# Biotube® EasyPak™ Pump Package

## Installation and Maintenance Instructions

### Before You Begin

This document covers assembling and installing the Biotube® EasyPak™ Pump Package,* as well as instructions for annual maintenance. For instructions on installing and wiring your splice box, see the Orenco® document Splice Boxes: Installation, Operation, and Maintenance Instructions Model SB_ (EIN-SB-SB-1). For instructions on installing and wiring your control panel, see the Orenco document Panel Installation (EIN-CP-GEN-1). Read and understand all of these instructions before you install your EasyPak kit.

### Installation Instructions

Before starting your installation, make sure that the EasyPak package you have matches your system's needs. Open the EasyPak box and check the contents of the box for compatibility with your system. Make sure you have the correct adapter for your discharge plumbing assembly-to-discharge-line connection. Also check that the pump included with your EasyPak package meets the head and flow requirements for your system.

You'll need to know the float heights specified for your system. If these are not specified on the system plans, contact the system's designer.



Control panel — Splice box — Discharge plumbing assembly (DPA) — Flow inducer — Float assembly — Pump vault — Pump — Biotube® filter cartridge (three total)

**Biotube® EasyPak™ kit components**

#### Step 1: Prep the Vault Assembly

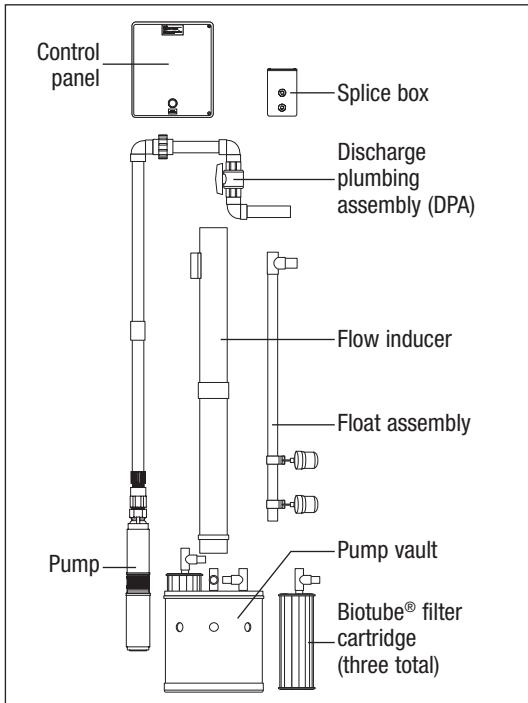**NOTE:** *You will need PVC cement for these steps.*

**Step 1a:** Rotate the cartridge handles on the filter cartridges away from the center hole.

**WARNING:** *DO NOT apply primer to the vault cap. The cap is ABS, and primer will weaken the joint.*

**Step 1b:** Glue the bottom of the flow inducer (the end with the retaining ring) into the center hole of the vault cap.

**Step 1c:** Glue the upper and lower halves of the flow inducer together. Position the upper half so the float assembly, when installed, will not interfere with removal of the filter cartridges.

**Step 1d:** Rotate the cartridge handles to their secured position, facing inwards.
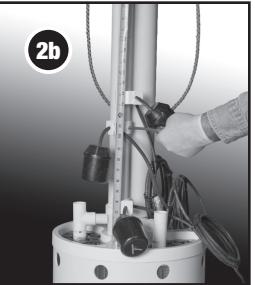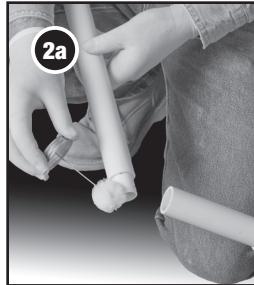
## Step 2: Prep the Float Assembly

**NOTE:** *You will need PVC cement for these steps.*

**Step 2a:** Glue the upper and lower halves of the float assembly.

**Step 2b:** Clip the float assembly into the float bracket on the flow inducer, and adjust the float levels.

## Step 3: Install the Vault Assembly

**CAUTION:** *Do not let the float cords fall into the tank when you install the vault assembly.*

**Step 3a:** Make sure the filter cartridge handles are secured against the flow inducer. Then use the lifting strap to gently lower the vault assembly into the tank. To help sink the vault, run clear water into the vault as you lower it.

