

# **EA****F** Heavy Duty Submersible Sewage/Waste Water Pump

EAF-33  
 EAF-33N



EAF-35  
 EAF-35N



EAF-475  
 EAF-475N



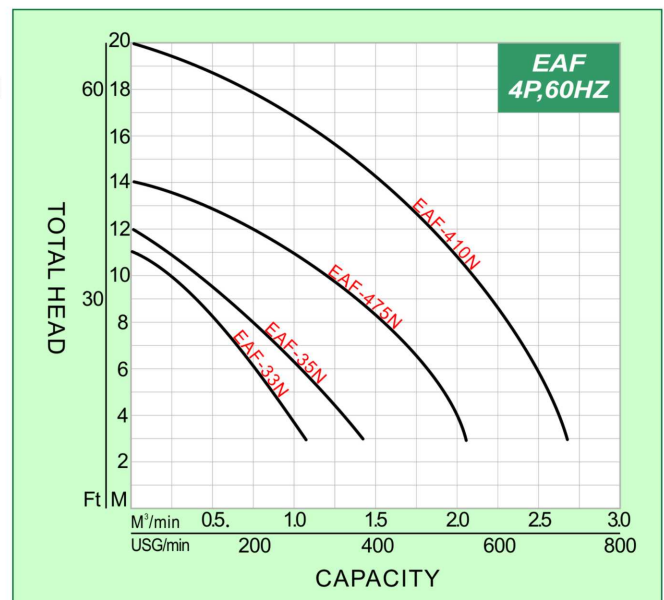
## **Features:**

1. Equipped with weatherproof and waterproof cable. Wiring and core wire are impregnated with EPOXY. Not only avoid the moist going into the motor, but also leakage-proof and moisture-proof.
2. All series motors are equipped with dry motor of 3-phase and 4 poles, coil of class F isolation. It is the character of overheat-resistant and perfect isolation. Enclosure is IP68 grade of protection.
3. The material of silicon carbide has the character of mud-resistant and excellent lubrication system and is good for long-time running. The dual enclosed structure has a diaphragm; it is preventing strongly from leaking.
4. Pump is equipped with the motor overload protector and will shut itself off automatically to prevent from overheating whenever its voltage drop, impeller plugged, the draining line is below the pump's watermark and other unusual conditions.
5. Pump is coated with thick EPOXY. It is better corrosion-resisting and rust-resisting than common paint; prevent the surface of pump from rusting.
6. Pump is equipped with the motor overload protector and will shut itself off automatically to prevent from overheating whenever its voltage drop, impeller plugged, the draining line is below the pump's watermark and other unusual conditions.
7. There are 3 kinds of impellers as the pictures. You can select close semi-open, closed and non-clogging. Suitable model will help you to do with properly all kind drainage of waste water or sewage.


## **Applications:**

1. Building waste water treatment system, sewage treatment plant, community market, sanitary sewer.
2. Drainage waste water from paper industry, dyeing industry, foodstuff industry, leather industry and iron and steel industry.
3. Fishery, animal husbandry, dairy farm, piggery, fecal sewage tank and industry water supply. Other sewage or sump treatment system.

## **Performance Curves**



## **Specification**

Impeller TYPE	Model	Cycle Hz	Phase PH	Rated Voltage VOLT	Starting	Output HP KW	Diameter Inch mm	Pole P	Rated Head M	Rated Flow M³/min	Max. Head M	Max. Flow M³/min	N.W. KG	Solid Passage mm
Impeller		Hz	PH	VOLT		HP KW	Inch mm	P	M	M³/min	M	M³/min	KG	mm
 Non-Clogging Impeller	EAF-33N	60	3Ø	Y / 220~240 Y / 380~415	Direct	3 2.2	3" 80	4P	9M	0.5	11M	1.18	71	42
	EAF-35N	60	3Ø	Y / 220~240 Y / 380~415	Direct	5 3.7	3" 80	4P	10M	0.5	12M	1.45	75	57
	EAF-475N	60	3Ø	Y / 220~240 Y / 380~415	Direct	7½ 5.5	4" 100	4P	11M	1.0	14M	2.12	143	60
	EAF-410N	60	3Ø	Y / 220~240 Y / 380~415	Direct	10 7.5	4" 100	4P	15M	1.0	20M	2.68	148	65

