

CYLINDER SCREENS SELF-PROPELLED

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

HOW IT WORKS

- The screen unit consists of a wedge wire cylinder, propeller drive system, internal brush system and external brush system,
- Water flows through the wedge wire screen surface (allowing for fish protected filtration),
- The propeller drive system operates automatically whenever the flow in the suction pipe exceeds a certain velocity, this in turn rotates the screen through a gearbox arrangement to self-clean the cylinder screen,
- Fixed internal and external brush systems clean both sides of the screening surface.

FEATURES

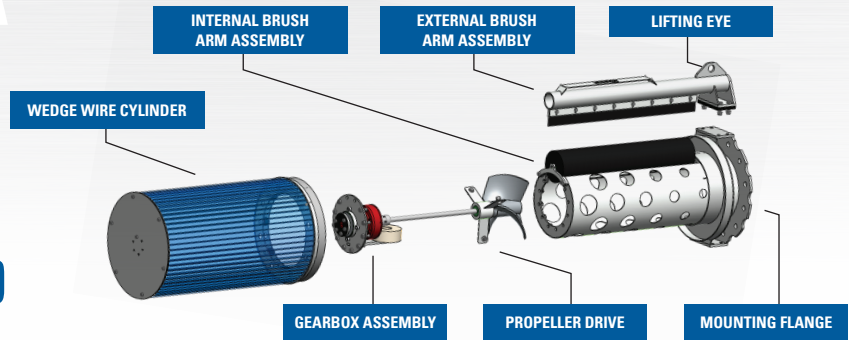
- Cylinder Screen suitable for flows up to 30ML/day.
- Various screen aperture sizes available, typically 2mm slot width.
- Low maintenance stainless steel construction.
- Wedge wire screen medium is strong and durable.
- Self-cleaning with internal and external brushes.
- Even flow distribution over screen surface.
- Retrievable or fixed position.
- Cathodic protection to minimise corrosion.
- Proven technology.
- Compliant with AUS/NZ Fish Screening Guidelines.
- Sustainable operation under heavy debris, sedimentation and biofouling conditions.

BENEFITS

- Protects fish from entrainment and impingement.
- Protects pumps from clogging.
- Protects downstream filtration and irrigation equipment.
- Improves water quality.



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APPLICATIONS

- Irrigation.
- Power plant intakes.
- Water extraction facilities.
- Cooling water intakes.

DESIGN

DESIGN SUPPORT

- Screen designs are based on worldclass, 20+ 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

Two sizes are available.

- Standard: for flow rates up to 15ML/day.
- Medium: for flow rates up to 30ML/day.

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 fabrication is in accordance with AWMA's accredited ISO 9001 Quality Management System to ensure each screen is manufactured to a high standard, tested and ready for trouble free operation.

INSTALLATION

MOUNTING OPTIONS

Early project involvement ensures development of the most appropriate mounting and retrieval options. 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 velocity 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.

