



### ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS


Pump can be installed with 90 ° elbow , flange or guide rail system, for quick and safe installation, removal, replacement and maintenance.




ELBOW

GRS


### PRODUCT FEATURES




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



**Double Mechanical Seals**  
Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.



**Auto-cut Protector**  
Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



**High Efficiency Dry Motors**  
All stator coils need to be treated with insulating varnish procedure to achieving the best insulation, efficiency and durability.

※ Refer to product catalogue for features of specific pump model.



**HCP** Professionalism • Innovation • Service • Commitment  
**HCP PUMP MANUFACTURER CO., LTD.**  
[www.hcppump.com](http://www.hcppump.com)



Distributor:

DALEN0-2002

**AL** 50Hz & 60Hz  
**SERIES**  
**SUBMERSIBLE WASTEWATER / EFFLUENT PUMPS**



50AL21.5/22.2

80AL21.5/22.2/23.7A

80(100)AL25.5/27.5/211

# AL

## FEATURES

- Pump body is made of casting iron which make pump firm, and reliable.
- The thickness of High Solids Epoxy Coating can be greater than 100 μm. This heavy coating provides good resistance to salty sea water, industry wastewater and chemical fluid. The coating can be firmly attached to metals, such as iron and steel, and form an anti-corrosion layer on metal surface for preventing corrosion.
- HCP-designed high head and high efficient impeller which is particularly suitable for high-rise building and deep basement.
- Fully equipped including, epoxy resin sealed water-tight cable base, auto-cut motor protector and double set mechanical seal, All components are produced with strict quality control.

## APPLICATIONS

- Household usage and Industry wastewater.
- Rainwater harvesting and rain drainage.
- Agriculture irrigation.
- Landscape.
- Water supply for aquaculture farming.

