



# IC/L&LH 50Hz SERIES

SUBMERSIBLE DEWATERING PUMPS  
SUBMERSIBLE LARGE VOLUME PUMPS



IC-215



IC-32B~45B



IC-48~610



ADTC

# IC

## 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

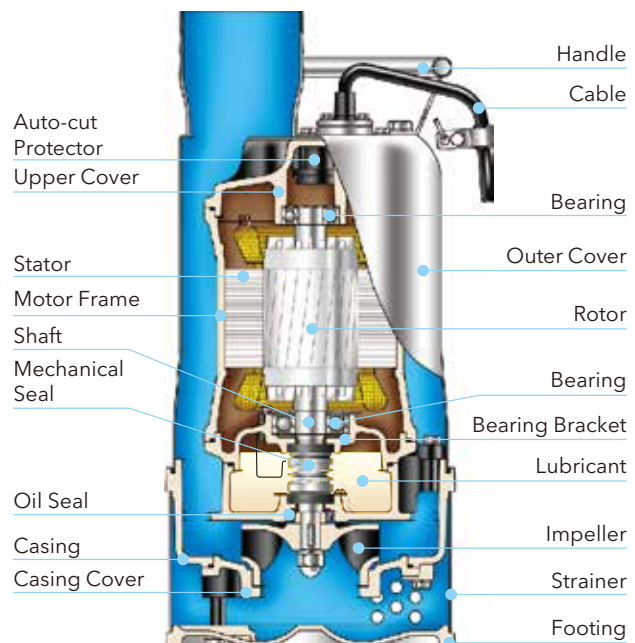
IC	—	3	2	B
Type		Discharge inch	HP	Style



IC 1.5HP

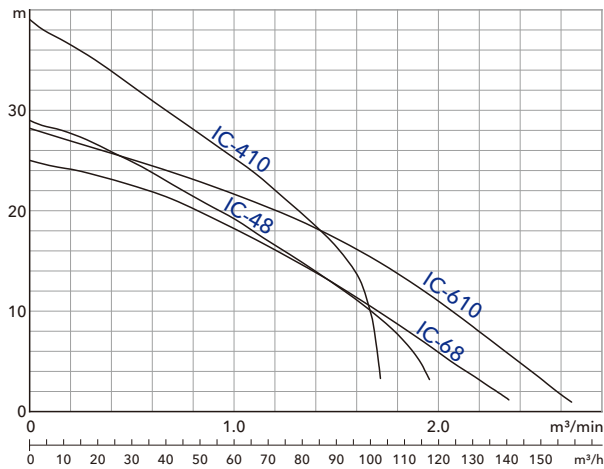
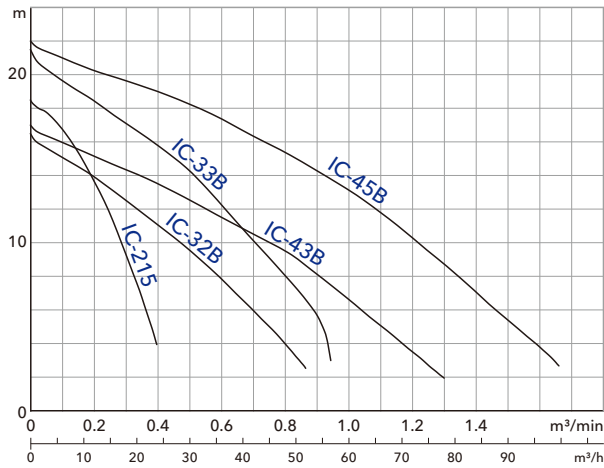


IC 2~10HP





## PERFORMANCE CURVES



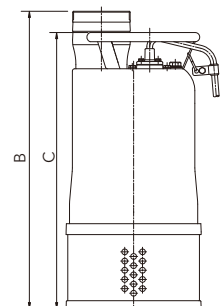
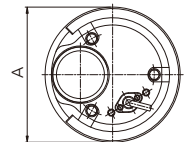
## SPECIFICATIONS

