



IC/L&LH

SUBMERSIBLE DEWATERING PUMPS
SUBMERSIBLE LARGE VOLUME PUMPS

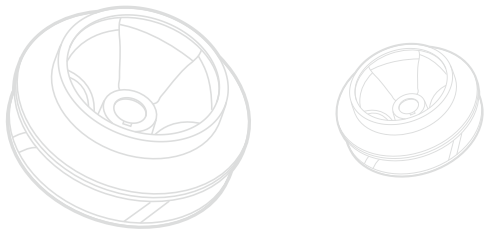
60Hz

make future flow

IC Series

SUBMERSIBLE DEWATERING PUMPS

- **Energy-Efficient Motor:** Water-cooled motor ensures reliable operation, reducing energy consumption.
- **Seal Protection:** Equipped with double mechanical seals and oil seal design using silicon-carbide for excellent wear and corrosion resistance.
- **High-Strength Impellers:** IC Series uses chrome steel impellers (HRC 30–35) for abrasion conditions in high heads and large flows.
- **Optional ADTC Adapter Connection:** Supports surface, inline, or deep well pumping (up to 8 meters) via an inline suction pipe for flexible installation.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3600rpm) • 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 / AISI 304
Upper Cover	FC200 / ASTM-30
Motor Frame	FC200 / ASTM-30
Shaft	SUS403 / ASTM 403 • SUS304 / AISI 304
M.seal	CA/CE & SiC/SiC
Casing	FC200 / ASTM-30
Impeller	Chrome Steel
Cable	VCT or SJOW/SOW

PRODUCT NOMENCLATURE

IC	—	3	2	B
Type		Discharge inch	HP	Version

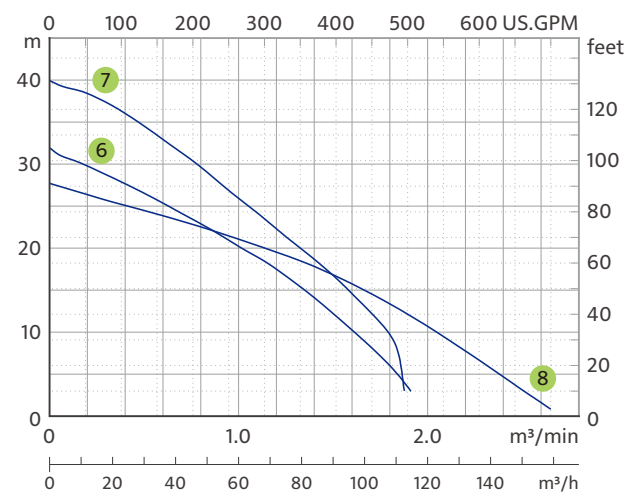
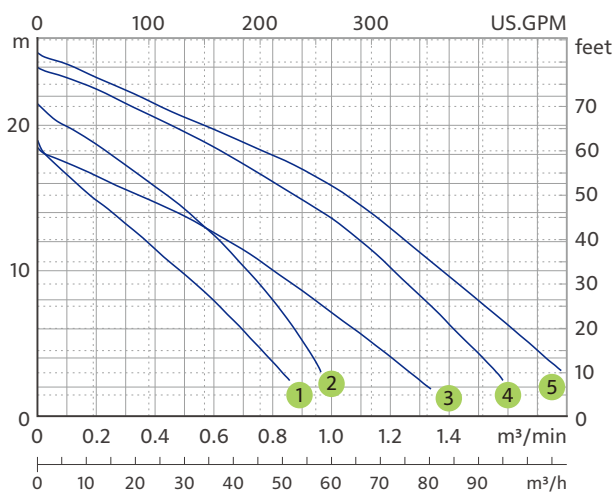
IC	—	4	10
Type		Discharge inch	HP

APPLICATIONS

- Aquaculture and fisheries
- Agricultural irrigation and drainage
- Landscaping, fountains, and large-scale water features
- Water circulation in ponds
- Industrial or site dewatering



