



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

AL

FEATURES

- Casted iron body pump with 100~150µm high solids epoxy coating offering the highest quality and performance.
- 5~15HP 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 oil seal design.

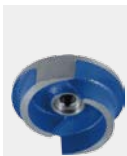
APPLICATIONS

- 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

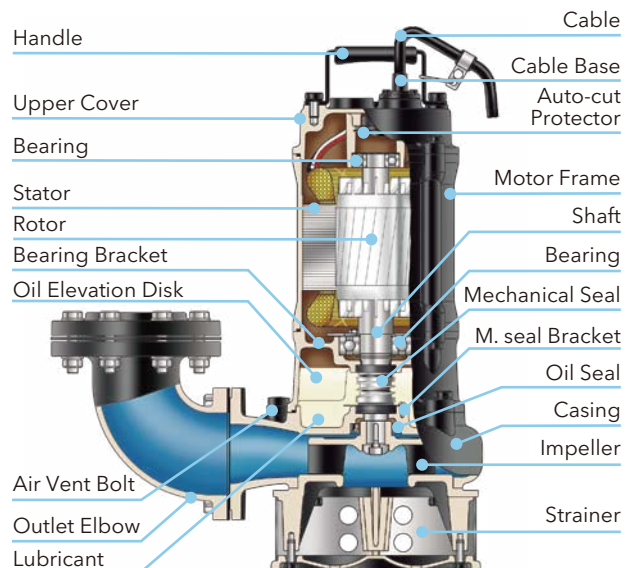
IMPELLER



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

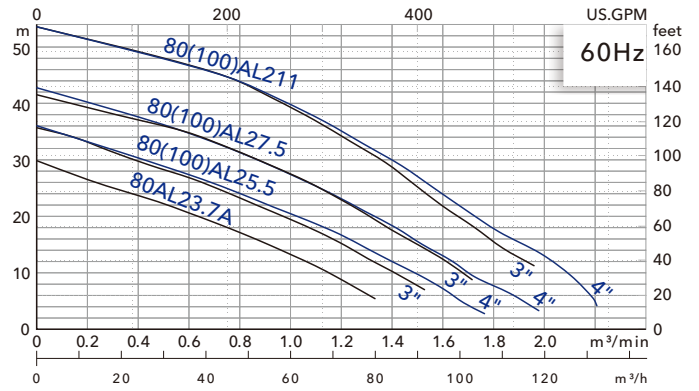
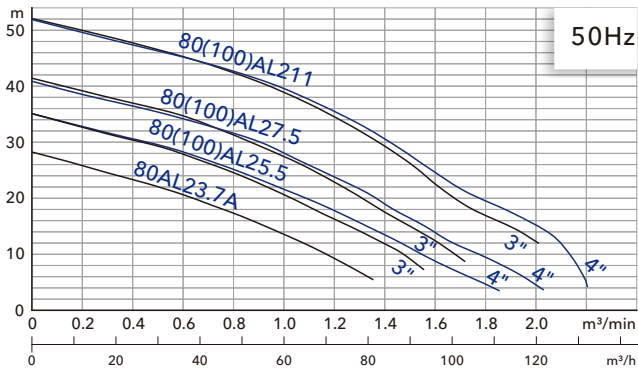
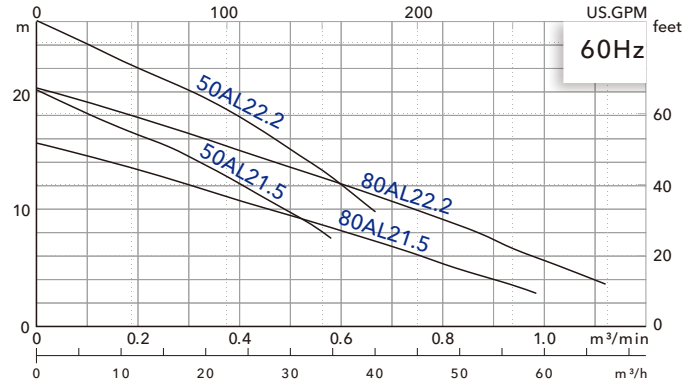
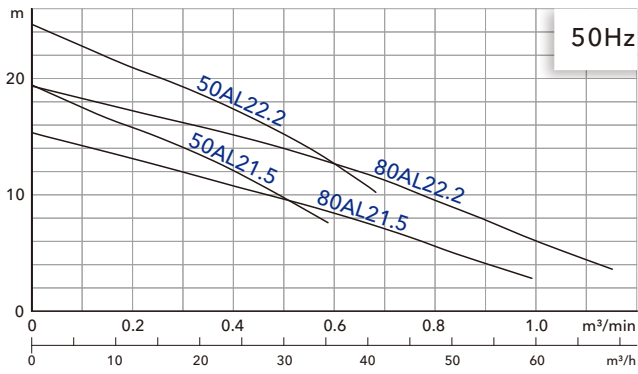
SPECIFICATIONS