Item	Description	
Limits of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Aquaculture • Aquaculture irrigation • Circulating water • Dewatering
Type	Frequency	50Hz
	Motor	2P (3000rpm) • Dry Moto
	Insulation	Class F (1.5~5HP) • Class H (7.5~10HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
Material	Impeller	Close
	Outer Cover	SUS304 / X5CrNi18-10
	Upper Cover	FC200 / GG-20
	Motor Frame	SUS304 / X5CrNi18-10 (1.5HP) • FC200 / GG-20 (2~10HP)
	Shaft	SUS403 / X5Cr13 (1.5~3HP) • SUS304 / X5CrNi18-10 (5~10HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200 / GG-20
Optional	Impeller	BC (1.5HP) • Chrome Steel (2~10HP)
	Cable	VCT or H07RN-F
Optional	Pumps can be customized to fit specifications	

## PERFORMANCE SPECS.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm				
						m³/min	m³/h		1Ø	3Ø	A	B		C	
IC-215	1.5(1.1)	2"(50)	1	Capacitor	13.5	0.2	12	3.5	28	24	210	431	372	482	423
IC-32B	2(1.5)	3"(80)	1	Capacitor	9.5	0.5	30	10	40	36	235	548	503	511	466
IC-33B	3(2.2)	3"(80)	1	Capacitor	14	0.5	30	10	45	39	235	578	503	541	466
IC-43B	3(2.2)	3.5"(90) 4"(100)	1	Capacitor	9.5	0.8	48	10	45	39	235	593	518	556	481
IC-45B	5(3.7)	3.5"(90) 4"(100)	3	DOL	13	1.0	60	10	-	44	235	-	548	-	511
IC-48	7.5(5.5)	4"(100)	3	DOL	19	1.0	60	10	-	75	286	-	550	-	610
IC-68	7.5(5.5)	6"(150)	3	DOL	12	1.5	90	10	-	78	286	-	550	-	610
IC-410	10(7.5)	4"(100)	3	DOL	25.5	1.0	60	10	-	80	286	-	550	-	610
IC-610	10(7.5)	6"(150)	3	DOL	17	1.5	90	10	-	81	286	-	550	-	610

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





L-405A/41A



L-62A/63A



L-200A/250A



L-300B

## 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/250A/300B 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/250A



