/min.	100	200	300	400	500	600	700	800	900
LHP-3535U2	3Ø	3.7	5.0	Direct	H (m)	21.2	20.2	19	17.7	16.1	14.2	12	9.5	6.4

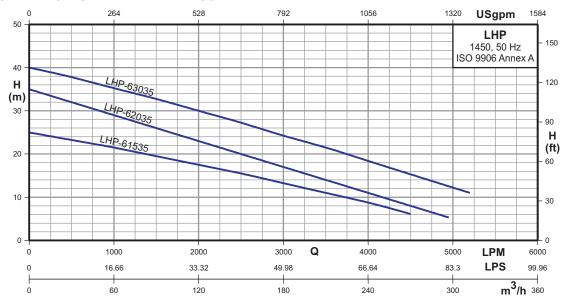
PERFORMANCE DATA AT n = 1450 RPM

Madal	Dhasa	Po	wer	Start	m³/h	12	24	36	48	54	60	90	120	150	180	210	240	246
Model	Phase	kW	HP	Method	l/min.	200	400	600	800	900	1000	1500	2000	2500	3000	3500	4000	4100
LHP-3535	3Ø	3.7	5.0	Direct		17	15.9	14.5	12.5	11.4	10	-	-	-	-	-	-	-
LHP-3535U	3Ø	3.7	5.0	Direct		12.3	11	9.9	8.5	7.5	6.3	-	-	-	-	-	-	-
LHP-4535	3Ø	3.7	5.0	Direct		16.2	14.8	13.5	12	11.1	10.2	5.8	-	-	-	-	-	-
LHP-4735	3Ø	5.5	7.5	Direct	H (m)	21.9	20.3	19	17.8	16.9	15.9	11.3	-	-	-	-	-	-
LHP-4735U	3Ø	5.5	7.5	Direct		14	13.3	12.6	12	11.5	11	8.1	4.7	-	-	-	-	-
LHP-41035	3Ø	7.5	10.0	Direct		26.7	24.5	22.7	20.8	19.7	18.5	13.6	8	-	-	-	-	-
LHP-61035	3Ø	7.5	10.0	Direct		20.1	19.4	18.7	17.9	17.5	17	15	12.9	10.8	9	6.7	4.2	3.7



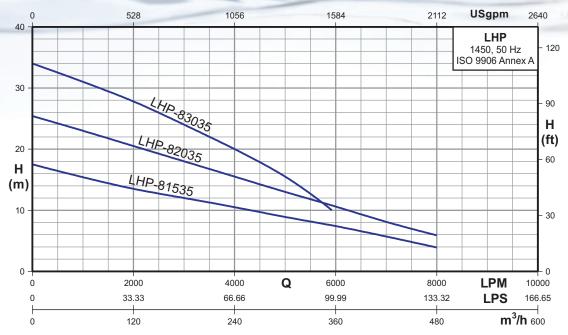
Heavy-Duty Sewage Pumps (5.0 HP to 30.0 HP)

PERFORMANCE CHART AT n = 1450 RPM



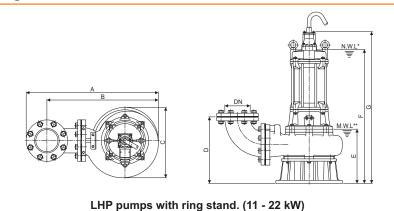
Model	Phase	Pov	wer	Start	m³/h	30	60	90	120	150	180	210	240	270	300
Wiodei	Filase	kW	HP	Method	l/min.	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
LHP-61535	3Ø	11.0	15.0	Υ - Δ		23.2	21.8	19.5	17.5	15.4	13	11	8.7	-	-
LHP-62035	3Ø	15.0	20.0	Y - △	H (m)	32	29	26	23	20	17	14	11	8	-
LHP-63035	3Ø	22.0	30.0	Y - 🛆] [37.9	35.3	32.8	30	27.2	24.1	21.5	18.3	15.3	12

PERFORMANCE CHART AT n = 1450 RPM



Model	Phase	Pov	wer	Start	m³/h	30	60	90	120	150	180	210	240	270	300	360	420	480
Wiodei	Filase	kW	HP	Method	l/min.	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8000
LHP-81535	3Ø	11.0	15.0	Y - △		16.5	15.4	14.6	13.4	12.8	12	11.3	10.5	9.6	9	-	-	-
LHP-82035	3Ø	15.0	20.0	Y - △	H (m)	24.2	23	21.9	20.6	19.4	18	16.8	15.5	14.2	13	7.3	5.5	3.9
LHP-83035	3Ø	22.0	30.0	Y - △		32.6	31	29.4	27.9	26	24	22	20	17.9	15.5	10.6	8	5.9