## PRODUCT NOMENCLATURE

80	AL	2	1.5
Discharge mm	Type	Pole	kW

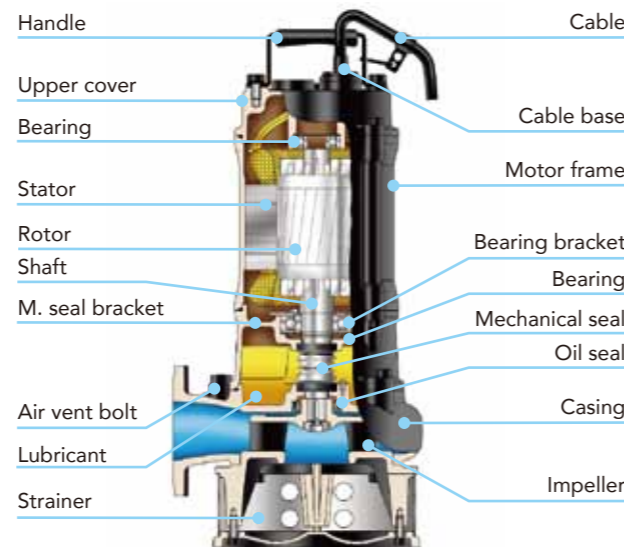
## IMPELLER



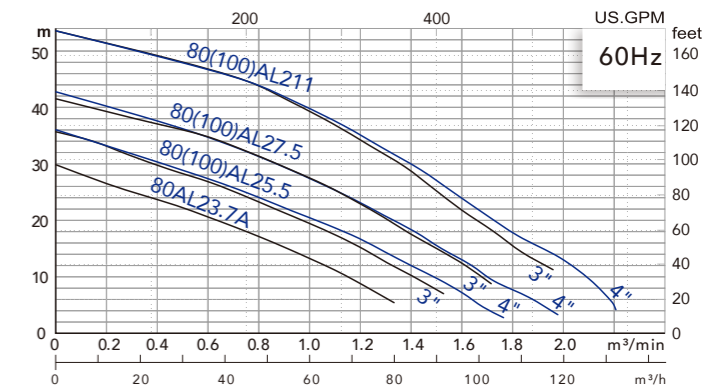
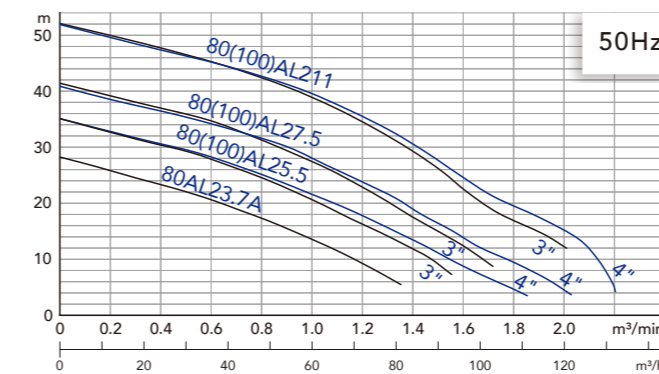
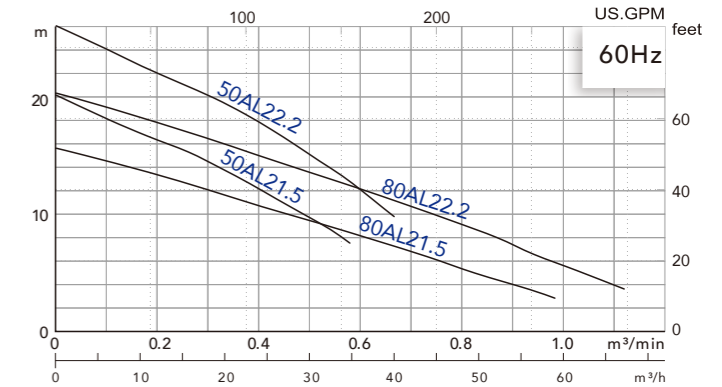
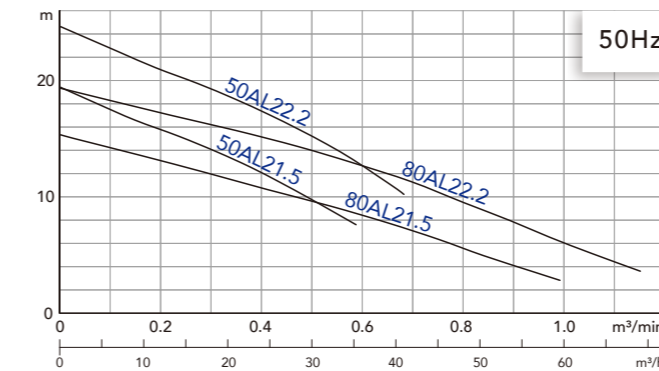
The P type impeller is a semi-open impeller which come with single or two vanes. The impeller is excellent to use with waste materials to prevent from clogging.

## SPECIFICATIONS

Item	Description	
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	General Wastewater Sewage and Industrial Water
Type	Frequency	50/60Hz
	Motor	2P (50Hz 3000rpm • 60Hz 3600rpm) • Dry Motor
	Insulation	Class F(2~5HP) • Class H (7.5~15HP)
	Protection	IP68
	Protector	Auto-cut(2~5HP 3Ø & 7.5~10HP) • MTS (5HP 1Ø) • MTS & MS(15HP)
	Bearing	Ball Type
	M.seal	Double M.seals
Material	Impeller	Open
	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS403 (2~10HP) • SUS420J2 (15HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FC200
	Cable	VCT or H07RN-F or SJOW/SOW
	Optional	Pumps can be customized to fit specifications



