



FINE-MESH OVERLAY PANEL SYSTEM

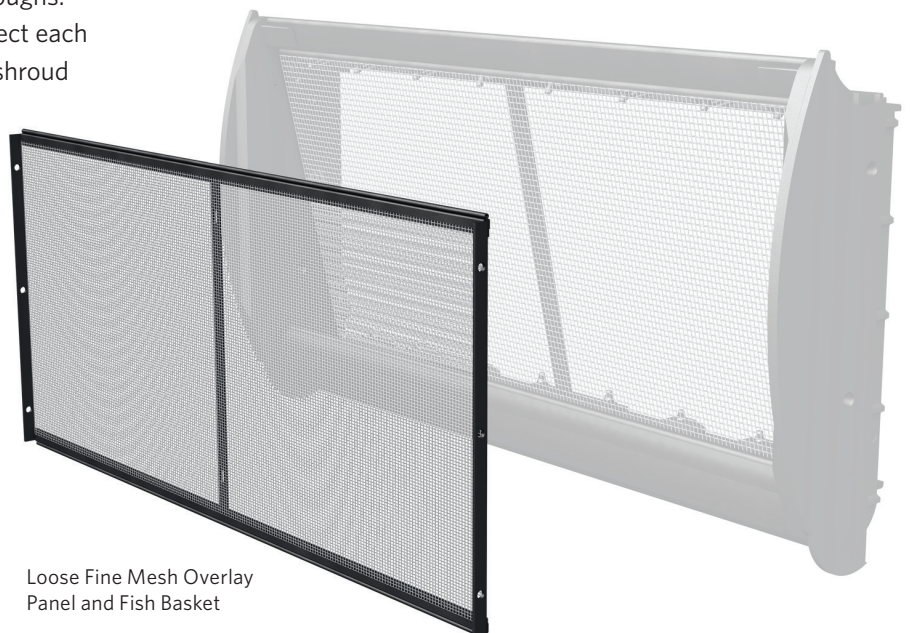
RETROFIT TRAVELING WATER SCREENS FOR PREVENTION OF EARLY LIFE STAGE ORGANISM ENTRAPMENT

The Evoqua Fine-Mesh Overlay Panel System reduces entrainment of early life stage organisms (i.e. larvae and eggs) in traveling water screens in order to meet §316(b) compliance. This retrofit overlay panel is designed to be secured to the non-metallic basket of Evoqua Thru-Flow traveling water screens.

The fine-mesh overlay panel is easily installed from the exterior front side of the screen without removal of the basket frame. In addition to the secured sides and top rail, the top and bottom sides feature rubber P-Seal gaskets to prevent small organisms from being entrained in potential gaps, while the low profile edges assure effective transfer of debris or organisms off the panel to the collection troughs.

Operators can easily install, remove, and inspect each overlay panel from the service deck once the shroud has been removed.

The ease of deployment allows operators the versatility of fine-mesh screening during spring months when entrainable-sized fish eggs and larvae are present, as well as removal of the panel to take advantage of coarse mesh operation under heavy debris load seasons later in the year.



Loose Fine Mesh Overlay Panel and Fish Basket

APPLICATIONS

The rule affects roughly 1,065 existing facilities across many industrial sectors:

- Aluminum manufacturing
- Electric generating plants
- Pulp and paper mills
- Chemical manufacturing plants
- Iron and steel manufacturing
- Petroleum refineries
- Food processing

BENEFITS OF UTILIZING THE FINE-MESH OVERLAY PANEL SYSTEM:

- Operate modified traveling screens that meet the best technology available (BTA) requirements set forth
- Cost-effective approach to compliance
- Allows seasonal application
- Field retrofit with minimal disruption to operations
- Assures acceptable intake velocity
- Proven to hundreds of applications

Regulation: EPA Clean Water Act, Section 316(b)

On May 19, 2014 the United States Environmental Protection Agency (EPA) released the final rule to their Clean Water Act, Section 316(b). This rule affects existing power plants and manufacturing facilities that withdraw at least 25 percent of their water for cooling purposes from adjacent lakes, rivers, or oceans or that have a design intake flow of 2 million gallons of water or more each day. Section 316(b) requires the EPA to ensure that the location, design, construction and capacity of cooling water intake structures reflect the best technology available for minimizing adverse environmental impacts. The regulation is designed to protect fish, shellfish and other aquatic life from being killed or injured by cooling water intake structures.



Larvae on the Fine Mesh Screen

Made in the U.S.A.

Our manufacturing plant is ISO 9001 Certified and is ISO 14001 Environmentally Compliant.



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