Figure 1



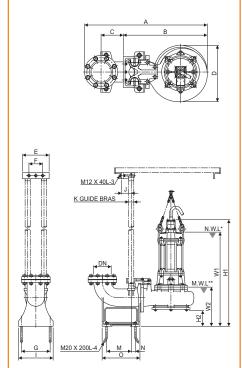
Note: (*) Minimum level for pump to operate on a continuous basis (S1 operation).

(**) Minimum acceptable liquid level of the pump. Pump should switch off at this level.

DIMENSIONS Figure 1

		_	•									
Model	Disc. Inch			Dime	ension	s mm			Solid Passage	Net Weight	Gross Weight	Volume
Three Phase	(mm)	Α	В	С	D	Е	F	G	(mm)	(kg.)	(kg.)	(m³)
LHP - 61535	6" (150)	848	705	472	442	367	958	1075	70	263	362	0.839
LHP - 62035	6" (150)	809	666	450	387	330	885	1001	76	190	289	0.839
LHP - 63035	6" (150)	850	707	496	400	348	878	945	76	232	361	0.824
LHP - 81535	8" (200)	954	785	502	482	375	966	1084	75	277	389	0.999
LHP - 82035	8" (200)	955	785	470	442	368	966	1080	75	285	397	0.999
LHP - 83035	8" (200)	940	770	510	418	325	855	924	76	310	455	1.560

Figure 2



LHP pumps on auto-coupling guide rail system (3.7 to 22.0 kW)

Note: (*) Minimum level for pump to operate on a continuous basis (S1operation).

(**) Minimum acceptable liquid level of the pump. Pump should switch off at this level.

DIMENSIONS Figure 2

Model	Disc. Inch								Dime	nsions	mm							
Three Phase	(mm)	Α	В	С	D	Е	F	G		J	K	M	N	0	W1	W2	H1	H2
LHP - 4535	4" (100)	812	536	170	310	290	245	200	247	70	50	200	22	285	650	260	718	75
LHP - 4735	4" (100)	905	630	170	405	290	245	200	247	70	50	200	22	285	695	295	791	124
LHP - 4735U	4" (100)	905	630	170	405	290	245	200	247	70	50	200	22	285	695	295	791	124
LHP - 41035	4" (100)	905	630	170	405	290	245	200	247	70	50	200	22	285	735	295	831	124
LHP - 61035	6" (150)	985	658	187	472	260	135	280	340	95	50	240	40	370	830	390	930	22
LHP - 61535	6" (150)	985	658	187	472	260	135	280	340	95	50	240	40	370	980	389	1097	22
LHP - 62035	6" (150)	946	619	187	450	260	135	280	340	95	50	240	40	370	910	355	1026	25
LHP - 63035	6" (150)	966	765	170	496	245	100	200	245	70	50	176	24	280	892	362	959	14
LHP - 81535	8" (200)	1064	662	230	502	300	175	320	350	95	50	269	41	400	984	393	1102	18
LHP - 82035	8" (200)	1064	662	230	470	300	175	320	350	95	50	269	41	400	984	386	1098	18
LHP - 83035	8" (200)	1280	885	230	510	320	280	280	350	100	40	200	80	370	891	361	960	36









Grinder Pumps (1.0 HP to 5.0 HP)

Performance Range

- Flow rate up to 325 l/min. (19.5 m³/h)
- Dynamic head up to 32 m.

Applications

- Used in pressure sewage system.
- Drainage of waste water from individual residences, apartment, buildings, recreational developments, motels.
- Transferring waste water of commercial buildings, industrial plants, waste water sampling, small hospitals.
- Schools, federal, state and local parks' waste water drainage.
- To transfer various waste water and sewage.

