



EAST SEVIER COUNTY UTILITY DISTRICT

Business Office: 865.446.2075 1016 DOLLY PARTON PARKWAY SUITE 01 SEVIERVILLE TN 37862 [HTTPS://EASTSEVIER.COM](https://EASTSEVIER.COM)

East Sevier County Utility District Requirements for Water and or Sewer Taps

Beginning September 01, 2026

(Please note your Will Serve must be issued by ESCUD only)

1. Application completed and approved. All application fees and tap fees must be paid in full. Taps will not be scheduled until payment in full is received including but not limited to any additional charges for water and or sewer line extensions.
2. Conditional Will Serves will be issued after review of house plans, site inspection and in some resort's confirmation HOA has approved. Conditional Will Serves are good for one year from date of issue and are non-transferable.
3. Water and Sewer taps, need a minimum two (2) week lead time.
4. ESCUD will provide spec sheet for sewer pump kits that work with our WWTP or STEP System.
5. An ESCUD employee or ESCUD Contractor will need to inspect sewer pump kit, tank, lines and control panel after installation. Final Will Serves will not be issued until you have passed the inspection.

Water tap fees English Mountain and The Preserve: \$2000.00 (subject to change without notice)

English Mountain Sewer tap fees: \$2000.00 **English Mountain is not accepting new sewer connections at this time, we will be happy to issue a letter for you to obtain a septic permit from the Sevier County Environmental Department.

Sewer tap fees: \$2500.00 (subject to change without notice)

Water charges start when the meter is installed. Sewer Charges start when you pass the final inspection

If accounts are in the buyer's name, please inform them they will be getting billed for services during build. If in the builder's name you will be responsible for monthly payments on account.

Builders are responsible for any/all damage to water meters and taps during construction

Examples include Trucks running over and breaking products/connections, meters etc

Failure to have the site ready for inspection will result in rescheduling service and could result in additional charges .

FAILURE TO PAY MONTHLY CHARGES WILL RESULT IN WATER SHUT OFF



Sewer Pump Kits:

ESCUD Wastewater Treatment STEP Plants are designed for liquid only, no solids. We require an Orenco Sewer Pump or equivalent per engineer plans and TDEC approval. Sewer kit can be purchased through Premier Systems LLC, SOS Inc, or an Orenco Dealer of your choice. Biotube ProPack 60Hz Pump Package with a 48" pump vault height is required. To ensure the installation of the correct pump, refer to the certified pump curve per manufacturer and specs to ensure pump will reach the Wastewater Treatment Plant.

You will need an Effluent Pumping System.

Tanks:

1500-gallon STEP tanks are required on a 1-5-bedroom, 1-15-person occupancy. Over a 5-bedroom home 16- 20-person occupancy will require a 2100-gallon STEP tank up to a 7-bedroom, 21-person occupancy.

If fiberglass tanks are proposed, you will be required to sit a IM-1530 Infiltrator 2-compartment and a IM-540 pump tank. A sanitary Tee is required on the inlet coming from the house and the outlet pipe going to the pump tank if using a two-tank system.

4" pipe must connect the two tanks with a sanitary Tee in the pump tank. Risers with lids will be required at the tank's inlet, the pump compartment, and on the outlet if setting 2 tanks.

Lids will need to be MINIMUM level with final grade.



Electrical:

Two separate 120v services. One for the control panel, one for the pump. If the pump requires 240v you must have a 240v for the pump and 120v for the control panel. See pump/panel specs for AMP sizing.

Install pumps, wiring, and controls in accordance with state and local electrical codes and manufacturer's instructions. Exterior wiring will be incased in 1" Schedule 80 PVC for above ground and Schedule 40 for below ground. Code for depth will be followed by NFPA, NEC. ALL electrical will have to be inspected and approved with the final electrical inspection before final Will-Serve will be issued.

Taps:

A Tee or Saddle will be connected to the force main followed by a ball valve then a check valve (flow towards the force main). MINIMUM 1.25" schedule 40 will be used for the tap. If there is an existing tap use the size that is already there for the service line. A Fiberglass Gasketed lid with fiberglass access risers shall be over the ball valve and check valve.

Avoid putting the sewer tap under a driveway or the road. IF a tap and or service line HAS to go under the road or driveway it is required to case the service line in MINIMUM 4" schedule 80 PVC. IF tap and or service line are under the driveway/road the utility will be responsible for the service line and or tap repair, however the OWNER/CONTRACTOR will be responsible for the driveway and or road repairs.

Tracer wire is required from the service line coming out of the riser at the pump to the tap box at the road.



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Additional Approvals:

Homes over 7-bedrooms and/or 21-person occupancy will require approval from the utility.

Final Notes:

Failure to complete these requirements will result in not receiving the Final Will Serve on the property. Rejections of any nature will come at the cost of the
CONTACTOR/INSTALLER

**see drawings for specs and examples

INSTALLING INCORRECT SEWER PUMP OR GRINDER PUMP WILL RESULT IN
CHARGES FOR ANY AND ALL DAMAGES TO WASTEWATER
TREATMENT PLANT AND DRIP FIELDS

East Sevier County Utility District (ESCUD)
1016 Dolly Parton Parkway Suite 01 Sevierville, TN 37862
Business Office: 865.446.2075 <https://eastsevier.com>



PART 1: GENERAL & REGULATORY

1.01 SCOPE OF WORK

A. This specification governs the minimum standards for materials, equipment, and installation of Septic Tank Effluent Pumping (STEP) systems connecting to the ESCUD force main network.

1.02 REGULATORY COMPLIANCE & APPROVALS

A. All wastewater infrastructure designs shall strictly conform to engineering plans and maintain formal Tennessee Department of Environment and Conservation (TDEC) approval.

B. Residential structures exceeding a seven (7) bedroom or fourteen (14) person occupancy capacity shall require custom engineering review and written authorization from the Utility prior to construction.

C. Final utility approval and issuance of a "Will-Serve" letter are strictly contingent upon successful completion, inspection, and verification of all provisions herein. Non-compliant installations shall be subject to immediate rejection at the sole expense of the Contractor/Installer.

1.03 LIABILITY & POLICY NOTICE

A. Effective July 15, 2024, ESCUD does not procure, sell, or install onsite effluent pumping equipment.

B. System Compatibility: ESCUD Wastewater Treatment Plants are engineered exclusively for liquid effluent processing. Solid waste discharge is strictly prohibited.

C. Damage Indemnification: Installation of unauthorized or non-compliant equipment—including standard grinder pumps—is prohibited. The Contractor/Installer shall assume full financial liability for any and all direct or consequential damages sustained by the ESCUD treatment plant and subsurface drip fields resulting from non-compliant equipment installation.



PART 2: PRODUCTS & EQUIPMENT

2.01 EFFLUENT PUMPING SYSTEMS

- A. Equipment Standard: Pumping units shall be an Orenco Sewer Pump system or an approved engineered equivalent.
- B. Specified Package: System shall be an Effluent Pumping System configured as an Orenco Biotube® ProPack™ 60Hz Pump Package featuring a forty-eight inch (48") pump vault height.
- C. Hydraulic Verification: The Contractor shall analyze the certified manufacturer pump curve and technical specifications to verify that the selected unit provides sufficient Total Dynamic Head (TDH) to discharge into the ESCUD Wastewater Treatment Plant.
- D. Approved Distributors: Equipment shall be procured via Premier Systems LLC, SOS Inc., or an authorized Orenco dealer.

2.02 STEP STORAGE & PUMP TANKS

- A. Sizing Criteria: Tank volumetric capacity shall be scaled to structural occupancy as follows:
1. Structures up to 5-bedrooms / 10-person capacity: Minimum 1,500-gallon STEP tank.
 2. Structures 6 to 7-bedrooms / 11 to 14-person capacity: Minimum 2,100-gallon STEP tank.
- B. Fiberglass Alternatives: Where fiberglass tanks are specified, a dual-tank configuration is mandatory. The assembly shall comprise one (1) IM-1530 Infiltrator 2-compartment tank paired with one (1) IM-540 pump tank.
- C. Piping and Fittings:
1. Provide a sanitary Tee at the influent pipe entering from the structure.
 2. Provide a sanitary Tee at the effluent discharge pipe exiting to the pump tank.
 3. Dual-tank configurations shall be interconnected via a four-inch (4") nominal diameter pipe terminating at a sanitary Tee inside the pump tank.
- D. Access Risers and Enclosures: Provide heavy-duty access risers equipped with gasketed, secure lids positioned over the tank primary inlet, the pump compartment, and the secondary
-



outlet (on dual-tank configurations). Finished grade shall sit entirely flush with or below the top of the riser lids (Minimum Level with Final Grade).

2.03 ROCK EXCAVATION, BEDDING, AND BACKFILL

A. Rock Excavation

1. Extent of Removal: Excavate and hammer rock encountered within tank excavations or service line trenches to achieve a minimum undercut of six inches (6") below design grade.
2. Excavation Limits: Rock removal shall include the full footprint of the tank or trench and shall extend laterally as required to achieve proper subgrade preparation.

B. Bedding Materials

1. Stone Bedding Thickness: Provide six inches (6") minimum of 0.5"–0.75" washed stone over all areas where rock has been removed.
2. Placement Areas: Install stone bedding beneath: a. STEP tanks b. Pump tanks c. Service line trench segments where rock removal occurred
3. Lateral Extension: Stone bedding shall extend across the entire area where rock was removed and shall continue twenty-four inches (24") laterally beyond all boundaries of the rock removal zone.
4. Bedding Installation: Bedding shall be level, compacted, and free of fines. Provide a uniform, stable, non-point-loading support surface.

C. Suitable Backfill

1. Backfill Material Requirements: Provide clean, non-cohesive, granular soil meeting the following criteria:
 - o Free of rock fragments larger than 2 inches (2")
 - o Free of organic matter, debris, frozen material, or high-plasticity clays
 - o Capable of achieving uniform compaction without voids or bridging
2. Backfill Placement: Place backfill in maximum 8-inch (8") lifts, compacting each lift to achieve a stable, non-settling mass around tanks and service lines.



