

POLYLOK™ Inc.

Innovations in Precast, Drainage
& Wastewater Products



Zabel®
A Division of Polylok Inc.



**POLYLOK / ZABEL
ENGINEERED PRODUCTS BROCHURE**



SUMP / EFFLUENT PUMPS ARE SINGLE PHASE WITH PIGGYBACK FLOAT SWITCH

Part Number	HP	Voltage	Max. Flow	Max. Head	Solids Handling	Cord Length	Discharge
PL-CPSE3A	1/3	115	44	20'	1/2"	20ft.	1½" NPT



EFFLUENT PUMPS ARE SINGLE PHASE WITH PIGGYBACK FLOAT SWITCH

Part Number	HP	Voltage	Max. Flow	Max. Head	Solids Handling	Cord Length	Discharge
PL-CPE4A-12	4/10	115 or 230	56	38'	3/4"	20ft.	2" NPT
PL-CPE5A-12	1/2	115 or 230	64	48'	3/4"	20ft.	2" NPT
PL-CPEH5A12	1/2	115 or 230	55	64'	3/4"	20ft.	2" NPT
PL-CPSTEP512A	1/2	115 or 230	82	85'	3/4"	20ft.	2" NPT
PL-CPSTEP1022A	1	230	90	115'	3/4"	20ft.	2" NPT
PL-CPSTEP1522A	1½	230	110	108'	3/4"	20ft.	2" NPT
PL-CPSTEP2022A	2	230	120	122'	3/4"	20ft.	2" NPT



HIGH HEAD (HH) TURBINE EFFLUENT PUMPS - MANUAL OPERATION UNITS ARE SINGLE PHASE

Part Number	HP	Voltage	Max. Flow	Max. Head	Solids Handling	Cord Length	Discharge
PL-TE-10	1/2	115	17	260'	Filtered Effluent	10ft.	1¼" NPT
PL-TE-20	1/2	115	27	160'	Filtered Effluent	10ft.	1¼" NPT
PL-TE-30	1/2	115	35	110'	Filtered Effluent	10ft.	1¼" NPT



SEWAGE PUMPS ARE SINGLE PHASE WITH PIGGYBACK FLOAT SWITCH

Part Number	HP	Voltage	Max. Flow	Max. Head	Solids Handling	Cord Length	Discharge
PL-CPW5A-12	1/2	115 or 230	108	25'	2"	20ft.	2" NPT
PL-CPWH5A-12	1/2	115 or 230	94	34'	1½"	20ft.	2" NPT
PL-CPSE512A	1/2	115 or 230	105	40'	2"	20ft.	2" NPT
PL-CPSE1022A	1	230	150	54'	2"	20ft.	2" NPT
PL-CPSE1522A	1½	230	165	69'	2"	20ft.	2" NPT
PL-CPSE2022A	2	230	170	80'	2"	20ft.	2" NPT



GRINDER PUMPS ARE SINGLE PHASE WITH PIGGYBACK FLOAT SWITCH

Part Number	HP	Voltage	Max. Flow	Max. Head	Solids Handling	Cord Length	Discharge
PL-CPG2022DSA	2	230	42	105	Macerate	20ft.	1¼" NPT
PL-CPGH202ADSA	2	230	44	132	Macerate	20ft.	1¼" NPT



AIR PUMPS

CONTAMINATION FREE BLOWING

Polylok's linear diaphragm pumps provide a clean, oil free air source. They are exceptionally quiet in operation, and vibration free. Suitable for continuous duty, they are ideal for applications where reliability is essential.

UNIQUE SILENT RUNNING DESIGN

Designed with a unique vacuum assisted noise reduction system, these pumps operate in virtual silence, as low as 30dB. A range of models are available offering flow rates in steps from 40 - 200 L/M.

EASE OF USE

Housed in portable weather proof compact casing, our air pumps offer simple plug and run operation. Virtually no maintenance is required apart from a simple filter change, which is tool free.