Features

- Durable heavy duty finned cast iron construction.
- Grinder is complete unit, light weight, compact, and portable, easy to be installed.
- Double protection at connection box: barrier grommet, barrier epoxy, prevent water ingress to the motor area, assuring a longterm reliable operation. Additionally, epoxy encapsulation and stripped leads positively eliminate wicking from the cable.
- Two balls bearing construction support shaft and rotor.
- Dry type motor with high efficiency and low current. Equipped with auto reset motor protector, prevent the motor damage from abnormal heat and current.
- The dual silicon carbide mechanical seal system and extra oil seal protection protects the motor from sewage contamination, to provide you exceptionally long pump service life.
- An excellent vortex impeller and casing water cavity housing design. Provide high efficiency and power saving, handling ground slurry and sewage without clogging or binding.
- Radial cutter and cutter ring: corrosion resistant material, hardened to 55 - 60 Rockwell C.

Direction of Rotation

Clockwise as seen from the motor rear end.

Cutting Ability Demonstration

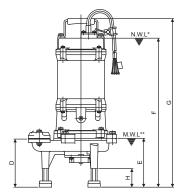
Specialized one single strong shaft with impeller and radial cutter, dramatically reduces the torque requirement on the motor, cuts with less horsepower, and increases the pump's efficiency. What's more, it prevents clogging with some troublesome objects such as sanitary napkins, plastic, rubber, disposable diapers and cloth items. The design of Lubi grinder prevents clogging, binding and roping. They chop up almost anything and everything in order for you to get a continuous, long - term pumping service.

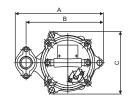


Specification

H	lors	e Power	2, 3, 5 HP
0	Α	mbient temp	Max. +50°C
pin		Liquid temp	0°C to +50°C
Pumping liquid	L	iquid nature	Suitable for pumping waste water of commercial buildings, hotels & restaurants, hospitals, industrial plants & kitchen waste.
	L	Impeller	Vortex
	ctio	Cutting Cons.	Grinding
	tru	Mech. seal	Double Mechanical seal
	Construction	Upper Bearing	Ball Bearing
ф	Ö	Lower Bearing	Two ball Bearings
Pump		Impeller	Grey Iron
	_	Volute	Grey Iron
	Vaterial	Radial Cutter	S.S AISI 440
	Mai	Cutter Ring	S.S AISI 440
	_	Mechanical	Motor side - Carbon v/s Ceramic
		seal	Pump side - Silicon carbide v/s Silicon carbide
		Type	Dry motor
		Insulation	F Class
		Frequency	50 Hz
Motor	The	ermal Protector	Automatic reset motor protector
Ĭ	1110	iniai i rotectoi	Water detector (optional)
	.0	Stator body	Grey Iron
	Materia	Shaft	S.S AISI 410
	È	Cable	Thermoplastic Rubber
	Pro	tection	IP 68
		Duty	S1 - When pump is completely submerged. S3 - When pump is partially submerged.
	V	oltage	1 Ph. 230 V +5/-15%, 3 Ph. 400 V +5/-15%









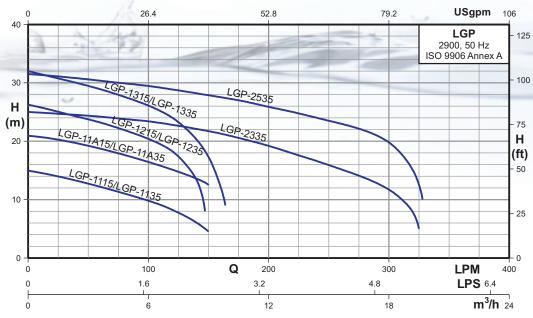
Note: (*) Minimum level for pump to operate on a continuous basis (S1 operation).

(**) Minimum acceptable liquid level of the pump. Pump should switch off at this level.

T	5114.05				DIM	IENSI	N) SNC	ИM)			NET	GROSS	VOLUME
Туре	PHASE	DN	Α	В	С	D	Е	F	G	Н	WEIGHT (kg.)	WEIGHT (kg.)	(m³)
LGP-1115/1115F	1Ø	32	286	250	203	156	160	503	570	61	28	57	0.110
LGP-1135/1135F	3Ø	32	200	250	203	156	100	503	570	01	28	57	0.110
LGP11A15/11A15F	1Ø	32	286	250	203	156	160	543	610	61	34	64	0.126
LGP11A35/11A35F	3Ø	32	200	250	203	150	100	543	610	01	34	64	0.126
LGP-1215/1215F	1Ø	32	286	250	203	156	160	543	610	61	38.0	70.0	0.126
LGP-1235/1235F	3Ø	32	200	250	203	150	100	492	556	01	34.0	64.0	0.117
LGP-1315/1315F	1Ø	32	286	250	203	156	160	543	610	61	40.0	72.0	0.126
LGP-1335/1335F	3Ø	32	200	250	203	150	100	492	556	01	36.0	66.0	0.117
LGP-2335	3Ø	50	416	339	195	226	160	522	593	61	51.0	86.0	0.156
LGP-2535	3Ø	50	410	559	190	220	100	543	616	01	54.0	89.0	0.161

