

DATA SHEET

PRETREATMENT

PRODUCT DESCRIPTION : Pretreatment unit with access chimneys for inspection and maintenance

FUNCTION : System that maximizes removal of Total Suspended Solids (TSS), oils and floating debris from surface runoff before it is conveyed to a detention or a retention system.

RAW MATERIALS : Made from high-density polyethylene (HDPE) ASTM D3350

TECHNICAL DATA : Pretreatment unit:

Diameters: 900 mm (36 in) to 1500 mm (60 in)

Lengths : 4 m (13.1 ft) and 6 m (19.7 ft)

Size of particles to control: from very fine sand to very coarse sand (100 microns and over)

Structural strength: CAN/CSA - S6 - 02 (CL-625) and AASHTO (H-25 and HS-25)

Access chimney :

Diameter: 750 mm (30 in)

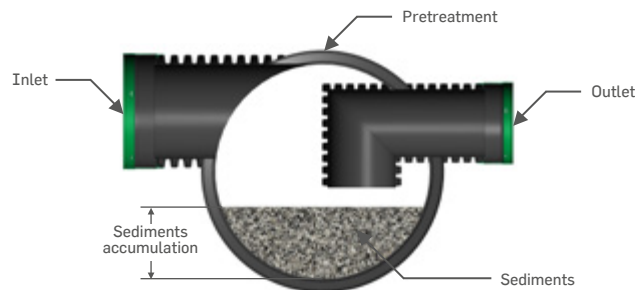
Height: standard of 1 m

Application: non-roadway (corrugated walls)
roadway (smooth walls)



PRETREATMENT
with 1 inlet and 4 outlets

AVAILABLE COUPLERS : Adapts to all types of HDPE, PVC, concrete, steel and CSP pipes.



TECHNICAL DATA TABLES 300 mm (12 in) SYSTEM INLET

| Diameter of the system | | Length of the system | | Diameter of the outlets | | Number of possibles outlets | Amount of sediment | | | | Weight ¹ of the assembly | |
|------------------------|----|----------------------|------|-------------------------|----|-----------------------------|--------------------|-----------------|--------------|------|-------------------------------------|------|
| | | | | | | | Volume | | Accumulation | | | |
| mm | in | m | ft | mm | in | units | m ³ | ft ³ | mm | in | kg | lb |
| 900 | 36 | 4 | 13.1 | 300 | 12 | 2 or 3 | 0.7 | 24.0 | 278 | 10.9 | 370 | 816 |
| 900 | 36 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 1.0 | 35.8 | 278 | 10.9 | 485 | 1069 |
| 1050 | 42 | 4 | 13.1 | 300 | 12 | 2 or 3 | 1.4 | 48.0 | 433 | 17.0 | 345 | 761 |
| 1050 | 42 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 2.0 | 72.0 | 433 | 17.0 | 445 | 981 |
| 1200 | 48 | 4 | 13.1 | 300 | 12 | 2 or 3 | 2.2 | 78.2 | 585 | 23.0 | 420 | 926 |
| 1200 | 48 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 3.3 | 117.4 | 585 | 23.0 | 545 | 1202 |
| 1500 | 60 | 4 | 13.1 | 300 | 12 | 2 or 3 | 4.4 | 153.8 | 882 | 34.7 | 490 | 1080 |
| 1500 | 60 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 6.5 | 230.7 | 882 | 34.7 | 635 | 1400 |

Note 1 : The weights shown in the table are average weights and do not include frames, covers or grates.

