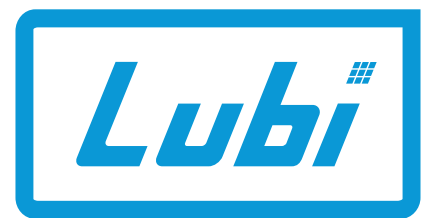


**CSP, MSP, LAP, LFP, LBP,
LHP, LGP, LLP & LAS Series**

**Drainage, Sewage,
Grinder & Propeller Pumps**

50 Hz



PUMPS • MOTORS

ISO 9001 Company



Pumping Solution

Declaration of Conformity

We, **Lubi** hereby declare under our sole responsibility that the products **CSP, MSP, LAP, LFP, LHP, LAS, LGP** and **LLP** to which this declaration relates, are in conformity with these Council Directives on the approximation of the laws of the EC Member States:

- Machinery Directive (2006/42/EC).
Standards used: EN 809: 2009 and EN 60204-1: 2006.
- Low Voltage Directive (2006/95/EC).
Applicable when the rated power is lower than 2.2 kW.
Standards used: EN 60335-1: 2002 and EN 60335-2-41: 2003.
- Electromagnetic compatibility (2004/108/EC).
Standards used: EN 61000-6-2 and EN 61000-6-3.

Nosotros, **Lubi** declaramos bajo nuestra entera responsabilidad que los productos **CSP, MSP, LAP, LFP, LHP, LAS, LGP** y **LLP** a los cuales se refiere esta declaración, están conformes con las Directivas del Consejo en la aproximación de las leyes de los Estados Miembros del EM:

- Directiva de Maquinaria (2006/42/CE).
Normas aplicadas: EN 809: 2009 y EN 60204-1: 2006.
- Directiva de Baja Tensión (2006/95/CE).
Aplicable cuando el índice de potencia es inferior a 2,2 kW.
Normas aplicadas: EN 60335-1: 2002 y EN 60335-2-41: 2003.
- Compatibilidad electromagnética (2004/108/CE).
Normas aplicadas: EN 61000-6-2 y EN 61000-6-3.

Nous, **Lubi** déclarons sous notre seule responsabilité, que les produits **CSP, MSP, LAP, LFP, LHP, LAS, LGP** et **LLP**, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des Etats membres CE relatives aux normes énoncées cidessous:

- Directive Machines (2006/42/CE).
Normes utilisées: EN 809: 2009 et EN 60204-1: 2006.
- Directive Basse Tension (2006/95/CE).
Applicable lorsque la puissance nominale est inférieure à 2,2 kW.
Normes utilisées: EN 60335-1: 2002 et EN 60335-2-41: 2003.
- Compatibilité électromagnétique (2004/108/CE).
Normes utilisées: EN 61000-6-2 et EN 61000-6-3.



Technical Director



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CSP

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CSP Cast Iron

Submersible Drainage Pump



**Submersible drainage pump
with Wide angle 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 dissipation.
- ➔ 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

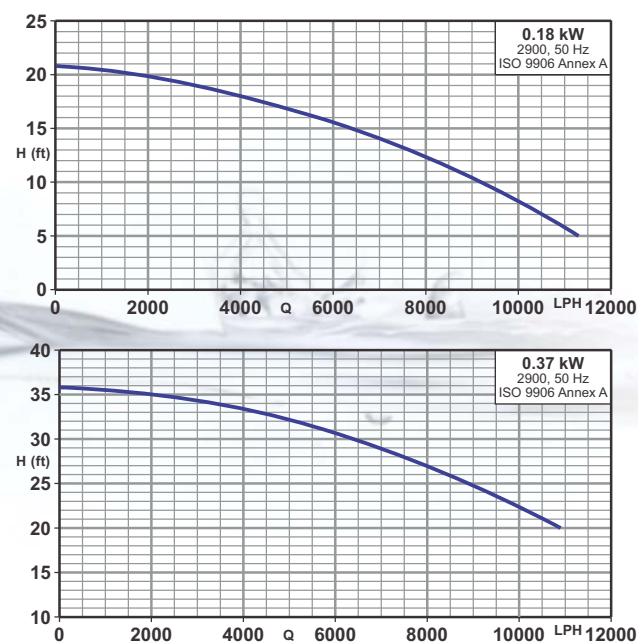
Automatic submersible drainage pump with	Models available	
	0.18 kW	0.37 kW
* Wide Angle Float Switch	CSP521T	CSP551T

Performance Table

Model	kW	HP	Amp	m ³ /h l/h	1	2	4	6	8	10	11	Max. Lift (no flow) (mtrs)	Max. Solid Passage Size (mm)	Dimensions & Weight Data				Cable data Cable x core x size (mm ²) x length (m) x Material
					H (m)									Major Width (mm)	Height (mm)	Gross Weight (kg.)	Volume (m ³)	
CSP521T	0.18	0.25	2.0		6.2	6.1	5.5	4.7	3.7	2.5	1.7	6.4	10	229	241	13.5	0.023	1 x 3 x 1.0 x 5 x PVC
CSP551T	0.37	0.50	3.0		10.8	10.7	10.1	9.4	8.2	6.8	-	11	10	254	254	18.0	0.028	1 x 3 x 1.0 x 5 x PVC

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

Performance Curve



Minimum sump pit diameter

Model		Minimum Sump Pit Dia. (mm)
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.

MSP Corrosion Proof

Submersible Drainage Pump



**Submersible drainage pump
with Wide angle 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 dissipation.
- ➔ 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

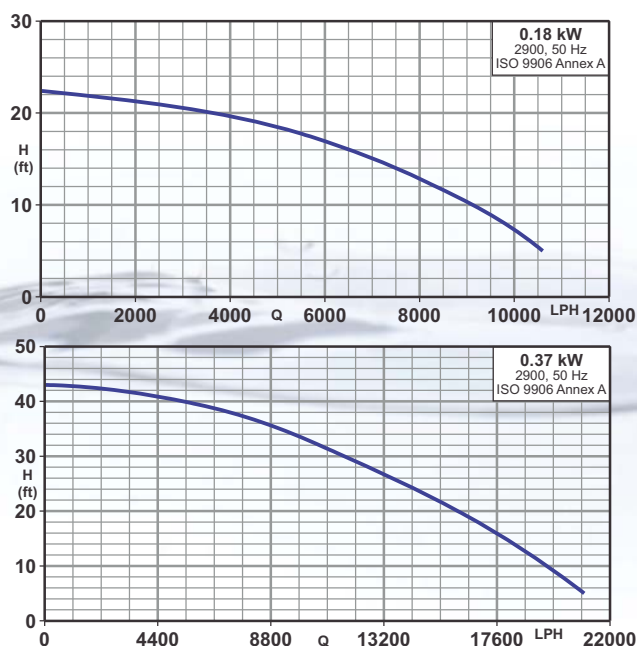
Automatic submersible drainage pump with	Models available	
	0.18 kW	0.37 kW
* Wide Angle Float Switch	MSP521T	MSP551T

Performance Table

Model	kW	HP	Amp	m³/h l/h	2	4	6	8	10	12	14	16	18	20	Max. Lift (no flow) (mtrs)	Max. Solid Passage Size (mm)	Dimensions & Weight Data				Cable data cable x core x size (mm²) x length (m) x Material
					H (m)												Major Width (mm)	Height (mm)	Gross Weight (kg.)	Volume (m³)	
MSP521T	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	1 x 3 x 1.0 x 5 x PVC
MSP551T	0.37	0.50	3.0		12.9	12.5	12	11.2	10.2	8.9	7.7	6.1	4.5	2.5	13	10	267	267	9.0	0.028	1 x 3 x 1.0 x 5 x PVC

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

Performance Curve



Minimum sump pit diameter

Model		Minimum Sump Pit Dia. (mm)
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 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.

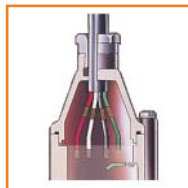
Thermal overload protector

- 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.



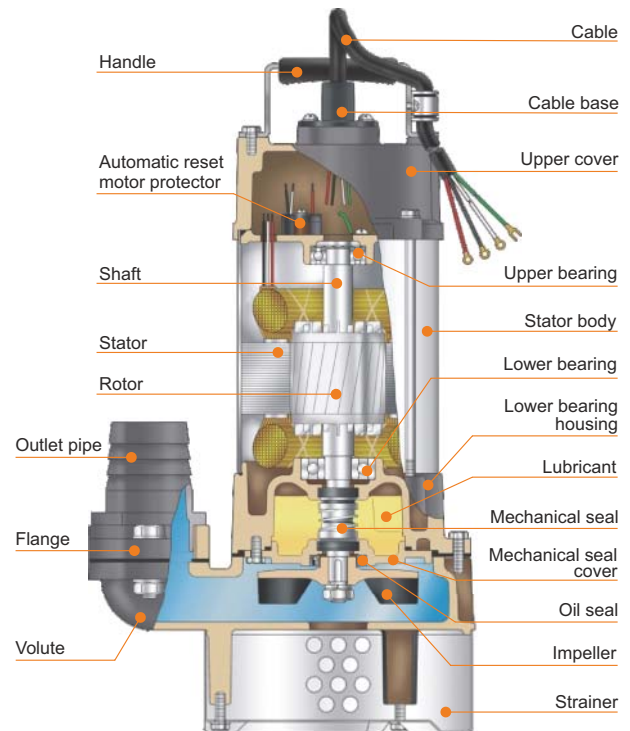
U Type Impeller

- 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

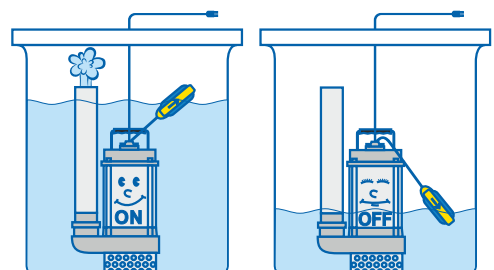
- 2 - pole dry submersible motor
- 50Hz (n = 2900 RPM)
- Single phase : 230V +5 - 15 %
- Three phase : 400V +5 - 15 %
- Protection IP 68
- Insulation class : F

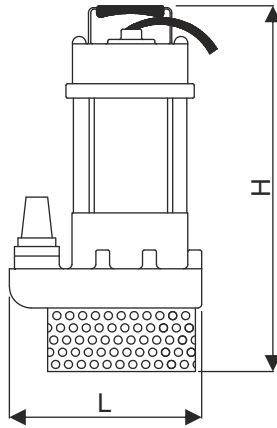
Operating Conditions

- 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.

