

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



50AL21.5/22.2



80AL21.5/22.2



80AL23.7A



80(100)AL25.5/27.5/211/215

# AL

## FEATURES

- Casted iron body pump with 100~150m high solids epoxy coating offering the highest quality and performance.
- 5~20HP Triangular handle design for easy handling on Guide Rail System.
- Compact, high head, and high efficiency for wide range of use.
- Oil Elevation Disk design in the oil chamber to ensure the mechanical seals lubrication and to extend the service life of pump.
- Equipped with Auto-cut Protector, epoxy cable base treatment, double mechanical seals and lip seal design.

## APPLICATIONS

- All industry wastewater.
- Building rainwater drainage, flood water removal.
- River / lake water extraction.
- Landscaping, aquaculture and agriculture irrigation.

## PRODUCT NOMENCLATURE

80	AL	2	1.5
Discharge mm	Type	Pole	kW

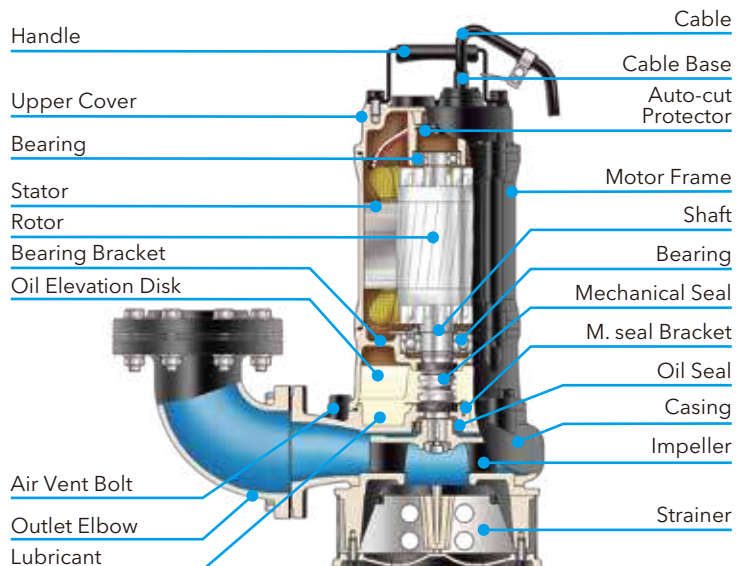
## IMPELLER



P type impeller is open and comes with one or two vanes. The impeller is excellent to use for waste materials to prevent clogging.

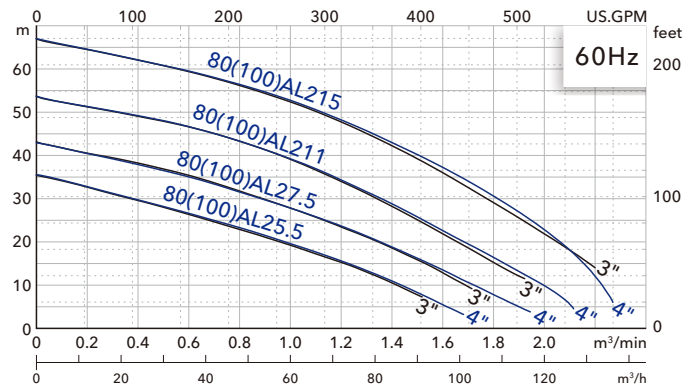
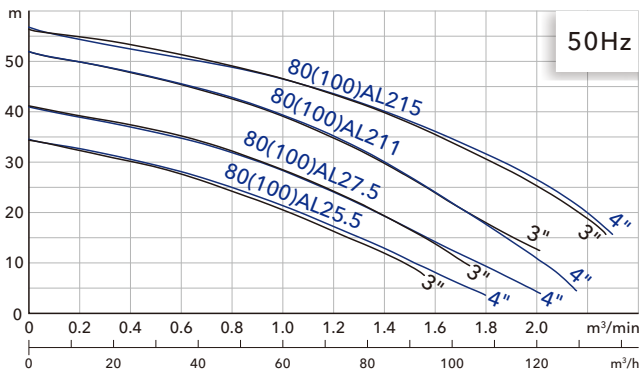
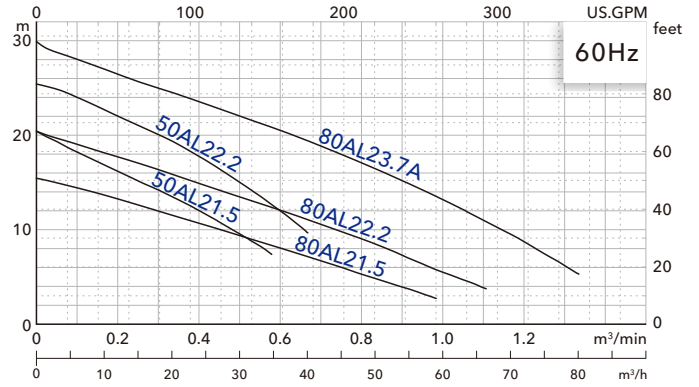
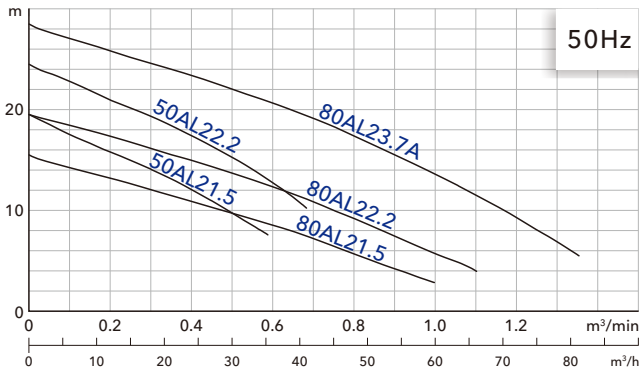
## SPECIFICATIONS

