




**ACCESSORIES :**


**Adapter / Check Valve**

IC series' strainer and base can be removed and equipped with Adapter or Check Valve instead. And thus IC Series can be installed on land.


**PRODUCT FEATURES**




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


**Auto-cut Protector**  
Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. (There's no autocut for Pump above L-200A.)



**Mechanical Seals**  
Double mechanical seal have two waterproof sliding surface and provide best seal effect. Silicon carbide / Silicon carbide which is abrasion resistance and could be operation for long-term (it's optional from L-200A to L-1220B).



**Food Grade Lubricant**  
High level of medical & food grade white mineral oil; it's harmless to creatures and environment. It's harmless to plant for agriculture and fishes/shrimps for aquaculture. Meanwhile, it can meet the demand of high quality safety purpose.



**High Efficiency Dry Motors**  
All stator coils need to be treated with insulating varnish procedure to achieving the best insulation, efficiency and durability.



**IC/L** 60Hz **SERIES**

**Submersible Dewatering Pumps  
Large Volume Submersible Pumps**

**HCP** Professionalism · Innovation · Service · Commitment  
**HCP PUMP MANUFACTURER CO., LTD.**  
[www.hcppump.com](http://www.hcppump.com)



Distributor:

DICLEN6-2001

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**IC** IC-215 IC-32B~46B IC(W-Well Type) IC-48~610

## FEATURES

- The internal casting is treated with High solids Epoxy coating, which can improve the anti-corrosion and extend the product lifetime.
- Standard design, incorporating a dry motor with thermal Auto-cut Protector that prevents the motor from over heating. Equipped with a cast iron motor frame for a faster heat dissipation. As well as an abrasion resistant mechanical seal and an additional oil seal.
- Water cooled motor to ensure a long life in continuous and intermittent operation, with high efficiency and energy savings.
- An exceptional High-lift and suction impeller design, which allows for dewatering of underground or circulating water applications.
- For above or below surface water applications; the IC pump strainer can be easily removed and replaced with a check valve, which allows for dewatering up to max. 8m deep of underground water and water circulation applications. (W-Well Type)
- New casing cover, with metric thread bolt hole that is easier for valve and adapter connection.
- The chrome steel impeller has been adopted for IC-32B~610, with hardness of HRC 25~30; better anti-corrosion, and extended product lifetime.
- High solids Epoxy coating prolong metals from corrosion and oxidation

