



AL

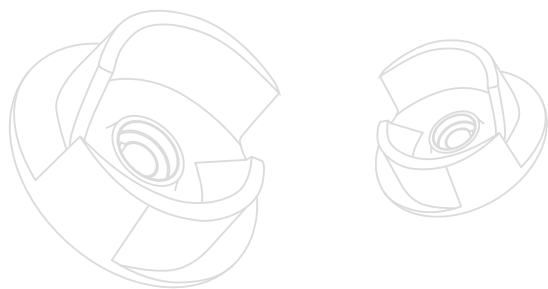
SUBMERSIBLE WASTEWATER
EFFLUENT PUMPS

50Hz & 60Hz

make future flow

FEATURES

- Made from durable cast iron, the AL Series is a submersible wastewater/effluent pump built with a strainer for low-solid water applications and optimal performance.
- Compact and efficient, the AL Series can be used for many industrial and commercial high-head water needs.
- Equipped with the 100-150µm high solids epoxy coating, auto-cut protector, and epoxy-resin-sealed cable base. These features ensure extended product life and reliability.
- The triangular handle, which seamlessly integrates with the Guide Rail System, simplifies installation and maintenance for models 3.7kW and above.



SPECIFICATIONS

Spec.	Description
Liquid Temp.	0~40°C (32~104°F)
Motor	2P (50Hz 3000rpm • 60Hz 3600rpm) • Dry Motor
Insulation	Class F • Class H
Protection	IP68
Protector	Auto-cut • MTS • MTS & MS
M.seal Type	Double M.seals
Impeller Type	Open

Item	Material
Upper Cover	FC200 / GG-20 / ASTM-30
Motor Frame	FC200 / GG-20 / ASTM-30
Shaft	SUS403 / X5Cr13 / ASTM 403 • SUS420J2 / X30Cr13 / ASTM 420 F • SUS630 / X5CrNiCuNb17-4 / AISI 630
M.seal	CA/CE & SiC/SiC
Casing	FC200 / GG-20 / ASTM-30
Impeller	FC200 / GG-20 / ASTM-30 • SCS14 / G-X6CrNiMo1810 / A744 CF-8M
Footing	FC200 / GG-20 / ASTM-30
Cable	VCT or H07RN-F or SJOW/SOW/SOOW

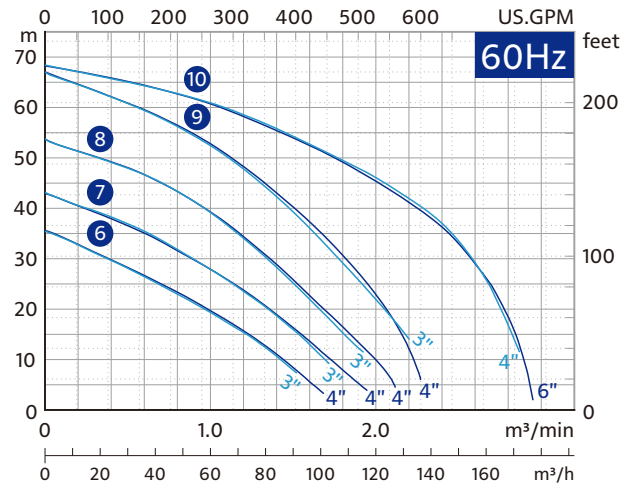
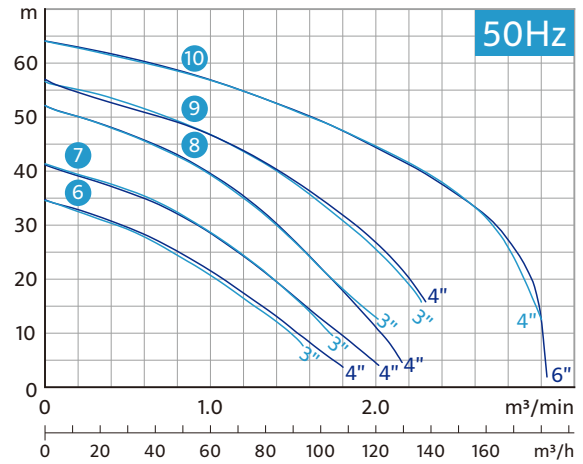
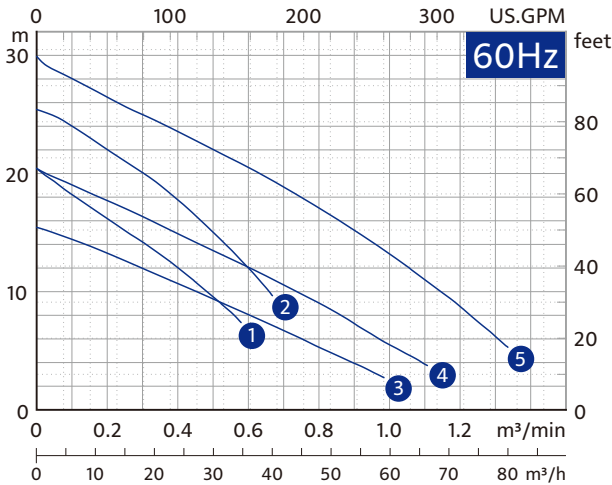
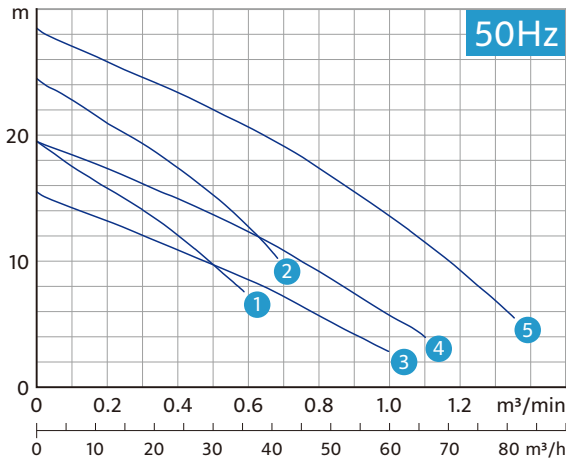
PRODUCT NOMENCLATURE

