



BEACON

WATER
TECHNOLOGIES

Pile Cloth Disk Filtration Systems

GDisk® Models

Available in four different models, all offered in concrete and package steel (304SS, 316SS, or painted carbon)

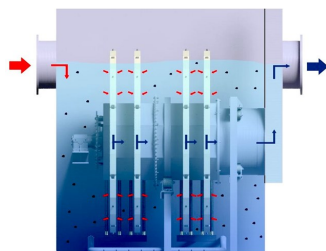


Model	Disk Diameter	Max Capacity Unit*	Segments/Disk	Max # Disks/Unit
GDisk®-Giant	9.8 ft (3.0 m)	25.4 MGD	8	24
GDisk®-Standard	7.2 ft (2.2 m)	12.7 MGD	6	24
GDisk®-Mini	3.9 ft (1.2 m)	2.06 MGD	4	14
GDisk®-XS	3.0 ft (0.9 m)	0.36 MGD	4	6

*at 6.5 gpm/ft²

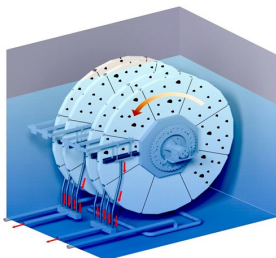
GDisk® Operation Mode

FILTRATION



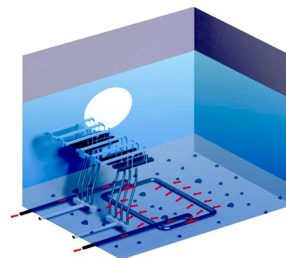
- Pass through media by gravity
- Removing Solids accumulated on the disk surface, forming a mat
- Filtered water flow through from the inside of center tube to the outlet

BACKWASH



- Operated by level switch or timer
- Low pressure suction on the front and back side of the pile cloth disk
- Non-stop filtration during backwash

SLUDGE DISCHARGE

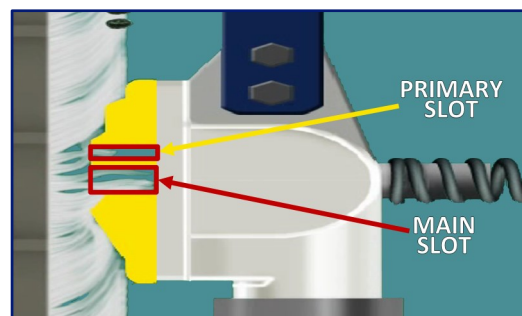


- Sludge sediments on the bottom
- Automatic discharge of bottom sludge
- Flexible response to incoming shock load

Floating scum is evacuated into a dedicated trough for primary and wet weather application models.

Dual-Slot Backwash Manifold

- A main slot and a primary slot are provided in parallel by a partition
- Pile threads undergo delayed straightening and fluctuation while going through the primary slot. The main slot then straightens pile threads rapidly
- This patented dual-slot backwash manifold increases backwash efficiency and minimize backwash water volume



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Since 2009, GDisk® Pile Cloth Disk Filters continue to reliably remove solids over a broad range of particle sizes and increased hydraulic or solids loading. Turbidity and concentrations of suspended solids, phosphorus, and other contaminants are all efficiently reduced by GDisk®. Numerous applications include tertiary, industrial, wet weather, and primary treatment, as well as for phosphorus removal and water reuse.

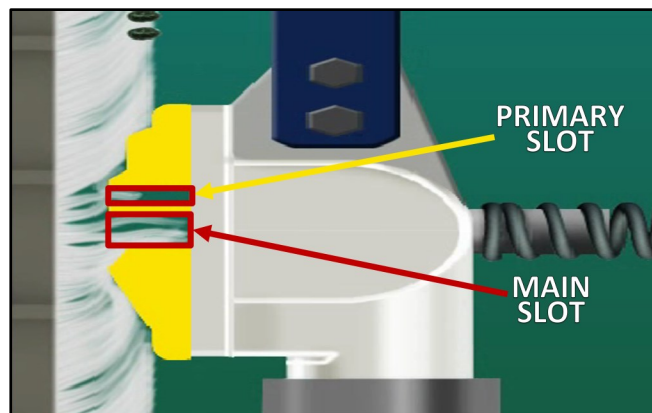


GDisk® filter disk are available in four different models, all offered in package steel (304SS, 316SS, or painted carbon steel). The GIANT, STANDARD, and MINI models may also be installed in concrete tankage. GIANT model disks are 9.8 ft diameter with a system capacity of 13.2 MGD per unit; STANDARD—7.2 ft Ø and 6.6 MGD; MINI—3.9 ft Ø and 0.60 MGD; and XS—3.0 ft Ø and 0.38 MGD.

Influent water filters through the GDisk® pile cloth, passes from the disk interior to the center tube, and out over an effluent weir. As solids are captured within the pile, GDisk® automatically backwashes at a set water level or timed interval. Solids are wasted via the patented GDisk® backwash manifold (see below) or a tank bottom sludge collector. Floating scum is evacuated into a dedicated trough for primary and wet weather application models.

GDisk's patented double-slot backwash manifold is manufactured with a primary and main slot. These slots are partitioned to improve backwash versus a single slot design. While moving through the primary slot, the pile cloth threads undergo delayed straightening and fluctuation, then are instantaneously straightened in the main slot. Once past the main slot, the pile is laid back down in random orientation by the manifold.

The primary slot prepares the pile cloth for enhanced cleaning in the main slot, perhaps similar to a throttled jet prior to release off a carrier. The result is reduced backwash volumes and increased water recovery as compared to legacy manifold designs.



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