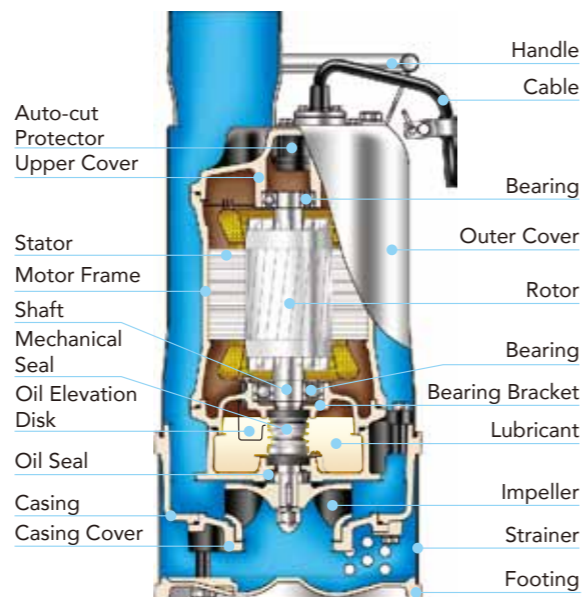


## APPLICATIONS

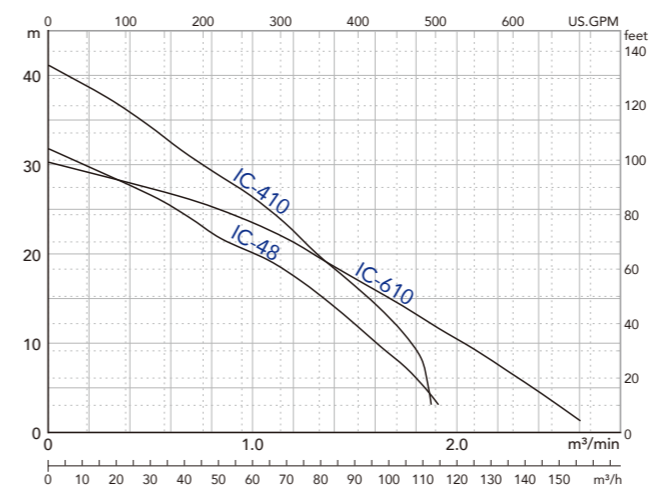
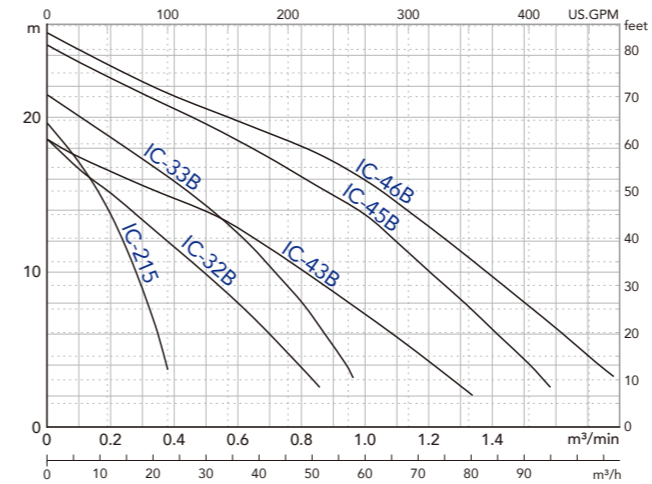
- Aquiculture water supply and drainage.
- Water supply for agricultural irrigation systems and underground water pumping.
- Landscape, water feature and horticulture irrigation.
- Extraction of water from rivers, lakes and reservoirs.

## PRODUCT NOMENCLATURE

IC	—	3	2	B
Type	—	Discharge inch	HP	Style



## PERFORMANCE CURVES



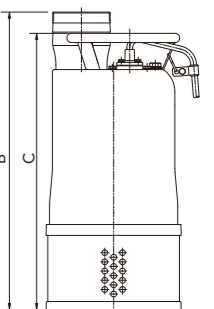
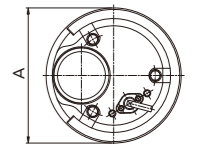
## SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Agriculture irrigation • Circulating water • Dewatering
Type	Frequency 60Hz
	Motor 2P (3600rpm) • Dry Motor
	Insulation Class F (1.5~6HP) • Class F (7.5~10HP)
	Protection IP68
	Protector Auto-cut
	Bearing Ball type
	M.seal Double M.seals
Material	Impeller Close
	Outer Cover SUS304
	Upper Cover FC200
	Motor Frame SUS304 (1.5HP) • FC200 (2~10HP)
	Shaft SUS403 (1.5~3HP) • SUS304 (5~10HP)
	M.seal CA/CE & SiC/SiC
	Casing FC200
Impeller BC (1.5HP) • Chrome Steel (2~10HP)	
Optional	Cable VCT or H07RN-F or SJOW/SOW
	Pumps can be customized to fit specifications

