



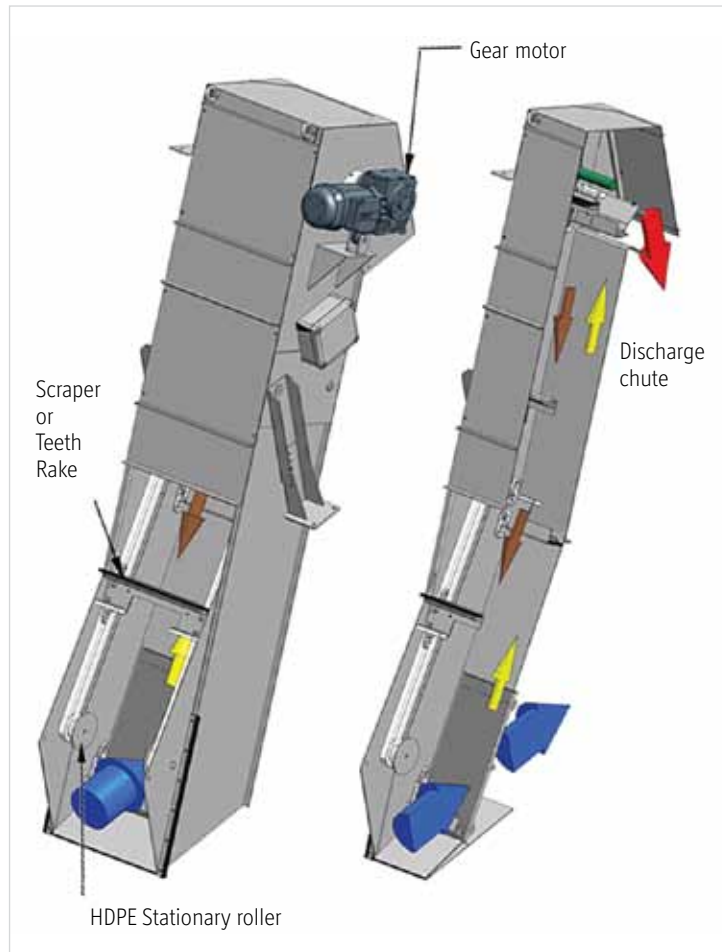
Aqualitec
Screening Equipment

RAKETEC
INCLINED MULTIPLE RAKE SCREEN

Raketec:

The Inclined Multiple Rake Screen with
The Auto Reconnect Chain System.

By Aqualitec.



Operating Mode:

The mechanism consists of multiple teeth' rakes, rubber rakes and/or brushes attached every foot on 2 heavy-duty chains. Chains are driven by a drive shaft that is used to transmit a rotational motion. The chains are made of stainless steel and have an auto reconnect system. The chain rollers and chain guides are in high-density polyethylene (HDPE) with no metallic lower bearings and no lower sprockets. A scraper is placed at the point of discharge to eject the screenings located on the rakes. The debris are removed from the bar screen by the teeth' rakes, rubber rakes and/or brushes, those are designed to mesh perfectly with the bar screen. Raketec can either run continuously, based on a timer program (cycle on/off) or with a water level sensor.

Aqualitec Corp. - 610 W Carob Street, Compton, CA 90220
1-877-278-2214. Fax (323) 732 2815. www.aqualitec.com



Features & Benefits

1. Simply driven



The gear motor mounted at the top of the frame assure the rotation of the drive shaft. The links of the chain fit into 2 cogwheels located on each extremity of the drive shaft.



Driven by the rotation of the shaft, the links of the 2 stainless steel chains slides into the HDPE track. With the HDPE track system, there is no friction between the chain and the frame of the bar screen. Does not require to grease the chain.



2. Free Sprocket, no lower maintenance

At the lower part of the bar screen, the chains are dragging over 2 HDPE stationary roller. With no moving parts at the bottom of the equipment, no maintenance or underwater operation are necessary.



3. Auto Reconnect System

In case of vibration, the loose of the chain, combined to the simple HDPE track system mechanism guarantee an auto reconnection adjustment.

Watch the Auto Reconnect System video online, www.aqualitec.com



Features & Benefits

4. High Capture Rate



With the gravity, every rake removes screenings from the bottom of the screen. A combination of rubber rake and teeth rake set up on the chain every foot performs a complimentary and efficient cleaning. The rubber handles all rags & wipes, the teeth rake gets into the bars of the screen and remove smaller debris such as grit, sands, fibers... Brushes can be provided for greasy water.

5. Minimal & Easy Maintenance



As mentioned, with no moving parts at the bottom of the bar screen, no maintenance is required. The weekly maintenance will consist in a visual check of the chains and the discharge chute. The back of the bar screen got an easy and safe access hood. When needed, replace the rubber scrapper by unbolting the 3 bolts.

6. Odor Control



The frame of the bar screen is totally enclosed. Adding a washer compactor Compactec with a bagger system will maintain a total odor control.



Performances

Applications: Municipal & Industrial

Flow capacity: up to 30mgd

Space bar opening: : 3/64" to 2" (1 to 60mm)

Design

Raketec is customized based on specifications and/or structural constraints.
Below are some guidelines of the design requirements.

MATERIALS

304 or 316 stainless steel

Surface treatment: Scouring, Passivation

T.I.G. welding techniques

SPACE REQUIREMENTS - FOOTPRINT

Depth: up to 13' (4000mm)

Channel Width: 1.64' to 6.56' (500mm to 2000mm)

Installation angle: 60°

MOTOR CHARACTERISTICS

Absorbed power: ¾hp (0.56 KW)

Voltage: 240 or 480 VAC

Frequency: 60 Hz



City of Winters, California

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