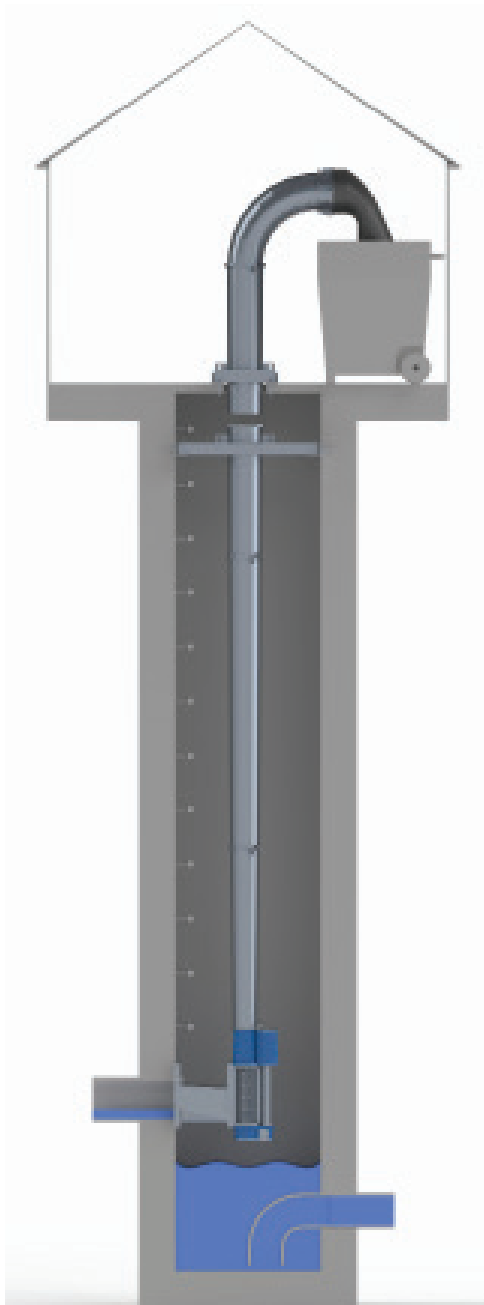


Imagine removing wipes before a small problem becomes a BIG problem



Patent Pending

Introducing the Dual Auger System - A Solution for Flushable Wipes

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 design uses three proven Duperon technologies to capture and remove rags and other pump-fouling debris while keeping organics in the collection system.

- Drastically reduces clogged pumps
- Extended Discharge Chute compacts, stores and transports screenings up to 40 feet vertically without additional augers/mechanics
- Removes wipes at or near point of entry before they can impact downstream equipment
- Ideal for small lift stations and wet wells; compact design fits into manhole applications
- Screenings are completely contained for odor control and aesthetics
- Above and below grade discharge options
- Reliable; built-in bypass eliminates sewer backups during power outages
- Minimal maintenance
- Fully submersible

Alpha Testing Snapshot: Drake Pump Station, Saginaw, MI

Flow: 0.1 MGD
Configuration:
26 ft vertical discharge chute + 100 degree elbow

For more than four months, Duperon has been alpha testing a solution to clogging caused by flushable wipes at the City of Saginaw, MI. Prior to installation, the City was servicing the lift station's clogged pumps two to three times a week with two operators spending four hours in a confined space, manually removing rags. **Since installing the Duperon equipment, the City has had zero instances of clogged pumps.**

After 68 days of run-time, the screenings in the Discharge Extension Chute were nine feet of a total 26-foot capacity. The compaction ratio is estimated to be approx 4:1 and would pass the paint filter test. The Duperon R&D team

estimates that debris will exit the discharge chute after six and a half months operating time, **eliminating the need for the City of Saginaw to handle any debris during the alpha test period.**



POTENTIAL cost savings

Annual Labor Savings \$40,772

$\$32.67^* \times 2 \text{ people} \times 4 \text{ hours each} \times 3x/\text{week} \times 52 \text{ weeks/yr}$

Annual Transportation Savings \$842

$10 \text{ miles r/t to site} \times 3x \text{ per week} \times \$.54 / \text{mi} \times 52 \text{ weeks}$

Total Annual Maintenance Savings \$41,614

Added value: giving back 1,248 productive hours annually

*Median Fully-loaded Wastewater Operator Rate for MI Great Lakes Bay Region

GENERAL

A unit designed to protect pumps from fouling by removing the majority of rags, wipes and other solids found in collection systems. The solids are held in a container or chute until manually emptied, then transported and landfilled.

ORIENTATION

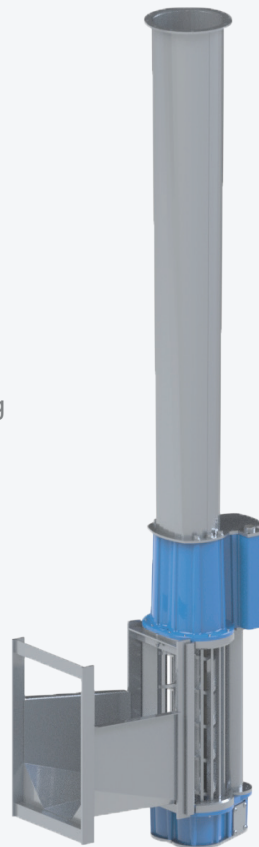
Supported from the surface by the discharge chute (no rails or guides required). At the bottom of the chute the screening unit is positioned to catch the falling water stream from an inlet pipe in a wet well or manhole. The screening unit is comprised of two vertical counter-rotating augers driven by an electric motor. The vertical bar screen has a standard .8" spacing with other options available. An overflow/bypass opening is ahead of the screening unit.

SIZE

Designed to fit into 17" manhole applications. Discharge chute up to 40 ft vertically to reach grade level.

CAPACITY

Up to 1.5 MGD (1,042 gpm) average continuous flow; 5 MGD for short bursts (< 2 minutes)



TYPICAL MOTOR

1/2 HP, 230/460 VAC/3ph explosion proof; non-ventilated

UTILITY

120/240 VAC/1ph or 230/460 VAC/3ph
Up to 2 amps wired for low voltage

MATERIALS OF CONSTRUCTION

304 SSSL: augers, bars, chute
Class 35 grey iron, Tnemec coated: castings

CONTROLS

Single panel with VFD, with fault light.
Operation indicator. Pad lock disconnect

WEIGHT

Empty: 400-700 lbs (depending on length of chute)
Full: 2,000-6000 lbs (depending on length of chute)

INSTALLATION

Typical: install inlet pipe adapter with four 1/2" concrete anchors. A small crane or portable gantry used to lower unit down. Deck support: four 1/2" concrete anchors.



ADAPTIVE TECHNOLOGY™