## PERFORMANCE SPECS.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimensions mm				
					m-m³/min	ft-GPM		1Ø	3Ø	A	B	C	1Ø	3Ø
IC-215	1.5(1.1)	2"(50)	1/3	Capacitor Direct	13.5-0.2	44-52	3.5(1/8")	28(62)	24(53)	210	431	372	482	423
IC-32B	2(1.5)	3"(80)	1/3	Capacitor Direct	9.5-0.5	31-132	10(3/8")	40(88)	36(79)	235	548	503	511	466
IC-33B	3(2.2)	3"(80)	1/3	Capacitor Direct	14-0.5	46-132	10(3/8")	44(97)	39(86)	235	578	503	541	466
IC-43B	3(2.2)	3"(80) - 3.5"(90) 4"(100)	1/3	Capacitor Direct	10-0.8	33-212	10(3/8")	44(97)	39(86)	235	593	518	556	481
IC-45B	5(3.7)	3.5"(90) 4"(100)	3	Direct	13-1.0	43-265	10(3/8")	-	44(97)	235	-	548	-	511
IC-46B	6(4.5)	3.5"(90) 4"(100)	3	Direct	15.5-1.0	51-265	10(3/8")	-	44(97)	235	-	548	-	511
IC-48	7.5(5.5)	4"(100)	3	Direct	20-1.0	66-265	10(3/8")	-	71(157)	286	-	550	-	610
IC-410	10(7.5)	4"(100)	3	Direct	26-1.0	85-265	10(3/8")	-	79(174)	286	-	550	-	610
IC-610	10(7.5)	6"(150)	3	Direct	17-1.5	56-395	10(3/8")	-	81(179)	286	-	550	-	610

Note: Weight Without Cable & Outlet, \*3.5" (90mm) optional by request.



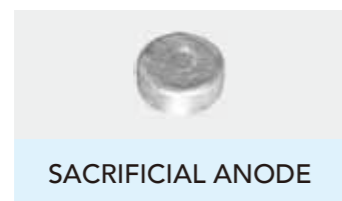


## FEATURES

- Large flow capacities achieved with almost no vibration, or noise, by use of the axial and mix flow design.
- HIGH-QUALITY BRONZE** : Widely acclaimed for its ability to withstand corrosion, even to the erosion of sea water and brine and is proved to be able to substantially extend time to service, used on the Upper Cover, Bearing Bracket, & M. Seal Bracket of our pumps. (L-200A/250A/300B only)
- POWER-SAVING & HIGH-EFFICIENCY ALBC3 (Aluminum Bronze) IMPELLER** : Utilizes wear-resistant and anti-corrosion ALBC3 (Aluminum Bronze) Impeller, the same material as the propellers of boats and vessels.
- Robust construction and compact design with a dry motor, double mechanical seals and impeller flow guide vane for high efficiency.
- Pump manufactured with heavy duty housing, cable leads are isolated by hardened epoxy for water proofing, and double mechanical seals.
- High solids, epoxy coating prolongs metals from corrosion and oxidization.
- L Series are equipped with Sacrificial Anode. Sacrificial Anode are create from a metal alloy with a more negative electrochemical potential. Sacrificial Anode are highly active metals, that are used to prevent pump material surface from corroding.

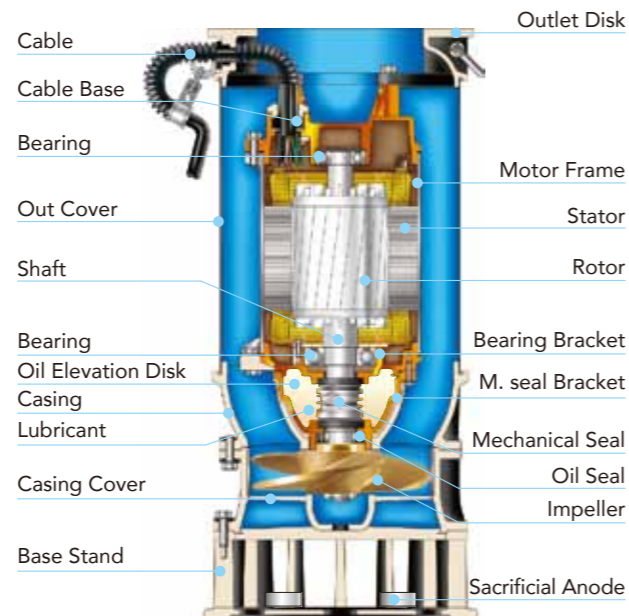
## APPLICATIONS

- Aquiculture water pumping and drainage, for large volume water applications.
- Water supply for landscape, water features, cooling in the power plant or drainage for industry.
- Water extraction from rivers, lakes and reservoirs.
- Flood control or used for large volume dewatering.
- Others : Extraction of water from dock and river.

