



Emulsion Mist Separator **SARA® Ultra-Eco Compact (UEC 1000)**

Inexpensive compact air cleaner for water-based aerosols

CLEAN AIR THANKS TO A SOPHISTICATED DESIGN AND SPEZIAL FILTERS

The new emulsion mist separator SARA® Ultra-Eco compact (abbreviated to "UEC 1000", formerly "REVEN® SH") is an outstanding product among the currently available industrial air cleaners and is distinguished by a favourable price-performance ratio, a compact and environmentally sound design and low energy consumption.



Exclusively available at <https://www.saratools.com>

RANGE OF APPLICATION

Cleaning of the exhaust air from processing machines, coating plants and food processing lines. Separation of water-based aerosols such as cooling lubricants or spray mist.



TECHNICAL HIGHLIGHTS

- CFD-optimised, high-performance separating system with a separating efficiency of up to 99.9999 %.
- Particulate air filter integrated with the housing.
- Efficiency and function of the air cleaner proven by CFD flow analysis.
- Long-term use of filters with long replacement intervals thanks to REVEN® LTH particulate filters (LTH = Long-Term HEPA).
- Sustainable air-cleaning concept due to the use of a cleanable, high-performance separating system.
- Fan impeller and motor with energy-efficient eco-design in accordance with the European Directive on Energy-related Products (ErP). Energy-saving potential of up to Euro 1,000 per year compared to traditional air cleaners.
- Housing 100 % rustproof in accordance with the requirements of the German trademark association for stainless steel Warenzeichenverband Edelstahl Rostfrei e.V.
- Designed, constructed and produced in Germany.
- Lifetime guarantee on the high-performance separating system and the corrosion resistance of the housing.

Further information

www.saratools.com

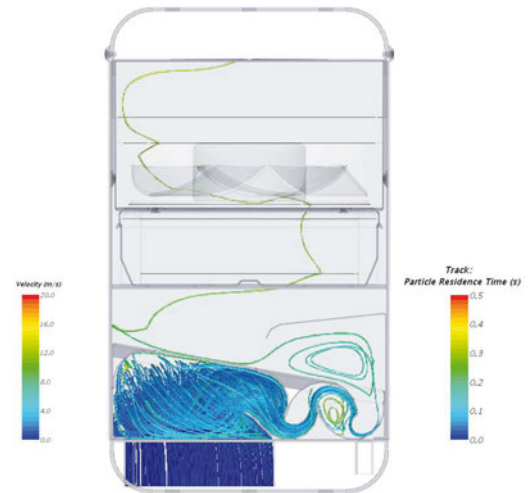


SCIENTIFIC TESTING AND OPTIMISATION WITH THE HELP OF CFD

Rentschler REVEN uses computational fluid dynamics technology to analyse airflow behaviour and optimise separating efficiency in industrial air cleaning. The computer software simulates the airflow behaviour, and the design of the device is continuously improved until the best possible separating efficiency for pollutant particles is achieved.



CFD figure 1:
airflow simulation



CFD figure 2:
behaviour of the pollutant particles

TECHNICAL DATA – SARA® UEC 1000

Extraction volume [m³/h]		Dimensions				Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Connecting diameter DN [mm]	
1*	2*					
500	1000	345	345	595	200	27

- 1* Extraction volume when connected to the extraction system with filter installed.
- 2* Extraction volume in unconnected, free-blowing state without filter.

Electrical data						Noise level [dB(A)]
Voltage [V]		Current [A]		Power [W]		
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
1~230	1~115	1.40	2.50	168		67

