



randazza
Enterprises, Inc.

**Advanced Wastewater
Treatment Solutions**



Mechanical Pre-Treatment

- Self Cleaning Mechanical Screen
- Bar Screen
- Coarse Screen
- Fine Screen
- Grit Removal
- Skimmed Cylinder Strainer
- Integrated Coarse Pre-Treatment

Regulation of Water Passage

- Check Gates
- Sluice Gates

Tertiary Treatment

- Microscreen Filter

Ontana[®]



Utilities Inc.
Lake Groves, Florida

Tertiary Treatment

Microscreen Filters

The fully automatic stainless steel Fontana Microscreen Filter uses differential pressure between incoming and outgoing water levels to filter the suspended solids. The 304 or 316 stainless steel filter media is made from interchangeable half cylindrical segments attached to the filter drum frame. Effluent from the wastewater treatment plant can either be pumped or gravity fed into the inside of the drum. The effluent is filtered outward through the stainless steel filter media, with the solids accumulating on the inside. The automatic pressurized backwash system, using its own filtered effluent, is activated when the factory set sensors high water level is reached. The backwash mud/solids can be discharged into a mudwell or to any other discharge area.

Main Components

- All Stainless Steel Filter Enclosure
- All Stainless Steel Filter Drum
- All Stainless Steel Filter Media
- Stainless Steel Header & Spray Nozzles
- Factory Set Level Sensors & Bubbler System
- Fully Automatic Backwash System
- Electrical Gearbox and Chain Drive
- Pre-wired Control Panel



Filter Media Segments

Features and Benefits

- Small Footprint
- Advanced Technology
- Fully Automatic System
- All Stainless Steel Construction
- Low Maintenance Cost
- Filtration Segments Easily Interchangeable
- Very Low Power Consumption
- Delivered Fully Factory Assembled



Southwest Regional

Mechanical Pre-Treatment

Integrated Coarse Pre-Treatment IHP

The Fontana Integrated Coarse Pretreatment IHP is a combination of a Pretreatment Mechanical Self Cleaning Screen, with a Grit and FOG Removal Chamber. The IHP is designed to remove a wide range of solids found in domestic and industrial wastewater. Solids captured from the wastewater are carried upward on the Rake Belt Assembly and discharged into a screenings washer and screenings compactor. After de-watering and compaction, the screenings are transported by a steel screw conveyor/chute and discharged into a dumpster. Simultaneously, as the heavy solids are being removed by the Self Cleaning Mechanical Screen, the influent continues to flow into the longitudinal Grit Chamber. In this Chamber, the Grit and FOG (Fats, Oils and Grease) are separated. The FOG is trapped by a baffle on the surface of the water level. The Grit flows down the inclined walls to the bottom, to a Screw Conveyor where it is transported in intervals to a cistern to a container.

