

IC/L&LH 50Hz SERIES

SUBMERSIBLE DEWATERING PUMPS
SUBMERSIBLE LARGE VOLUME PUMPS



IC-215



IC-32B~45B



IC-48~610



ADTC

IC

FEATURES

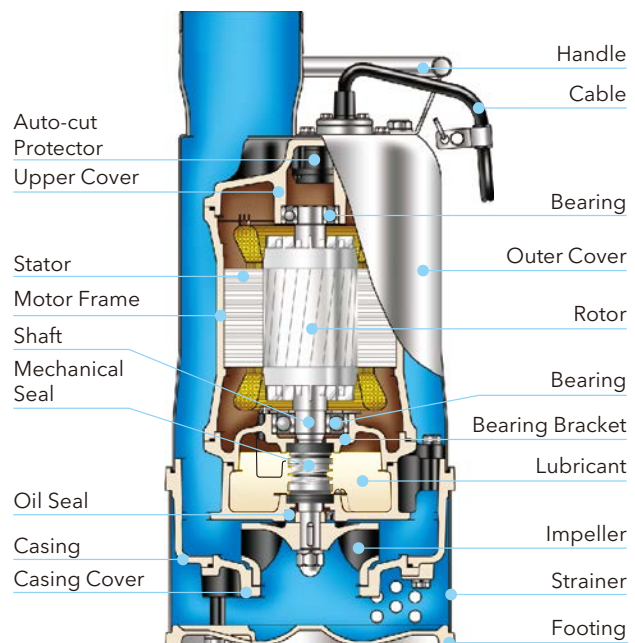
- High efficient water-cooled motor ensures energy saving in continuous/intermittent operation.
- Dry motor, Auto-cut motor protector, double mechanical seals, and oil seal design.
- Internal casing treated with high solids epoxy coating to improve anti-corrosion resistance and extend product life.
- 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.

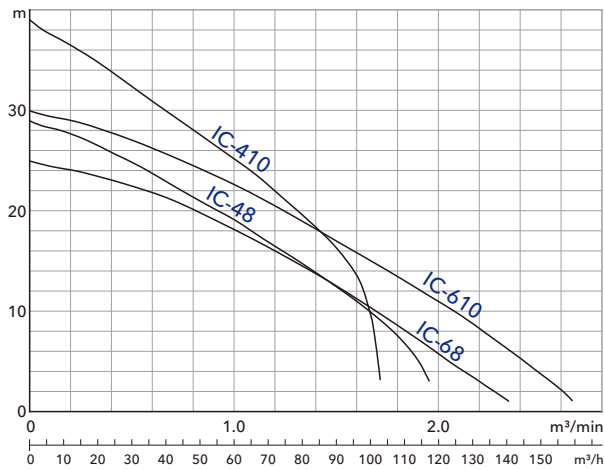
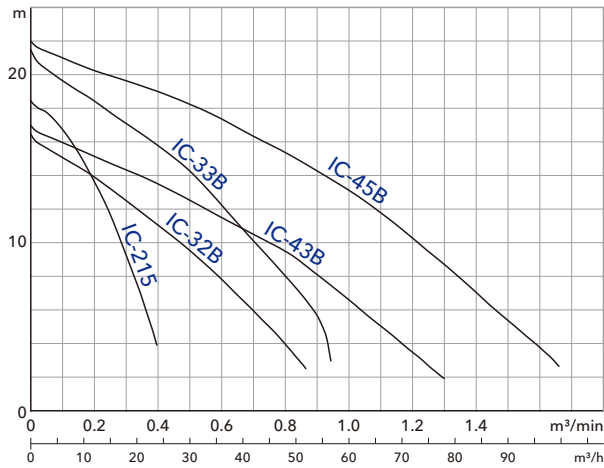
PRODUCT NOMENCLATURE

IC	—	3	2	B
Type		Discharge inch	HP	Style





PERFORMANCE CURVES



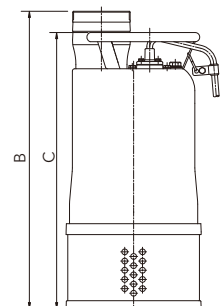
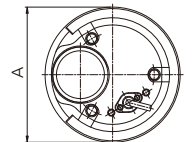
SPECIFICATIONS

