



IC/L&LH

SUBMERSIBLE DEWATERING PUMPS
SUBMERSIBLE LARGE VOLUME PUMPS

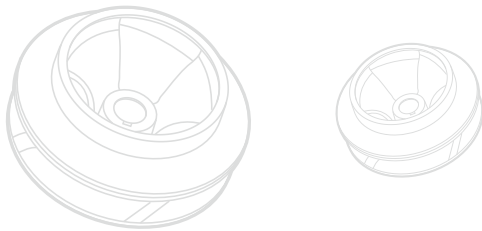
50Hz

make future flow

IC Series

SUBMERSIBLE DEWATERING PUMPS

- 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.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3000rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
Protector	Auto-cut
M.seal Type	Double M.seals
Impeller Type	Close

Item	Material
Outer Cover	SUS304 / X5CrNi18-10
Upper Cover	FC200 / GG-20
Motor Frame	FC200 / GG-20
Shaft	SUS403 / X5Cr13 • SUS304 / X5CrNi18-10
M.seal	CA/CE & SiC/SiC
Casing	FC200 / GG-20
Impeller	Chrome Steel
Cable	VCT or H07RN-F

PRODUCT NOMENCLATURE

IC — 3 2 B
Type Discharge HP Version
inch

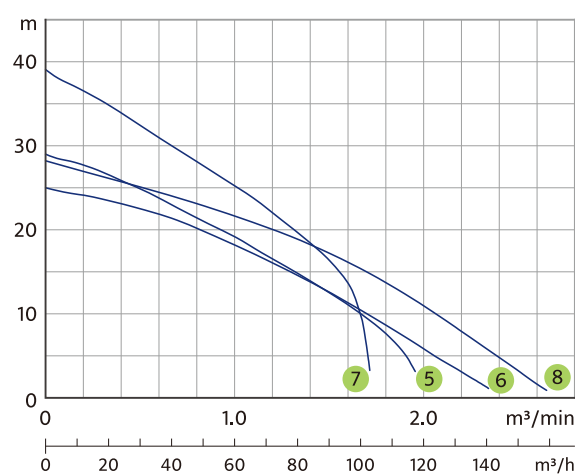
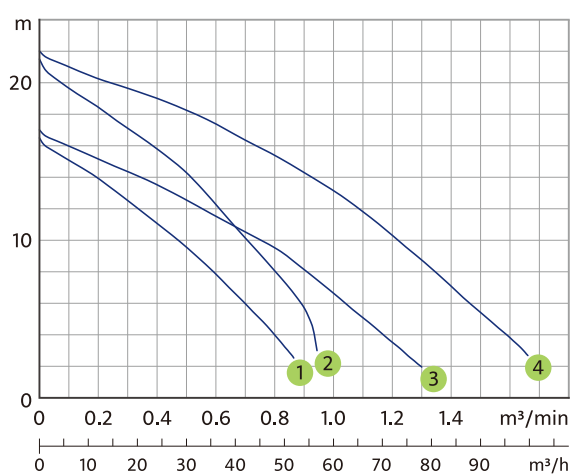
IC — 4 10
Type Discharge HP
inch

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



PERFORMANCE CURVES AND SPECS



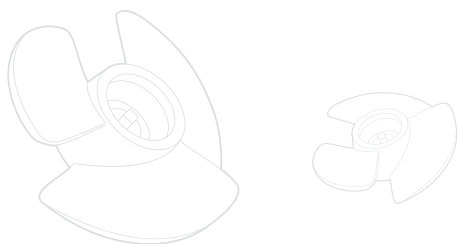
Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Weight kg	
					m-m³/min			1Ø	3Ø
1 IC-32B	2(1.5)	3"(80)	1	Capacitor	9.5-0.5	16.5-0.9	10	40	36
			3	DOL					
2 IC-33B	3(2.2)	3"(80)	1	Capacitor	14-0.5	21.5-1.0	10	45	39
			3	DOL					
3 IC-43B	3(2.2)	3.5"(90) 4"(100)	1	Capacitor	9.5-0.8	17-1.3	10	45	39
			3	DOL					
4 IC-45B	5(3.7)	3.5"(90) 4"(100)	3	DOL	13-1.0	22-1.7	10	-	44
5 IC-48	7.5(5.5)	4"(100)	3	DOL	19-1.0	29-2.0	10	-	75
6 IC-68	7.5(5.5)	6"(150)	3	DOL	12-1.5	25-2.4	10	-	78
7 IC-410	10(7.5)	4"(100)	3	DOL	25.5-1.0	38-1.85	10	-	80
8 IC-610	10(7.5)	6"(150)	3	DOL	17-1.5	28-2.65	10	-	81

※ Excludes Cable & Elbow Weight.

