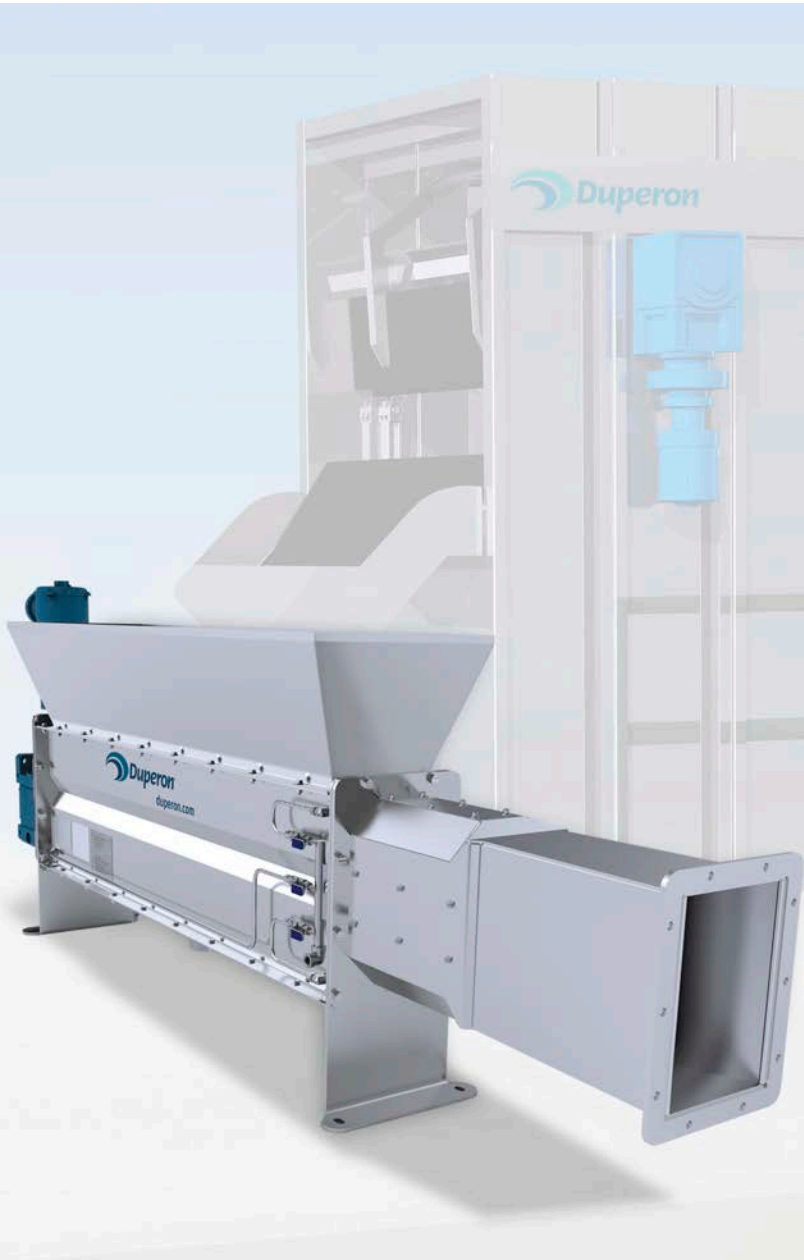


## WASHER COMPACTOR

Positive Displacement, Dual-Auger System



### Self-Regulating Compaction Provides a Reliable, No-Hassle Way to Reduce Landfill Costs

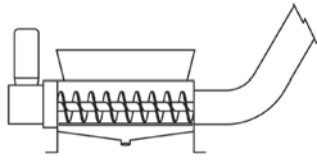
Robustly simple, high-efficiency, non-batching process machine that cleans and compacts screenings up to 4 inches. Standard discharge lengths up to 20 feet.

