




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.






Adapter
ADT

Check Valve
CHV




Auto-cut Protector

Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. (There's no autotcut 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-300A).



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.



Professionalism • Innovation • Service • Commitment

HCP PUMP MANUFACTURER CO., LTD.

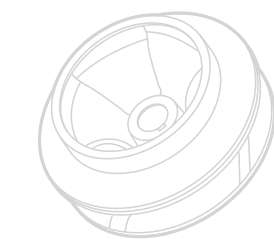
www.hcppump.com.tw



Distributor:

DICLEN5-1607

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IC/L ^{50Hz} SERIES

SUBMERSIBLE DEWATERING PUMPS LARGE VOLUME SUBMERSIBLE PUMPS

We reserve the right to alter specifications of product at any time without giving prior notice.



IC

IC-215

IC-32B~45B

IC(W-Well Type)

IC-48~610

FEATURE

- 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 oxidization



IC-215



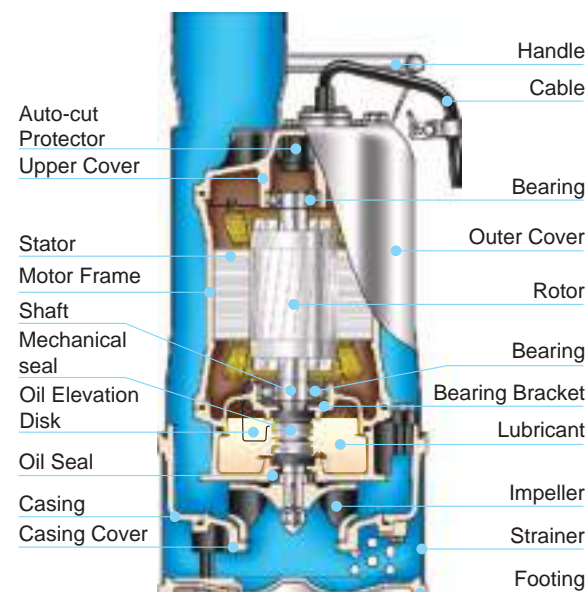
IC-32B~IC-610

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

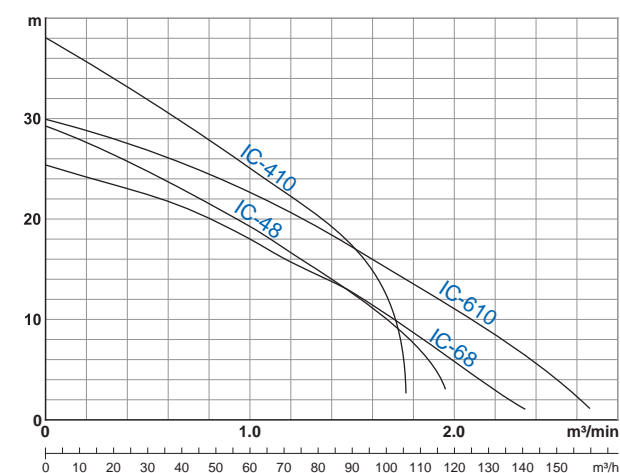
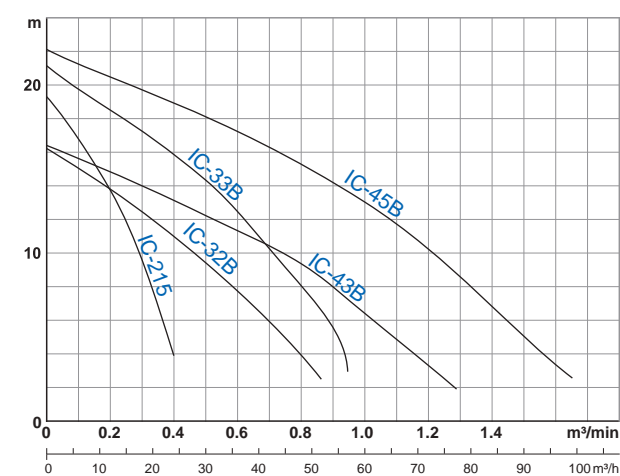
IC	3	2	B
Type	Discharge inch	HP	Style



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PERFORMANCE CURVES



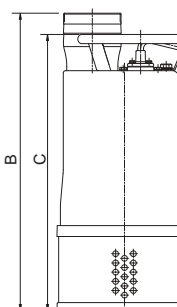
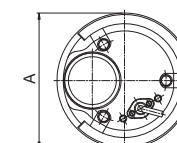
SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Agriculture irrigation • Circulating water • Dewatering
Type	Frequency 50Hz
	Motor 2P (3000rpm) • Dry Motor
	Insulation Class B (1.5~3HP) • Class F (5~10HP)
	Protection IP68
	Protector Auto-cut
	Bearing Ball type
	M.seal Double M.seals
Material	Impeller Enclosed-channel
	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
Optional	Impeller BC (IC-215) • Chrome Steel (IC-32B~IC-610)
	Cable VCT or H07RN-F or SJOW/SOW
Pumps can be customized to fit specifications	