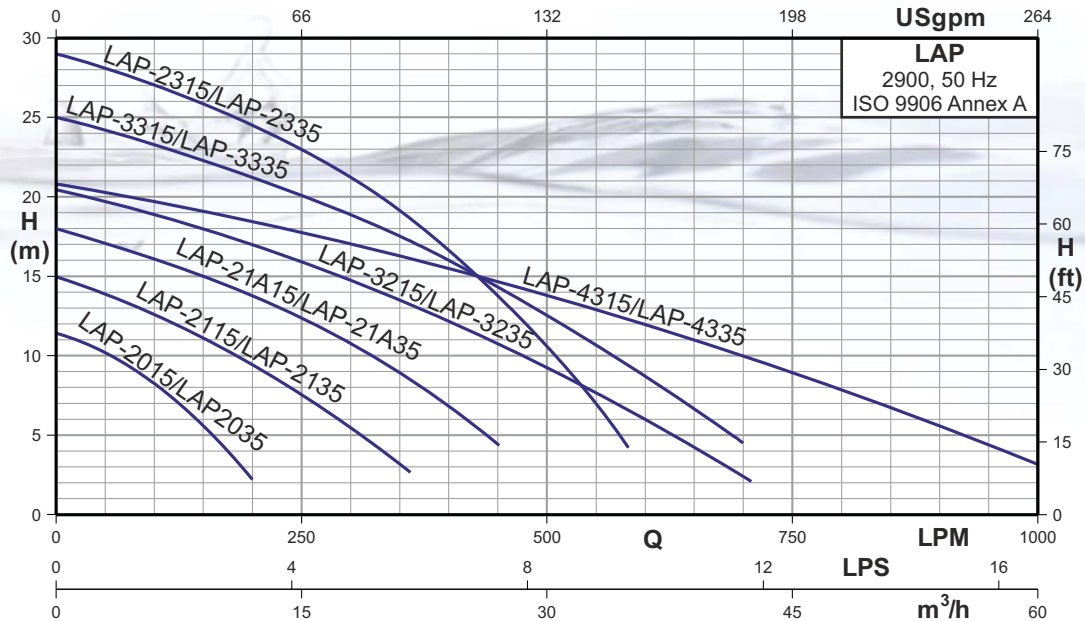




DIMENSIONS

Model		Disc. mm (inch)	Dimensions (mm)			Solid Passage mm	Net Weight (kg.)	Gross Weight (kg.)	Volume (m³)	Cable data cable x core x size (mm²) x length (m) x Material
Single Phase	Three Phase		Length	Width	Height					
LAP-2015/2015F	-	50 (2")	230	161	365	8	15.0	17.0	0.032	1 x 3 x 1.0 x 5 x PVC
-	LAP-2035/2035F		230	161	365		15.0	17.0	0.032	1 x 4 x 1.0 x 5 x PVC
LAP-2115/2115F	-	50 (2")	277	178	440	10	19.0	21.0	0.045	1 x 3 x 1.0 x 5 x PVC
-	LAP-2135/2135F		277	178	440		18.0	20.0	0.045	1 x 4 x 1.0 x 5 x PVC
LAP-3215/3215F	-	80 (3")	412	208	569	11	44.0	69.0	0.146	1 x 3 x 2.0 x 8 x PVC
-	LAP-3235/3235F		412	208	470		40.0	65.0	0.146	1 x 4 x 1.8 x 8 x PVC
LAP-2315/2315F	-	50 (2")	280	216	572	11	46.0	70.0	0.146	1 x 3 x 3.5 x 8 x PVC
-	LAP-2335/2335F		280	216	493		43.0	66.0	0.146	1 x 4 x 1.8 x 8 x PVC
LAP-3315/3315F	-	80 (3")	385	216	575	11	47.0	71.0	0.146	1 x 3 x 3.5 x 8 x PVC
-	LAP-3335/3335F		385	216	495		43.0	67.0	0.146	1 x 4 x 1.8 x 8 x PVC
LAP-4315/4315F	-	100 (4")	390	208	584	11	47.0	72.0	0.146	1 x 3 x 3.5 x 8 x PVC
-	LAP-4335/4335F		390	208	495		43.0	68.0	0.146	1 x 4 x 1.8 x 8 x PVC
LAP-21A15/21A15F	-	50 (2")	277	178	470	10	22.0	25.5	0.050	1 x 3 x 1.5 x 5 x PVC
-	LAP-21A35/21A35F		277	178	470		21.0	24.5	0.050	1 x 4 x 1.0 x 5 x PVC

PERFORMANCE CHART AT n = 2900 RPM FOR DRAINAGE PUMPS



PERFORMANCE DATA AT n = 2900 RPM

Model		Power		Start Method	m³/h l/min.	6	9	12	18	24	30	36	45	54
Single Phase	Three Phase	kW	HP			100	150	200	300	400	500	600	750	900
LAP-2015/2015F	-	0.37	0.5	Capacitor	H (m)	8.3	5.5	2.2	-	-	-	-	-	-
-	LAP-2035/2035F			Direct										
LAP-2115/2115F	-	0.75	1.0	Capacitor										
-	LAP-2135/2135F			Direct										
LAP-3215/3215F	-	1.50	2.0	Capacitor										
-	LAP-3235/3235F			Direct										
LAP-2315/2315F	-	2.20	3.0	Capacitor										
-	LAP-2335/2335F			Direct										
LAP-3315/3315F	-	2.20	3.0	Capacitor										
-	LAP-3335/3335F			Direct										
LAP-4315/4315F	-	2.20	3.0	Capacitor										
-	LAP-4335/4335F			Direct										
LAP-21A15/21A15F	-	1.10	1.5	Capacitor		16.0	15	13.8	10.7	6.9	-	-	-	-
-	LAP-21A35/21A35F			Direct										

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 of 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.

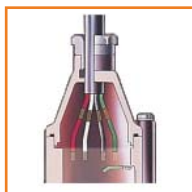
Thermal overload protector

- 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.



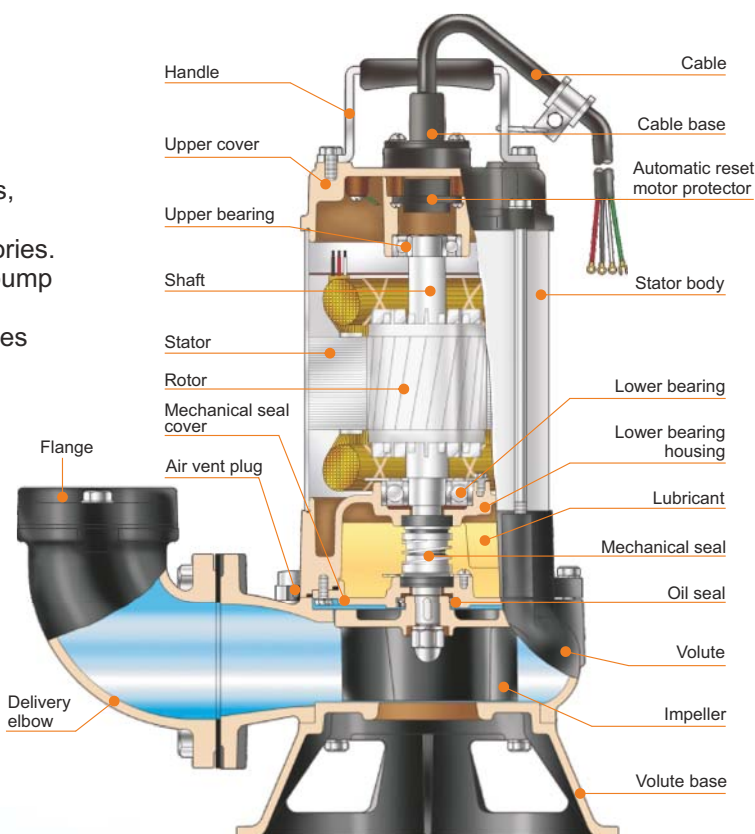
P Type Impeller

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



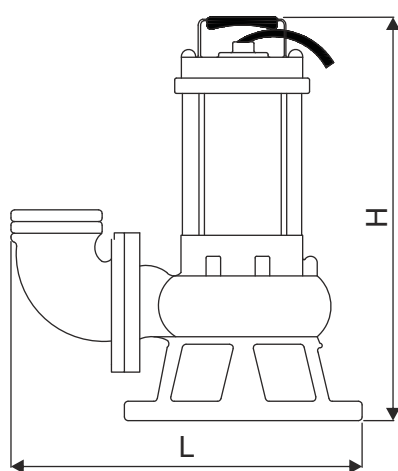
U Type Impeller

- 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

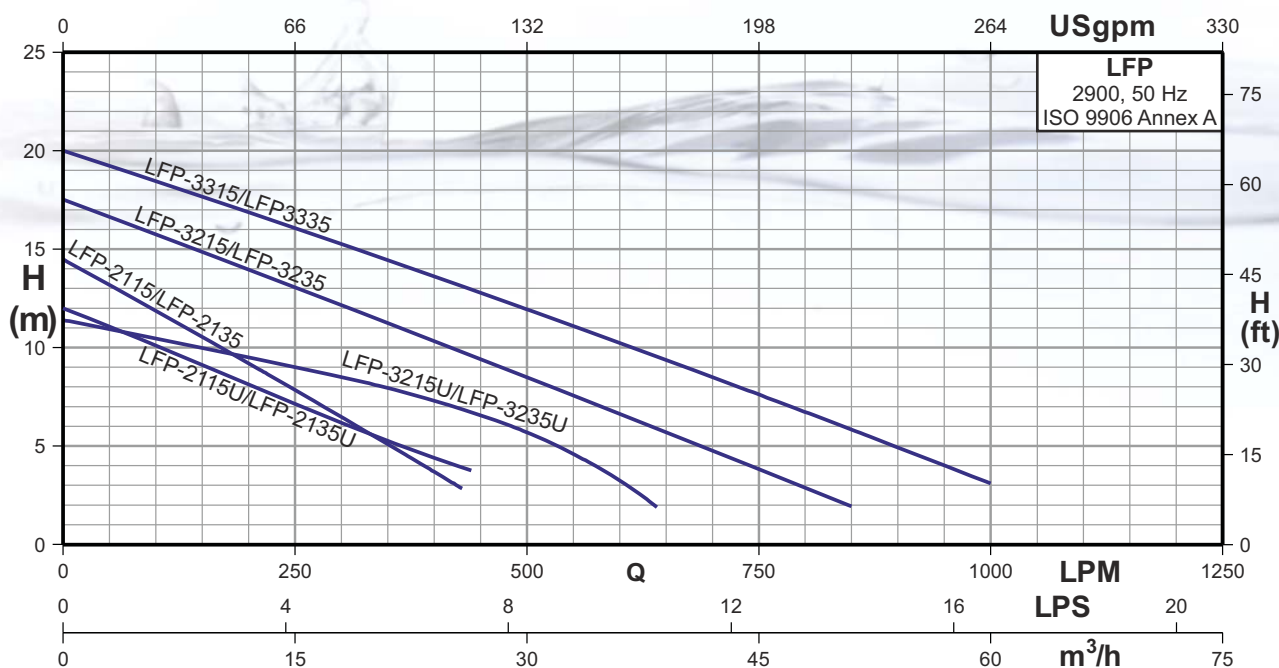
Diameter(mm)			50 - 80
Pumping liquid	Ambient temp		Max. +50°C
	Liquid temp		0°C to +50°C
	Liquid nature		Suitable for sewage waste water (with or without solids) from septic tanks, building basements and waste water form factories.
Pump	Structure	Impeller	Semi - open
		M.seal	Double Mechanical seal
		Bearing	Ball type bearing
	Material	Impeller	Grey Iron
		Volute	Grey Iron
		Upper cover	Grey Iron
		Volute base	Grey Iron
	M.seal	Motor side	Carbon v/s Ceramic (0.75 - 2.2 kW)
		Pump side	Carbon v/s Ceramic (0.75 kW) Silicon Carbide v/s Silicon Carbide (1.5 - 2.2 kW)
Motor	Insulation		F Class
	Frequency		50 Hz
	Thermal Protector		Automatic reset motor protector
	Material	Stator body	S.S. AISI 304
		Shaft	S.S. AISI 410
		Cable	PVC
Protection		IP 68	
Duty		S1 - When pump is completely submerged. S3 - When pump is partially submerged.	
Voltage		1 Ph. 230 V +5%/-15%, 3 Ph. 400 V +5%/-15%	



DIMENSIONS

Model		Disc. mm (Inch)	Impeller Type	Dimensions (mm)			Solid Passage (mm)	Net Weight (kg.)	Gross Weight (kg.)	Volume (m ³)	Cable data cable x core x size (mm ²) x length (m) x Material
Single Phase	Three Phase			Length	Width	Height					
LFP-2115/2115F	-	50 (2")	P	304	235	475	23	21.0	23.0	0.072	1 x 3 x 1.0 x 5 x PVC
-	LFP-2135/2135F			304	235	475		20.0	22.0	0.072	1 x 4 x 1.0 x 5 x PVC
LFP-2115U/2115UF	-	50 (2")	U	265	192	455	35	21.0	23.0	0.072	1 x 3 x 1.0 x 5 x PVC
-	LFP-2135U/2135UF			265	192	455		20.0	22.0	0.072	1 x 4 x 1.0 x 5 x PVC
LFP-3215/3215F	-	80 (3")	P	432	260	600	32	44.0	71.0	0.179	1 x 3 x 2.0 x 8 x PVC
-	LFP-3235/3235F			432	260	505		40.0	67.0	0.179	1 x 4 x 1.8 x 8 x PVC
LFP-3315/3315F	-	80 (3")	P	432	260	620	35	48.0	73.0	0.179	1 x 3 x 3.5 x 8 x PVC
-	LFP-3335/3335F			432	260	530		43.0	69.0	0.179	1 x 4 x 1.8 x 8 x PVC
LFP-3215U/3215UF	-	80 (3")	U	408	258	610	15	44.0	71.0	0.179	1 x 3 x 2.0 x 8 x PVC
-	LFP-3235U/3235UF			408	258	530		40.0	67.0	0.179	1 x 4 x 1.8 x 8 x PVC

