



## Environmental Dynamics Inc.

### 美国环境动力公司

5601 Paris Rd., Columbia, MO 65202-9456 USA  
Telephone (573) 474-9456 Facsimile (573) 474-6988

E-mail [edi@wastewater.com](mailto:edi@wastewater.com)

URL [www.wastewater.com](http://www.wastewater.com)

or [www.diffuserexpress.com](http://www.diffuserexpress.com)

## COMMITMENT TO QUALITY AND EXCELLENCE

### 对质量与品质的承诺

Environmental Dynamics Inc. (EDI) is committed to excellence in the manufacture and supply of advanced technology aeration mixing systems for the water and wastewater treatment industry. EDI provides engineered and manufactured solutions for specialized, project-specific needs. In addition, diffuser components, and aeration products are available through the Diffuser Express® Division. EDI engineers equipment and systems for superior long-term performance and maintenance free operation.

EDI developed and instituted an ongoing quality maintenance program for the manufacture and supply of advanced technology aeration mixing systems. This program provides a systematic approach for documenting procedures to minimize, isolate and eliminate unacceptable circumstance, and assures superior product performance.

EDI's quality program includes a review of the ISO and corresponding ANSI/ASQC Certification activities with respect to EDI products and services. Because of the unique nature of EDI equipment and services, an independent internal quality control program incorporating the activities of both EDI and its vendors assure superior performance and low maintenance in EDI's advanced technology aeration systems. Specific areas of EDI's production and support activities targeted for quality management control include: engineering, drafting, purchasing, and manufacturing.

#### **Manufacturing Facilities**

EDI recognizes the need for adequate manufacturing facilities to ensure highest quality systems. EDI owns a 114,000 sq ft corporate facility dedicated to the design and manufacture of quality aeration mixing equipment and systems. This facility is designed to ensure:

- space for inventory of quality components,
- specialized production lines for superior quality control, and

美国环境动力公司（EDI）在水与污水处理的高技术曝气混合系统的生产与供应方面追求卓越的质量与信誉。EDI除了以工程服务与生产来满足各种特殊、具体项目的需要外，还通过其“扩散器快递”部门快速提供扩散器配件和曝气装置。EDI致力于高性能、低维护的污水处理设备与系统。

EDI为高技术曝气混合系统的制造和供应创立了一套完整的质量监控体系。该体系采用严格的步骤以达到减少，孤立，和消除次品，从而保证高产品性能的目的。

EDI质量监控体系包括依据ISO和相关ANSI/ASQC认证来检验EDI产品和服务。由于EDI产品及服务的独特性，EDI创立了一套独立的、适用EDI和其供应商的内部质量监控体系，以确保EDI曝气系统的高性能和低维护。EDI的各个领域，包括：工程、制图、采购、以及生产，都致力于质量管理的控制。

#### **生产设备**

EDI认识到足够的生产设备是确保高质量体系的必要性。EDI购买了114,000平方英尺厂房设备用于曝气混合设备与系统的设计与生产。这些设备能够确保：

- 足够的产品库存空间
- 高质量所需的生产线空间要求

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- space for storage of fabricated products to prevent damage once manufacture is complete.

### **Testing Facilities**

EDI recognizes the need for quality testing of performance and material in its products - EDI now has the world's most advanced testing facility for oxygen transfer and mixing performance of diffused aeration systems including data logging, underwater video and total testing video.

EDI has a quality testing laboratory for components used in EDI Aeration Systems. Testing for material tolerances and dimensions, operating pressures, contact angle for air release and uniformity are all key elements in the EDI quality control program.

EDI also has capability for measurement of field performance of product including "off gas analysis" testing of the product once the product is placed in service.

### **Engineering and Pre-Manufacturing Activities**

Quality control initiatives have been instituted in other areas of the organization, including engineering, drafting, purchasing and production. The streamlining of the manufacturing process in conjunction with the world's largest aeration system manufacturing space has generated major quality benefits. Activities include the design, production and standardization of production procedures, fixtures, and tooling. In addition to standardization and optimization, proper recording of specific production procedures and test data are routinely employed as part of the quality control program.

### **Quality Control of EDI Components**

A key element in the quality control program implemented by EDI includes quality control checks:

- when material is received from EDI vendors,
- at the point of fabrication of equipment,
- spot checks of product by team leaders,
- checks prior to every system shipment.

