Aqua-Jet II®

Contained Flow Aerator

AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

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The Aqua-Jet II® contained flow aerator is designed and manufactured with the same expertise and quality workmanship as the industry renowned Aqua-Jet® aerator. The 304 stainless steel volute and intake cone are standard features of the Aqua-Jet II. A one-piece motor shaft of 17-4 stainless steel and dynamically balanced propeller of 316 or 15-5 stainless steel are also standard. The dome shaped cover assembly is constructed of fiberglass reinforced polyester (FRP) for spray control.

Aqua-Jet II® aerator operating in a cold weather application.

Features and Advantages

- Available in 3-100 HP
- High mechanical reliability
- Easily installed
- Simple mooring arrangements
- Controls cooling from wind blown spray
- Limits waste build-up on motor cooling fins in high solids applications
- Reduces ice build-up during winter months

Cover Assembly and How It Operates

The FRP dome cover is designed for plants that must comply with certain clean air standards such as aerosol emissions and misting control. The cover is also appropriate for applications that require continued operation of the Aqua-Jet aerator when adequate heat supply is lacking due to environmental conditions or process selection. The cover can easily be retrofitted onto existing Aqua-Jet aerators. The cover serves as a spray control shield by re-directing the spray produced by the aerator back into the water surface, minimizing heat dissipation. The cover mounts directly to the diffusion head of the aerator and is constructed of four or six sections dependent on the aerator motor size (four for 25 HP and below, six for 30 HP and above). The cover is supplied unassembled and includes instructions for easy mounting directly to the diffusion head of the aerator.

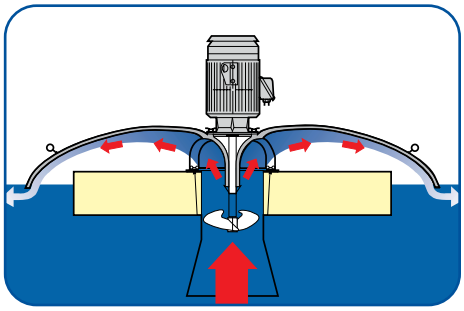

Illustration of the Aqua-Jet II® cover assembly operation.

Cold Weather Accessories

A build-up of ice and debris around the motor, diffusion head, and float may affect the efficiency of your surface aerators. You may also experience loss of heat in your aeration basin during winter months. If your plant experiences any of these issues, you may want to consider the additional cold weather accessories below, offered by Aqua-Aerobic Systems.

Low Trajectory Assembly

The Low Trajectory Diffuser (LTD) is a high density polyethylene ring that attaches to the top of the Aqua-Jet diffusion head. This effectively increases the diameter size of the diffusion head, thus lowering the spray pattern. The result is a reduction of wind blown spray and misting, ideal in cold climates where a low spray pattern and less cooling is desired.

Arctic Pak

The Arctic Pak utilizes thermal resistance heaters that decrease the chance of ice build-up on the Aqua-Jet cast diffusion head. It comes complete with a junction box mounted on the motor fan cover, and automatic controls. The Arctic Pak can be used on either floating or fix-mounted units. Operation is controlled by an ambient temperature thermostat.

PROTECTING THE WORLD'S WATER.

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The information contained herein relative to data, dimensions and recommendations as to size, power and assembly are for purpose of estimation only. These values should not be assumed to be universally applicable to specific design problems. Particular designs, installations and plants may call for specific requirements. Consult Aqua-Aerobic Systems, Inc. for exact recommendations or specific needs. Patents Apply.

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