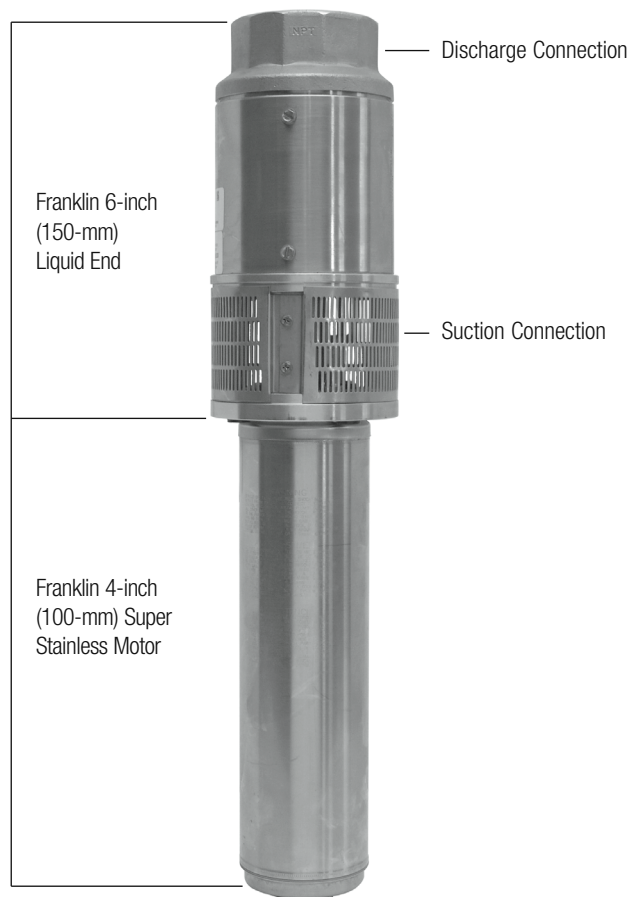


PF High-Flow 60-Hz Submersible Effluent Pump

Applications

Orenco's PF High-Flow Submersible Effluent Pumps are designed to transport screened effluent (with low TSS counts) in AdvanTex® AX-Max™ and AX-Mobile™ Treatment Systems. They are also used in pump applications where high flows are required.

Because PF High-Flow pumps have 6-inch (150-mm) liquid ends, a 7-inch (178-mm) flow inducer is required to house them.



Orenco® PF1452012 pump

General

PF High-Flow pumps combine a 6-inch (150-mm) liquid end and a 4-inch (100-mm) pump motor to provide high flow and high head in applications where both are necessary. They are constructed of corrosion-resistant stainless steel and engineered plastics.

PF High-Flow pumps are servicable in the field with common tools. Because of their specific applications, they are not rated for run-dry capability. All PF pumps are CSA certified to the U.S. and Canadian safety standards for effluent pumps, meeting UL requirements.

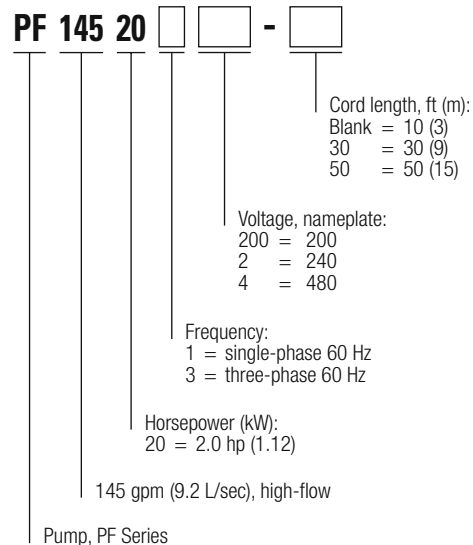
To specify this pump for your installation, require the following:

- Franklin Electric Super Stainless motor, rated for continuous use and frequent cycling
- Type 14/4 SOOW 600-V motor cable

Standard Models

PF1452012, PF1452032, PF145203200, PF1452034

Product Code Diagram



Specifications

Pump Model	Design gpm (L/sec)	Horsepower (kW)	Phase	Nameplate voltage	Actual voltage	Design flow amps	Max amps	Impellers	Discharge size and material ¹	Length, in. (mm)	Min. liquid level, ² in. (mm)	Weight, ³ lb (kg)	Rated cycles/day
PF1452012	145 (9.2)	2.0 (1.5)	1	230	240	11.2	11.5	1	3 in. SS	26.0 (660)	26.0 (660)	50 (23)	100
PF1452032	145 (9.2)	2.0 (1.5)	3	230	240	6.7	6.7	1	3 in. SS	24.5 (622)	24.0 (610)	46 (21)	300
PF145203200	145 (9.2)	2.0 (1.5)	3	200	208	8.2	8.2	1	3 in. SS	24.5 (622)	24.0 (610)	46 (21)	300
PF1452034	145 (9.2)	2.0 (1.5)	3	460	480	3.5	3.6	1	3 in. SS	24.5 (622)	24.0 (610)	46 (21)	300

Materials of Construction

Discharge	Stainless steel
Suction connection	Stainless steel
Discharge bearing	Neoprene
Drive shaft	5/8-in (15.9-mm) hexagonal stainless steel
Diffuser	Noryl GFN3
Coupling	Stainless steel
Impeller	Noryl GFN3
Shell	Stainless steel
Intake screen	Stainless steel

Motor: Franklin Electric Super Stainless® motor. Filled with deionized water and propylene glycol for constant lubrication. Hermetically sealed motor housing. Kingsbury-type thrust bearings. Rated for continuous duty. Single-phase motors have built-in thermal overload protection, which trips at 203-221° F (95-105° C) . For three-phase motors, control panels featuring thermal overload protection are recommended. 2-hp (1.5-kW) motors are equipped with surge arrestors for added security.

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. Pumps perform best at their nominal flow rate — the value, measured in gpm, expressed by the first two numerals in an Orenco pump nomenclature. The graph to the right uses a solid line to show the optimal pump operation range. Dashed lines indicate flow rates outside of this range. For most accurate pump specification, use Orenco's PumpSelect™ software.

