



AF SEWAGE/WASTEWATER SUBMERSIBLE PUMPS



FEATURE

- International standard design : Epoxy Resin Sealed cable, motor protector, dry-motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- P/U/E multiple impellers designed to handle sewage solids and/or fibrous substances.
- Double Mechanical Seal: Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.
- Mechanical Seal Bracket designed with Oil Elevating Chip to enhance the lubricant, and extend the lifetime of the Mechanical Seal.
- Full range offering low to high head and flow capabilities; with compact and easy installation. Also available with Guide Rail System that allows automatic remote connection and disconnection without entering the pit.

APPLICATIONS

- Drainage of waste water from the attenuation tank, purifying tank and sewage tank in water treatment plant.
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Sewage management, accumulated water, septic tank, stock farm.
- Pumping sewage from hotels, restaurants, schools and public buildings.

PRODUCT NOMENCLATURE

80	AF	P	2	1.5
Discharge mm	Type	Impeller type	Pole	kW

IMPELLER TYPE

P Type Semi-open Impeller (Single or Two Vane):

Excellent to use with waste materials to prevent from clogging.



U Type Semi-open Impeller(Vortex):

Produces a vortex (whirlpool effect) allowing long fibrous materials and other solid waste to pass through, without contact with the impeller.



Note: 3Phase U type Vortex impeller will cause higher amperage when operated in reverse direction.

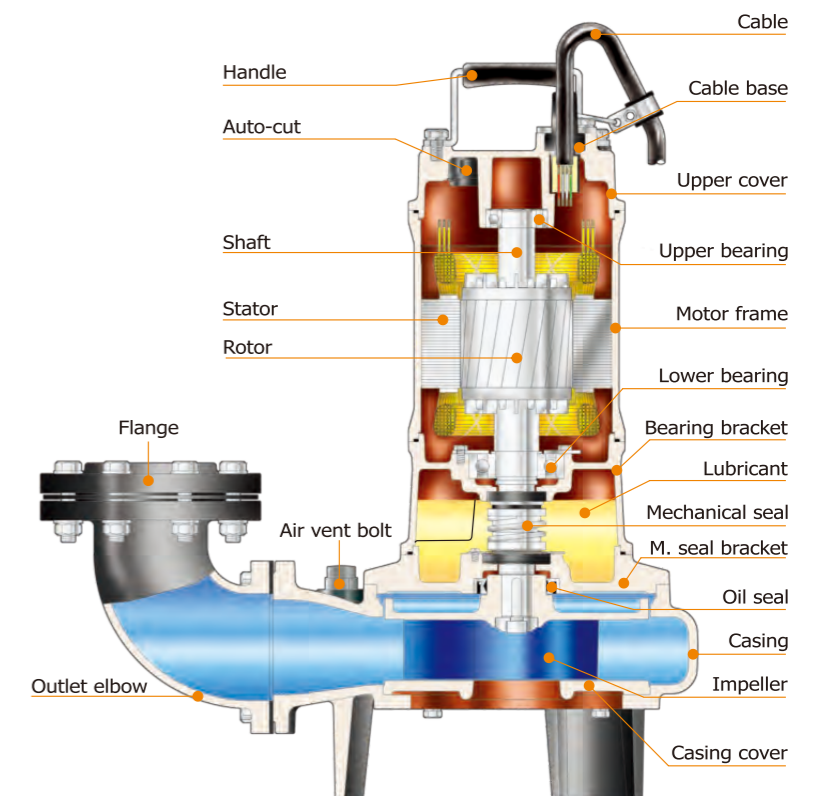
E Type Enclosed Channel Impeller :

High impeller efficiency and clog-resistant design, primarily used for large pumping applications.



