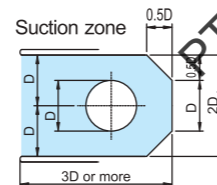




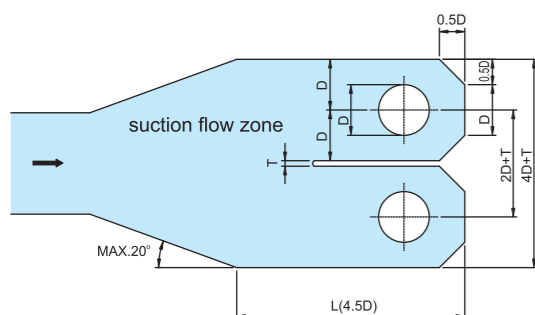
SUCTION FLOW ZONE DESIGN REFERENCE FOR SUBMERSIBLE AXIAL PUMP

Several problems might arise if the insufficient shape and dimensions of the suction flow zone are decided at the design stage and from the hydro-dynamical point of view. Problems such as: eddy current of the surface water, air mixing with the water, heavy turbulence of water flow and the formation of stagnant water. In order to prevent or to reduce these causes, there are several things that need to be considered:

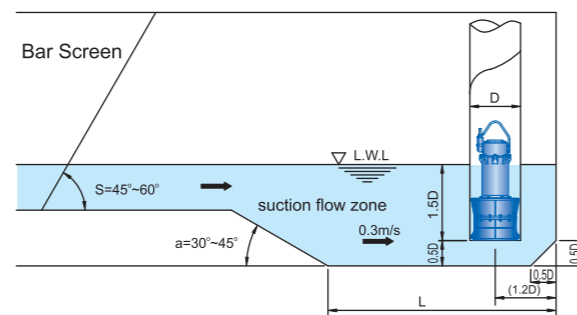
- The liquid of suction flow speed should be kept constant (flow speed 0.3~0.5m/s).
- Suction flow zone of water depth and floor slop variation of slope angle should be 30°~45°.
- Suction flow zone should fill up with concrete.
- In two pump operations, eddy current protection wall must be installed in the suction zone.
- In a two pump operation, any sudden obstacles at the suction flow zone must be avoided and maximum divergent angle must not exceed 20°.



In case of one pump operation



In case of two pump operation



Equipped with a protection device against eddy current

Distributor:



Innovation • Professionalism • Service

HCP PUMP MANUFACTURER CO., LTD.

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LA **50Hz & 60Hz**
SERIES
SUBMERSIBLE AXIAL PUMP

LA

LA-2250/2260
(Well type)

LA-2250/2260
(Stand type)

LA-2875/28100
(Well type)

LA-2875/28100
(Stand type)

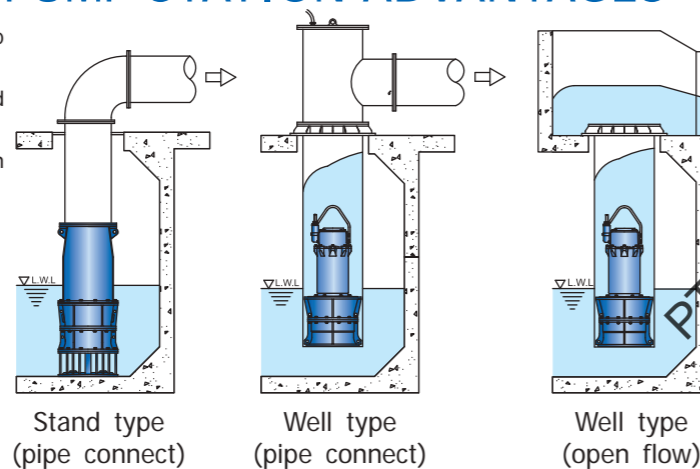
FEATURE

- High efficiency motor connects directly to the impeller for the best energy savings.
- Strong material and construction, double mechanical seal, epoxy resin cable entry, IP68 waterproof.
- Shaft and impeller has been precisely balanced for a quiet and long life performance.
- Standard protection is miniature thermal protector and mechanical seal leakage detector. Optional protection devices available.
- The 3D computerized impeller and vanes conductive design, creates a higher pump efficiency.
- Sacrificial Anode : Sacrificial Anodes are highly active metals that are used to prevent a less active material surface from corroding. Sacrificial Anode reduces the rusting corrosion in sea water and increase the lifetime of the pump.



SUBMERSIBLE AXIAL PUMP STATION ADVANTAGES

- Sample design and construction for pump station.
- Frugal space makes it easier for installing and maintaining.
- Reduced expense in the pump station construction and installation.

