



## Melt filtration – the right system for all requirements

EREMA melt filters meet the very highest quality standards and stand out through their robustness, high degree of automation and high-performance availability. **The right system with the right size and the right filtration fineness is available for all needs, depending on the field of application and the throughput range.**

### Fields of application for EREMA partial area backflush filter systems

- › **Recycling**
  - Manages peaks in contamination
  - Improves homogenisation
- › **Fibre production**
  - Ultra-fine filtration at moderate pressure levels
  - Dramatic increase in service life for spin pack units
- › **Blown film and flat film production**
  - Fully automatic filtration without interrupting production
  - Effective filtering of gel-type particles
- › **Pipe production**
  - Fully automatic filtration without interrupting production
  - Reduces costs by allowing higher levels of recycled material to be used
- › **Repellets/Masterbatch**
  - High grain uniformity even during backflushing
  - Improves homogenisation

### Technical benefits

- › **Large active overall screen surface** enables the processing of both high levels of contamination and surge contaminants in the melt
- › **Partial area backflushing with high cleaning efficiency** through backflushing of individual screens
- › **Two opposing screens per carrier piston** for balanced pressure distribution
- › **Lowest possible pressure fluctuations** during screen change and backflushing

### Economic benefits

- › **Fully automatic, efficient and reliable backflushing mechanism** for maximum screen service life, long screen change intervals and reduced screening costs
- › **Less labour required** thanks to automatic backflush control
- › **High end product quality**
- › **Low melt loss**

## Active total filter screen surface

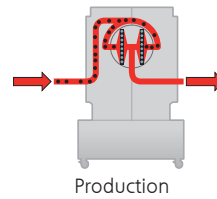
**EREMA SW 2/ RTF** Semi-continuous backflush filter with one carrier piston (2 screens) for lightly contaminated polymers.



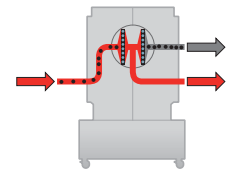
### 1 carrier piston (2 screens)

| SW RTF       | Ø screen | Active total screen area |
|--------------|----------|--------------------------|
| SW 2/104 RTF | 104 mm   | 170 cm <sup>2</sup>      |
| SW 2/134 RTF | 134 mm   | 282 cm <sup>2</sup>      |
| SW 2/170 RTF | 170 mm   | 454 cm <sup>2</sup>      |
| SW 2/250 RTF | 250 mm   | 982 cm <sup>2</sup>      |

System layout SW 2/ RTF



Production



Backflush cleaning during production

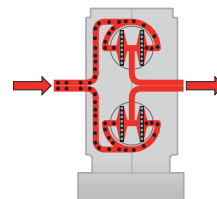
**EREMA SW 4/ RTF** Continuous partial area backflush filter with two carrier pistons (4 screens) for medium contaminated polymers. Low pressure differences when backflushing or changing screens.



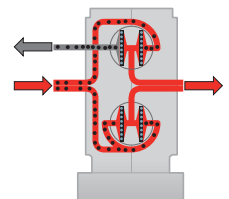
### 2 carrier piston (4 screens)

| SW RTF       | Ø screen | Active total screen area |
|--------------|----------|--------------------------|
| SW 4/82 RTF  | 82 mm    | 211 cm <sup>2</sup>      |
| SW 4/104 RTF | 104 mm   | 340 cm <sup>2</sup>      |
| SW 4/134 RTF | 134 mm   | 564 cm <sup>2</sup>      |
| SW 4/170 RTF | 170 mm   | 907 cm <sup>2</sup>      |
| SW 4/250 RTF | 250 mm   | 1963 cm <sup>2</sup>     |

System layout SW 4/ RTF



Production



Backflush cleaning during production

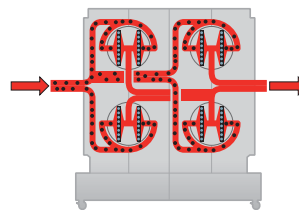
**EREMA SW 8/ RTF** Continuous partial area backflush filter with four carrier pistons (8 screens) for heavily contaminated polymers. Very low pressure differences when backflushing or changing screens.



