



IC/L&LH 60Hz SERIES

SUBMERSIBLE DEWATERING PUMPS
SUBMERSIBLE LARGE VOLUME PUMPS



IC-215



IC-32B~46B



IC-48~610



ADTC



FEATURES

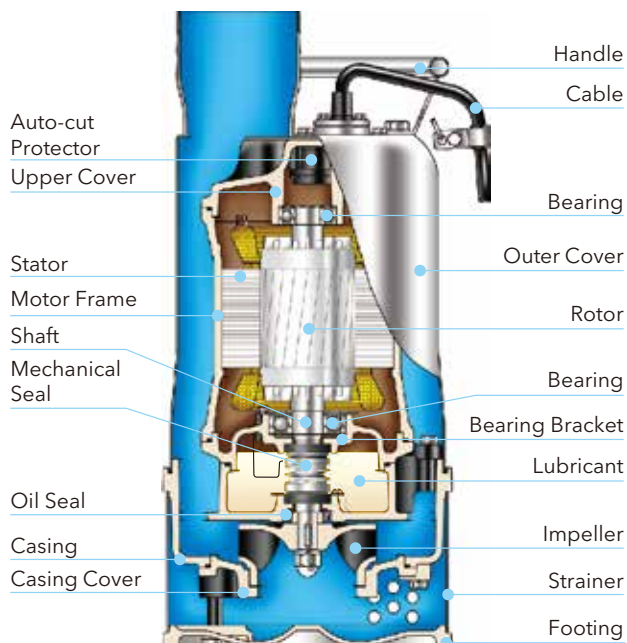
- High efficient water-cooled motor ensures energy saving in continuous/intermittent operation.
- Dry motor, Auto-cut motor protector, double mechanical seals, and oil seal design.
- Internal casing treated with high solids epoxy coating to improve anti-corrosion resistance and extend product life.
- High Efficient chrome steel impeller design (2~10HP) with HRC 30~35 Rockwell Hardness allows high head performance and large flow application and to stand water abrasion and corrosion.
- Optional ADTC (Adapter Connection) casing cover to connect suction with inline pipe, allowing surface/inline/deep well pumping up to 8m deep.

APPLICATIONS

- Aquaculture water supply and drainage.
- Agriculture irrigation systems.
- Underground water pumping.
- Landscape, water feature, and horticulture irrigation.
- Water extraction from rivers, lakes, and reservoirs.

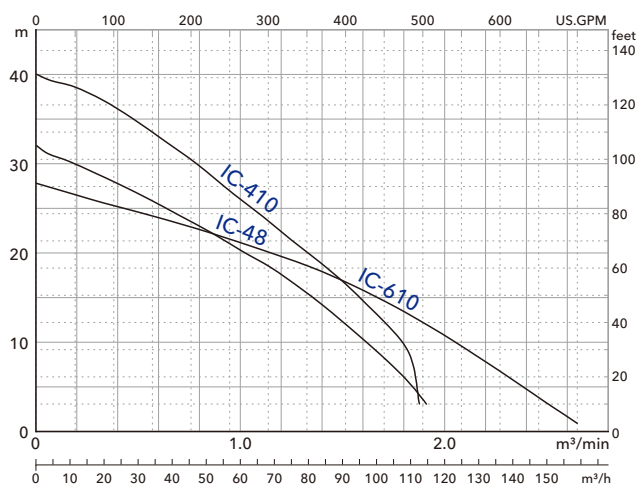
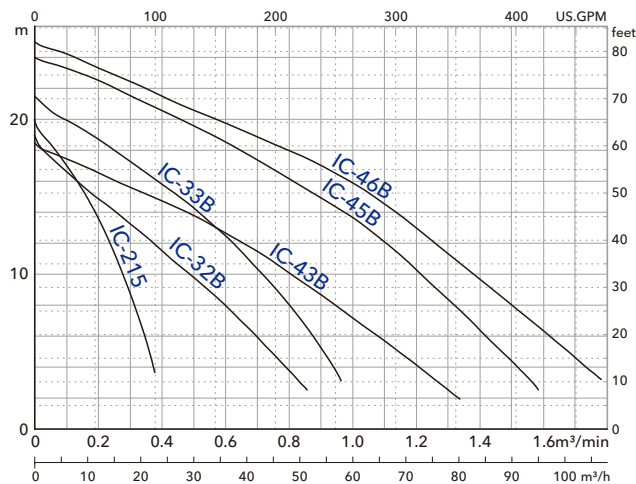
PRODUCT NOMENCLATURE

