

P Series High-Head Effluent Pumps

Technical Data Sheet

Applications

Our submersible High-Head Effluent Pumps are designed to transport screened effluent (with low TSS counts) from septic tanks or separate dosing tanks to collection and treatment systems. All our pumps are constructed of lightweight, corrosion-resistant stainless steel and engineered plastics; all are field-serviceable and repairable with common tools; and all standard P Series models are UL and CSA listed for use with effluent.

Orengo High-Head Effluent Pumps are used in a variety of applications, including drainfields, packed bed filters, mounds, aerobic units, effluent irrigation, effluent sewers, wetlands, lagoons, and more.



Actual view

Features/Unique Specifications

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

- Minimum 24-hour run-dry capability without water lubrication;
- 1/8-inch bypass orifice to ensure flow recirculation for motor cooling and to prevent air bind;
- Floating stack design to protect against upthrust and increase pump life;
- Repairable (nondisposable) liquid end for better long-term cost of ownership;
- Corrosion-resistant construction;
- Franklin motor rated for continuous use and frequent cycling;
- Type SOOW motor cable (suitable for Class I, Division 1 and 2 applications);
- Optional 5-year extended warranty against defects in materials or workmanship.

Standard Models

See specifications (on back) for a complete list. Call Orengo or your nearest distributor for three-phase specifications.

Nomenclature

P □ □ □ □ □ - □ □	Cord length: Blank = 10' 20 = 20' 30 = 30'
	Voltage: 1 = 115 (1/2 hp only) 2 = 230
	Phase: 1 = single-phase 3 = three-phase
	Horsepower: 05 = 1/2 hp 07 = 3/4 hp 10 = 1 hp 15 = 1-1/2 hp 20 = 2 hp 30 = 3 hp 50 = 5 hp
	Nominal flow (gpm): 10 20 30 50

Pump (P Series)



Orengo Systems[®]
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1-800-348-9843

P Series High-Head Effluent Pumps (continued)

Specifications

	Hp ¹	Amps ²	Nom. Flow (gpm)	Discharge (in.)	Length (in.)	MLL ³ (in.)	Cable ⁴	Listings	Rated Cycles/Day
P1005	0.50	12/6	10.0	1.25	22.50	20	SOOW	UL/CSA	300
P1007	0.75	8.0	10.0	1.25	25.00	22	SOOW	UL/CSA	300
P1010	1.00	9.8	10.0	1.25	28.00	24	SOOW	UL/CSA	100
P2005	0.50	12/6 ⁵	20.0	1.25	22.75	20	SOOW	UL/CSA	300
P2010	1.00	9.8	20.0	1.25	27.00	25	SOOW	UL/CSA	100
P2015	1.50	13.1	20.0	1.25	32.50	28	SOOW	UL/CSA	100
P3005	0.50	12/6	30.0	1.25	21.50	22	SOOW	UL/CSA	300
P3007	0.75	8.0	30.0	1.25	24.00	24	SOOW	UL/CSA	300
P3010	1.00	9.8	30.0	1.25	26.50	27	SOOW	UL/CSA	100
P3015	1.50	13.1	30.0	1.25	32.50	29	SOOW	UL/CSA	100
P3020	2.00	13.2	30.0	1.25	34.50	25	SOOW	CSA	100
P3030	3.00	17.0	30.0	1.25	43.75	44	SOOW	CSA	100
P3050	5.00	27.5	30.0	1.25	67.00	66	SOOW	CSA	100
P5005	0.50	13.2/6.6	50.0	2.00	20.50	22	SOOW	UL/CSA	300
P5007	0.75	8.0	50.0	2.00	24.75	24	SOOW	UL/CSA	300
P5010	1.00	9.8 ⁵	50.0	2.00	28.00	27	SOOW	UL/CSA	100
P5015	1.50	13.1	50.0	2.00	33.25	29	SOOW	UL/CSA	100
P5030	3.00	17.0	50.0	2.00	49.00	48	SOOW	CSA	100
P5050	5.00	27.5	50.0	2.00	63.50	50	SOOW	CSA	100
AdvanTex Pump									
PAX	0.50	12/6	10.0	1.25	19.75	18	SOOW	UL/CSA	300

1. All 1/2 horsepower pumps are available in 115 and 230 voltage models.

2. Maximum sustained amperage (service factor load). The paired amperage numbers for 1/2 hp pumps are for 115 and 230 volts respectively. All other numbers are for 230 volts.

