AF SEWAGE/WASTEWATER SUBMERSIBLE PUMPS





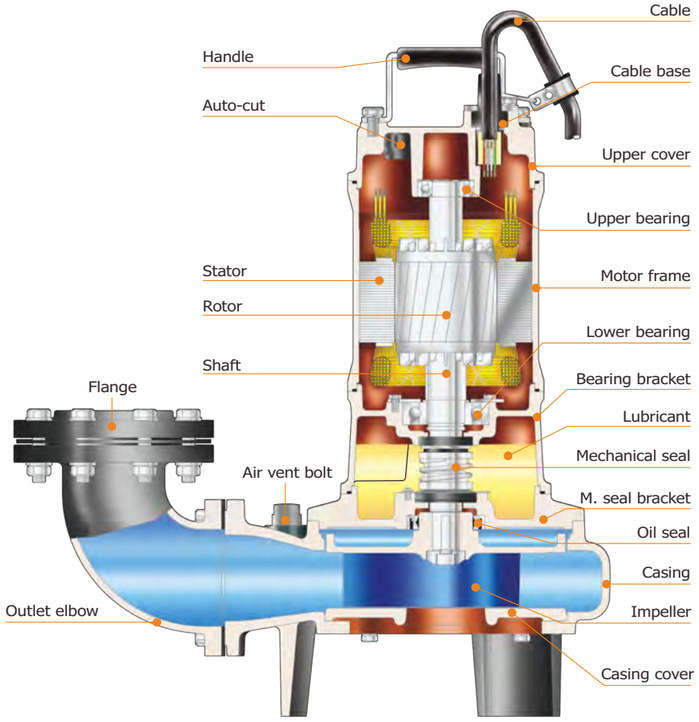


FEATURE

- International standard design : cable, auto-cut, 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.
- Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.
- Oil lip seal mounted outside of seal chamber stops solids gathering around seal faces.
- Full range offering low to high head and flow capabilities, with compact and easy installation. Also, available with Guide Rail System, which 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.
- Sewage management, accumulated water, septic tank, stock farm.
- Pumping sewage from hotels, restaurants, schools and public buildings.



IMPELLER TYPE

P Type Impeller



Semi-open (Single Vane Impeller) : Excellent to use with waste materials to prevent from clogging.

U Type Impeller



Semi-open(Vortex Impeller) : produces a vortex (whirlpool effect) allowing long fibrous materials and other solid waste to pass through without contact with the impeller.

Note: The vortex impeller will cause higher amperage when operated in reverse direction.

E Type Impeller

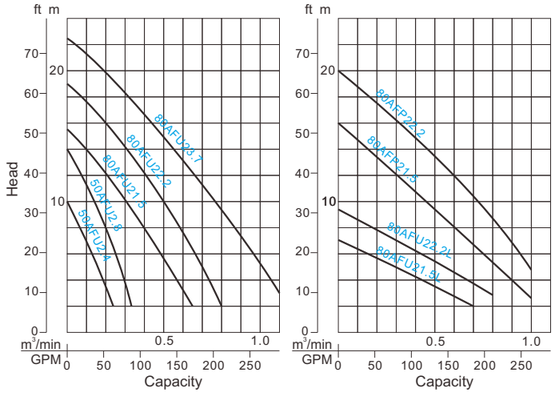


Enclosed Channel impeller : High impeller efficiency and clog-resistant design, primarily used for large pump applications.

PRODUCT NOMENCLATURE

80	AF	P	2	1.5
Discharge mm	Type	Impeller type (P/U)	Pole	kW

PERFORMANCE CURVES



SPECIFICATIONS

		Item	Description
Liquid temp.			0~40℃(32~104℉)
Applications			Wastewater ・Sewage
Max depth			30m (100feet)
Pump sect.	Structure	Impeller	Semi-open・Vortex
		M. seal	Double M. seals
		Bearing	Ball type
	Material	Upper cover	FC-200
		Casing	FC-200
		Impeller	FC-200
		M. Seal	Lower:Sic/Sic・Upper: CA/CE
Motor sect.	Motor		Dry motor
			2P (3600RPM)
	Insulation		B Class (5HP:F Class)
	Frequency		60Hz
	Protector		Auto-cut
	Material	Frame	FC-200
		Main shaft	SUS410 (2~5HP : SUS403)
		Cable	VCT or H07RN-F or SJOW/SOW

※Pumps can be customized to fit specifications.

PERFORMANCE SPEC.

