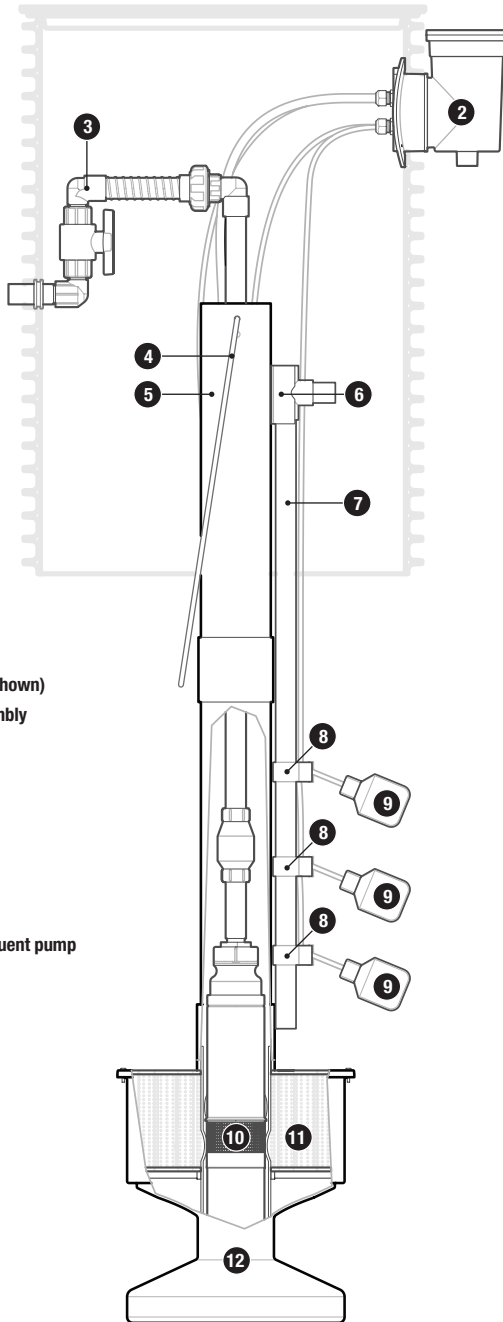


Biotube® EasyPak™ 60Hz Pump Packages



1. Control panel
2. Splice box (Orenco® SBEX shown)
3. Discharge assembly
4. Lifting strap
5. Flow inducer
6. Float bracket
7. Float stem
8. Float collar
9. Float switch
10. 4in (100mm) submersible effluent pump
11. Filter cartridge
12. Pump vault

Biotube EasyPak (cutaway view)

Applications

Orenco's Biotube EasyPak Pump Packages are designed to filter and pump effluent from a pump tank to gravity or pressurized dispersal. It is well suited for applications requiring large reserve volumes and for pumping from near the bottom of a tank.

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 applications are available.

General

Orenco's patented Biotube EasyPak Pump Packages make it simple to select and install the correct pump and controls package for the pump tank*. The low-profile pump vault is passively self cleaning, to extend maintenance cycle intervals.

This document provides detailed information on the EasyPak pump vault and effluent filter cartridge. For more information on other EasyPak components, see the following Orenco technical data sheets:

- [MVP Simplex Control Panel, NTD-CP-MVP-1](#)
- [S-Series Simplex Control Panels, NTD-CP-S-1](#)
- [External Splice Box, NTD-SBEX-1](#)
- [Internal Splice Boxes, NTD-SB-SB-1](#)
- [Discharge Assemblies, NTD-HV-HV-1](#)
- [Orenco PF-Series 60Hz, 1-Phase Pumps, NTD-PU-PF-1](#)
- [Orenco PVA-Series Pumps, NTD-PU-PVA-1](#)

Materials of Construction

Filter end plates	Polyurethane
Filter tubes	Polyurethane
Flow inducer	PVC
Handles	PVC
Lifting strap	Hollow-braided polypropylene
Vault body	Polyethylene

*US Patents #4,439,323 and #5,492,635 (additional US and international patents pending)