- Consistent Compaction Regardless of Debris Size or Volume (Using Proprietary Compaction Zone\*)
- Positive Displacement: What Goes In, Comes Out
- Up To 84% Volume Reduction, Up To 60% Dry Solids
- Processes Non-Standard Wastewater Debris (Rocks, Clothing, Concrete, Metal) up to 4 inches
- Self-Centering Dual Augers Prevent Debris Wrapping
- Housing Geometry Controls Potential for "Slip Flow" When Handling Grease, Septage and Similar Debris
- Non-Clogging Flood Wash Port: Ideal For Non-Potable Water

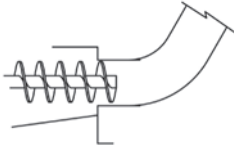
# THE DUPERON® WASHER COMPACTOR VS. OTHER MANUFACTURERS

## OTHER WASHER COMPACTORS

## DUPERON® WASHER COMPACTOR



**Fixed Reduction Compaction**



Dependent on friction, debris volume and type

**RESULT:** inconsistent dry solids

**Single Screw**

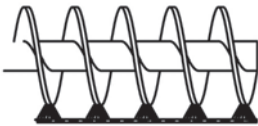


Debris falls & if it can move along the flight, it is dragged forward

Prone to sticking & then rotating w/auger (not driving forward) OR wrapping & overflowing hopper, churning, slipflow

**RESULT:** overflowing or wrapped debris not driven forward

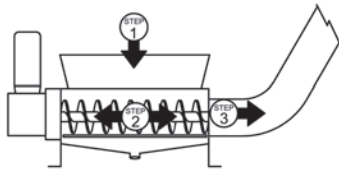
**BRUSHES**



High maintenance & inconsistent performance

Expensive, potentially labor intensive, requires replacement of parts

**BATCHING**



Debris is stored in hopper during batch cycle

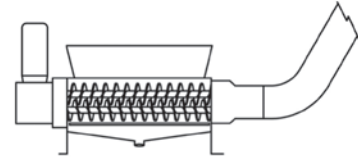
Can have odor issues

**AGITATION**

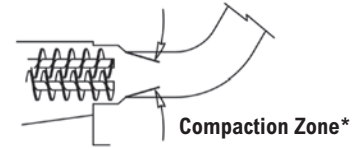
Large motor/gearbox & batch times

Complexity of controls

Maintenance, energy, storage & possible overflow



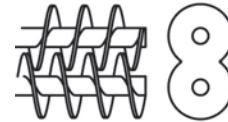
**Controlled Reduction**



Depends on mechanical device that controls compaction regardless of size & volume

**RESULT:** consistent dry solids

**Dual Auger**



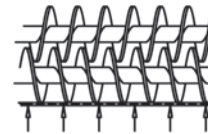
Positive displacement (like meat grinder) counter rotation

Flights prevent wrapping and slipflow (The flight of one auger continuously interrupts the debris wrapping on the other auger)

Two small augers = less HP, more energy efficient, stretches and stresses debris without chopping or grinding

**RESULT:** what goes in must go out

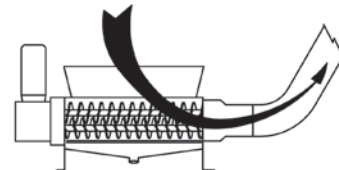
**STRAINER – No Brushes**



Self-cleaning strainer as a result of maintained auger contact

Non-clogging, durable & non-wearing

**CONTINUOUS FLOW NON-BATCHING**



Continuous screen operation

Immediate processing of debris for low odor

Low HP = Low energy requirement

**SATURATE – WRING**

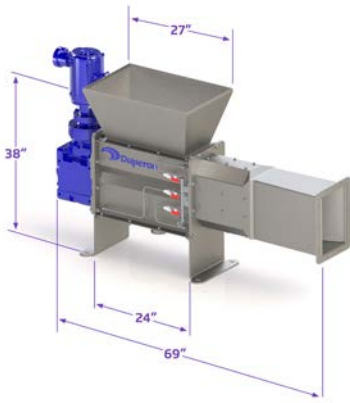
Consistent high-pressure throughout system

Wash ports – flood vs. high maintenance fine spray nozzles

Wash ports located prior to compaction so debris is not forced into nozzle openings