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3. Backfill Around Tanks: Backfill shall be placed evenly around tank sidewalls to prevent lateral displacement or distortion. Do not allow differential loading on any portion of the tank.
4. Backfill Over Bedding: Backfill shall not disturb or displace the stone bedding layer. Any movement or contamination of bedding shall require removal and replacement at the Contractor's expense.
5. Prohibited Backfill Materials:
 - o Large rock, boulders, or rubble
 - o High-plasticity clay soils
 - o Construction debris
 - o Frozen soil
 - o Any material that cannot be compacted uniformly

D. Prohibited Practices

1. Tanks or piping shall not be set directly on hammered rock surfaces.
2. Native soil or unprocessed aggregate shall not be used as bedding over rock.
3. Backfill shall not be dumped in bulk lifts or compacted with equipment that risks tank deformation.

PART 3: EXECUTION & ELECTRICAL

3.01 ELECTRICAL INFRASTRUCTURE

- A. Service Lines: Provide two (2) independent, dedicated 120V electrical services to the site: one (1) for the system control panel and one (1) for the effluent pump. Where pump specifications dictate 240V operation, provide one (1) dedicated 240V service for the pump and one (1) dedicated 120V service for the control panel.
- B. Amperage: Sizing of overcurrent protection devices and conductors shall conform strictly to manufacturer panel and pump submittals.
- C. Installation Codes: Electrical infrastructure shall be installed in strict accordance with the National Electrical Code (NEC), National Fire Protection Association (NFPA) standards, and state/local ordinances.



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D. Conduit Specifications: Exterior conductors shall be continuously encased in rigid polyvinyl chloride (PVC) conduit.

1. Above-Grade Runs: Schedule 80 PVC (1" minimum diameter).
2. Below-Grade Runs: Schedule 40 PVC (1" minimum diameter) buried to depths mandated by code.

E. Inspection: All electrical components shall pass final municipal/state electrical inspection prior to utility service activation.

3.02 FORCE MAIN TAPS & SERVICE CONNECTIONS

A. Connection Order: Connections to the utility force main shall be executed utilizing an approved Tee or Saddle fitting, followed sequentially by an isolation ball valve and a inline check valve. Direction of flow shall be oriented towards the force main.

B. Lateral Sizing: Service laterals shall utilize a minimum 1.25" diameter Schedule 40 PVC pipe. Where a pre-existing tap is utilized, the service line shall match the nominal diameter of the existing infrastructure.

C. Valve Enclosure: Ball and check valve assemblies shall be housed within fiberglass access risers capped with a gasketed fiberglass lid.

D. Pavement Right-of-Way Restrictions:

1. Alignment: Avoid routing sewer taps and service laterals beneath driveways, parking surfaces, or roadways wherever feasible.
2. Encasement: Where geometric constraints force a service line or tap to cross beneath a driveway or public roadway, the entire crossing segment shall be encased within a continuous sleeve of minimum 4" Schedule 80 PVC pipe.
3. Maintenance Boundary: ESCUD shall retain responsibility for the structural repair of the subsurface pipe and tap within the utility right-of-way. The Property Owner and Prime Contractor shall assume all liability and financial responsibility for surface restorations, including concrete patching, subgrade compaction, and asphalt paving.



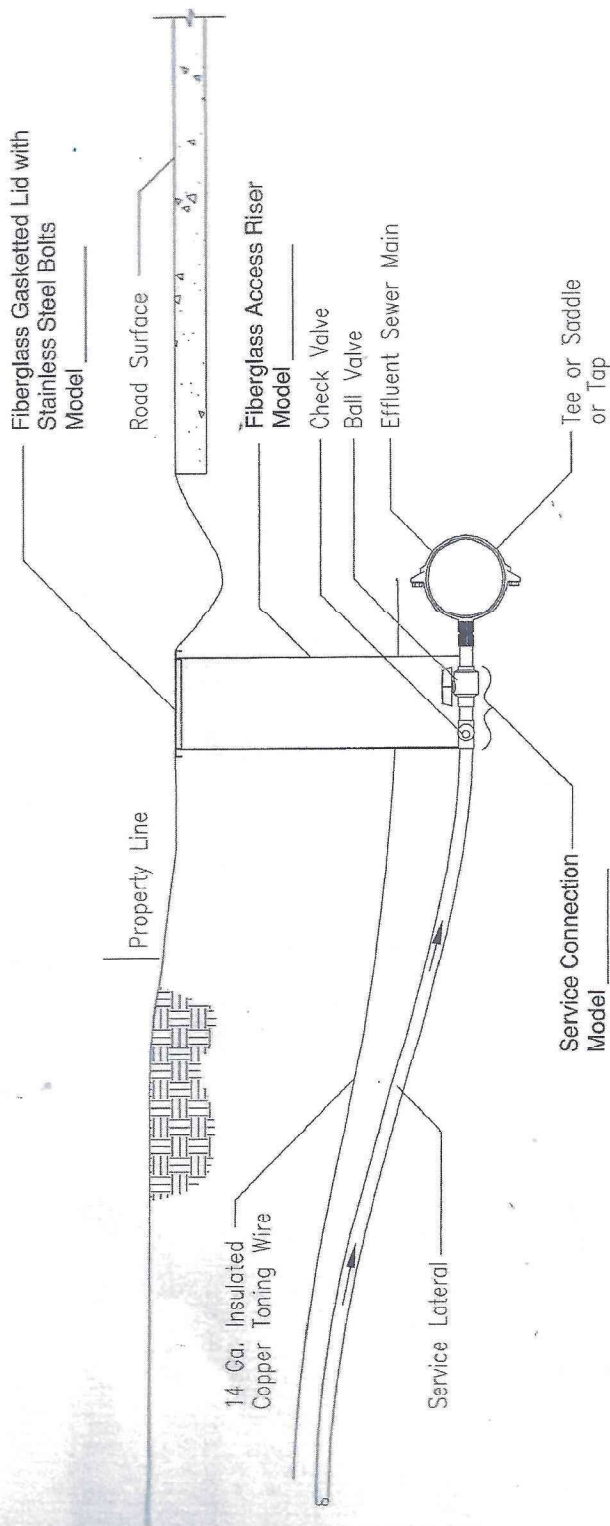
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E. Utility Locating: Install a continuous, solid copper tracer wire from the service line exit at the pump riser to the terminal tap box located at the roadway right-of-way. Refer to project engineering drawings for typical installation details, schematics, and structural examples.

See Drawings and Requirements for Final Inspection

Effluent Sewer Service Connection



All service line connections shall be solvent welded. The only acceptable solvents and cements are those that are recommended by the pipe manufacturer. All service laterals from the effluent sewer main to the property line shall be pressure tested prior to any backfilling.

Specifications

Pump Model	Design gpm (L/sec)	Horsepower (kW)	Phase	Nameplate voltage	Actual voltage	Design flow amps	Max amps	Discharge size and material ¹	Length in (mm)	Min. liquid level in (mm) ²	Weight lb (kg) ³	Rated cycles per day
PF100511 ⁹	10 (0.6)	0.50 (0.37)	1	115	120	12.7	12.7	1¼in GFP	23.0 (584)	16 (406)	26 (12)	300
PF100511CV ⁹	10 (0.6)	0.50 (0.37)	1	115	120	12.7	12.7	1¼in GFP	23.0 (584)	16 (406)	26 (12)	300
PF100512 ⁹	10 (0.6)	0.50 (0.37)	1	230	240	6.3	6.3	1¼in GFP	23.0 (584)	16 (406)	26 (12)	300
PF100712 ^{4,5,9}	10 (0.6)	0.75 (0.56)	1	230	240	8.3	8.3	1¼in GFP	25.9 (658)	17 (432)	30 (14)	300
PF101012 ^{5,6,9}	10 (0.6)	1.00 (0.75)	1	230	240	9.6	9.6	1¼in GFP	27.9 (709)	18 (457)	33 (15)	100
PF200511 ⁹	20 (1.3)	0.50 (0.37)	1	115	120	12.3	12.5	1¼in GFP	22.3 (566)	18 (457)	25 (11)	300
PF200512 ⁹	20 (1.3)	0.50 (0.37)	1	230	240	6.4	6.5	1¼in GFP	22.5 (572)	18 (457)	26 (12)	300
PF201012 ^{4,5,9}	20 (1.3)	1.00 (0.75)	1	230	240	10.5	10.5	1¼in GFP	28.4 (721)	20 (508)	33 (15)	100
PF201512 ^{4,5}	20 (1.3)	1.50 (1.12)	1	230	240	12.4	12.6	1¼in GFP	34.0 (864)	24 (610)	41 (19)	100
PF300511 ⁹	30 (1.9)	0.50 (0.37)	1	115	120	11.8	11.8	1¼in GFP	21.3 (541)	20 (508)	28 (13)	300
PF300512 ⁹	30 (1.9)	0.50 (0.37)	1	230	240	6.2	6.2	1¼in GFP	21.3 (541)	20 (508)	25 (11)	300
PF300712 ⁹	30 (1.9)	0.75 (0.56)	1	230	240	8.5	8.5	1¼in GFP	24.8 (630)	21 (533)	29 (13)	300
PF301012 ^{4,9}	30 (1.9)	1.00 (0.75)	1	230	240	10.4	10.4	1¼in GFP	27.0 (686)	22 (559)	32 (15)	100
PF301512 ^{4,5}	30 (1.9)	1.50 (1.12)	1	230	240	12.6	12.6	1¼in GFP	32.8 (833)	24 (610)	40 (18)	100
PF302012 ^{5,6,7}	30 (1.9)	2.00 (1.49)	1	230	240	11.0	11.0	1¼in SS	35.5 (902)	26 (660)	44 (20)	100
PF303012 ^{5,6,7,8}	30 (1.9)	3.00 (2.23)	1	230	240	16.8	16.8	1¼in SS	44.5 (1130)	33 (838)	54 (24)	100
PF305012 ^{5,6,7,8}	30 (1.9)	5.00 (3.73)	1	230	240	25.6	25.8	1¼in SS	66.5 (1689)	53 (1346)	82 (37)	100
PF500511 ⁹	50 (3.2)	0.50 (0.37)	1	115	120	12.1	12.1	2in SS	21 (533)	24 (610)	27 (12)	300
PF500512 ⁹	50 (3.2)	0.50 (0.37)	1	230	240	6.2	6.2	2in SS	21 (533)	24 (610)	27 (12)	300
PF500712 ⁹	50 (3.2)	0.75 (0.56)	1	230	240	8.5	8.5	2in SS	24.8 (630)	25 (635)	31 (14)	300
PF501012 ⁹	50 (3.2)	1.00 (0.75)	1	230	240	10.1	10.1	2in SS	28.1 (714)	26 (660)	35 (16)	100
PF501512 ⁴	50 (3.2)	1.50 (1.12)	1	230	240	12.5	12.6	2in SS	34.1 (866)	30 (762)	41 (19)	100
PF503012 ^{4,5,7,8}	50 (3.2)	3.00 (2.23)	1	230	240	17.7	17.7	2in SS	52.0 (1321)	37 (940)	55 (25)	100
PF505012 ^{5,6,7,8}	50 (3.2)	5.00 (3.73)	1	230	240	26.2	26.4	2in SS	77.0 (1956)	55 (1397)	64 (29)	100
PF751012 ⁹	75 (4.7)	1.00 (0.75)	1	230	240	9.9	10.0	2in SS	27.0 (686)	27 (686)	34 (15)	100
PF751512	75 (4.7)	1.50 (1.12)	1	230	240	12.1	12.3	2in SS	33.4 (848)	30 (762)	44 (20)	100