PERFORMANCE CHART AT n = 2900 RPM FOR SEWAGE PUMPS



PERFORMANCE DATA AT n = 2900 RPM

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

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

Performance Range

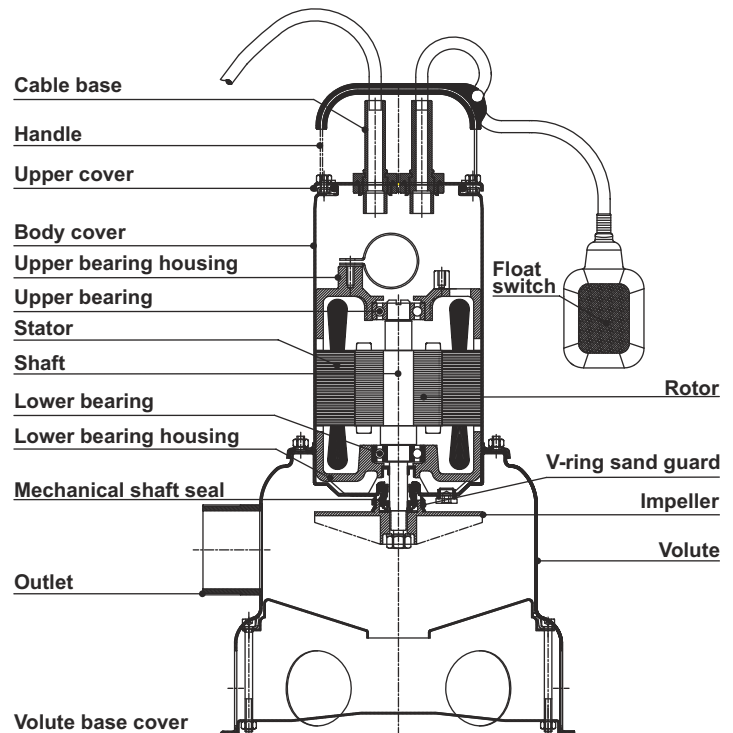
- Flow rate up to 450 l/min. (27 m³/h)
- Dynamic head up to 15 m.

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



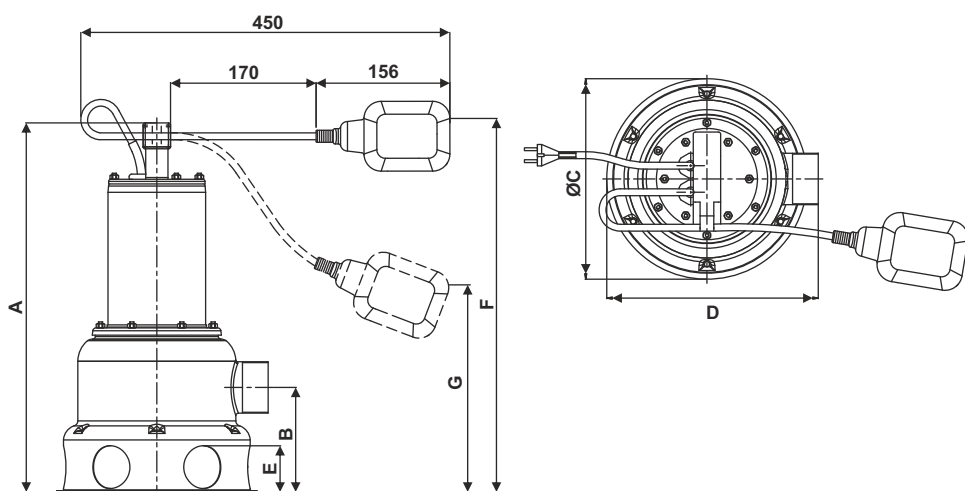
- Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller.

Specification

Pumping liquid	Ambient temp		Max. +50°C
	Liquid temp		0°C to +50°C
	Liquid nature		Pumps are suitable for drainage waste or sump drainage water with or without solids.
Pump	Structure	Impeller	Vortex
		M.seal	Mechanical seal
		Bearing	Ball type bearing
	Material	Impeller	S.S. AISI 304
		Volute	S.S. AISI 304
		Upper cover	S.S. AISI 304
		M.seal	Sic/Sic
Motor	Type		Dry motor
	Insulation		F Class
	Frequency		50 Hz
	Material	Stator body	S.S. AISI 304
		Shaft	S.S AISI 410
		Cable	PVC
Protection		IP 68	
Duty		S1 - When pump is completely submerged S3 - When pump is partially submerged	
Voltage		1 Ph. 230 V +5/-15%. 3 Ph. 400 V +5%/-15%	

Direction of Rotation

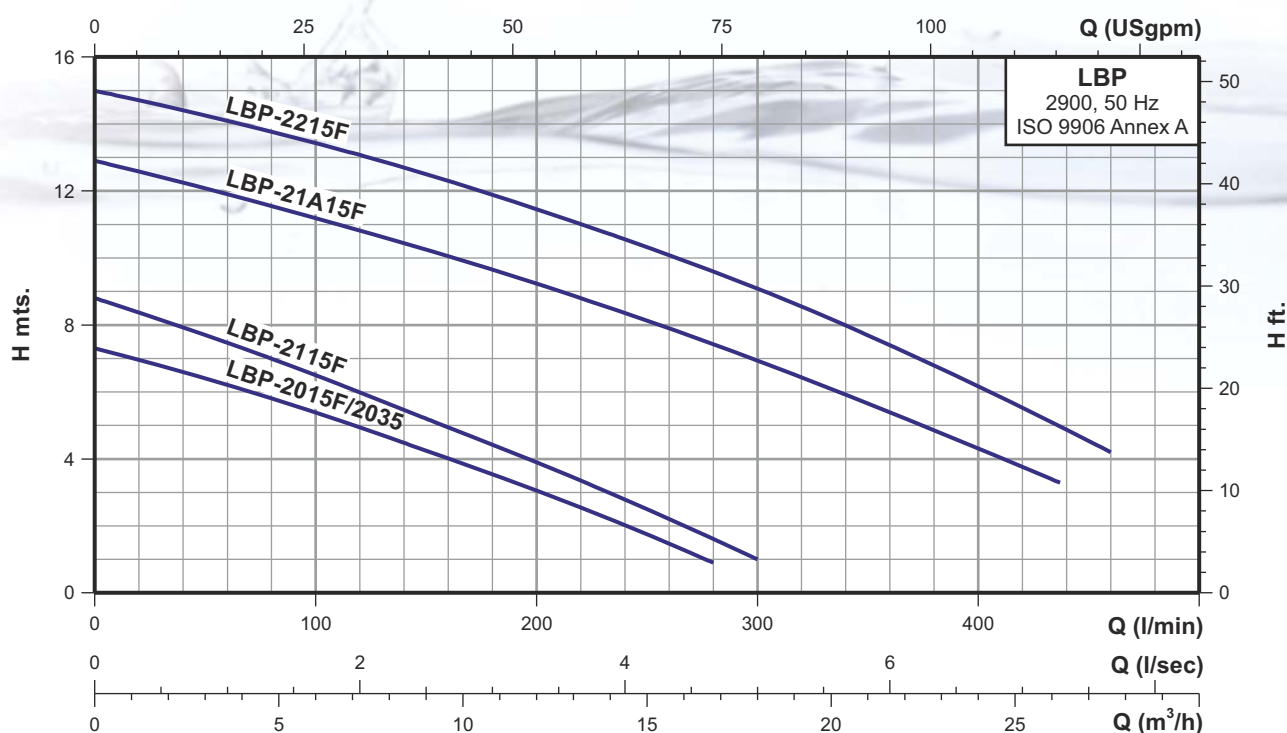
- Clockwise as seen from the motor rear end.



DIMENSIONS

Model		Disc. mm (Inch)	Dimensions (mm)							Net Weight (kg.)	Gross Weight (kg.)	Volume (m ³)	Cable data cable x core x size (mm ²) x length (m) x Material
Single Phase	Three Phase		A	B	C	D	E	F	G				
LBP 2015F	-	50 (2")	430	123	235	241	55	550	290	9.5	11.8	0.045	1 x 3 x 1.0 x 5 x PVC
-	LBP 2035/2035F	50 (2")	430	123	235	241	55	550	290	9.5	11.8	0.045	1 x 4 x 1.0 x 5 x PVC
LBP 2115F	-	50 (2")	430	123	235	241	55	550	290	9.5	11.8	0.045	1 x 3 x 1.0 x 5 x PVC
LBP 21A15F	-	50 (2")	498	123	235	241	55	550	290	13.8	15.3	0.050	1 x 3 x 1.5 x 5 x PVC
LBP 2215F	-	50 (2")	518	123	235	241	55	550	290	15.2	16.7	0.050	1 x 3 x 1.5 x 8 x PVC

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



PERFORMANCE DATA AT n = 2900 RPM

MODEL		POWER		START METHOD	m ³ /h l/min	3	6	9	12	15	18	21	24	27
Single Phase	Three Phase	kW	HP			50	100	150	200	250	300	350	400	450
LBP 2015F	-	0.37	0.5	Capacitor	H (m)	6.4	5.4	4.3	3.1	1.7	-	-	-	-
-	LBP 2035/2035F	0.37	0.5	Direct		6.4	5.4	4.3	3.1	1.7	-	-	-	-
LBP 2115F	-	0.75	1.0	Capacitor		7.6	6.5	5.3	3.9	2.5	1	-	-	-
LBP 21A15F	-	1.10	1.5	Capacitor		12	11.2	10.3	9.2	8.1	6.9	5.7	4.3	-
LBP 2215F	-	1.50	2.0	Capacitor		14.3	13.4	12.5	11.5	10.4	9.1	7.7	6.1	4.6

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

Heavy-Duty Sewage Pumps (5.0 HP to 60.0 HP)

Performance Range

- Flow rate up to 11600 l/min. (700 m³/h)
- Dynamic head up to 49 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.
- A water detector 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.
- 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.

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.



Miniature Thermal Protector

- Miniature Thermal Protector (MTP) is embedded in the windings of the motor. The MTP will transmit a signal to a control panel when windings temperature reaches a set point. This feature is available in 11 kW & above models only.

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.



