

Series and

the filter elements (pitch) determine the AQUA-GUARD series. The type corresponds to the shape of the frame.

	Serie MM	Serie S		
Pitch	100 mm	200 mm	MN -	
Diameter of the shafts18 mm		35 mm	IVIN	



Type "C" Installation angle: 60°C Free standing frame fixed in a flat-bottom channel.



Туре "Т" Installation angle: 85°C Fixed frame, supported at the top of the channel on four feets.

The distance between the bosses of The capacity of an AQUA-GUARD depends on the screen width (channel width), the filtration mesh, the upstream water level and of course the SS content on the effluent to

			Max flow (m ³ /h)
MN	MANI	С	600
	Т	3000	
-	S	Т	20 000

Example of a municipal waste water (SS: 200 mg/l) Wineries, breweries

Textile industry

Food industry

(river, lake, ...)

Industry Pulp and paper

Tanneries, bleaching, dyeing

Typical applications

Screening at inlet of municipal or

industrial sewage treatment plants

Water intake of water treatment plant

Meat processing, slaughterhouses Vegetable and fruit processing

Aqua-Guard

Self-washing continuous fine screen



NORTH AMERICA ANDRITZ SEPARATION Inc. Phone: +1 (817) 465 5611 Fax: +1 (817) 468 3961 separation.us@andritz.com

SOUTH AMERICA ANDRITZ SEPARATION Ltda. Phone: +55 (47) 3387 9110 Fax: + 55 (47) 3387 9103 separation.bra@andritz.com

EUROPE

ANDRITZ AG Phone: +43 (316) 6902 2990 Fax: +43 (316) 6902 92990 separation@andritz.com

ASIA ANDRITZ Singapore Pte. Ltd. Phone: +65 (6512) 1800 Fax: +65 (6863) 4482 separation.sg@andritz.com

CHINA

ANDRITZ (China) Ltd. Phone: +86 (757) 6663 3419 Fax: +86 (757) 6663 3448 separation.cn@andritz.com

AUSTRALIA ANDRITZ Pty. Ltd. Phone: +61 (3) 8773 4888 Fax: +61 (3) 8773 4899 separation.au@andritz.com

AFRICA

ANDRITZ Delkor (Pty) Ltd Phone: +27 (11) 466 2361 Fax : +24 (86) 636 2122 separation.za@andritz.com

www.andritz.com

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ANDRITZ SEPARATION Self-washing continuous fine screen

Thanks to the special shape of the filter

elements the AQUA-GUARD fine screen

is uniquely placed among its competitors

in terms of screening capacity, in terms of

throughput as well as size of the solids to

be removed.

Launched by ANDRITZ at the end of the Seventies, the fine screeing concept has since been setting the standard in over 50 countries. The self cleaning AQUA-GUARD continuous belt screen has been a pioneer in this field and remains the reference.

Operating principle

The AQUA-GUARD self- washing continuous screen can be quickly installed into any type of channel, including existing ones, and are easy to maintain due to their compact, robust design. Optimized operation and separation efficiency secure high throughput also for pollution-laden waters.

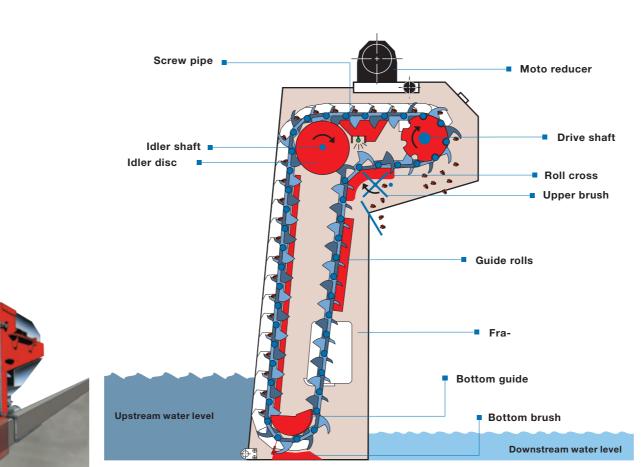
The AQUA-GUARD is mainly composed of:

- a self-supporting welded frame
- a washing ramp located in the head of the equipment
- a motor coupled with a driving chain
- a filtration screen

The filter elements are interconnected to form an endless belt which collects all undesirable solid materials, carries them away from the fluid, ejects the solids to a conveyor or container and then mechanically cleans itself so that a clean, unobstructed screening area is continuously presented to the moving liquid. Intermittent operation of the AQUA-GUARD fine screen minimizes wear and optimizes the screening efficiency in relation to the filter area.

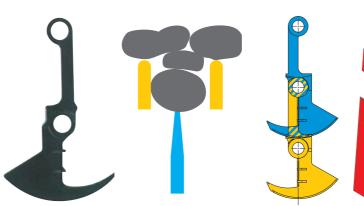
- The material piles up, thus blinding the screen and increasing the effectiveness and the fineness of filtration.
- Large quantities of screening material form layers, which can be more easily discharged.

This is why ANDRITZ recommends intermittent operation for AQUA-GUARD fine screens by measurement of the headloss



1. Filter elements

The patented design of the filter elements and their special arrangement, forming an endless filter belt, are the typical features of the AQUA-GUARD fine screen. Fitted to a support frame and interconnected, they form the screen's filtering area. The highstrength filter elements or hooks are made of moulded ABS. The following standard mesh sizes can be selected : 1 mm - 3 mm - 6 mm - 10 mm - 15 mm.



2. Double filter zone, selfcleaning feature

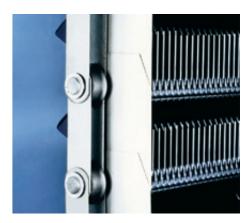
The AQUA-GUARD fine screen is the only one on the market that offers this double feature. The special shape of the teeth and their arrangement provide a vertical and horizontal - i.e. double - filtration mesh. Continuous self-cleaning is achieved by

3. Drive chains

The AQUA-GUARD continuous fine screen 4. Robust, simple frame is driven via chains mounted on each end Two firmly connected lateral supports form of the filter element support shafts, with the AQUA-GUARD frame. the additional advantage of providing sta-The material finish can be selected from a bility. Made of stainless steel AISI 403/30, number of options: painted carbon steel or the chains are very sturdy and can thus stainless steel 304L / 316L. withstand temporary hydraulic overloading from high flows.







The self-supporting frame can be directly fixed at the bottom of a channel. The AQUA-GUARD features simple installation and ease of operation in any type of channel.

Available screen sizes: 300 mm to 3000 mm width and 1 m to more than 12 m discharge height. The current maintenance of the AQUA-GUARD is limited to greasing and cleaning; it is very easy to reach the wear parts.

The possible repairings are very quick and c a rried out on site mainly above channel