1. GFP = glass-filled polypropylene; SS = stainless steel. The 1 1/4in NPT GFP discharge is 2 7/8in octagonal across flats; the 1 1/4in NPT SS discharge is 2 1/8in octagonal across flats; and the 2in NPT SS discharge is 2 7/8in hexagonal across flats. 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 hose and valve assemblies to metric-sized piping.

2. Minimum liquid level is for single pumps when installed in an Orenco Biotube Pump Vault or Universal Flow Inducer. In other applications, minimum liquid level should be top of pump. Consult Orenco for more information.

3. Weight includes carton and 10ft (3m) cord.

4. High-pressure discharge assembly required.

5. Do not use cam-lock option (Q) on discharge assembly.

6. Custom discharge assembly required for these pumps. Contact Orenco.

7. Capacitor pack (sold separately or installed in a custom control panel) required for this pump. Contact Orenco.

8. Torque locks are available for all pumps, and they are supplied with 3hp (2.23kW) and 5hp (3.73kW) pumps.

9. ClickTight™ compatible.

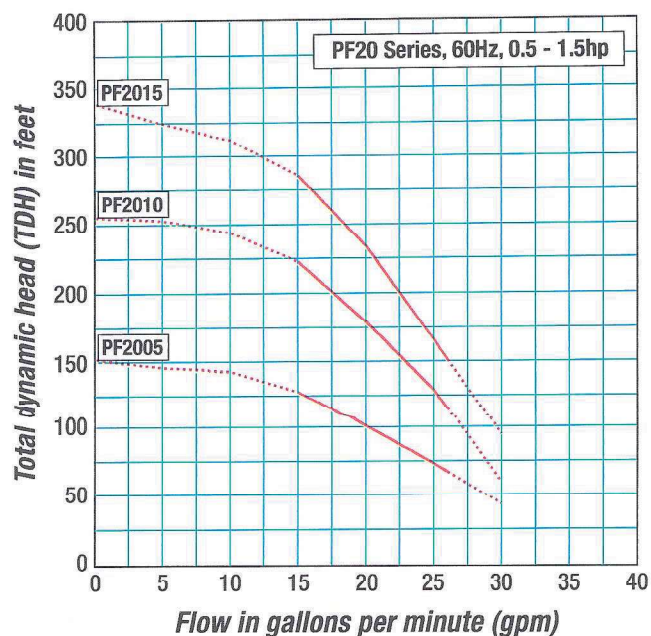
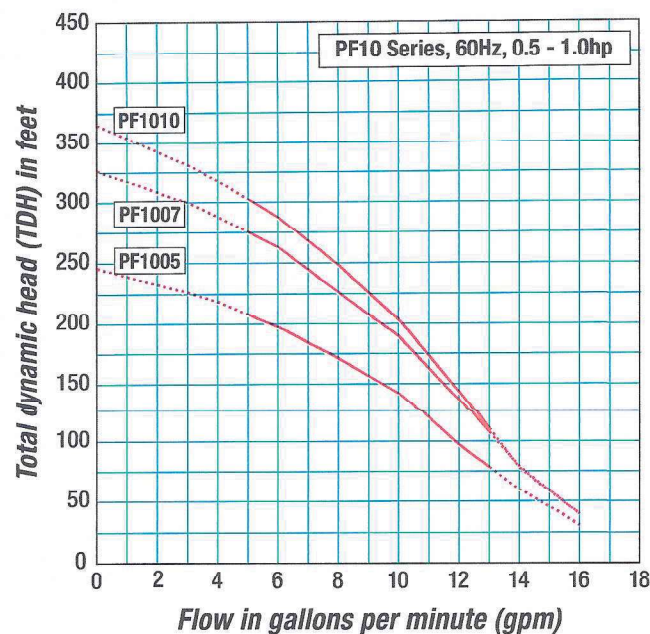
Materials of Construction

Discharge	Glass-filled polypropylene or stainless steel
Discharge bearing	Engineered thermoplastic (PEEK)
Diffusers	Glass-filled PPO (SABIC's NORYL™ GFN3 resin)
Impellers	Celanese's Celcon® acetal copolymer on 10, 20, and 30gpm models; 50gpm impellers are NORYL GFN3 resin
Intake screen	Polypropylene
Suction connection	Stainless steel
Drive shaft	7/16in hexagonal stainless steel, 300 series
Coupling	Sintered stainless steel, 300 series
Shell	Stainless steel, 300 series
Motor	Franklin Electric motor exterior constructed of stainless steel. Motor filled with deionized water and propylene glycol for constant lubrication. Hermetically sealed motor housing ensures moisture-free windings. All thrust absorbed by Kingsbury-type thrust bearing. Rated for continuous duty.

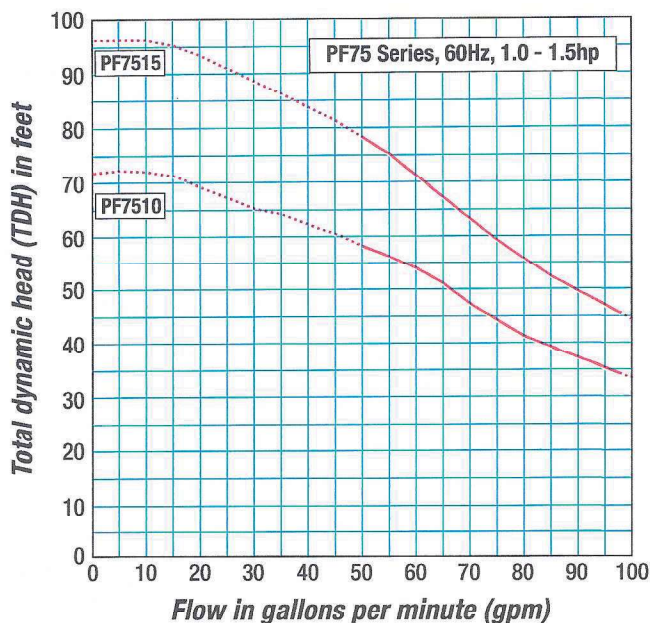
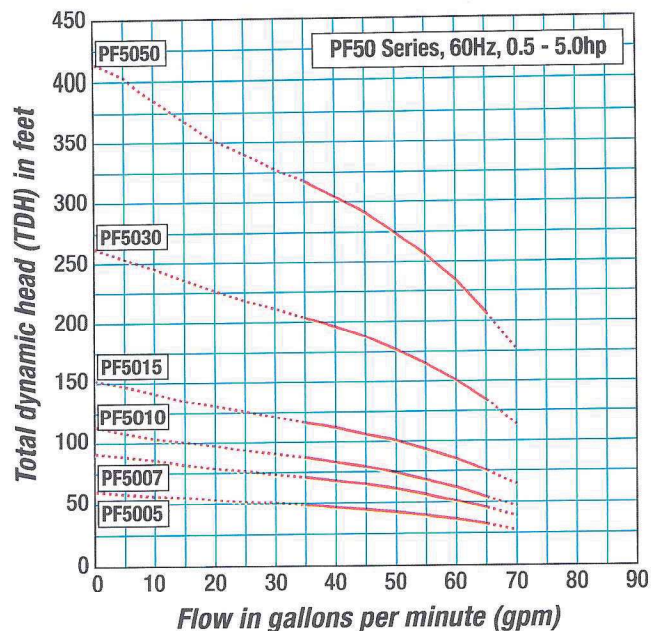
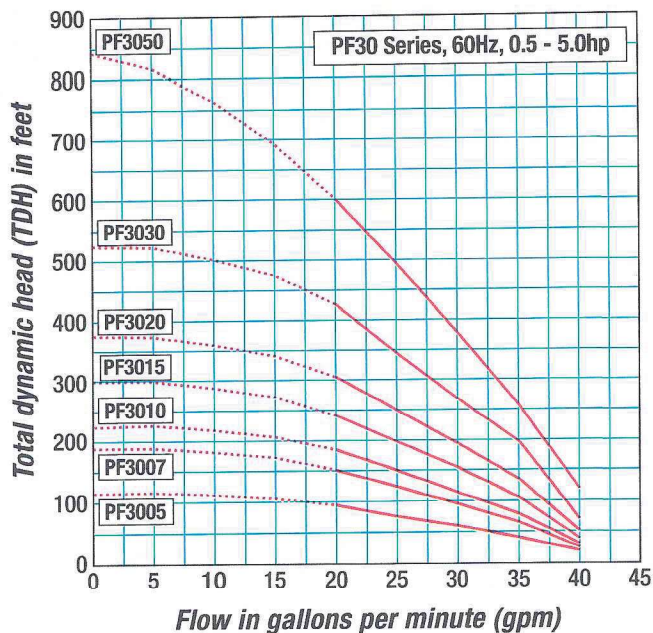
Using a Pump Curve

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. These graphs use solid lines to show the optimal pump operation range. Dashed lines indicate flow rates outside of the optimal range for each pump. For the most accurate pump specifications, use Orenco's PumpSelect™ software.