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 (7.5~15HP)
	Protection	IP68
	Protector	Auto-cut (1&3Ø 2~3HP, 3Ø 5~10HP) • MTS (5HP 1Ø) • MTS & MS(15HP)
	Bearing	Ball Type
	M.seal	Double M.seals
	Impeller	Open
Material	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	





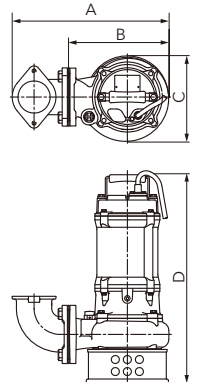
PERFORMANCE CURVES



PERFORMANCE SPECS.

	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	
50Hz	50AL21.5	2(1.5)	2"(50)	1/3	Capacitor DOL	12	0.4	24	20	35	31	278	-	212	565	514
	50AL22.2	3(2.2)	2"(50)	1/3	Capacitor DOL	17.5	0.4	24	20	38	34	278	-	212	598	514
	80AL21.5	2(1.5)	3"(80)	1/3	Capacitor DOL	8.5	0.6	36	20	37	32	391	249	214	575	520
	80AL22.2	3(2.2)	3"(80)	1/3	Capacitor DOL	12.5	0.6	36	20	39	35	391	249	214	602	520
	80AL23.7A	5(3.7)	3"(80)	3	DOL	20.5	0.6	36	20	-	49	470	278	242	-	578
	80(100)AL25.5	7.5(5.5)	3"(80) 4"(100)	3	DOL	28 21.5	0.6 1.0	36 60	20	-	75	534 565	342	290	-	689
	80(100)AL27.5	10(7.5)	3"(80) 4"(100)	3	DOL	34.5 28	0.6 1.0	36 60	20	-	81	534 565	342	290	-	689
	80(100)AL211	15(11)	3"(80) 4"(100)	3	Y-D/DOL	45 39.5	0.6 1.0	36 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				
						m-m³/min	ft-GPM		1Ø	3Ø	A	B	C	D	
60Hz	50AL21.5	2(1.5)	2"(50)	1/3	Capacitor DOL	12-0.4	39-105	20(3/4")	35(77)	31(68)	278	-	212	565	514
	50AL22.2	3(2.2)	2"(50)	1/3	Capacitor DOL	17.5-0.4	57-105	20(3/4")	38(84)	34(75)	278	-	212	598	514
	80AL21.5	2(1.5)	3"(80)	1/3	Capacitor DOL	8-0.6	26-158	20(3/4")	37(82)	32(71)	391	249	214	575	520
	80AL22.2	3(2.2)	3"(80)	1/3	Capacitor DOL	12-0.6	39-158	20(3/4")	39(86)	35(77)	391	249	214	602	520
	80AL23.7A	5(3.7)	3"(80)	1/3	*External Capacitor DOL	20.5-0.6	67-158	20(3/4")	54(119)	49(108)	470	278	242	593	578
	80(100)AL25.5	7.5(5.5)	3"(80) 4"(100)	3	DOL	26.5-0.6 20-1.0	87-158 66-265	20(3/4")	-	74(163)	534 565	342	290	-	689
	80(100)AL27.5	10(7.5)	3"(80) 4"(100)	3	DOL	34.5-0.6 27-1.0	113-160 89-265	20(3/4")	-	80(176)	534 565	342	290	-	689
	80(100)AL211	15(11)	3"(80) 4"(100)	3	Y-D/DOL	46-0.6 39.5-1.0	151-158 130-265	20(3/4")	-	90(198)	534 565	342	290	-	729



※ Note : Weight Without Cable & Elbow Set.

Start Method : Y-D = STAR-DELTA

*External Capacitor : Required external capacitors & start relay.



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

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



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



Distributor:

DALEN0-2103