## PERFORMANCE CURVES



## PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.  
Star Method: Y-D = STAR-DELTA.

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Weight kg		Dimension mm																	
						m³/min	m³/h		1Ø	3Ø	A	B	C	1Ø	3Ø													
50AL21.5	2(1.5)	2"(50)	3	Capacitor Direct	12	0.4	24	20	35	31	278	-	212	565	514													
																1	20	31	278	-	212	598	514					
																3	17.5	0.4	24	20	38	34	278	-	212	598	514	
50AL22.2	3(2.2)	2"(50)	3	Capacitor Direct	17.5	0.4	24	20	38	34	278	-	212	598	514													
																1	20	37	32	391	249	214	575	520				
																3	8.5	0.6	36	20	37	32	391	249	214	575	520	
80AL21.5	2(1.5)	3"(80)	3	Capacitor Direct	12.5	0.6	36	20	39	35	391	249	214	602	520													
																1	20	39	35	391	249	214	602	520				
																3	20.5	0.6	36	20	-	49	470	278	242	-	578	
80AL23.7A	5(3.7)	3"(80)	3	Direct	28	0.6	36	20	-	75	534	342	290	-	689													
																1	21.5	1.0	60	20	-	534	565	342	290	-	689	
																3	34.5	0.6	36	20	-	81	534	565	342	290	-	689
80(100)AL25.5	7.5(5.5)	4"(100)	3	Direct	28	1.0	60	20	-	81	534	342	290	-	689													
																1	45	0.6	36	20	-	91	534	565	342	290	-	729
																3	39.5	1.0	60	20	-	91	534	565	342	290	-	729
80(100)AL27.5	10(7.5)	4"(100)	3	Direct	45	0.6	36	20	-	91	534	342	290	-	729													
																1	45	0.6	36	20	-	91	534	565	342	290	-	729
																3	39.5	1.0	60	20	-	91	534	565	342	290	-	729
80(100)AL211	15(11)	4"(100)	3	Y-D	45	0.6	36	20	-	91	534	342	290	-	729													
																1	45	0.6	36	20	-	91	534	565	342	290	-	729
																3	39.5	1.0	60	20	-	91	534	565	342	290	-	729

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimension mm																	
					m³/min	ft-GPM		1Ø	3Ø	A	B	C	1Ø	3Ø													
50AL21.5	2(1.5)	2"(50)	3	Capacitor Direct	12-0.4	39-105	20(3/4")	35(77)	31(68)	278	-	212	565	514													
															1	20	31	278	-	212	598	514					
															3	17.5-0.4	57-105	20(3/4")	38(84)	34(75)	278	-	212	598	514		
50AL22.2	3(2.2)	2"(50)	3	Capacitor Direct	17.5-0.4	57-105	20(3/4")	38(84)	34(75)	278	-	212	598	514													
															1	20	37	32	391	249	214	575	520				
															3	8-0.6	26-158	20(3/4")	37(82)	32(71)	391	249	214	575	520		
80AL21.5	2(1.5)	3"(80)	3	Capacitor Direct	12-0.6	39-158	20(3/4")	39(86)	35(77)	391	249	214	602	520													
															1	20	39	35	391	249	214	602	520				
															3	12-0.6	39-158	20(3/4")	39(86)	35(77)	391	249	214	602	520		
80AL22.2	3(2.2)	3"(80)	3	Capacitor Direct	20.5-0.6	67-158	20(3/4")	54(119)	49(108)	470	278	242	593	578													
															1	20	54	49	470	278	242	593	578				
															3	20.5-0.6	67-158	20(3/4")	54(119)	49(108)	470	278	242	593	578		
80AL23.7A	5(3.7)	3"(80)	3	Direct	26.5-0.6	87-158	20(3/4")	-	74(163)	534	342	290	-	689													
															1	20	74	74	534	565	342	290	-	689			
															3	20-1.0	66-265	20(3/4")	-	74(163)	534	565	342	290	-	689	
80(100)AL25.5	7.5(5.5)	4"(100)	3	Direct	34.5-0.6	113-160	20(3/4")	-	80(176)	534	342	290	-	689													
															1	27	1.0	89-265	20(3/4")	-	80(176)	534	565	342	290	-	689
															3	46-0.6	151-158	20(3/4")	-	90(198)	534	565	342	290	-	729	
80(100)AL27.5	10(7.5)	4"(100)	3	Direct	46-0.6	151-158	20(3/4")	-	90(198)	534	342	290	-	729													
															1	46-0.6	151-158	20(3/4")	-	90(198)	534	565	342	290	-	729	
															3	39.5-1.0	130-265	20(3/4")	-	90(198)	534	565	342	290	-	729	
80(100)AL211	15(11)	4"(100)	3	Y-D/Direct	46-0.6	151-158	20(3/4")	-	90(198)	534	342	290	-	729													
															1	46-0.6	151-158	20(3/4")	-	90(198)	534	565	342	290	-	729	
															3	39.5-1.0	130-265	20(3/4")	-	90(198)	534	565	342	290	-	729	

