

Domestic Fabrication Quality Assurance and Quality Control

Aquarius Technologies, LLC maintains a vigorous QA/QC program for its fabricated components in order to provide for trouble free installation and operation. A number of procedures and standards are employed for our diffusers and aeration piping systems.

In order to maintain our high level of quality control, Aquarius designs, sources and fabricates all of its aeration and process components in the United States. This business decision allows us to closely partner with our suppliers and fabricators to supply a repeatable quality product to meet your critical aeration needs.

Membrane Diffuser Assurance Testing for Dynamic Wet Pressure (DWP), Uniformity and Tensile Strength

- Ceramic diffuser assurance testing for permeability, DWP and strength
- EPDM Membrane diffuser assurance testing for DWP
- Military Standard 105-E protocol



Drop Pipes

- Stainless steel piping in accordance with ASTM A-778/774
- ASME certified welders
- Post fabrication piping is passivated and cleaned per ASTM A-380
- ISO 9001 certified supply source



PVC Piping Manifolds

D-1784, D-1785, and D-3034 (ASTM Standards)

- PLC dimensioning, drilling and cutting.
- Pipe joints factory bonded to the pipe prior to shipment



Quality Assurance Review

- Visual Check of component parts and finished assemblies
- Finished assemblies checked to drawings

PVC Piping Air Distributors

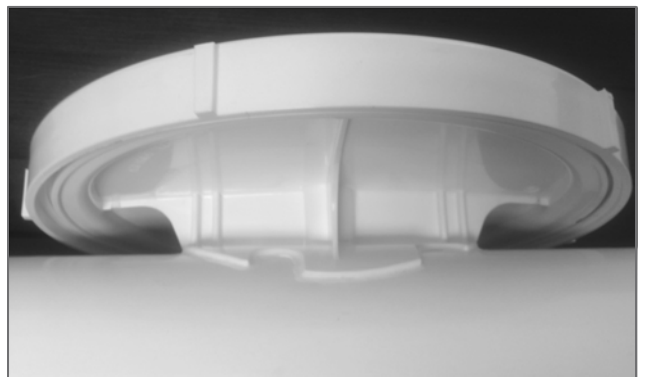
D-1784, D-1785, and D-3034 ASTM Standards

- Diffuser holders are robotically factory solvent welded and fusion bonded to the pipe to insure a structurally superior connection
- Uniform primer application
- Uniform solvent application
- Precise Diffuser holder positioning
- Ultrasonic Staking creates hermetic seal



Finished Product

- Ready for final QA/QC check



Air Distribution System Quality Control

- Diffuser holder samples are torque and impact tested to insure proper fabrication



Torque Testing

- Pipe and Holder Assembly Inserted into Restraining Vice
- Holder Subjected to Rotational Torque in accordance with Aquarius QA/QC Procedure.



Impact Testing

- Tests the Quality of the Weld between the Holder and Pipe.
- Pipe and Holder Assembly Subjected to Impact in accordance with Aquarius QA/QC Procedure.