PERFORMANCE CURVES AND SPECS



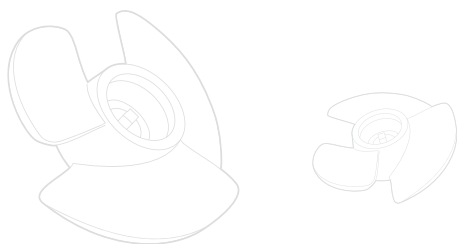
Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Weight kg(lb)	
					ft-GPM	ft-GPM		1Ø	3Ø
1 IC-32B	2(1.5)	3"(80)	1	Capacitor	31.2-132	62.3-238	10(3/8")	40(88)	36(79)
			3	DOL					
2 IC-33B	3(2.2)	3"(80)	1	Capacitor	45.9-132	70.5-264	10(3/8")	44(97)	39(86)
			3	DOL					
3 IC-43B	3(2.2)	3"(80) 3.5"(90) 4"(100)	1	Capacitor	31.2-212	60.7-355	10(3/8")	44(97)	39(86)
			3	DOL					
4 IC-45B	5(3.7)	3.5"(90) 4"(100)	3	DOL	42.7-264	78.7-420	10(3/8")	-	44(97)
5 IC-46B	6(4.5)	3.5"(90) 4"(100)	3	DOL	51-264	82-475	10(3/8")	-	44(97)
6 IC-48	7.5(5.5)	4"(100)	3	DOL	65.6-264	105-530	10(3/8")	-	71(157)
7 IC-410	10(7.5)	4"(100)	3	DOL	85.3-264	131.2-475	10(3/8")	-	79(174)
8 IC-610	10(7.5)	6"(150)	3	DOL	55.8-395	91.9-700	10(3/8")	-	81(179)

※ Excludes Cable & Elbow Weight.

L Series

SUBMERSIBLE LARGE VOLUME PUMPS

- High-efficiency axial/mixed flow impeller: optimized for large-volume pumping with reduced energy consumption, making it ideal for aquaculture and industrial applications.
- Epoxy-sealed cable base: prevents moisture ingress through the motor cable, enhancing durability in submerged environments.
- HIGH-QUALITY BRONZE: L-200A/250A/250LA/300B/1220B with a bronze Upper Cover, Bearing Bracket, and Mechanical Seal bracket to withstand corrosion and brine erosion, substantially extending pump life.
- Aluminum Bronze Impeller: Casted ALBC3 material impeller with superior abrasion and corrosion resistance.
- Equipped with a Sacrificial Anode to keep the pump material surface from corrosion and oxidation in a brine environment.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (3600rpm)/4P(1800rpm) • 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 / AISI 304
Upper Cover	FC200 / ASTM-30 • BC6 / C83600
Motor Frame	FC200 / ASTM-30 • SUS304 / AISI 304
Shaft	SUS304 / AISI 304
M.seal	CA/CE & SiC/SiC • CA/CE & CA/CE
Casing	FC200 / ASTM-30
Impeller	ALBC3 / C95800
Strainer	SUS304 / AISI 304
Cable	VCT or SJOW/SOW

PRODUCT NOMENCLATURE

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

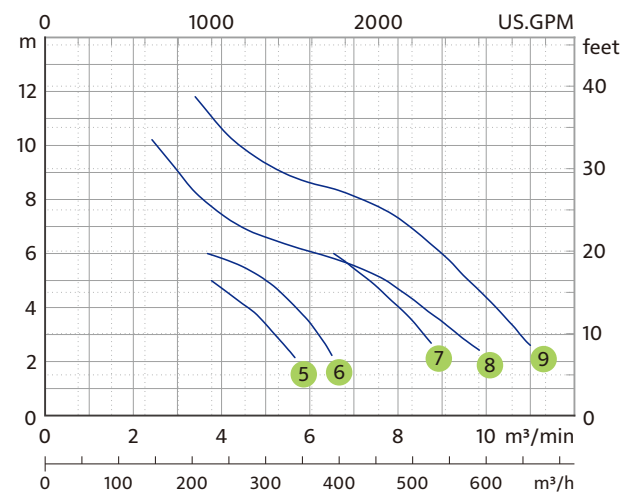
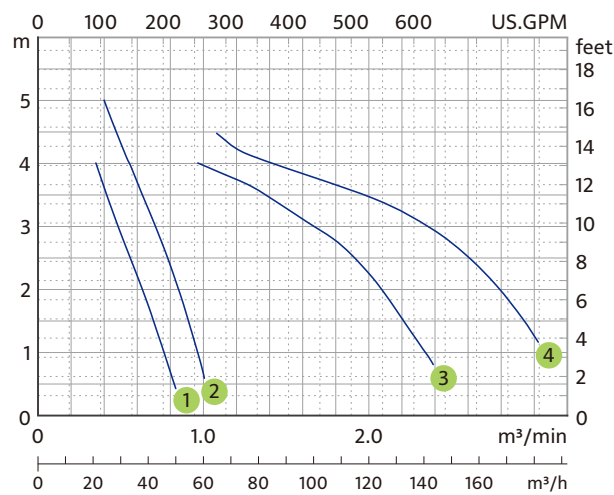
$\frac{L}{\text{Type}}$ — $\frac{200}{\text{Discharge inch}}$ $\frac{A}{\text{Version}}$

