REMOVING POLLUTION FROM STORMWATER RUNOFF

CDS STORMWATER QUALITY PRODUCTS:

- Can help you meet **any** local regulation in Western Canada
- Achieve **Leadership in Energy and Environmental Design (LEED)** credits
- Are proven with years of performance around the world with approximately **6,500** installations in North America
- Have been certified by third-party agencies such as the **New Jersey Corporation for Advanced Technology (NJCAT)** and the **Washington State Department of Ecology (WA DOE).**

NJCAT is North America's leading stormwater quality product verification agency that includes both **LAB** and **FIELD** data. Our CDS Technologies hydrodynamic separation has achieved the stringent **NJCAT Tier II** designation.

Rainwater Management can help with any municipal, transportation, commercial, or industrial application. Please **call** or **email** anytime for a CDS sizing report or quotation for your project.

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rainwater MANAGEMENT

STORMWATER POLLUTION CONTROL

SUPPLIER OF CDS TECHNOLOGIES BY CONTECH STORMWATER SOLUTIONS INC.

HYDRODYNAMIC SEPARATION with CDS TECHNOLOGIES

CDS OVERVIEW

Using patented Continuous Deflective Separation technology, the CDS system screens, separates, and traps debris, sediment, and hydrocarbons from stormwater runoff. The indirect screening capability of the system allows for 100% removal of floatables and neutrally buoyant material without blinding. Flow and screening controls physically separate captured solids and minimize the re-suspension and release of previously trapped pollutants. Inline units can treat up to 700 l/s and internally bypass flows up to 1500 l/s. Available in precast or cast-in-place, offline units can treat flows up to 8500 l/s. The pollutant removal capacity of the CDS system has been proven in lab and field testing.

DESIGN BASICS

There are three primary methods of sizing a CDS system. The Water Quality Flow Rate Method determines which model size provides the desired removal efficiency at a given flow rate for a defined particle size. The Rational Rainfall Method and Probabalistic Method are used when a specific removal efficiency of the net annual sediment load is required.

Typically in Western Canada, CDS systems are designed to achieve an 80% annual solids load reduction based on lab generated performance curves for a gradation with an average particle size (d50) 75-microns. For some regulatory environments, CDS systems can also be designed to achieve an 85% annual solids load reduction based on an average particle size (d50) of 50-microns.

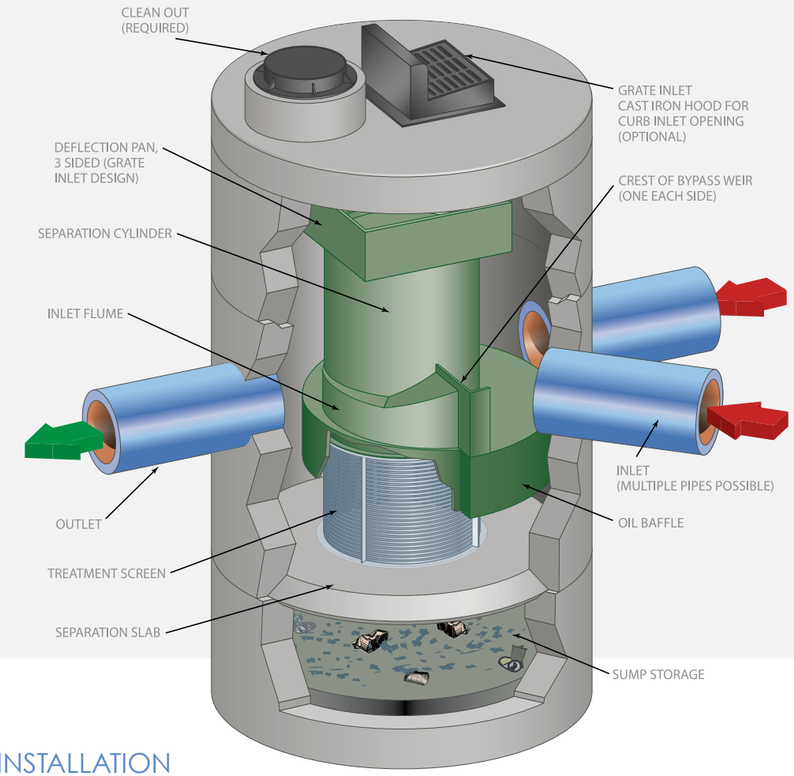
MAINTENANCE

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, construction activity or heavy winter sanding will cause the grit chamber to fill more quickly.

Cleaning of the CDS systems should be done during dry weather conditions when no flow is entering the system. Cleanout of the CDS with a vacuum truck is generally the most effective and convenient method of excavating pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. For trash and other buoyant material a net can be utilized for easy removal of the material.

INSIDE A CDS SEPERATION CYLINDER

- Can be used as bend structure
- Allows for multiple inlet pipes (as shown)
- Can be installed inline or offline
- Grate & curb inlet configurations available (as shown)
- Provides proven removal of solids, oil & grease
- Removes neutrally buoyant pollutants using patented non-blocking screen
- Compact design meets site constraints
- Invert elevations the same. No drop required.



MANUFACTURING + INSTALLATION

- Manufactured in Canada
- Quick approval and manufacturing processes
- Most units do not require a crane for off-loading
- Unobstructed inspection and maintenance

SEE BACK PAGE FOR SIZING AND CONTACT INFO