APPLICATION IDEAS

Application ideas include sewage aeration, aquatic oxygenation, spas/whirlpools and water features.

AIR PUMPS		
Part Number	L/M	CFM
ET40	40	1.41
ET60	60	2.11
ET80	80	2.82
ET100	100	3.53
ET120	120	4.23
ET150	150	5.29
ET200	200	7.06

HIGH VENT AIR PUMP ENCLOSURE

Polylok, Inc. has added a new high vent air pump enclosure to our extensive product offerings. Air pumps need sufficient airflow volume and ventilation to avoid a potential pump failure from overheating. The Polylok High Vent Air Pump Enclosure is 24" w x 15" h and utilizes a Polylok Air Vent on a 24" flat cover with mesh air inlets and our Poly Air Vent outlet to dissipate heat and extend the life of the air pumps.

The high vent air pump enclosure can be easily installed at ground level or may be utilized in sub-surface applications with additional risers and vents. The High Vent Air Pump Enclosure is an attractive green color to blend with the surrounding environment and can be used with new or existing septic systems. All basins and covers are tested to withstand heavy use and are UV protected.

FEATURES

- Weather resistant
- Green color blends with environment
- Highest concentration of UV protection
- Fits new or retrofit applications
- Air vent independently tested to 330 CFM
- Additional risers are available to adjust size to fit most applications

PART NUMBER

- 3008-APB





PRE-PACKAGED BASIN ASSEMBLY

Tired of traveling from place to place for components to assemble a pump station? You don't have to! Polylok offers a pre-packaged basin assembly. This all-inclusive unit comes ready to assemble. It is made of high-density polyethylene and is lightweight, compact and ready to go.

Installation is easy! All you need to do is glue three pieces of PVC and connect the inlet and outlet pipes, provide power and you're ready to go. The design allows you to add the Polylok adapter ring so you can add up to 24" of Polylok risers to reach your desired height. The pre-packaged basin assembly is easy to access and easy to disconnect for future servicing.

INCLUDED COMPONENTS

- 24" x 40" basin
- 24" heavy duty cover
- Effluent pump (.4HP) with a piggyback float for automatic on/off operation
- Indoor/outdoor audible and visual alarm with float
- Internal piping system (2" PVC piping and a gate, check and union all in one valve assembly)
- Three grommets:
 - One 4" inlet
 - One 2" discharge
 - One 1½" for electrical
- Junction box with 3 watertight connectors

PART NUMBER

- PL-PS40

STEP SYTEM

The Polylok STEP system is designed for septic and effluent tank pumping. It can be used in an advanced wastewater treatment system or in a STEP collection system. The STEP system has a unique structural design to ensure long life and performance.

FEATURES

- The filter and float tree are designed to allow removal for cleaning without removal of the pump or housing
- Standard models are available in 49" or 57" Simplex and 49" or 57" Duplex pumping configurations

INCLUDED COMPONENTS

- Molded LDPE housing
- Polypropylene and PVC filter
- SCH 40 PVC discharge kit
- SCH 80 PVC support pipes
- Float level controls
- Submersible high head effluent pump
- Control panel

PART NUMBERS

- PL-STEP49 Basin
- PL-STEP49 System
- PL-STEP57 Basin
- PL-STEP57 System





PL-UV1 UV DISINFECTION UNIT

Your complete solution to meet even the most stringent environmental permit requirements, the PL-UV1 UV Disinfection Unit reduces bacteria levels from secondary effluent to achieve strict water quality standards. The PL-UV1 is unmatched for onsite and decentralized treatment applications, and constructed to provide reliable disinfection and superior operational life.

APPLICATIONS

UV disinfection is routinely used in ecologically sensitive areas where residuals from chemical disinfection might possibly create problems in the receiving environment. Harmful pathogens and other contaminants, including some that are resistant to chemical disinfection, are rendered completely harmless by the reliable performance of the PL-UV1 UV Disinfection Unit.