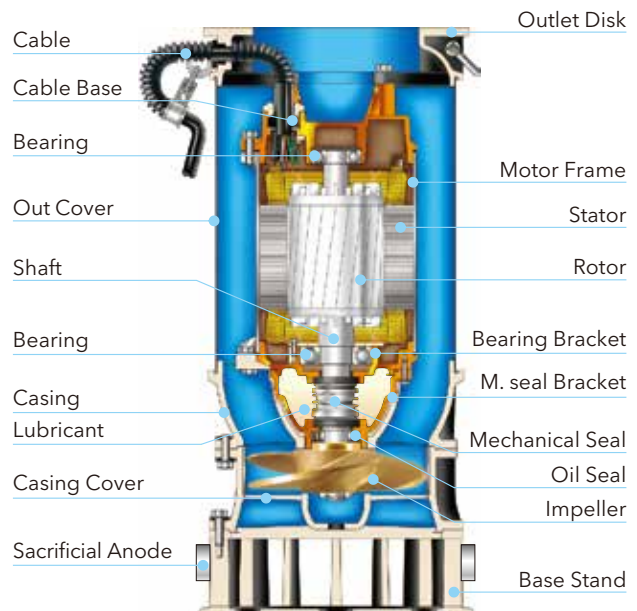
L-300B



SACRIFICIAL ANODE

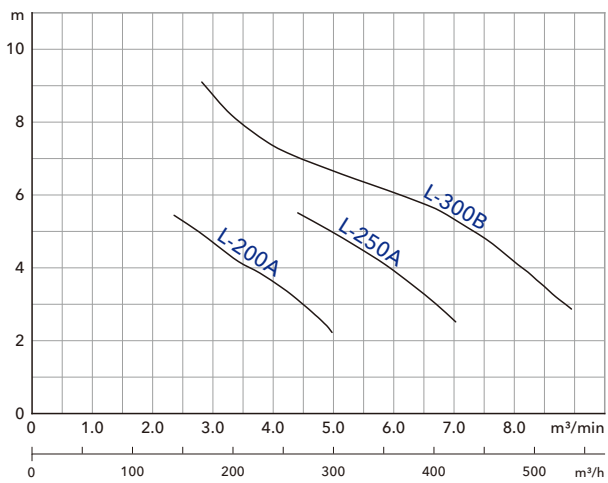
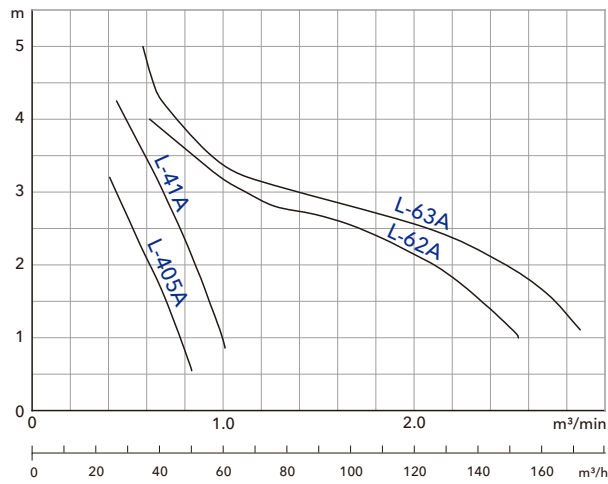
## PRODUCT NOMENCLATURE

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





## PERFORMANCE CURVES



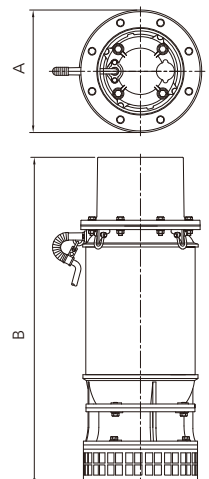
## SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F)
	Applications Agriculture irrigation • Aquaculture • River water
Type	Frequency 50Hz
	Motor 2P (3000rpm:0.5~1HP) • Dry Motor 4P (1500rpm:2~15HP) • Dry Motor
	Insulation Class B (0.5~1HP) • Class F (2~3HP) • Class H (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 (0.5~10HP) • Mixed flow (15HP)
	Outer Cover SUS304 / X5CrNi18-10
	Upper Cover FC200 / GG-20 (0.5~3HP) • BC6 / CuSn5Zn (7.5~15HP)
	Motor Frame FC200 / GG-20 (0.5~3HP) • SUS304 / X5CrNi18-10 (7.5~15HP)
	Shaft SUS304 / X5CrNi18-10
	M.seal CA/CE & SiC/SiC (0.5~3HP) CA/CE & CA/CE (7.5~15HP)
	Casing FC200 / GG-20
	Impeller ALBC3 / G-A110Ni
	Strainer SUS304 / X5CrNi18-10
	Cable VCT or H07RN-F
Optional	Pumps can be customized to fit specifications

## PERFORMANCE SPECS.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimensions mm		
						m³/min	m³/h		1Ø	3Ø	A	1Ø	B
L-405A	0.5(0.4)	3.5"(90) 4"(100)	3	1	1.5	0.7	42	10	25	25	225	478	478
				Capacitor DOL									
L-41A	1(0.75)	3.5"(90) 4"(100)	3	1	3.0	0.7	42	10	26	26	225	478	478
				Capacitor DOL									
L-62A	2(1.5)	6"(150)	3	DOL	2.0	2.0	120	20	-	51	305	-	597
L-63A	3(2.2)	6"(150)	3	DOL	2.5	2.0	120	20	-	52	305	-	597
L-200A	7.5(5.5)	8"(200)	3	DOL	4.0	3.5	210	22	-	116	340	-	923
L-250A	10(7.5)	10"(250)	3	DOL	4.0	5.5	330	22	-	157	380	-	1029
L-300B	15(11)	10"(250) 12"(300)	3	DOL	5.0	7.0	420	33	-	198	430	-	1082

