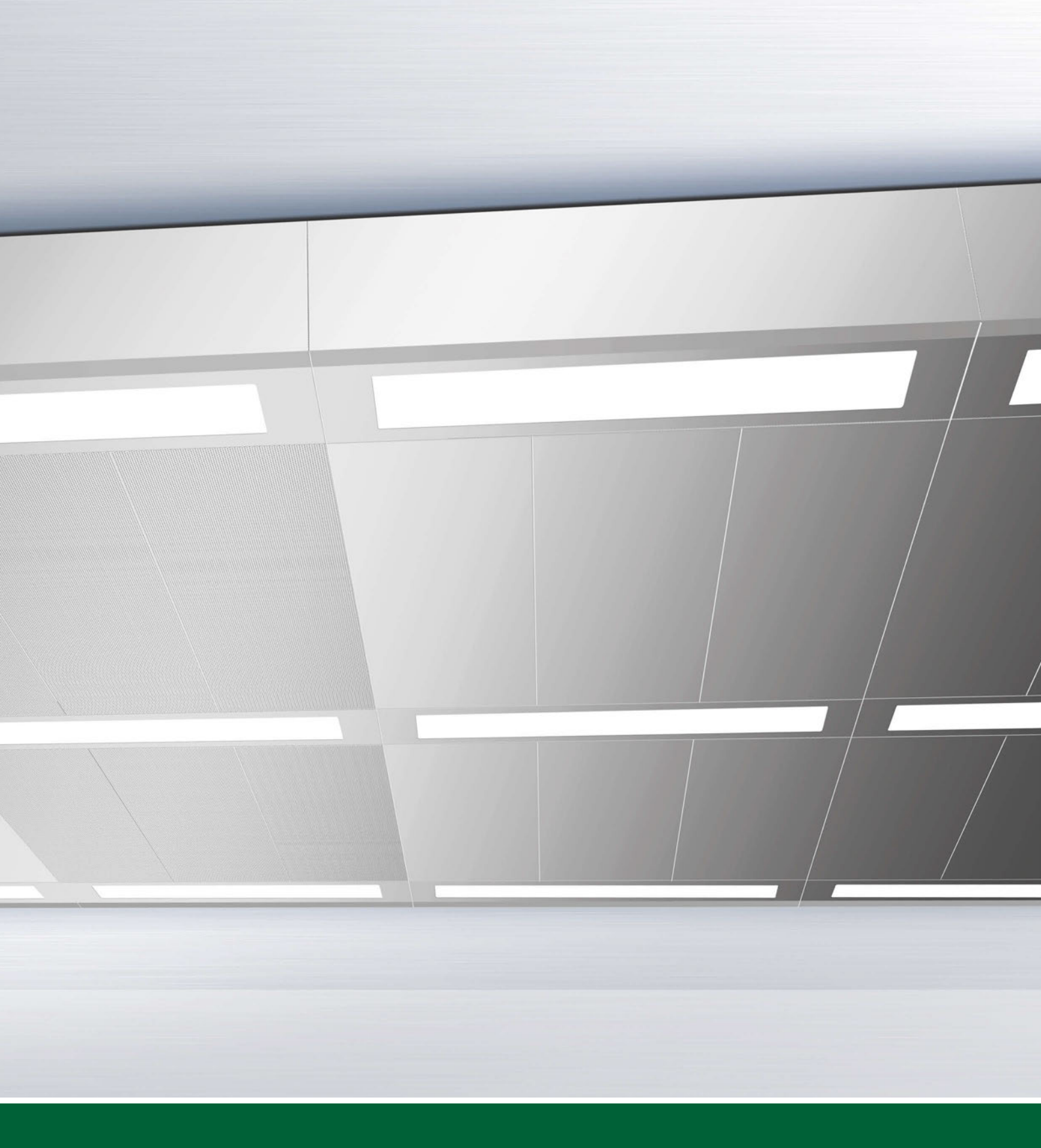




X-CYCLONE[®] DAK and REVEN[®] DQA Series

Exhaust air box filter and low-velocity supply air outlet





RANGE OF APPLICATION

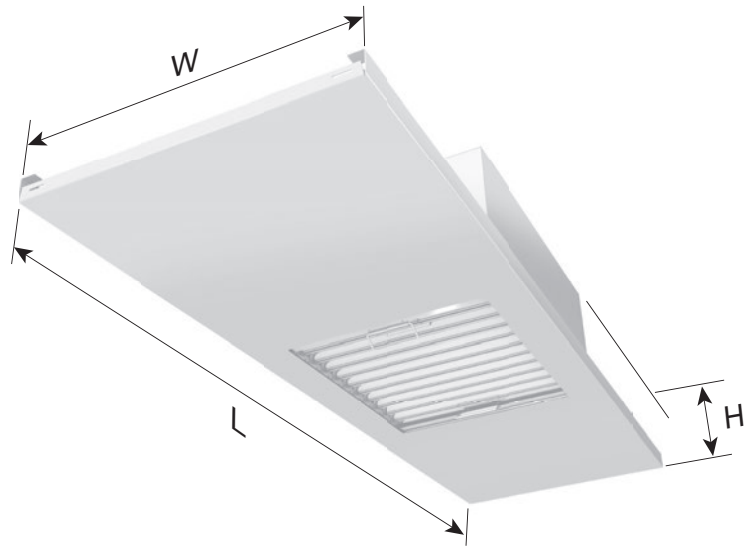
Exhaust air box filter for additional capturing and cleaning of exhaust air from food-production plants and from cooking appliances in commercial kitchens. Suitable for operation in combination with REVEN® ceiling extractors.

Capture and cleaning of steam and hot air with low intensity.

TECHNICAL HIGHLIGHTS

- Exhaust air box filter with integrated high-performance X-CYCLONE® separating system with an efficiency rate of up to 99.9999 %.
- Efficiency and function of the box filter separators proven by CFD flow analysis.
- Sustainable air-cleaning concept thanks to efficient separators and scientifically sound technologies.
- The box filter and all materials used for its production are 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 corrosion resistance of the enclosure.





TECHNICAL DATA – X-CYCLONE® DAK SERIES

Extraction volume [m ³ /h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air socket [mm]	
