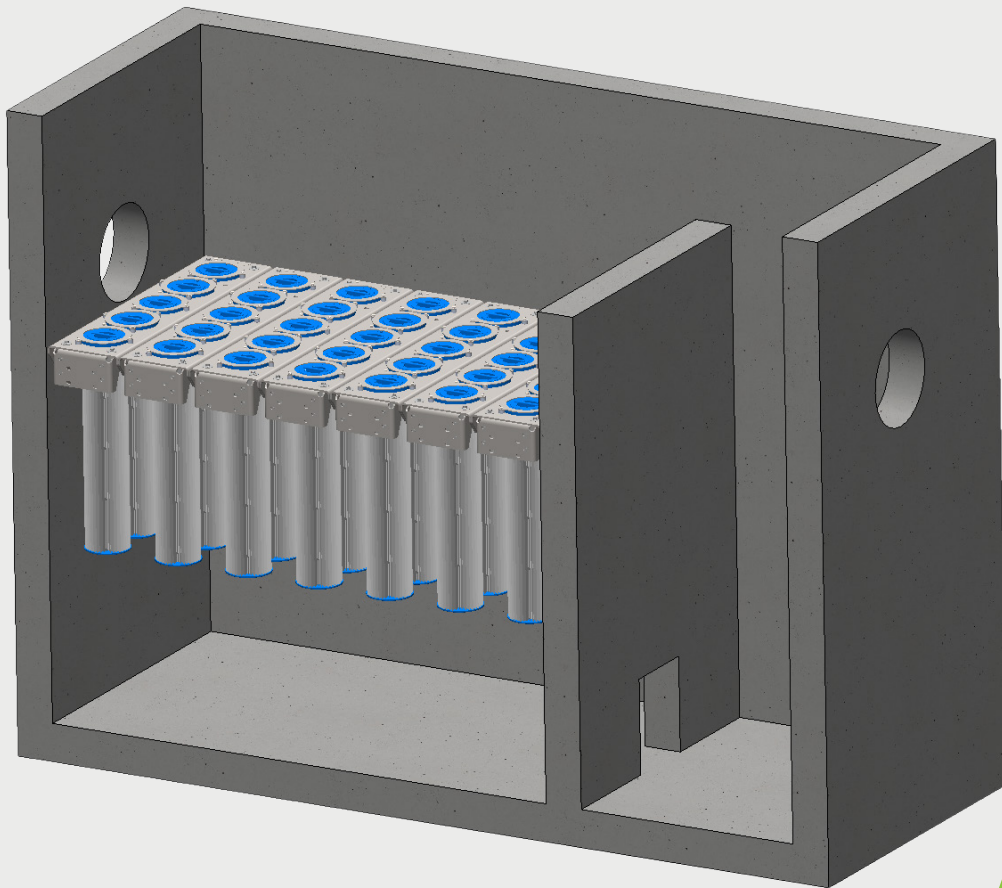


AquaLux™ Filtration System



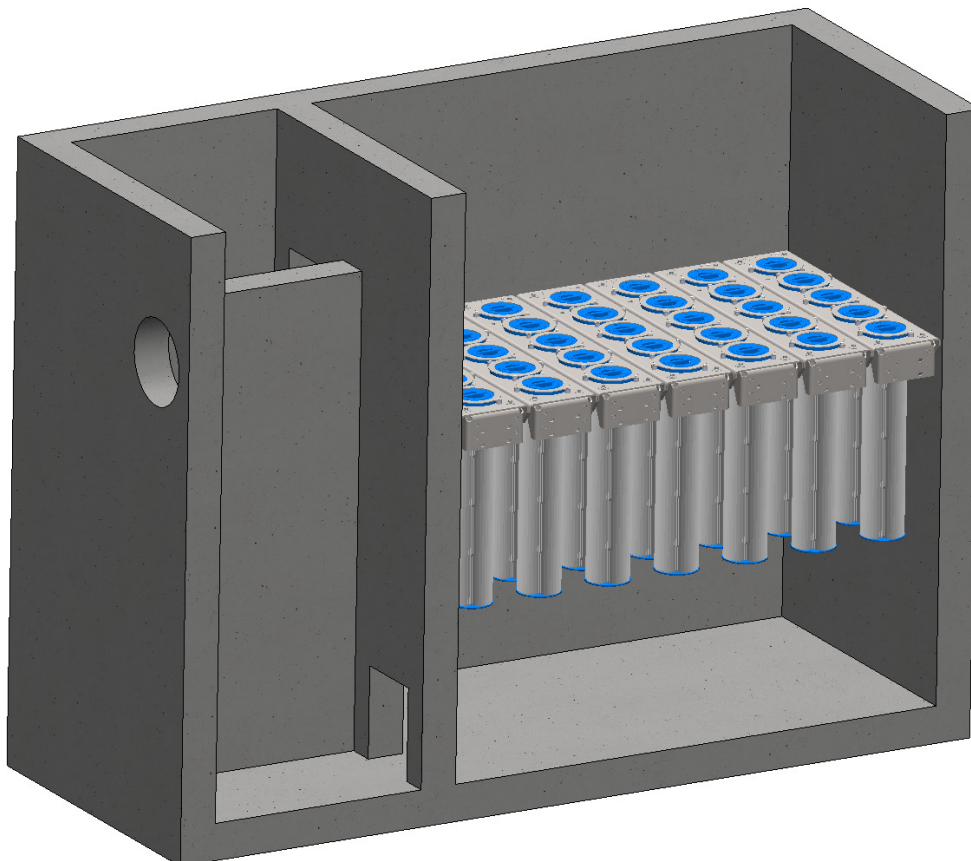
AquaLux Filtration System

AquaLux is a high-performance stormwater filtration system engineered to deliver exceptional treatment capacity in a compact footprint with zero drop across the system. Utilizing sedimentation and membrane filtration, AquaLux removes sediment, nutrients, metals, hydrocarbons, oil, grease, trash, and debris before runoff reaches downstream waterways. Designed for flexibility, AquaLux can be installed in manholes or vaults to fit a wide range of project requirements.