SPECIFICATIONS

Discharge (mm)		50 • 80 • 100
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Wastewater • Sewage
	Submersion Depth	30m (100feet)
Type	Frequency	50Hz
	Motor	2P (3000RPM) • 4P (1500RPM) • Dry Motor
	Insulation	Class B(0.5~3HP) Class F(5~10HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball Type
	M.seal	Double M.seals
Material	Impeller	Semi-open (P/U) Enclosed-channel (E)
	Upper Cover	FC-200
	Motor Frame	FC-200
	Shaft End	SUS410 (2P:0.5~1HP) SUS403 (2P:2~10HP • 4P:0.5~5HP) SUS420J2 (4P:7.5~10HP)
	M.seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon
	Casing	FC-200
	Impeller	FC-200
	Cable	VCT or H07RN-F or SJOW/SOW
Optional	Pumps can be customized to fit specifications	



■ PERFORMANCE SPEC.



50AFU2.4/2.8



50AFU2.4L/2.8L



80AFU21.5(L)
80AFU22.2(L)



80AFU23.7A
80AFU23.7LA



80AFU25.5(L)
80AFU27.5(L)



80AFP21.5/22.2



50AFU4.4/4.8



80AFP23.7A
80(100)AFP25.5/27.5

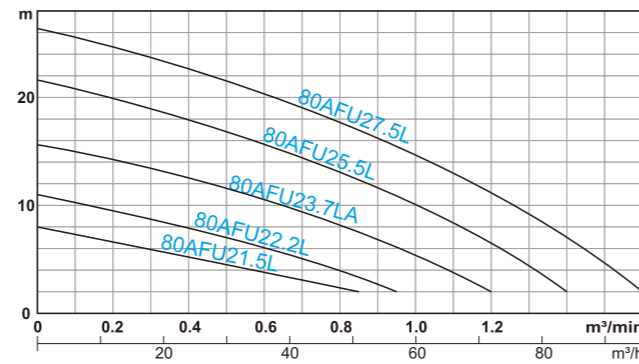
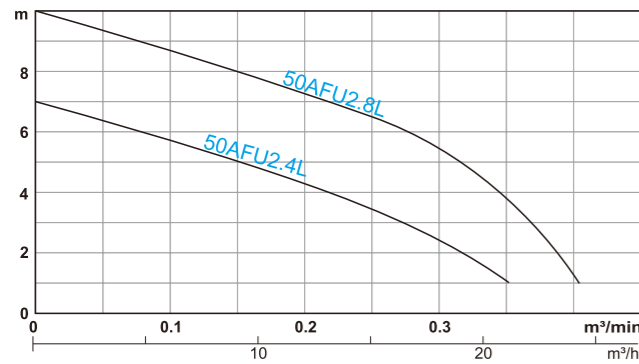
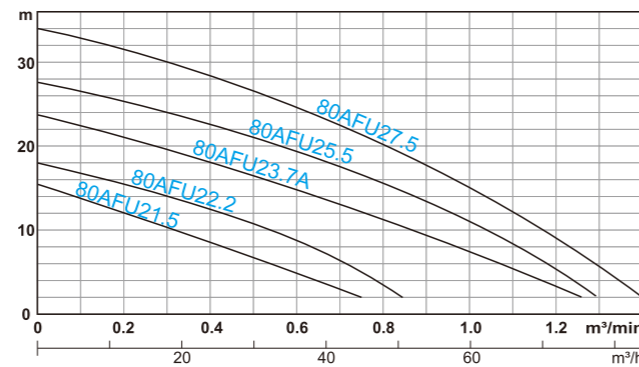
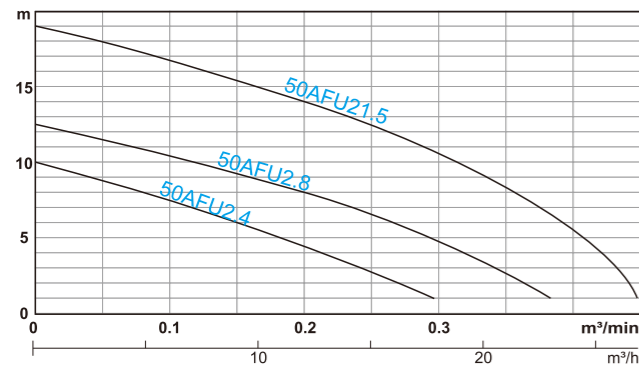