APPLICATIONS

- High-volume aquaculture water transfer
- Landscaping and industrial water supply
- Large-scale dewatering and flood mitigation
- Raw water intake from the sea, rivers, docks, or reservoirs
- Pond Water Circulation



PERFORMANCE CURVES AND SPECS



Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Weight kg(lb)	
					ft-GPM	ft-GPM		1Ø	3Ø
1 L-405A	0.5(0.4)	3.5"(90) 4"(100)	1	Capacitor	4.9-185	13.1-212	10(3/8")	25(55)	25(55)
			3	DOL					
2 L-41A	1(0.75)	3.5"(90) 4"(100)	1	Capacitor	9.8-185	16.4-250	10(3/8")	26(57)	26(57)
			3	DOL					
3 L-62A	2(1.5)	6"(150)	3	DOL	6.6-530	13.1-660	20(3/4")	-	51(112)
4 L-63A	3(2.2)	6"(150)	3	DOL	10.8-530	16.4-845	20(3/4")	-	52(115)
5 L-200A	7.5(5.5)	8"(200)	3	DOL	15-1060	19.5-1590	22(7/8")	-	119(262)
6 L-250A	10(7.5)	10"(250)	3	DOL	13-1450	20-1850	22(7/8")	-	162(357)
7 L-250LA	15(11)	10"(250)	3	DOL	13-2110	20-2380	22(7/8")	-	156(344)
8 L-300B	15(11)	10"(250) 12"(300)	3	DOL	18-1850	46-2640	33(1 1/4")	-	197(434)
9 L-1220B	20(15)	10"(250) 12"(300)	3	DOL	18-2380	62-2910	33(1 1/4")	-	210(463)

※ Excludes Cable & Elbow Weight.

LH Series

SUBMERSIBLE LARGE VOLUME PUMPS

- **High-Efficiency Impeller Design:** Specially engineered for high-head and long-distance water transfer, the LH impeller offers excellent hydraulic efficiency and significant energy savings.
- **Chrome Steel Impeller & Wear Plate:** Constructed with chrome steel (Rockwell hardness HRC 30–35) for enhanced durability and wear resistance.
- **Double Outer Casing and Water-Cooled Motor:** Supports continuous operation and optimal performance in low water level conditions by maintaining a stable motor temperature.
- **Sacrificial Anode Protection:** Adds corrosion defense in saltwater or brine environments—ideal for aquaculture applications.
- **Optional ADTC Adapter Connection:** Supports surface, inline, or deep well pumping via an inline suction pipe for flexible installation.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	4P(1800rpm) • 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 / 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

