

CYLINDER SCREENS SELF-PROPELLED

No power is required to operate these self-cleaning, self-propelled single cylinder and T-screens, suitable for pumped intakes and gravity offtakes.

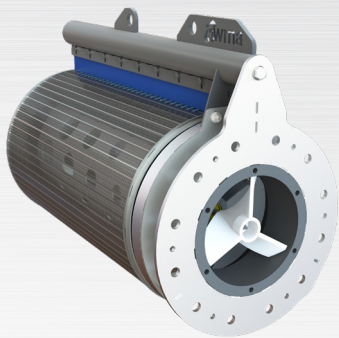
HOW IT WORKS

- The screen unit consists of a wedge wire cylinder and propeller drive system, with internal and external brush systems,
- Water flows through the wedge wire screen medium (excluding debris and protecting aquatic life),
- The propeller drive system operates automatically whenever the flow in the suction pipe exceeds a certain value, this in turn rotates the screen via a gearbox arrangement to self-clean the cylinder screen,
- Fixed internal and external brush systems clean both sides of the screening surface, preventing biofouling.

FEATURES & BENEFITS

- Suitable for flows between 3 ML/day (35 L/s) and 37 ML/day (428 L/s).
- Various screen aperture sizes available, typically 2mm slot width.
- Low maintenance stainless steel construction.
- Wedge wire screen medium is strong and durable.
- Self-cleaning with internal and external brushes.
- Internal diffusers ensure even flow distribution over the entire screen surface.
- Installed in a fixed position or on a Retrieval System.
- Cathodic protection minimises corrosion.
- Proven technology.
- Compliant with AUS/NZ Fish Screening Guidelines.
- Sustainable operation under heavy debris, sedimentation and biofouling conditions.
- Protects fish from entrainment and impingement.
- Protects pumps and pipeline infrastructure.
- Reduces the loading on, or eliminates downstream fine filtration systems.
- Improves water quality.





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APPLICATIONS

- Irrigation.
- Power plant intakes.
- Water extraction facilities.
- Cooling water intakes.
- Dam inlet towers.
- Seawater intakes.

DESIGN

DESIGN SUPPORT

- These brush-cleaned screens are designed and manufactured by AWMA Water Control Solutions under a licensing agreement with Intake Screens, Inc.
- Screen designs are based on worldclass, 25+ years of proven international performance, complemented with AWMA's design capabilities to provide full design support, ensuring the most appropriate solution is developed to suit site conditions.

SIZES

- Four sizes are available with flow rates ranging from 3 ML/day (35 L/s) to 40 ML/day (463 L/s).

MATERIALS

- Wedge wire made from Grade 304 Stainless Steel is standard, with alternative materials available on request.

MAINTENANCE

- AWMA's products typically have a minimum 25 year design life.
- Minimal maintenance is required offering low 'whole of life costs'.

MANUFACTURE

QUALITY

- All AWMA products meet relevant Australian and international standards.
- AWMA hold international accreditations for ISO 9001; Quality, ISO 14001; Environment and ISO 45001 OH&S management.
- AWMA's Integrated Management System aims to provide a framework to deliver products and services that consistently exceed customer expectations.

INSTALLATION

MOUNTING OPTIONS

Early project involvement ensures development of the most appropriate mounting and retrieval options, eliminating the need for operators to work in, on or over water. Whilst the screens are self-cleaning and require minimum maintenance, a number of solutions are available for ease of screen retrieval to the surface, which include:

- Submersible Pontoons.
- Rail Systems.

OPERATION

The propeller drive system on this model uses the waterway's natural flow to rotate the external cylinder screen, which in turn self-cleans both sides of the wedge wire screen. A clean and efficient screening solution allows water to flow through the screen into the suction pipe, delivering clean water (with fish protection), without disrupting flow.

COMMISSIONING

DOCUMENTATION AND TRAINING

- Detailed documentation on operation, testing procedures and maintenance will be provided with all AWMA screens.
- Comprehensive on and/or off site training available.