IC	—	3	2	B
Type		Discharge inch	HP	Style





PERFORMANCE CURVES



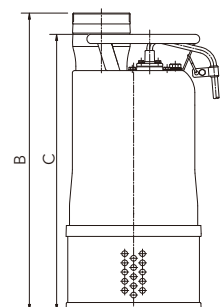
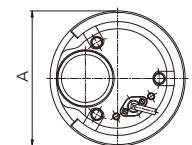
SPECIFICATIONS

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 H (7.5~10HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Close
Material	Outer Cover	SUS304 / AISI 304
	Upper Cover	FC200 / ASTM-30
	Motor Frame	SUS304 / AISI 304 (1.5HP) • FC200 / ASTM-30 (2~10HP)
	Shaft	SUS403 / ASTM 403 (1.5~3HP) • SUS304 / AISI 304 (5~10HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200 / ASTM-30
	Impeller	BC (1.5HP) • Chrome Steel (2~10HP)
	Cable	VCT or SJOW/SOW
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	B		C		
IC-215	1.5(1.1)	2"(50)	1	Capacitor	13.5-0.2	44-52	3.5(1/8")	28(62)	24(53)	210	431	372	482	423	
			3	DOL											
IC-32B	2(1.5)	3"(80)	1	Capacitor	9.5-0.5	31.2-132	10(3/8")	40(88)	36(79)	235	548	503	511	466	
			3	DOL											
IC-33B	3(2.2)	3"(80)	1	Capacitor	14-0.5	45.9-132	10(3/8")	44(97)	39(86)	235	578	503	541	466	
			3	DOL											
IC-43B	3(2.2)	3.5"(90) 4"(100)	1	Capacitor	9.5-0.8	31.2-212	10(3/8")	44(97)	39(86)	235	593	518	556	481	
			3	DOL											
IC-45B	5(3.7)	3.5"(90) 4"(100)	3	DOL	13-1.0	42.7-264	10(3/8")	-	44(97)	235	-	548	-	511	
IC-46B	6(4.5)	3.5"(90) 4"(100)	3	DOL	15.5-1.0	51-264	10(3/8")	-	44(97)	235	-	548	-	511	
IC-48	7.5(5.5)	4"(100)	3	DOL	20-1.0	65.6-264	10(3/8")	-	71(157)	286	-	550	-	610	
IC-410	10(7.5)	4"(100)	3	DOL	26-1.0	85.3-264	10(3/8")	-	79(174)	286	-	550	-	610	
IC-610	10(7.5)	6"(150)	3	DOL	17-1.5	55.8-395	10(3/8")	-	81(179)	286	-	550	-	610	





L-405A/41A



L-62A/63A



L-200A/250(L)A



L-300B/1220B

FEATURES

- High Efficient axial/mix flow impeller design to ensures best interest of energy saving for large flow applications.
- Standard accessories include: cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector (0.5~3HP), double mechanical seals, oil seal design, and High Solid Epoxy coating.
- HIGH-QUALITY BRONZE : L-200A/250(L)A/300B/1220B with bronze Upper Cover, Bearing Bracket, & M. Seal Bracket to withstand corrosion and brine erosion, substantially extending pump life.
- Casted ALBC3 material (Aluminum Bronze) impeller with superior abrasion and corrosion resistance.
- Equipped with Sacrificial Anode to keep pump material surface from corrosion and oxidation in brine environment.

