

HydroDome

Hydrodynamic Separator

HydroDome is the latest innovative stormwater management technology from Hydroworks that provides benefits for water quality and water quantity or flow control.

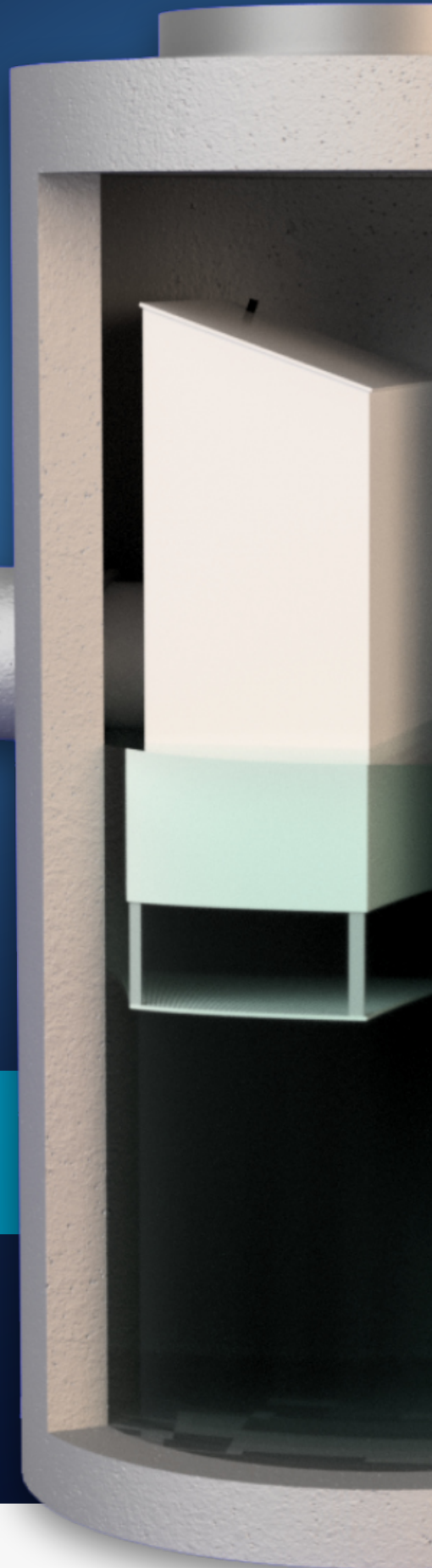
By combining the functions of a separator, hood, and flow control with active storage, HydroDome provides a multipurpose stormwater solution in one structure.

HydroDome efficiently removes oil, trash, and TSS (total suspended solids and their associated heavy metals, nutrients, bacteria) from stormwater runoff.

ETV™ Verified, Canadian-made, and complete with a free sizing program available for download at www.c-i-p.ca.

HYDRODOME IS THE ONLY SEPARATOR TO ACHIEVE 80% TSS REMOVAL WITH ETV™ PARTICLE SIZE DISTRIBUTION

**CONTACT US FOR ALL YOUR
STORMWATER MANAGEMENT NEEDS**
WWW.C-I-P.CA



APPLICATIONS

HydroDome can be used as a stand-alone treatment solution, as part of a treatment train, or as a pre-treatment device for infiltration, underground storage and bio-retention. HydroDome efficiently removes TSS, oil and trash using a siphon; providing flow-control and quality all in one structure.

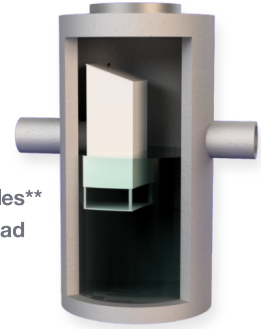
FEATURES

- ▶ Lower cost than most separators
- ▶ Easy to maintain
- ▶ Siphon creates additional storage in the structure
- ▶ Accommodates multiple inlet pipes
- ▶ Can be used as an inlet, bend or junction structure
- ▶ Can have inlet grate

* NJCAT™ 2020, ETV™ Canada 2021

** 99.7% retention of oil/floatables (ETV™ Canada, 2021)

- ▶ Unaffected by tailwater
- ▶ Captures oil spills, TSS, and trash
- ▶ Does not scour TSS*
- ▶ Captures and does not scour floatables**
- ▶ Sizing programs available for download
- ▶ ETV™ Verified, NJCAT™ Verified, NJDEP™ Certified