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 (7.5~20HP)
	Protection	IP68
	Protector	Auto-cut (1&3Ø 2~3HP, 3Ø 5~10HP) • MTS (1Ø 5HP) • MTS & MS(15~20HP)
	Bearing	Ball Type
	M.seal	Double M.seals
	Impeller	Open
Material	Upper Cover	FC200 / GG-20 / ASTM-30
	Motor Frame	FC200 / GG-20 / ASTM-30
	Shaft	SUS403 / X5Cr13 / ASTM 403 (2~10HP) • SUS420J2 / X30Cr13 / ASTM 420 F (15~20HP)
	M.seal	CA/CE & SiC/SiC
Material	Casing	FC200 / GG-20 / ASTM-30
	Impeller	FC200 / GG-20 / ASTM-30 (2~15HP) • SCS14 / G-X6CrNiMo1810 / A744 CF-8M (20HP)
	Footing	FC200 / GG-20 / ASTM-30
	Cable	VCT or H07RN-F or SJOW/SOW/SOOW
Optional	Pumps can be customized to fit specifications	





## PERFORMANCE CURVES

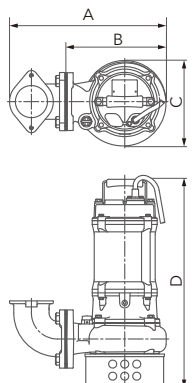


## PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.  
 Start Method : Y-D = STAR-DELTA  
 \*External Capacitor : Required external capacitors & start relay.

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	D		
														1Ø	3Ø	
50AL21.5	2(1.5)	2"(50)	1	Capacitor	12	0.4	24	20	35	31	278	-	212	565	514	
			3													DOL
50AL22.2	3(2.2)	2"(50)	1	Capacitor	17.5	0.4	24	20	38	34	278	-	212	598	514	
			3													DOL
80AL21.5	2(1.5)	3"(80)	1	Capacitor	8.5	0.6	36	20	37	32	391	249	214	575	520	
			3													DOL
80AL22.2	3(2.2)	3"(80)	1	Capacitor	12.5	0.6	36	20	39	35	391	249	214	602	520	
			3													DOL
80AL23.7A	5(3.7)	3"(80)	3	DOL	20.5	0.6	36	20	-	49	470	278	242	-	595	
80(100)AL25.5	7.5(5.5)	3"(80)	3	DOL	28	0.6	36	20	-	75	534	342	290	-	689	
		4"(100)			21.5	1.0	60				565					
80(100)AL27.5	10(7.5)	3"(80)	3	DOL	35	0.6	36	20	-	81	534	342	290	-	689	
		4"(100)			28	1.0	60				565					
80(100)AL211	15(11)	3"(80)	3	Y-D/DOL	45	0.6	36	20	-	91	534	342	290	-	729	
		4"(100)			39	1.0	60				565					
80(100)AL215	20(15)	3"(80)	3	Y-D/DOL	49	0.8	48	20	-	102	534	342	290	-	769	
		4"(100)			43.5	1.2	72				565					

Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Weight kg(lb)		Dimension mm					
					m-m³/min	ft-GPM		1Ø	3Ø	A	B	C	D		
													1Ø	3Ø	
50AL21.5	2(1.5)	2"(50)	1	Capacitor	12-0.4	39.4-105	20(3/4")	35(77)	31(68)	278	-	212	565	514	
			3		DOL										
50AL22.2	3(2.2)	2"(50)	1	Capacitor	17.5-0.4	57.4-105	20(3/4")	38(84)	34(75)	278	-	212	598	514	
			3		DOL										
80AL21.5	2(1.5)	3"(80)	1	Capacitor	8-0.6	26.2-158	20(3/4")	37(82)	32(71)	391	249	214	575	520	
			3		DOL										
80AL22.2	3(2.2)	3"(80)	1	Capacitor	12-0.6	39.4-158	20(3/4")	39(86)	35(77)	391	249	214	602	520	
			3		DOL										
80AL23.7A	5(3.7)	3"(80)	1	*External Capacitor	20.5-0.6	67.3-158	20(3/4")	54(119)	49(108)	470	278	242	610	595	
			3		DOL										
80(100)AL25.5	7.5(5.5)	3"(80)	3	DOL	26.5-0.6	86.9-158	20(3/4")	-	74(163)	534	342	290	-	689	
		4"(100)			20-1.0	65.6-264				565					
80(100)AL27.5	10(7.5)	3"(80)	3	DOL	35-0.6	114.8-160	20(3/4")	-	80(176)	534	342	290	-	689	
		4"(100)			27-1.0	88.6-264				565					
80(100)AL211	15(11)	3"(80)	3	Y-D/DOL	46-0.6	150.9-158	20(3/4")	-	90(198)	534	342	290	-	729	
		4"(100)			39-1.0	128-264				565					
80(100)AL215	20(15)	3"(80)	3	Y-D/DOL	57-0.7	187.0-185	20(3/4")	-	101(223)	534	342	290	-	769	
		4"(100)			47-1.2	154.2-315				565					





## ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

AL pumps can be installed with 90° Elbow Flange outlet or GRS guide rail system, to have easier/safer installation or removal during 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 is 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 are treated with insulating varnish procedures to achieve the best insulation, efficiency and durability.

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



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