APPLICATIONS

- Pumping and draining large volume water in aquaculture applications.
- Water Supply for landscaping and industrial applications.
- Flood control and large volume dewatering.
- Water extraction from docks and rivers.



L-405A/41A



L-62A/63A



L-200A/250(L)A



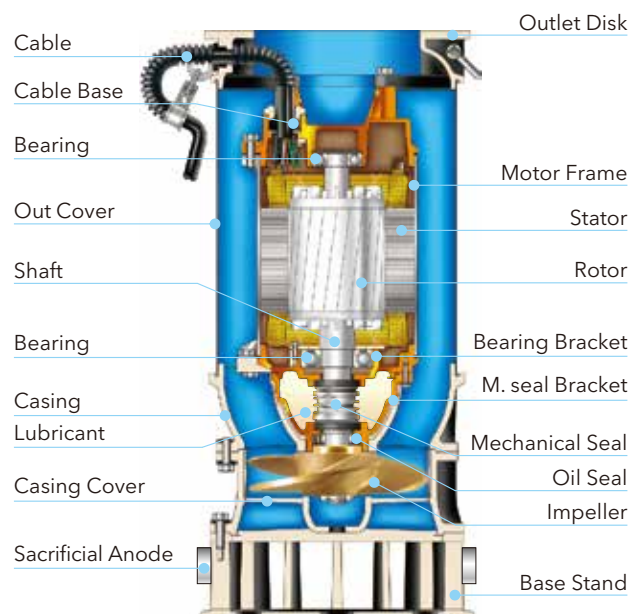
L-300B/1220B



SACRIFICIAL ANODE

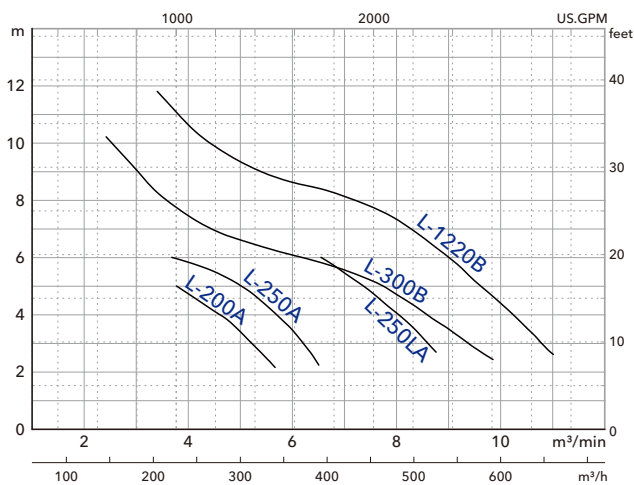
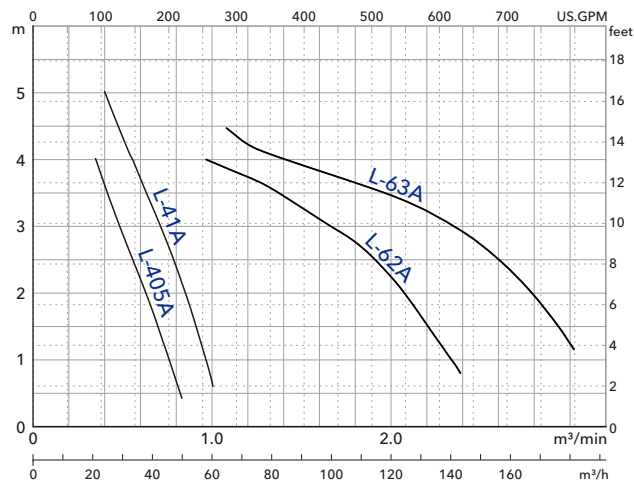
PRODUCT NOMENCLATURE