3. Minimum liquid level.

4. SOOW type is suitable for Class I, Division 1 and 2 applications.

5. Actual running amperage may exceed the motor's nameplate amperage by 20% (UL778).

Materials of Construction

Discharge: Fiberglass-reinforced thermoplastic or stainless steel (P50)

Intake Screen: Polypropylene

Discharge Bearing: Nylon polymer

Suction Connection: Fiberglass-reinforced thermoplastic

Diffusers: Polycarbonate

Drive Shaft: 7/16 inch hexagonal stainless steel

Impellers: Acetal

Coupling: Stainless steel

Thrust Pads: (Proprietary)

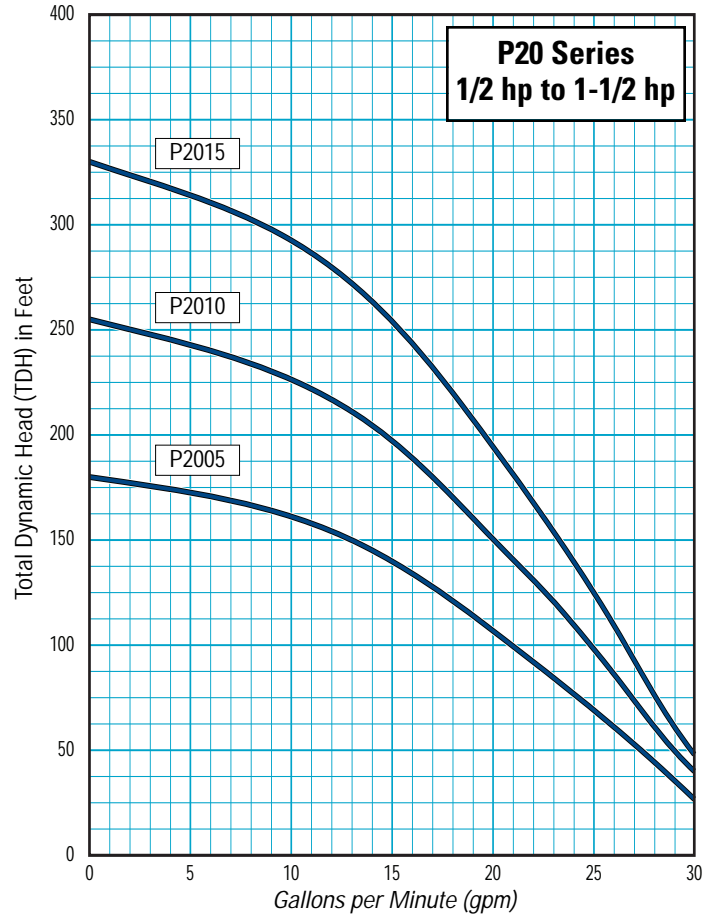
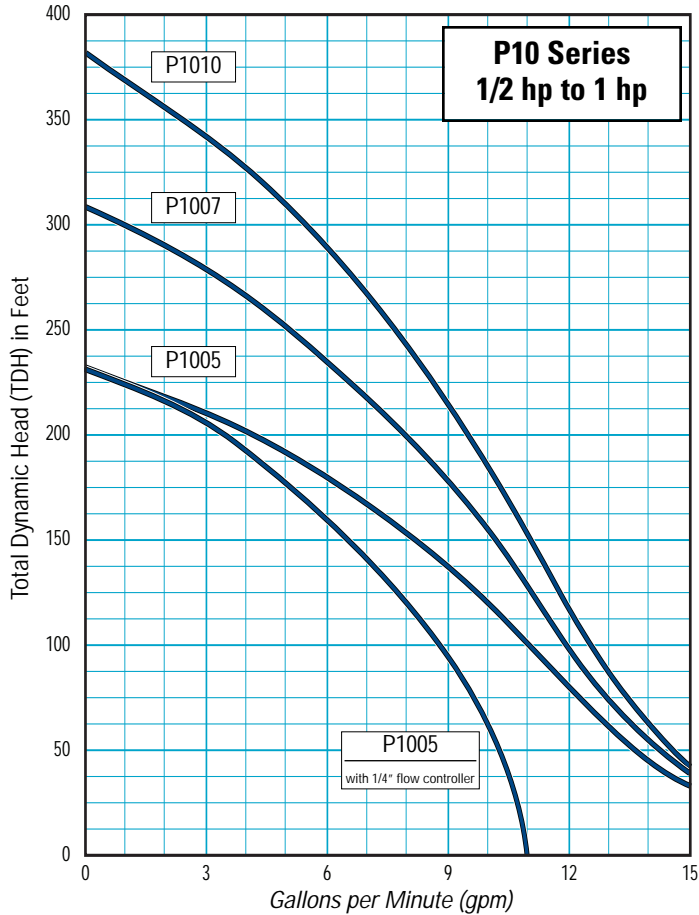
Shell: Stainless steel

Motor: Franklin motor exterior constructed of stainless steel. Constant lubrication through water-filled design. Hermetically sealed motor assures moisture-free windings. All thrust absorbed by Kingsbury type thrust bearing. Rated for continuous duty. Protected against thermal overload and equipped with surge arrestors for added security. NEMA standard 2-wire or 3-wire (2, 3, and 5 hp) motor with ground. Control box required for 3-wire motors.

P Series Pump Curves

Using a Pump Curve

A *pump curve* helps you determine the best pump for your system. Pump curves show the relationship between flow (gpm) and pressure (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.



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