Pump Curves



Pump Curves, cont.



Biotube® ProPak™ 60Hz Pump Package

Applications

The Biotube ProPak Pump Package is designed to filter and pump effluent from a one- or two-compartment septic tank or pump tank to gravity or pressurized dispersal.

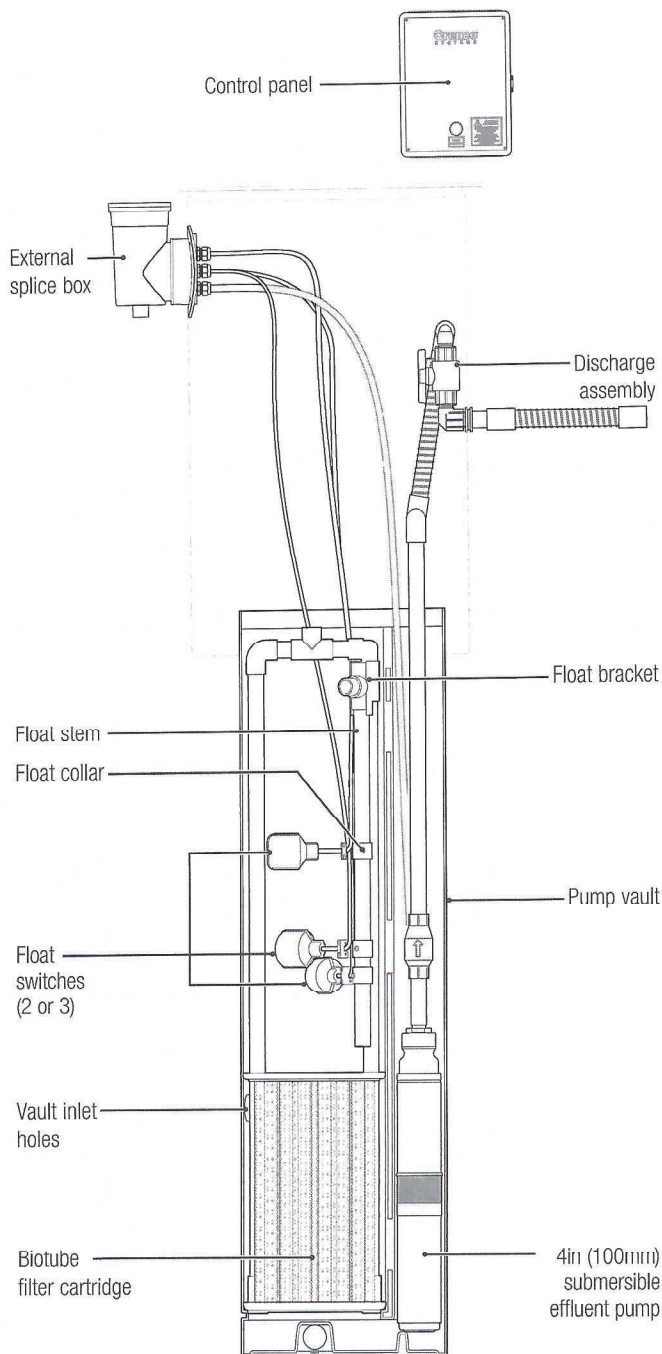
Packages for on-demand dosing or timed dosing at 10, 20, 30, and 50gpm (0.6, 1.3, 1.9, and 3.2L/sec) and 50Hz are available.

General

Orenco's Biotube ProPak Pump Package makes it simple to select and install the correct pump and controls package. Its patented Biotube pump vault technology eliminates the need for separate dosing tanks. The pump vault also allows removal of the effluent filter for cleaning with no need to remove the pump vault or pump, which simplifies servicing.

For more information on specific ProPak components and options, see the following Orenco technical documents:

- *S-Series Simplex Control Panels* (NTD-CP-S-1)
- *MVP Simplex Control Panels* (NTD-CP-MVP-1)
- *External Splice Box* (NTD-SBEX-1)
- *Splice Boxes* (NTD-SB-SB-1)
- *Discharge Assemblies* (NTD-HV-HV-1)
- *HDA Discharge Assemblies* (NTD-HDA-1)
- *PF-Series Submersible Effluent Pumps: 1-Phase, 60-Hz, 4-inch (100-mm)* (NTD-PU-PF-1)
- *PVA-Series 4-in. (100-mm) Submersible Effluent Pumps* (NTD-PU-PVA-1)
- *Universal Biotube Pump Vaults* (NTD-PVU-1)
- *PVP-Series Biotube Pump Vaults* (NTD-PVU-3)
- *PV-Series Biotube Pump Vaults* (NTD-PVU-2)



Biotube ProPak 60Hz Pump Package

Product Code Diagram
BPP - - - - - -
Discharge assembly; details:

SD1 = HV100BCFCX; field-cut, 1in PVC, ball valve, check valve, flow control, 10gpm pumps only
 SD2 = HV100BCX; field-cut, 1in PVC, ball valve, check valve, 10 or 20gpm pumps
 SD3 = HV125BCX; field-cut, 1.25in PVC, ball valve, check valve, 30gpm pumps
 SD4 = HV200BCX; field-cut, 2in PVC, ball valve, check valve, 50gpm pumps
 CW1 = HV100BCFCX + HVCW100-KIT; field-set, 1in PVC, ball valve, check valve, flow control, 10gpm pumps only
 CW2 = HV100BCX + HVCW100-KIT; field-set, 1in PVC, ball valve, check valve, 10 or 20gpm pumps
 CW3 = HV125BCX + HVCW125-KIT; field-set, 1.25in PVC, ball valve, check valve, 30gpm pumps
 CW4 = HV200BCX + HVCW200-KIT; field-set, 2in PVC, ball valve, check valve, 50gpm pumps
 DB1 = HV100B-DB; field-set, ball valve, drainback, 10 or 20gpm pumps
 DB2 = HV125B-DB; field-set, ball valve, drainback, 30gpm pumps
 DB3 = HV200B-DB; field-set, ball valve, drainback, 50gpm pumps
 HD1 = HDA24125FCASLC-FS; field-set, 1.25in hose, flow control, P01 (PF100511CV) pump only
 HD2 = HDA24125ASLC-FS; field-set, 1.25in hose, P01 (PF100511CV) pump only
 HD3 = HDA24125CFCASLC-FS; field-set, 1.25in hose, check valve, flow control, 10gpm pumps only
 HD4 = HDA24125CASLC-FS; field-set, 1.25in hose, check valve, 10, 20, or 30gpm pumps

Pump vault height, in (mm), for 18in (450mm) diameter filter:

48 = 48 (1219) PVU-Series 60 = 60 (1524) PVP-Series
 57 = 57 (1448) PVU-Series 55 = 55 (1397) PV-Series
 68 = 68 (1727) PVU-Series

Splice box options:

SB = Internal splice box
 SX = External splice box

Float switch & pump cord lengths, ft (m):

10 = 10 (3)
 20 = 20 (6)

Control panel; float switches:

S11 = S1; 3P	M11 = MVP-S1DM; 3P
S12 = S1ETMCT; 3P	M12 = MVP-S1DMHT; 3P
S13 = S1HR; 2P	M13 = MVP-S1DMHTSA; 3P
S14 = S1PTRO; 2BN	M14 = MVP-S1DMHTMTSGR-NC; 3P
S15 = S1PTROETMCT; 2BN	M15 = MVP-S1DM(DEMAND); 3P
S16 = S1RO; 3PN	M21 = MVP-S2DM; 3P
S17 = S1ROETMCT; 3PN	M22 = MVP-S2DMHT; 3P
S18 = S1ROETMCTSA; 3PN	M23 = MVP-S2DMHTSA; 3P
S19 = S1ROMTSGR-NC; 3PN	

Submersible effluent pump model; details:

P01 = PF100511CV; 10gpm (0.6L/sec), 0.50hp (0.37kW), 120V for HD1 and HD2 only	P12 = PF300512; 30gpm (1.9L/sec), 0.50hp (0.37kW), 240V
P02 = PF100511; 10gpm (0.6L/sec), 0.50hp (0.37kW), 120V	P13 = PF300712; 30gpm (1.9L/sec), 0.75hp (0.56kW), 120V
P03 = PF100512; 10gpm (0.6L/sec), 0.50hp (0.37kW), 240V	P14 = PF301012; 30gpm (1.9L/sec), 1.00hp (0.75kW), 240V
P04 = PF100712; 10gpm (0.6L/sec), 0.75hp (0.56kW), 240V	P15 = PF500511; 50gpm (3.2L/sec), 0.50hp (0.37kW), 120V
P05 = PF101012; 10gpm (0.6L/sec), 1.00hp (0.75kW), 240V	P16 = PF500512; 50gpm (3.2L/sec), 0.50hp (0.37kW), 240V
P08 = PF200511; 20gpm (1.3L/sec), 0.50hp (0.37kW), 120V	P17 = PF500712; 50gpm (3.2L/sec), 0.75hp (0.56kW), 240V
P09 = PF200512; 20gpm (1.3L/sec), 0.50hp (0.37kW), 240V	P18 = PF501012; 50gpm (3.2L/sec), 1.00hp (0.75kW), 240V
P10 = PF201012; 20gpm (1.3L/sec), 1.00hp (0.75kW), 240V	P90 = PVA100511; 10gpm (0.6L/sec), 0.50hp (0.37kW), 120V
P11 = PF300511; 30gpm (1.9L/sec), 0.50hp (0.37kW), 120V	P91 = PVA300511; 30gpm (1.9L/sec), 0.50hp (0.37kW), 120V
	P92 = PVA500511; 50gpm (3.2L/sec), 0.50hp (0.37kW), 120V

Biotube® ProPak™



JB Plugger Junction Box Installation Instructions

This junction box provides a convenient location to connect all wiring required for a typical pumping station installation. The junction box employs a receptacle to accept a 120 VAC or 230 VAC piggy-back plug and a pump plug.

