

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 on-board junction box.

FLOW AND WEIGHTS

Model	Configuration	Product Flow Min m ³ /hr (gpm)	Product Flow Nominal m ³ /hr (gpm)	Product Flow Max m ³ /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)

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	0 - 20
Recovery	up to 95%



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