

AL SERIES

WASTEWATER/EFFLUENT SUBMERSIBLE PUMPS

POWER : 2~15HP (1.5~11kW)

MAX.HEAD : 178feet (54m)

MAX.FLOW : 595US.GPM (2.25m³/min)



PRODUCT NOMENCLATURE

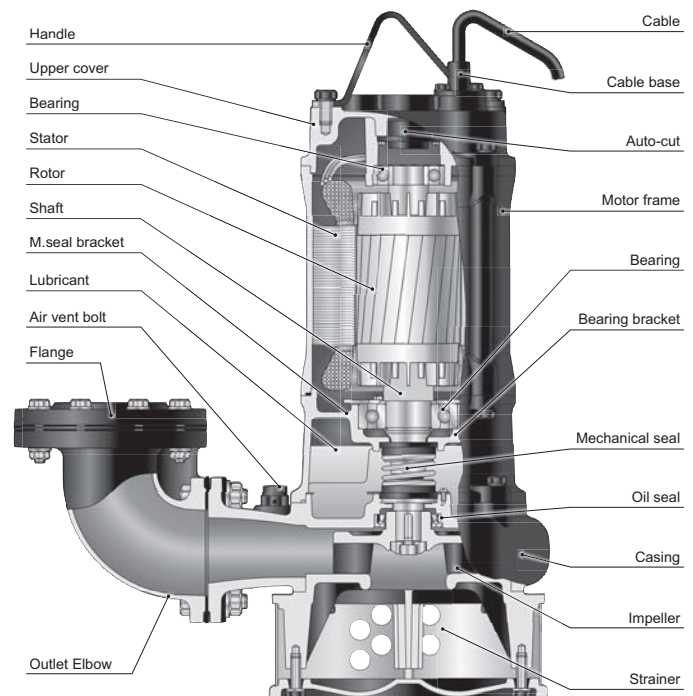
Example : 80 AL 2 1.5
 Discharge Type Pole kW
 mm

FEATURE

- Equipped with Auto-cut, silicon carbide double mechanical seal, epoxy cable base treatment.
- Entire cast iron structure and compact design.
- Available with guide rail system.
- High head and efficiency for wide range design.

APPLICATIONS

- Waste water drainage for all industries.
- Pumping surface water, drainage water and flood water.
- Extraction of water from river and lake



AL SERIES WASTEWATER/EFFLUENT SUBMERSIBLE PUMPS

50AL21.5 · 80AL21.5 · 50AL22.2 · 80AL22.2 · 80AL23.7A

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	General Wastewater Sewage and Industrial Water
Type	Frequency	60Hz
	Motor	2P(3600rpm) · Dry Motor
	Insulation	Class B (5HP:Class F)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft End	SUS403
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FC200
	Cable	VCT or H07RN-F or SJOW/SOW
Optional		—