The JB Plugger also features an easy-to-use terminal strip which can be used for connecting an alarm system in the junction box.

The JB Plugger package ensures a liquid-tight seal and strain relief for the cable entering the junction box from the pumping station.

JB PLUGGER JUNCTION BOX



- NEMA 4X enclosure rated for outdoor use.
- Hinged cover for convenience.
- Receptacle for pump & pump switch (120V or 230V).
- Custom engineered liquid-tight cord seal.
- Strain relief for pump and float cords provided by cord seal.
- Terminal strip for use with alarm system.
- Separate alarm and pump control circuitry provided by terminal strip.
- Dual safety certification for the United States and Canada.
- Five-year limited warranty.

PREVENTATIVE MAINTENANCE

- Periodically inspect the product. Check that the cable has not become worn or that the housing has not been damaged so as to impair the protection of the product. Replace the product immediately if any damage is found or suspected.
- Periodically check to see that the floats are free to move and operate the pump and alarm.
- Use only SJE Rhombus® replacement parts.

SJE RHOMBUS® FIVE-YEAR LIMITED WARRANTY

Five-Year Limited Warranty. For complete terms and conditions, please visit www.sjerrhombus.com.

NOTICE!

Products returned must be cleaned, sanitized, or decontaminated as necessary prior to shipment to ensure that employees will not be exposed to health hazards in handling said material. All applicable laws and regulations shall apply.

⚠ WARNING**ELECTRICAL SHOCK HAZARD**

Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.

⚠ WARNING**EXPLOSION OR FIRE HAZARD**

Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.

Failure to follow these precautions could result in serious injury or death. Replace product immediately if switch cable becomes damaged or severed. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.

For detailed specifications on this product, or for the complete line of SJE Rhombus® panel, alarm, and switch products, visit our web-site at www.sjerrhombus.com.

INSTALLING THE JB PLUGGER JUNCTION BOX

1. Determine where the junction box will be mounted on the riser. Mount the junction box so the base of the enclosure will be at grade once back-filled as shown in Figure A.

NOTE: Bottom mounting to the 3/4" terminal adapter may be preferred in some instances as shown in Figure B.

2. Access the riser by providing a 2 3/8" access hole through the riser.
3. Place the 6" threaded conduit into the terminal adapter that is already installed in the junction box. Slip one PVC washer over the conduit and slide the conduit through the riser wall.
4. After installation through the riser, slip the 1/2" gasket and the second PVC washer over the conduit. Determine if the threads provided will be adequate to tighten the assembly to the riser. If threading is not adequate, remove the assembly and shorten the conduit until threading is adequate.
NOTE: The 1/2" gasket should compress approximately 1/4" when lock nut is tightened.
5. Repeat steps 3 and 4 until desired length is achieved. With PVC solvent, weld the conduit into the terminal adapter.
6. Mount the 3/4" terminal adapter to the bottom of the junction box with the O-ring and lock nut provided. A 1 1/16" hole should be provided for the adapter.
7. Mount the assembly through the riser as described in steps 3 and 4. Using the 2" lock nut, compress the gasket and riser to secure the junction box.
8. Bring the wiring for the pump power and alarm junction through the 3/4" terminal adapter. Connect the conductors for the pump to the terminal block; connect N (neutral) to position 1, and L1 (line)

to position 2. Connect L2 to position 1 for 230 VAC installations.

NOTE: Overload protection, branch circuit protection and main disconnect provided by others.

Connect the conductors for the alarm circuit to positions 3 and 4.

NOTE: If an alarm system is not used, plug the third open position in the cord seal with the PVC plug provided.

9. Pass the piggy-back plug, pump plug and alarm float cables through the 2" conduit.
10. With the three position cord seal, route the three cables through the seal, leaving approximately 8" of cable to work with. Insert the cord seal into the panel terminal adapter and tighten the hex nut until adequate strain relief is achieved.
11. Gather all ground wires, including grounding conductor on the cord seal, and washer. Route and secure to ground terminal.
12. Connect the conductors from the alarm float switch to positions 3 and 4. Coil remaining cable into the junction box.
13. Seal the 3/4" terminal adapter with a conduit sealing compound.
14. Plug the piggy-back plug and pump plug into the receptacle.
15. Secure the junction box cover using the two preinstalled screws.
16. Turn on power.
17. Check the installation by manually tipping the floats on the pump and then the alarm float.
18. Test the unit periodically to insure proper operation.

Figure A

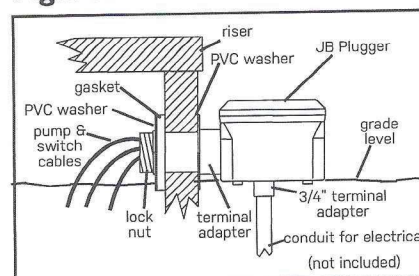
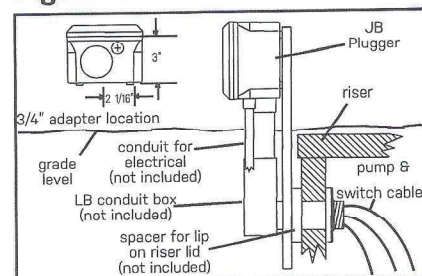


Figure B



SJE RHOMBUS.

+ 1-800-746-6287

techsupport@sjeinc.com

www.sjerrhombus.com

Technical Support Hours: Monday - Friday 7 A.M. to 6 P.M. Central Time

PN 1011983L 05/20

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External Splice Box

Applications

The Orenco® External Splice Box attaches outside the access riser of an underground tank. It's engineered specifically for water and wastewater treatment systems and is especially suited for use in locations prone to high groundwater and other wet conditions. Its separate conduit hubs, large volume, and optional dividers make it useful for maintaining isolation of high- and low-voltage wires, where needed. It has four cord grips, which accommodate power cords for floats and pumps of 0.170 - 0.470 inches (4.3 - 11.9 mm) in diameter. Unused cord grips can be plugged watertight with the supplied cord grip plugs. Each External Splice Box includes a riser adapter designed to provide a watertight connection between the splice box and riser.



*The External Splice Box is molded PVC.
It has a UL Type 6P listing for prolonged submergence.*

General

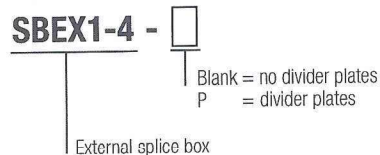
To specify the Orenco External Splice Box for your installation, require the following:

- Watertightness for prolonged submergence per UL listing (Type 6P)
- Attachment external to access riser to allow inspection with no need to open the riser lid
- Volume of 126 in.³ (2065 cm³) for easy wiring access and multiple wiring configurations
- Bottom entry, so conduit or direct-bury cable always remains below minimum burial depth
- UV-resistant rating for outdoor use
- Optional divider plates for isolating high- and low-voltage wires from separate conduits or direct-bury cable
- Included riser adapter to eliminate the need for a grommet