# **EA****F** Heavy Duty Submersible Sewage/Waste Water Pump

EAF-410  
 EAF-410N



EAF-615  
 EAF-815

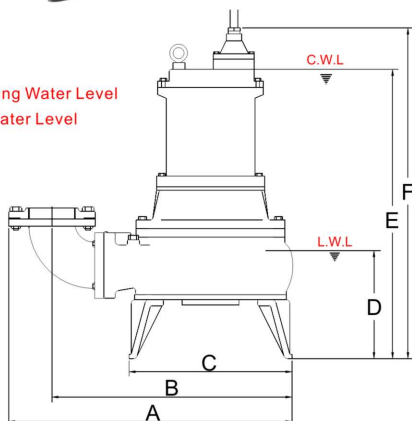


EAF-620  
 EAF-820



## ■ Dimension

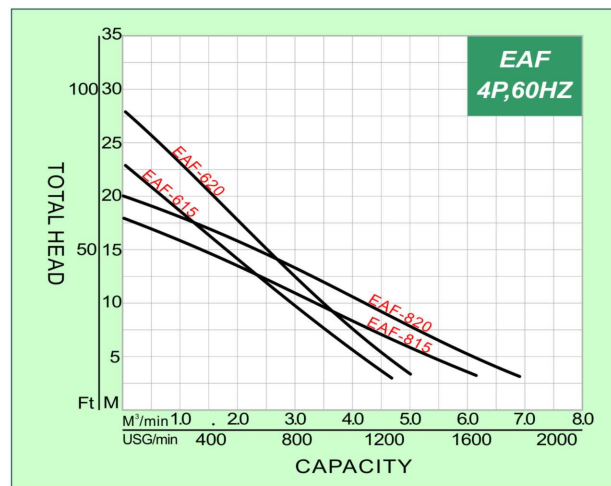
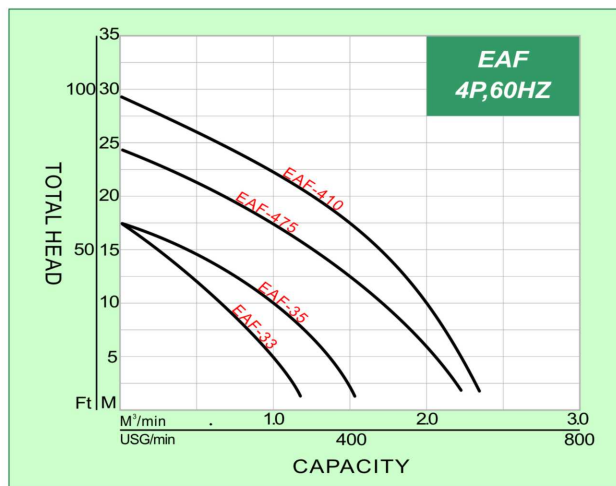
C.W.L: Continuously Running Water Level  
 L.W.L: Lowest Running Water Level



UNIT : mm

TYPE	A	B	C	D	E	F
EAF-33	315	450	540	205	580	650
EAF-35	325	495	600	230	630	700
EAF-475	395	580	685	260	700	800
EAF-410	580	580	685	260	710	810
EAF-615	860	720	450	315	890	995
EAF-620	860	720	450	335	960	1065