L Series

SUBMERSIBLE LARGE VOLUME PUMPS

- 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.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3000rpm)/4P(1500rpm) • Dry Motor
Insulation	Class B • Class F • Class H
Protection	IP68
Protector	Auto-cut • None
M.seal Type	Double M.seals
Impeller Type	Axial • Mixed flow
Item	Material
Outer Cover	SUS304 / X5CrNi18-10
Upper Cover	FC200 / GG-20 • BC6 / CuSn5Zn
Motor Frame	FC200 / GG-20 • SUS304 / X5CrNi18-10
Shaft	SUS304 / X5CrNi18-10
M.seal	CA/CE & SiC/SiC • CA/CE & CA/CE
Casing	FC200 / GG-20
Impeller	ALBC3 / G-A110Ni
Strainer	SUS304 / X5CrNi18-10
Cable	VCT or H07RN-F

PRODUCT NOMENCLATURE

$\frac{L}{\text{Type}}$ — $\frac{4}{\text{Discharge inch}}$ $\frac{1}{\text{HP}}$ $\frac{A}{\text{Version}}$

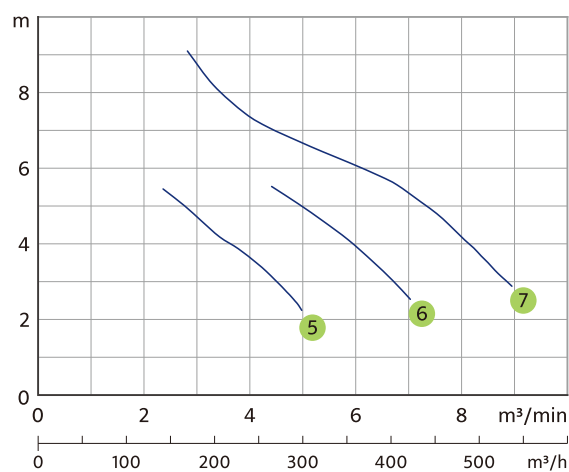
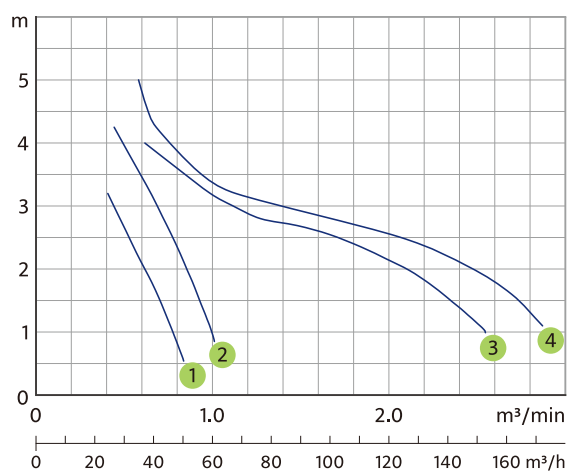
$\frac{L}{\text{Type}}$ — $\frac{200}{\text{Discharge inch}}$ $\frac{A}{\text{Version}}$

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



PERFORMANCE CURVES AND SPECS



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Weight kg	
					m-m³/min			1Ø	3Ø
① L-405A	0.5(0.4)	3,5"(90) 4"(100)	1	Capacitor	1.5-0.7	4-0.9	10	25	25
			3	DOL					
② L-41A	1(0.75)	3,5"(90) 4"(100)	1	Capacitor	3-0.7	5-1.1	10	26	26
			3	DOL					
③ L-62A	2(1.5)	6"(150)	3	DOL	2-2.0	4-2.7	20	-	51
④ L-63A	3(2.2)	6"(150)	3	DOL	2.5-2.0	5-3.0	20	-	52
⑤ L-200A	7.5(5.5)	8"(200)	3	DOL	4-3.5	6-5.5	22	-	116
⑥ L-250A	10(7.5)	10"(250)	3	DOL	4-5.5	6-7.5	22	-	157
⑦ L-300B	15(11)	10"(250) 12"(300)	3	DOL	5-7.0	15-9.0	33	-	198

※ Excludes Cable & Elbow Weight.