Pole	Model	Power HP(kW)	Discharge Inch(mm)	Phase	Start Method	Head m	Capacity m^3/min	Head feet	Capacity GPM	Weight kg(lb) 1 /3	Solid Passage mm	Dimension (mm) Length	Width	Height
2P	50AFU2.4	0.5(0.4)	2"(50)	1	Capacitor	5.5	0.15	18	40	19(42)	35	236	152	418
				3	Direct					18(40)				
	50AFU2.8	1(0.75)	2"(50)	1	Capacitor	8	0.2	25	52	20(44)	35	236	152	418
				3	Direct					19(42)				
	80AFU21.5	2(1.5)	3"(80)	1	Capacitor	8	0.4	25	106	40(88)	50	379	202	575
				3	Direct					36(79)				524
	80AFU21.5L	2(1.5)	3"(80)	1	Capacitor	3.5	0.5	12	132	43(95)	76	402	217	626
				3	Direct					39(86)				575
	80AFU22.2	3(2.2)	3"(80)	1	Capacitor	12	0.4	40	106	42(93)	50	379	202	607
				3	Direct					38(88)				524
	80AFU22.2L	3(2.2)	3"(80)	1	Capacitor	5.5	0.5	18	132	45(99)	76	402	217	659
				3	Direct					41(90)				575
	80AFU23.7	5(3.7)	3"(80)	1	Direct	15	0.5	15	132	56(123)	56	478	220	588
				3										
	80AFP21.5	2(1.5)	3"(80)	1	Capacitor	8	0.6	25	158	42(93)	35	413	260	576
				3	Direct					38(88)				525
	80AFP22.2	3(2.2)	3"(80)	1	Capacitor	12	0.6	40	158	45(99)	35	413	260	608
				3	Direct					40(158)				525

Note: Weight W/O Cable





50AFU 4.4
50AFU 4.8



80AFP 41.5



80AFP 42.2
80/100AFP43.7



80AFU42.2
80AFU43.7



AF-55



AF-75 • 415



AF-610 • 615 • 620



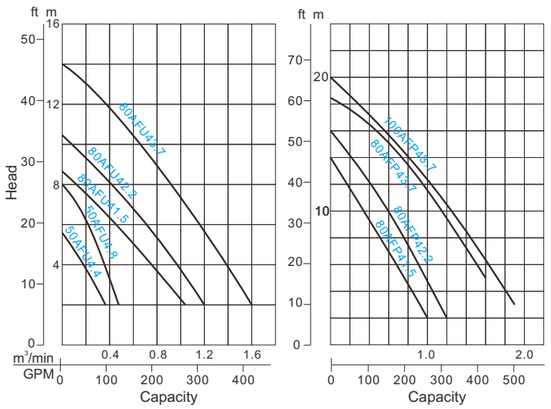
AF-815 • 820



■ PRODUCT NOMENCLATURE

80	AF	U	4	2.2
Discharge mm	Type	Impeller type (P/U)	Pole	kW

■ PERFORMANCE CURVES



■ SPECIFICATIONS

Diameter (mm)			Description
Liquid temp			0~40℃(32~104℉)
LiLiquid nature			Waste water • Sewage
Max depth			30m (100feet)
Pump sect.	Structure	Impeller	Semi-open • Vortex
		Mech seal	Double M. seals
		Bearing	Ball type
	Material	Upper cover	FC-200
		Casing	FC-200
		Impeller	FC-200
		M. seal	Lower:Sic/Sic • Upper: CA/CE
Motor sect.	Motor		Dry motor
			4P (1800RPM)
	Insulation		B Class (5HP : F Class)
	Frequency		60Hz
	Auto-cut		Auto-cut
	Material	Frame	FC-200
		Main shaft	SUS420J2 (0.5~1HP : SUS403)
		Cable	VCT or H07RN-F or SJOW/SOWT

※Pumps can be customized to fit specifications.

■ PERFORMANCE SPEC.

