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## ENVIRONMENT ONE PRODUCTS

Thank you for your interest in the **Environment One Corporation** Grinder pump system. It is our pleasure to provide you with the following information about the **Environment/One** Low-pressure sewer system.

### **CAPABILITY**

The **Environment One** low-pressure system was developed to provide a low-cost sewer collection system to homes in remote locations or with high groundwater or ledge restrictions. “**Low-pressure sewers**” can follow hilly terrain in narrow trenches reducing construction cost and disturbance to the landscape. This is important in situations where conventional gravity sewers might otherwise be too destructive or expensive.

Low-pressure sewers can transport wastewater over relatively long distances through small diameter pipes. The progressing cavity, semi-positive displacement pumps can lift to heads of 185 feet with a low horsepower, low speed (1725 rpm) motor. We are able to develop high cutting torque at these low speeds to reduce wastewater solids to a ¼ inch particle size. This system enables the use of small diameter pipelines that are sized on hydraulic needs and not governed by the ability to pass solids. This feature reduces retention time and improves pipe-scouring velocity.

*Rev 2/20/10*

### **HISTORY**

Since 1970, the **Environment/One Corporation** has provided low-pressure sewers, powered by the UL listed progressing cavity grinder pump to over 2,000,000 users each day. F.R. Mahony & Associates, Inc. has been the **Environment/One Corporation’s** New England representative for thirty years.

### **APPLICATIONS**

The **E/One** sewer can provide service to a single home needing one pump, or to several hundred homes and businesses pumping to a common small diameter low-pressure sewer line or to an on-site treatment system. The possibilities are endless.

### **COST TO OPERATE**

The **E/One** sewer powered by the **EXTREME SERIES** grinder pump will be cost effective to install, and since there are no owner maintenance requirements, inexpensive to operate. With a \$0.11 cost per kWh, the energy cost per pump would average \$22.00 a year for a single family home.

### **THIRD PARTY LISTING - WARRANTY**

The **Environment/One**, UL – NSF – CSA listed pump models have a “two year parts & service warranty” and models are available for installation inside a home with a “five year parts & service warranty”

F.R. Mahony & Associates, Inc. provides 24-hour service for emergency service.

### **MODEL CONFIGURATIONS**

**Environment One** products are available in a variety of configurations and Model styles.

**The flagship Model DH071 with separate wet well** is available for a variety of installations and is available in depths of 44 inches to 160 inches.

### **Our most common model is the DH071-93**

Single-family outdoor model is rated for flows up to **700 gpd**. Accessway provides four feet of frost protection above inlet and discharge pipes. Easily installs with conventional drainlayer connection.

**“LEADING THE INDUSTRY WE INVENTED”**



## E/One EXTREME SERIES CONTINUED

- **Model IH091** Indoor single-family home with flows up to **700 gpd**. Easily installs in almost any basement.  
*This model along with all of our indoor models is approved by the Massachusetts Board of State Examiners of Plumbers and Gas Fitters for indoor installations under the 2000 Series designations.*

## HIGHER CAPACITY MODELS

- **Model DH151** Indoor/Outdoor single-family home flows up to **1,500 gpd**.  
**Duplex Pump Stations**
- **Model DH152** Indoor/Outdoor single-family and multi-family home or commercial flows up to **3,000 gpd**.
- **Model DH272** Indoor/Outdoor single-family and multi-family home or commercial flows up to **5,000 gpd**.
- **Model DH502** Indoor/Outdoor single-family and multi-family home or commercial flows up to **6,000 gpd**.

*All of these outdoor models are available in a variety of heights to meet your plumbing needs.*

## WETWELL MODELS

- **Model WH101** Wetwell style pump uses the **Upgrade** pump in a standard HDPE wetwell with lower front-end cost. Available in several size configurations. Simplex HDPE stations or Fiberglass to Duplex Fiberglass stations
- **Model WH231 Squat Tank** Complete station that combines the wetwell grinder pump core with an all-new, rotational-molded polyethylene basin. This tank is designed to minimize the retained volume in the tank to 25 gallons while providing 247 gallons of tank capacity. Rated flows to 850 gpd.

## PUMP CONVERSIONS

**UPGRADE** pump for direct installation in existing wetwell. Upgrade worn out centrifugal pumps with this easy drop-in-ready to connect conversion.

The **UPGRADE** Model makes a perfect retrofit to existing, troublesome pump chambers

## DESIGN ASSISTANT

**Environment One Corporation** offers free design assistance with our exclusive **Design Assistant Software package**. We can help you or your engineer layout your project and help you select the proper pipe size and best route to sewer your project.

## AVOID ON-SITE DESIGN BUILD NIGHTMARES

The **Environment One** system was "Engineered Perfectly" to meet a variety of conditions. No need to design oversized storage tanks with slide rail mounted pumps. **Environment One** systems are designed to meet the day-to-day needs with engineered wet wells and easily removable pump cores. Service does not require a plumber and electrician to remove a pump. With a mean time between service calls of 8 - 10 years **Environment One Corporation** provides the industries most reliable and trouble free grinder pump.

## Be sure to visit our web sites

<http://www.eone.com> and <http://www.frmahony.com> and please contact us at 781-982-9300 with questions about the enclosed information or anytime you believe the **F.R. Mahony** professional staff can be of assistance.

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