Standard Models

SBEX1-4, SBEX1-4-P

Product Code Diagram

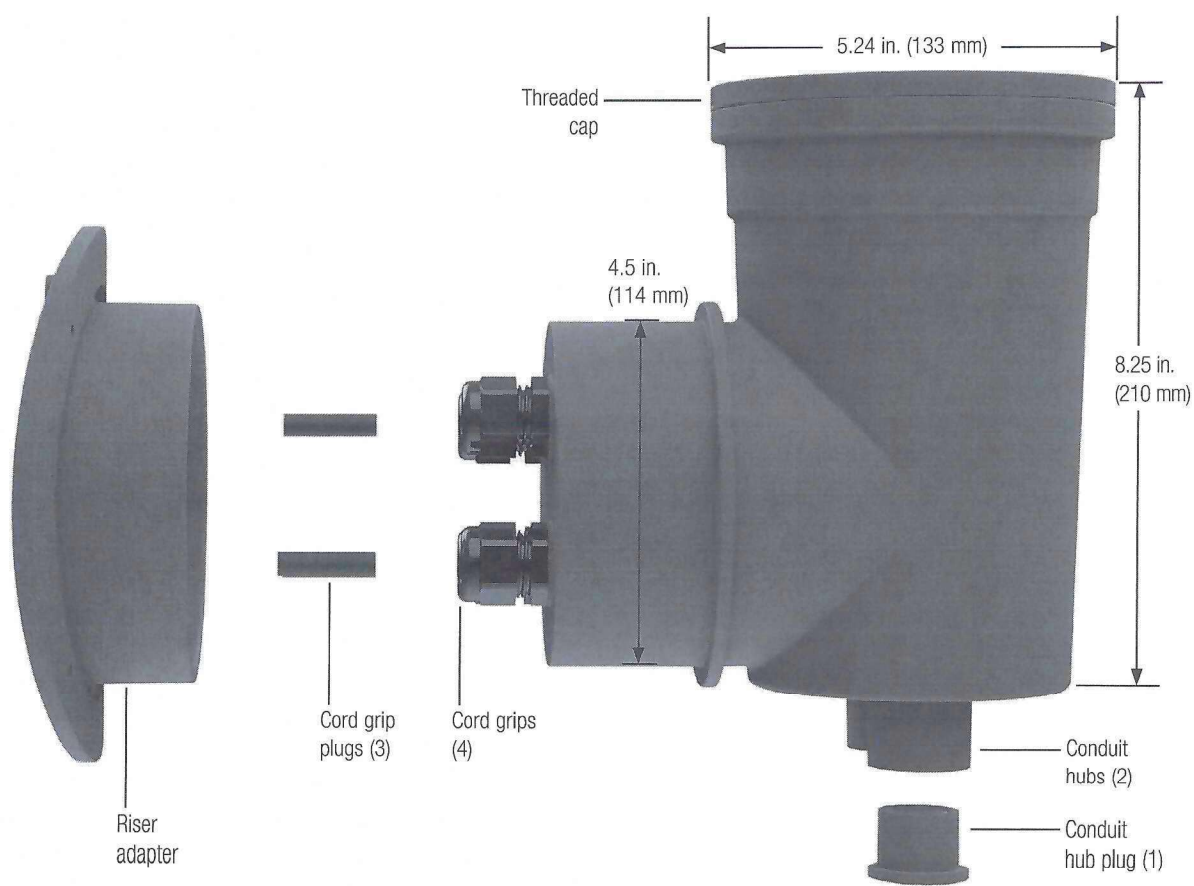


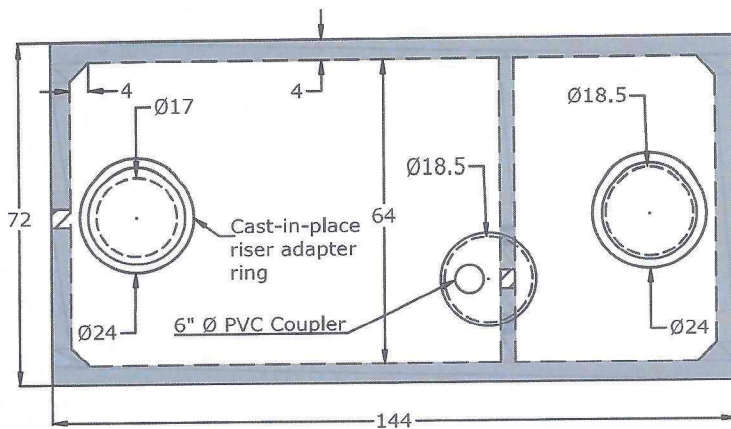
Physical Specifications

Volume	126 in. ³ (2065 cm ³)
Cord grips	4
Cord grip plugs	3
Cord diameters accommodated	0.170-0.470 in. (4.3-11.9 mm)
Conduit hubs	2
Conduit hub plug	1
Conduit sizes accommodated	½ in. (with fitting or bell end) ¾ in. 1 in. (with coupling)
Dia. of hole into riser	5 in. (127 mm); hole-cutting template included

Materials of Construction

Splice box	PVC
Cord grips	Nylon
Cord grip plugs	EPDM rubber
O-rings	Buna rubber
Conduit hub plug	PVC
Riser adapter	ABS



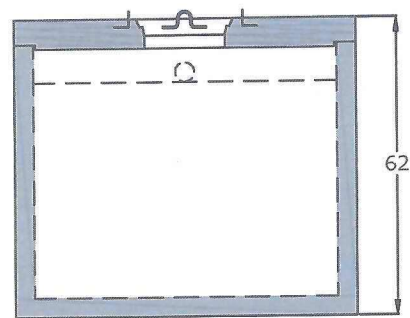


Top View

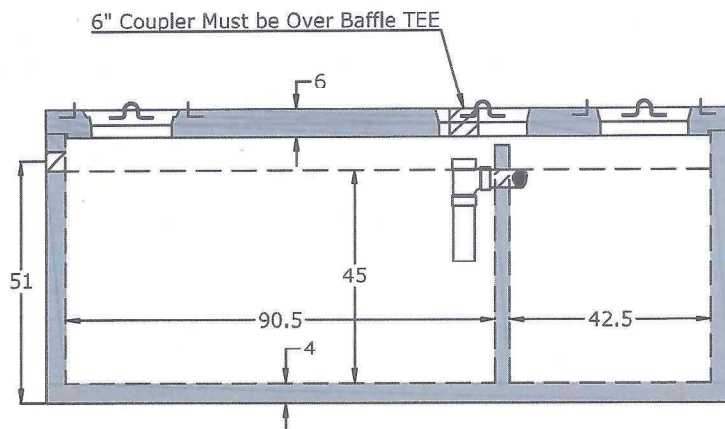
Notes

4" Inlet (Standard)

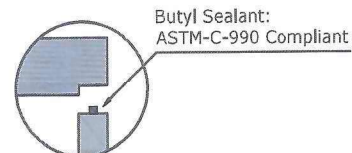
2/3 - 1/3 Compartment Capacity



End View



Side View



Specifications

Concrete: 5,000 psi minimum strength (28 day)

Reinforcing: Primary reinforcement will be rebar.

Risers: Grade rings and manhole frames and covers sold separately.

Sealant: Sealant used in the seam of the tank will meet or exceed ASTM C990.

Pipe Penetrations: Inlet and outlets are fitted with seals that meet or exceed all ASTM C923 specifications.

Partition Wall: The partition wall, if present, is poured monolithically.

Drawing: All measurements are accurate within ± 1 inch.

Tank Warranty: See Terms & Conditions.

Centroid(s): Lid (72, 36), Base (72, 36)

BARGER
PRECAST

Weights

Top - 4,909 lb

Bottom - 11,251 lb

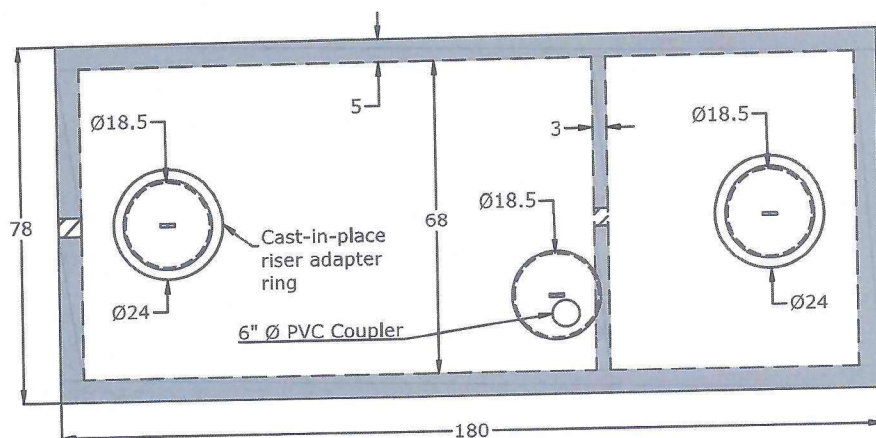
Anti-Float Protection

23" of water

Installation: The tank hole is not to be more than 18 in. longer and wider than the tank. There shall be a minimum of 6" of 3/4" stone bedding. Do not install across path of vehicles or heavy equipment. This tank is designed for one hundred fifty pounds per square foot (150 lb/ft²) uniform loading on the top of the tank with a max backfill cover of 36" and a minimum of 6".

1,500 Gallon Pump Tank

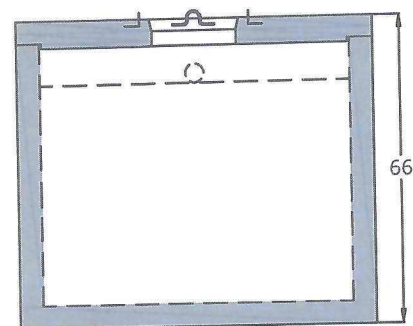
P.O. Box 370 - Kingston TN 37763
Phone 888.882.5860 - BargerPrecast.com



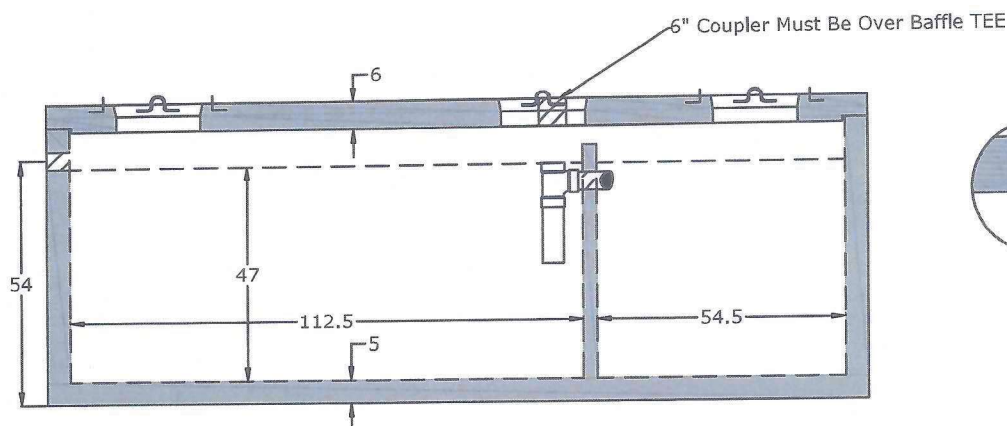
Top View

Notes

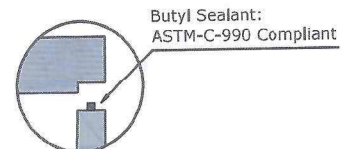
4" Inlet (Standard)
2/3 - 1/3 Compartment Capacity



End View



Side View



Specifications

Concrete: 5,000 psi minimum strength (28 day)
Reinforcing: Primary reinforcement will be rebar.
Risers: Grade rings and manhole frames and covers sold separately.
Sealant: Sealant used in the seam of the tank will meet or exceed ASTM C990.
Pipe Penetrations: Inlet and outlets are fitted with seals that meet or exceed all ASTM C923 specifications.
Partition Wall: The partition wall, if present, is poured monolithically.
Drawing: All measurements are accurate within ± 1 inch.