PRODUCT NOMENCLATURE

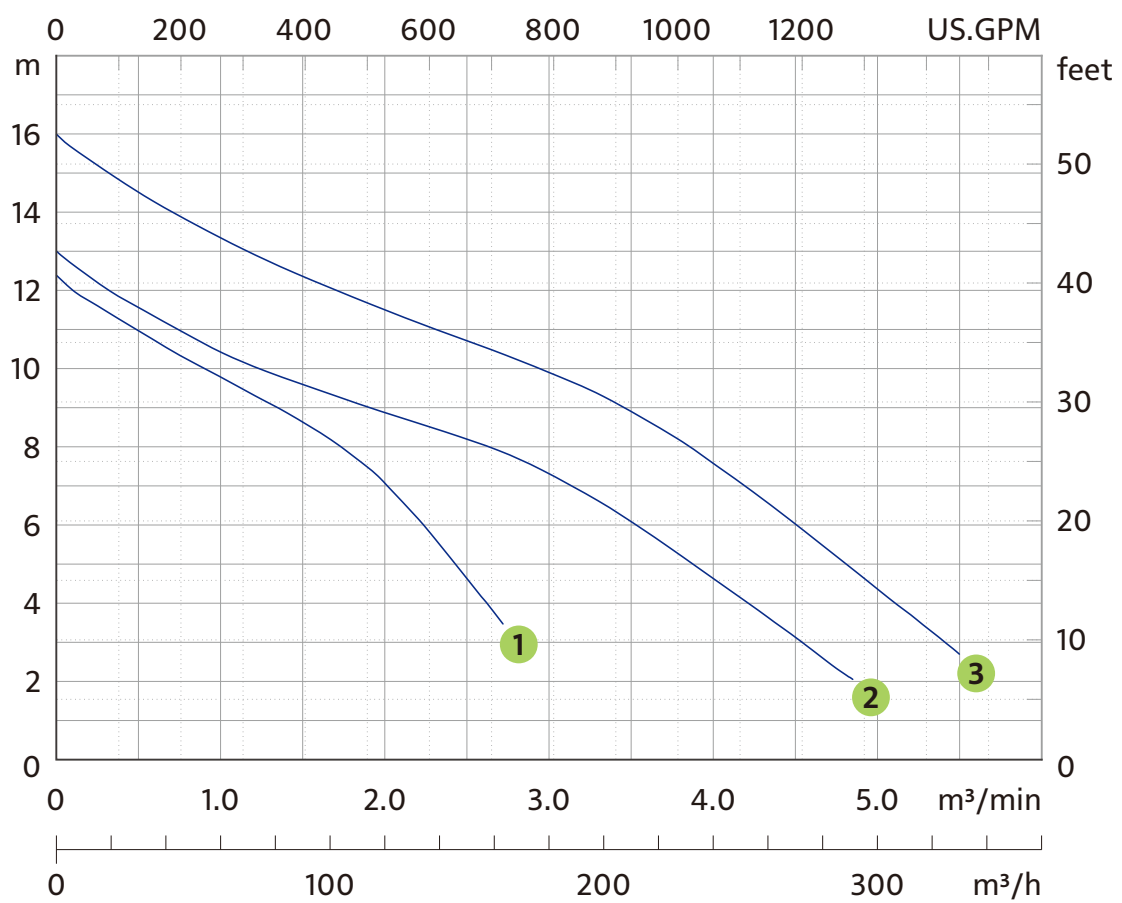
$$\frac{\text{LH}}{\text{Type}} - \frac{6}{\text{Discharge inch}} \frac{5}{\text{HP}}$$

APPLICATIONS

- Large volume water pumping and drainage in aquaculture
- Agricultural irrigation systems and underground water pumping
- Civil engineering, dewatering, tunneling, groundworks, mining, and manhole sewer
- Deep Well Aquaculture pumping (ADTC)
- Recirculation / Oxygenation



PERFORMANCE CURVES AND SPECS

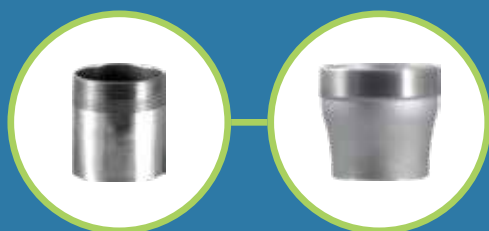


Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Weight kg(lb)
					ft-GPM	ft-GPM		3Ø
1 LH-65	5(3.7)	6"(150)	3	DOL	21.3-530	39.4-820	20(¾")	71(157)
2 LH-88	8(6.0)	8"(200)	3	DOL	18-950	42.7-1280	20(¾")	136(300)
3 LH-812	12(9.0)	8"(200)	3	DOL	23-1060	52.5-1450	20(¾")	143(315)

※ Excludes Cable & Elbow Weight.