50AL21.5 · 50AL22.2



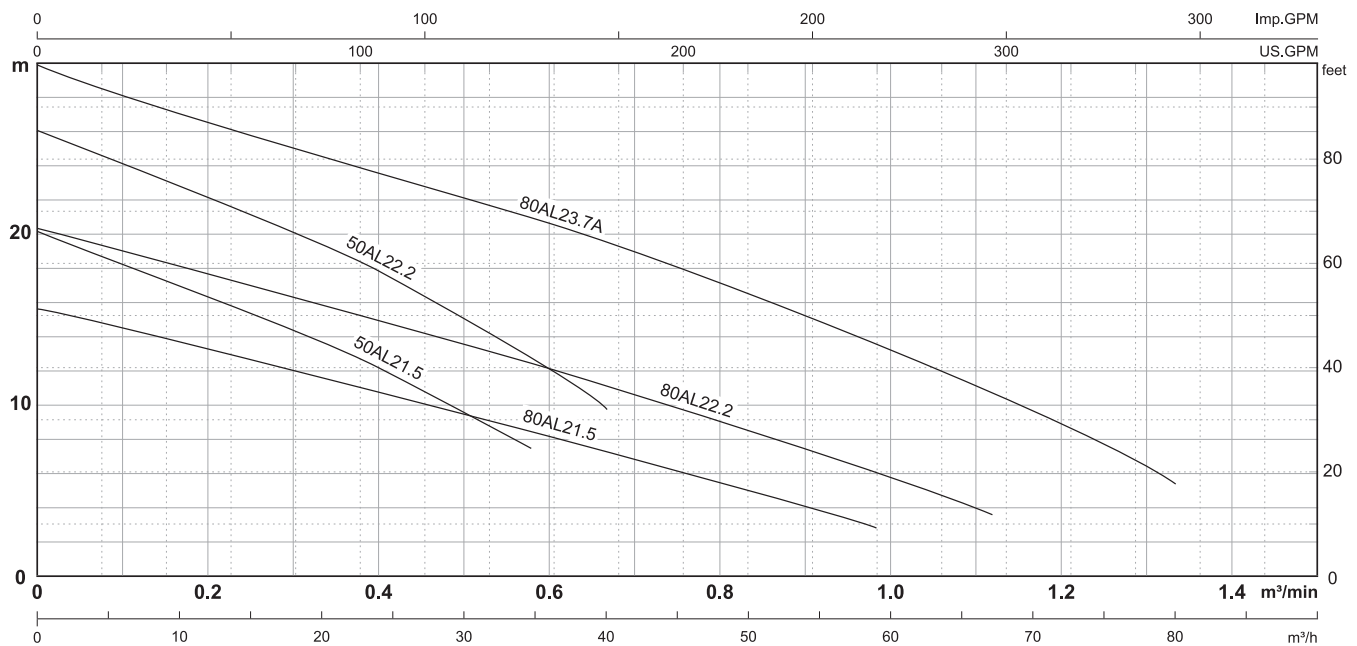
Semi-open Impeller



80AL21.5 · 80AL22.2 · 80AL23.7A

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lb)	3Ø-kg(lb)		110V	220V	220V	230V	380V	460V	575V
50AL21.5	2(1.5)	2"(50)	12-0.4	40-106	20.5-0.65	65-172	20(3/4")	35(77)	31(68)	Fullload Ampere	—	10.0	6.0	6.0	3.4	3.0	2.4
80AL21.5	2(1.5)	3"(80)	8-0.6	26-160	15.5-1.0	51-265	20(3/4")	37(82)	32(71)		—	10.0	6.0	6.0	3.4	3.0	2.4
50AL22.2	3(2.2)	2"(50)	17.5-0.4	58-106	25.5-0.75	85-198	20(3/4")	38(84)	34(75)		—	14.6	8.6	8.4	4.8	4.2	3.4
80AL22.2	3(2.2)	3"(80)	12-0.6	40-160	20.5-1.1	68-290	20(3/4")	39(86)	35(77)		—	14.6	8.6	8.4	4.8	4.2	3.4
80AL23.7A	5(3.7)	3"(80)	20.5-0.6	68-160	30-1.35	100-360	20(3/4")	—	49(108)		—	—	13.8	13.6	7.8	6.8	5.4

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet	20'	30'	40'	50'	60'	70'	80'	90'	Q:m³/min	0.1	0.2	0.3	0.4	0.6	0.8	1	1.2
												Q:m³/h	6	12	18	24	36	48	60	72
50AL21.5	2(1.5)	2"(50)	Q:US.GPM	—	136	106	68	26	—	—	—	H:m	18.2	16.3	14.4	12.2	—	—	—	—
80AL21.5	2(1.5)	3"(80)		199	139	76	10	—	—	—	—		14.6	13.3	12.0	10.8	8.2	5.5	—	—
50AL22.2	3(2.2)	2"(50)		—	—	158	130	101	63	23	—		24.2	22.2	21.1	17.8	12.2	—	—	—
80AL22.2	3(2.2)	3"(80)		259	210	158	100	41	—	—	—		19.0	17.7	16.4	15.0	12.2	9.0	5.8	—
80AL23.7A	5(3.7)	3"(80)		347	314	277	238	195	146	91	38		28.2	26.6	25.0	23.6	20.6	17.2	13.2	8.9

AL SERIES WASTEWATER/EFFLUENT SUBMERSIBLE PUMPS

80(100)AL25.5 · 80(100)AL27.5 · 80(100)AL211

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	General Wastewater Sewage and Industrial Water
Type	Frequency	60Hz
	Motor	2P(3600rpm) · Dry Motor
	Insulation	Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft End	SUS403 (7.5~10HP) · SUS420J2 (15HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FC200
	Cable	VCT or H07RN-F or SOW
Optional		—