80AFU41.5/42.2/43.7

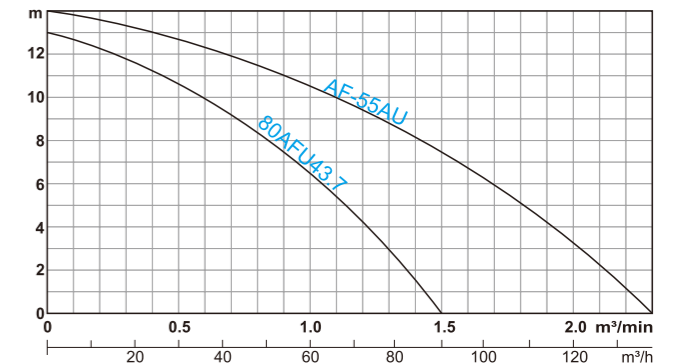
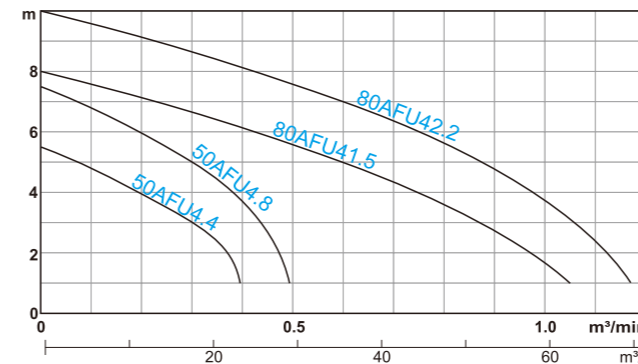
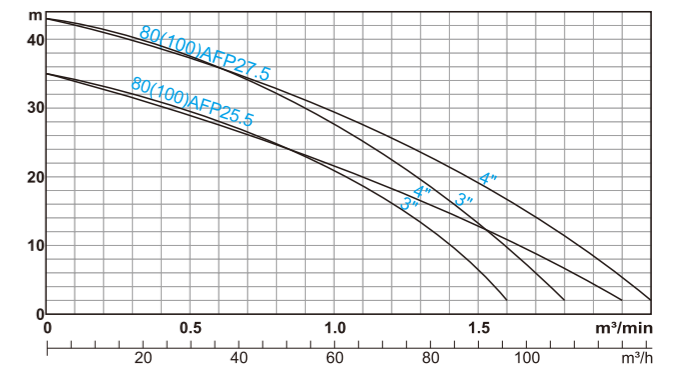
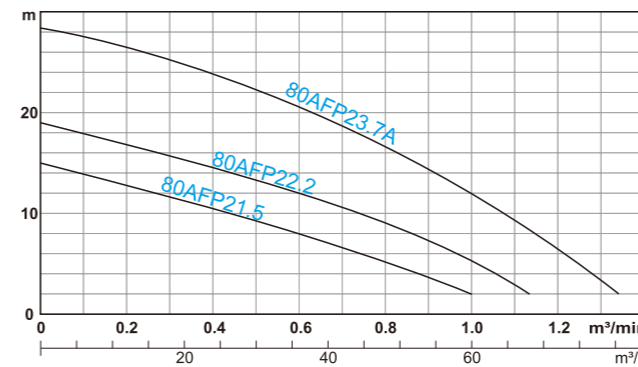


AF-55AU
AF-55AE

■ PERFORMANCE CURVES



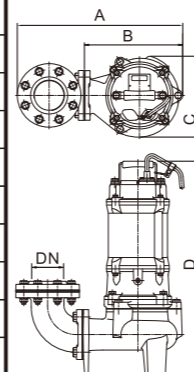
■ PERFORMANCE CURVES



■ PERFORMANCE SPEC.

