



aeration for life™

PRODUCT SPECIFICATIONS

Fixed Grid Pipe System with EDI tube and panel diffusers

- Factory manufactured components with fixed mechanical connections for ease of installation
- No size constraint on drops and headers, 3" thru 8" and 90 mm thru 160 mm for distribution laterals
- Available with all EDI tubular/panel diffusers
- Uses no slip joints that are subject to wear and replacement, increasing service life
- Permanently anchored to reactor floor; stainless steel supports standard
- Stainless steel drop pipe and rigid PVC header and lateral standard for maximum value; alternate materials (ABS, CPVC, and Stainless Steel) and wall thicknesses available for heat, chemical resistance, or when maximum durability is desired



Permanently anchored to reactor floor; stainless steel supports standard



Accommodates variable water level applications



Pipe sections sized for low headloss and uniform air distribution

Engineered Components Designed for Unmatched System Reliability and Operating Performance

EDI Fixed Grid Piping Systems are ideal for conventional tank applications where access to the reactor for installation and system maintenance is available. The system is engineered for maximum long term economic value and reliability, and is based on design methodologies and system components specifically developed to meet customers' needs and customized for each application. The fundamental principles used to design each system include the following:

The airflow requirement for each pipe section is evaluated and the appropriate pipe size is selected for low headloss. This helps ensure uniform air release between diffusers and a low system operating pressure. There is no size limit on drop and header sections. Distribution laterals are available from 3" to 8" and 90 mm to 160 mm.

Pipe supports are applied based on the mechanical properties of the selected piping components, and spacing is determined to account for worst-case field conditions. Pipe supports are designed to allow unrestricted movement due to thermal expansion. This design philosophy allows fixed joints to be used throughout the system. This eliminates maintenance issues common with slip joints. Supports also restrain axial rotation. This is important for tube systems where torsional loads are possible. Supports are typically fabricated of stainless steel. Where extreme external loads are anticipated or alternate materials of construction are desired, the optional SuperStrut™ diffuser support is available.

All pipe sections are evaluated for condensate collection and purge requirements. Systems will feature either a self-purging device that is integral to the aeration grid or manual purge at the top of the drop pipe. EDI Tube Diffuser Fixed Grid Piping Systems feature the FlexAir® Magnum™, and MiniPanel™ diffusers for energy efficiency and low maintenance. The MaxAir™, coarse bubble diffuser option is also available when energy efficiency is not a significant concern.

For additional information on an EDI Fixed Grid Piping System with tube or panel options, visit our website: www.environmentaldynamics.com.

**MADE IN
USA**

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