All Dimensions in mm

PERFORMANCE CHART AT n = 2900 RPM FOR GRINDER PUMPS



PERFORMANCE DATA AT n = 2900 RPM

IN CINIMANOL	IN ORMANDE BAIAAI II – 2000 IN III														
Model	Phase	Power		Start	m³/h	1.5	3	4.5	6	7.5	9	12	15	18	19.5
Wodei	Phase	kW	HP	Method I/min.	25	50	75	100	125	150	200	250	300	325	
LGP-1115/1115F	1Ø	0.75	1.0	Capacitor		14	12.0	11.2	9.9	7.8	4.5				
LGP-1135/1135F	3Ø	0.75	1.0	Direct		14	12.8	11.2	9.9	7.0	4.5	-	-	-	-
LGP11A15/11A15F	1Ø	1.1	1.5	Capacitor		20.3	19.2	18	16.5	14.8	12.7	_		_	_
LGP11A35/11A35F	3Ø	1.1	1.5	Direct	H(m)	20.3	19.2	10	10.5	14.0	12.1				_
LGP-1215/1215F	1Ø	1.5	2.0	Capacitor		25	23.9	22.2	20.5	17.3	_	_	_	_	_
LGP-1235/1235F	3Ø	1.5	2.0	Direct	1 1(111)	20	20.5	22.2	20.0	17.0					
LGP-1315/1315F	1Ø	2.2	3.0	Capacitor		30.8	29.4	28	26	23.2	17.2	_	_	_	_
LGP-1335/1335F	3Ø	2:2	3.0	Direct		30.6	29.4	20	20	23.2	17.2	_		_	-
LGP-2335	3Ø	3.7	3.0	Direct		-	24.4	24	23.7	22.8	21.7	19.1	16	11.7	5
LGP-2535	3Ø		5.0	Direct		-	30.6	30	29.5	29	28	25.9	23.5	19.9	12

Note: • Available on request: Other Voltages, 60Hz.

Subscript "F" pumps will be provided with a float switch.



Large Volume Water Pumps (3.0 to 15.0 HP)

Performance Range

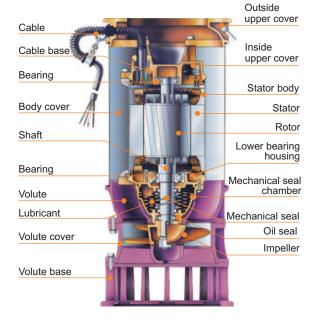
- Flow rate up to 9000 l/min. (540 m³/h)
- Dynamic head up to 6 m.

Applications

- Aquaculture water pumping and drainage for large volume water applications.
- Water supply for landscape and water features.
- Water extracting from rivers, lakes and reservoirs.
- Flood control.

Features

- Large flow capacities achieved with almost no vibration or noise by use of Propeller or Mix Flow design, giving easy operation and energy savings.
- Robust construction and compact design with a dry motor, double mechanical seal and impeller flow guide vane for high efficiency.
- Simple operation and maintenance.





Flood control



Aquafarm dewatering



Ditch dewatering



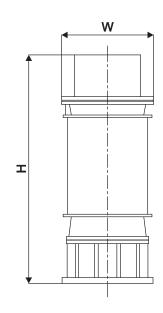
Specification

•			A					
	Diam	neter(mm)	200 - 250 - 300					
	Α	mbient temp	Max. +50°C					
ing d		Liquid temp	0°C to +50°C					
Pumping liquid	L	iquid nature	Suitable for aquaculture water pumping, flood control and water extraction from rivers, lakes and reservoir.					
		Max. depth	30 M					
	ure	Impeller	Propeller / Mixed Flow					
	Structure	M.seal	Double Mechanical seal					
Pump	Str	Bearing	Ball type bearing					
Pu	al	Impeller	Bronze					
	Material	Volute	Grey Iron					
	/lat	Upper cover	Bronze					
	_	M.seal	Carbon v/s Ceramic					
		Type	Dry motor					
		Insulation	F Class					
Motor		Frequency	50 Hz					
M	<u></u>	Stator body	S.S AISI 304					
	Material	Shaft	S.S AISI 304					
	2	Cable	Thermoplastic Rubber					
	Pro	tection	IP 68					
		Duty	S1 - When pump is completely or partially submerg					
	Voltage 3 Ph. 400 V +5/-15%							

Direction of Rotation

Clockwise as seen from the motor rear end.