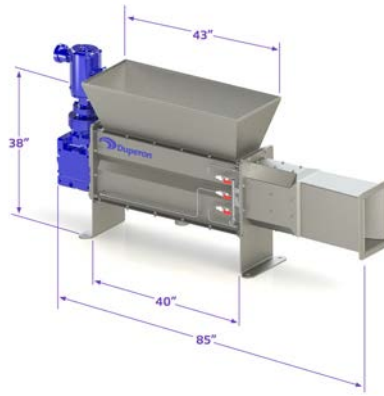
No Splashing

# DUPERON® WASHER COMPACTOR CONFIGURATIONS AND APPLICATIONS



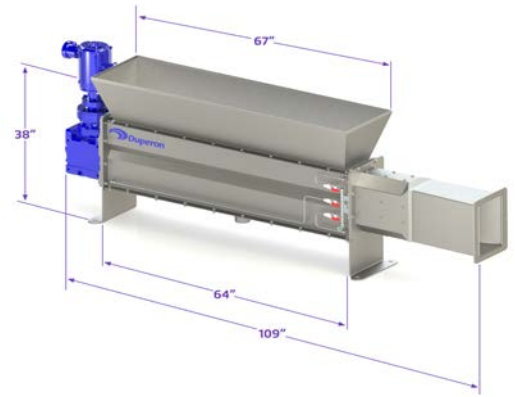
**WC BODY 1**

- ¾ HP Motor typical
- For bar screens up to 2' wide
- Ideal for FlexRake® Low Flow units
- Generally for flows less than 15MGD



**WC BODY 2**

- ¾, 3, 5 HP motors
- For bar screens 2' to 6' wide
- Flows up to 60 MGD
- 3 and 5 HP conveyor-fed and Industrial applications



