LA

SUBMERSIBLE
AXIAL FLOW PUMPS

50Hz & 60Hz

make future flow

FEATURES

- 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.

Well type | Stand type | Well type | Stand type

SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	50Hz 8P(750rpm)/10P(600rpm) • Dry Motor 60Hz 10P(720rpm)/12P(600rpm) • Dry Motor
Insulation	Class H
Protection	IP68
Protector	MTS • MS
M.seal Type	Double M.seals
Impeller Type	Axial
Item	**Material**
Upper Cover	FC200 / GG-20 / ASTM-30
Motor Frame	FC200 / GG-20 / ASTM-30
Shaft End	SUS420J2 / X30Cr13 / ASTM 420 F
M.seal	SiC/SiC & SiC/SiC
Casing	FC200 / GG-20 / ASTM-30
Impeller	SCS14 / G-X6CrNiMo1810 / A744 CF-8M
Cable	VCT or PNCT or H07RN-F
Wearing ring	SCS13 / G-X6CrNiMo18-9 / A744 CF-8 • ALBC3 / G-A110Ni / C95800
Footing / Outer cover	SS400 / ST-44-2 / A36 (Stand type)

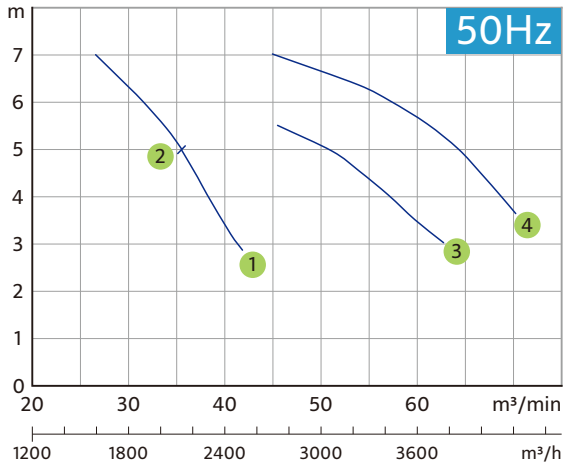
PRODUCT NOMENCLATURE

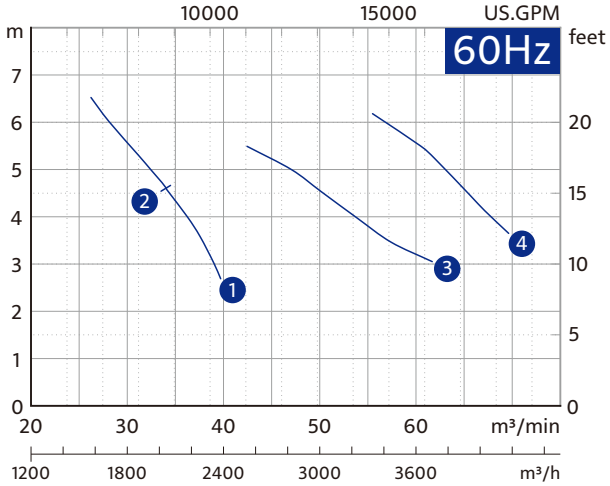
LA	—	22	50
Type		Discharge inch	HP

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

PERFORMANCE CURVES AND SPECS





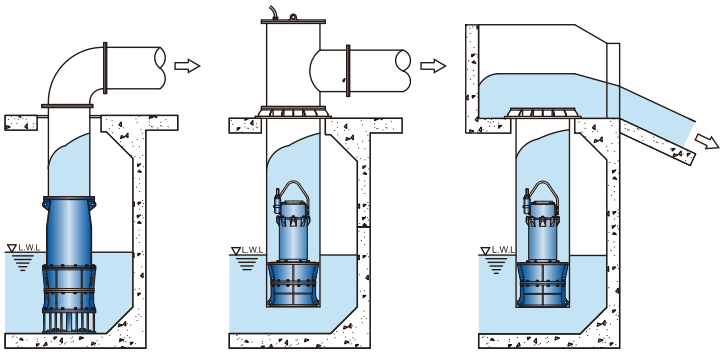
	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard	Weight kg	
							m-m³/min	Well type	Stand type
50Hz	1 LA-2250	50(37)	22" (550)	3	Y-D / DOL	4	38	755	1130
	2 LA-2260	60(45)	22" (550)	3	Y-D / DOL	6	31	755	1130
	3 LA-2875	75(55)	28" (700)	3	Y-D / DOL	3.5	60	1530	2060
	4 LA-28100	100(75)	28" (700)	3	Y-D / DOL	5	60	1600	2130