Tank Warranty: See Terms & Conditions.

Centroid(s): Lid (90, 39), Base (90, 39)

**BARGER
PRECAST**

P.O. Box 370 - Kingston TN 37763
Phone 888.882.5860 - BargerPrecast.com

Weights

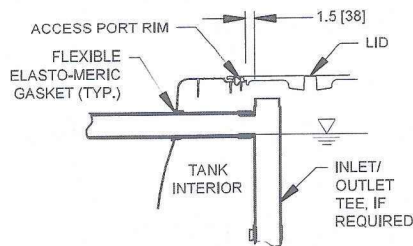
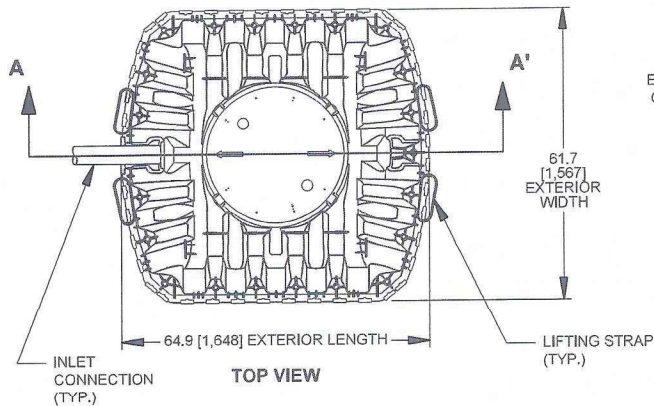
Top - 6,726 lb
Bottom - 17,907 lb

Anti-Float Protection

22" of water

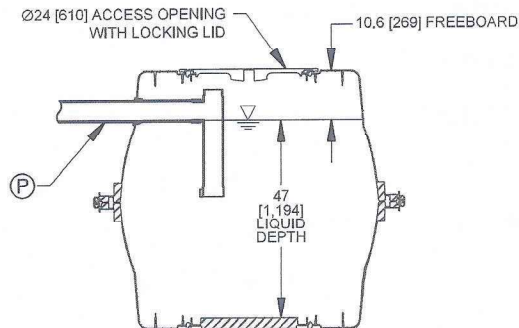
Installation: The tank hole is not to be more than 18 in. longer and wider than the tank. There shall be a minimum of 6" of 3/4" stone bedding. Do not install across path of vehicles or heavy equipment. This tank is designed for one hundred fifty pounds per square foot (150 lb/ft²) uniform loading on the top of the tank with a max backfill cover of 36" and a minimum of 6".

2,100 Gallon Pump Tank

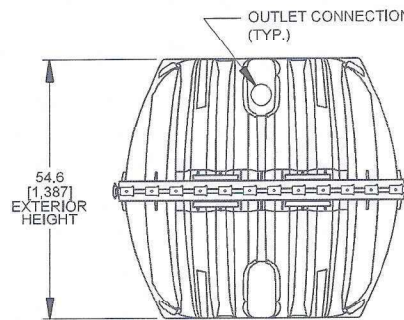


PIPE PENETRATION SECTION DETAIL

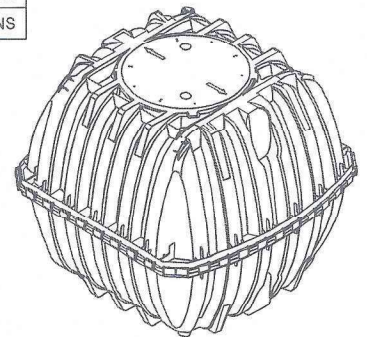
TOTAL CAPACITY	552 GALLONS
WORKING VOLUME	475 GALLONS



SECTION A-A'



END VIEW



ISOMETRIC VIEW

NOTES:

1. ALL DRAWING DIMENSIONS IN INCHES (MILLIMETERS) OR AS NOTED.
2. EXTERIOR OR ACCESS OPENING LID INCLUDES THE FOLLOWING WARNING IN ENGLISH, FRENCH & SPANISH: "DANGER DO NOT ENTER: POISON GASES."
3. TANK MARKINGS WILL INCLUDE: MANUFACTURING NAME, MODEL NUMBER, LIQUID CAPACITY, DATE OF MANUFACTURE CODE, MAXIMUM BURIAL DEPTH, INLET, AND OUTLET.
4. THE TANK MAY BE BACKFILLED WITH SUITABLE NATIVE SOIL. SEE INSTALLATION INSTRUCTIONS FOR GUIDANCE. IF THE NATIVE SOIL DOES NOT MEET THE INSTALLATION INSTRUCTIONS FOR GUIDANCE THEN BACKFILLING WITH SELECT MATERIAL WILL BE REQUIRED.
5. MAXIMUM BURIAL DEPTH IS 48 in [1,219 mm].
6. MINIMUM BURIAL DEPTH IS 6 in [152 mm].
7. TANK IS FOR NON-TRAFFIC APPLICATIONS.
8. AIRSPACE IS 13.9%.
9. INLET TEE MAY NOT BE REQUIRED BY DESIGN.

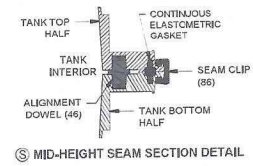
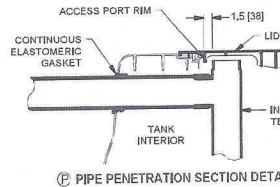
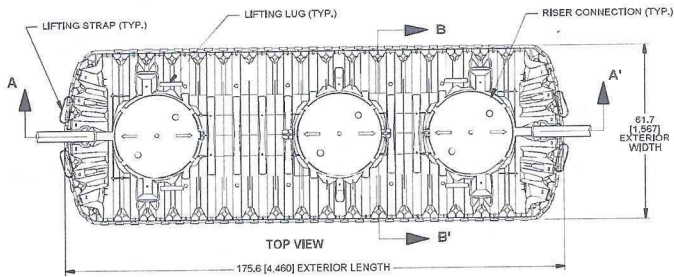


INFILTRATOR WATER TECHNOLOGIES, LLC
4 DUNNCROSS PARK RD., OLD SAYBROOK, CT 06475
WWW.INFILTRATORWATER.COM
PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

IM-Tank

IM-540
PUMP/SIPHON TANK
CONFIGURATION

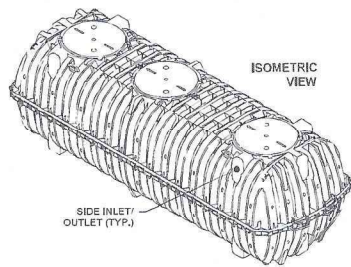
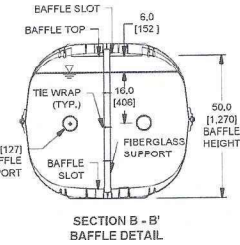
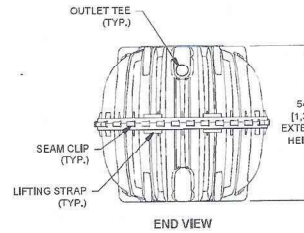
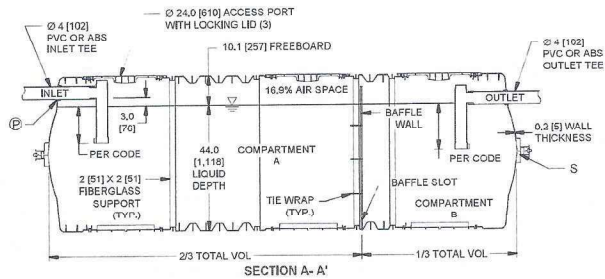
DRAWN BY
P/N
DATE
05/12/2025
SCALE
NTS
SHEET NO.
01 of 01



TANK EXTERIOR	
LENGTH	175.6 (4,460)
WIDTH	61.7 (1,567)
HEIGHT	54.5 (1,384)

LIQUID DEPTH	44.0 (1,118)
INVERT DROP	3.0 (76)
FREEBOARD	10.1 (257)

TOTAL CAPACITY	1,787 GAL (6,765 L)
WORKING VOLUME	1,537 GAL (5,818 L)
COMPARTMENT A VOL.	1,025 GAL (4,561 L)
COMPARTMENT B VOL.	512 GAL (1,935 L)



NOTES:

1. ALL DRAWING DIMENSIONS IN INCHES (MILLIMETERS) OR AS NOTED.
2. EXTERIOR OF ACCESS OPENING (I) INCLUDES THE FOLLOWING WARNING IN ENGLISH, FRENCH & SPANISH: "DANGER DO NOT ENTER: POISON GASES."
3. TANK MARKINGS WILL INCLUDE: MANUFACTURER NAME, MODEL NUMBER, LIQUID CAPACITY, DATE OF MANUFACTURE, MAXIMUM BURIAL DEPTH, INLET, AND OUTLET.
4. MAXIMUM BURIAL DEPTH IS 48 in (1,219 mm).
5. MINIMUM BURIAL DEPTH IS 6 in (152 mm).
6. TANK IS FOR NON-TRAFFIC APPLICATIONS.
7. AIRSPACE IS 16.9%.
8. OUTLET TEE IS COMPATIBLE WITH AN EFFLUENT FILTER.
9. LENGTH TO WIDTH RATIO IS 2.8:1 (175.6-INCH LENGTH / 61.7-INCH WIDTH = 2.8).
10. FREE VENT AREA BETWEEN TOP OF BAFFLE WALL AND BOTTOM OF TOP BAFFLE SLOT IS 138.5 in².
11. BAFFLE WALL THICKNESS IS 0.31 in (8 mm).



