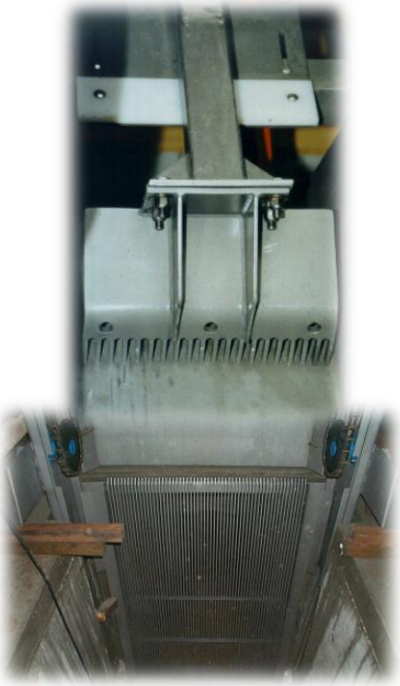
FC / RP BAR SCREEN

The Arlat Mechanical Bar screen works by utilizing a carriage mounted rake assembly to remove material that has been collected on the submerged static bar rack. The collected screenings are discharged through a chute on the downstream side of the screen located above the operating floor.

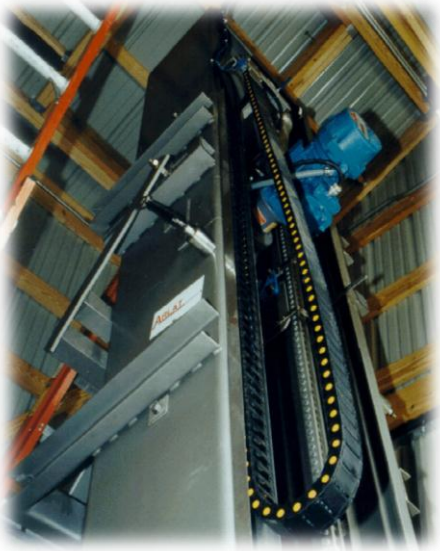


Arlat manufactures two styles of 'Climber' screens; model FC, which utilizes a fixed motor driving a chain and sprocket system to move the carriage; and model RP, which has a carriage mounted motor connected directly to the drive shaft and uses a rack and pinion arrangement to drive the carriage; that removes the material from the bar rack.

* ARLAT FC BAR SCREEN

Both styles are front cleaned, front return, self-cleaning mechanical screens for the separation and removal of solid wastes from industrial and municipal flow systems, including storm water/CSO installations.

Although the majority of the screen components are manufactured from 304SS, UHMW is widely used to significantly reduce wear, noise and replacement costs when compared to competitive machines. There are no rotating drive parts that come into contact with the liquid.



* ARLAT RP BAR SCREEN

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FC / RP BAR SCREEN

A variety of options are available to best fit your application:

- 316 Stainless frame and component construction for more corrosive installations
- Bar rack openings range from 3/8” to 2”, custom sizes and shapes are available
- Enclosure panels to protect the operator and minimize odour issues
- Heat tracing for cold weather outdoor installations
- Explosion proof motors and controls for classified locations
- Full PLC control panels are available that can offer;
    - Fluid differential monitoring
    - Speed control for the screen drive system
    - Continuous mode operation during high flow periods
    - Full inlet works package integration

Technical Information:

- Rake Head
    - ½” 304SS replaceable fingers are used to remove material from the bar rack
- Bar Rack
    - 3/8” x 2-1/2” 304 SS flat bars are used for the static screen
- Rack N Pinion Assembly
    - 400 series stainless is used for the rollers and pins
- Carriage Assembly
    - 304SS plate and structural members are used in the construction of the carriage
    - Cam follower style rollers are used to guide the carriage through its required path to clean the bar rack
- Structural frame
    - 5/16” 304SS plate is formed to create the side frame
    - ¼” 304SS formed into structural member used to further stiffen the frame
    - ½” 304SS formed angles to create the mounting feet used to secure the screen
- Drive Assembly
    - .5HP and 1HP motors are typical selections for wastewater applications
    - Drives are protected from excessive current and over-torque

Head loss calculators are available to aid in selection of the right combination of channel size and screening spacing for your application

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