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PRETREATMENT (CONT'D)

TECHNICAL DATA TABLES 375 mm (15 in) SYSTEM INLET

| Diameter of the system | | Length of the system | | Diameter of the outlets | | Number of possible outlets | Amount of sediment | | | | Weight ¹ of the assembly | |
|------------------------|----|----------------------|------|-------------------------|----|----------------------------|--------------------|-----------------|--------------|------|-------------------------------------|------|
| | | | | | | | Volume | | Accumulation | | | |
| mm | in | m | ft | mm | in | units | m ³ | ft ³ | mm | in | kg | lb |
| 1050 | 42 | 4 | 13.1 | 300 | 12 | 2 or 3 | 1.3 | 44.8 | 411 | 16.2 | 350 | 772 |
| 1050 | 42 | 4 | 13.1 | 375 | 15 | 2 or 3 | 1.0 | 35.9 | 349 | 13.7 | 355 | 783 |
| 1050 | 42 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 1.9 | 67.2 | 411 | 16.2 | 445 | 981 |
| 1050 | 42 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 1.5 | 53.8 | 349 | 13.7 | 455 | 1003 |
| 1200 | 48 | 4 | 13.1 | 300 | 12 | 2 or 3 | 2.1 | 74.4 | 563 | 22.2 | 420 | 926 |
| 1200 | 48 | 4 | 13.1 | 375 | 15 | 2 or 3 | 1.8 | 64.0 | 502 | 19.8 | 430 | 948 |
| 1200 | 48 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 3.2 | 111.7 | 563 | 22.2 | 545 | 1202 |
| 1200 | 48 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 2.7 | 96.0 | 502 | 19.8 | 560 | 1235 |
| 1500 | 60 | 4 | 13.1 | 300 | 12 | 2 or 3 | 4.2 | 149.1 | 859 | 33.8 | 490 | 1080 |
| 1500 | 60 | 4 | 13.1 | 375 | 15 | 2 or 3 | 3.9 | 136.0 | 798 | 31.4 | 500 | 1102 |
| 1500 | 60 | 6 | 19.7 | 300 | 12 | 2, 3 or 4 | 6.3 | 223.7 | 859 | 33.8 | 640 | 1411 |
| 1500 | 60 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 5.8 | 204.0 | 798 | 31.4 | 650 | 1433 |

Note 1 : The weights shown in the table are average weights and do not include frames, covers or grates.

TECHNICAL DATA TABLES 450 mm (18 in) SYSTEM INLET

| Diameter of the system | | Length of the system | | Diameter of the outlets | | Number of possible outlets | Amount of sediment | | | | Weight ¹ of the assembly | |
|------------------------|----|----------------------|------|-------------------------|----|----------------------------|--------------------|-----------------|--------------|------|-------------------------------------|------|
| | | | | | | | Volume | | Accumulation | | | |
| mm | in | m | ft | mm | in | units | m ³ | ft ³ | mm | in | kg | lb |
| 1050 | 42 | 4 | 13.1 | 300 | 12 | 3 | 1.0 | 33.9 | 334 | 13.1 | 350 | 772 |
| 1050 | 42 | 4 | 13.1 | 375 | 15 | 2 or 3 | 1.0 | 33.6 | 332 | 13.1 | 360 | 794 |
| 1050 | 42 | 6 | 19.7 | 300 | 12 | 3 or 4 | 1.4 | 50.8 | 334 | 13.1 | 440 | 970 |
| 1050 | 42 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 1.4 | 50.4 | 332 | 13.1 | 450 | 992 |
| 1200 | 48 | 4 | 13.1 | 300 | 12 | 3 | 1.7 | 61.4 | 487 | 19.2 | 425 | 937 |
| 1200 | 48 | 4 | 13.1 | 375 | 15 | 2 or 3 | 1.7 | 61.2 | 485 | 19.1 | 430 | 948 |
| 1200 | 48 | 6 | 19.7 | 300 | 12 | 3 or 4 | 2.6 | 92.2 | 487 | 19.2 | 545 | 1202 |
| 1200 | 48 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 2.6 | 91.7 | 485 | 19.1 | 550 | 1213 |
| 1500 | 60 | 4 | 13.1 | 300 | 12 | 3 | 3.8 | 132.9 | 783 | 30.8 | 495 | 1091 |
| 1500 | 60 | 4 | 13.1 | 375 | 15 | 2 or 3 | 3.8 | 132.5 | 781 | 30.7 | 505 | 1113 |
| 1500 | 60 | 4 | 13.1 | 450 | 18 | 2 or 3 | 3.3 | 116.7 | 708 | 27.9 | 515 | 1135 |
| 1500 | 60 | 6 | 19.7 | 300 | 12 | 2 or 4 | 5.6 | 199.4 | 783 | 30.8 | 535 | 1179 |
| 1500 | 60 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 5.6 | 198.7 | 781 | 30.7 | 645 | 1422 |
| 1500 | 60 | 6 | 19.7 | 450 | 18 | 2, 3 or 4 | 5.0 | 175.0 | 708 | 27.9 | 655 | 1444 |

Note 1 : The weights shown in the table are average weights and do not include frames, covers or grates.