PERFORMANCE SPEC.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Capacity		Solid Passage mm	Weight kg		Dimension mm					
						m³/min	m³/h		1Ø	3Ø	A	B				
												1Ø	3Ø	1Ø	3Ø	
IC-215	1.5(1.1)	2"(50)	1/3	Capacitor Direct	13.5	0.2	12	3.5	28	24	210	482	423	431	372	
IC-32B	2(1.5)	3"(80)	1/3	Capacitor Direct	9.5	0.5	30	10	40	36	235	548	503	511	466	
IC-33B	3(2.2)	3"(80)	1/3	Capacitor Direct	14	0.5	30	10	45	39	235	578	503	541	466	
IC-43B	3(2.2)	3.5"(90) 4"(100)	1/3	Capacitor Direct	9.5	0.8	48	10	45	39	235	593	518	556	481	
IC-45B	5(3.7)	3.5"(90) 4"(100)	3	Direct	12.5	1.0	60	10	-	44	235	-	548	-	511	
IC-48	7.5(5.5)	4"(100)	3	Direct	19	1.0	60	10	-	75	286	-	550	-	610	
IC-68	7.5(5.5)	6"(150)	3	Direct	12	1.5	90	10	-	78	286	-	550	-	610	
IC-410	10(7.5)	4"(100)	3	Direct	25	1.0	60	10	-	80	286	-	550	-	610	
IC-610	10(7.5)	6"(150)	3	Direct	17	1.5	90	10	-	81	286	-	550	-	610	

Note: Weight Without Cable & Outlet, *3 1/2" (90mm) optional by request.





FEATURE

- 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-200/250/300A 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.

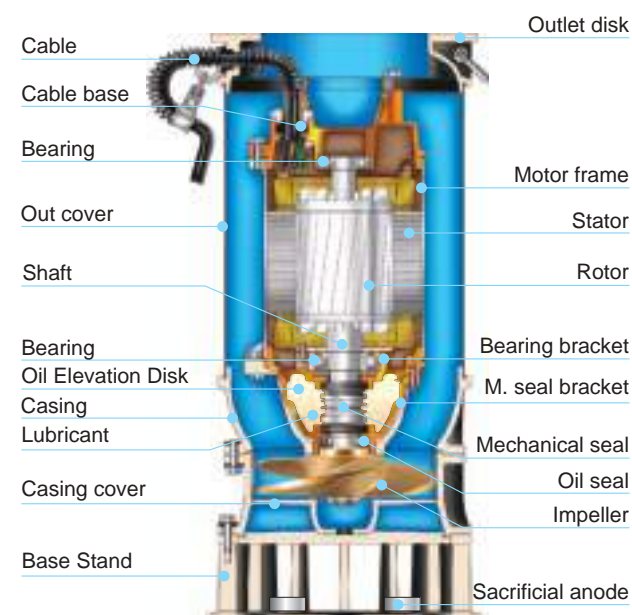
APPLICATIONS

- 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

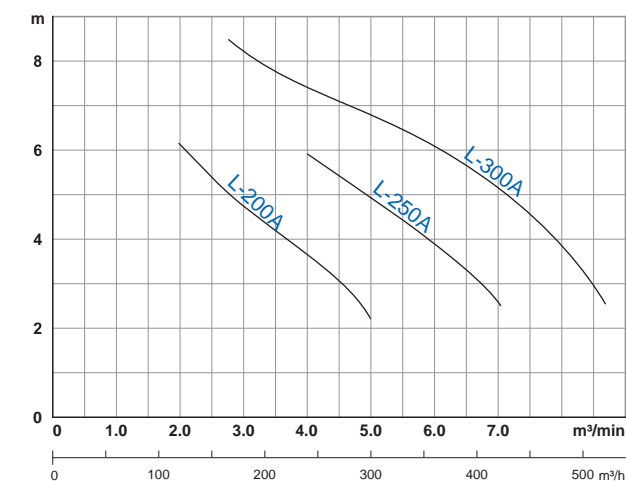
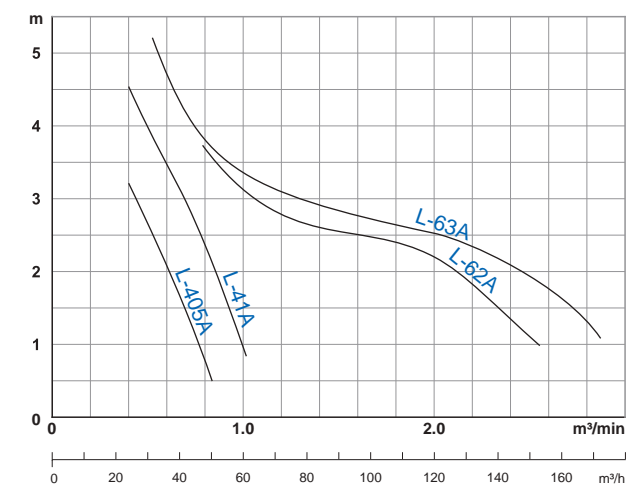
L	4	1	A
Type	Discharge inch	HP	Style
L	200	A	
Type	Discharge inch	Style	