### **Supplier Certification and Quality**

EDI's final requirement for quality includes selecting suppliers of EDI Aeration System components who utilize superior quality control programs. The basic quality of these components provides EDI with effective total system quality control. Major components utilized in EDI Diffuser and Aeration Systems are produced by companies who are fully certified to ISO standards, or who are in the process of completing these Certification requirements. In particular, the following components have been certified or are being certified as part of the overall program:

- 用于储存产成品所需空间

### **测试设备**

EDI 的质量保证还源于对材料的测试、产品性能的演示。EDI 拥有世界上最先进测试设备用于检测扩散曝气系统的氧气传递与混合性能，包括数据记录，水下摄像和测试全过程摄像。

EDI 拥有曝气系统部件质量检测实验室，测试 EDI 质量控制系统的指标：材料的强度和尺寸，操作压力，以及空气释放的接触角度和均匀性。

EDI 还拥有用于产品实地性能测试的体系，包括产品投入使用以后的“断气分析”。

### **工程与预生产**

质量控制初始于其他领域：工程设计、制图、采购、和生产。优质的生产流水线，配之于世界上最大曝气系统的制造车间，是质量控制的主要保证，包括：设计，生产过程的标准化，生产设备的校正与安装，以及技术的更新与实施。除生产过程的标准化与优化外，生产过程和测试数据的日常记录也是质量控制体系的一个组成部分。

### **EDI 部件的质量控制**

EDI 质量控制体系的一个关键环节是对以下各环节进行质量控制检查：

- 从供应商处接收到材料时的检测
- 在设备组装时刻的检查
- 生产主管的抽样调查
- 发货时的再次检验

### **供应商认证和质量监控**

为达到超级质量的最终要求，EDI 选择那些实施高级质量监控体系的供应商。部件的质量是 EDI 整个质量控制体系的保证。用于 EDI 扩散器和曝气系统的主要部件是由获得 ISO 认证或正进行认证的厂家提供。尤其是以下部件必须经过认证：

Stainless Steel Drops, Piping, Raw Material and Supports: Stainless steel drops, piping, material and supports provided as part of EDI Aeration Systems are manufactured by companies who have achieved ISO Certification.

PVC Piping and Fittings: PVC piping provided as part of EDI Aeration Systems is manufactured to industry recognized ASTM and Plastic Pipe Institute procedures and formulations. PVC fittings provided as part of EDI Aeration Systems are manufactured to industry recognized ASTM, NSF, and IAPMO procedures and formulations.

Polyethylene Piping and Fittings: Polyethylene piping provided as part of EDI Aeration Systems is manufactured to industry recognized ASTM and Plastic Pipe Institute standards. EDI's primary PE piping suppliers incorporate ISO Certification. EDI's primary PE fitting manufacturer is also ISO Certified.

Diffuser Membranes: EDI advanced technology membranes are manufactured with ISO certification prior to perforation.

Aeration Units: All other major system components (stainless steel clamps, saddles and fittings) in the EDI Aeration Systems are manufactured to industry recognized ASTM and Plastic Pipe Institute procedures and formulations and/or by companies with ISO Certification.

Environmental Dynamics Inc. incorporates these quality components into our total manufactured products and systems. Using quality components and products as part of EDI Systems plus the internal quality control activities and product testing by EDI assures superior systems for Clients throughout the world. EDI maintains its commitment to excellence and is pleased to provide evidence of a superior quality for the review and consideration of Clients, Engineers, and Business Associates.

Please contact EDI if you have questions or we can provide additional information. Environmental Dynamics Inc.

不锈钢引管, 支管, 原材料 和 支架: EDI 系统中的不锈钢, 支管, 原材料和支架是由获得 ISO 认证的厂家生产的。

聚氯乙烯管和配件: EDI 系统中的聚氯乙烯管是由得到 ASTM 和塑料管设计程序和配方认可的行业生产。EDI 系统中的聚氯乙烯附件是由 ASTM, NSF, 和 IAPMO 程序和配方认可的行业生产。

聚乙烯管和附件: EDI 曝气系统中的聚乙烯管和附件是由得到 ASTM 和塑料管设计过程与配方认可的行业生产。EDI 的主要 PE 管及附件供应商获得了 ISO 认证。

扩散器膜: EDI 的高技术膜在打孔前的全过程是依据 ISO 认证体系生产的。

曝气装置: 所有其它 EDI 曝气系统中的主要配件 (不锈钢夹套, 夹板, 和附件) 是由 ASTM 和塑料管设计过程和配方认可的行业或获得 ISO 认证的厂家生产。

EDI 将这些高质量部件用于公司的整个制造与系统之中。高质量部件和产品的采用, 以及 EDI 内部质量监控和产品测试, 都是确保为客户提供高质量体系。EDI 将一如既往的信守对卓越质量的承诺, 并乐意为客户, 工程师, 以及商业协会等出示卓越质量的凭证。

如果您有任何问题或需要其它有关信息, 请联系 EDI。

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