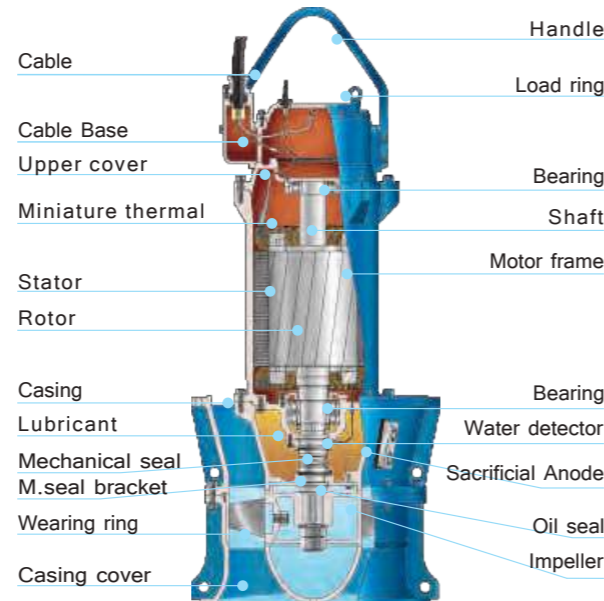


APPLICATIONS

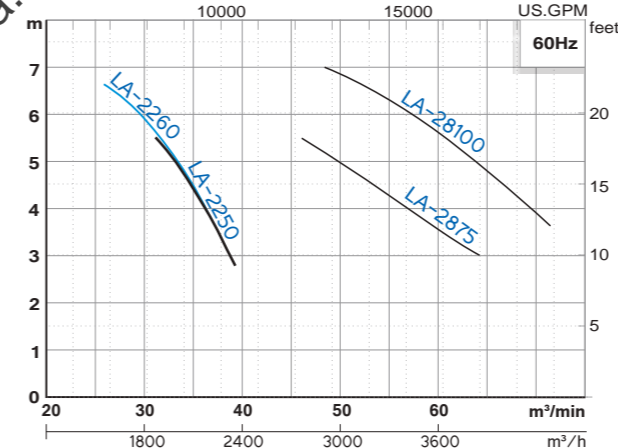
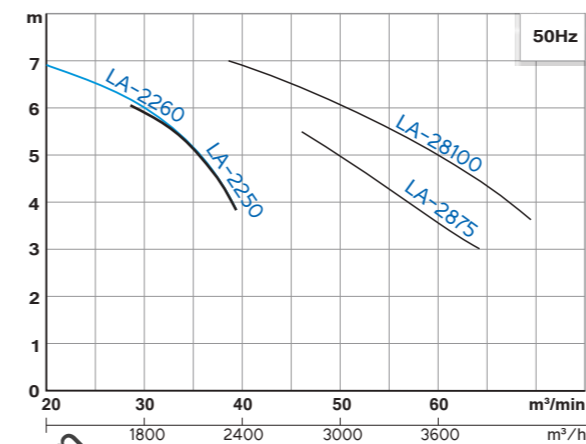
- Water supply or drainage for industrial.
- Water supply for cooling in the power plant.
- Used for large volume dewatering.
- Large scale aquaculture farming.
- Flooding Control.
- Others: Extraction of water from dock and river.

PROTECTOR DESCRIPTION (Optional)

- The Miniature Thermal Sesnsor (MTS) is mounted on the motor winding. The MTS sends a signal to the control box when the motor overheats. Consequently, the power supply is cut off, which prevents the pump from overload, overheating, etc.
- The Moisture Sensor (MS) is installed in the mechanical seal chamber, motor housing (optional) and the wiring chamber (optional). The MS detects moisture and sends a signal to the control box to prevent the pump from water leakage.
- The Bearing Thermal Sensor (BTS) is installed around the bearing. The BTS sends a signal to the control box when the bearing overheats to prevent the pump from overload, due to a damaged bearing.



PERFORMANCE CURVES



PRODUCT NOMENCLATURE

LA	—	22	50
Type		Discharge inch	HP

SPECIFICATIONS

Discharge (mm)		550 ~ 700
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Wastewater • Industry drainage • Agriculture irrigation • Aquaculture water
Type	Frequency	50Hz/60Hz
	Motor	50Hz/8P (750RPM: LA2250/2260) • 50Hz/10P (600RPM: LA2875/28100) • 60Hz/10P (720RPM: LA2250/2260) • 60Hz/12P (600RPM: LA2875/28100) • Dry Motor
	Insulation	Class F (155°C)
	Protection	IP68
	Protector	MTS (Miniature Thermal Sensor) • MS (Moisture Sensor)
	Bearing	Ball Type
Material	M.seal	Double M.seals
	Impeller	Axial
	Upper Cover	FC-200
	Motor Frame	FC-200
	Shaft End	SUS420J2
	M.seal	SiC/SiC & SiC/SiC
	Casing	FC-200
	Impeller	SCS13
	Cable	3PNCT/2PNCT or H07RN-F
	Wearing ring	SCS13 • SUS304 • ALBC3
Base stand / Outer cover		SS400 (Stand type)
Optional		Discharge and flange can be made to custom specification.

PERFORMANCE SPEC.

Note: Weight Without Cable & Elbow Set.

50Hz	Model	Output HP(kW)	Discharge Inch (mm)	Phase Ø	Start Method	Head m	Capacity		Well type		Stand type	
							m³/min	m³/h	Dimension mm		Dimension mm	
									A	B	A	B
60Hz	LA-2250	50 (37)	22"~24" (550~600)	3	Y-△	4	38	2280	825	1380	755	825
	LA-2260	60 (45)	22" (550)	3	Y-△	6	31	1860	825	1380	755	825
	LA-2875	75 (55)	28" (700)	3	Y-△	3.5	60	3600	870	2150	1530	870
	LA-28100	100 (75)	28" (700)	3	Y-△	5	60	3600	870	2150	1600	870
60Hz	Model	Output HP(kW)	Discharge Inch (mm)	Phase Ø	Start Method	Head m	Standard		Well type		Stand type	
							m-m³/min	ft/GPM	Dimension mm		Dimension mm	
									A	B	A	B
60Hz	LA-2250	50 (37)	22"~24" (550~600)	3	Y-△	4-36	13-9510		825	1380	755 (1665)	825
	LA-2260	60 (45)	22" (550)	3	Y-△	6-28	20-7400		825	1380	755 (1665)	825
	LA-2875	75 (55)	28" (700)	3	Y-△	3.5-60	11-15850		870	2150	1530 (3373)	870
	LA-28100	100 (75)	28" (700)	3	Y-△	5-60	16-15850		870	2150	1600 (3527)	870