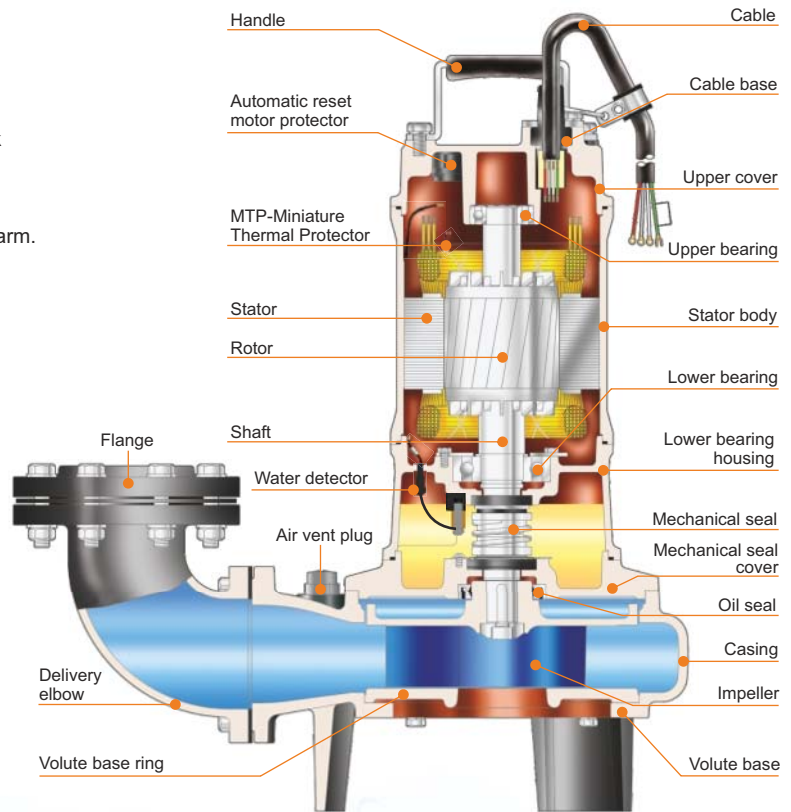
E Type Impeller

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

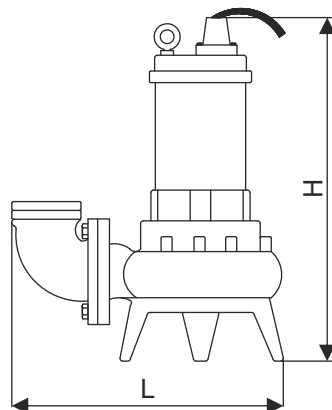


Specification

Diameter(mm)		80 - 100 - 150	
Pumping liquid	Ambient temp		Max. +50°C
	Liquid temp		0°C to +50°C
	Liquid nature		Suitable for sewage waste water (with or without solids) from septic tanks, building basements and waste water form factories.
Pump	Structure	Impeller	P type : semi - open, Non - clog E type : Enclosed single channel U type : Semi-vortex
		M.seal	Double mechanical seal
		Water detector	Installed in the seal chamber to detect water leakage from water infiltrating (5.5 kW and above)
		Bearing	Ball type bearing
	Material	Impeller	Grey Iron
		Volute	Grey Iron
		Upper cover	Grey Iron
		Volute base ring	Grey Iron
		Mechanical seal	Motor side - Carbon v/s Ceramic Pump side - Silicon carbide v/s Silicon carbide
Motor	Type		Dry motor
	Insulation		F Class
	Frequency		50 Hz
	Thermal Protector		Automatic reset motor protector (up to 7.5 kW) Miniature Thermal Protector (11 kW & above)
	Material	Stator body	Grey Iron
		Shaft	S.S. AISI 410
		Cable	Thermoplastic Rubber/PVC
Protection		IP 68	
Duty		S1 - When pump is completely submerged. S3 - When pump is partially submerged.	
Voltage		3 Ph. 400 V +5/-15%	

Special Features on request

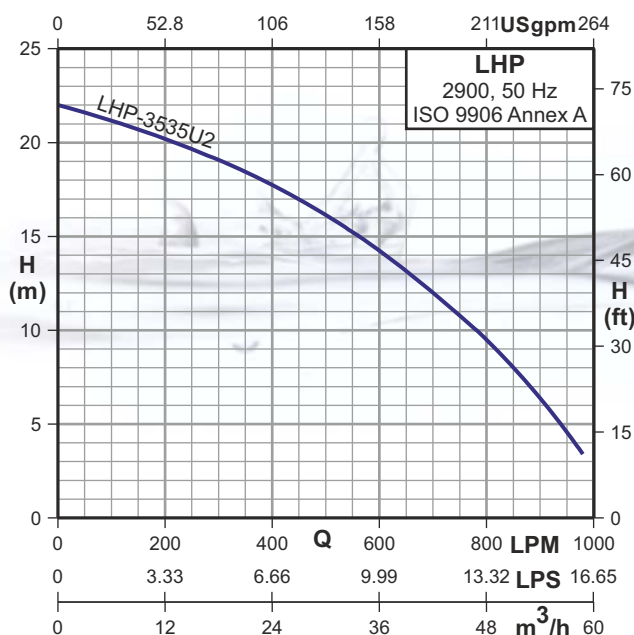
- Other Voltages, Available in 60Hz.



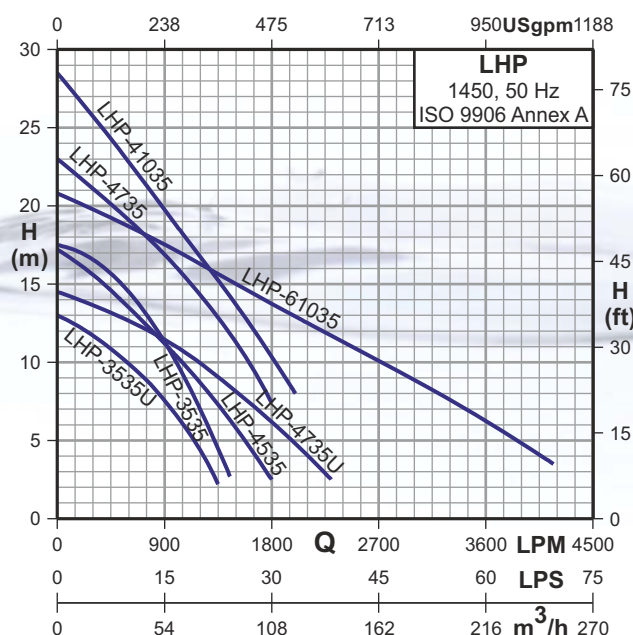
DIMENSIONS

Model	Phase	Disc. mm (Inch)	Impeller Type	Dimensions (mm)			Solid Passage (mm)	Net Weight (kg.)	Gross Weight (kg.)	Volume (m³)	Cable data cable x core x size (mm²) x length (m) x Material
				Length	Width	Height					
LHP-3535U2	3Ø	80 (3")	U	480	220	595	56	58.0	93.0	0.186	1 x 4 x 1.8 x 8 x PVC
LHP-3535	3Ø	80 (3")	P	580	310	650	50	82.0	127.0	0.288	1 x 4 x 1.8 x 8 x PVC
LHP-3535U	3Ø	80 (3")	U	552	286	695	76	80.0	125.0	0.275	1 x 4 x 1.8 x 8 x PVC
LHP-4535	3Ø	100 (4")	P	580	310	650	50	84.0	129.0	0.285	1 x 4 x 1.8 x 8 x PVC
LHP-4735	3Ø	100 (4")	E	701	404	810	40	146.0	206.0	0.475	1 x 4 x 6.0 x 8 x PVC + 1 x 1 x 0.75 x 8 x PVC
LHP-4735U	3Ø	100 (4")	U	701	404	810	65	143.0	203.0	0.475	1 x 4 x 6.0 x 8 x PVC + 1 x 1 x 0.75 x 8 x PVC
LHP-41035	3Ø	100 (4")	E	701	404	850	40	163.0	213.0	0.495	1 x 4 x 6.0 x 8 x PVC + 1 x 1 x 0.75 x 8 x PVC
LHP-61035	3Ø	150 (6")	E	850	472	905	70	230.0	317.0	0.663	1 x 4 x 6.0 x 8 x PVC + 1 x 1 x 0.75 x 8 x PVC

PERFORMANCE CHART AT n = 2900 RPM



PERFORMANCE CHART AT n = 1450 RPM



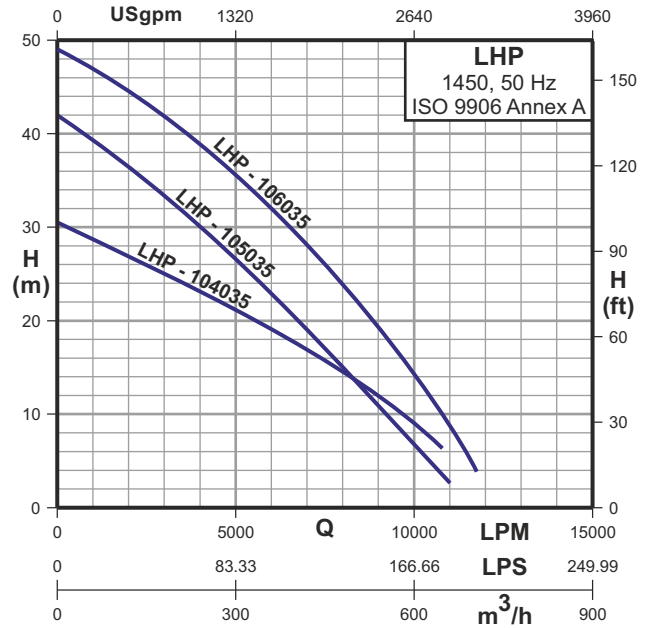
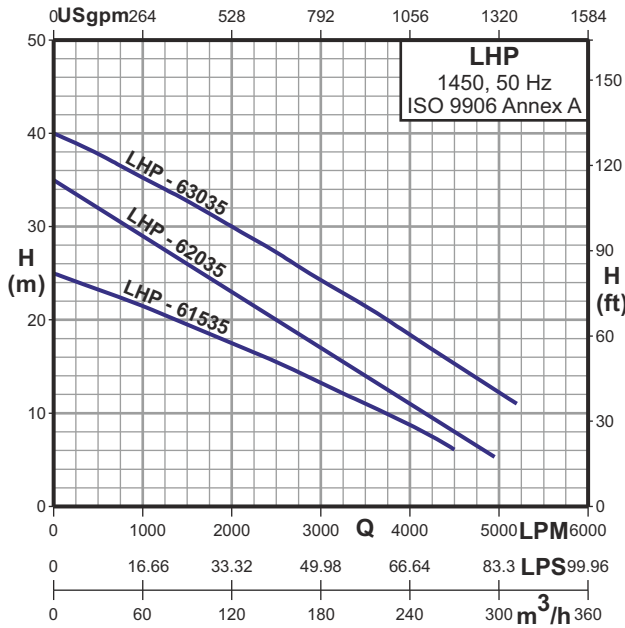
PERFORMANCE DATA AT n = 2900 RPM

Model	Phase	Power		Start Method	m³/h l/min.	6	12	18	24	30	36	42	48	54
		kW	HP			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

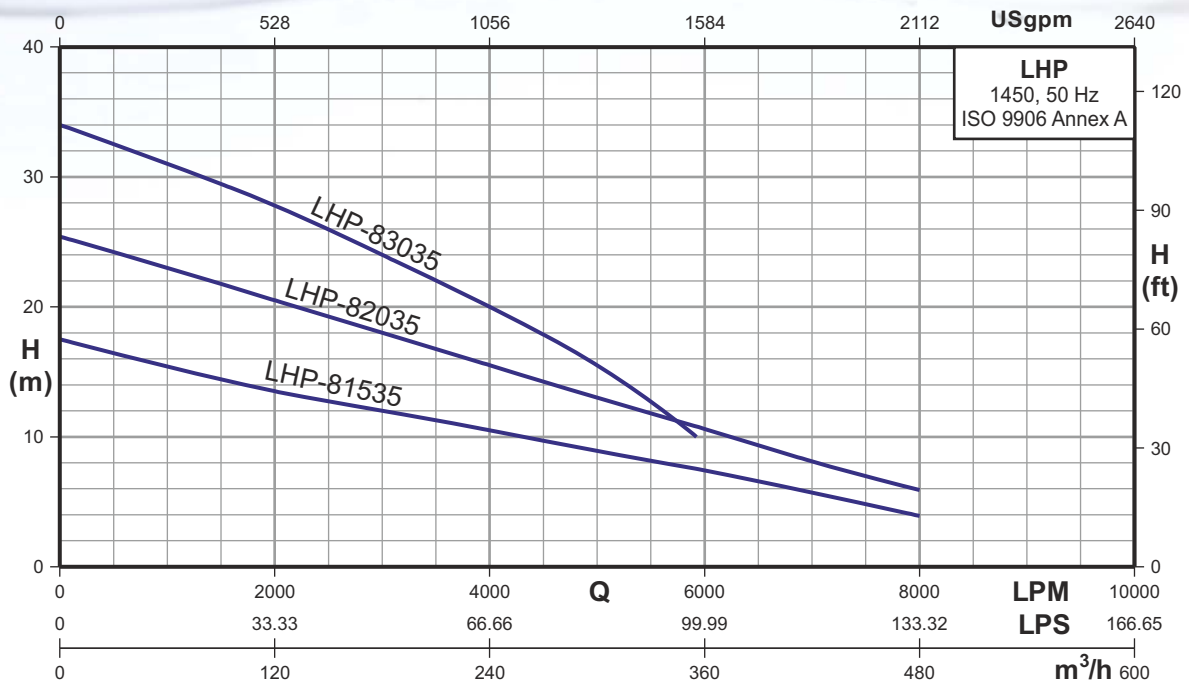
Model	Phase	Power		Start Method	m³/h l/min.	12	24	36	48	54	60	90	120	150	180	210	240	246
		kW	HP			200	400	600	800	900	1000	1500	2000	2500	3000	3500	4000	4100
LHP-3535	3Ø	3.7	5.0	Direct	H (m)	17	15.9	14.5	12.5	11.4	10	-	-	-	-	-	-	-
LHP-3535U	3Ø	3.7	5.0	Direct		12.3	11	9.9	8.5	7.5	6.3	-	-	-	-	-	-	-
LHP-4535	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		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