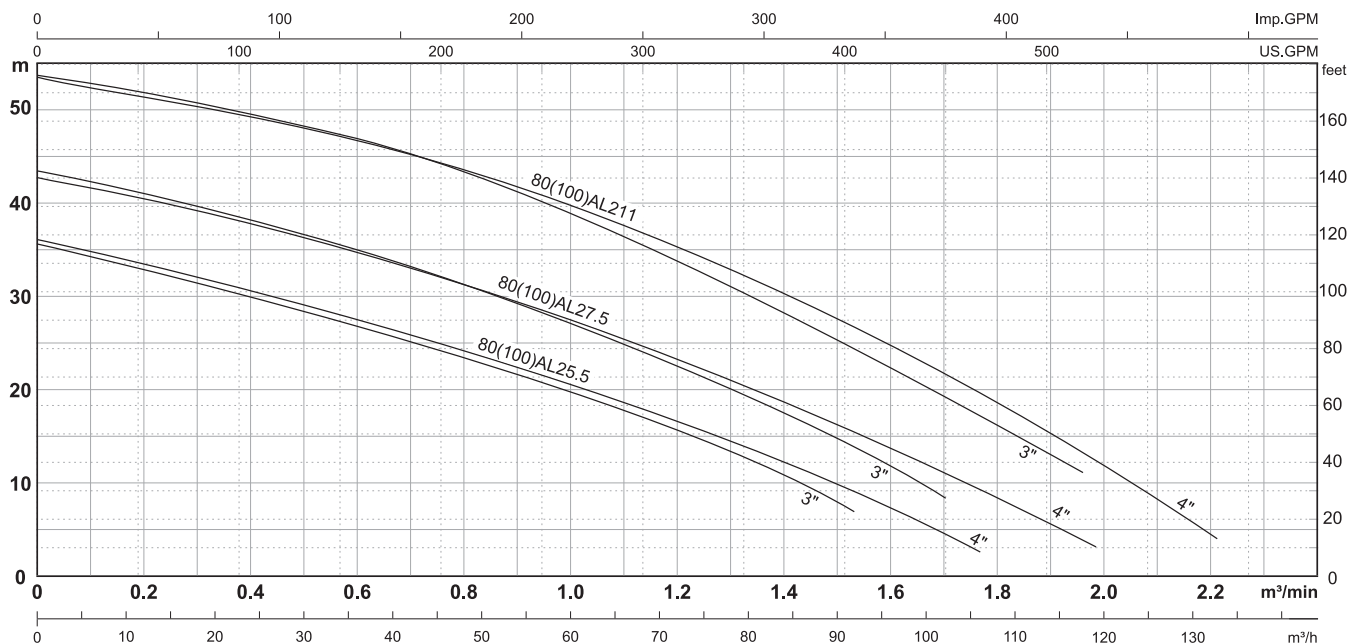
Semi-open Impeller



80(100)AL25.5 · 80(100)AL27.5 · 80(100)AL211

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lb)	3Ø-kg(lb)								
80(100) AL25.5	7.5(5.5)	3"(80)	26.5-0.6	87-160	36-1.5	118-396	20 ^(3/4")	—	74(163)	Fullload Ampere	—	—	19.8	19.0	11.5	9.5	7.9
		4"(100)	20-1.0	66-265	36-1.9	118-502	20 ^(3/4")	—	74(163)		—	—	19.8	19.0	11.5	9.5	7.9
80(100) AL27.5	10(7.5)	3"(80)	34.5-0.6	114-160	43-1.7	142-450	20 ^(3/4")	—	80(176)		—	—	25.8	24.6	15.0	12.3	10.1
		4"(100)	27-1.0	89-265	43-2.0	142-530	20 ^(3/4")	—	80(176)		—	—	25.8	24.6	15.0	12.3	10.1
80(100) AL211	15(11)	3"(80)	46-0.6	152-160	54-2.0	178-530	20 ^(3/4")	—	90(198)		—	—	37.0	35.5	21.8	17.7	14.9
		4"(100)	39.5-1.0	130-265	54-2.25	178-595	20 ^(3/4")	—	90(198)		—	—	37.0	35.5	21.8	17.7	14.9

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet	20'	40'	60'	80'	100'	120'	140'	160'	Q:m³/min Q:m³/h		0.2	0.4	0.6	0.8	1	1.2	1.6	2
														12	24	36	48	60	72	96	120
80(100) AL25.5	7.5(5.5)	3"(80)	Q:US.GPM	—	356	284	196	96	—	—	—	H:m		32.9	29.9	26.8	23.4	19.8	15.6	—	—
		4"(100)		432	370	295	208	108	—	—	—			33.5	30.6	27.6	24.2	20.6	16.6	7.3	—
80(100) AL27.5	10(7.5)	3"(80)		—	419	362	296	222	133	18	—			41.0	38.2	35.0	31.3	27.2	22.6	11.8	—
		4"(100)		497	438	374	303	222	127	1	—			40.2	37.8	34.8	31.3	27.5	23.3	13.8	—
80(100) AL211	15(11)	3"(80)		—	509	457	404	349	289	220	121			51.8	49.6	47.0	43.4	39.0	33.8	22.4	—
		4"(100)		570	526	478	426	368	302	225	116			51.4	49.2	46.7	43.6	39.8	35.4	24.8	12.0