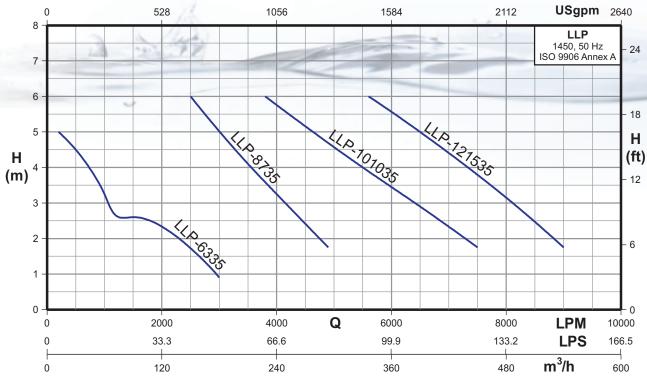






Model	Disc.	Diı	mensions (m	nm)	Solid	Net Weight	Gross Weight	Volume	
Three Phase	mm (Inch)	Length	Width	Height	Passage (mm)	(kg.)	(kg.)	(m³)	
LLP-6335	150 (6")	-	285	638	20	52.0	91.0	0.159	
LLP-8735	200 (8")	-	340	923	22	122.0	176.0	0.272	
LLP-101045	250 (10")	-	380	1015	22	164.0	228.0	0.344	
LLP-121535	300 (12")	-	430	1077	23	209.0	282.0	0.432	

PERFORMANCE CHART AT n = 1450 RPM FOR HEAVY DUTY SEWAGE PUMPS



PERFORMANCE DATA AT n = 1450 RPM

MODEL	POV	VER	START	m³/h	30	60	90	120	150	180	210	240	270	300	360	420	510
Three Phase	kW	HP	METHOD	l/min	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8500
LLP-6335	2.2	3.0	Direct		4.5	3.2	2.6	2.3	2	-	-	-	-	-	-	-	-
LLP-8735	5.5	7.5	Direct	H (m)	-	-	-	-	6	5	4.1	3.3	2.4	-	-	-	-
LLP-101035	7.5	10.0	Direct	(111)	-	-	-	-	-	-	-	5.8	5.2	4.6	3.4	2.5	-
LLP-121535	11.0	15.0	Direct		-	-	-	-	-	-	-	-	-	-	5.6	4.4	2.5



Heavy-Duty Construction Drainage Pumps (1.5 HP to 15.0 HP)

Performance Range

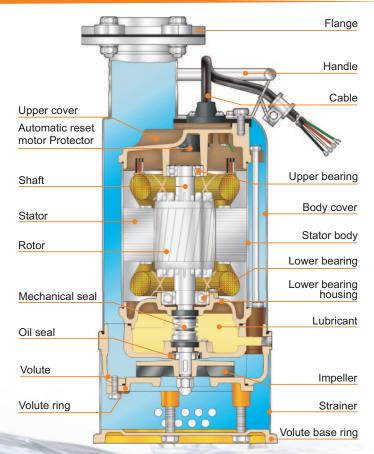
- Flow rate up to 2600 l/min. (156 m³/h)
- Dynamic head up to 47 m.

Applications

- Civil engineering dewatering of tunneling and ground works, also for storm water sewers.
- Dewatering of fluids containing solid sediments.

Features

- Specifically designed for civil engineering applications, where a heavy duty, light weight, top discharge design, is required which is easy to handle. The double outer casing, water cooled motor makes it particularly suitable for low water level applications.
- → A fully waterproof IP 68 stainless steel structure. combined with a high grade silicon carbide double mechanical seals.
- The LAS range of pumps are compact, strong and easy to operate in any situation.
- Special designed high efficient and wear resistant HCR (High Chrome) impeller.
- Multi impeller design suitable from high head with small capacity to low head with large capacity of application requirement.
- Optional discharge connection (Hose, flange and thread connection)



Direction of Rotation

Clockwise as seen from the motor rear end.

Special Features on Request

- Other voltages.
- Available in 60Hz.