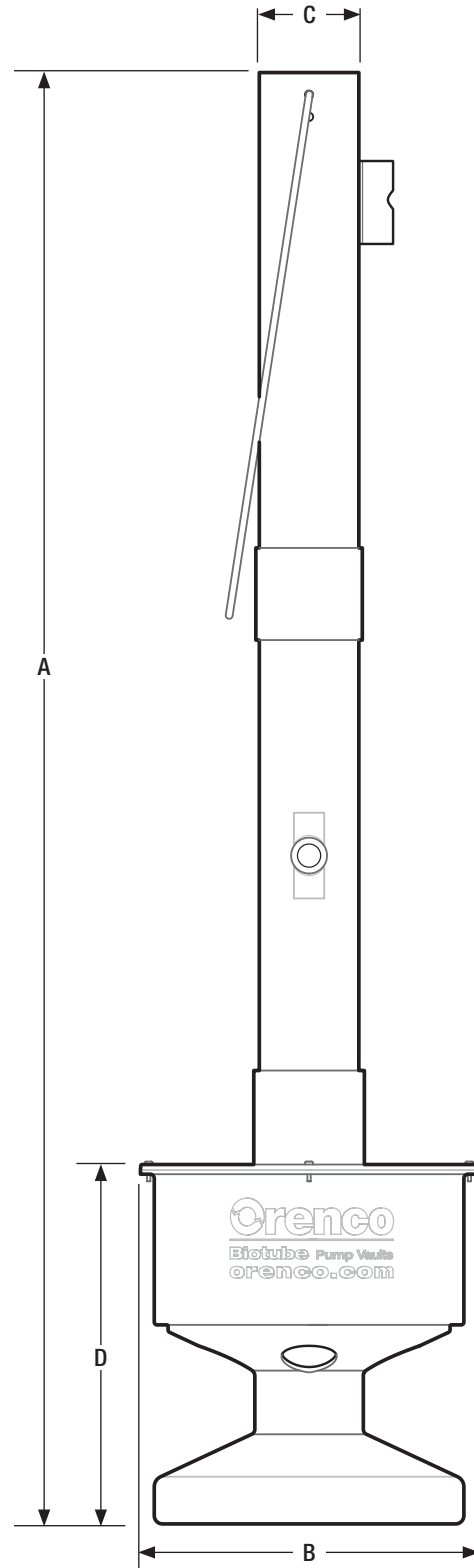
Specifications

Dimensions, in (mm)

A	Overall height	61 (1549)
B	Overall diameter	15.25 (387)
C	Flow inducer diameter, nominal	4 (100)
D	Vault height	15 (381)
	Filter cartridge height	7 (178)
	Filter cartridge width	10.3 (262)

Performance

	Biotube mesh opening, in (mm)	0.125 (3)
	Total filter flow area, ft ² (m ²)	3.16 (0.29)
	Total filter surface area, ft ² (m ²)	10.53 (0.98)



Product Code Diagram

BEP - - - - -

Discharge assembly details:

- SD1 = HV100BCFCX; field-cut, 1in PVC, ball valve, check valve, flow control, 10gpm (0.6L/sec) pumps only
- SD2 = HV100BCX; field-cut, 1in PVC, ball valve, check valve, 10 or 20gpm (0.6L or 1.3L/sec) pumps
- SD3 = HV125BCX; field-cut, 1.25in PVC, ball valve, check valve, 30gpm (1.9L/sec) pumps
- SD4 = HV200BCX; field-cut, 2in PVC, ball valve, check valve, 50gpm (3.2L/sec) pumps
- CW1 = HV100BCFCX + HVCW100-KIT; field-cut, 1in PVC, ball valve, check valve, flow control, 10gpm (0.6L/sec) pumps only
- CW2 = HV100BCX + HVCW100-KIT; field-cut, 1in PVC, ball valve, check valve, 10 or 20gpm (0.6L or 1.3L/sec) pumps
- CW3 = HV125BCX + HVCW125-KIT; field-cut, 1.25in PVC, ball valve, check valve, 30gpm (1.9L/sec) pumps
- CW4 = HV200BCX + HVCW200-KIT; field-cut, 2in PVC, ball valve, check valve, 50gpm (3.2L/sec) pumps
- DB1 = HV100B-DB; field-cut, 1in PVC, ball valve, drainback, 10 or 20gpm (0.6L or 1.3L/sec) pumps
- DB2 = HV125B-DB; field-cut, 1.25in PVC, ball valve, drainback, 30gpm (1.9L/sec) pumps
- DB3 = HV200B-DB; field-cut, 2in PVC, ball valve, drainback, 50gpm (3.2L/sec) pumps

Splice box options:

- SX = External splice box
- SB = Internal 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:

- P08 = PF200511; 20gpm (1.3L/sec), 1/2hp (0.37kW), 120V
- P90 = PVA100511; 10gpm (0.6L/sec), 1/2hp (0.37kW), 120V
- P91 = PVA300511; 30gpm (1.9L/sec), 1/2hp (0.37kW), 120V
- P92 = PVA500511; 50gpm (3.2L/sec), 1/2hp (0.37kW), 120V

Biotube® EasyPak™ pump package