500	500	500	290	1 x Ø 200	13
1000	1000	500	290	2 x Ø 200	16
1500	1500	500	290	3 x Ø 200	19
2000	2000	500	290	4 x Ø 200	21



RANGE OF APPLICATION

Low-velocity supply air outlet to support air management in food production facilities and commercial kitchens. Suitable for operation in combination with REVEN® ceiling extractors.

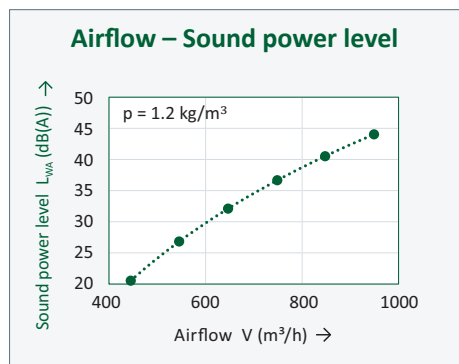
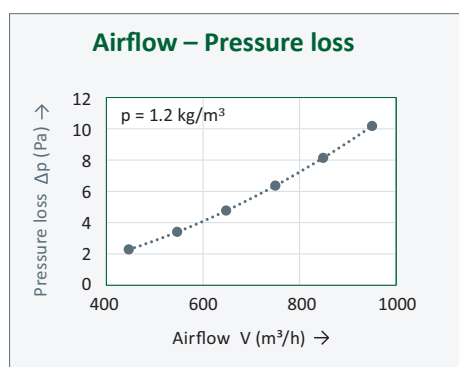
TECHNICAL HIGHLIGHTS

- Box-type enclosure with integrated flow rectifier for a fresh air supply that is free of draughts.
- Perforated metal sheets, optionally available in stainless steel or powder-coated aluminium.
- Efficiency and function proven by CFD flow analysis.
- Flow-optimised design, suitable for food production facilities and commercial kitchens. Deep penetration of fresh air down to the floor area of the kitchen or production shop.
- Minimum pressure loss in the unit.
- Whisper quiet even at maximum power.
- The perforated sheet coffers and all materials used for their production are 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 corrosion resistance of the enclosure.