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PRETREATMENT (CONT'D)

TECHNICAL DATA TABLES 525 mm (21 in) SYSTEM INLET

| Diameter of the system | | Length of the system | | Diameter of the outlets | | Number of possible outlets | Amount of sediment | | | | Weight ¹ of the assembly | |
|------------------------|----|----------------------|------|-------------------------|----|----------------------------|--------------------|-----------------|--------------|------|-------------------------------------|------|
| | | | | | | | Volume | | Accumulation | | | |
| mm | in | m | ft | mm | in | units | m ³ | ft ³ | mm | in | kg | lb |
| 1200 | 48 | 4 | 13.1 | 375 | 15 | 2 or 3 | 1.4 | 48.3 | 407 | 16.0 | 435 | 959 |
| 1200 | 48 | 6 | 19.7 | 300 | 12 | 4 | 2.1 | 72.9 | 409 | 16.1 | 550 | 1213 |
| 1200 | 48 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 2.1 | 72.5 | 407 | 16.0 | 565 | 1246 |
| 1500 | 60 | 4 | 13.1 | 375 | 15 | 2 or 3 | 3.3 | 115.8 | 704 | 27.7 | 505 | 1113 |
| 1500 | 60 | 4 | 13.1 | 450 | 18 | 2 or 3 | 3.3 | 114.7 | 698 | 27.5 | 520 | 1146 |
| 1500 | 60 | 4 | 13.1 | 525 | 21 | 2 or 3 | 3.0 | 104.8 | 652 | 25.7 | 540 | 1190 |
| 1500 | 60 | 6 | 19.7 | 300 | 12 | 4 | 5.0 | 174.4 | 705 | 27.8 | 645 | 1422 |
| 1500 | 60 | 6 | 19.7 | 375 | 15 | 2, 3 or 4 | 5.0 | 173.7 | 704 | 27.7 | 655 | 1444 |
| 1500 | 60 | 6 | 19.7 | 450 | 18 | 2, 3 or 4 | 4.9 | 172.0 | 698 | 27.5 | 670 | 1477 |
| 1500 | 60 | 6 | 19.7 | 525 | 21 | 2, 3 or 4 | 4.5 | 157.2 | 652 | 25.7 | 700 | 1543 |

Note 1 : The weights shown in the table are average weights and do not include frames, covers or grates.

TECHNICAL DATA TABLES 600 mm (24 in) SYSTEM INLET

| Diameter of the system | | Length of the system | | Diameter of the outlets | | Number of possible outlets | Amount of sediment | | | | Weight ¹ of the assembly | |
|------------------------|----|----------------------|------|-------------------------|----|----------------------------|--------------------|-----------------|--------------|------|-------------------------------------|------|
| | | | | | | | Volume | | Accumulation | | | |
| mm | in | m | ft | mm | in | units | m ³ | ft ³ | mm | in | kg | lb |
| 1500 | 60 | 4 | 13.1 | 375 | 15 | 3 | 2.9 | 101.3 | 635 | 25.0 | 510 | 1124 |
| 1500 | 60 | 4 | 13.1 | 450 | 18 | 2 or 3 | 2.9 | 100.1 | 630 | 24.8 | 520 | 1146 |
| 1500 | 60 | 4 | 13.1 | 525 | 21 | 2 or 3 | 3.0 | 106.9 | 662 | 26.1 | 540 | 1190 |
| 1500 | 60 | 4 | 13.1 | 600 | 24 | 2 or 3 | 2.5 | 86.9 | 567 | 22.3 | 560 | 1235 |
| 1500 | 60 | 6 | 19.7 | 300 | 12 | 4 | 4.3 | 152.5 | 637 | 25.1 | 645 | 1422 |
| 1500 | 60 | 6 | 19.7 | 375 | 15 | 3 or 4 | 4.3 | 151.9 | 635 | 25.0 | 655 | 1444 |
| 1500 | 60 | 6 | 19.7 | 450 | 18 | 2, 3 or 4 | 4.3 | 150.2 | 630 | 24.8 | 670 | 1477 |
| 1500 | 60 | 6 | 19.7 | 525 | 21 | 2, 3 or 4 | 4.5 | 160.4 | 662 | 26.1 | 700 | 1543 |
| 1500 | 60 | 6 | 19.7 | 600 | 24 | 2, 3 or 4 | 3.7 | 130.3 | 567 | 22.3 | 725 | 1598 |

