

AF TYPE HEAVY DUTY SEWAGE PUMPS

■ FEATURES

◎ Finish

Pump surface is coated with an Epoxy paint to provide a superior surface protection and corrosion resistance.

◎ Bearings

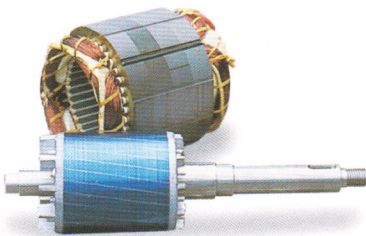
Heavy duty and high quality bearings are used to ensure longterm operation. The bearings are designed to meet the full specification of dimension, basic load ration, and bearing environment.

◎ WD water-detector

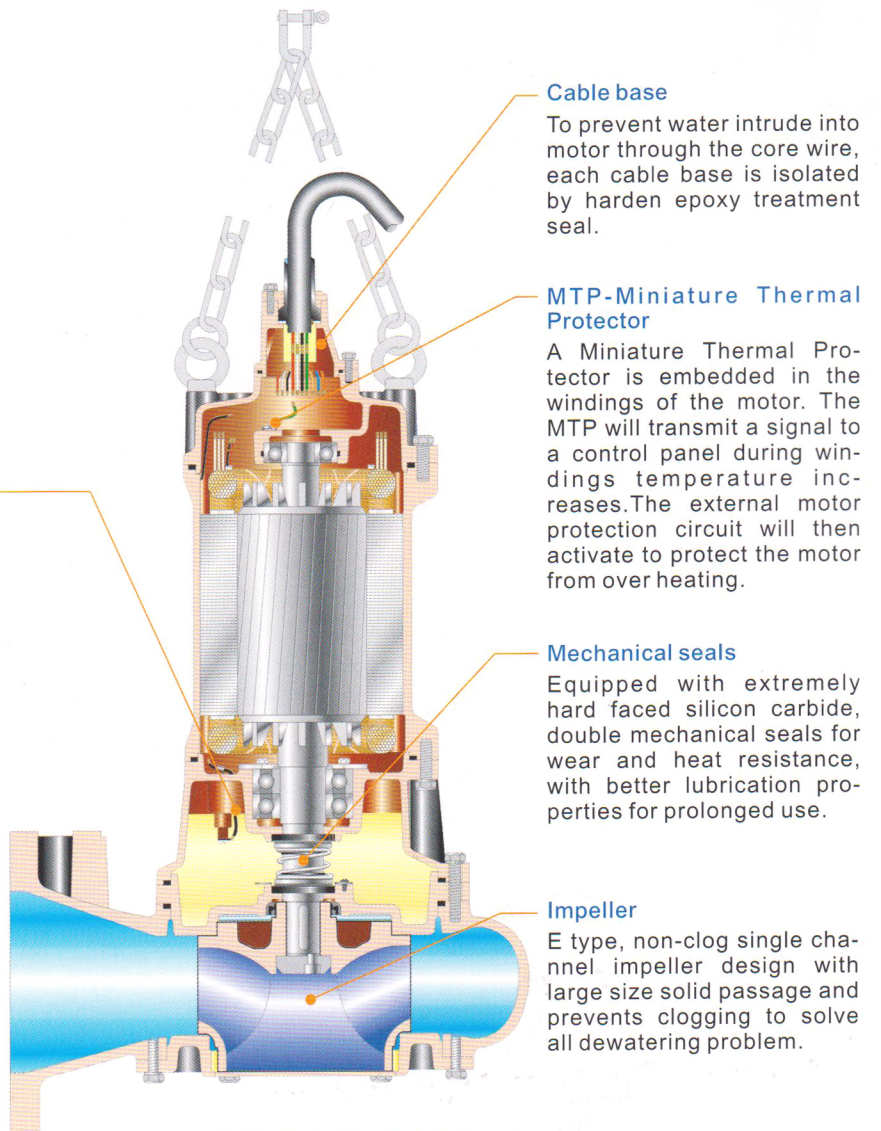
An optional mechanical seal leakage detector will send a signal to the control panel when water infiltration occurs. The use of the leakage detector helps prevent water from entering the motor chamber in case of mechanical seal failure.

◎ Electric motor

Dry type, high efficiency copper wound motors with F class insulation. The motors are produced under strict quality control procedure, the stator winding is impregnated with varnish resin and oven heated for up to 8 hours cure time.



● Building basement drainage



Cable base

To prevent water intrude into motor through the core wire, each cable base is isolated by harden epoxy treatment seal.

MTP-Miniature Thermal Protector

A Miniature Thermal Protector is embedded in the windings of the motor. The MTP will transmit a signal to a control panel during windings temperature increases. The external motor protection circuit will then activate to protect the motor from over heating.