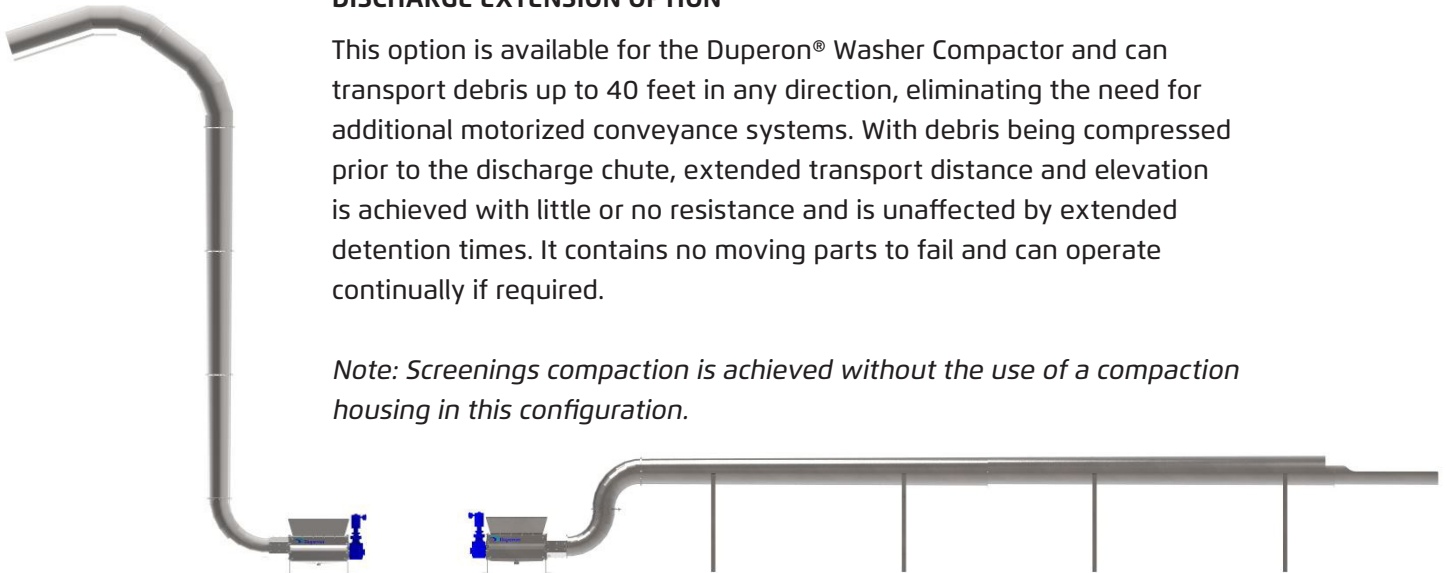
**WC BODY 3**

- ¾, 3, 5 HP motors
- For bar screens 5' to 10' wide
- Flows up to 100 MGD
- 3 and 5 HP conveyor-fed and Industrial applications

## DISCHARGE EXTENSION OPTION

This option is available for the Duperon® Washer Compactor and can transport debris up to 40 feet in any direction, eliminating the need for additional motorized conveyance systems. With debris being compressed prior to the discharge chute, extended transport distance and elevation is achieved with little or no resistance and is unaffected by extended detention times. It contains no moving parts to fail and can operate continually if required.

*Note: Screenings compaction is achieved without the use of a compaction housing in this configuration.*



## WATER

- Utilizes filtered effluent or municipal water
- Washer consumes 3-10 gallons per minute
- Requires 40 PSI-60 PSI
- Drain connection 3" NPT
- Supply connection 1/2" NPT

## UTILITY

- 120/240 volt, single phase
- 240/480 volt, three phase (0.6 kW/2.3 kW/3.8kW)

## DRIVE

¾ HP, 3 HP, 5 HP inverter duty motors available

## MATERIALS OF CONSTRUCTION

- 304 SSSL or 316 SSSL
- SSSL spur gears (17 - 4 PH)
- Self-lubricating main auger bearings

## TYPICAL PERFORMANCE

- 30% - 60% dry solids
- 60% - 70% weight reduction
- Significantly decreases odor and fecal content

## CAPACITY

Available from: 30 ft<sup>3</sup>/hour to 150 ft<sup>3</sup>/hour

## MAINTENANCE

Five years: Recommended gearbox service

# DUPERON® WASHER COMPACTOR ACCESSORIES

**BAGGER:** The Bagger System attaches to the discharge chute for applications where bag dispensing and odor control are required. Included is a 100 meter length of continuous feed bags.

**SPECIFICATIONS:**

LATCH AND HOLDER: 304 SS or 316 SSSL

BAG: 1.3 mil Polyethylene

BAG SIZE: 22" Diameter x 295 ft. length



**DROP SLEEVE:** This flexible Drop Sleeve is an economical way to direct and contain downward debris discharge. Also used where waste container hauling may cause damage to metal discharge chutes.

**SPECIFICATIONS:**

LATCH AND HOLDER: 304 SS/316 SSSL

SLEEVE: Heavy Duty Urethane Canvas



**ACCESS CHUTE:** In applications that involve periodic inspection of discharging solids, the Access Chute with inspection panel is available in modular segments, installed as needed in the discharge chute system.

**SPECIFICATIONS:**

CHUTE: 14 ga. 304/316 SSSL

FLANGES: 1/4"

DRAW TYPE LATCHES:Hinged and Latched or Latched Both Sides



**CASTER ASSEMBLY:** Optional casters allow for flexible placement of the Washer Compactor and simple movement of the unit.

**SPECIFICATIONS:**

CASTERS: Urethane Wheels, 304/316 SSSL

FRAME: 2x2x1/4 Tubular, 304/316

LOCKING CASTERS

EXPLOSION PROOF ELEC. DISCONNECT



**HEAT BLANKET:** The Compaction Zone and discharge chute can be thermally protected from cold temperatures with the addition of the Heat Blanket with integral heat trace.

**SPECIFICATIONS:**

EXPLOSION PROOF HEAT TRACE SYSTEM

(All connections NEMA 7/9)

10 W/FT = 600 w max., 120V

HARD CONTACT THERMOSTAT (NEMA 7/9)

INSULATED BLANKET: All Weather Teflon



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