Thermal overload protector

Equipped with Automatic reset motor protector, prevents motor from burning due to high temperature/phase failure/ voltage drop and locked impeller.

HCR Impeller

→ The LAS impeller is manufactured with a high chrome alloy (HCR) steel with a hardness of 55 - 60 Rc.. which makes it resistant to prolonged use in abrasive applications.



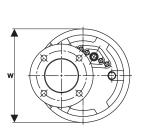


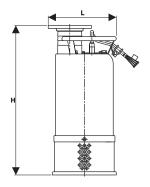
Protector

Impeller

Specification

Sp	ecine	alion									
	H	I P	1.1 to 3.7 kW	5.5 to	11 kW						
	Diame	ter (mm)	50 - 80	80	100 - 150						
D	Ambie	ent temp	Max	+50°C							
Pumping	Liquid	temp	0°C to	+50°C							
lu :	Liquid	nature	Suitable for dewatering at civil engineering	sites and pumpin	g of storm water.						
	Max d	epth	30)m							
	a.	Impeller	Open	Open	Enclosed						
	Structure	Mech. seal	Double Med	hanical seal							
	Str	Bearing									
		ISI 304									
9	<u> </u>	Upper cover	Grey	/ Iron							
Pump	Material	Volute	Hard Du	ctile Iron							
-	Ĭ	Impeller	Н	CR							
		Wear Ring	-	H	CR						
	seal	Motor Side	Carbon v/s	s Ceramic							
	S.	Pump Side	Silicon Carbide v	s Silicon Carbide	•						
	Туре		Dry n	notor							
,	Insula	ition	F C	lass							
_	Frequ	ency	50	Hz							
Motor	Thern	nal Protector	Automatic reset	motor protector							
	<u>a</u> .	Stator body	S.S. AISI 304	Grey	/ Iron						
	Material	Shaft	S.S. Al	ISI 410							
	ž	Cable	Thermoplas	stic Rubber							
	Protection IP 68										
	Duty S1 - When pump is completely or partially submerged.										
	Volt	age	1 Ph. 230 v +5/-15%, 3 Ph. 400 v +5/-15%	3 Ph. 400	v +5/-15%						











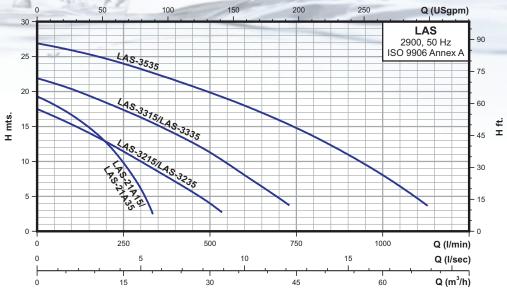
LAS 21A15, 21A35

LAS 3215, 3235, 3315, 3335, 3535

LAS 3735, 4735, 6735, 41035, 41535, 61035, 61535

								01000		
М	odel	Disc. Dimensions (mm			(mm)	Solid	Net Weight	Gross Weight	Volume	
Single Phase	Three Phase	mm (Inch)	Length	Width	Height	Passage mm	(kg.)	(kg.)	(m³)	
LAS 21A15/21A15F	-	EO (2")	210	210	510	8	29.0	49.0	0.077	
-	LAS 21A35/21A35F	50 (2")	210	210	435	8	25.0	45.0	0.068	
LAS 3215/3215F	-	80 (3")	250	240	630	11	43.0	68.0	0.111	
-	LAS 3235/3235F	00 (3)	250	240	535	11	39.0	64.0	0.097	
LAS 3315/3315F	-	80 (3")	250	240	645	11	47.0	72.0	0.113	
-	LAS 3335/3335F	00 (3)	250	240	560	11	42.0	67.0	0.101	
-	LAS 3535	80 (3")	250	240	600	11	46.0	71.0	0.107	
-	LAS 3735	80 (3")	290	290	690	10	74.0	102.0	0.150	
-	LAS 4735	100 (4")	290	290	690	10	76.0	104.0	0.150	
-	LAS 6735	150 (6")	290	290	745	10	78.0	106.0	0.160	
-	LAS 41035	100 (4")	290	290	690	10	76.0	104.0	0.150	
-	LAS 61035	150 (6")	290	290	745	10	80.0	108.0	0.160	
-	LAS 41535	100 (4")	290	290	725	10	82.0	112.0	0.170	
-	LAS 61535	150 (6")	290	290	785	10	86.0	116.0	0.180	