PERFORMANCE CHART AT n = 1450 RPM



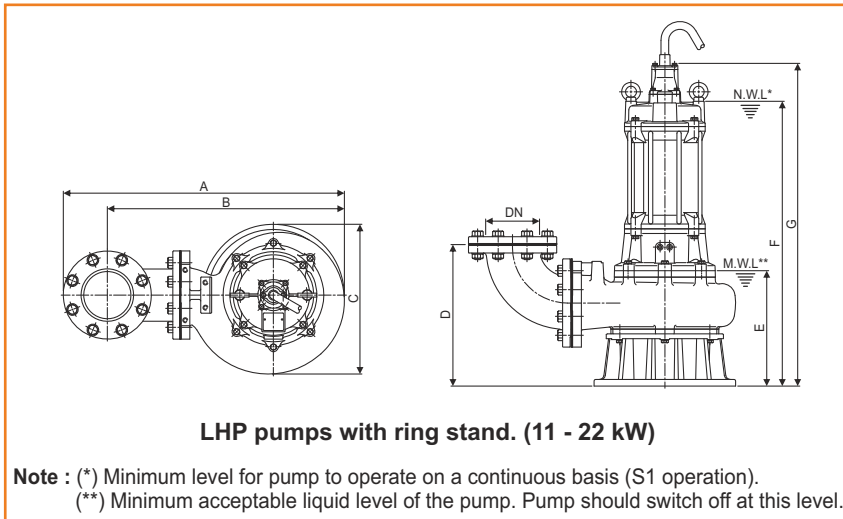
Model	Phase	Power		Start Method	m³/h	60	120	150	180	240	270	300	360	420	480	540	600	660
		kW	HP			1000	2000	2500	3000	4000	4500	5000	6000	7000	8000	9000	10000	11000
LHP-61535	3Ø	11.0	15.0	Y - Δ	H (m)	21.8	17.5	15.4	13	8.7	-	-	-	-	-	-	-	-
LHP-62035	3Ø	15.0	20.0	Y - Δ		29	23	20	17	11	8	-	-	-	-	-	-	-
LHP-63035	3Ø	22.0	30.0	Y - Δ		35.3	30	27.2	24.1	18.3	15.3	12	-	-	-	-	-	-
LHP-104035	3Ø	30.0	40.0	Y - Δ		29	27	26	25	23	22	21	19	17	15	12	9	-
LHP-105035	3Ø	37.0	50.0	Y - Δ		39.2	36.5	35	33.4	30.2	28.3	26.7	22.8	19	15.2	11	6.7	2.8
LHP-106035	3Ø	45.0	60.0	Y - Δ		47	44.6	43.2	41.9	38.8	37.3	35.5	32	28	23.7	19.2	14.1	8.7

PERFORMANCE CHART AT n = 1450 RPM



Model	Phase	Power		Start Method	m³/h	30	60	90	120	150	180	210	240	270	300	360	420	480
		kW	HP			500	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8000
LHP-81535	3Ø	11.0	15.0	Y - Δ	H (m)	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 - Δ		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 - Δ		32.6	31	29.4	27.9	26	24	22	20	17.9	15.5	10.6	8	5.9

Figure 1



DIMENSIONS Figure 1

Model	Disc. Inch	Dimensions mm							Solid Passage (mm)	Net Weight (kg.)	Gross Weight (kg.)	Volume (m ³)
Three Phase	(mm)	A	B	C	D	E	F	G				
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
LHP - 104035	10" (250)	1388	1186	640	740	552	1340	1395	60	765	949	2.211
LHP - 105035	10" (250)	1388	1186	640	740	552	1340	1395	60	770	954	2.211
LHP - 106035	10" (250)	1388	1186	640	740	552	1340	1395	60	795	979	2.211

Model	Cable data
LHP - 61535	1 x 7 x 6.0 x 8 x Thermoplastic Rubber 1 x 3 x 0.75 x 8 x Thermoplastic Rubber
LHP - 62035	1 x 7 x 6.0 x 8 x Thermoplastic Rubber 1 x 3 x 0.75 x 8 x Thermoplastic Rubber
LHP - 63035	2 x 4 x 8.0 x 8 x Thermoplastic Rubber 1 x 2 x 1.25 x 8 x Thermoplastic Rubber
LHP - 81535	1 x 7 x 6.0 x 8 x Thermoplastic Rubber 1 x 3 x 0.75 x 8 x Thermoplastic Rubber 1 x 7 x 6.0 x 8 x Thermoplastic Rubber
LHP - 82035	1 x 7 x 6.0 x 8 x Thermoplastic Rubber 1 x 3 x 0.75 x 8 x Thermoplastic Rubber

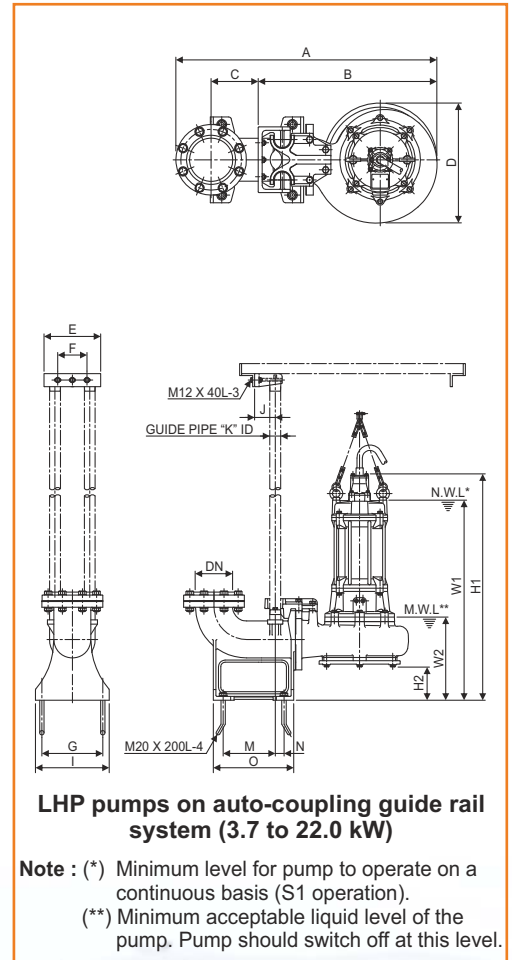
Model	Cable data
LHP - 83035	2 x 4 x 8.0 x 8 x Thermoplastic Rubber 1 x 2 x 1.25 x 8 x Thermoplastic Rubber
LHP - 104035	2 x 4 x 10.0 x 8 x Thermoplastic Rubber 1 x 2 x 1.25 x 8 x Thermoplastic Rubber
LHP - 105035	2 x 4 x 10.0 x 8 x Thermoplastic Rubber 1 x 2 x 1.25 x 8 x Thermoplastic Rubber
LHP - 106035	2 x 4 x 10.0 x 8 x Thermoplastic Rubber 1 x 2 x 1.25 x 8 x Thermoplastic Rubber

DIMENSIONS Figure 2

Model	Disc. Inch	Dimensions mm																
Three Phase	(mm)	A	B	C	D	E	F	G	I	J	K***	M	N	O	W1	W2	H1	H2
LHP - 3535U2	3" (80)	698	454	150	216	290	245	200	247	70	50	158	22	270	604	259	670	75
LHP - 3535	3" (80)	765	521	150	285	290	245	200	247	70	50	158	22	270	658	295	728	31
LHP - 3535U	3" (80)	765	521	150	285	290	245	200	247	70	50	158	22	270	658	295	728	31
LHP - 4535	4" (100)	812	536	170	315	290	245	200	247	70	50	178	22	285	650	260	718	75
LHP - 4735	4" (100)	905	630	170	385	290	245	200	247	70	50	178	22	285	695	295	791	124
LHP - 4735U	4" (100)	905	630	170	385	290	245	200	247	70	50	178	22	285	695	295	791	124
LHP - 41035	4" (100)	905	630	170	385	290	245	200	247	70	50	178	22	285	735	295	831	124
LHP - 61035	6" (150)	992	710	140	446	340	295	280	327	90	50	235	44	400	810	370	907	168
LHP - 61535	6" (150)	992	710	140	446	340	295	280	327	90	50	235	44	400	980	370	1070	168
LHP - 62035	6" (150)	1022	710	170	450	290	245	280	325	70	50	260	20	370	927	351	1015	22
LHP - 63035	6" (150)	1060	750	170	496	290	245	280	325	70	50	260	20	370	906	358	947	10
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)	1161	760	230	497	340	295	320	350	90	50	233	36	446	1008	397	1098	188
LHP - 83035	8" (200)	1280	885	230	510	320	280	280	350	100	40	200	80	370	891	361	960	36
LHP - 104035	10" (250)	1591	1118	270	624	420	350	360	460	110	65	310	74	560	1185	447	1225	198
LHP - 105035	10" (250)	1650	1176	270	640	420	350	360	460	110	65	310	74	560	1185	447	1225	195
LHP - 106035	10" (250)	1650	1176	270	640	420	350	360	460	110	65	310	74	560	1185	447	1225	195

*** Customer scope of supply as per actual site condition.

Figure 2



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

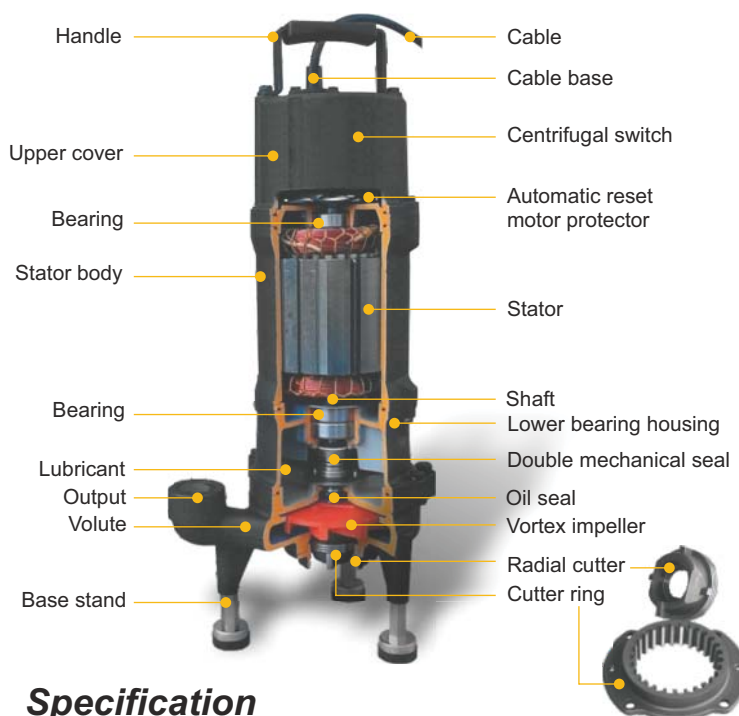
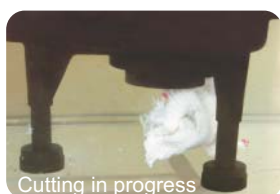
- ▶ Durable heavy duty finned cast iron construction.
- ▶ Grinder is complete unit, light weight, compact, and portable, easy to be installed.
- ▶ Double protection at connection box: barrier grommet, barrier epoxy, prevent water ingress to the motor area, assuring a longterm reliable operation. Additionally, 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