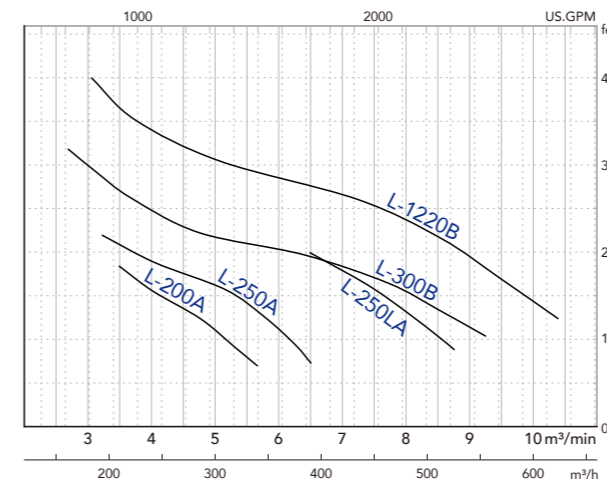
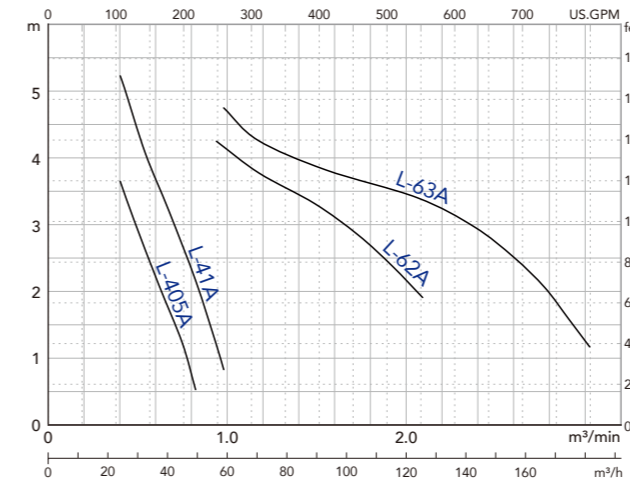


## PRODUCT NOMENCLATURE

L	4	1	A
Type	Discharge inch	HP	Style
L	200	A	
Type	Discharge inch	Style	



## PERFORMANCE CURVES



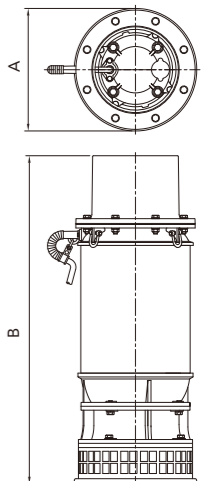
## SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Agriculture irrigation • Agriculture water • River water
Type	Frequency 60Hz
	Motor 2P (3600rpm:0.5~1HP) • Dry Motor 4P (1800rpm:2~20HP) • Dry Motor
	Insulation Class B (0.5~1HP) • Class F (2~3HP) • Class H (7.5~20HP)
	Protection IP68
	Protector Auto-cut (0.5~3HP) • None (7.5~20HP)
	Bearing Ball type
Material	M.seal Double M.seals
	Impeller Axial (L-300B/1220B : Mixed flow )
	Outer Cover SUS304
	Upper Cover FC200 (0.5~3HP) • BC6 (7.5~20HP)
	Motor Frame FC200 (0.5~3HP) • SUS304 (7.5~20HP)
	Shaft SUS304
	M.seal CA/CE & SiC/SiC (0.5~3HP) CA/CE & CA/CE (7.5~20HP)
	Casing FC200
Impeller ALBC3	
Strainer SUS304	
Cable VCT or H07RN-F or SOW/STOW	
Optional	Pumps can be customized to fit specifications

