



# Aqua Guard<sup>®</sup>

## The Original Self-Cleaning In-Channel Moving Media Screen

### Unparalleled Protection for Downstream Equipment

- Unique 3-dimensional screening surface provides coarse and fine screening in one
- Exceptional capture rates
- Low headloss resulting in high liquid capacity
- Proven design with thousands of installations
- Available with UltraClean™ upgrade or with perforated plate media



# Confidence in Fine Screening

The Aqua Guard® screen utilizes a unique filter element system designed to automatically remove a wide range of solids found in conventional municipal and industrial wastewater channels. The elements, mounted on a series of parallel shafts, form an endless moving belt that collects, conveys and discharges solids greater in size than the nominal element spacing.

## Efficient Operation

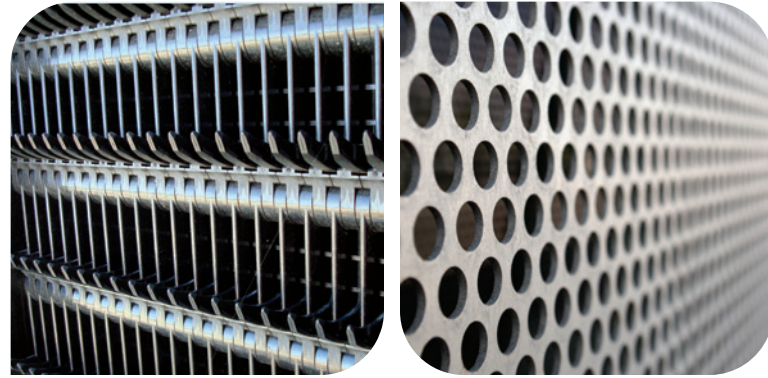
Solids that are captured out of the wastewater flow are conveyed upward on the belt assembly to be discharged at the rear of the unit. Two-stage coarse and fine screening are achieved on the forward and recessed faces of the element belt, resulting in some of the lowest headloss in the industry.

## Reliable Performance

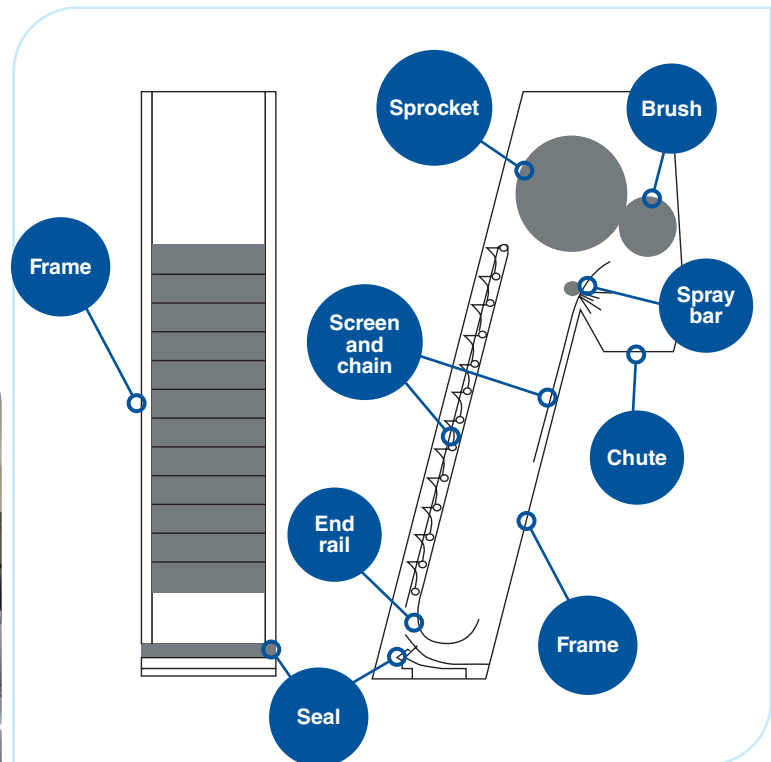
With over 10,000 screen installations worldwide, a myriad of applications, and millions of hours of operation, Parkson delivers reliability, longevity and superior performance.



Two-stage coarse and fine screening with element screens followed by perforated screens.



Parkson provides a complete offering of **screening, washing, compacting, and conveyance** systems.



## Aqua Guard® Family

Whether the Element or Perforated (PF) screen for a given application, Parkson has **the optimal equipment for superior screening performance.**

## Perforated ("PF") Plate Media

Building on the time-tested Aqua Guard® platform, the Aqua Guard® PF screen utilizes stainless steel perforated plate media to automatically remove solids from municipal and industrial streams.