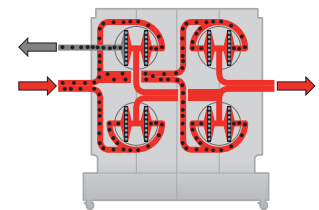
### 4 carrier piston (8 screens)

| SW RTF       | Ø screen | Active total screen area |
|--------------|----------|--------------------------|
| SW 8/104 RTF | 104 mm   | 680 cm <sup>2</sup>      |
| SW 8/134 RTF | 134 mm   | 1128 cm <sup>2</sup>     |
| SW 8/170 RTF | 170 mm   | 1814 cm <sup>2</sup>     |
| SW 8/250 RTF | 250 mm   | 3926 cm <sup>2</sup>     |

System layout SW 8/ RTF



Production



Backflush cleaning during production

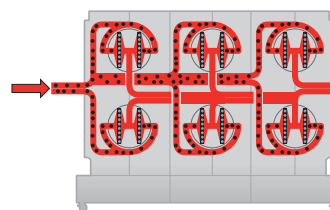
**EREMA SW 12/ RTF** Continuous partial area backflush filter with six carrier pistons (12 screens) for heavily contaminated polymers. Extremely low pressure differences when backflushing or changing screens.



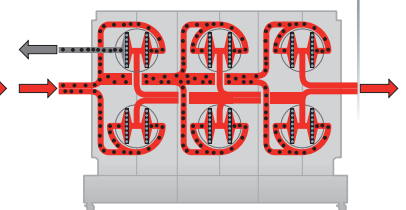
### 6 carrier piston (12 screens)

| SW RTF        | Ø screen | Active total screen area |
|---------------|----------|--------------------------|
| SW 12/170 RTF | 170 mm   | 2721 cm <sup>2</sup>     |

System layout SW 12/ RTF



Production

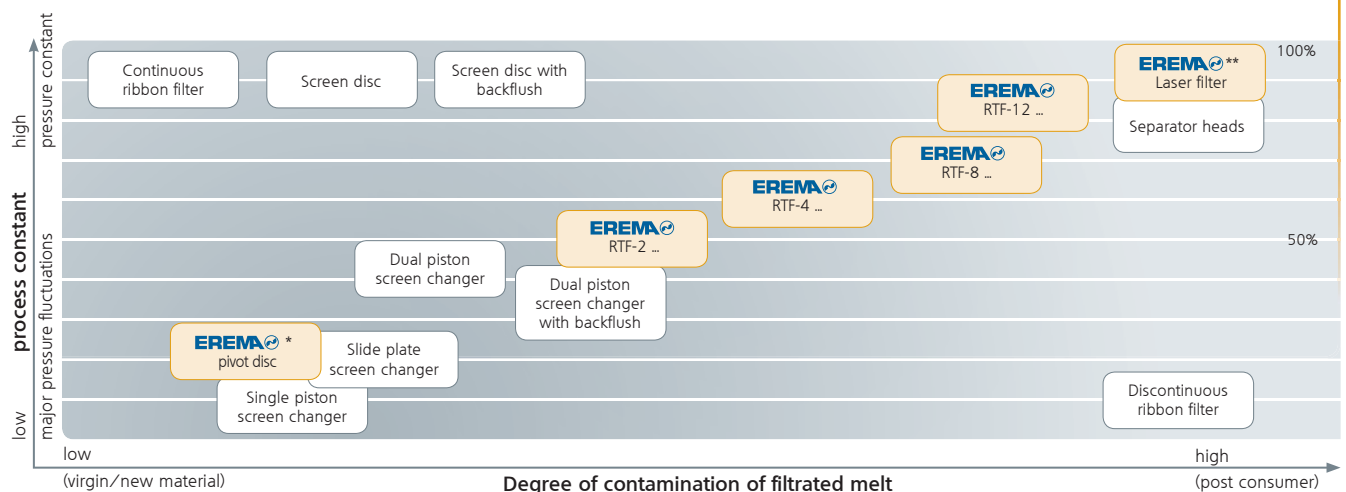


Backflush cleaning during production



## Which filter system for which application?

The diagram shows applications for different conventional filter systems with reference to the two main parameters: process consistency (pressure consistency) and filtration capacity (level of contamination of the melt).



\*The **EREMA pivot disc** is suitable as safety filtration for clean polymer melts

Systems available:  
 CL 104 (85 cm<sup>2</sup> active screen area)  
 CL 120 (113 cm<sup>2</sup> active screen area)



\*\*The **EREMA laser filter** is suitable for very high filtering capacity. Ideal for contaminants such as paper, wood, aluminium, copper etc.

Please ask for the individual folder!



Demonstrations and test runs with your plastic material in our customer test centre are welcome by appointment.

### Choose EREMA

- › Proven and reliable technology from the global market leader
- › Constant innovations secure the lead
- › First class worldwide customer service guarantees lasting reliability and fast support
- › Outstanding end product quality
- › Customised individual solutions



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