$\frac{80}{\text{Discharge mm}}$ — $\frac{\text{AL}}{\text{Type}}$ $\frac{2}{\text{Pole}}$ $\frac{1.5}{\text{kW}}$

APPLICATIONS

- Industrial and commercial wastewater handling for low-solid content
- Effluent, rainwater, and drainage management for various water types
- High-head sewage treatment for buildings with underground floors
- Floodwater removal
- Landscaping water supply

PERFORMANCE CURVES AND SPECS



50Hz	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm	Casing Type	Weight kg	
						m-m³/min				1Ø	3Ø
	① 50AL21.5	2(1.5)	2" (50)	1 3	Capacitor DOL	12-0.4	19.5-0.7	20	V	35	31
	② 50AL22.2	3(2.2)	2" (50)	1 3	Capacitor DOL	17.5-0.4	24.5-0.8	20	V	38	34
	③ 80AL21.5	2(1.5)	3" (80)	1 3	Capacitor DOL	8.5-0.6	15.5-1.05	20	H	37	32
	④ 80AL22.2	3(2.2)	3" (80)	1 3	Capacitor DOL	12.5-0.6	19.5-1.15	20	H	39	35
	⑤ 80AL23.7A	5(3.7)	3" (80)	3	DOL	20.5-0.6	28.5-1.4	20	H	-	49
	⑥ 80(100)AL25.5	7.5(5.5)	3" (80) 4" (100)	3	DOL	28-0.6 21.5-1.0	35-1.6 35-1.9	20	H	-	75
	⑦ 80(100)AL27.5	10(7.5)	3" (80) 4" (100)	3	DOL	35-0.6 28-1.0	41.5-1.75 41.5-2.05	20	H	-	81
	⑧ 80(100)AL211	15(11)	3" (80) 4" (100)	3	Y-D/DOL	45-0.6 39-1.0	52.5-2.05 52.5-2.2	20	H	-	91
⑨ 80(100)AL215	20(15)	3" (80) 4" (100)	3	Y-D/DOL	49-0.8 43.5-1.2	57-2.25 57-2.3	20	H	-	102	
⑩ 100(150)AL222	30(22)	4" (100) 6" (150)	3	Y-D/DOL	55-1.2 44-2.0	64-3.0 64-3.05	20	H	-	145	