FEATURES

- Dual pass design
- Weatherproof electrical components
- Long-life UV bulb
- Easy to install
- No chemical residual or harmful by-products
- Low electrical usage
- Inexpensive to install and operate

FLOW RATES

100 GPD through 8,640 GPD
(Gravity flow only)

REQUIRED INFLUENT CHARACTERISTICS

100 GPD - 4,320 GPD (3 GPM)
with a 30 mg/L BOD and 30 mg/L SS
4,321 GPD - 8,640 GPD (6 GPM)
with a 10 mg/L BOD and 10 mg/l SS

UV DOSAGE

Greater than 40,000 microwatt-sec
per square cm at 254 nanometers

TRANSMISSIVITY

65%

PART NUMBER

- PL-UV1



HIGH PRESSURE FILTER

Polylok's high pressure filter is designed for difficult drainage environments where spreading effluent out is needed to avoid clogging the media. This filter will act as a second level of filtration and will keep orifice lines clean.

FEATURES

- Housing can be mounted directly onto the discharge end of the pump. No extra plumbing is necessary.
- Slip (glued) ports
- Filters available in heavy duty stainless steel or reinforced plastic
- Twist & Lok cover provides both watertightness and easy access for filter maintenance
- Extension handle is available for deep installations
- 600 micron sock included with 3014-PFP plastic filter

PART NUMBERS

- 3014-PF (Stainless steel filter)
- 3014-PFP (Plastic filter with sock)
- 3014-SOCK (600 micron sock)



Sump / Ejector Pump

Can be installed with any Polylok, Zabel or Best Filter



CUSTOM BASINS FOR FILTERS & PUMPS

No other company offers the same flexibility and variety of components as Polylok. We are able to build to your **CUSTOM** engineered specifications. You select your desired height, pump and/or filter size. (Not recommend for deep installations)

FEATURES

- Made of high density, non-corrosive polyethylene plastic (HDPE) with the highest UV protection available
- Accepts all 2", 3", 4", SDR 35, SCH 40 & corrugated pipe
- Includes 2 grommets for filter applications or 3 grommets for pump applications
- Watertight and airtight
- All riser basins, risers and covers include watertight gaskets
- Available in 38", 44", 50", 56" or 62" heights and 24" width
- Residential, commercial and pressure filters available
- Pumps or filters are additional
- Comes standard with a 24" domed cover
- Optional heavy duty and flat covers are also available

SMARTFILTER® ALARM PANEL & SWITCH

The Polylok filter alarm panel and switch provides a visual and audible notification of impending filter and tank servicing. Our patented SmartFilter® control switch attaches to most Polylok filters and all Zabel and Best filters. The filter alarm switch activates when the filter cartridge is near capacity from solids that have built up through the filtering process.

PART NUMBERS

- 3014A (Alarm Only)
- 3014AB (Alarm with 15' Switch)
- 3014B (Switch Only with 15' Cord)



LOW PROFILE EXTERNAL FILTER BASIN

Polylok's Low Profile External Filter Basin is ideal for those situations where space limitations are a factor. The filter/basin combination uses the Best Technology GF-10 filter with a 2,500 GPD capacity, making it suitable for a wide range of commercial applications. The Best GF-10 filter's multiple filtration combinations make this external basin / filter unit suitable for all septic tanks, grease traps or dog kennel applications.

PART NUMBERS

- 3008-LPFB8 (1/8" filtration)
- 3008-LPFB16 (1/16" filtration)
- 3008-LPFB32 (1/32" filtration)



TANK ALARMS & ACCESSORIES

Polylok has pump alarms, controls and accessories with the latest technology to deliver energy efficient, cost-effective products for a wide variety of residential, commercial, municipal, industrial and agricultural applications. We have control solutions to fit your needs, whether it's a simple float switch or septic alarm system to control panels using embedded circuit board technology for advanced programming and monitoring of your system.

CATEGORIES

- Indoor/Outdoor Tank Alarms
- Indoor Tank Alarms
- Time Dose
- Float Switches
- Simplex Control Panels
- Duplex Control Panels
- Junction Boxes