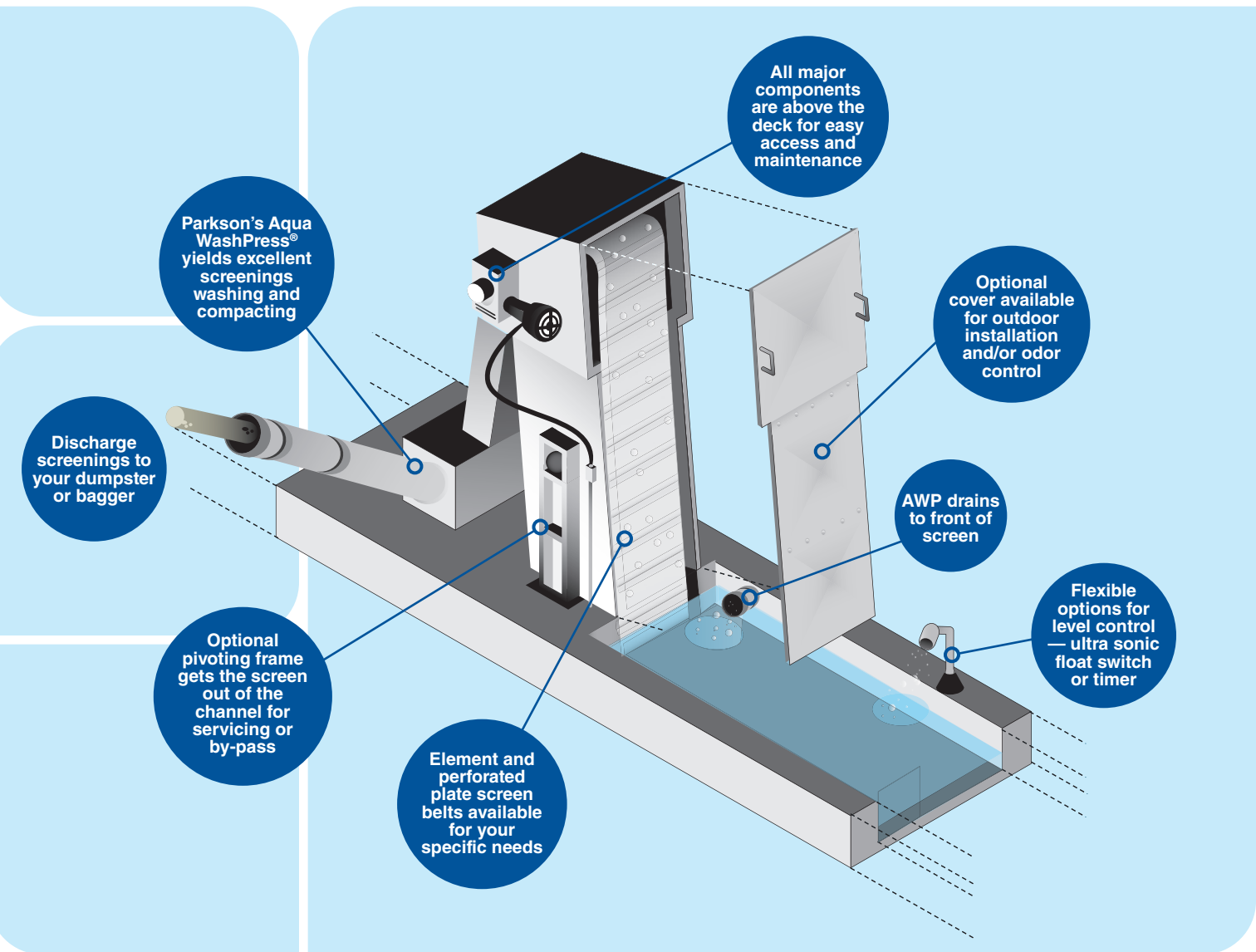
## The AGPF Advantage

The PF panels are designed with an extra wide step to provide superior carrying capacity and with 20% more open area, even lower headloss than the traditional element screens. Stainless steel perforated panels provide greater protection under high flow and surge conditions.

The Aqua Guard PF is an ideal option for applications that demand very high removal rates in both municipal and industrial applications.

## Features and Benefits

- No submerged bearings
  - Low power consumption
  - Self-cleaning
  - Flows up to 100 MGD
  - Pivoting design
  - Delivered fully assembled
  - No attachment to channel
  - Element and perforated design
  - Ability to build precoat
- Low operation cost and ease of maintenance**
- High capacity**
- Ease of installation**
- High capture rate**

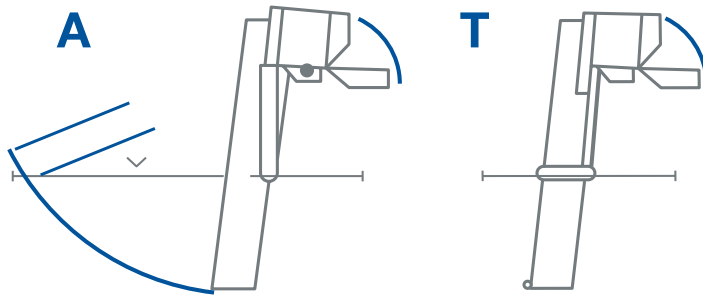


## Design Parameters

	Model MN	Model S	Model PF
	Standard	Heavy Duty	Perforated Plate
Minimum Channel Width (in.)	12	24	18
Maximum Screen Width (in.)	66	108	108
Maximum Design Headloss (in.)	10	24	24
Typical Screen Spacing*	1/8 - 5/8 (in.)	1/8 - 1 1/4 (in.)	1/8 - 1/4 (in.)
	1 - 15 (mm)**	3 - 30 (mm)**	3 - 6 (mm)**
Available Angles of Inclination	60° / 75° / 85°	60° / 75° / 85°	60° / 75° / 85°

\*Other spacings available upon request

\*\*mm sizes are nominal



### Available in Two Styles

**Style A** – Pivoting Design

**Style T** – Fixed in Channel

Styles available for all models:

- Standard
- Heavy Duty
- Perforated Plate

### Parkson Supplies a Complete System

Parkson's Aqua WashPress® Dewatering Screw Press can be easily added for efficient solids washing and compacting.

### Aqua Guard® UltraClean™ Upgrade

The UltraClean upgrade provides decreased maintenance, improved machine access, and improved cleaning resulting in even higher capture rates.



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