LH Series

SUBMERSIBLE LARGE VOLUME PUMPS

- 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.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	4P(1500rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
Protector	Auto-cut
M.seal Type	Double M.seals
Impeller Type	Close
Item	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

PRODUCT NOMENCLATURE

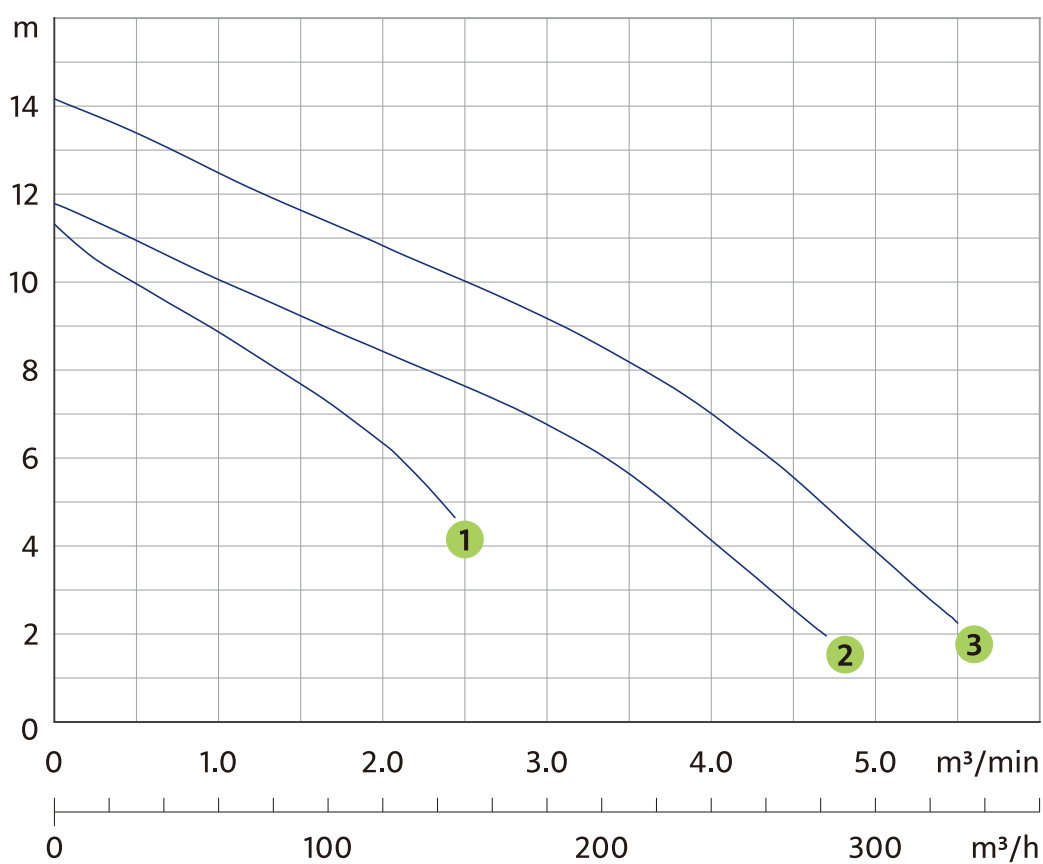
$$\frac{\text{LH}}{\text{Type}} - \frac{6}{\text{Discharge inch}} \frac{5}{\text{HP}}$$

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.