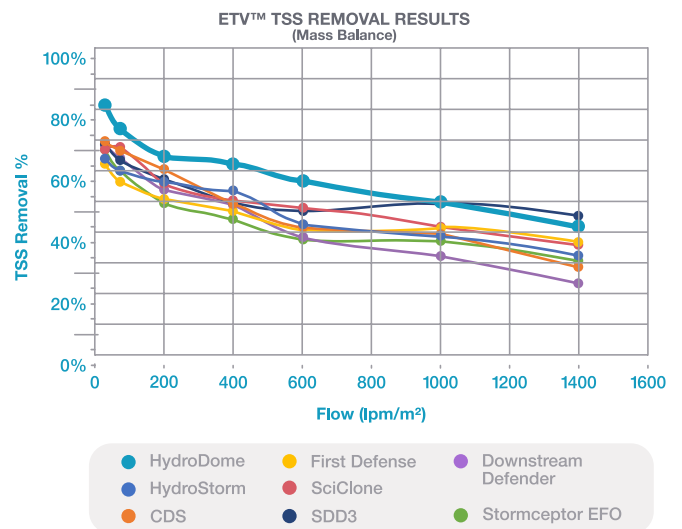


ENGINEERED FOR THE ENVIRONMENT

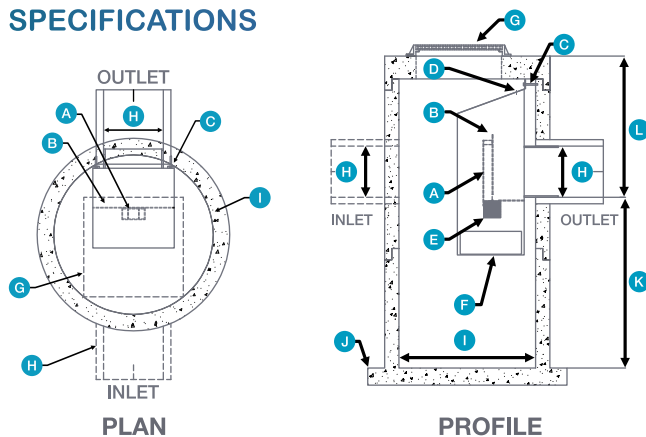
Environmental consciousness is a priority at CIP. We strive to ensure that our products provide innovative solutions to environmental problems – with the data to back it up. HydroDome has been independently tested by Environmental Technology Verification Canada, and awarded with ETV Verification status, and has attained NJCAT (New Jersey Center for Advanced Technology) verification and NJDEP (New Jersey Department of Environmental Protection) certification. Giving you peace of mind today while safeguarding the environment of tomorrow.



UNMATCHED SEDIMENT REMOVAL EFFICIENCY



SPECIFICATIONS



- | | | |
|--------------------------|---------------------------------|-------------------------------------|
| A Siphon | E Foam Debris Screen | I Structure Diameter |
| B Overflow Weir | F Perforated Bottom | J Base Extension |
| C Wall Anchor | G Grate or Cover | K Sump Depth |
| D Air Check Valve | H Inlet and Outlet Pipes | L Invert to Top of Structure |

HYDRODOME DIMENSIONS/CAPACITIES¹

MODEL	DIAMETER (M) I	SUMP DEPTH (M) K	MAX. PIPE (MM) H	TOTAL VOLUME (L)	SPILL VOLUME (L)	SEDIMENT VOLUME (M ³)
HD4	1.2	1.4	600	1600	265	0.7
HD5	1.5	1.7	750	3055	480	1.3
HD6	1.8	2.0	900	5200	800	2.3
HD8	2.4	2.6	1200	12095	1860	5.3
HD10	3.0	3.2	1500	23350	3615	10.4
HD12	3.6	3.8	1800	40030	6220	17.9

NOTES

- Sump depths shown are typical. Additional depth can be added as required.
- Single or multiple inlet pipes allowed.
- Drops allowed.
- Inlet Grate shown. HydroDome can be designed with a closed cover, if required.
- Oil capacities given are spill capacities.
- Sediment depths are maximum holding capabilities and not recommended capacities for regular maintenance.
- Capacities are rounded down to the nearest 5L or 0.1m³
- Minimum rim to top of structure (L) required may vary for HydroDome. Please call CIP for site-specific design questions.
- Hydraulics vary with pipe size and model number. Please call CIP for site-specific headloss calculations.