

Press Release

Largest ERF continuous melt filter for ultra-high throughputs and removing difficult contaminants


Oberglatt, Switzerland, October 16, 2019 – MAAG Group will take advantage of the upcoming K 2019 to unveil the brand new ERF 1000 high performance melt filter for very high throughputs in recycling applications for plastic materials at booth A04 in hall 9. The four filter drums provide a total of 6280 cm² of filtration surface – twice as much as the ERF 500, the previous top-of-the-range model – and reliably remove foreign particles from polymer feedstock containing up to 18% contaminants. Both machines share the same compact and small footprint. ERF filters are now available in four different sizes, starting with the ERF 200 for throughputs up to 800 kg/h. With a maximum of 10,000 kg/h depending on the application, the new ERF 1000 is the manufacturer's biggest model to date.

The filter is MAAG Group ETTLINGER's response to the accelerating industry trend in many parts of the world toward higher throughputs on the one hand and even higher qualities on the other – a trend triggered by the rising global demand for premium quality recycled materials for sophisticated applications. The high-performance and cost-efficient ERF 1000 combines high productivity with an ability to meet ever stricter quality requirements. It is suited for virtually any kind of plastic that is relevant for recycling, including packaging plastics such as LDPE, LLDPE and HDPE, which occur in particularly large amounts. The large 6280 cm² of filtration surface along with our 60 µm (230 mesh) screen size – which is now also available for all Ettlinger filter models – enables qualities that were previously out of reach. High quality film recycling will greatly benefit from the ERF1000 capability. The ERF's high processing reliability, coupled with a powerful control system that was designed with maximum user friendliness in mind, means that only minimal human resources are tied up.

Like all ETTLINGER ERF filters of the MAAG Group, the new ERF 1000 is self-cleaning and works with a rotating, perforated drum, through which there is a continuous flow of melt from the outside to the inside. A scraper removes the contaminants that are held back on the surface and feeds them to the discharge system. As a new feature, the ERF 1000's four filter drums can be individually replaced without disrupting production. The filter can thus run continuously and fully automatically, often over a period of several months at a time, with advantages such as ultra-low melt losses and good mixing and homogenizing of the melts. The large surface area of the drums, along with the continuous cleaning principle, makes it easier to check the process pressures and guarantees a constant pressure during operation. If they already own another ERF melt filter, customers who purchase a ERF 1000 will in the future be able to profit from compatible wearing parts such as screens, frames and scrapers, leading to simplified spare parts management.

Volker Neuber, Director of Recycling Systems: "Legal regulations, consumer and customer requirements irrespective of the industry and rapidly increasing environmental awareness worldwide mean the demand for recycled materials that close recycling loops is growing at an above-average rate. That applies not only to technical components but also to films and containers, for instance. Efficient filters that remove even the tiniest contaminants reliably without any disruptions to the process, even at high throughputs, are vital in order to produce those recycled materials economically. With ETTLINGER's new ERF 1000 MAAG Group does precisely that."

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Photo:		MAAG Group ERF 1000 high performance melt filter
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About the MAAG Group

The MAAG Group is a broadly diversified global solutions provider with integrated and customizable systems in process technology for the polymer, chemical, petrochemical, pharmaceutical and food industries. Its Pump & Filtration Systems, Pelletizing Systems, Pulverizing Systems, and Recycling Systems divisions consolidate the many years of experience and in-depth know-how of the AUTOMATIK, ETTLINGER, GALA, MAAG, REDUCTION, and SCHEER product brands. The MAAG Group currently employs over 1,000 people at production sites in Switzerland, Germany, Italy, the USA, and China. Additional sales and service centers in France, Singapore, Taiwan, Malaysia, India, Thailand and Brazil ensure close attention to customers' needs. For more information visit www.maag.com.

The MAAG Group is a business unit of Dover Fluids, a segment of the Dover Corporation.