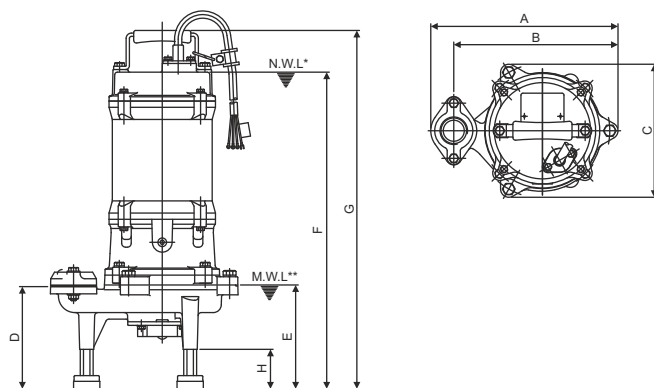
- ▶ Specialized one single strong shaft with impeller and radial cutter, dramatically reduces the torque requirement on the motor, cuts with less horsepower, and increases the pump's efficiency. What's more, it prevents clogging with some troublesome objects such as sanitary napkins, plastic, rubber, 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

Horse Power			2, 3, 5 HP
Pumping liquid	Ambient temp		Max. +50°C
	Liquid temp		0°C to +50°C
	Liquid nature		Suitable for pumping waste water of commercial buildings, hotels & restaurants, hospitals, industrial plants & kitchen waste.
Pump	Construction	Impeller	Vortex
		Cutting Cons.	Grinding
		Mech. seal	Double Mechanical seal
		Upper Bearing	Ball Bearing
		Lower Bearing	Two ball Bearings
	Material	Impeller	Grey Iron
		Volute	Grey Iron
		Radial Cutter	S.S AISI 440
		Cutter Ring	S.S AISI 440
		Mechanical seal	Motor side - Carbon v/s Ceramic Pump side - Silicon carbide v/s Silicon carbide
Motor	Type		Dry motor
	Insulation		F Class
	Frequency		50 Hz
	Thermal Protector		Automatic reset motor protector
			Water detector (optional)
	Material	Stator body	Grey Iron
		Shaft	S.S AISI 410
		Cable	PVC
Protection		IP 68	
Duty		S1 - When pump is completely submerged. S3 - When pump is partially submerged.	
Voltage		1 Ph. 230 V +5/-15%, 3 Ph. 400 V +5/-15%	





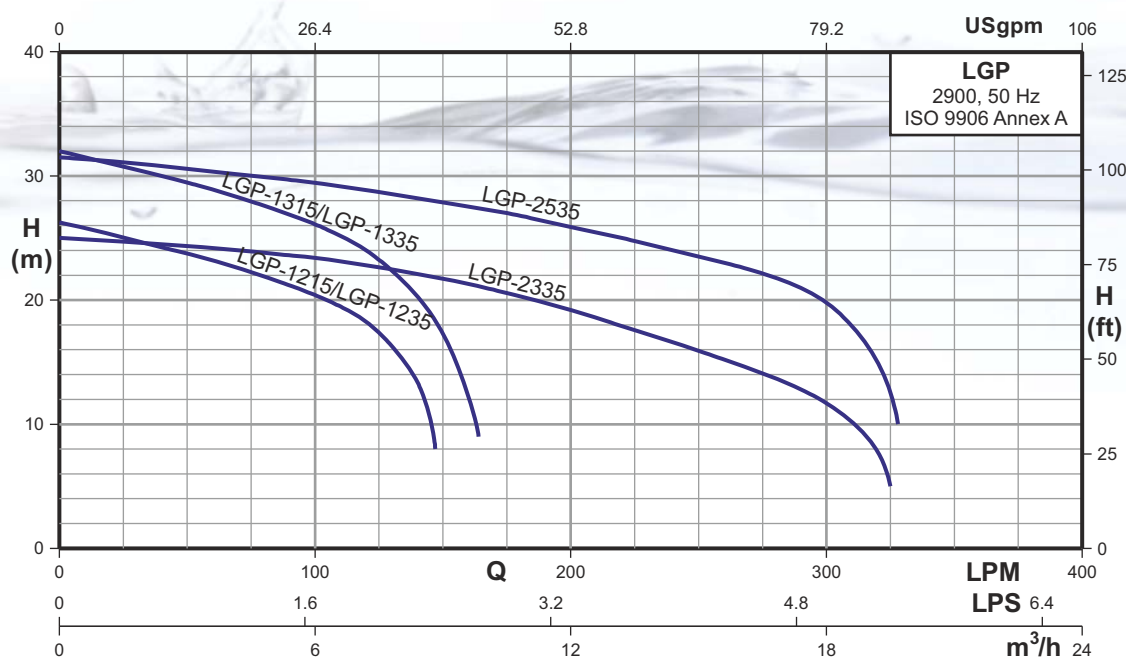
Note : (*) Minimum level for pump to operate on a continuous basis (S1 operation).
(**) Minimum acceptable liquid level of the pump. Pump should switch off at this level.

DIMENSIONS

Type	PHASE	DN	DIMENSIONS (MM)								NET WEIGHT (kg.)	GROSS WEIGHT (kg.)	VOLUME (m³)	CABLE DATA cable x core x size (mm²) x length (m) x Material
			A	B	C	D	E	F	G	H				
LGP-1215/1215F	1Ø	32	286	250	203	156	160	543	610	61	38.0	70.0	0.126	1 x 3 x 2.0 x 8 x PVC
LGP-1235/1235F	3Ø	32	286	250	203	156	160	492	556	61	34.0	64.0	0.117	1 x 4 x 1.8 x 8 x PVC
LGP-1315/1315F	1Ø	32	286	250	203	156	160	543	610	61	40.0	72.0	0.126	1 x 3 x 3.5 x 8 x PVC
LGP-1335/1335F	3Ø	32	286	250	203	156	160	492	556	61	36.0	66.0	0.117	1 x 4 x 1.8 x 8 x PVC
LGP-2335	3Ø	50	416	339	195	226	160	522	593	61	51.0	86.0	0.156	1 x 4 x 1.8 x 8 x PVC
LGP-2535	3Ø	50	416	339	195	226	160	543	616	61	54.0	89.0	0.161	1 x 4 x 1.8 x 8 x PVC

All Dimensions in mm

PERFORMANCE CHART AT n = 2900 RPM FOR GRINDER PUMPS



PERFORMANCE DATA AT n = 2900 RPM

Model	Phase	Power		Start Method	m³/h l/min.	1.5	3	4.5	6	7.5	9	12	15	18	19.5
		kW	HP			25	50	75	100	125	150	200	250	300	325
LGP-1215/1215F	1Ø	1.5	2.0	Capacitor	H(m)	25	23.9	22.2	20.5	17.3	-	-	-	-	-
LGP-1235/1235F	3Ø			Direct		30.8	29.4	28	26	23.2	17.2	-	-	-	-
LGP-1315/1315F	1Ø	2.2	3.0	Capacitor		24.6	24.4	24	23.7	22.8	21.7	19.1	16	11.7	5
LGP-1335/1335F	3Ø			Direct		31	30.6	30	29.5	29	28	25.9	23.5	19.9	12
LGP-2335	3Ø	2.2	3.0	Direct											
LGP-2535	3Ø	3.7	5.0	Direct											

Note : • Available on request : Other Voltages, 60Hz.
• Subscript "F" pumps will be provided with a float switch.

Performance Range

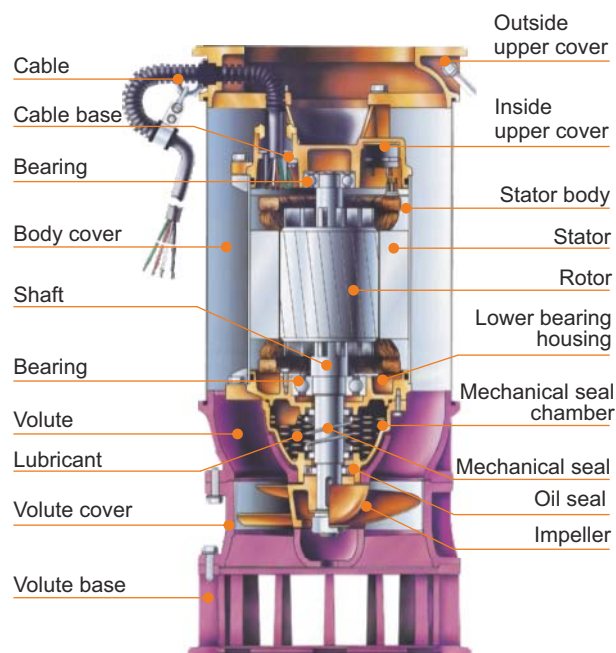
- Flow rate up to 9000 l/min. (540 m³/h)
- Dynamic head up to 6 m.

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

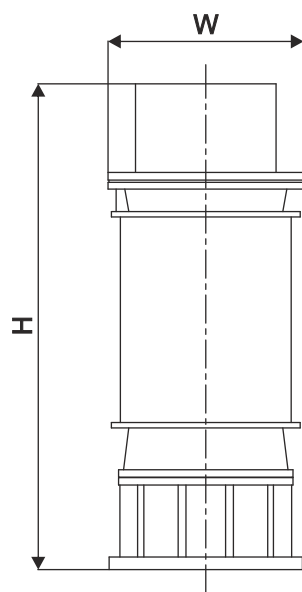


Specification

Pumping liquid	Diameter(mm)		200 - 250 - 300
	Ambient temp		Max. +50°C
	Liquid temp		0°C to +50°C
	Liquid nature		Suitable for aquaculture water pumping, flood control and water extraction from rivers, lakes and reservoir.
Pump	Structure	Impeller	Propeller / Mixed Flow
		M.seal	Double Mechanical seal
		Bearing	Ball type bearing
	Material	Impeller	Bronze
		Volute	Grey Iron
		Upper cover	Bronze
		M.seal	Carbon v/s Ceramic
Motor	Type		Dry motor
	Insulation		F Class
	Frequency		50 Hz
	Material	Stator body	S.S AISI 304
		Shaft	S.S AISI 304
		Cable	Thermoplastic Rubber/PVC
Protection		IP 68	
Duty		S1 - When pump is completely or partially submerged.	
Voltage		3 Ph. 400 V +5/-15%	

