

# PRODUCTS + SERVICES





## Aeration for Life™

EDI's focus on long-term commitments with our customers is one of our principle values.

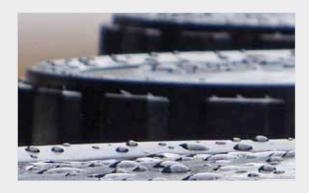
When you partner with EDI, you can be certain we are dedicated to servicing the needs of your aeration system for its entire lifetime.







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. building1994 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

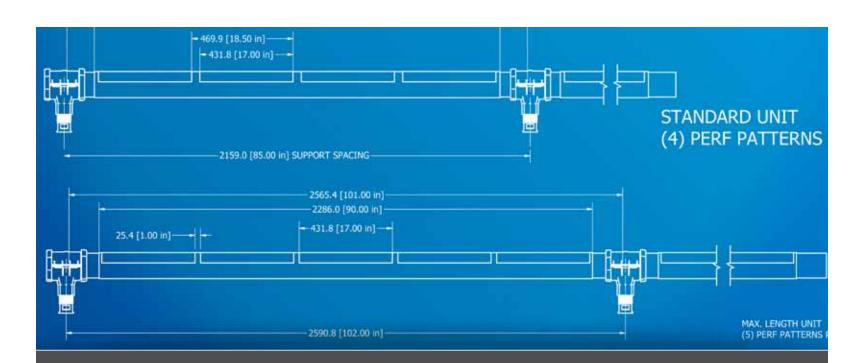
E-Star Award for continued excellence in exporting

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<sup>™</sup> 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.



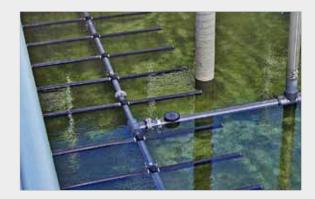
#### FlexAir® Disc

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)

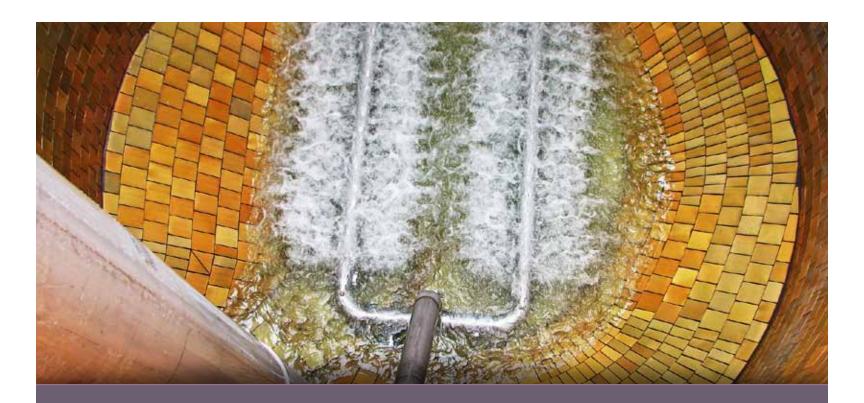


#### 🛑 FlexAir® StreamLine™

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 aeration

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<sup>™</sup>

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



### **H**exAir™

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<sup>™</sup>)

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



### 🖶 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



#### 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



#### **■** ModuleAir<sup>™</sup>

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

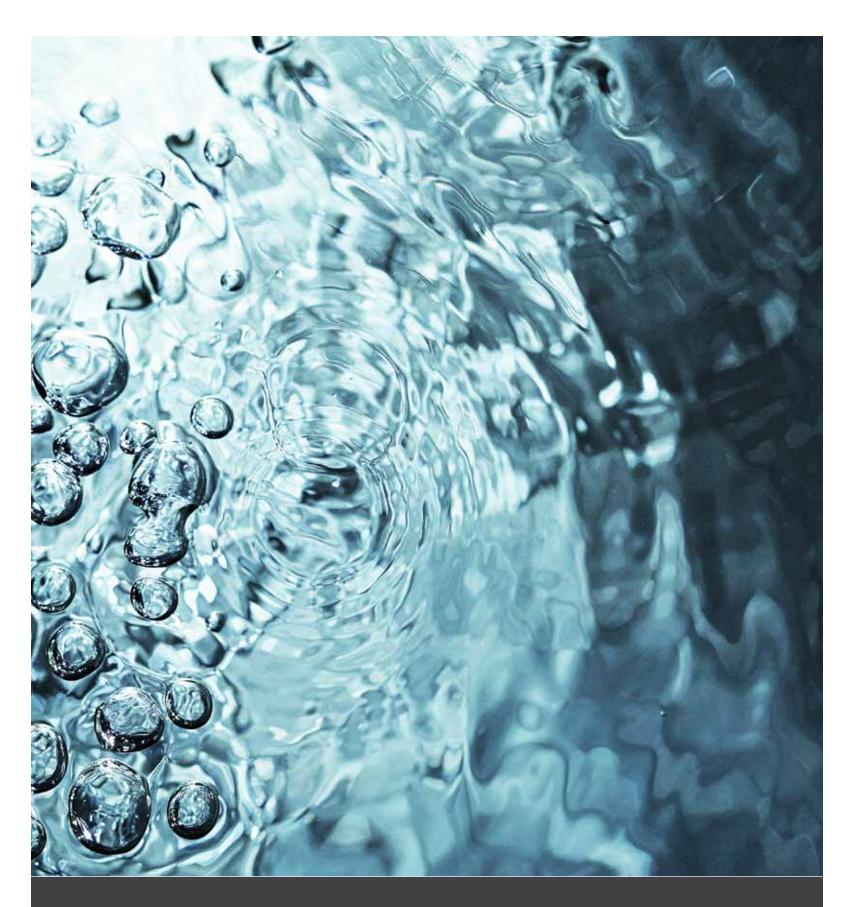


Specialty configurations including: EDI Retractable system for unrestricted access to the reactor floor; Nautilus® for flexible float-in/float-out system maintenance, and LiftAir™ for intense aeration applications where the reactor cannot be drained for system maintenance.



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.







Environmental Dynamics International wastewater.com