Aeration for Life™

EDI’s focus on long-term commitments with our customers is one of our principle values. When you partner with EDI, you can be certain we are dedicated to servicing the needs of your aeration system for its entire lifetime.
Environmental Dynamics International specializes in the research, development, application and supply of advanced technology aeration and biological treatment solutions for municipal and industrial wastewater treatment.

**Brief History of EDI**

**1975**
Founded with 1800 sq. ft. building

**1994**
Launched wastewater.com
Relocated to 110,000 sq. ft. building

**1999**
Diffuser Express® division established

**2001**
President’s “E” Award for outstanding exporting

**2007**
Included in INC 5000 fastest growing privately held companies
E-Star Award for continued excellence in exporting
Established Aeration Works™ Division

**2009**
Acquired Water Engineering Ltd. assets in United Kingdom

**2011**
US Department of Commerce SBA Top 100 Award
engineered solutions

EDI engineered solutions are the cornerstone of over 35 years in the water and wastewater treatment industry. Applying the advanced technology principles of aeration and biological treatment to the challenges facing its customers has earned EDI a reputation as an industry leader.
Aeration Works™ Division

Aeration Works provides system operators a source for fast, reliable installations and maintenance. The experienced installers and field service professionals of Aeration Works are experts at the installation and maintenance of aeration systems.

Diffuser Express® Division

Diffuser Express is committed to excellence in supplying diffusers, membranes, and specialty diffuser items across all brands for new and existing water and wastewater treatment applications. Diffuser Express is structured to deliver EDI’s quality products with “express” service and competitive pricing.

Research and Development

EDI continually invests in new technologies to optimize system performance and reliability. Through our membrane technologies and product engineering divisions, EDI devotes a multitude of resources to the core research and development associated with aeration and biological treatment systems.

Customer Service

EDI has the ability to support wastewater treatment services in a global capacity. With support from EDI’s engineered systems division; parts and installation divisions; regional service centers; and network of representatives worldwide, EDI handles aeration equipment needs with superior customer service.

Global Logistics

EDI maintains major manufacturing capabilities in several countries. EDI’s manufacturing capabilities; supply chain management programs; and regional locations worldwide allow EDI to effectively deliver quality systems, plus installation, maintenance and service to its customers around the globe.
fine bubble aeration

Fine bubble diffuser systems are a key component in controlling operational economics of a wastewater treatment plant. EDI's fine bubble diffuser platforms offer maximum performance and application flexibility for system optimization.
**FlexAir® Disc**
- Threaded or saddle mounted
- Glass filled PP construction
- Available in 7" (178mm), 9" (230mm), 12" (305mm)
- Membrane or ceramic
- Mounts on PVC, CPVC, ABS, SS piping options

**FlexAir® Tube**
- Threaded or saddle mounted
- XL 2" (65mm) & Magnum™ 3" (92mm) diameters
- Available with PVC, CPVC, ABS, SS piping options
- Full circumferential perforation
- Available in multiple lengths

**FlexAir® MiniPanel™**
- Saddle mounted
- 7.5" (190mm) panel
- Available with PVC, CPVC, ABS, SS piping options
- Top only panel perforation
- Standard length of 51.5" (1.36mm)

**FlexAir® StreamLine™**
- Fully integrated, aeration system
- Panel perforation for ultra-high OTE or full perforation for mixing performance
- 84" (2.1m) standard module unit length
- Available with PVC, CPVC, ABS, SS piping options
- Maximum membrane area deployment

Additional specialty fine bubble equipment including: FishStik™ for aquaculture applications; precision NanoPore™, MicroPore™, and ArmorCoatings™ for reduced fouling also available.
Coarse bubble diffuser systems offer moderate oxygen transfer efficiency and low maintenance with maximum mixing. EDI's full spectrum of coarse bubble diffuser platforms provide advances in mechanical reliability, application flexibility, and ease of installation and maintenance.
**MaxAir™**

- Saddle mounted plastic units
- Available in PVC, ABS or CPVC
- Maximum mixing and reliability
- Low maintenance

**MaxAir SS™**

- Stainless steel construction for chemical, temperature and UV resistance
- High airflow capacity
- Available in 24” (610mm) and 12” (305mm) lengths
- Low maintenance

**PermaCap™ / FlexCap™**

- Threaded 3/8” or 3/4” design NPT connection
- Low capital & maintenance cost
- 5” (127mm) or 3” (79mm) diameter
- Durable ABS body with diaphragm check valve
- Available for top or bottom mounting

**HexAir™**

- Rod-thru diffuser design
- Available in 1” (30mm) and 2” (65mm)
- High shear mixing
- Low maintenance
- Heavy wall impact resistant ABS construction
advanced treatment lagoon aeration systems (ATLAS™)

EDI lagoon systems deliver economical solutions for wastewater treatment throughout the world. Low operating cost and minimal operator attention make lagoon systems the preferred process solution for secondary treatment where land availability and proper topography permit.
ATLAS-DBBR™
- Decanted bio-balanced reactor
- Full nitrification, even in cold environments
- High BOD & TSS Control
- Denitrification options
- Low maintenance & minimum operating costs
- Ideal for flows with high peaking factors

BioReef®
- Non-confined submerged flexible media
- High surface area to volume ratio
- Well suited for carbonaceous BOD removal
- Resistant to biological solids washout
- Maintenance free

ATLAS-IS™
- Internal separator system
- Full nitrification, even in cold environments
- Continuous inflow & discharge
- Low operating & maintenance costs
- Complete mix reactor

ATLAS-IC™ / ATLAS-EC™
- Internal clarifier - ATLAS-IC™
- External clarifier - ATLAS-EC™
- Full nitrification, even in cold environments
- Maintenance without reactor dewatering
- Maximum BOD and TSS control
- Complete mix reactor
system configurations

Each EDI diffuser platform is available with the appropriate system configuration for optimized functionality. System options are available for superior energy savings, process performance, improved system reliability, ease of installation and maintenance, and service life.
**Fixed Grid**
Accommodates variable water levels
Disc, Tube, Panel, and StreamLine™ options
Floor mounted, ideal for concrete basins
Supports highest density applications

**Submerged Lateral**
Accommodates variable water levels
Well suited for cold environments with air piping ballasted to basin floor
Retrievable units without dewatering
Well suited for low aeration intensity lagoons
Low maintenance

**Floating Lateral**
Accommodates variable water levels
Retrievable units without dewatering for low maintenance
Supports uneven floors with suspended units
For low intensity and conventional F/M

**ModuleAir™**
Accommodates variable water levels
Modular units resting on reactor floor
Available with multiple EDI diffuser options
Individually retrievable modules for maintenance without dewatering
For high intensity aeration applications

Specialty configurations including: EDI Retractable system for unrestricted access to the reactor floor; Nautilus® for flexible float-in/float-out system maintenance, and LiftAir™ for intense aeration applications where the reactor cannot be drained for system maintenance.
In total, EDI provides municipal and industrial treatment solutions in over 100 countries, has 6,000+ installations, and treats the wastewater needs for an equivalent of more than 300 million people.