Pole	Model	Power HP(kW)	Discharge Inch(mm)	Phase	Start Method	Head m	Capacity m^3/min	Head feet	Capacity GPM	Weight kg(lb) 1 /3	Solid Passage mm	Dimension (mm) Length	Width	Height
4P	50AFU4.4	0.5(0.4)	2"(50)	1	Capacitor	3.5	0.23	12	60	30(66)	50	346	204	516
				3	Direct					28(62)				
	50AFU4.8	1(0.75)	2"(50)	1	Capacitor	5	0.3	15	80	31(68)	50	346	204	516
				3	Direct					29(64)				
	80AFU41.5	2(1.5)	3"(80)	1	Capacitor	5	0.6	15	158	52(115)	76	500	256	700
				3	Direct					52(115)				622
	80AFU42.2	3(2.2)	3"(80)	3	Direct	7	0.6	22	158	68(150)	80	538	289	573
	80AFU43.7	5(3.7)	3"(80)	3	Direct	10.5	0.6	35	158	75(165)	80	538	289	697
	80AFP41.5	2(1.5)	3"(80)	1	Capacitor	8	0.5	25	132	51(122)	50	530	290	645
				3	Direct					51(122)				567
	80AFP42.2	3(2.2)	3"(80)	3	Direct	10	0.6	32	158	68(150)	50	553	313	623
	80AFP43.7	5(3.7)	3"(80)	3	Direct	15	0.6	50	158	78(172)	50	553	313	643
	100AFP43.7	5(3.7)	4"(100)	3	Direct	12.5	1.0	42	265	81(179)	50	570	313	643

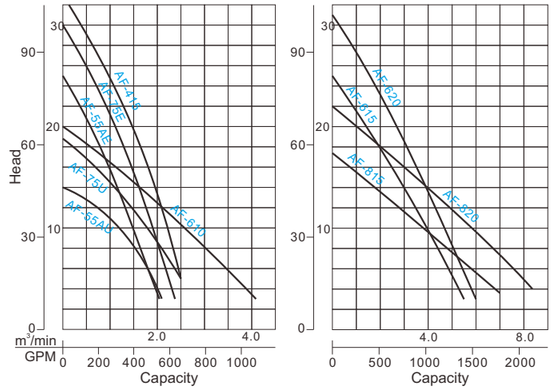
Note: Weight W/O Cable

■ PRODUCT NOMENCLATURE

AF	–	55	A	U
Type		kW	Style	Impeller type (E/U)

AF	–	6	10
Type		Discharge inch	HP

■ PERFORMANCE CURVES



■ SPECIFICATIONS

Item			Description
Liquid temp.			0~40℃(32~104℉)
Applications			Wastewater • Sewage
Max depth			30m (100feet)
Pump sect.	Structure	Impeller	Vortex • Enclosed channel
		M. seal	Double M. seals
		Bearing	Ball type
	Material	Upper cover	FC-200
		Casing	FC-200
		Impeller	FC-200
		M. seal	Lower:Sic/Sic • Upper: CA/CE
Motor sect.	Motor		Dry motor
			4P (1800RPM)
	Insulation		F Class
	Frequency		60Hz
	Protector		Auto-cut (MTP:15~20HP)
	Material	Frame	FC-200
		Main shaft	SUS420J2
		Cable	VCT or H07RN-F or SJOW/SOW

※Pumps can be customized to fit specifications.

■ PERFORMANCE SPEC.

Pole	Model	Power HP(kW)	Discharge Inch(mm)	Phase	Start Method	Head m	Capacity m^3/min	Head feet	Capacity GPM	Weight kg(lb) 3	Solid Passage mm	Dimension (mm) Length	Width	Height
4P	AF-55AU	7.5(5.5)	4"(100)	3	Direct	11	1.0	36	265	129(285)	65	687	405	795
	AF-75U	10(7.5)	4"(100)	3	Direct	14.5	1.0	48	265	143(315)	65	687	405	816
	AF-55AE	7.5(5.5)	4"(100)	3	Direct	16	1.0	52	265	136(300)	40	687	405	795
	AF-75E	10(7.5)	4"(100)	3	Direct	21	1.0	70	265	150(331)	40	687	405	816
	AF-415	15(11)	4"(100)	3	Direct	20	1.5	65	396	163(360)	40	687	405	816
	AF-610	10(7.5)	6"(150)	3	Direct	10	2.5	32	660	219(4830	73	888	449	870
	AF-615	15(11)	6"(150)	3	Y-Δ	16	2.5	52	660	259(571)	70	895	477	1026
	AF-620	20(15)	6"(150)	3	Y-Δ	20	2.5	68	660	276(608)	70	895	477	1026
	AF-815	15(11)	8"(200)	3	Y-Δ	8.5	4.5	28	1190	268(591)	70	1045	497	1021
	AF-820	20(15)	8"(200)	3	Y-Δ	13	4.5	42	1190	281(620)	70	1045	501	1032

Note: Weight W/O Cable