PERFORMANCE CHART AT n = 2900 RPM FOR CONSTRUCTION DRAINAGE PUMP



PERFORMANCE DATA AT n = 2900 RPM

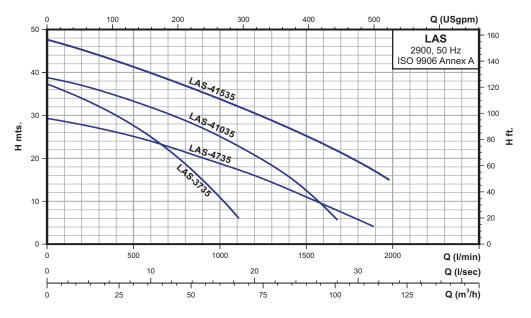
Мо	Model			Start	m³/h	6	12	18	24	30	36	42	48	60	66
Single Phase	Three Phase	kW	HP	Method	I/min	100	200	300	400	500	600	700	800	1000	1100
LAS 21A15/21A15F	-	1.1	1.5	Capacitor		16.5	12.5	6	_	_	_	_	_	_	_
-	LAS 21A35/21A35F	1.1	1.5	Direct		10.5	12.0	0	_				_		
LAS 3215/3215F	-	1.5	20	Capacitor		15.3	12.8	10	7	4	_	_	_	_	_
-	LAS 3235/3235F	1.5	2.0	Direct	H	15.5	12.0	10		7					
LAS 3315/3315F	-	2.2		Capacitor		20.2	18.4	16.4	14	12.5	8	5.5		_	_
-	LAS 3335/3335F	2.2	3.0	Direct		20.3	10.4	16.4	14	12.5	0	0.5	-	-	_
-	LAS 3535	3.7	5.0	Direct		26	24.5	23.3	21.6	19.9	18	16	13.5	8	4.7

Note: Subscript "F" pumps will be provided with a float switch.



Heavy-Duty Construction Drainage Pumps (7.5 HP to 15.0 HP)

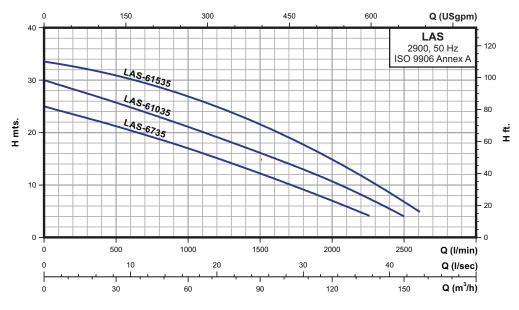
PERFORMANCE CHART AT n = 2900 RPM FOR CONSTRUCTION DRAINAGE PUMP



PERFORMANCE DATA AT n = 2900 RPM

Model	Pov	ver	Start	m³/h	12	18	24	30	36	48	54	60	66	72	84	96	108
Three Phase	kW	HP	Method	I/min	200	300	400	500	600	800	900	1000	1100	1200	1400	1600	1800
LAS 3735	5.5	7.5	Direct		34.0	32.0	30.0	27.5	25.0	18.6	15.0	11.0	6.2	-	-	-	-
LAS 4735	5.5	7.5	Direct	Н	27.9	27.0	26.0	25.0	24.0	21.5	20.0	18.8	17.5	16.0	12.7	9.20	5.7
LAS 41035	7.5	10.0	Direct	m	37.0	35.9	34.6	33.4	32.0	28.8	27.0	25.0	23.0	20.8	15.6	9	-
LAS 41535	11.0	15.0	Direct		45.3	44.0	42.7	41.3	39.9	37.0	35.4	33.8	32.2	30.5	27.0	23.3	19.3

PERFORMANCE CHART AT n = 2900 RPM FOR CONSTRUCTION DRAINAGE PUMP



PERFORMANCE DATA AT n = 2900 RPM

Model	Pov	wer	Start	m³/h	18	36	54	72	90	108	126	144
Three Phase	kW	HP	Method	l/min	300	600	900	1200	1500	1800	2100	2400
LAS 6735	5.5	7.5	Direct		22.8	20.5	18.0	15.0	12.1	9.0	6.0	-
LAS 61035	7.5	10.0	Direct	H m	27.5	24.9	22.0	19.0	16.0	13.0	9.4	5.4
LAS 61535	11.0	15.0	Direct	'''	32.1	30.2	27.8	26.0	21.5	17.7	14.9	8.6