PERFORMANCE CURVES AND SPECS

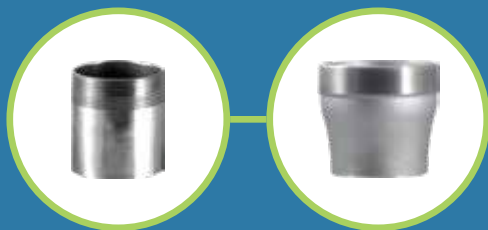


Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Weight kg
					m-m³/min			3Ø
1 LH-65	5(3.7)	6"(150)	3	DOL	6-2.0	11-3.2	20	71
2 LH-88	8(6.0)	8"(200)	3	DOL	5-3.5	11.5-4.7	20	136
3 LH-812	12(9.0)	8"(200)	3	DOL	7-4.0	14-5.5	20	143

※ Excludes Cable & Elbow Weight.

OPTIONAL OUTLET SET

Optional Outlet for IC-32B~45B



3" & 3.5"
Pump Outlet

4"
Pump Outlet

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



Double Flange Set:
L2F

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



Flange Connection:
LOF



6" PVC
Male Adapter

Optional Outlet for IC-48~610



Thread Connection:
LOT

Thread Connection:
LOH



Flange Connection:
LOF



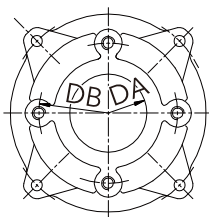
Double Flange Set:
LKF

Optional Outlet for LH88/812

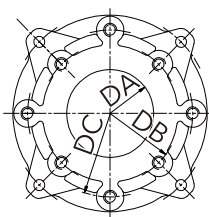


Flange Connection:
LTF

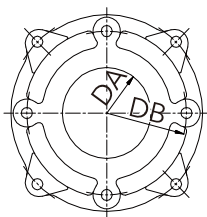
IC-32B • 33B



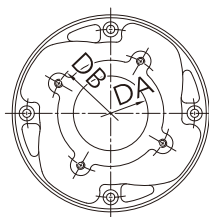
IC-43B • 45B



IC-48 • 68 • 410 • 610



LH-65 • 88 • 812



Standard Casing Cover - IC Series

Model	mm			Bolt Size
	DA	DB	DC	
IC-32B	67	125	-	M12x25L
IC-33B				
IC-43B	80	125	150	M12x25L
IC-45B				
IC-48	87	150	-	M12x25L
IC-410				
IC-68	97	175	-	M12x25L
IC-610				

Optional ADTC (Adapter Connection) Casing - LH Series

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

Product Nomenclature

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

LOF	—	4	127
Type	Discharge		PCD

IC Series Submersible Dewatering Pumps

Model	Specifications	Outlet Specifications		Flange 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&LH Series Large Volume Submersible Pumps

Model	Specifications	Threaded Outlet Specification	Flange 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.

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



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-LR80C	L-200A/250A (Standard)		2
	LH-88/812 (Standard)		2	AC-R80	IC-32B/33B/43B/45B (Optional)		1
	L-300B (Standard)		2		IC-48/68/410/610 (Optional)		2

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.