## PERFORMANCE SPECS.

Note: Weight Without Cable & Outlet, \*3.5" (90mm) optional by request.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimensions mm		
					m-m³/min	ft-GPM		1Ø	3Ø	A	1Ø	B
L-405A	0.5(0.4)	3.5"(90) 4"(100)	1	Capacitor	1.5-0.7	5-185	10(3/8")	25(55)	25(55)	225	478	478
L-41A	1(0.75)	3.5" (90) 4" (100)	1	Capacitor	3-0.7	10-185	10(3/8")	26(57)	26(57)	225	478	478
L-62A	2(1.5)	6" (150)	3	Direct	2-2.0	7-530	20(3/4")	-	51(112)	305	-	597
L-63A	3(2.2)	6" (150)	3	Direct	3.3-2.0	10-530	20(3/4")	-	52(115)	305	-	597
L-200A	7.5(5.5)	8" (200)	3	Direct	4.5-4.0	15-1060	22(7/8")	-	119(262)	340	-	923
L-250A	10(7.5)	10" (250)	3	Direct	4-5.5	13-1450	22(7/8")	-	162(357)	380	-	1029
L-250LA	15(11)	10" (250)	3	Direct	4-8.0	13-2110	22(7/8")	-	156(344)	380	-	1029
L-300A	15(11)	10" (250) 12" (300)	3	Direct	5.5-7.0	18-1850	33(1 1/4")	-	197(434)	430	-	1082
L-1220B	20(15)	10" (250) 12" (300)	3	Direct	5.5-9.0	18-2380	33(1 1/4")	-	210(463)	430	-	1082



## Optional Outlet Set

### PRODUCT NOMENCLATURE

L2F	4	(3.5)	175	180	LKF	6	125	*	125	LOF	4	127
Type	Discharge (upper flange)	Discharge (lower flange)	PCD		Type	Discharge	PCD (upper flange)		PCD (lower flange)	Type	Discharge	PCD

#### Optional Outlet for IC-32B~46B



#### Optional Outlet for IC-32B~46B \ L405A~L-41A



#### Optional Outlet for IC-48~610



#### Optional Outlet for L-62A&L-63A



IC Series Submersible Dewatering Pumps		Standard Specifications		Threaded Outlet Specification
Model	Specifications	Double Flange Set		
IC-32B	2HP*3"	L2F3-145-160		3" Discharge / PF thread
IC-33B	3HP*3"	L2F3-145-160		3" Discharge / PF thread
IC-43B	3HP*3.5"	L2F4(3.5)-175-180		3.5" Discharge / PF thread
	3HP*4"	L2F4-165-190		4" Discharge / PF thread
IC-45B	5HP*3.5"	L2F4(3.5)-175-180		3.5" Discharge / PF thread
	5HP*4"	L2F4-165-190		4" Discharge / PF thread
IC-46B	6HP*3.5"	L2F4(3.5)-175-180		3.5" Discharge / PF thread
	6HP*4"	L2F4-165-190		4" Discharge / PF thread
		THREAD CONNECTION	FLANGE CONNECTION	DOUBLE FLANGE SET
IC-48	7.5HP*4"	LOT4-127	LOF4-175-190*127	LKF4-175*127
IC-410	10HP*4"			
IC-610	10HP*6"	LOT6-127	LOF6-240*127	LKF6-240*127

