

Arcadia™ Hydrodynamic Separator

Arcadia is the latest market-leading stormwater quality device developed by ADS. This high-performance hydrodynamic separator is designed to remove typical stormwater pollutants of concern, including total suspended solids, trash, floatables, oils and greases. The Arcadia is a cost effective device that offers multiple design configurations, internal bypass capacity, and quick and easy installation.

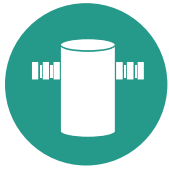
Features and Benefits



Multiple local and regional regulatory approvals including **ETV Canada Verified**



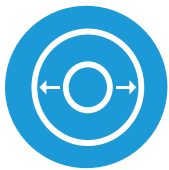
Internal bypass for inline installation. No elevation loss between the inlet and outlet.



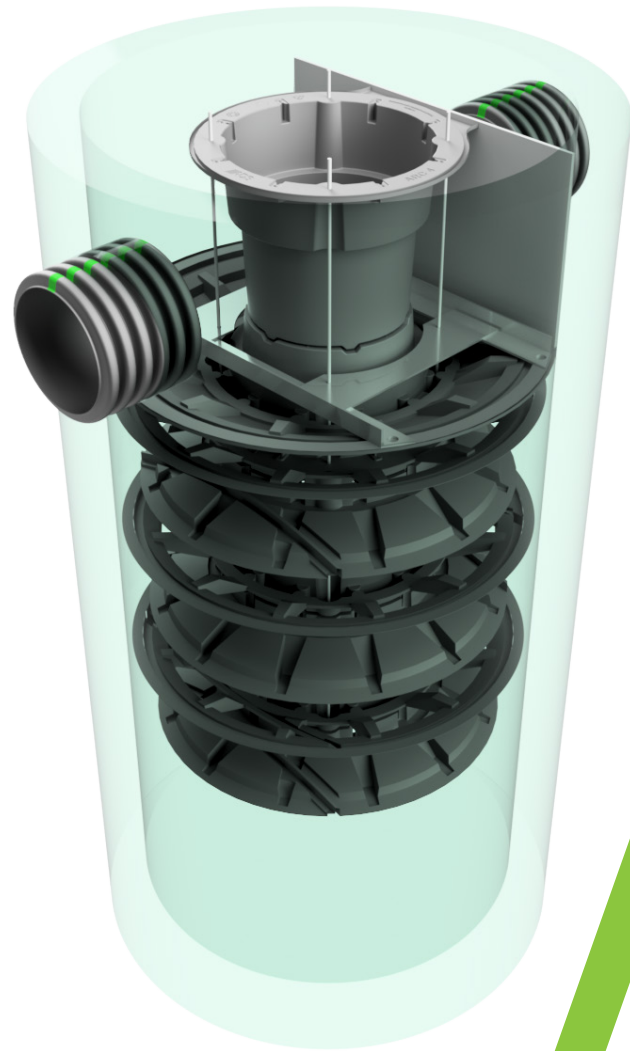
Innovative, patent-pending design mitigates turbulence in the sump area to prevent resuspension of captured contaminants.



Designed for easy maintenance and inspection using a vacuum truck or similar equipment. Both can be performed from the surface.



Arcadia can be installed in precast manholes 0.9 m - 3 m diameters or in SaniTite HP manholes 0.9 m - 1.5 m diameters.



Arcadia Specification

Materials and Design

- Concrete Structures: Designed for H-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.
- HP Manhole Structures: Made from an impact modified copolymer and polypropylene meeting the material requirements of ASTM F2764. Gaskets shall be made of material meeting the requirements of ASTM F477.
- Separator internals shall be substantially constructed of polypropylene, polyethylene or other thermoplastic material approved by the manufacturer.

Performance

- The stormwater treatment unit shall be an inline unit capable of conveying 100% of the design peak flow. If peak flow rates exceed maximum hydraulic rate, the unit shall be installed offline.
- The Arcadia unit shall be designed to remove oil and grit (TSS) per local jurisdictional requirements, and according to the performance demonstrated through testing at an iso-certified laboratory under the 2023 Canadian procedure for laboratory testing of oil-grit separators. Sizing of the unit shall be in accordance with the requirements of the ISO 14034 ETV (Environmental Technology Verification) standard, and subsequently confirmed under the verifiglobal performance verification protocol. Refer to the verification statement for specific performance parameters.
- The stormwater treatment unit internals shall consist of (1) separator assembly.

Installation

Arcadia Model	Manhole Diameter (mm)	Sump Depth (m)
AR3	900	1.40
AR4	1,200	2.06
AR5	1,500	2.19
AR6	1,800	2.63
AR8	2,400	3.50
AR10	3,000	4.38

Installation of the stormwater treatment unit(s) shall be performed per manufacturer's installation instructions. Instructions can be obtained by visiting adspipe.ca/arcadia.