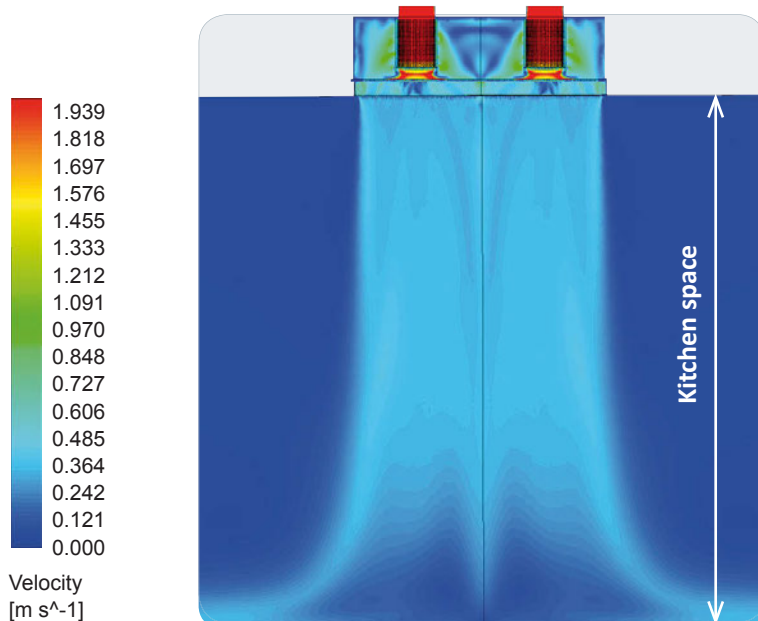


SCIENTIFIC TESTING AND OPTIMISATION WITH THE HELP OF CFD

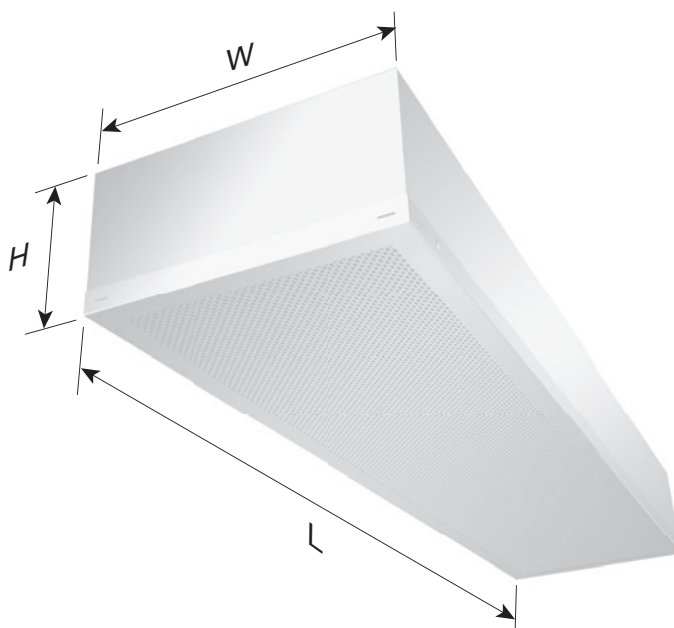
Rentschler REVEN has used CFD technology to optimise the airflow behaviour of supply air units (see figure on the right). The pressure loss in the supply air unit and the associated noise development were also tested in relation to the amount of air blown in (see figure below).



Pressure loss and noise level development with increasing flow rate, unit (1500 x 500 mm).



Vertical cross-section of the REVEN® ECOJET, including the kitchen space below: The CFD analysis shows an optimal, almost vertical air flow from the low-velocity air outlet to the kitchen floor.



TECHNICAL DATA – REVEN® DQA SERIES

Extraction volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Connecting diameter [mm]	
250	500	500	250	1 x 150	7
500	1000	500	250	2 x 150	14
750	1500	500	250	3 x 150	21
1000	2000	500	250	4 x 150	28