60Hz	Model	Output HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Standard	Max.	Solid Passage mm(Inch)	Casing Type	Weight kg(lb)	
						ft-GPM				1Ø	3Ø
	① 50AL21.5	2(1.5)	2" (50)	1 3	Capacitor DOL	39.4-105	67.3-172	20(¾")	V	35(77)	31(68)
	② 50AL22.2	3(2.2)	2" (50)	1 3	Capacitor DOL	57.4-105	83.7-198	20(¾")	V	38(84)	34(75)
	③ 80AL21.5	2(1.5)	3" (80)	1 3	Capacitor DOL	26.2-158	50.9-264	20(¾")	H	37(82)	32(71)
	④ 80AL22.2	3(2.2)	3" (80)	1 3	Capacitor DOL	39.4-158	67.3-290	20(¾")	H	39(86)	35(77)
	⑤ 80AL23.7A	5(3.7)	3" (80)	1 3	*External Capacitor DOL	67.3-158	98.4-355	20(¾")	H	54(119)	49(108)
	⑥ 80(100)AL25.5	7.5(5.5)	3" (80) 4" (100)	3	DOL	86.9-158 65.6-264	118.1-410 118.1-475	20(¾")	H	-	74(163)
	⑦ 80(100)AL27.5	10(7.5)	3" (80) 4" (100)	3	DOL	114.8-160 88.6-264	141-450 141-530	20(¾")	H	-	80(176)
	⑧ 80(100)AL211	15(11)	3" (80) 4" (100)	3	Y-D/DOL	150.9-158 128-264	177.2-530 177.2-570	20(¾")	H	-	90(198)
⑨ 80(100)AL215	20(15)	3" (80) 4" (100)	3	Y-D/DOL	187-185 154.2-315	219.8-580 219.8-595	20(¾")	H	-	101(223)	
⑩ 100(150)AL222	30(22)	4" (100) 6" (150)	3	Y-D/DOL	190.5-315 147.5-530	223-750 223-780	20(¾")	H	-	144(317)	

※ Excludes Cable & Elbow Weight.

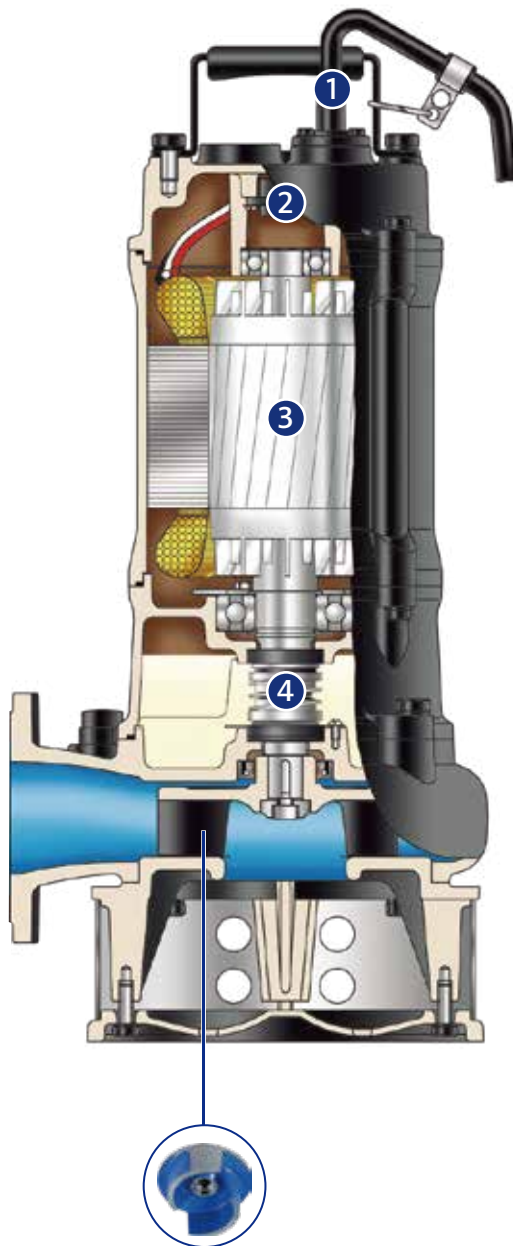
※ Start Method : Y-D = STAR-DELTA

※ Casing type : V stands for Vertical and H for Horizontal. ※ *External Capacitor : Required external capacitors & start relay.

AL SERIES



PRODUCT FEATURES



1 Epoxy Cable Base

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



2 Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



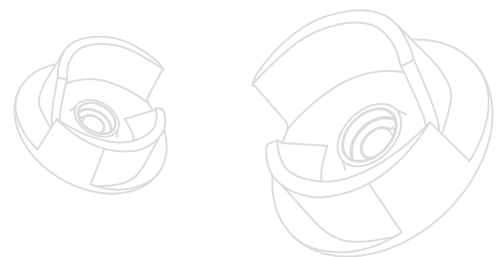
3 High Efficiency Dry Motors

All stator coils are treated with insulating varnish procedures to achieve the best insulation, efficiency and durability.



4 Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.



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

We reserve the right to alter specifications of product at any time without giving prior notice.
Copyright © 2025 HCP PUMP MANUFACTURER CO., LTD. All rights reserved.
DALENO-2509



 YouTube



Selection
system



Catalog