

# Sanitaire<sup>®</sup> Diffused Aeration Grid Components

DURABLE SUPPORT FOR FINE BUBBLE DIFFUSION



Adjustable grid support



Secure spline joints

**Beneath every Sanitaire diffused aeration system is a solid foundation. Grid components are integral to the performance of the Sanitaire fine bubble diffuser range and hold important supporting roles.**

## **Optimized configuration**

No aeration system is complete without an effective air distribution system. Using in-house tools, we optimize designs for temperature and pressure considerations and tailor your grid to meet oxygen transfer requirements.

## **A solid framework**

Patented Sanitaire spline joints ensure firm connection of air supply pipes from the dropleg to the diffusers. Engineered to withstand thermal expansion and contraction, water hammer and other dynamic stress, these spline joints securely fasten the pipes, thereby preventing air leakage, pipe blow apart and pipe rollover.

## **Adjustable system support**

Made of durable corrosion-resistant stainless steel, Sanitaire guide supports securely anchor Sanitaire diffused aeration systems. These robust threaded supports feature a height adjustment mechanism to ensure accurate grid leveling.



**SANITAIRE**  
a xylem brand

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The pipe bracing assembly accommodates pipe expansion while providing a stable foundation. Specially reinforced Sanitaire guide supports are available for high velocity and mixer zones.

## Easy to install and adapt

Sanitaire air distribution pipes are delivered with factory-welded diffuser holders as pre-assembled units to facilitate quick installation.

Moreover, Sanitaire grid components are fully interchangeable with your existing system. To meet more stringent emissions requirements, for example, it's easy to replace Sanitaire ceramic discs with Silver Series II membranes.

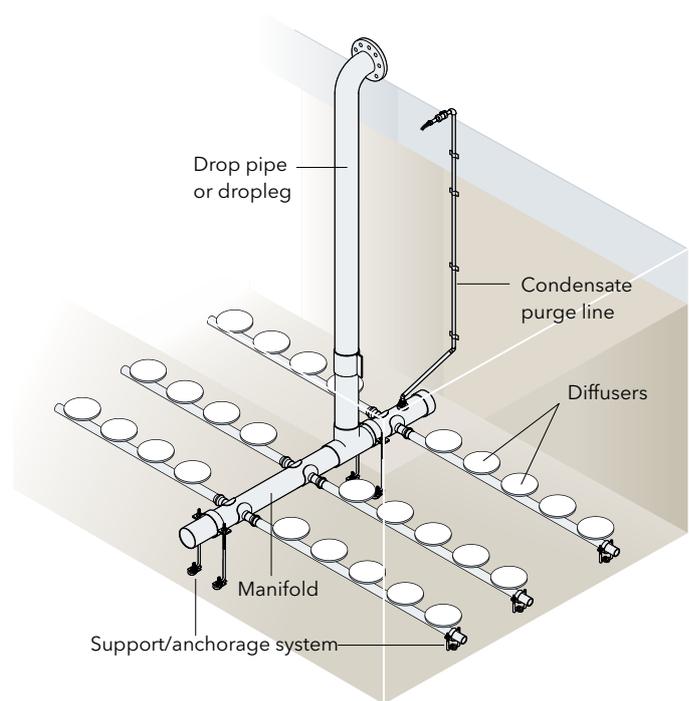
## Aeration purging

In any aeration system, moisture from the air will be drawn in by the blowers and condense. This condensation can accumulate in the manifold and headers and increase pressure in the system.

To deal with water buildup, we offer a separate purge system that removes condensate from the lowest point in the grid. This can be designed for either manual or continuous purge.

## Technical data

Dropleg	Stainless steel AISI 304 or 316
Manifolds	uPVC, cPVC, or stainless steel AISI 304 or 316
Distribution headers	uPVC or cPVC for higher temperatures and to prevent UV degradation; or stainless steel AISI 304 or 316
Supports and anchor bolts	Stainless steel AISI 304 or 316
Gaskets	EPDM or natural rubber



## Experience you can trust.

With our unique expertise in biological treatment processes and equipment, Xylem can design state-of-the-art aeration systems that provide energy efficiency and process stability. From developing aeration and mixing specifications to defining a control strategy, we can assist you every step of the way.