## ■ Performance Curves



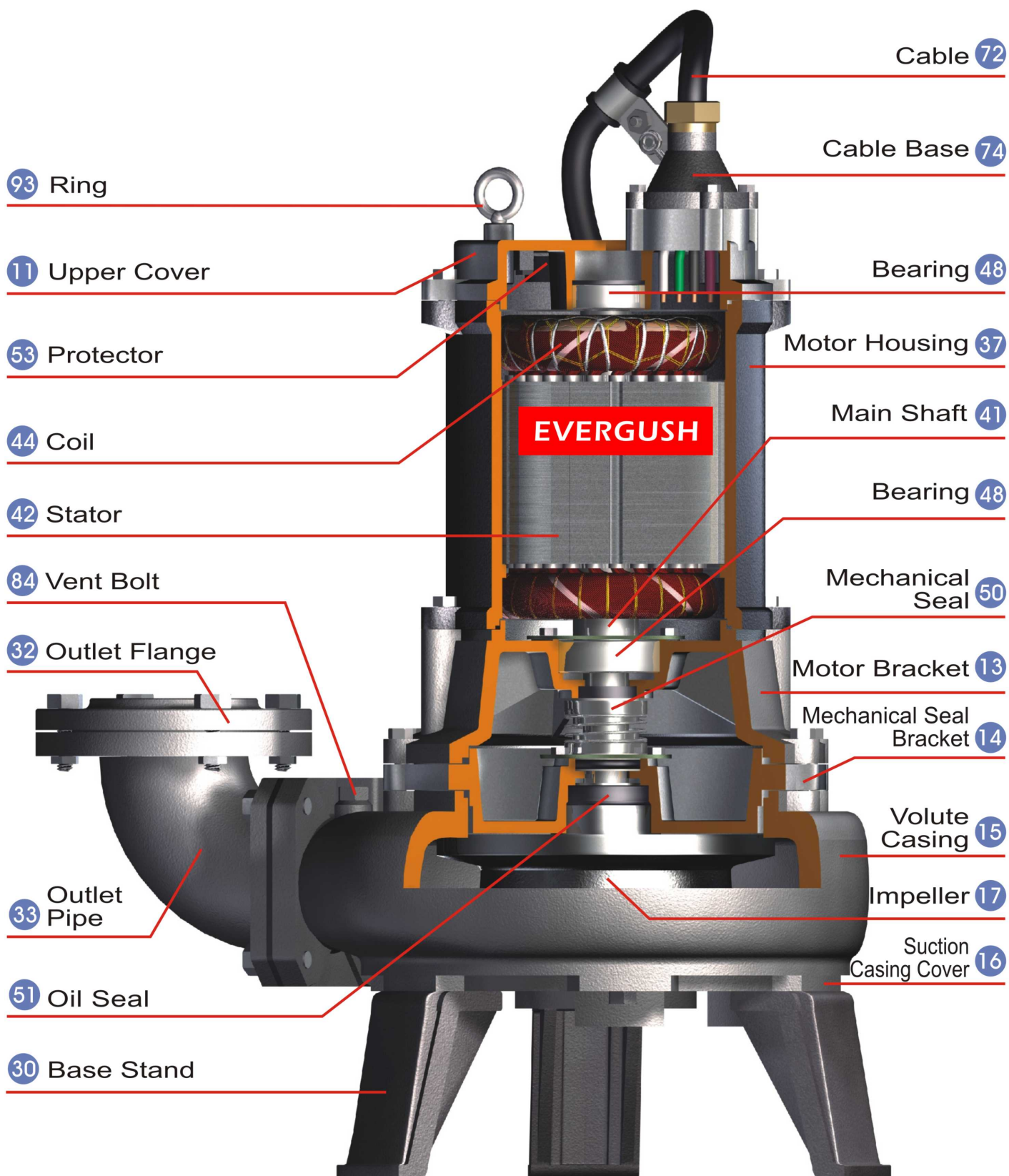
## ■ Specification

Impeller TYPE	Model	Cycle Hz	Phase PH	Rated Voltage VOLT	Starting	Output HP KW	Diameter Inch mm	Pole P	Rated Head M	Rated Flow M³/min	Max. Head M	Max. Flow M³/min	N.W. KG	Solid Passage mm
Impeller														
	EAF-33	60	3Ø	Y / 220~240 Y / 380~415	Direct	3 2.2	3" 80	4P	10M	0.5	18M	1.21	72	50
	EAF-35	60	3Ø	Y / 220~240 Y / 380~415	Direct	5 3.7	3" 80	4P	13M	0.5	18M	1.58	76	70
	EAF-475	60	3Ø	Y / 220~240 Y / 380~415	Direct	7 1/2 5.5	4" 100	4P	17M	1.0	25M	2.23	145	48
	EAF-410	60	3Ø	Y / 220~240 Y / 380~415	Direct	10 7.5	4" 100	4P	23M	1.0	30M	2.32	150	48
	EAF-615	60	3Ø	Y-Δ/220~240 Y-Δ/380~415	Y-Δ	15 11	6" 150	4P	12M	2.5	23M	4.70	265	70
	EAF-815	60	3Ø	Y-Δ/220~240 Y-Δ/380~415	Y-Δ	15 11	8" 200	4P	7M	4.5	18M	6.17	270	80
	EAF-620	60	3Ø	Y-Δ/220~240 Y-Δ/380~415	Y-Δ	20 15	6" 150	4P	16M	2.5	28M	5.00	280	70
	EAF-820	60	3Ø	Y-Δ/220~240 Y-Δ/380~415	Y-Δ	20 15	8" 200	4P	8M	4.5	20M	6.95	285	80



# **EAF** Heavy Duty Submersible Sewage/Waste Water Pump

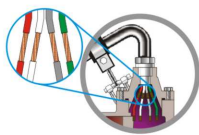
## ■ Sectional Drawing



# **EAF** Heavy Duty Submersible Sewage/Waste Water Pump

## ■ Main Parts

### Waterproof cable base



Wiring and core wire are impregnated with EPOXY. Not only avoid the moist going into the motor, but also leakage-proof and moisture-proof.

### Motor



All series motors are equipped with dry motor of 3-phase and 2poles or 4 poles, coil of class F isolation, IEC IP68 protection. It is the character of overheat-resistant and perfect isolation.