Pole	Model	Output HP(kW)	Size DN Inch(mm)	Phase Ø	Start Method	Head (m)	Capacity		Solid Passage mm	Weight (kg)		Dimension (mm)				
							m³/min	m³/h		1Ø	3Ø	A	B	C	D	
															1Ø	3Ø
2P	50AFU2.4	½ (0.4)	2" (50)	1	Capacitor	6	0.15	9	35	19	18	236	-	155	418	418
	50AFU2.8	1 (0.75)	2" (50)	3	Direct	8	0.2	12	35	20	19	236	-	155	418	418
	50AFU21.5	2 (1.5)	2" (50)	1	Capacitor	14	0.2	12	35	33	29	288	-	202	532	477
	80AFU21.5	2 (1.5)	3" (80)	1	Capacitor	8.5	0.4	24	50	35	32	397	260	202	574	519
	80AFU22.2	3 (2.2)	3" (80)	3	Direct	12.5	0.4	24	50	38	34	397	260	202	601	519
	80AFU23.7A	5 (3.7)	3" (80)	3	Direct	16.5	0.5	30	50	-	46	481	286	222	-	573
	80AFU25.5	7½ (5.5)	3" (80)	3	Direct	19.5	0.6	36	50	-	68	504	309	258	-	665
	80AFU27.5	10 (7.5)	3" (80)	3	Direct	24.5	0.6	36	50	-	74	504	309	258	-	665
	50AFU2.4L	½ (0.4)	2" (50)	1	Capacitor	4	0.22	13.2	50	20	19	306	201	163	448	448
	50AFU2.8L	1 (0.75)	2" (50)	3	Direct	6.5	0.25	15	50	22	21	306	201	163	448	448
	80AFU21.5L	2 (1.5)	3" (80)	1	Capacitor	4.5	0.5	30	76	38	34	402	265	221	626	571
	80AFU22.2L	3 (2.2)	3" (80)	1	Capacitor	7	0.5	30	76	40	36	402	265	221	653	571
	80AFU23.7LA	5 (3.7)	3" (80)	3	Direct	10.5	0.6	36	76	-	48	481	286	235	-	625
	80AFU25.5L	7½ (5.5)	3" (80)	3	Direct	13	0.8	48	76	-	70	509	314	273	-	717
	80AFU27.5L	10 (7.5)	3" (80)	3	Direct	17.5	0.8	48	76	-	76	509	314	273	-	717

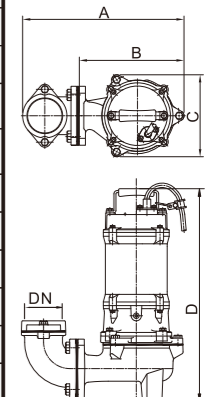
Note: Weight Without Cable & Elbow Set



■ PERFORMANCE SPEC.

Pole	Model	Output HP(kW)	Size DN Inch(mm)	Phase Ø	Start Method	Head (m)	Capacity		Solid Passage mm	Weight (kg)		Dimension (mm)				
							m³/min	m³/h		1Ø	3Ø	A	B	C	D	
															1Ø	3Ø
2P	80AFP21.5	2 (1.5)	3" (80)	1	Capacitor	8	0.6	36	35	37	33	413	275	260	576	525
	80AFP22.2	3 (2.2)	3" (80)	3	Direct	12	0.6	36	35	40	35	413	275	260	608	525
	80AFP23.7A	5 (3.7)	3" (80)	3	Direct	20.5	0.6	36	32	-	48	500	305	290	-	578
	80(100)AFP25.5	7½ (5.5)	3" (80)	3	Direct	28	0.6	36	30	-	75	568	373	345	-	689
	80(100)AFP27.5	10 (7.5)	4" (100)	3	Direct	21.5	1.0	60	30	-	81	568	373	345	-	689
	80(100)AFP27.5	10 (7.5)	4" (100)	3	Direct	29.5	1.0	60	30	-	81	568	373	345	-	689
4P	50AFU4.4	½ (0.4)	2" (50)	1	Capacitor	3.5	0.25	15	50	30	28	346	241	204	516	516
	50AFU4.8	1 (0.75)	2" (50)	3	Direct	5	0.3	18	50	30	29	346	241	204	516	516
	80AFU41.5	2 (1.5)	3" (80)	1	Capacitor	5	0.6	36	76	47	47	443	305	255	700	622
	80AFU42.2	3 (2.2)	3" (80)	3	Direct	7	0.6	36	76	-	57	538	422	289	-	675
	80AFU43.7	5 (3.7)	3" (80)	3	Direct	10	0.6	36	76	-	65	538	422	289	-	695
	AF-55AU	7½ (5.5)	4" (100)	3	Direct	10.5	1.0	60	25	-	115	687	453	405	-	795