	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Weight kg(lb)	
						ft-GPM	Well type	Stand type
60Hz	1 LA-2250	50(37)	22" (550)	3	Y-D / DOL	13-9510	755(1664)	1130(2491)
	2 LA-2260	60(45)	22" (550)	3	Y-D / DOL	20-7400	755(1664)	1130(2491)
	3 LA-2875	75(55)	28" (700)	3	Y-D / DOL	12-15850	1530(3373)	2060(4543)
	4 LA-28100	100(75)	28" (700)	3	Y-D / DOL	16-15850	1600(3527)	2130(4696)

※ The listed weight is not including cable and discharge. ※ Start Method : Y-D = STAR-DELTA

SUBMERSIBLE AXIAL FLOW PUMPS 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



Stand type (pipe connect) | Well type (pipe connect) | Well type (open flow)

PROTECTOR DESCRIPTION (Optional)

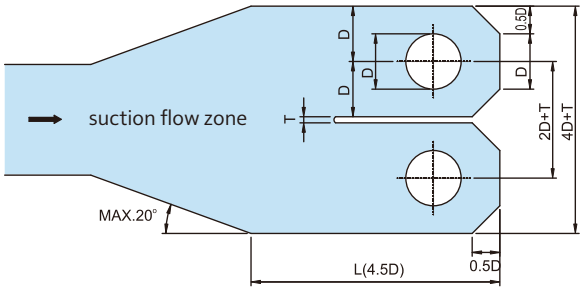
- The Miniature Thermal Sesnsor (MTS) is mounted on the motor winding. The MTS sends a signal to the control box when the motor overheats.

  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.

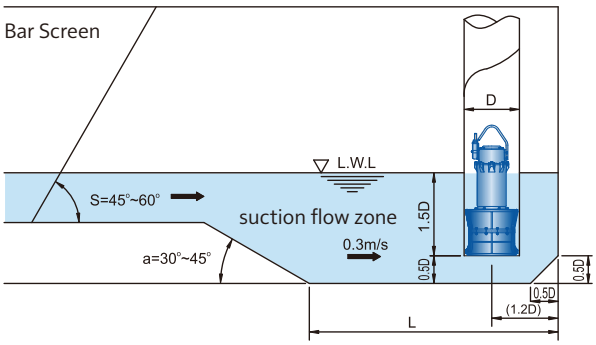
SUCTION FLOW ZONE DESIGN REFERENCE FOR SUBMERSIBLE AXIAL FLOW PUMPS

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:

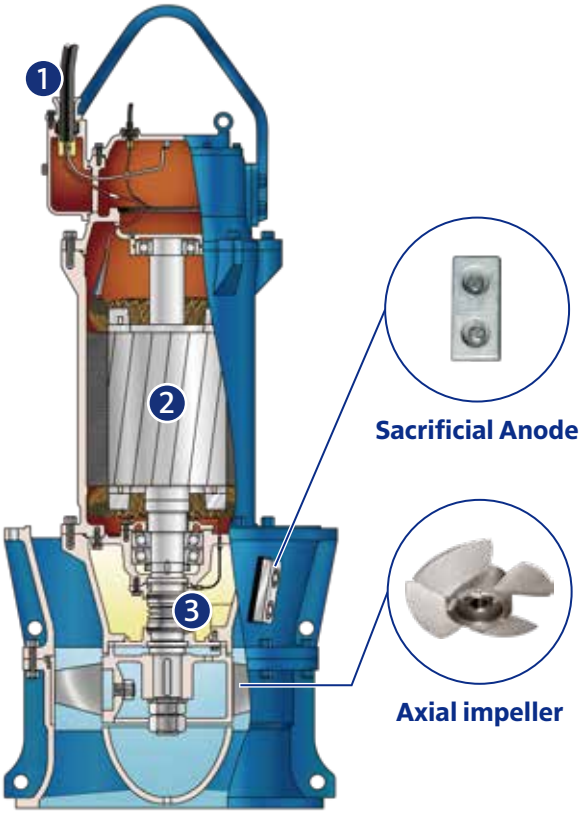
- The liquid of suction flow speed should be kept constant (flow speed 0.3~0.5m/s).
- Suction flow zone of water depth and floor slop variation of slope angle should be 30°~45°.
- Suction flow zone should fill up with concrete.
- In two pump operations, eddy current protection wall must be installed 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 two pump operation



Equipped with a protection device against eddy current



PRODUCT FEATURES

1 Epoxy Cable Base

An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.

2 High Efficiency Dry Motors

All stator coils are treated with insulating vanish procedures to achieve the best insulation, efficiency and durability.

3 Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.

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