OPTIONAL OUTLET SET

Optional Outlet for IC-32B~46B



3" & 3.5"
Pump Outlet

4"
Pump Outlet

Optional Outlet for IC-32B~46B & 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



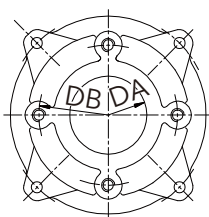
Double Flange Set:
LKF

Optional Outlet for LH88/812

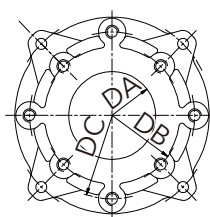


Flange Connection:
LTF

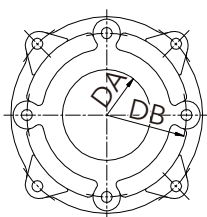
IC-32B • 33B



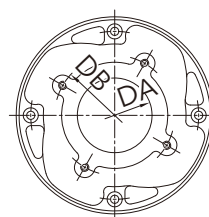
IC-43B • 45B



IC- 46B • 48 • 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-46B	90	150	-	M12x25L
IC-48	87	150	-	M12x25L
IC-410				
IC-610	97	175	-	M12x25L

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"	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	Double Flange Set
IC-48	7.5HP*4"	LOT4-127	LOF4-175-190*127	LKF4-175*127
IC-410	10HP*4"			
IC-610	10HP*6"	LOT6-127	LOF6-240*127	LKF6-240*127

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 / 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	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-250LA	15HP*10"	-	Including : LOP10-325	-	-
L-300B	15HP*10"	-	Including : LOP10(12)-389	-	-
	15HP*12"	-	Including : LOP12-389	-	-
L-1220B	20HP*10"	-	Including : LOP10(12)-389	-	-
	20HP*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/250(L)A (Standard)		2
	LH-88/812 (Standard)		2	AC-R80	IC-32B/33B/43B/45B/46B (Optional)		1
	L-300B/1220B (Standard)		2		IC-48/410/610 (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.



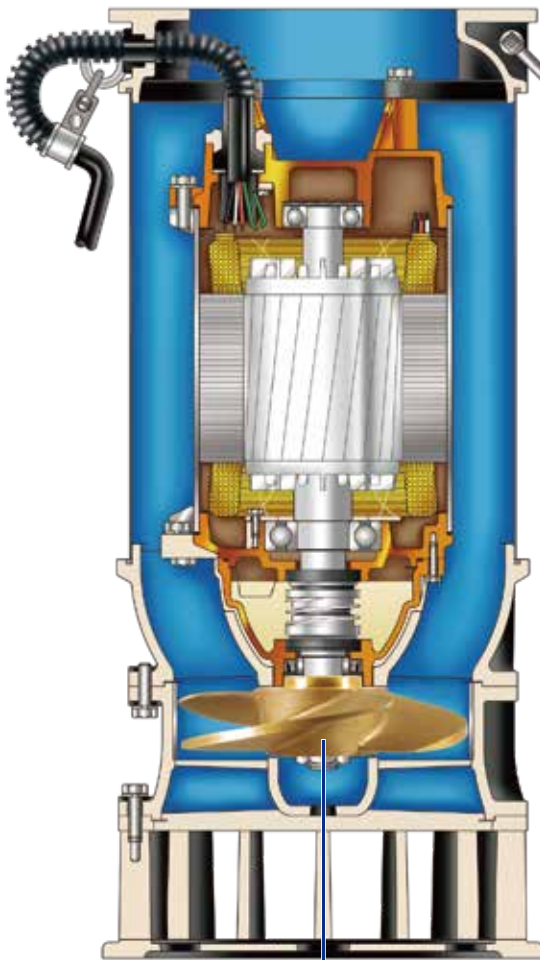
Adapter Connection (ADTC)



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 7.5~20HP.)



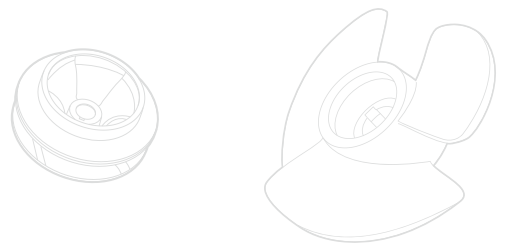
3 High Efficiency Dry Motors

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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DICLEN6-2509



YouTube



Selection
system



Catalog