Unlike conventional high-flow filters, AquaLux maximizes treatment flow within a smaller footprint, helping projects meet water quality requirements while reducing excavation, structure size, and installation costs. With independently verified 80% TSS removal performance and regulatory approvals from leading stormwater agencies, AquaLux delivers a smarter, more efficient approach to stormwater treatment

Features

- High-flow stormwater filtration system designed for underground installation
- Exceptionally high treatment flow rates for its class
- Zero drop required across the system
- Combines sedimentation and filtration treatment mechanisms
- Compact footprint compared to conventional high-flow filtration technologies
- Built-in bypass capability to manage larger storm events and protect filter media
- Proprietary membrane filter elements capture fine sediment and pollutant-bound particles
- Available in HP manholes, concrete manholes, and vault configurations
- Minimal hydraulic grade line impact with no elevation loss between inlet and outlet
- Removes sediment, phosphorus, nitrogen, metals, hydrocarbons, oil and grease, trash, and debris
- Internal pretreatment chamber captures coarse sediment and debris before filtration
- Multiple standard sizes accommodate small commercial sites to large infrastructure projects



Benefits



Treat higher design flows with a smaller footprint, making site layouts easier and more efficient.



NJDEP-certified to achieve 80% TSS removal



Reduce right-of-way and space constraints on challenging urban projects.



Smaller footprint can reduce excavation volume and site disruption.



Flexible manhole and vault options simplify coordination with existing site conditions.



Bypass capability helps maintain performance during large storm events.



Simplifies design where hydraulic grade line is limited due to minimal drop requirements.



Standardized product sizes improve estimating and project planning.



Scalable platform allows one treatment technology across multiple project sizes.



Access for inspection and maintenance supports long-term system serviceability.



Independently tested and regulator-approved performance reduces specification risk



Vault delivered with decking preinstalled.

Maintenance Advantages

- Simple filter cartridge design facilitates easy removal and reinstallation.
- Filter cartridge height allows for easy manipulation.
- Lightweight filter cartridges can be handled manually and do not require lifting equipment.
- Filter cartridges can be cleaned via standard pressure washer to extend lifespan.

AquaLux Specification

Material and Design

- Internal components: Shall be 304 stainless steel materials for vault installations.
- Filter media: Filter media is pleated membrane material with plastic fittings.
- Concrete structures: Designed for H-20 and/or HS-20 traffic loading and applicable soil loads, or as otherwise determined by a licensed professional engineer. The materials and structural design of the devices shall be per ASTM C857 and ASTM C858.

Performance

- The stormwater filter system shall be an online or offline design based on local requirements, capable of treating 100% of the required treatment flow at full sediment load conditions.
- The stormwater filter system shall have no moving parts.
- The stormwater filter system shall be designed to remove at least 80% of suspended solids.

System Product Code	Treatment Bay Dimensions* (W x L)	Number of Filters	NJDEP Flow Rate (cfs)	System Product Code	Treatment Bay Dimensions* (W x L)	Number of Filters	NJDEP Flow Rate (cfs)
AQUALUX10	4 x 2	10	0.45	AQUALUX100	8 x 10	100	4.46
AQUALUX20	4 x 4	20	0.89	AQUALUX120	8 x 12	120	5.35
AQUALUX30	4 x 6	30	1.34	AQUALUX150	8 x 15	150	6.68
AQUALUX35	4 x 7	35	1.56	AQUALUX108	10 x 9	108	4.81
AQUALUX28	6 x 4	28	1.25	AQUALUX132	10 x 11	132	5.88
AQUALUX42	6 x 6	42	1.87	AQUALUX168	10 x 14	168	7.49
AQUALUX49	6 x 7	49	2.18	AQUALUX192	10 x 16	192	8.56
AQUALUX56	6 x 8	56	2.50	AQUALUX126	12 x 9	126	5.62
AQUALUX40	8 x 4	40	1.78	AQUALUX154	12 x 11	154	6.86
AQUALUX60	8 x 6	60	2.67	AQUALUX182	12 x 13	182	8.11
AQUALUX70	8 x 7	70	3.12	AQUALUX210	12 x 15	210	9.36
AQUALUX90	8 x 9	90	4.01	AQUALUX224	12 x 16	224	9.98

* Treatment bay size is not representative of the total vault dimensions. Inlet bay or bypass bay size will impact total vault size.

Installation

Installation of the stormwater treatment unit(s) shall be performed per the manufacturer's installation instructions. Such instructions can be obtained directly from your local ADS representative or by visiting adspipe.com.



adspipe.com