L Series Large Volume Submersible Pumps		Standard Specifications		Threaded Outlet Specification
Model	Specifications	Double Flange Set		
L-405A	0.5HP*3.5"	L2F4(3.5)-175-180		3.5" Discharge / PF thread
	0.5HP*4"	L2F4-165-190		4" Discharge / PF thread
L-41A	1HP*3.5"	L2F4(3.5)-175-180		3.5" Discharge / PF thread
	1HP*4"	L2F4-165-190		4" Discharge / PF thread
L-62A	2HP*6"	6" Female thread		-
L-63A	3HP*6"	6" Female thread		-
L-200A	7.5HP*8"	Including : LOP8-285		-
L-250A	10HP*10"	Including : LOP10-325		-
L-250LA	15HP*10"	Including : LOP10-325		-
L-300B	15HP*10"	Including : LOP10(12)-389		-
	15HP*12"	Including : LOP12-389		-
L-1220B	20HP*10"	Including : LOP12-389		-
	20HP*12"	Including : LOP12-389		-

\*The LOP PVC Pipe is a regular accessory and it is built in L-200A, L-250(L)A and L-300B.

IP6 PVC Pipe is optional accessory for purchase for L-62A and L-63A.

Lower Flange and Double Flange are optional accessories for purchase for IC-32B/33B/43B/45B/46B, L-405A and L-41A.

Hose Connection, Thread Connection, Flange Connection and Double Flange Set are optional accessories for purchase for IC-48, IC-410 and IC-610.

## CASING COVER

Model	mm			Bolt Size
	DA	DB	DC	
IC-32B IC-33B	67	125		M12x25L
IC-43B IC-45B	80	125	150	M12x25L
IC-46B IC-48 IC-410 IC-610	90	150		M12x25L
	87	150		M12x25L
	97	175		M12x25L

## HIGH SOLIDS EPOXY COATING

■ HIGH SOLIDS EPOXY COATING is a concoction of special epoxy resin, hardener, chemical-tolerant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidization.

■ HCP HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent. Its dry film thickness can reach 100µm and above, compared to a regular paint whose dry film thickness is merely 30µm. The extraordinary toughness, anti-abrasion properties, plus excellent resistance to chemicals and sea water make it widely acclaimed and adopted as the best solution in the industry.

■ HCP has been a pioneer in the pump industry as well as the first one to apply HIGH SOLIDS EPOXY COATING to our IC & L Type and pumps above 7½ HP . Such innovative improvement will offer extended protection for our pumps and prolong their life expectancy substantially.



## Sacrificial Anode Protection System

■ Corrosion, the arch enemy for metals, especially when the metal is sunk in brine or sea water, could cause electrolysis and accelerate the corrosion. The pump in sea water normally suffers from rapid corrosion which causes the damage to its components.

■ For better protection against brine-inflicted corrosion, we suggest application of Sacrificial Anode Plate to the pump. Sacrificial Anode Plate will release positive particles and turn the pump into negative. The positive Sacrificial Anode will dissolve slowly in sea water and release electrons which can prevent the oxidization of the pump until it is exhausted. During the process, Sacrificial Anode Plate will protect the pump and its components from corrosion for an extended period of time and prolong the pump's life expectancy. If the pump is intended to be operated in sea water for more than 4 hours a day, the use of Sacrificial Anode is strongly recommended as it can offer extra protection against the corrosion of sea water and effectively extend the life expectancy of the pump.

\* Entire L Series are equipped with Sacrificial Anode. Sacrificial Anode would be optional for other models.

Without Sacrificial Anode Plate, frame and cover were seriously eroded by sea water in just five months of use.



After five months of operation, the corrosion of cast iron components has been alleviated (refer to below photo), while the Sacrificial Anode Plate was gradually worn out. Recommendation : Replace the Sacrificial Anode Plate when 3/4 of the plate is worn out.



## Sacrificial Anode Specifications

Model	Applicable Pump	Installation	Quantity
Z-80*30*M10	L-405A ~ 63A (Standard)		1
	L-300B~1220B (Standard)		2
AC-LR80C	L-200A ~ 250(L)A (Standard)		2
AC-LR80A	IC-215 (Optional)		1
AC-R80	IC-32B ~ 46B (Optional)		1
	IC-48 ~ 610 (Optional)		2