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4 BUSINESS PARK RD., OLD SAYBROOK, CT 06475
WWW.INFILTRATORWATER.COM
PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

IM-Tank

IM-1530
2-Compartment Septic/Pump
Tank Configuration

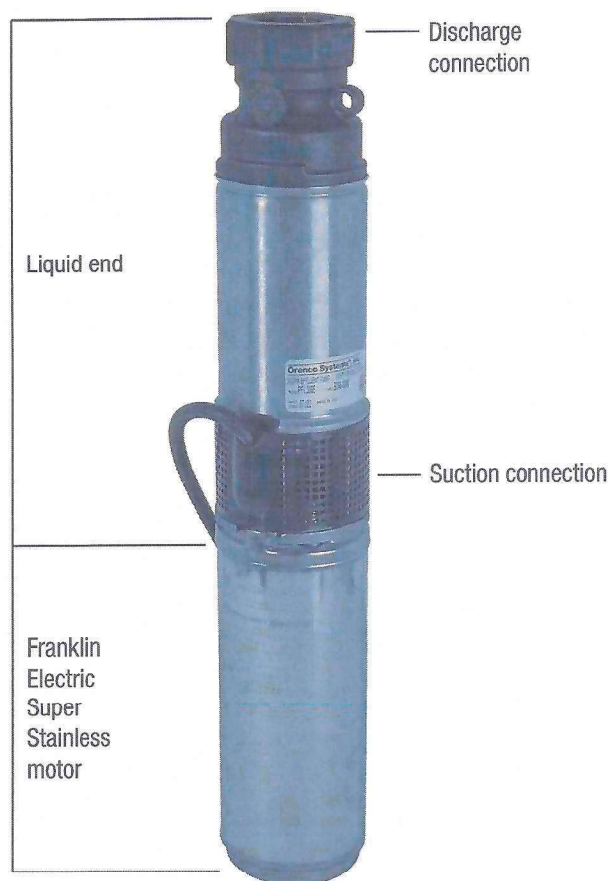
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SHEET NO.
02 of 02

PF-Series 60Hz, 1-Phase Effluent Pumps

Applications

Orenco's PF-Series 60Hz, 1-phase, 4in (100mm) Submersible Effluent Pumps are designed to transport screened effluent with low TSS counts from septic or dosing tanks. These pumps are engineered using lightweight, corrosion-resistant stainless steel and polymers, and are field serviceable and repairable with common tools. They're also CSA and UL certified to US and Canadian safety standards for effluent pumps.

PF-Series pumps are used in a variety of applications, including pressurized drainfields, packed-bed filters, mounds, aerobic units, effluent irrigation, liquid-only (effluent) sewers, wetlands, lagoons, and more. These pumps are designed to be used with a Biotube® pump vault or after a secondary treatment system.



CSA
 C US
 LR80980
 LR2053896



Powered by
Franklin Electric

General

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

- Minimum 24-hour run-dry capability (liquid end) with no decline in pump life or performance; not applicable for 5hp (3.73kW) models
- 1/8in (3mm) bypass orifice to ensure flow recirculation for motor cooling and to prevent air binding
- 1/8in (3mm) mesh intake screen to limit solids
- Liquid-end repair kit availability for lower long-term cost to own
- Franklin Electric TRI-SEAL™ floating impeller design on 10, 20, and 30gpm (0.6, 1.3, and 1.9L/sec) models; floating stack design on 50 and 75gpm (3.2 and 4.7L/sec) models
- Franklin Electric Super Stainless motors are rated for continuous use and frequent cycling, with surge arrestors, hermetically sealed motor housing for moisture-free windings, and Kingsbury-type thrust bearing for thrust absorption
- Thermal overload protection trips at 203-221°F (95-105°C) for 1-phase motors through 1.5hp (1.12kW)
- Type SOOW 600V motor cable (model PF751512 uses 14 AWG, SJ00W, 300V cord)

Standard Models

See [Specifications \(on page 2\)](#) for a list of standard pumps. For a complete list of available pumps, call Orenco.

Product Code Diagram

PF 1 - -

CLK = ClickTight™ compatible

Cord length, ft (m):
 Blank = 10 (3) 20 = 20 (6)
 30 = 30 (9) 50 = 50 (15)
 (20ft cords available only for pumps up to 1 1/2hp)

Check valve:
 Blank = no internal check valve
 CV = internal check valve,
 available only for 10gpm (0.6L/sec), 1/2hp (0.37kW)

Voltage, nameplate:
 1 = 115, only for 1/2hp (0.37kW)
 2 = 230

Frequency:
 1 = 1-phase, 60Hz

Horsepower (kW):
 05 = 1/2 (0.37) 07 = 3/4 (0.56)
 10 = 1 (0.75) 15 = 1 1/2 (1.12)
 20 = 2 (1.50) 30 = 3 (2.24)
 50 = 5 (3.73)

Nominal flow, gpm (L/sec):
 10 = 10 (0.6) 20 = 20 (1.3)
 30 = 30 (1.9) 50 = 50 (3.2)
 75 = 75 (4.7)

Pump, PF-Series

Not all product code configurations may be available as standard products.

First inspection

Location:

Date:

Installer:

Inspector:

TANKS	Yes	No
Tanks must be 10' from house & property line, 5' from driveway		
Tanks shall only be set after house foundation has been started		
Tanks shall be level within 1" in every direction		
Tank manufacture and capacity are visible		
Line from the house must be connected to the tank with a 1% slope with a cleanout between the house and the tank		
Cleanout has screw off cap		
No fittings greater than 45 degrees from house to the tank		
Risers are 1 piece		
4" Tee are installed level inside the riser at the inlet. If two tank set-up another 4" Tee at the outlet in the riser, and 4" Tee at the inlet of the pump tank		
Discharge line/tank that has had to had rock hammered will have 6" under (.5"-.75")		
COMPONENTS INSIDE RISER		
Pump vault, pump, filter, and floats are installed		
Conduit projects no more than 1" inside riser to allow vault and filter removal		
Filter is fully seated and float tree is properly installed		
Floats are aligned, unobstructed and have 3" tether from float collars		
Floats and pump have enough extra cable to allow replacement		
Extra cables are neatly bundled and secured with tie		
Pump discharge pipes are properly installed and unions are hand tight		
Components visually are in good shape free of damage		
Holes drilled in riser are proper size and are watertight seal around holes		
Risers are screwed down		
Risers are installed with watertight adhesive evenly sealing to the tank		
ELECTRICAL AND CONTROL PANEL		
Schedule 40 1" conduit used for underground at least 18" deep		
Schedule 80 1" conduit used for all above ground conduit		
Junction box is secure OUTSIDE of riser		
Connections are properly made and tightened		
Control panel securely attached to the house		

First inspection

Location:

Date:

Installer:

Inspector:

Control panel visually in good shape free of damage		
ALL conduit comes into the panel at the bottom		
Wiring inside panel shall be clean and orderly		
SERVICE LINE AND VAVLE BOX		
Service line installed		
All pipe joints are primed and glued (no blue glue)		
Service line at least 18" below final grade		
Discharge line at least 1.25" or larger		
Discharge line will be sleeved if it goes under the driveway in 4" PVC schedule 80		

COMMENTS:

X

INSTALLER SIGNATURE

X

INSPECTOR SIGNATURE

Final inspection

Date:

Location:

Installer:

Inspector:

TANKS	Yes	No
Contractor filled tank with water 2" into risers 24 hours before final inspection to insure water tight seals for tanks and risers		
Tanks are completely backfilled and covered to grade		
Ground around tanks show no sign of settling		
Tank if free is debris		
TANK INLET AND SERVICE OUTFALL LINE		
Gravity line from the house is fully covered		
Cleanout is at grade and cap screws off		
Inlet access cover is installed properly		
RISERS AND COVERS		
Riser is properly attached and watertight		
Riser is free of damage		
Ground is 1"-3" below riser lids		
Gasket on lid is free of damage		
Lids are secure and bolted down with self-tapping screws that are proper size		
COMPONENTS INSIDE RISER		
All components are properly in place and complete		
All components are not damaged		
ELECTRICAL AND CONTROL PANEL		
All wires are properly installed with excess cable and wire		
Cables are not pinched or damaged going into the junction box		
Gasket on junction box lid are present and in good shape		
Cables are properly installed to correct terminals		
Ground wire is properly installed from pump		
All wires are tight in the panel		
All wires are landed (not spliced)		
Panel is not damaged		
Main power supply's are hooked up in the panel with power present		
Final electrical inspection has been performed on the house and panel with electrical inspection sticker on the panel		
Visual inspection of all components looks to be in good shape		

Final inspection

Location:

Date:

Installer:

Inspector:

Installer:	Inspector:
Conduits are covered and not broken	
Proper adapters used for conduit coming into the panel	
SERVICE LINE AND VALVE BOX	
Valve box is set over ball valve and check valve	
Ball valves operate smoothly by hand	
Valves are visible in the box	
Tracer wire is present in box	
Service line is covered	
Service line ditch does not show any reason for leaks	
SYSTEM FUNCTION	
Tipping the top float up activates the high-level verbal alarm and red-light indicator	
Tipping the top float down causes the verbal alarm to go off and the red light goes off	
Tipping the middle float up causes the pump to turn on	
Tipping the bottom float down causes the pump to turn off	
Turning the 3-position switch to off turns the pump off	
Turning the 3-position switch to manual turns the pump on	
No leaks on the service line	
After all test is complete, the panel is left on and the 3-position switch is left in auto	

COMMENTS:

[illegible]

Final inspection

Location:
Installer:

Inspector:

Date:

X

INSTALLER SIGNATURE

X

INSPECTOR SIGNATURE