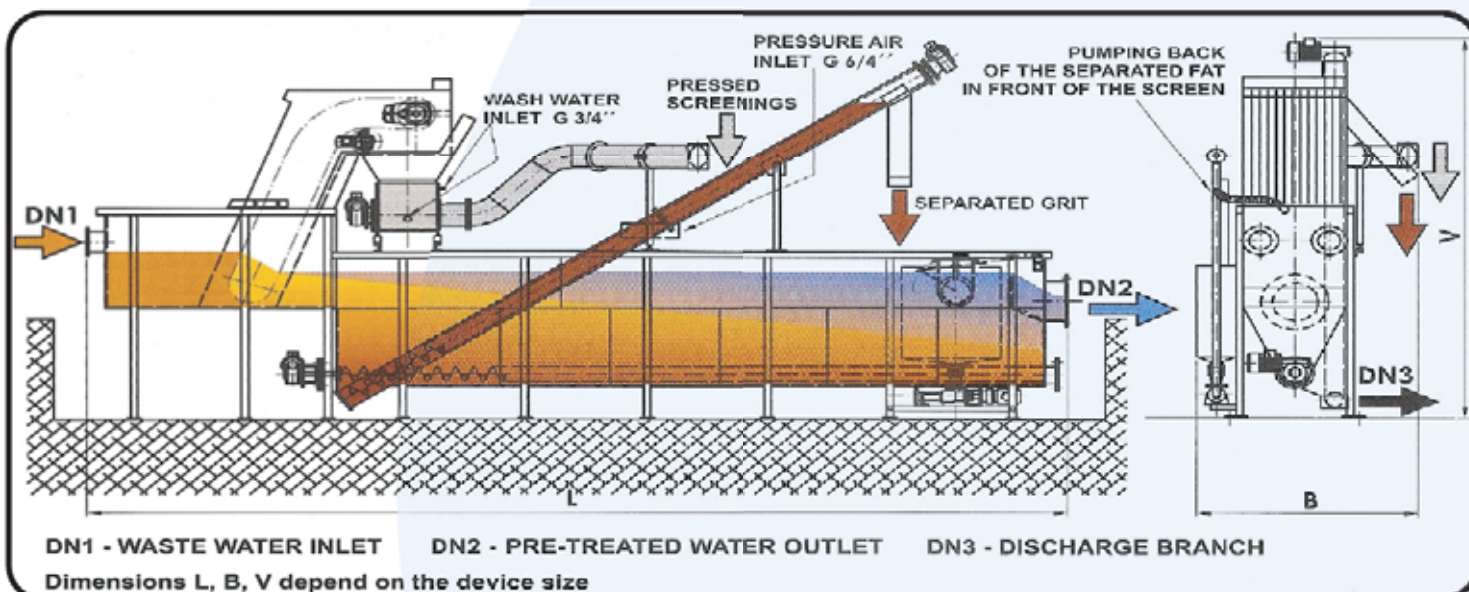
Main Components

- All Stainless Steel Construction With Water and Fat Resistant Material
- All Stainless Steel Discharge Chute
- Shaftless Screw Conveyor
- Screenings Press
- Grit and FOG Removal Chamber
- Rotation Brush and Drive
- Gearbox for Filtration Belt Drive
- Bottom Belt Cover



Features and Benefits

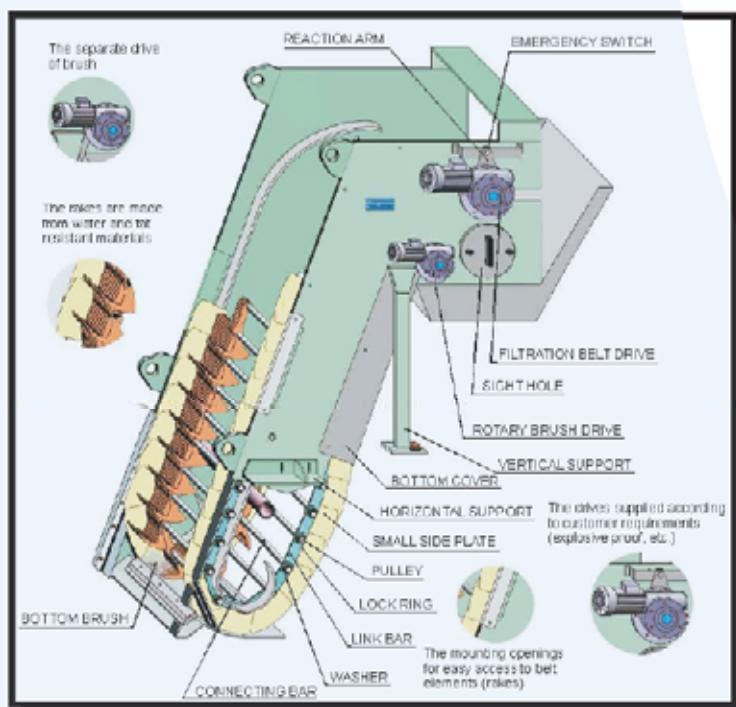
- Slot Width Range From 1mm-15 mm
- Self Cleaning
- Reversible Compactor Motor
- PLC Computerized Pre-wired Control Panel
- Low Power Consumption
- No Submerged Bearings
- Delivered Fully Factory Assembled



Mechanical Pre-Treatment

Self-Cleaning Mechanical Screens with Screw Press & Screening Washer

The Fontana Mechanical Pre-Treatment Self Cleaning Screen is designed to remove a wide range of solids found in domestic and industrial wastewater. Solids captured from the wastewater are carried upward on the Rake Belt Assembly and discharged into a screenings washer and screenings compactor. After de-watering and compaction, the screenings are transported by a steel screw conveyor / chute and discharged in to a dumpster.



Main Components

- All Stainless Steel Construction With Water and Fat Resistant Material
- All Stainless Steel Discharge Chute
- Rotation Brush and Drive
- Gearbox for Filtration Belt Drive
- Bottom Belt Cover
- PLC Computerized Pre-wired Control Panel



Features and Benefits

- Slot Width Range From 1mm-15mm
- Self Cleaning
- Reversible Compactor Motor
- PLC Computerized Pre-wired Control Panel
- Low Power Consumption
- No Submerged Bearings
- Delivered Fully Factory Assembled



www.randazzawastewater.com