

PFEF-Series Effluent Pumps

General

PFEF-Series Effluent Pumps are submersible and designed to transport liquids and solid waste to low-pressure (gravity) dispersal areas. The pump housing and cover are epoxy-coated cast iron with stainless steel hardware and corrosion resistant seals. Rated for continuous duty, all PFEF pumps are CSA and UL listed and manufactured by Franklin Electric.



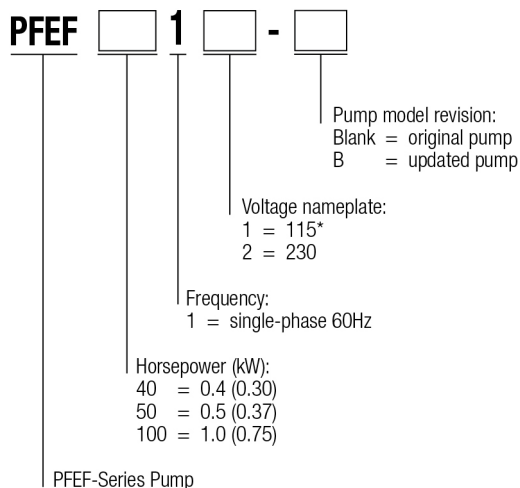
Applications

PFEF-Series Pumps are used primarily for pumping effluent to low-pressure (gravity) dispersal areas. They can handle solids up to 3/4in (19mm) in diameter, and their corrosion-resistant construction makes them highly durable in wastewater applications. Their oil-filled motor housing offers lifetime lubrication and rapid heat dissipation. The pumps come with a three-year warranty from date of manufacture.

Standard Models

PFEF4011-B, PFEF4012, PFEF5011-B, PFEF5012-B, PFEF10012-B

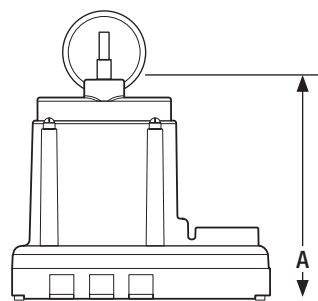
Product Code Diagram



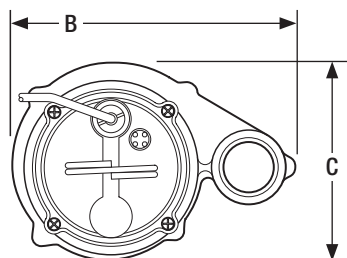
*available for 0.4hp and 0.5hp only

Materials of Construction

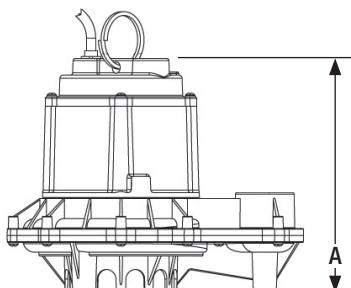
Component	PFEF4011-B	PFEF4012	PFEF5011-B	PFEF5012-B	PFEF10012-B
Motor housing	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron
Impeller	Thermoplastic elastomer	Thermoplastic elastomer	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron
Volute	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron	Epoxy-coated cast iron
Power cord	18/3, SJTW	18/3, SJTW	14/3, SJOW	14/3, SJOW	16/3, STW
Mechanical shaft seal	Carbon/ceramic-faced nitrile	Carbon/ceramic-faced nitrile	Carbon/ceramic-faced nitrile	Carbon/ceramic-faced nitrile	Carbon/ceramic-faced nitrile
Upper bearings	Ball	Ball	Ball	Ball	Ball
Lower bearings	Ball	Ball	Ball	Ball	Ball
Shaft	Steel	Steel	416 stainless steel	416 stainless steel	416 stainless steel
Fasteners	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel



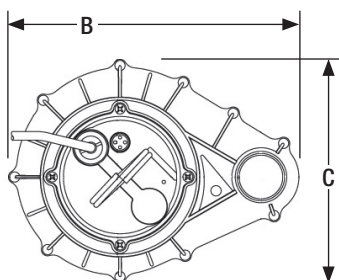
PFEF4011-B, side view



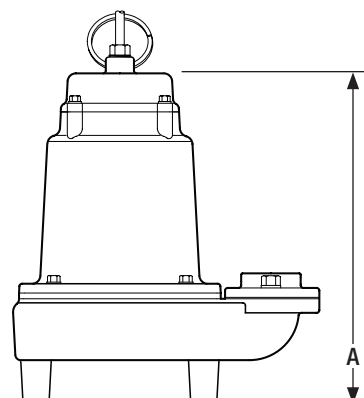
PFEF4011-B, top view



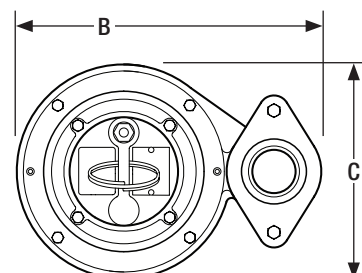
PFEF4012, side view



PFEF4012, top view



PFEF5011-B and PFEF10012-B, side view



PFEF5011-B and PFEF10012-B, top view

Pump Specifications

Dimensions, in (mm)	PFEF4011-B	PFEF4012	PFEF5011-B	PFEF5012-B	PFEF10012-B
A Height	11 (279)	11 (279)	16.2 (411.5)	13.8 (351)	16.2 (411.5)
B Width	8.9 (226)	8.9 (226)	14.1 (358)	12.3 (312)	14.1 (358)
C Depth	8.4 (213)	8.4 (213)	9.9 (251)	9.5 (241)	9.9 (251)
Discharge size*	1 1/2in FNPT	1 1/2in FNPT	2in FNPT	2in FNPT	2in FNPT
Cord length, ft (m)	20.0 (6.1)	20.0 (6.1)	20.0 (6.1)	20.0 (6.1)	20.0 (6.1)
Weight, lb (kg)	27.5 (12.5)	27.5 (12.5)	82 (37.2)	56.0 (25.4)	89 (40.4)

*Discharge is NPT threaded receptacle-style port, US nominal size, to accommodate Orenco discharge hose and valve assemblies. Consult your Orenco distributor about fittings to connect discharge assemblies to metric-sized piping.

Performance

	PFEF4011-B	PFEF4012	PFEF5011-B	PFEF5012-B	PFEF10012-B
Horsepower (kW)	0.4 (0.3)	0.4 (0.3)	0.5 (0.37)	0.5 (0.37)	1.0 (0.75)
Nameplate voltage	115	230	115	230	230
Maximum amps	7.5	4	12.5	9.7	11.5
Minimum liquid level, in (mm)	9.0 (230)	9.0 (230)	13.8 (351)	13.8 (351)	13.8 (351)
Impeller type	Non-clog	Non-clog	Non-clog	Non-clog	Non-clog

Using a Pump Curve

A pump curve helps you determine the best pump for your system. Pump curves show the relationship between flow (gpm or L/sec) and pressure (total dynamic head, or TDH), providing a graphical representation of a pump's optimal performance range. At low flow rates, TDH varies from pump to pump, so it is represented as a dashed line in the pump curves. For the most accurate pump specification, use Orenco's PumpSelect™ software.