Direction of Rotation

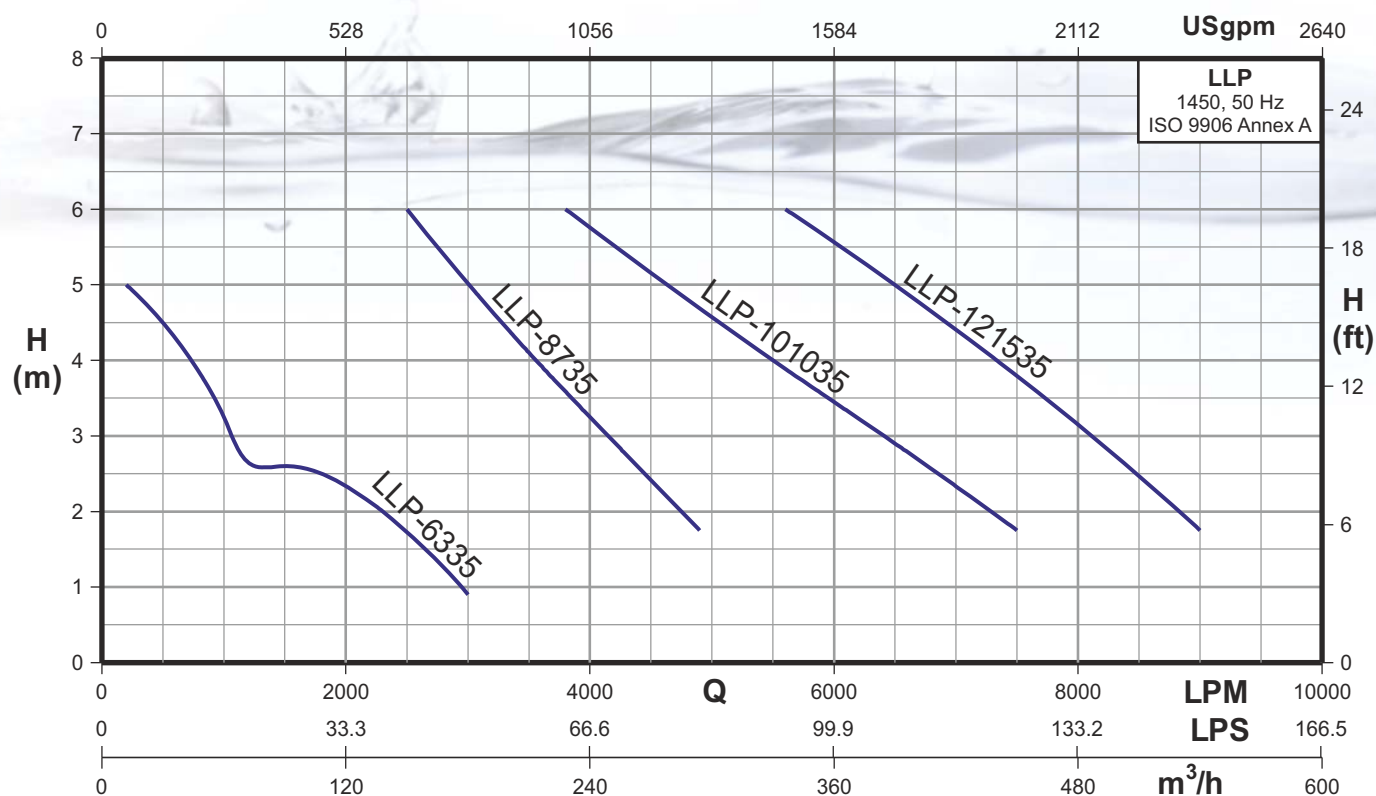
- Clockwise as seen from the motor rear end.



DIMENSIONS

Model	Disc. mm (Inch)	Dimensions (mm)			Solid Passage (mm)	Net Weight (kg.)	Gross Weight (kg.)	Volume (m ³)	Cable data cable x core x size (mm ²) x length (m) x Material
		Length	Width	Height					
LLP-6335	150 (6")	-	285	638	20	52.0	91.0	0.159	1 x 4 x 1.0 x 8 x PVC
LLP-8735	200 (8")	-	340	923	22	122.0	176.0	0.272	1 x 4 x 6.0 x 8 x PVC
LLP-101035	250 (10")	-	380	1015	22	164.0	228.0	0.344	1 x 4 x 6.0 x 8 x PVC
LLP-121535	300 (12")	-	430	1077	23	209.0	282.0	0.432	1 x 4 x 8.0 x 8 x Thermoplastic rubber

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



PERFORMANCE DATA AT n = 1450 RPM

MODEL	POWER		START METHOD	m ³ /h l/min	30	60	90	120	150	180	210	240	270	300	360	420	510
	kW	HP			500	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8500
LLP-6335	2.2	3.0	Direct	H (m)	4.5	3.2	2.6	2.3	2	-	-	-	-	-	-	-	-
LLP-8735	5.5	7.5	Direct		-	-	-	-	6	5	4.1	3.3	2.4	-	-	-	-
LLP-101035	7.5	10.0	Direct		-	-	-	-	-	-	-	5.8	5.2	4.6	3.4	2.5	-
LLP-121535	11.0	15.0	Direct		-	-	-	-	-	-	-	-	-	-	5.6	4.4	2.5

Performance Range

- Flow rate up to 2500 l/min. (150 m³/h)
- Dynamic head up to 38 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

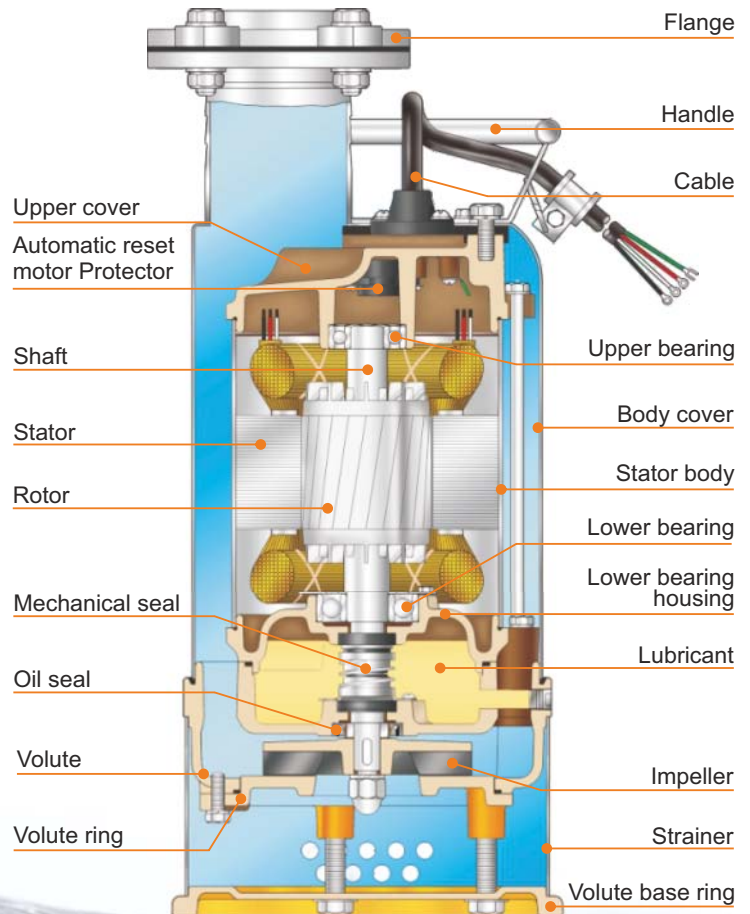
- The LAS impeller is manufactured with a high chrome alloy (HCR) steel with a hardness of 55 - 60 Rc., which makes it resistant to prolonged use in abrasive applications.



Protector



Impeller



Specification

HP			1.1 to 3.7 kW		5.5 to 7.5 kW	
Diameter (mm)			50 - 80		80	100 - 150
Pumping liquid	Ambient temp		Max. +50°C			
	Liquid temp		0°C to +50°C			
	Liquid nature		Suitable for dewatering at civil engineering sites and pumping of storm water.			
Pump	Structure	Impeller	Open		Open	Enclosed
		Mech. seal	Double Mechanical seal			
		Bearing	Ball type bearing			
	Material	Body cover	S.S. AISI 304			
		Upper cover	Grey Iron			
		Volute	Grey Iron			
		Impeller	HCR			
		Wear Ring	-	-	HCR	
	M. seal	Motor Side	Carbon v/s Ceramic			
		Pump Side	Silicon Carbide v/s Silicon Carbide			
Motor	Type		Dry motor			
	Insulation		F Class			
	Frequency		50 Hz			
	Thermal Protector		Automatic reset motor protector			
	Material	Stator body	S.S. AISI 304		Grey Iron	
		Shaft	S.S. AISI 410			
		Cable	Thermoplastic Rubber/PVC			
Protection		IP 68				
Duty		S1 - When pump is completely or partially submerged.				
Voltage		1 Ph. 230 v +5/-15%, 3 Ph. 400 v +5/-15%		3 Ph. 400 v +5/-15%		

Heavy-Duty Construction Drainage Pumps (15.0 to 20.0 HP)

Performance Range

- Flow rate up to 2600 l/min. (156 m³/h)
- Dynamic head up to 57 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 water detector 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.
- 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.

Miniature Thermal Protector

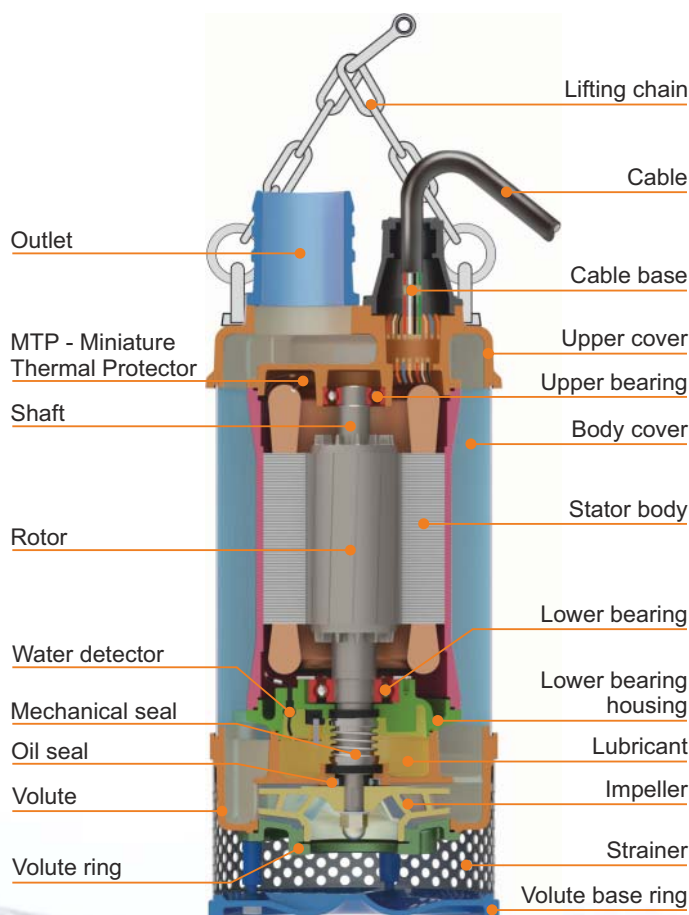
- Miniature Thermal Protector (MTP) is embedded in the windings of the motor. The MTP will transmit a signal to a control panel when windings temperature reaches a set point.

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.