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





LH-65

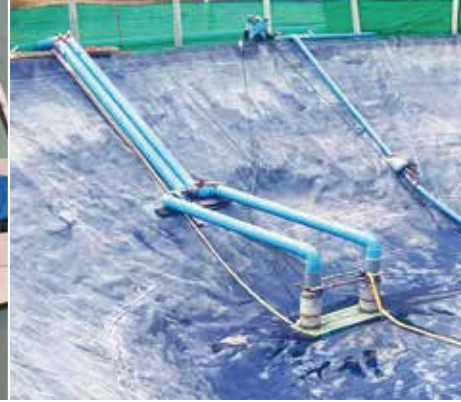
LH-88/812



LH-65/88/812



SACRIFICIAL ANODE



## 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.

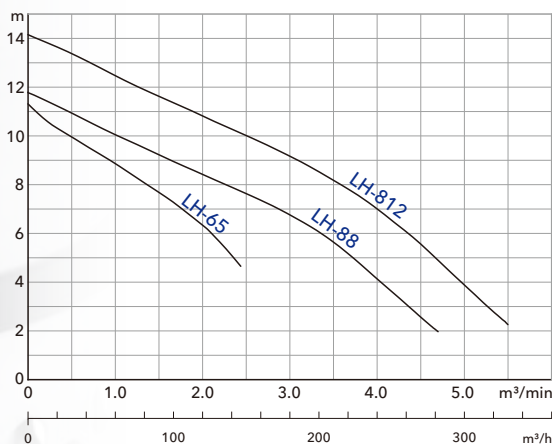
## APPLICATIONS

- 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



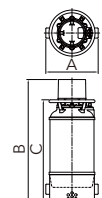
## PERFORMANCE SPECS.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg	Dimensions mm		
						m³/min	m³/h			A	B 3Ø	C 3Ø
LH-65	5(3.7)	6"(150)	3	DOL	6.0	2.0	120	20	71	312	628	663
LH-88	8(6.0)	8"(200)	3	DOL	5.5	3.5	210	20	136	415	985	824
LH-812	12(9.0)	8"(200)	3	DOL	7.0	4.0	240	20	143	415	985	824

## SPECIFICATIONS

Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F) Applications Aquaculture • Agriculture irrigation River water • Construction sites
Type	Frequency 50Hz Motor 4P (1500rpm) • 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 / X5CrNi18-10 Upper Cover FC200 / GG-20 Motor Frame FC200 / GG-20 Shaft SUS304 / X5CrNi18-10 M.seal CA/CE & SiC/SiC Casing+ Wear Plate FC200 / GG-20 + Chrome steel Impeller Chrome Steel Strainer SUS304 / X5CrNi18-10 Cable VCT or H07RN-F
Optional	Pumps can be customized to fit specifications

※ 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~45B



Optional Outlet for IC-32B~45B & L-405A/41A



Optional Outlet for LH88/812



Adapter Connection (ADTC)

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*3.5"	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	
		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*6"	LOT6-127	LOF6-240*127	LKF6-240*127	
IC-610	10HP*6"				

L&H 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/ PF thread	L2F4-165-190		
L-41A	1HP*3.5"	3.5" Discharge / PF thread	L2F4(3.5)-175-180		
	1HP*4"	4" Discharge/ PF thread	L2F4-165-190		
			LOP Outlet Specifications	LOF Outlet Specifications	LTF 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"	-	Including : LOP8-285	-	-
L-250A	10HP*10"	-	Including : LOP10-325	-	-
L-300B	15HP*10"	-	Including : LOP10(12)-389	-	-
	15HP*12"	-	Including : LOP12-389	-	-
LH-65	5HP*6"	6" Female NPT / PF thread	-	LOF6-240	-
LH-88	8HP*8"	-	Including : LOP8-240	-	LTF8-290*240 / LTF8-295~299*240 / LTF8-285~325*240
LH-812	12HP*8"	-	Including : LOP8-240	-	

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

# 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.

## STANDARD CASING COVER - IC SERIES

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

Model	mm		Bolt Size
	DA	DB	
IC-48 IC-410	87	150	M12x25L
IC-68 IC-610	97	175	M12x25L

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



## 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.



WITHOUT SACRIFICIAL ANODE :  
5 months pumping in seawater applications



WITH SACRIFICIAL ANODE :  
5 months pumping in seawater applications



## 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				
	L-300B (Standard)		2	AC-R80	IC-32B/33B/43B/45B (Optional)		1
AC-LR80C	L-200A/250A (Standard)		2				

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



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