Mechanical seals

Equipped with extremely hard faced silicon carbide, double mechanical seals for wear and heat resistance, with better lubrication properties for prolonged use.

Impeller

E type, non-clog single channel impeller design with large size solid passage and prevents clogging to solve all dewatering problem.

■ SPECIFICATION

Diameter(mm)		100 • 150 • 200	
Pumping liquid	Liquid temp.	0~40°C	
	Liquid nature	Waste water and sewage and industrial waste water	
	Max depth	30m	
Pump	Structure	Impeller	Enclosed channel • Semi-vortex
		Mech seal	Double Mechanical seal
		Bearing	Ball type bearing
	Material	Upper cover	FC-200
		Casing	FC-200
		Impeller	FC-200
		Wear Ring	Bronze
M.seal	Sic/Sic		
Motor	Type	Dry motor	
	Insulation. Polarity	F class.4P	
	Frequency	50Hz	
	Protector	A.C. motor protector (MTP:15~20HP)	
	Material	Frame	FC-200
		Main shaft	SUS420J2
cable		VCT(15HP~20HP:2PNCT)	

※Pumps can be manufactured with specific requirements.



AF-55 · 75



AF-610 · 615 · 620



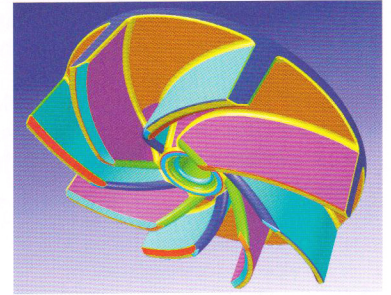
AF-815 · 820



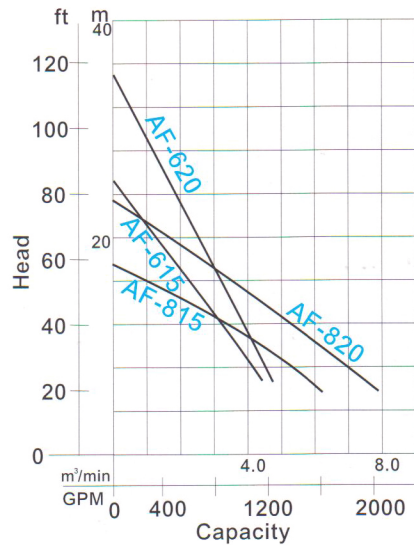
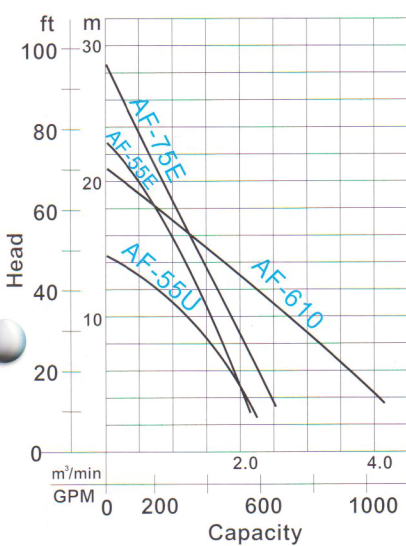
● TOS Guide rail system installation

© High efficiency impeller investigation

We utilize computerized engineering for assisting analysis of impeller performance, and 3D impeller design techniques to upgrade the precision and reduce designing period.



■ PERFORMANCE CURVE



● Multi-drainage waste water treatment plant.

■ PERFORMANCE SPEC.

Type	Power HP(kW)	Discharge Inch(mm)	Phase ϕ	Start Method	Head m	Capacity m³/min(m³/hr)	Head feet	Capacity GPM	Weight kg	Solid passage mm	Dimension(mm)		
											Length	Width	Height
AF-55U	7.5(5.5)	4"(100)	3	Direct	11	1.0(60)	36	265	139	65	687	385	807
AF-55E	7.5(5.5)	4"(100)	3	Direct	16	1.0(60)	53	265	146	40	687	385	807
AF-75E	10(7.5)	4"(100)	3	Direct	18	1.0(60)	59	265	163	40	687	385	816
AF-610	10(7.5)	6"(150)	3	Direct	11	2.5(125)	39	662	230	70	888	449	870
AF-615	15(11)	6"(150)	3	Y- Δ	15.5	2.5(125)	51	662	260	70	895	477	1026
AF-620	20(15)	6"(150)	3	Y- Δ	20	2.5(125)	66	662	172	76	806	455	938
AF-815	15(11)	8"(200)	3	Y- Δ	10	4.5(270)	33	1190	277	75	1045	501	1032
AF-820	20(15)	8"(200)	3	Y- Δ	14	4.5(270)	46	1190	285	75	1045	501	1032