



LARGE AREA FILTRATION POLYMER MELT SYSTEMS



DESIGN BENEFITS

- Dead space free, optimized geometry melt flow due to computational flow dynamics (CFD) simulation
- Increased plant availability due to longest onstream filter life
- Perfectly scaled setup and fit for filter candle or filter discs
- Exceptional product quality with the lowest possible shearing stress

PRODUCT DESCRIPTION

- Seebach® melt filters are especially large-area filters designed for the processing of plastic melts. They are used in high pressure and high temperature systems to remove critical contaminants such as gels, degenerated material, and process debris.

John Crane's Seebach melt filters are applicable for multiple polymer production processes from pilot-single candle filters less than 1 m² up to multiple-candle, duplex systems with changeover for continuous operation and filtration areas of up to 100 m².



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DESIGN SPECIFICATIONS

Filtration Rating	As requested*
Maximum flow rate	5 kg/hour - 20 tonnes/hour 11 lbs/hour - 44,000 lbs/hour (more on request)
Input/Output	As requested
Maximum operating pressure	300 bar/4350 psi (more on request)
Maximum operating temperature	350 °C/660 °F (more on request)

Over 50 years of experience in filter manufacturing enables John Crane to provide the optimum solution for you. Our melt filter systems feature established designs adapted to your specific needs. To reduce your OPEX and enable the best possible plant availability and product quality we have the state-of-the-art solution.

From CFD simulation of the melt flow inside your filter, our unique design technology and process expertise provides the perfect tailor-made filter solution for you, featuring the lowest start-up pressure, longest filter onstream life, and greatest filter cleaning cycles to reduce maintenance effort and create new efficiencies. Combined with our dead zone free and rheologically optimized filter elements, our solutions will provide the highest quality polymers.



LARGE AREA FILTER TYPES

Candle Filter	Disc Filter
1-candle / 3-candles / 7-candles / 19-candles / 31-candles / 37-candles / 61-candles / 85-candles / 121-candles	7" discs / 10" discs / 12" discs / 15" discs

All systems can be double filter/quattro filters, equipped for semi-continuous or continuous operation and electrically or fluid heated. Supporting process equipment such as preheating stations, lifting devices, assembly devices, transport and standby carts, as well as bridging pieces such as flanges, sensors and cables, are available to be specified.

Together, we will work with you to keep your mission-critical operations up and running with support and guidance from our experienced team.



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If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated. ISO 9001 and ISO14001 Certified, details available on request.