



# CDS Gross Pollutant Trap



High performance sediment and litter hydrodynamic interceptor

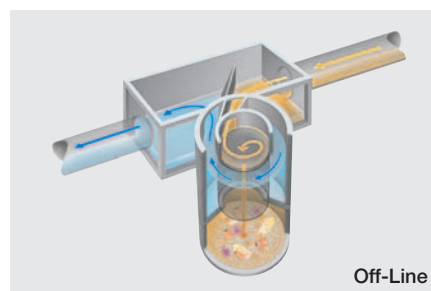
# CDS Gross Pollutant Trap

CDS gross pollutant traps (GPTs) are designed to capture and retain gross pollutants, litter, grit, sediments and associated oils, utilising patented CDS indirect screening technology. The CDS GPT unit is endorsed by the Auckland Regional Council (ARC) as a pre-treatment device that achieves 65% TSS removal.

Only CDS units combine the advantages of having non-blocking functionality, vortex forces and not storing pollution in the screening area.

Precast diversion chambers can be manufactured to suit most typical installations, or chambers can be tailored to meet the hydraulic limitations of the site. CDS units have the lowest cleaning costs of any proprietary GPT because most models offer three cleaning options: a removable basket, material grab and suction method. With no requirement to unblock screens, confined space entry is minimised. Large off-line sump volumes (up to 10m<sup>3</sup> available) also minimise cleaning frequency, reducing maintenance costs over the service life of the structure.

The size and type of CDS GPT required depends on catchment area, flows, pollution loads, performance requirements, maintenance method, hydraulic limitations and site constraints.



## Stormwater Treatment Train



Runoff Capture



CDS Pretreatment



Filtration

## CDS Unit Selection

The following table is for information only and is to be used as a *guide only* for sizing by Engineering Consultants:

CDS Units: Key Characteristics							
CDS Unit	Catchment Areas	Maximum Pipe Sizes	Configuration	Treatment flow rate	Bypass Capacity	Construction Materials	Sump Volume
P0506	< 1 ha	DN 375	In-Line	23 l/s	180 l/s	HDPE / Concrete	0.45m <sup>3</sup>
P0708	< 2 ha	DN 525	In-Line	55 l/s	350 l/s	Precast Concrete	1.29m <sup>3</sup>
P1009	2 – 8 ha	DN 900	In-Line	95 l/s	1,500 l/s	Precast Concrete	2.31m <sup>3</sup>
P1012	4 – 12 ha	DN 1200	Off-Line	140 l/s	Design required	Precast Concrete	2.31m <sup>3</sup>
P1015	6 – 15 ha	DN 1500	Off-Line	180 l/s	Design required	Precast Concrete	2.31m <sup>3</sup>
P1512	8 – 20 ha	DN 1500	Off-Line	220 l/s	Design required	Precast Concrete	4.19m <sup>3</sup>
P2018	15 – 45 ha	Variable	Off-Line	530 l/s	Design required	Precast Concrete	11.06m <sup>3</sup>
P2028	30 – 75 ha	Variable	Off-Line	800 l/s	Design required	Precast Concrete	11.06m <sup>3</sup>
P3018	40 – 100 ha	Variable	Off-Line	810 l/s	Design required	Precast Concrete	10.13m <sup>3</sup>
P3024	60 – 150 ha	Variable	Off-Line	1,250 l/s	Design required	Precast Concrete	10.13m <sup>3</sup>
P3030	80 – 200 ha	Variable	Off-Line	1,750 l/s	Design required	Precast Concrete	10.13m <sup>3</sup>

## Applications

- Commercial developments
- Industrial parks
- Subdivisions
- Residential developments
- Carparks and shopping centres
- Pre-treatment for wetlands & reuse applications, pipes, channels, culverts & creeks

## Standards

Precast components are manufactured to AS/NZS 3109:1998

For further information or advice freephone  
0800 502 112 or visit [www.humes.co.nz](http://www.humes.co.nz)

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