**Step 3b:** Coil the float cords and secure them out of the way in the riser.

## Step 4: Prep and Install the Discharge Plumbing Assembly (DPA)

**CAUTION:** *Do not lift the pump by the cord. Doing so can damage the pump.*

**NOTE:** *Be sure to make any adjustments to the DPA (lengthening or shortening, if necessary) before installing the pump/DPA assembly. You will need PVC cement, Teflon® tape or paste, and pipe lubricant for these steps.*
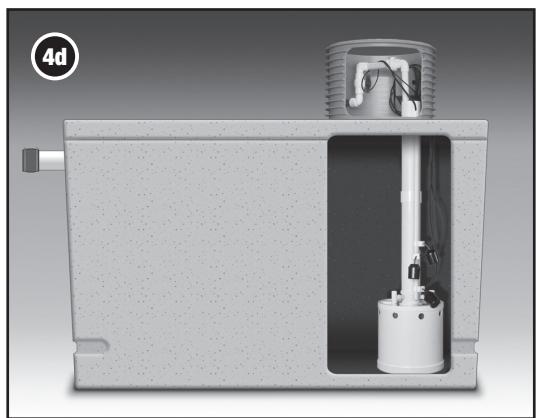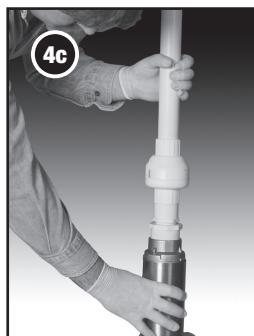
**NOTE:** *In order to assure proper clearance and accessibility, 2" DPAs must exit the access riser at 90° from the splice box when an internal splice box is used.*

**Step 4a:** Glue the straight sections of the DPA together.

**Step 4b:** Apply Teflon paste or tape to the threads on the bottom of the DPA, and screw it into the top of the pump.

**Step 4c:** Connect the DPA pieces together at the union.

**Step 4d:** Lower the pump/DPA assembly into the vault assembly. Coil the pump cord and secure it in the riser. Lubricate the DPA discharge nipple and the riser discharge grommet, and run the nipple through the grommet.
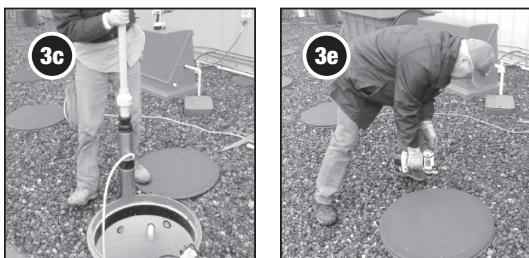
**CAUTION:** *If electrical connections are not immediately made, be sure that the pump and float cords are secured in the riser, not hanging in the tank, to prevent water from wicking up the cords and damaging components.*

## Step 5: Install the Splice Box

For information on installing the splice box, see *Splice Boxes: Installation, Operation, and Maintenance Instructions Model SB_* (EIN-SB-SB-1).*

## Step 6: Install and Wire the Control Panel

For information on installing and wiring the control panel, see *Panel Installation* (EIN-CP-GEN-1).*

\* *These documents are included with the components to which they refer. You can also download them from Orenco's Document Library at www.orenco.com.*

## Maintenance Instructions

The EasyPak™ Pump Package should be inspected whenever the septic tank is pumped or the system is serviced, to make sure it's functioning properly and to clean the Biotube® filter cartridges.

### Step 1: Remove the Float Tree, Pump/DPA, and Vault Assembly

*NOTE: Place components on a waterproof plastic tarp during servicing.*

**Step 1a:** Unbolt the lid from the pump tank and the septic tank. Set the lids and bolts aside.

*WARNING: Failure to turn off power can result in injury and death!*

**Step1b:** Turn off system power at the control panel by flipping the control and pump circuit breakers to the "OFF" position.

*CAUTION: Do not lift the pump by the power cord.*

**Step 1c:** Close the ball valve, and unscrew the union on the DPA. Remove the pump/DPA assembly from the vault.

**Step 1d:** Remove the float assembly from the flow inducer.

**Step 1e:** Remove the vault from the tank by the lifting strap. The vault is heavy. Use proper lifting techniques and equipment when lifting the vault.

### Step 2: Clean the Components and Splice Box

**Step 2a:** Remove the filter cartridges from the vault assembly. Wash the buildup on the cartridges into the septic tank. Wash any buildup on the inside of the vault assembly into the septic tank as well.

*Note: Orenco riser grates (shown) provide a handy surface for cleaning components.*

**Step 2b:** Remove and clean the outer screen on the pump. Inspect the inner screen on the pump, and wash it off if needed. Immediately reinstall the outer screen on the pump when finished.

**Step 2c:** Unfasten the splice box lid and check it for water. Remove any standing water from the splice box with a turkey baster or sponge. Replace the splice box lid and screw it back down.

### Step 3: Reinstall the Vault Assembly, Float Tree, and Pump/DPA

**Step 3a:** Place the filter cartridges back in the vault assembly and secure them; then lower the vault into the tank. To help sink the vault, run clear water into the vault as you lower it to the tank bottom.

**Step 3b:** Reconnect the float tree to the float tree bracket.

**Step 3c:** Lower the pump/DPA assembly into the vault, reconnect the union on the DPA, and open the ball valve on the DPA.

**Step 3d:** Flip the control and pump circuit breakers back to the "ON" position.

**Step 3e:** Bolt down the pump tank lid and septic tank lid when you are finished.

### Step 4: Record Inspection and Maintenance Activity

Record your inspection results and any maintenance activity.

## EasyPak™ Installation/Inspection/Maintenance Form

Record your EasyPak™ installation information, as well as inspection and cleaning results and any other maintenance activity performed on the EasyPak Pump Package.

Date of Installation: _____     EasyPak™ Model: _____

Installation Remarks: _____

| Date of Inspection and Cleaning | Other Maintenance Performed? | Notes |
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