Note: Weight Without Cable & Elbow Set





80AFP41.5



80AFP42.2
80(100)AFP43.7



AF-75E



AF-610

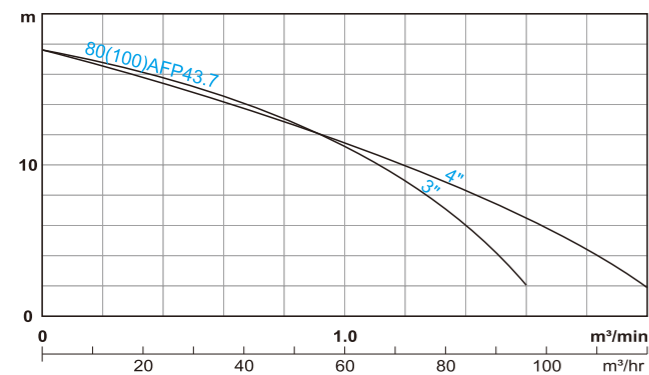
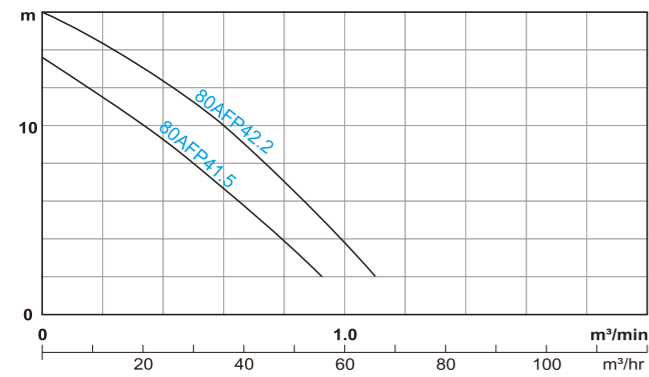


AF-615/620



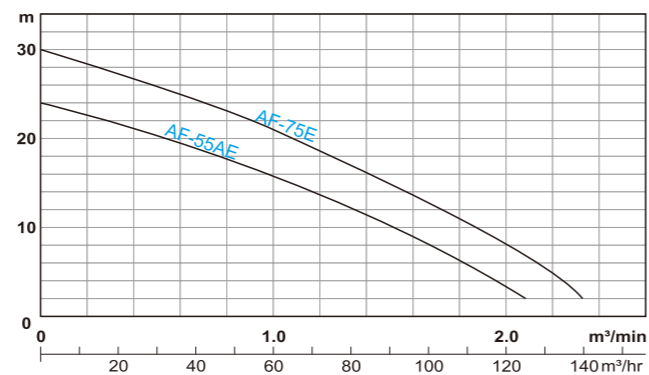
AF-815/820

PERFORMANCE CURVES

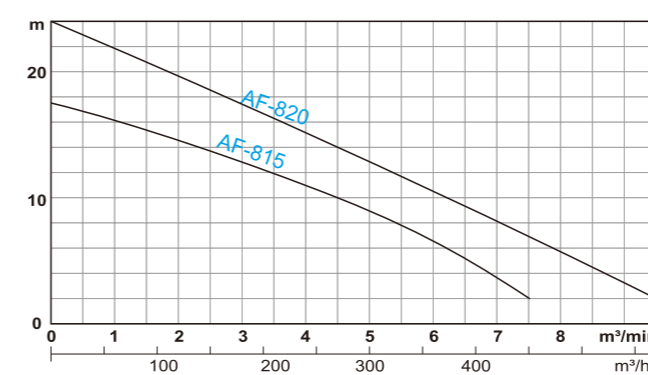
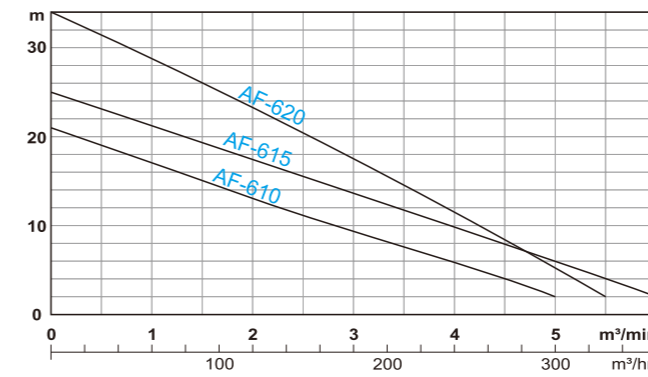


