DUPERON®

DUAL AUGER SYSTEM

DUPERON'S SOLUTION TO WIPES

A new alternative to grinders and chopper pumps in the collection system and plant headworks.

Operators no longer have to compromise between manually cleaning clogged pumps or using maintenance-intensive grinders that send debris downstream only to re-weave and become problematic again. Our simple 5 in 1 Dual Auger System captures, dewaters, compacts, conveys and stores non-dissolvable screenings while keeping organics in the collection system.

THE DUPERON DIFFERENCE

DRASTICALLY REDUCES CLOGGED PUMPS

SIMPLE 5 IN 1 SYSTEM

- *capture, dewater, compact, convey and stores screenings all with one piece of equipment*

ADDRESSES THE PROBLEM AT ITS SOURCE

- *deployed at high-ragging sites experiencing pump clogging to remove problematic debris before downstream equipment can be impacted*

COMPACT FOOTPRINT

- *can be installed in manhole & wetwell applications as small as 17 inches*

ELIMINATES EMERGENCY MAINTENANCE

- *replaces it with planned & infrequent pickups*

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HOW IT WORKS

The patented Dual Auger System is positioned in a wetwell or manhole to catch the falling waste stream from the inlet pipe. The screening unit is comprised of two vertical counter-rotating augers driven by an electric motor. The motor is completely sealed in the upper housing. The Dual Auger System is fully submersible.

There is an overflow bypass opening ahead of the screening unit. The vertical bar screen has a .71 inch bar opening with other size options available. As screenings are captured, a discharge chute extends vertically to compact, dewater, lift, and store debris, without additional augers required. The solids are held in the chute or discharged into a bin, fully contained for odor control and aesthetics. Debris management is simple, with planned and infrequent pickups to dispose of solids.

THREE PROVEN DUPERON
TECHNOLOGIES

Using three of its proven technologies, Duperon has created a simple mechanical solution that removes the problem where it starts.

> Positive displacement dual augers
>
> Brushless self-cleaning
>
> Compaction & transportation using the Discharge Extension Option

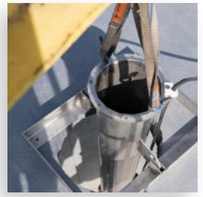
USACE DEFINITION OF
RESILIENCE

Resilience is the ability to **ANTICIPATE**, **PREPARE** for and **ADAPT** to changing conditions and **WITHSTAND**, **RESPOND** to, and **RECOVER** rapidly from disruptions.

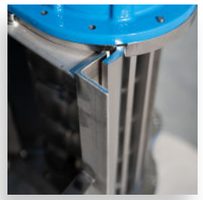
(Executive Order 13563)

> The Dual Auger System restores systemwide resilience by removing non-dissolvable solids at (or near) the point they enter the collection system, allowing the entire collection and waste treatment plant to operate as designed, unimpeded by wipes. This eliminates system vulnerability and replaces it with simple, planned disposal.

Eliminates confined space entries



1
SIMPLE ANCHORING
Options at top or just beneath manhole



2
EASY INSTALL
No guides or rails needed for installation, simple connect or disconnect

3
NO ADDITIONAL AUGERS REQUIRED
The dual auger's positive displacement dewaters and moves debris up the chute with no additional augers in the chute

4
DESIGNED FOR DUTY
The sealed motor is fully submersible

5
ELIMINATES EMERGENCIES
Chute provides storage with infrequent planned pickups

6
BACKUP PREVENTION
Built in bypass doesn't charge the sewer

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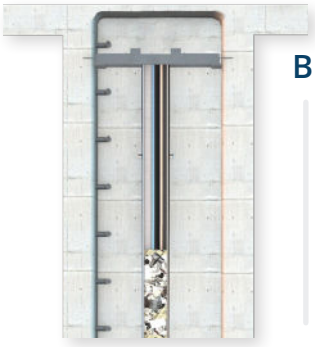
DISCHARGE OPTIONS



BELOW DECK DISCHARGE

Chute stops below deck. Chute is emptied by opening hatch/lift manhole cover and inserting vacuum truck nozzle into discharge chute to remove debris.

ON DECK DISCHARGE

Chute extends above deck. Discharges horizontally into an adjacent bin. Bagger and freeze protection options are available.

FREEZE PROTECTION

- *Thermal protection from cold temperatures with heat blanket and integral heat trace*

BAGGER:

- *Attaches to discharge chute to contain screenings for odor control and simple debris management*

PRODUCT DATA

APPLICATION SIZE	*Designed to fit manholes as small as 17 inches. Max influent pipe size: 16 inches*
CAPACITY	*1.5 mgd (1,042 gpm) average continuous flow* *5.0 mgd (3,472 gpm) for short bursts, under 2 minutes*
MAIN UNIT DIMENTIONS	*16 inches wide x 17 inches deep x 37 inches tall*
BAR SCREEN	*0.71 inch opening, 0.38 inch x 1.00 inch bar*
MATERIAL OF CONSTRUCTION	*304 SSTL*
TYPICAL MOTOR	*½ hp 230/460 VAC/3ph explosion proof, non-ventilated. Fully submersible*
STANDARD CONTROLS	*Stand alone weatherproof VFD, padlock security and speed control. Custom panel options are available*
DISCHARGE EXTENSION CHUTE	*Captures, dewaters, compacts, conveys and stores screenings up to 40 feet vertically*
INSTALLATION	*Install inlet pipe adapter with four (4) ½ inch concrete anchors. Use a small crane or portable gantry to lower unit down. Align trough to pipe adapter. Support discharge chute at deck level with four (4) ½ inch concrete anchors. No guides or rails required.*
APPLICATIONS	• *Wetwells* • *Nursing homes* • *Septage receiving* • *Industrial applications* • *Manholes* • *Hospitals* • *Package plants* • *Campgrounds* • *Municipal headworks* • *Lift stations* • *Prisons* • *Truck stops* • *Other high solids loading applications*

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