

Aqua Guard[®] MN UltraClean[™]

Continuous Self-Cleaning Bar/Filter Screen

Rebuild & Retrofit

- Modular head replacement
- New brush position and belt path
- Dual optimally positioned spray bars
- Work performed on-site or at factory

Designed with the operator in mind

The Aqua Guard® MN UltraClean™ screen was developed to increase the capture rate efficiency of the Aqua Guard® screen, improve the cleaning method and reduce maintenance. The main feature of the retrofit unit is an optimized belt path relocating the solids release point. In a side by side test the rebuilt unit scored over a 50% better capture rate than the original screen.

A new hybrid brush is optimally relocated for improved cleaning of the belt. Longer bristles penetrate deeper in between the elements in order to remove debris. The brush length along the shaft spans from rail to rail for better screen belt cleaning. A unique hybrid brush design prevents long rags, hair and threads from wrapping tightly around the brush core and shaft. The new brush needs far less maintenance, lasts longer and most importantly, improves the capture rate of the screen.

An independent brush drive enables the brush to rotate at an optimum speed in the opposite direction of the belt and at a faster speed for over 3.5 times more contacts with the elements per minute.

Dual spray bars, located before and after the brush assembly provide additional cleaning of the belt; one at the first solids release point (before the contact point of the brush and the belt) and a second at the second solids release point. Spray bars deliver water only when the belt is moving and one site noted that 10 psi was very effective and saved water too.

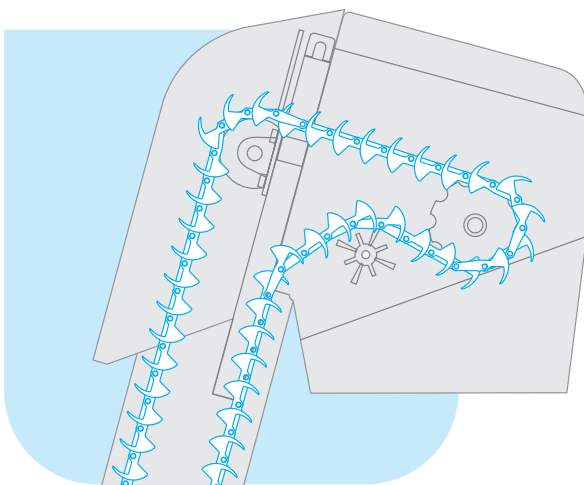


Features

- Modular head replacement with:
 - New brush position and belt path
 - UltraClean brush design that resists “wrapping” and stays cleaner longer
 - Dual optimally positioned spray bars
- Wearable part replacement
- Parkson-certified engineering
- Work performed on-site or at factory by Parkson-certified labor
- Parkson-certified training upon completion

Benefits

- Over 50% capture rate improvement in side by side test
- Operators agree: easier to maintain with fewer downstream issues
- Less frequent equipment maintenance
- Extends warranty to one-year for certified rebuilds
- Improves operational efficiency
- Avoids capital expense of new equipment
- Extends equipment life
- Lower operating costs



Parkson Rebuild & Retrofit Options

On-site with Parkson Technicians and OEM Parts

Features

- Parkson-certified specialist will complete the rebuild or retrofit at the customer's facility, replacing all recommended wear parts
- Newly reconditioned unit(s) will be placed back in operation without having been physically removed from the customer's plant
- One-year warranty on the rebuilt equipment

Advantages

- On-site solution
- Includes on-site start-up and training
- Parkson OEM parts are supplied

Parkson-Certified Rebuild at Factory

Features

- Hassle-free option allows the customer to send their equipment for rebuild or retrofit to the factory or Parkson-certified service center
- Unit is test run at the factory
- Includes on-site start-up and training
- One-year warranty on the rebuilt equipment

Advantages

- Most complete rebuild & retrofit
- One-stop solution
- Parkson OEM parts are supplied

Head Comparison

Before



After



Service Maintenance Program

The Parkson Aqua Guard Service Maintenance Program will provide the necessary preventative and periodic care to keep your Aqua Guard unit functioning optimally. Parkson offers quarterly and semi-annual programs.



Aqua Guard Maintenance Schedule

Maintenance Task

- Perform a general visual inspection
- Install parts and maintenance from general inspection
- Clean screen face and rotating brush
- Clean interior of bar screen
- Perform complete interior inspection
- Inspect condition of brush
- Inspect filter belt assembly
- Inspect and adjust screen belt tension
- Check all fasteners on the unit
- Inspect side seals
- Replenish shaft bearings grease
- Check the condition of the grease lines and fittings for wear
- Inspect bar screen drive system
- Check bar screen drive oil level
- Change oil in bar screen drive reducer, if necessary
- Check spare parts inventory
- Inspect overload mechanism
- Check operation of all electrical components
- Replenish screen motor bearing grease, if necessary
- Check and tighten all electrical connections in control panel
- Issue service maintenance inspection report upon completion



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