PRODUCT NOMENCLATURE

AF	—	55	A	E
Type		kW	Style	Impeller type
AF	—	6	10	
Type		Discharge inch	HP	



PERFORMANCE CURVES



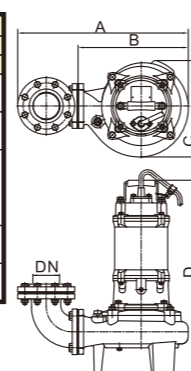
SPECIFICATIONS

Discharge (mm)		150 • 200
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)
	Applications	Wastewater • Sewage
	Submersion Depth	30m (100feet)
Type	Frequency	50Hz
	Motor	4P: 1500RPM • Dry Motor
	Insulation	Class F(10~20HP)
	Protection	IP68
	Protector	Auto-cut(10HP) • MTS / MS(15~20HP)
	Bearing	Ball Type
	M.seal	Double M.seals
	Impeller	Enclosed-channel (E)
Material	Upper Cover	FC-200
	Motor Frame	FC-200
	Shaft End	SUS420J2 (4P:10~20HP)
	M.seal	Upper: Carbon/Ceramic Lower: Silicon/Silicon
	Casing	FC-200
	Impeller	FC-200
Cable	VCT or H07RN-F or SOW	
Optional	Pumps can be customized to fit specifications	

PERFORMANCE SPEC.

Pole	Model	Output HP(kW)	Size DN Inch(mm)	Phase Ø	Start Method	Head (m)	Capacity		Solid Passage (mm)	Weight (kg)		Dimension (mm)					
							m³/min	m³/h		1Ø	3Ø	A	B	C	D		
4P	80AFP41.5	2 (1.5)	3" (80)	1 3	Capacitor Direct	8	0.5	30	50	47	47	472	334	290	645	567	
	80AFP42.2	3 (2.2)	3" (80)		3	Direct	10	0.6	36	50	-	57	553	437	313	-	623
	80(100)AFP43.7	5 (3.7)	3" (80)	3	Direct	14.5	0.6	36	50	-	67	553	437	313	-	643	
			4" (100)			11.5	1.0	60				571					
	AF-55AE	7½ (5.5)	4" (100)	3	Direct	16	1.0	60	40	-	124	687	453	405	-	795	
	AF-75E	10 (7.5)	4" (100)	3	Direct	18	1.0	60	40	-	138	687	453	405	-	816	

Note: Weight Without Cable & Elbow Set



PERFORMANCE SPEC.

Pole	Model	Output HP(kW)	Size DN Inch(mm)	Phase Ø	Start Method	Head (m)	Capacity		Solid Passage (mm)	Weight (kg)		Dimension (mm)					
							m³/min	m³/h		1Ø	3Ø	A	B	C	D		
4P	AF-610	10 (7.5)	6" (150)	3	Direct	11	2.5	150	70	-	183	888	559	449	-	870	
	AF-615	15 (11)	6" (150)	3	Y-Δ	15.5	2.5	150	70	-	224	895	566	477	-	988	
	AF-620	20 (15)	6" (150)	3	Y-Δ	20.5	2.5	150	76	-	153	806	536	455	-	938	
	AF-815	15 (11)	8" (200)	3	Y-Δ	10	4.5	270	75	-	225	1045	661	501	-	994	
	AF-820	20 (15)	8" (200)	3	Y-Δ	14	4.5	270	75	-	193	1045	661	501	-	994	

Note: Weight Without Cable & Elbow Set

