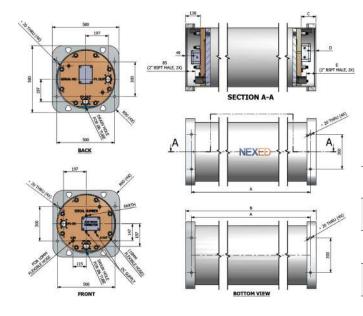


NEXED™ HIGH FLOW ELECTRODESALINATION MODULES

NEXED MODULE 3, 6, 12 M³/HR

The NEXEDTM modules provide a foundation to reimagine the possibilities of electrodialysis. Five modules ranging from 1.7 - 13.6 m³/hr (7.5 - 60 gpm) represent a substantial increase in efficiency and cost competitiveness for ED/EDR in higher salinity brackish water desalting applications. Proprietary flexmount connectors create a support for additional modules which simplifies skid construction.

Multiple modules can be used in parallel and series to meet brackish water salinity desalting requirements for flow rates up to, and greater than 1,000 gpm.



NEXED Module Series Features

- Tunable control for selective water quality
- Flexible design to optimize for low energy or small footprint
- Available in 2-pass or 4-pass configurations to optimize salt removal and system cost
- State-of-the-art ion-selective membranes
- High membrane utilization crossflow design
- Automated manufacturing to optimize performance
- High recovery capability
- Low operating pressure reduces system cost
- Can be operated in horizontal or vertical orientation
- On-board junction box

| Model | Configuration | on A B | | Flow Range m³/hr (gpm) | |
|-----------------|---------------|----------------------------|---------------|---------------------------|--|
| NEXED3- | 2-pass | 620 mm | 720 mm | 1.7 - 3.4 | |
| 4A-1 | | (24.4 inches) | (28.3 inches) | (7.5 - 15) | |
| NEXED6- | 2-pass | 994 mm 1,094 mm | | 3.4 - 6.8 | |
| 8A-1 | | (39.1 inches) (43.1 inches | | (15 - 30) | |
| NEXED12- | 2-pass | 1,740 mm | 1,840 mm | 6.8 - 13.6 | |
| 16A-1 | | (68.5 inches) | (72.4 inches) | (30 - 60) | |
| NEXED3- 6A-1 | 4-pass | 805 mm (31.7 inches) | | | |
| NEXED6- | 4-pass | 1,360 mm | 1,460 mm | 3.9 - 6 | |
| 12A-1 | | (53.5 inches) | (57.5 inches) | (17 - 26) | |

OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient temperature of 45° C (113°F).

MATERIAL CONSTRUCTION

- Wetted product water components of the NEXED module consist of: PVC, PPE/PPO/polystyrene, polypropylene, silicone, epoxy resin, ion-selective membranes
- Housing is fiberglass reinforced plastic (FRP). Standard color is white with a glossy finish.
- The proprietary Flexmount bracket/end-block assembly is an epoxy painted aluminum casting suitable for securing modules to the frames and/or each other in Evoqua system approved configurations.

ORDERING INFORMATION

| Ordering part | | |
|---------------|---------------|---------------|
| number | Model Number | Configuration |
| W3T366057 | NEXED3-4A-1 | 2-pass |
| W3T366049 | NEXED6-8A-1 | 2-pass |
| W3T366052 | NEXED12-16A-1 | 2-pass |
| W3T390742 | NEXED3-6A-1 | 4-pass |
| W3T390382 | NEXED6-12A-1 | 4-pass |

Each NEXED module has 6 process connections; feed, concentrate feed, product, concentrate, electrode inlet and electrode outlet. Note: polarity reversal applications utilize an A: B operation that changes the orientation of feed, concentrate feed, product and concentrate to mitigate fouling. PVC plugs and dust covers are provided with the module.

Module electrical connections are made through a single onboard junction box.

DIMENSIONS

| Diameter | | Width | Height | |
|----------|---------------|-------------------|-------------------|--|
| | 510mm (20 in) | 580mm (22.8 inch) | 580mm (22.8 inch) | |

MAXIMUM FEED WATER SPECIFICATIONS

| Feed water salinity | < 15,000 ppm (< 7,000 optimal) | | |
|--|---|--|--|
| Product water salinity minimum | 100 ppm | | |
| Temperature | 5 - 45°C (40 - 113°F) | | |
| Inlet pressure | ≤1.7 bar (≤25 PSI) | | |
| Free Chlorine (as Cl ₂) | 0.5 mg/L continuous 30 mg/L intermittent | | |
| Iron (as Fe) | <0.3 mg/L | | |
| Manganese (as Mn) | <0.1 mg/L | | |
| Aluminum (as Al) | <0.1 mg/L | | |
| pH (Continuous) | 3 - 10 | | |
| Total hardness (as CaCO ₃) | Less than saturation limits | | |
| Total organic carbon (as C) | <15 mg/L optimal | | |
| Total suspended solids (size µm) | <25 µm | | |
| COD (as O ₂) | <50 mg/L | | |
| Grease or oil (IR method) | <2.0 mg/L | | |
| | | | |

TYPICAL MODULE OPERATING PARAMETERS

| DC voltage | 0 - 600 | |
|-------------|-----------|--|
| DC amperage | | |
| Recovery | up to 95% | |

FLOW AND WEIGHTS

| Model | Configuration | Product Flow Min m³/hr (gpm) | Product Flow Nominal m³/hr (gpm) | Product Flow Max m³/hr (gpm) | Shipping weight | Operating weight |
|---------------|---------------|---------------------------------|-------------------------------------|---------------------------------|------------------|------------------|
| NEXED3-4A-1 | 2-pass | 1.7 (7.5) | 3 (13) | 3.4 (15) | 113 kg (250 lbs) | 125 kg (275 lbs) |
| NEXED6-8A-1 | 2-pass | 3.4 (15) | 6 (26) | 6.8 (30) | 170 kg (374 lbs) | 194 kg (427 lbs) |
| NEXED12-16A-1 | 2-pass | 6.8 (30) | 12 (53) | 13.6 (60) | 284 kg (626 lbs) | 332 kg (732 lbs) |
| NEXED3-6A-1 | 4-pass | 1.9 (8.5) | 3 (13) | - | 146 kg (322 lbs) | 164 kg (362 lbs) |
| NEXED6-12A-1 | 4-pass | 3.9 (17) | 6 (26) | - | 229 kg (504 lbs) | 265 kg (584 lbs) |



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