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
	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 (1.5HP) • Chrome Steel (2~10HP)
	Cable VCT or H07RN-F or SJOW/SOW
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
				DOL											
IC-32B	2(1.5)	3"(80)	1	Capacitor	9.5	0.5	30	10	40	36	235	548	503	511	466
				DOL											
IC-33B	3(2.2)	3"(80)	1	Capacitor	14	0.5	30	10	45	39	235	578	503	541	466
				DOL											
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
				DOL											
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	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



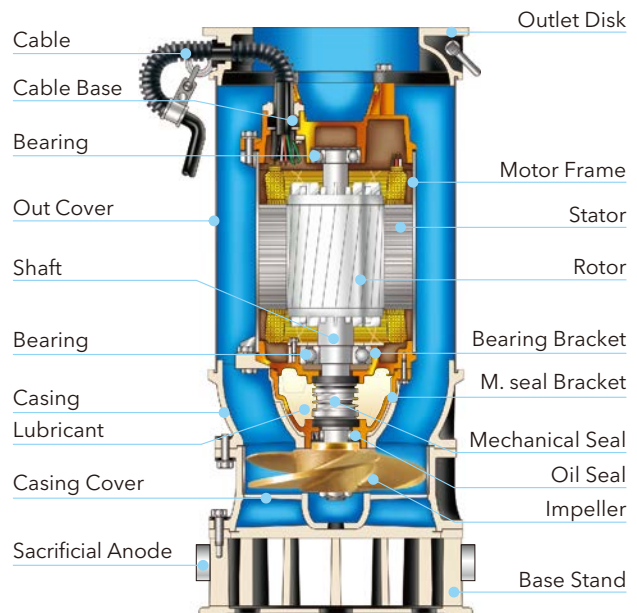
L-300B

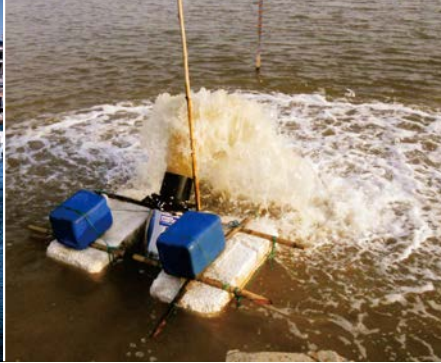


SACRIFICIAL ANODE

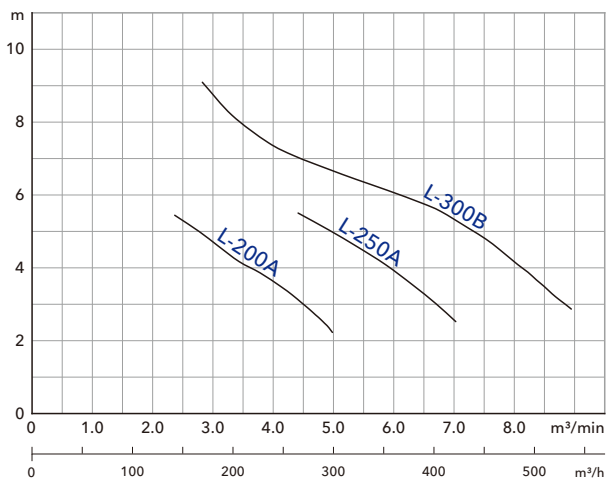
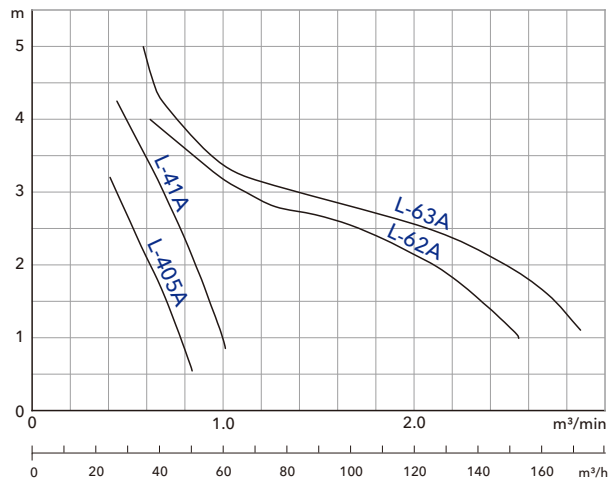
PRODUCT NOMENCLATURE