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





PERFORMANCE CURVES



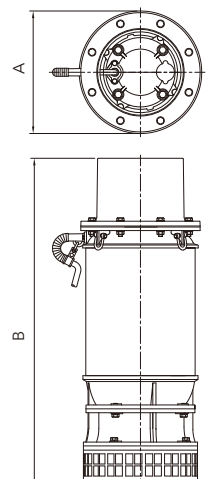
SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Agriculture irrigation • Aquaculture • 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
	M.seal	Double M.seals
	Impeller	Axial (L-300B/1220B : Mixed flow)
Material	Outer Cover	SUS304 / AISI 304
	Upper Cover	FC200 / ASTM-30 (0.5~3HP) • BC6 / C83600 (7.5~20HP)
	Motor Frame	FC200 / ASTM-30 (0.5~3HP) • SUS304 / AISI 304 (7.5~20HP)
	Shaft	SUS304 / AISI 304
	M.seal	CA/CE & SiC/SiC (0.5~3HP) CA/CE & CA/CE (7.5~20HP)
	Casing	FC200 / ASTM-30
	Impeller	ALBC3 / C95800
	Strainer	SUS304 / AISI 304
	Cable	VCT or SJOW/SOW
	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	B	
L-405A	0.5(0.4)	3.5"(90) 4"(100)	1 3	Capacitor DOL	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 3	Capacitor DOL	3-0.7	10-185	10(3/8")	26(57)	26(57)	225	478	478
L-62A	2(1.5)	6"(150)	3	DOL	2-2.0	7-530	20(3/4")	-	51(112)	305	-	597
L-63A	3(2.2)	6"(150)	3	DOL	3.3-2.0	11-530	20(3/4")	-	52(115)	305	-	597
L-200A	7.5(5.5)	8"(200)	3	DOL	4.5-4.0	15-1060	22(7/8")	-	119(262)	340	-	923
L-250A	10(7.5)	10"(250)	3	DOL	4-5.5	13-1450	22(7/8")	-	162(357)	380	-	1029
L-250LA	15(11)	10"(250)	3	DOL	4-8.0	13-2110	22(7/8")	-	156(344)	380	-	1029
L-300B	15(11)	10"(250) 12"(300)	3	DOL	5.5-7.0	18-1850	33(1 1/4")	-	197(434)	430	-	1082
L-1220B	20(15)	10"(250) 12"(300)	3	DOL	5.5-9.0	18-2380	33(1 1/4")	-	210(463)	430	-	1082





LH-65

LH-88/812

LH



LH-65/88/812



SACRIFICIAL ANODE



ADTC



FEATURES

- LH new designed impeller provides best energy saving for handling high head and long distance pumping applications.
- Double outer casing, water cooling motor for continuous duty, and low water level conditions.
- Standard accessories include: cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals, oil seal design, and High Solid Epoxy coating.
- High efficient chrome steel impeller design with HRC 30~35 Rockwell Hardness, cast iron casing with heat treatment, chrome steel wear plate allow pump to stand abrasive and corrosive applications.
- Sacrificial Anode prolongs pump life in brine environment.
- Optional ADTC (Adapter Connection) Casing to connect suction with inline pipe allows surface /inline/deep well pumping.

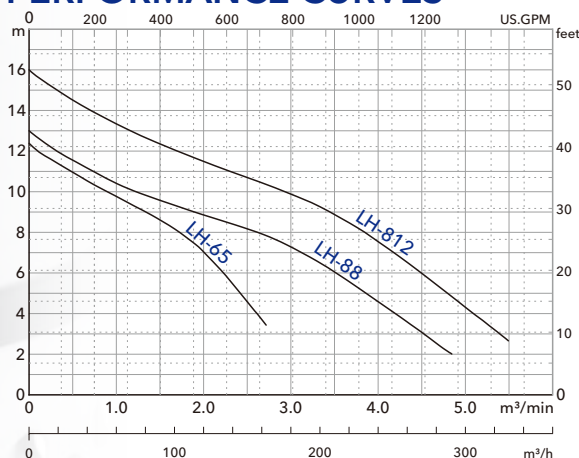
APPLICATIONS

- Pumping and draining large volume water in aquaculture applications.
- Water supply for agricultural irrigation systems and underground water pumping.
- Civil engineering, dewatering, tunneling, groundworks, mining, and manhole sewer.
- Others: Extraction of water from dock and river.

