

# AF TYPE SEWAGE PUMPS

## ■ FEATURES

- International standard design: VCT and 2PNCT cable, autocut, dry-motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- P/U/E multiple impeller designs to handle solids laden sewage and/or fibrous substance.
- Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.
- For extra protection, an oil seal ring has been installed under the oil chamber. This lip seal helps prevent the ingress of silt and sand into the lower seal chamber.
- Full product range offers low to high head and flow capabilities, with compact and easy installation. Also, available with TOS Guide Rail system, which allows automatic remote connection and disconnection without entry to the sump being required.
- **100%** Non-clogging impeller design on new AF model ensures no blockage when pumping solids laden liquids.

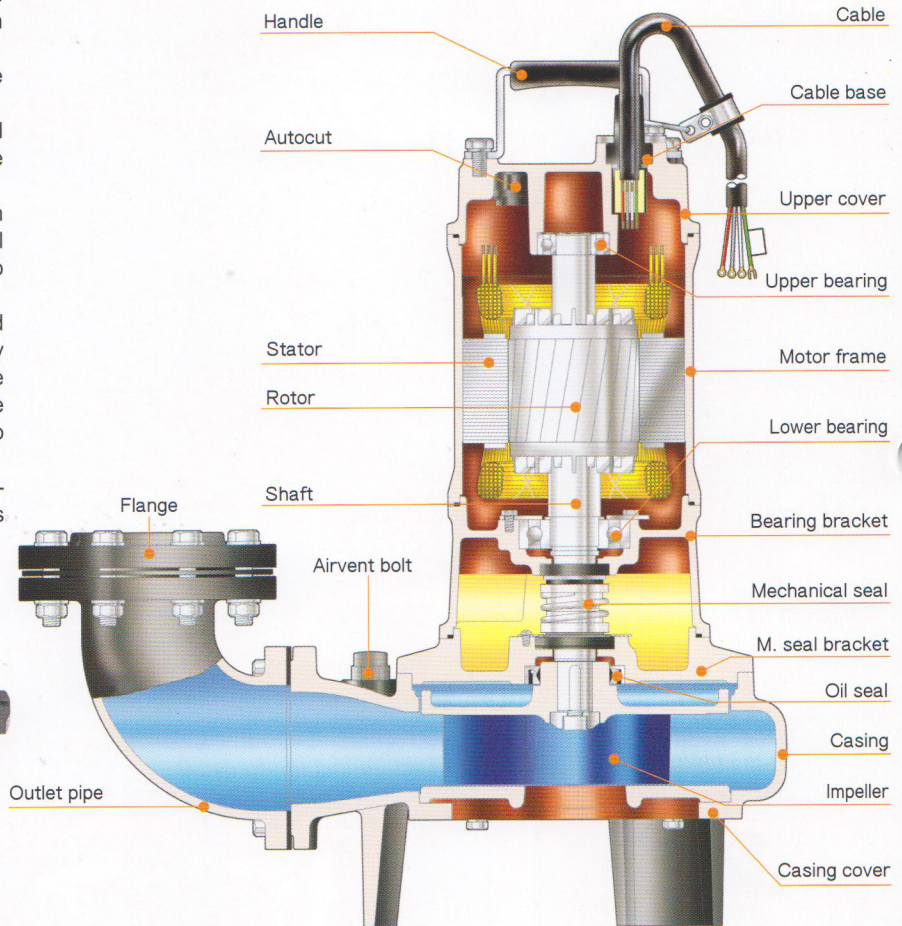
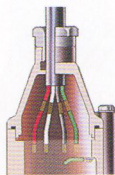
### ◎ Auto cut

- Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature/phase loss/voltage drop and/or locked impeller.



### ◎ Cable base

- Epoxy resin sealed cable base to prevent water intrusion into motor.



## ■ APPLICATIONS

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



- Public facilities drainage

## ■ SPECIFICATION

Diameter(mm)		50 · 80 · 100		
Pumping liquid	Liquid temp.	0~40°C		
	Liquid nature	Waste water and sewage		
	Max depth	30m		
Pump	Structure	Impeller	P type : Semi-open, Non-clog U type : Semi-Vortex, E type : Enclosed single channel	
		Mech seal	Double mechanical seal	
		Bearing	Ball type bearing	
	Material	Upper cover	FC-200	
		Casing	FC-200	
		Impeller	FC-200/FCD-450	
		M.seal	Sic/Sic	
Motor	Type	Dry motor		
	Polarity	2P/4P		
	Insulation	B Class(5HP:F Class)	F Class	
	Frequency	50Hz		
	Auto-cut	Automatic reset motor protector		
	Material	Frame	FC-200	
		Main shaft	SUS420J2(2P : SUS403)	
Cable		VCT		

※Pumps can be manufactured with specific requirements.



50AFU



AF-15A · 33



AF-35A



AFP



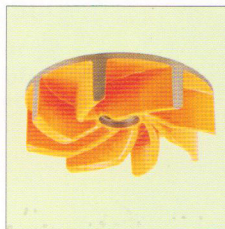
80AFU

## MULTIPLE IMPELLERS OPTIONS TO SOLVE WASTE WATER DRAINAGE PROBLEMS



### P TYPE IMPELLER

Semi-open impeller embedded with a tungsten blade to enable cutting of fibrous materials to prevent clogging.



