QUANTAER®
Fine Bubble Aeration System

Installation Features

Not all Aeration Systems are created Equal
Low Cost Does not Equal = Lowest Cost of Ownership
The Aquarius Difference:
- Diffuser Holder
- Diffuser Element
- Air Distributor Joints
- Air Distributor Supports

When every minute counts ....

Quantaer Fine Bubble Aeration System Installation

Main Components of Fine Bubble Aeration System

Drop Pipe and Air Manifold Connection
The Diffuser Retainer Ring
The only full contact vs point contact thread design

The Aquarius Difference:
- 120% greater thread depth
- 110% greater flange thickness

Benefit: Minimizes loosening of the retainer ring

The Diffuser Holder
The only robotically manufactured diffuser holder which provides repeatable quality diffuser after diffuser

The Aquarius Difference:
- Low profile, single piece holder and subplate design
- Factory bonded to piping insures a level system
- Solvent AND ultrasonic welding provides no-worry seal

Benefit: Simplified installation

The Diffuser
EPDM Membrane manufactured with proprietary perforation pattern. (Also available in Ceramic)

The Aquarius Difference:
- Increase in air flow uniformity up to 5%
- Integrated check valve.
- Typical performance 7-10 years when installed, operated and maintained in accordance with the IOM Manual

Benefit: Less installation
The Joint
The weakest link in the system with greatest potential for leaks or failure is the joint.

The Aquarius Difference:
- Anti-rotational union style joint provides unimpeded 360° rotation for speed in leveling
- Anti-rotational feature does not stress joint
- Heavy duty boltless fixed union style
- Anti-rotational lugs grip the O-ring
- O-ring compressed on four (4) sides vs two (2) sides reduces chance of leaking
- 120% greater thread depth for positive engagement
- 110% greater flange thickness provides greater compression force.
- Hand tighten joint PLUS 1/4 turns to improve joint integrity.
- Tighten with strap or lug wrench

Benefit: Increased installation rate over expansion couplings or flanges through elimination of nuts, bolts and gasket sets and sleeve and band clamps.
The Support
All supports are guide style to accommodate expansion and contraction

The Aquarius Difference:
- Single anchor bolt along centerline of pipe for 4” air distributors or manifolds
- Infinitely adjustable over the height range of the support
- One clamp bolt elevation sets all with the grid
- Locator plate bi-directional, eliminates installation errors and loose supports
- Withstands up to 70% greater torque without damaging deflection.
- Critical for 1/2” anchors bolt requirements

Benefit: Locating plate deflects under the same anchor bolt torque, remains anchored.