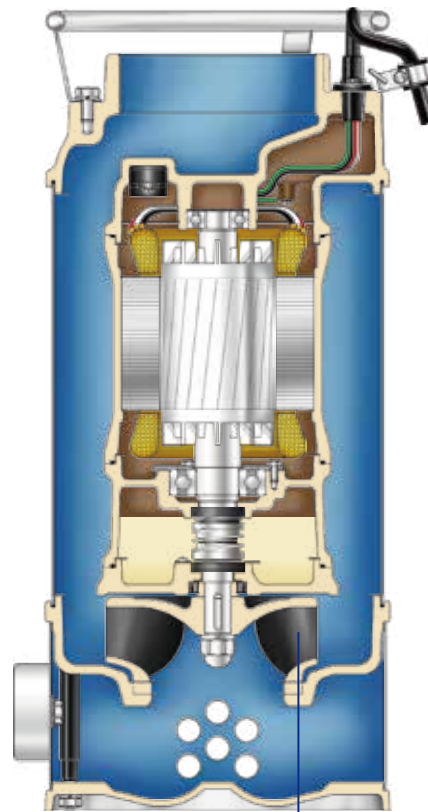
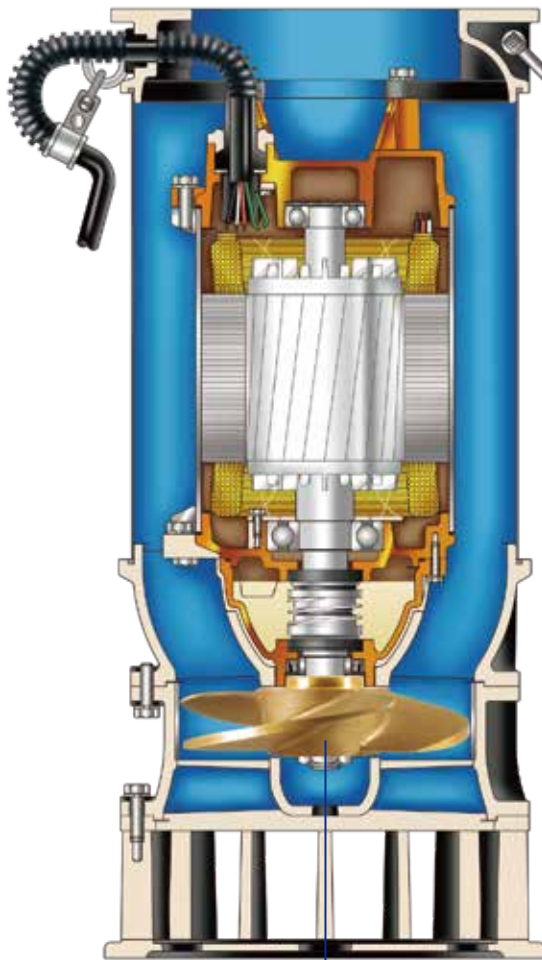
Adapter Connection (ADTC)



Without sacrificial anode :
5 months pumping in seawater applications



With sacrificial anode :
5 months pumping in seawater applications



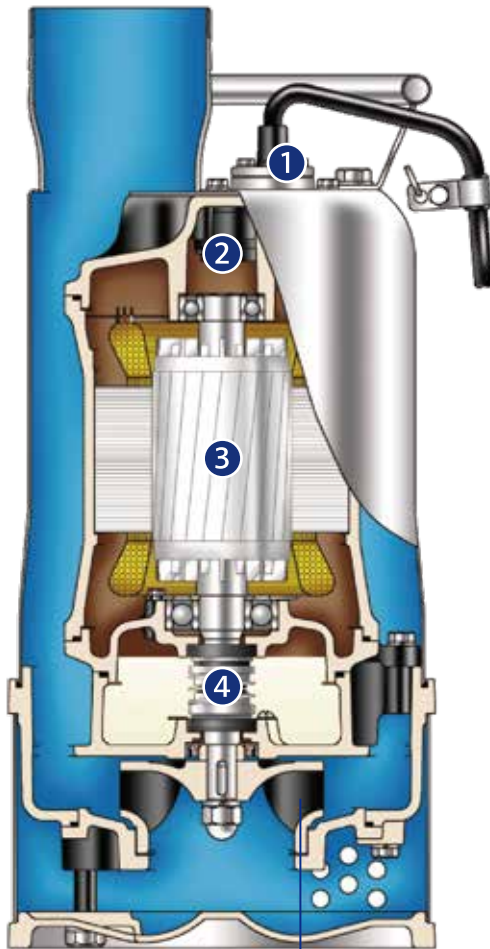
Axial / Mix flow Impeller



Close Impeller



PRODUCT FEATURES



Close Impeller

1 Epoxy Cable Base

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



2 Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. (No Auto-cut Protector for L-200A/250A/300B.)



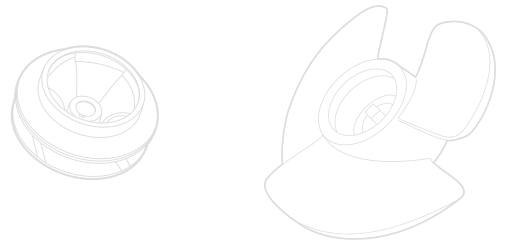
3 High Efficiency Dry Motors

All stator coils are treated with insulating varnish procedures to achieve the best insulation, efficiency and durability.



4 Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.



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

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DICLEN5-2506



 YouTube



**Selection
system**



Catalog