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PERFORMANCE CURVES



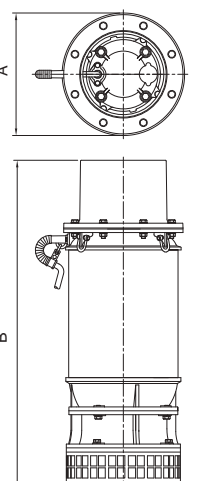
SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Agriculture irrigation Agriculture water-River water
Type	Frequency 50Hz
	Motor 2P (3000rpm:0.5~1HP) · Dry Motor 4P (1500rpm:2~15HP) · Dry Motor
	Insulation Class B (0.5~3HP) · Class F (7.5~15HP)
	Protection IP68
	Protector Auto-cut (0.5~3HP) · None (7.5~15HP)
	Bearing Ball type
	M.seal Double M.seals
Material	Impeller Axial-flow (0.5~10HP) · Mix-flow (15HP)
	Outer Cover SUS304
	Upper Cover FC200 (0.5~3HP) · BC6 (7.5~15HP)
	Motor Frame FC200 (0.5~3HP) · SUS304 (7.5~15HP)
	Shaft SUS304
	M.seal CA/CE & SiC/SiC (0.5~3HP) CA/CE & CA/CE (7.5~15HP)
	Casing FC200
	Impeller ALBC3
	Strainer SUS304
Optional	Cable VCT or H07RN-F or SOW/STOW
	Pumps can be customized to fit specifications

PERFORMANCE SPEC.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Capacity		Solid Passage mm	Weight kg	Dimension mm		
						m³/min	m³/h			1Ø	3Ø	A
L-405A	0.5(0.4)	3.5"(90) 4"(100)	1 3	Capacitor Direct	1.5	0.7	42	10	25	25	225	478
L-41A	1(0.75)	3.5"(90) 4"(100)	1 3	Capacitor Direct	3.0	0.7	42	10	26	26	225	478
L-62A	2(1.5)	6"(150)	3	Direct	2.0	2.0	120	20	-	51	285	597
L-63A	3(2.2)	6"(150)	3	Direct	2.5	2.0	120	20	-	52	285	597
L-200A	7.5(5.5)	8"(200)	3	Direct	4.0	3.5	210	22	-	116	340	923
L-250A	10(7.5)	10"(250) 12"(300)	3	Direct	4.0	5.5	330	22	-	157	380	1015
L-300A	15(11)	10"(250) 12"(300)	3	Direct	4.5	7.0	420	23	-	201	430	1082

Note: Weight Without Cable & Outlet, *3 1/2" (90mm) optional by request.



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~45B



3" & 3.5" Pump Outlet

Optional Outlet for IC-32B~45B \ L405A~L-41A



Double Flange Set : L2F

Optional Outlet for IC-48~610



Thread Connection : LOT
Flange connection : LOF
Double Flange set : LKF

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






PVC adapter : IP6
OF4(6); PCD.175* 4 openings
6" connection outlet with 4" Flange

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"			
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
		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-68	7.5HP*4"	LOT6-127	LOF6-240*127	LKF6-240*127
IC-610	10HP*6"			

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		-
L-250A	10HP*10"	Including : LOP10		-
L-300A	15HP*10"	Including : LOP10(12)		-
	15HP*12"	Including : LOP12		-

※The LOP PVC Pipe is a regular accessory and it is built in L-200A, L-250A and L-300A.
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, L-405A and L-41A.
Hose Connection, Thread Connection, Flange Connection and Double Flange Set are optional accessories for purchase for IC-48, IC-68, IC-410 and IC-610.

CASING COVER

		Model	mm			Bolt Size
			DA	DB	DC	
IC-32B · 33B	IC-43B~45B	IC-32B 33B	67	125		M12x25L
		IC-43B ~45B	80	125	150	M12x25L
		Model	mm		Bolt Size	
			DA	DB		
IC-48 · IC-410 · IC-68 · IC-610		IC-48 IC-410	87	150	M12x25L	
		IC-68 IC-610	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 oxidation
- 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-200A ~ 250A (Standard)		2
	L-300A (Standard)		2
AC-LR80A	IC-215 (Optional)		1
AC-R80	IC-32B ~ 45B (Optional)		1
	IC-48 ~ 610 (Optional)		2

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