

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 100~150μm 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

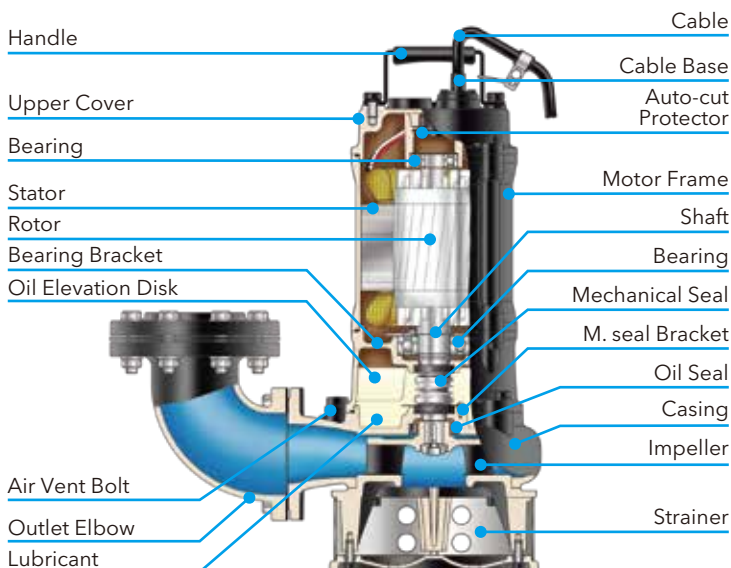
IMPELLER



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

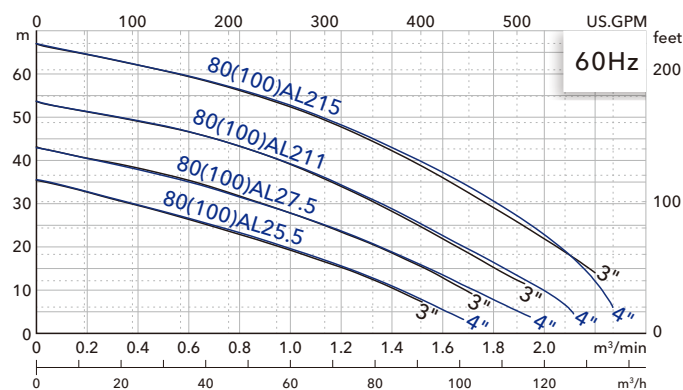
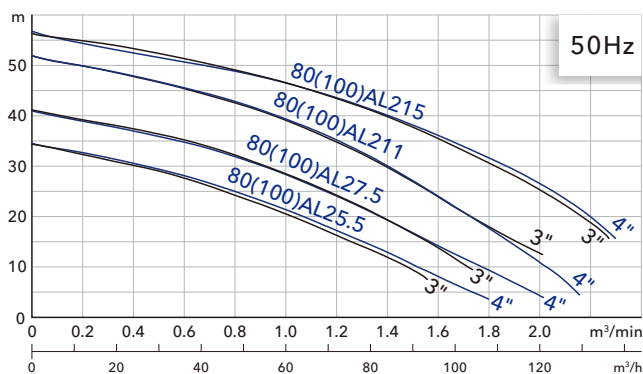
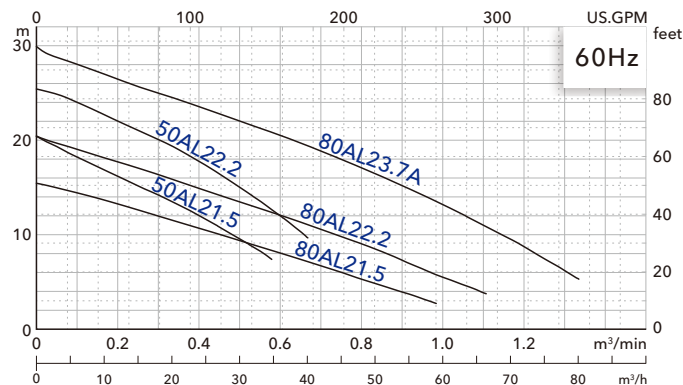
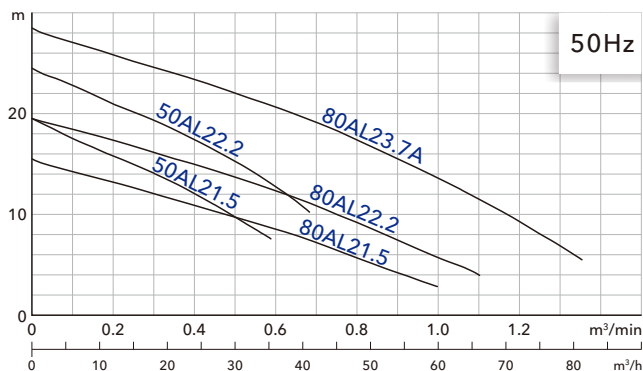
SPECIFICATIONS

