

## J+A Washpactor-Wave™ Technology

The Screenings Washing System

### Key features & benefits

- Proven technology for raw sewage screening
- Cannot overload on fecal matter
- Range of capacities up to 18m<sup>3</sup> / hr
- Stainless steel construction

### How we create value

- Design flexibility through interchangeability of standard models
- Thorough screenings washing and dewatering allows safer handling and disposal of waste product



## J+A Washpactor-Wave™ Technology



### Benefits and Features

- Suitable for inlet works
- Compatible with both launders and conveyor feed systems
- Essential equipment when fine screens are to be used
- Returns fecal solids back to the flow for biological treatment
- High BOD (Biochemical Oxygen Demand) reductions
- Proven performance
- Available in six sizes
- Optional configurations to optimize efficiency



### How It Works

Waste solids collected by screening are discharged into a launder or conveyor that feeds into the J+A Washpactor-Wave™ system (If a conveyor is used, then water must be added to the wash tank separately). Impeller motors generate a high level of turbulence inside the wash tank, which breaks down and liquefies fecal matter and any other soft solids present in the screened debris. Water and washed solids then spill over from the wash tank into a channel leading to the built-in screw compactor.

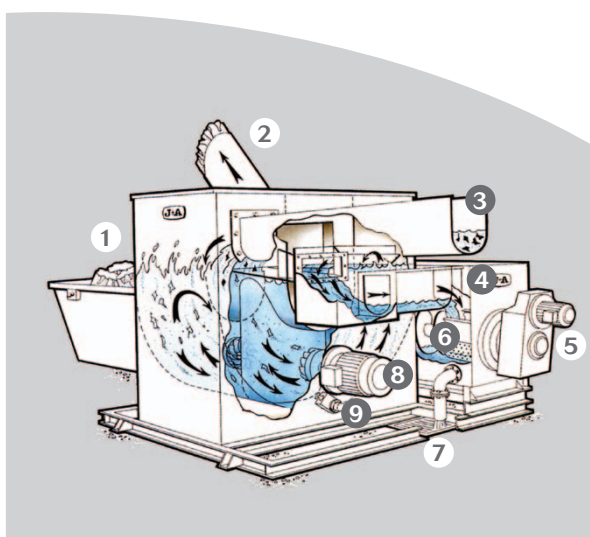
The screw-compactor is housed in a perforated U-trough which acts as a fine screen to drain off the dirty washing water. Solids are retained and rinsed with clean water to eliminate any of the dirty wash water that remains.

Cleaned solids are then conveyed to the dewatering and compaction section of the machine via an inclined chute: this provides sufficient back pressure to ensure the satisfactory dewatering of the material.

### Capacities

The Washpactor-Wave system is available in a variety of sizes to suit our clients' purposes, and can be installed for single-duty, duty-standby or duty-assist. For particularly high volumes, multiple Washpactor-Wave machines may be required, or a single machine for each individual screen. Ovivo's product range is extremely flexible and a Washpactor-Wave solution is available for any sewage-screening plant.

The capacities stated in the table assume a near-continuous flow from the screening equipment. In cases where the screening systems are at rest for long periods, with large single-raking mechanisms, it may be necessary to use a Washpactor-Wave unit with a higher capacity to handle large, intermittent loading. Please contact Ovivo for our recommendations of the Washpactor-Wave system to suit your requirements.



- |  |                                    |
|--|------------------------------------|
| 1. Wash Tank   | 5. Compactor drive motor           |
| 2. Washed screenings outlet chute                              | 6. Perforated trough outlet chute  |
| 3. Screened product into washpactor washed launder or conveyor | 7. Process water drain             |
| 4. Dewatering screw compactor                                  | 8. High speed impeller drive motor |
|  | 9. Tank drain                      |

Washpactor-Wave™ size options	Maximim capacity (m <sup>3</sup> / hr of screened solids)
1	1.2
2	2.4
3	4.0
4	6.0
5	9.0
6	18.0



## EWT<sup>™</sup> Stone Trap<sup>™</sup> Systems

Sewage screens remove heavy debris including rocks, stones and grit. These solids are extremely abrasive to the mechanical components of the Washpactor-Wave unit. Ovivo supplies a fully automatic Stone Trap<sup>™</sup> system which will effectively remove these solids from the screened materials.

The EWT<sup>™</sup> Stone Trap screens heavier water-borne solids at its opening, while lighter rag and organic solids continue beyond the trap and into the wash tank. (As the Stone Trap screen's effectiveness is dependent on flow rate and velocity, its location within the transport system is critical.) The trapped material is then raised away from the Stone Trap screen by a motorized screw conveyor. Collected debris is discharged into a container for storage and removal from the works.



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