### Protector



Pump is equipped with the motor overload protector and will shut itself off automatically to prevent from overheating whenever its voltage drop, impeller plugged, the draining line is below the pump's watermark and other unusual conditions.

### Ball Bearing



The selection of bearing is the high precision of import ball bearing. It is the character of high precision circumgyration, reduce the noise, vibration and friction, extend the life of bearing.

### Silicon Carbide Mechanical Seal



The material of silicon carbide has the character of mud-resistant and excellent lubrication system and is good for long-time running. The dual enclosed structure has a diaphragm; it is preventing strongly from leaking.

### Surface Coating



Thick EPOXY coating is better corrosion-resistant and rust-resistant than common paint.

## ■ Materials of construction

Caliber			80mm, 100mm, 150mm, 200mm	
Coating			Epoxy	
Liquid	Liquid Temp.		0 °C ~ 40 °C (32 °F ~104 °F )	
	Liquid Character		Waste water from industrial, agriculture, husbandry, building.	
	Max. Depth		▽30M	
	Pump	Structure	Impeller	Non-Clogging impeller, Semi-open impeller, Channel impeller.
Mechanical Seal			Dual Mechanical Seal	
Material		Upper Cover	ASTM A48(FC-200)	
		Bearing	Heavy duty bearing	
		Impeller	ASTM A48(FC-200)	
		Volute Casing	ASTM A48(FC-200)	
		Seal Bracket	ASTM A48(FC-200)	
		Mechanical Seal	Lubricant	ISO VG. #32
			Motor Side	Carbon／Ceramic
Pump Side			Silicon Carbide／Silicon Carbide	
Inner protector			Percipience Instrument of seal leakage	
Motor	Type		Submersible Dry Type	
	Insulation Class		F Class (155 °C)	
	Pole/Cycle/Phase/Vol.		4P／60Hz／3Φ／220V~480V	
	Built-in protector		Auto motor overload protector	
	material	Casing	ASTM A48 (FC200)	
		Main Shaft	AISI 410	
		Cable	VCT	