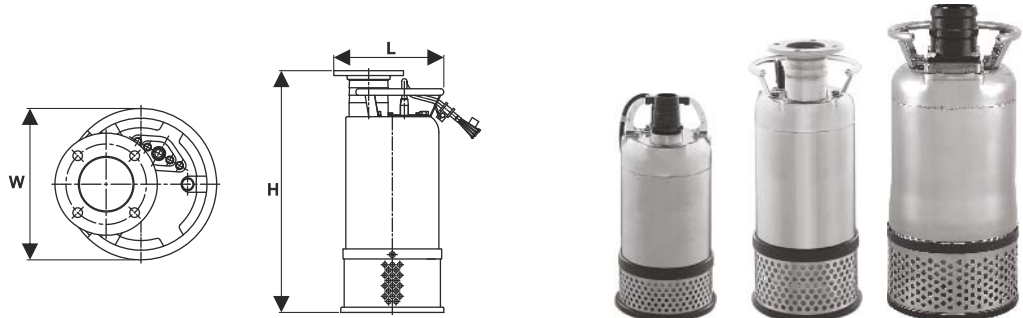


Impeller



Specification

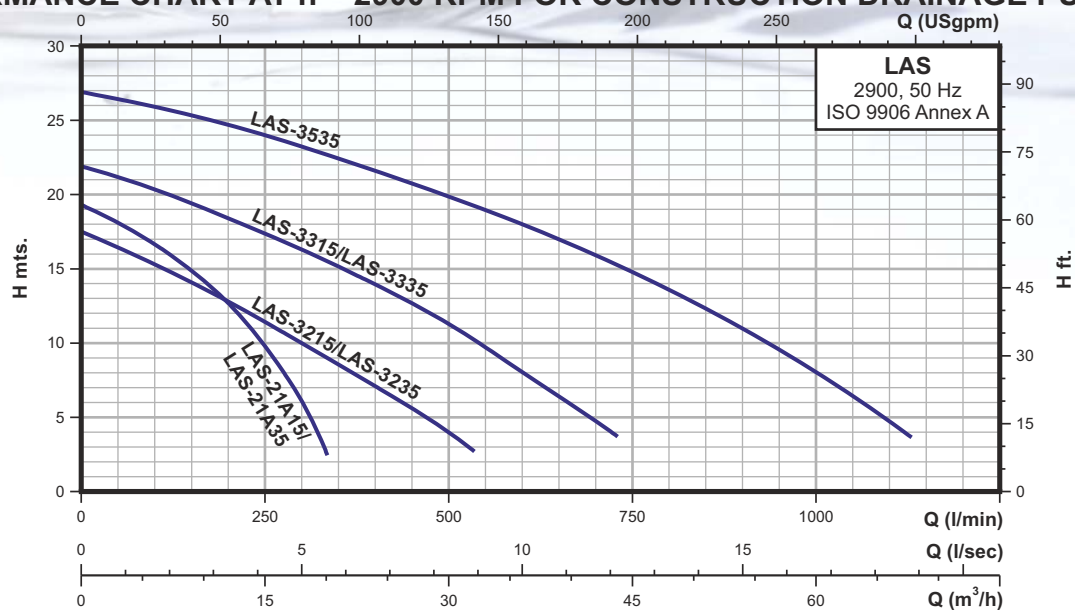
HP			11 to 15 kW
Diameter (mm)			100 - 150
Pumping liquid	Ambient temp		Max. +50°C
	Liquid temp		0°C to +50°C
	Liquid nature		Suitable for dewatering at civil engineering sites and pumping of storm water.
Pump	Structure	Impeller	Enclosed
		Mech. seal	Double Mechanical seal
		Water detector	Installed in the seal chamber to detect water leakage from water infiltrating
		Bearing	Ball type bearing
	Material	Body cover	S.S. AISI 304
		Upper cover	Grey Iron
		Volute	Grey Iron
		Impeller	HCR
		Wear Ring	HCR
	M. seal	Motor Side	Carbon v/s Ceramic
		Pump Side	Silicon Carbide v/s Silicon Carbide
Motor	Type		Dry motor
	Insulation		F Class
	Frequency		50 Hz
	Thermal Protector		Miniature Thermal Protector
	Material	Stator body	Grey Iron
		Shaft	S.S. AISI 410
		Cable	Thermoplastic Rubber/PVC
Protection		IP 68	
Duty		S1 - When pump is completely or partially submerged.	
Voltage		3 Ph. 400 v +5/-15%	



DIMENSIONS

Model		Disc. mm (Inch)	Dimensions (mm)			Solid Passage mm	Net Weight (kg.)	Gross Weight (kg.)	Volume (m ³)	Cable data cable x core x size (mm ²) x length (m) x Material
Single Phase	Three Phase		Length	Width	Height					
LAS 21A15/21A15F	-	50 (2")	210	210	510	8	29.0	49.0	0.077	1 x 3 x 1.0 x 5 x PVC
-	LAS 21A35/21A35F		210	210	435	8	25.0	45.0	0.068	1 x 4 x 1.0 x 5 x PVC
LAS 3215/3215F	-	80 (3")	250	240	630	11	43.0	68.0	0.111	1 x 3 x 2.0 x 8 x PVC
-	LAS 3235/3235F		250	240	535	11	39.0	64.0	0.097	1 x 4 x 1.8 x 8 x PVC
LAS 3315/3315F	-	80 (3")	250	240	645	11	47.0	72.0	0.113	1 x 3 x 3.5 x 8 x PVC
-	LAS 3335/3335F		250	240	560	11	42.0	67.0	0.101	1 x 4 x 1.8 x 8 x PVC
-	LAS 3535	80 (3")	250	240	600	11	46.0	71.0	0.107	1 x 4 x 1.8 x 8 x PVC
-	LAS 3735	80 (3")	290	290	690	10	74.0	102.0	0.150	1 x 4 x 3.5 x 8 x PVC
-	LAS 4735	100 (4")	290	290	690	10	76.0	104.0	0.150	1 x 4 x 3.5 x 8 x PVC
-	LAS 6735	150 (6")	290	290	745	10	78.0	106.0	0.160	1 x 4 x 3.5 x 8 x PVC
-	LAS 41035	100 (4")	290	290	690	10	76.0	104.0	0.150	1 x 4 x 3.5 x 8 x PVC
-	LAS 61035	150 (6")	290	290	745	10	80.0	108.0	0.160	1 x 4 x 3.5 x 8 x PVC
-	LAS 41535	100 (4")	290	290	725	10	82.0	112.0	0.170	1 x 7 x 6.0 x 8 x Thermoplastic rubber 1 x 3 x 0.75 x 8 x Thermoplastic rubber
-	LAS 61535	150 (6")	290	290	785	10	86.0	116.0	0.180	1 x 7 x 6.0 x 8 x Thermoplastic rubber 1 x 3 x 0.75 x 8 x Thermoplastic rubber
-	LAS 42035	100 (4")	332	332	770	10	142.0	185.0	0.200	1 x 7 x 6.0 x 8 x Thermoplastic rubber 1 x 3 x 0.75 x 8 x Thermoplastic rubber

PERFORMANCE CHART AT n = 2900 RPM FOR CONSTRUCTION DRAINAGE PUMP



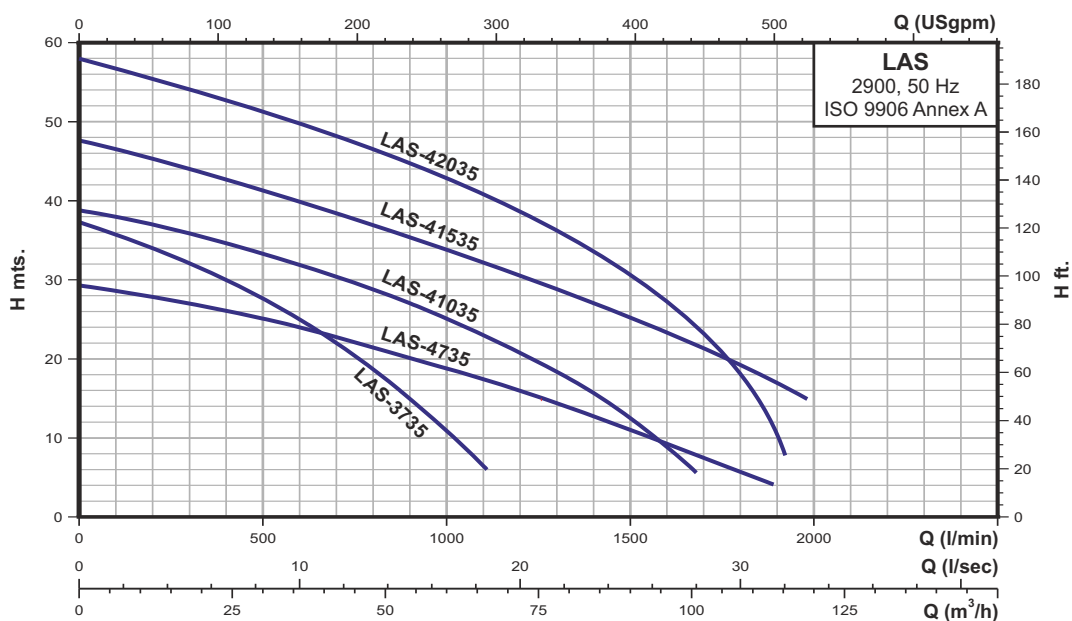
PERFORMANCE DATA AT n = 2900 RPM

Model		Power		Start Method	m³/h l/min	6	12	18	24	30	36	42	48	60	66
Single Phase	Three Phase	kW	HP			100	200	300	400	500	600	700	800	1000	1100
LAS 21A15/21A15F	-	1.1	1.5	Capacitor	H m	16.5	12.5	6	-	-	-	-	-	-	-
-	LAS 21A35/21A35F			Direct											
LAS 3215/3215F	-	1.5	2.0	Capacitor											
-	LAS 3235/3235F			Direct											
LAS 3315/3315F	-	2.2	3.0	Capacitor											
-	LAS 3335/3335F			Direct											
-	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.

LAS Heavy-Duty Construction Drainage Pumps (7.5 HP to 20.0 HP)

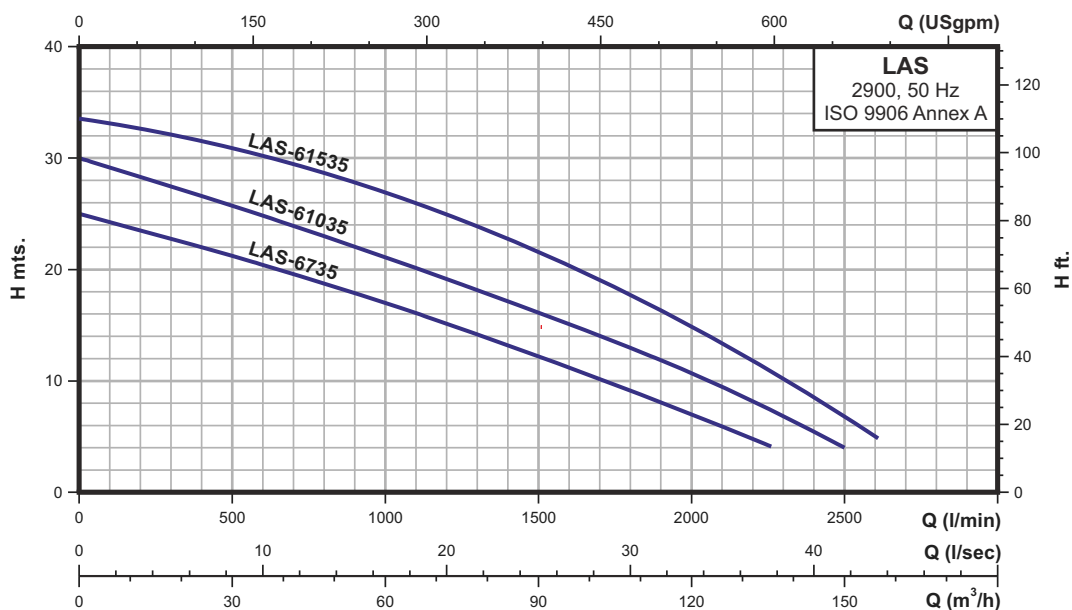
PERFORMANCE CHART AT n = 2900 RPM FOR CONSTRUCTION DRAINAGE PUMP



PERFORMANCE DATA AT n = 2900 RPM

Model	Power		Start Method	m³/h	12	18	24	30	36	48	54	60	66	72	84	96	108
Three Phase	kW	HP		l/min	200	300	400	500	600	800	900	1000	1100	1200	1400	1600	1800
LAS 3735	5.5	7.5	Direct	H m	34.0	32.0	30.0	27.5	25.0	18.6	15.0	11.0	6.2	-	-	-	-
LAS 4735			Direct		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		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	Y - Δ		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
LAS 42035	15.0	20.0	Y - Δ		55.5	54.0	52.8	51.2	50.0	46.5	44.8	42.8	40.8	38.6	33.7	27.0	8.0

PERFORMANCE CHART AT n = 2900 RPM FOR CONSTRUCTION DRAINAGE PUMP



PERFORMANCE DATA AT n = 2900 RPM

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

LUBI INDUSTRIES LLP

Near Kalyan Mills, Naroda Road, Ahmedabad-380 025, INDIA.
Phone : +91 - 79 - 30610100, Fax No. :+91 - 79 - 30610300.

Sales Enquiries: mktsales@lubipumps.com, expsales@lubipumps.com

www.lubipumps.com

Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

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