PRODUCT NOMENCLATURE

LH — 6 — 5
Type Discharge HP
inch

PERFORMANCE CURVES



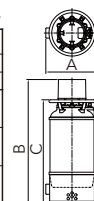
SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
Applications	Aquaculture • Agriculture irrigation River water • Construction sites
Type	Frequency 60Hz Motor 4P (1800rpm) • Dry Motor Insulation Class F(5HP) • Class H(8~12HP) Protection IP68 Protector Auto-cut Bearing Ball type M.seal Double M.seals Impeller Close
Material	Outer Cover SUS304 / AISI 304 Upper Cover FC200 / ASTM-30 Motor Frame FC200 / ASTM-30 Shaft SUS304 / AISI 304 M.seal CA/CE & SiC/SiC Casing+ Wear Plate FC200/ASTM-30+Chrome steel Impeller Chrome Steel Strainer SUS304 / AISI 304 Cable VCT or SOW
Optional	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		3Ø	A	B 3Ø	C 3Ø
LH-65	5(3.7)	6"(150)	3	DOL	6.5-2.0	21-530	20(¾")	71(157)	312	628	663
LH-88	8(6.0)	8"(200)	3	DOL	5.5-3.6	18-950	20(¾")	136(300)	415	985	824
LH-812	12(9.0)	8"(200)	3	DOL	7.0-4.0	23-1060	20(¾")	143(315)	415	985	824

※ Note : Weight Without Cable & Outlet



OPTIONAL OUTLET SET

PRODUCT NOMENCLATURE

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

Optional Outlet for IC-32B~46B



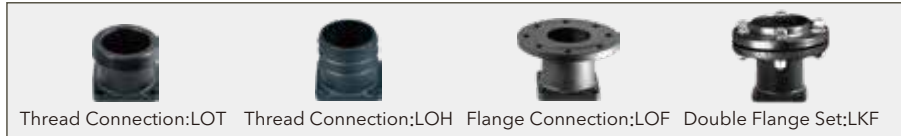
Optional Outlet for IC-32B~46B & L-405A/41A



Optional Outlet for LH88/812



Optional Outlet for IC-48~610



Optional Outlet for L-62A/63A & LH-65



IC Series Submersible Dewatering Pumps		Outlet Specifications		Flange Specifications	
Model	Specifications			Double Flange Set	
IC-32B	2HP*3"	3" Hose + Male PF thread / Male NPT thread		L2F3-145-160	
IC-33B	3HP*3"				
IC-43B	3HP*3"	3" Hose + Male PF thread / Male NPT thread		L2F3-145-160	
	3HP*3.5"	3.5" Hose + Male PF thread		L2F4(3.5)-175-180	
	3HP*4"	4" Hose + Male PF thread / Male NPT thread		L2F4-165-190	
IC-45B	5HP*3.5"	3.5" Hose + Male PF thread		L2F4(3.5)-175-180	
	5HP*4"	4" Hose + Male PF thread / Male NPT thread		L2F4-165-190	
IC-46B	6HP*3.5"	3.5" Hose + Male PF thread		L2F4(3.5)-175-180	
	6HP*4"	4" Hose + Male PF thread / Male NPT thread		L2F4-165-190	
		Thread Connection		Flange Connection	
IC-48	7.5HP*4"	LOT4-127		LOF4-175-190*127	
IC-410	10HP*4"				
IC-610	10HP*6"	LOT6-127		LOF6-240*127	
				LKF6-175*127	
				LKF6-240*127	