### U TYPE IMPELLERS

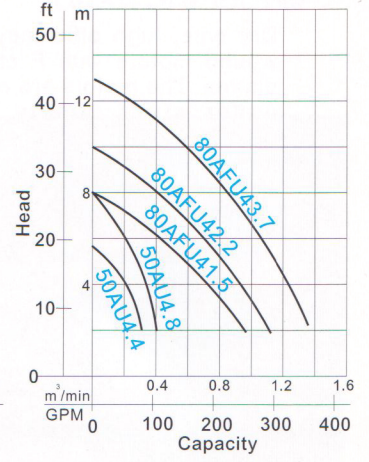
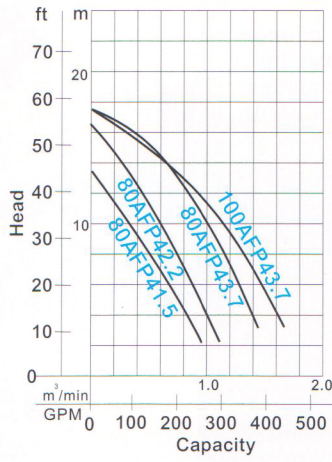
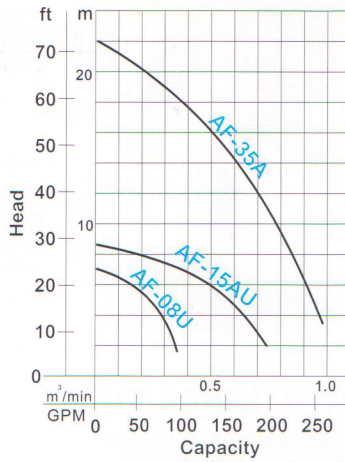
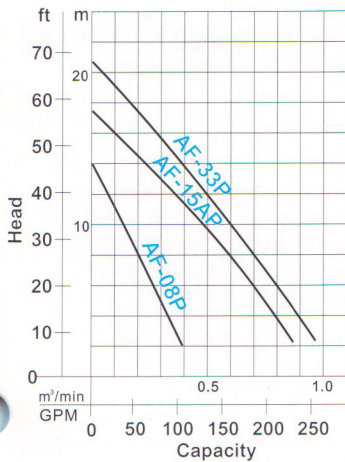
Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller, preventing potential clogging by solids laden media.



### E TYPE IMPELLERS

Single channel non-clog impeller, allows large solids passage preventing clogging and allowing effective drainage/dewatering for higher head applications with solids laden media.

## PERFORMANCE CURVE



## PERFORMANCE SPEC.

Type	Power HP(kW)	Discharge Inch(mm)	Phase Ø	Start Method	Head m	Capacity m³/min(m³/hr)	Head feet	Capacity GPM	Weight(kg) 1Ø/3Ø	Solid passage mm	Dimension(mm)		
											Length	Width	Height
AF-08P	1(0.75)	2"(50)	3	Capacitor	8	0.2(12)	26	54	32	26	385	235	549
				Direct									503
AF-15AP	2(1.5)	3"(80)	3	Capacitor	8	0.6(36)	26	160	42	38	412	250	595
				Direct									547
AF-33P	3(2.2)	3"(80)	3	Direct	10	0.6(36)	33	160	44	40	412	250	570
AF-08U	1(0.75)	2"(50)	3	Capacitor	5	0.23(14)	16	62	31	42	385	235	549
				Direct									503
AF-15AU	2(1.5)	3"(80)	3	Capacitor	6	0.5(30)	20	132	42	46	412	250	595
				Direct									547
AF-35A	5(3.7)	3"(80)	3	Direct	16	0.5(30)	52	132	58	56	478	220	588
80AFP41.5	2(1.5)	3"(80)	3	Direct	8	0.5(30)	26	132	61	50	530	290	567
80AFP42.2	3(2.2)	3"(80)	3	Direct	10	0.6(36)	33	160	73	50	553	313	623
80AFP43.7	5(3.7)	3"(80)	3	Direct	14.5	0.6(36)	47	160	82	50	553	313	643
100AFP43.7	5(3.7)	4"(100)	3	Direct	11.5	1.0(60)	37	265	84	50	570	313	643
50AFU4.4	0.5(0.4)	2"(50)	3	Capacitor	3.5	0.25(15)	12	65	29	50	346	204	516
				Direct									28
50AFU4.8	1(0.75)	2"(50)	3	Direct	5	0.3(18)	16	80	27	50	391	202	531
80AFU4.15	2(1.5)	3"(80)	3	Direct	5	0.6(36)	16	160	60	76	500	256	622
80AFU4.22	3(2.2)	3"(80)	3	Direct	7	0.6(36)	23	160	73	76	538	289	673
80AFU4.37	5(3.7)	3"(80)	3	Direct	10	0.6(36)	33	160	80	76	538	289	697

Remark : Pump of U type impeller(3 phase) operating in a higher current when reverse,please adjust into fit directions.