Note 1 : The weights shown in the table are average weights and do not include frames, covers or grates.

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PRETREATMENT (CONT'D)

TECHNICAL DATA TABLES 750 mm (30 in) SYSTEM INLET

| Diameter of the system | | Length of the system | | Diameter of the outlets | | Number of possible outlets | Amount of sediment | | | | Weight ¹ of the assembly | |
|------------------------|----|----------------------|------|-------------------------|----|----------------------------|--------------------|-----------------|--------------|------|-------------------------------------|------|
| | | | | | | | Volume | | Accumulation | | | |
| mm | in | m | ft | mm | in | units | m ³ | ft ³ | mm | in | kg | lb |
| 1500 | 60 | 4 | 13,1 | 450 | 18 | 3 | 2,0 | 68,8 | 477 | 18,8 | 530 | 1168 |
| 1500 | 60 | 4 | 13,1 | 525 | 21 | 2 ou 3 | 2,1 | 75,1 | 509 | 20,0 | 550 | 1213 |
| 1500 | 60 | 4 | 13,1 | 600 | 24 | 2 ou 3 | 2,1 | 75,0 | 508 | 20,0 | 570 | 1257 |
| 1500 | 60 | 6 | 19,7 | 375 | 15 | 4 | 3,0 | 104,7 | 483 | 19,0 | 670 | 1477 |
| 1500 | 60 | 6 | 19,7 | 450 | 18 | 3 ou 4 | 3,0 | 103,2 | 477 | 18,8 | 685 | 1510 |
| 1500 | 60 | 6 | 19,7 | 525 | 21 | 2, 3 ou 4 | 3,2 | 112,7 | 509 | 20,0 | 710 | 1565 |
| 1500 | 60 | 6 | 19,7 | 600 | 24 | 2, 3 ou 4 | 3,2 | 112,5 | 508 | 20,0 | 735 | 1620 |

Note 1 : The weights shown in the table are average weights and do not include frames, covers or grates.

GENERAL NOTES :

Note 1 : Values in the table are approximate and may change without notice.

Note 2 : Pretreatments of 4 m (13.1 ft) are equipped with one access chimney and pretreatments of 6 m (19.7 ft) are equipped with two access chimneys. An access chimney may be with corrugated exterior wall with standard cast iron frame and cover (non-roadway use) or with smooth exterior wall with adjustable cast iron frame and cover (roadway use).

Note 3 : The pretreatment outlets connect to the retention chambers and to the diffuser. The maximum connection diameters to the various chambers are the followings:

- HydroStor HS75 : 600 mm (24 in) using the adapter
- HydroStor HS180 : 750 mm (30 in) using the adapter
- StormChamber : 750 mm (30 in) using the adapter
- EcoChamber : 375 mm (15 in) using the adapter

Note 4 : The different pretreatment configurations found in the tables make it possible to collect the recommended amount of sediment. By configuration, we speak of the pretreatment length, the inlet diameter, the outlet(s) diameter and the number of outlets.

APPLICATION : Control of TSS, oils and floating debris using settling
Storm water sewer
Storage
Pretreatment

OPTION : Custom chimney height
Adjustable cast iron frame and cover