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





PERFORMANCE CURVES



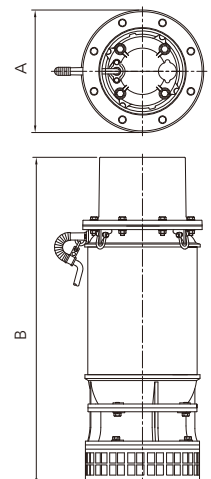
SPECIFICATIONS

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
	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
	Cable VCT or H07RN-F or SOW/STOW
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)	1 3	Capacitor DOL	1.5	0.7	42	10	25	25	225	478	478
L-41A	1(0.75)	3.5"(90) 4"(100)	1 3	Capacitor DOL	3.0	0.7	42	10	26	26	225	478	478
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

LH-65

LH-65

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

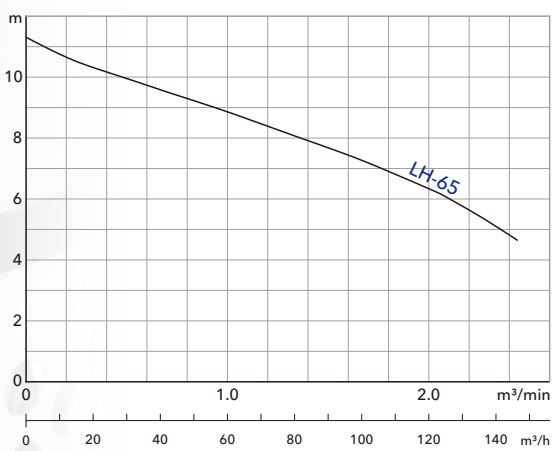
- Pumping and draining large volume water in aquaculture applications.
- Water supply for agricultural irrigation systems and underground water pumping.
- Civil engineering, dewatering, tunneling, groundworks, mining, and manhole sewer.
- Others: Extraction of water from dock and river.

SPECIFICATIONS

PRODUCT NOMENCLATURE

LH — 6 — 5
 Type Discharge HP
 inch

PERFORMANCE CURVES

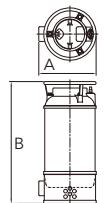


Item	Description
Limits of Use	Liquid Temp. 0~40°C (32~104°F) Applications Aquaculture • Agriculture irrigation River water • Construction sites
Type	Frequency 50Hz Motor 4P (1500rpm) • Dry Motor Insulation Class F Protection IP68 Protector Auto-cut Bearing Ball type M.seal Double M.seals Impeller Close
Material	Outer Cover SUS304 Upper Cover FC200 Motor Frame FC200 Shaft SUS304 M.seal CA/CE & SiC/SiC Casing FC200 Impeller Chrome Steel Strainer SUS304 Cable VCT or H07RN-F or SOW/STOW
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	3Ø
LH-65	5(3.7)	6"(150)	3	DOL	6.0	2.0	120	20	-	71	312	-	663

※ 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 · L405A/41A



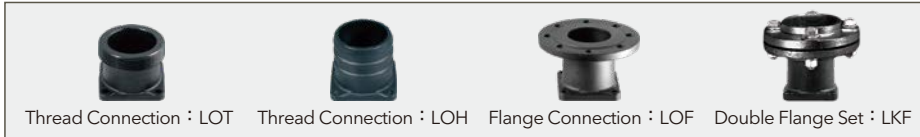
ACCESSORIES : ADAPTER

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.



Adapter Connection (ADTC)

Optional Outlet for IC-48~610



Optional Outlet for L-62A/L-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 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			
L-62A	2HP*6"	6" Female NPT / PF thread		-	
L-63A	3HP*6"	6" Female NPT / PF thread		-	
LH-65	5HP*6"	6" Female NPT / PF thread		-	
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	

※ Optional accessories on LOT, LOH, LKF, L2F. 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 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

OPTIONAL ADTC (ADAPTER CONNECTION) CASING - LH SERIES

Model	mm		Bolt Size
	DA	DB	
LH-65	110	175	M10x35L



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.

WITHOUT SACRIFICIAL ANODE :
5 months pumping in seawater applications









WITH SACRIFICIAL ANODE :
5 months pumping in seawater applications



* 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
	L-300B (Standard)		2	AC-R80	IC-32B/33B/43B /45B (Optional)		1
AC-LR80C	L-200A/250A (Standard)		2		IC-48/68/410/610 (Optional)		2

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



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