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
	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



※ Note : Weight Without Cable & Elbow Set.
Start Method : Y-D = STAR-DELTA
*External Capacitor : Required external capacitors & start relay.
Casing type : V stands for Vertical and H for Horizontal.

PERFORMANCE SPECS.

	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Standard		Solid Passage mm	Casing Type	Weight kg	
							m³/min	m³/h			1Ø	3Ø
50Hz	50AL21.5	2(1.5)	2"(50)	1	Capacitor	12	0.4	24	20	V	35	31
				3	DOL							
	50AL22.2	3(2.2)	2"(50)	1	Capacitor	17.5	0.4	24	20	V	38	34
				3	DOL							
	80AL21.5	2(1.5)	3"(80)	1	Capacitor	8.5	0.6	36	20	H	37	32
				3	DOL							
	80AL22.2	3(2.2)	3"(80)	1	Capacitor	12.5	0.6	36	20	H	39	35
				3	DOL							
	80AL23.7A	5(3.7)	3"(80)	3	DOL	20.5	0.6	36	20	H	-	49
	80(100)AL25.5	7.5(5.5)	3"(80) 4"(100)	3	DOL	28 21.5	0.6 1.0	36 60	20	H	-	75
50Hz	80(100)AL27.5	10(7.5)	3"(80) 4"(100)	3	DOL	35 28	0.6 1.0	36 60	20	H	-	81
	80(100)AL211	15(11)	3"(80) 4"(100)	3	Y-D/DOL	45 39	0.6 1.0	36 60	20	H	-	91
	80(100)AL215	20(15)	3"(80) 4"(100)	3	Y-D/DOL	49 43.5	0.8 1.2	48 72	20	H	-	102

	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard		Solid Passage mm(inch)	Casing Type	Weight kg(lb)	
						m-m³/min	ft-GPM			1Ø	3Ø
60Hz	50AL21.5	2(1.5)	2"(50)	1	Capacitor	12-0.4	39.4-105	20(¾")	V	35(77)	31(68)
				3	DOL						
	50AL22.2	3(2.2)	2"(50)	1	Capacitor	17.5-0.4	57.4-105	20(¾")	V	38(84)	34(75)
				3	DOL						
	80AL21.5	2(1.5)	3"(80)	1	Capacitor	8-0.6	26.2-158	20(¾")	H	37(82)	32(71)
				3	DOL						
	80AL22.2	3(2.2)	3"(80)	1	Capacitor	12-0.6	39.4-158	20(¾")	H	39(86)	35(77)
				3	DOL						
	80AL23.7A	5(3.7)	3"(80)	1	*External Capacitor	20.5-0.6	67.3-158	20(¾")	H	54(119)	49(108)
				3	DOL						
60Hz	80(100)AL25.5	7.5(5.5)	3"(80) 4"(100)	3	DOL	26.5-0.6 20-1.0	86.9-158 65.6-264	20(¾")	H	-	74(163)
	80(100)AL27.5	10(7.5)	3"(80) 4"(100)	3	DOL	35-0.6 27-1.0	114.8-160 88.6-264	20(¾")	H	-	80(176)
	80(100)AL211	15(11)	3"(80) 4"(100)	3	Y-D/DOL	46-0.6 39-1.0	150.9-158 128-264	20(¾")	H	-	90(198)
	80(100)AL215	20(15)	3"(80) 4"(100)	3	Y-D/DOL	57-0.7 47-1.2	187.0-185 154.2-315	20(¾")	H	-	101(223)



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.



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 vanish procedures to achieve the best insulation, efficiency and durability.

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



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