BB ENGINEERING
The Valueneering Company®

COBRA

Large-area fine filtration made efficient, simple, and safe.

Challenge accepted: Large-area fine filtration for recycling applications

COBRA was specially developed for challenging filtration tasks with high levels of contamination, particularly in PET recycling. Multitasking is the keyword. COBRA unites large-area fine filtration with simultaneous, fast and effortless cleaning, and is therefore able to handle higher contamination rates which common candle filters would fail on. However, this all-rounder can also be used for other demanding applications, e.g. synthetic fiber spinning.

Large-area fine filtration

COBRA offers a filtration area of up to 24 m² using candles down to 20 µm.

Automated switch-over

The system automatically initiates the cleaning and changeover process. No manual intervention is required. Therefore, the handling effort is reduced to a minimum while process stability is increased.

Self-cleaning

COBRA has an integrated cleaning system, BBE's White Filter Cleaning®, which works solely with superheated steam. The gentle cleaning temperatures extend the service life many times over while the cleaning effort is reduced.

Continuous operation

COBRA consists of a two-chamber housing for uninterrupted production.

Safe system

Filtration and cleaning form a closed system which works without chemicals. So, the operator does not have to handle hot melt or toxic substances.

Highly efficient and cost-saving

Very long service life, low labor costs, gentle cleaning and top filtration performance make COBRA outperform conventional filters in terms of efficiency and costs.

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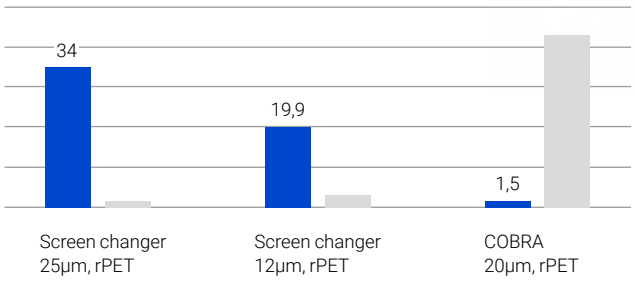
Technical data					
Type	**Candles [pcs]**	**Total filtration area [m²]**	**Max. output [kg/h]**	**Total weight [kg]**	**Dimensions L x W x H [mm]**
COBRA-64	6	5	500	4000	1900 x 1100 x 2900
COBRA-182	18	8	1000	5050	2150 x 1200 x 2400
COBRA-184	18	16	2000	5500	2150 x 1200 x 2900
COBRA-186	18	24	4000	6000	2150 x 1200 x 3400

Advantages over conventional filter types

- **Integrated cleaning and automation**
- **Less material loss** than backflush filters
- Significantly **larger filter surface** than screen changer
- **Finer filtration** than screen changer and laser filter
- **Longer filter lifetime** and **lower temperatures in cleaning** than pyrolysis
- **Significant savings in OPEX**
- **Better fluxrate and therefore, longer service life**

Cleaning performance of COBRA and screen changers in comparison

The COBRA filter achieves significantly better melt purity, which also benefits the downstream process steps. In this example, it is the spin packs of a synthetic fiber spinning mill that have a significantly longer service life.



OPEX savings with COBRA compared to conventional filters

Thanks to its automation and integrated intermediate cleaning, COBRA saves on personnel, energy, parts and material costs.