# Mini-Rotoscan Filters II

#### Automatic sel cleaning filters





#### **INDUSTRIAL FILTRATION**

#### SELF CLEANING MINI-ROTOSCAN II FILTERS

- Mini-Rotoscan II self-cleaning screen filters are manufactured in a standard industrial PP casing ensuring robustness and protection against corrosion in all operating conditions.
- They can be used for seawater filtration.
- The filtration process is carried out by the passage of raw water through a cylindrical cartridge composed of a PVC casing with external radial slots. Inside this carridge, are located:
  - A wide mesh serving as a spacer
  - A polyester filter element
  - · A PVC inner casing with radial slots serving as suction windows during the cleaning process.
- The cartridge, through which raw water passes, retains impurities of dimensions inside greater than the filtration degree of the selected mesh.
- A motorized scanner with suction nozzles, rotates periodically and clears out the retained impurities from the mesh evacuates them outside.
- The suction nozzles are mounted on synthetic springs to better bond to the surface to be cleaned.
- The filter is controlled as standard by an electronic box. Wash cycles can be initialized, either by means of a timerror according to a pressure drop.
- Screen cleaning is performed in continuous operation without interruption of service (this requires a sufficient filter feed rate to ensure washing and production simultaneously).
- The filters can be delivered without electronic box for integration and control by a centralized automation.
- One version are available for vertical mounting.



Contrôle cabinet



Filter cartridge with scanner





The Mini-Rostoscan range is recommanded in the following filtration applications:

- Borehole water : geothermal applications, irrigation
- Industrial water coming from waste water treatment plants
- · Protection of membrane systems
- · Seawater : heat pumps, hatchery
- · Any industrial filtration application

## Mini-Rotoscan Filter II

## CHARACTERISTIQUES.

Model	Filtration area	In / Out	Drain (cleaning)	Maximum flow rate	Cleaning flow rate
	cm²	Diameter	Diameter	m³/h (1)	m³/h
Mini RTS II 0700	700	1.5"	1"	7,5	2
Mini RTS II 1450	1450	1.5"	1"	10,5	5

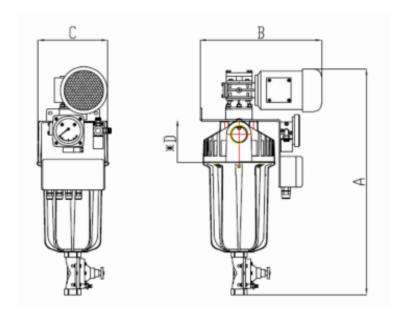
### OPERATING RANGE

$\Diamond$	Maximum recommended working pressure drop : 0.3 to 0.5 bar (0.8 bar maximum).
$\Diamond$	Water consumption for a 15-second wash : 8.33 to 20.83 liters depending on the model of filter.
0	Maximum pressure drop for the filter screen (destruction of the filtering element): 4.5 bars between the inlet pressure and the outlet pressure (filtered water) or between the outlet pressure (filtered water) and drain (wash water).
$\Diamond$	Average recovery rate : the average consumption of waung water is 3%
$\Diamond$	Maximum operating pressure : 6.0 bar - Operating temperature: +1 ÷ +40 °C
$\Diamond$	Power supply : 230 V – 50 Hz
$\Diamond$	Dynamic pressure downstream of the filter during washing minimum 0.5 bar (recommended 1.0 bar)

- Degrees of filtration : 500, 300, 200, 125, 80, 50, and 25  $\mu m$  with standard filtering elements.
- Washing time: 15 seconds.
- Rotation speed: 27.0 revolutions per minute
- Maximum suspended solids concentration : - 100 g/m $^3$  for 500 à 125  $\mu m$  filtering elements
  - 50 g/m³ for 80 à 50 µm filtering elements
  - 25 g/m³ for 25 µm filtering elements

Filtration rate (en µm)	500	300	200	125	80	50	25
Maximum suspended solids (en mg/l)	100	100	100	100	50	50	25
Maximum rates (m3/h)							
MINI RTS II 0700-40	7.5	7.5	7.5	7.5	7.5	7.5	7.5
MINI RTS II 1450-40	10.5	10.5	10.5	10.5	10.5	10.5	10.5

# DIMENSIONS



Model	<b>A</b> mm	B mm	C mm	<b>D</b> mm	Kg
MINI RTS II 0700-40	610	320	190	250	7
MINI RTS II 1400-40	855	320	190	500	12



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