L&LH Series Large Volume Submersible Pumps		Threaded Outlet Specification		Flange Specifications	
Model	Specifications			Double Flange Set	
L-405A	0.5HP*3.5"	3.5" Discharge / PF thread		L2F4(3.5)-175-180	
	0.5HP*4"	4" Discharge / NPT / PF thread		L2F4-165-190	
L-41A	1HP*3.5"	3.5" Discharge / PF thread		L2F4(3.5)-175-180	
	1HP*4"	4" Discharge / NPT / PF thread		L2F4-165-190	
		LOP Outlet Specifications		LOF Outlet Specifications	
L-62A	2HP*6"	6" Female NPT / PF thread		LOF6-240	
L-63A	3HP*6"	6" Female NPT / PF thread		LOF6-240	
L-200A	7.5HP*8"	-		-	
L-250A	10HP*10"	-		-	
L-250LA	15HP*10"	-		-	
L-300B	15HP*10"	-		-	
	15HP*12"	-		-	
L-1220B	20HP*10"	-		-	
	20HP*12"	-		-	
LH-65	5HP*6"	6" Female NPT / PF thread		LOF6-240	
LH-88	8HP*8"	-		-	
LH-812	12HP*8"	-		-	

※ Optional accessories on LOT, LOH, LKF, L2F, LTF. Please consult with distributor or sales representative for further information.

STANDARD CASING COVER - IC SERIES

Model	mm			Bolt Size
	DA	DB	DC	
IC-215	50	100	-	M10x25L
IC-32B	67	125	-	M12x25L
IC-33B				
IC-43B	80	125	150	M12x25L
IC-45B				

Model	mm			Bolt Size
	DA	DB		
IC-46B	90	150		M12x25L
IC-48	87	150		M12x25L
IC-410				
IC-610	97	175		M12x25L

Model	mm			Bolt Size
	DA	DB		
LH-65	110	175		M12x35L
LH-88	135	200		M12x30L
LH-812				

ACCESSORIES : ADAPTER

ADTC (Adapter Connection) Pump model, can be applied with flange type adapter or check valve, is an optional accessory for groundwater, deep well or wellpoint dewatering applications.





HIGH SOLIDS EPOXY COATING

- HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent.
- Thickness greater than 100µm High Solids Epoxy Coating, provides resistance to salty sea water, industrial wastewater, and chemical fluids, creating an anti-corrosion layer on metal surface that prevents corrosion.
- HCP is the pioneer in pump industry to applied HIGH SOLIDS EPOXY COATING, extending pumps protection and prolonging pump life expectancy.

SACRIFICIAL ANODE PROTECTION SYSTEM

- Pumps in sea water typically suffer fast corrosion that damages the components causes component damage.
- Sacrificial anode uses the principle of active metal (anode) corrodes faster than more noble metal (pump material), to protect the pump against sea water corrosion until anode is destroyed, which increase pump lifetime.

* HCP highly recommends Sacrificial anode when pump operates more than 4 hours a day in sea water.

SACRIFICIAL ANODE SPECIFICATIONS

Model	Applicable Pump	Installation	Quantity	Model	Applicable Pump	Installation	Quantity
Z-80*30*M10	L-405A/41A/62A/63A/LH-65 (Standard)		1	AC-LR80A	IC-215 (Optional)		1
	LH-88/812 (Standard)		2		IC-32B/33B/43B/45B/46B (Optional)		1
	L-300B/1220B (Standard)		2	AC-R80	IC-48/410/610 (Optional)		2
AC-LR80C	L-200A/250(L)A (Standard)		2				

* Sacrificial Anode is a standard accessory for L and LH Series and optional for other models.



WITHOUT SACRIFICIAL ANODE :
5 months pumping in seawater applications



WITH SACRIFICIAL ANODE :
5 months pumping in seawater applications



Professionalism • Innovation • Service • Commitment
HCP PUMP MANUFACTURER CO., LTD.
www.hcppump.com



Distributor:

DICLEN6-2404