Air purifiers

for the manufacturing industry
and food industry

REVENO
SCHAKO Group

Professor Smart

Pure competence in air.

Our air purifiers guarantee you:

- Higher productivity thanks to less downtime for your production facilities!
- Higher quality through more consistent temperature conditions!
- Lower maintenance and cleaning costs thanks to improved air purification!
- Lower personnel costs thanks to safer and more productive workplaces!
- Lower equipment costs thanks to efficient air cleaners!
- Lower consumption costs in your production processes through recovery!
- Lower maintenance costs for your production facilities thanks to highly efficient air cleaners!
- Much longer service life through the use of 100% rust-free stainless steel!
- Low operating costs thanks to energy-saving air cleaners!

That's what our air cleaners stand for, and I stand for it with my name.

Sven Rentschler

Managing Director and great-grandson of company founder Gustav Rentschler

LüKK Trust Award 2017
1st
"Kitchen ventilation"
Awarded by
cci Dialog GmbH

INNOVATION BW
Preisträger
Innovationspreis Baden-Württemberg
Dr.-Rudolf-Eberle-Preis

REVENTA
SCHAKO Group

Content

X-CYCLONE® detection systems

X-CYCLONE® ventilation ceilings

Sven Rentschler, Managing Director and great-grandson of company founder Gustav Rentschler

Clean indoor air and a healthy working environment – detecting and removing airborne contaminants is our core competence!

Welcome to Rentschler REVEN

REVEN = REntschler VENtilation

Backed by decades of experience in the field of air purification, Rentschler REVEN has developed the X-CYCLONE® mechanical separation system. Air pollutants in the form of vapour, mist and similar process exhaust gases are separated from the air to the highest degree. The system operates purely mechanically without auxiliary energy. It is suitable for cleaning and contains no disposable products that need to be replaced regularly. This means that the maintenance, operating and servicing costs are far more economical than with conventional air cleaners!

Pure competence in air.

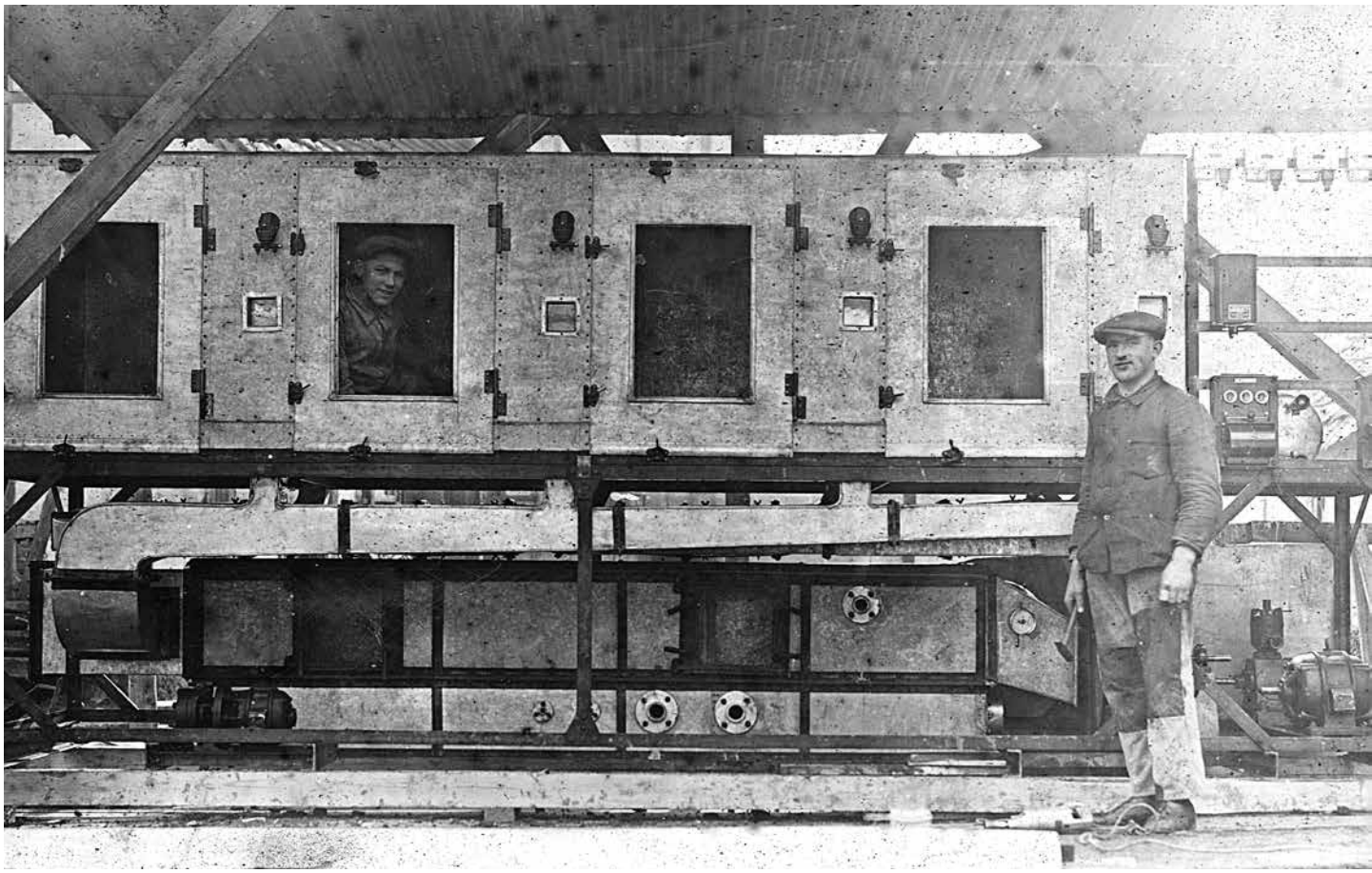
Thanks to our modern ventilation technology, we create a pleasant and healthy working environment in your commercial kitchen or production facility.

TYPICAL AREAS OF APPLICATION FOR AIR PURIFICATION ARE:

- Food processing
- Production and processing in mechanical engineering
- Commercial kitchens in hotels and canteens
- Production processes in the oil and gas industry
- Painting and coating processes
- Finishing processes in the textile industry

REVEN
SCHAKO Group

Rentschler REVEN since 1905



DECADES OF EXPERIENCE IN PLANT ENGINEERING HAVE CREATED A SOLID FOUNDATION FOR SOPHISTICATED PRODUCTS THAT THAT SET THE STANDARD.

The history of Rentschler REVEN began back in 1905, when Gustav Rentschler, the great-grandfather of the current managing director Sven Rentschler, registered Gustav Rentschler Flaschnerei und Apparatebau (Gustav Rentschler Plumbing and Equipment Manufacturing) in the Sersheim trade register. Even at the time of its founding, the company was involved in the construction of equipment and systems for ventilating production facilities and halls.

The family business has always remained true to this field of activity and, over the decades, has specialised in industrial air pollution control. As a result and developed unique expertise in the field of air pollution control over generations.

A whole series of globally valid patents, brand names, design rights and technologies are evidence of this more than 100-year history and development.

Historical development

Milestones in the company's history

1905 Foundation of the craft business "Flaschnerei und Apparatebau" by Gustav Rentschler.

1985 Specialisation of the company in environmental technology and air purifiers for commercial kitchens and the food industry by Peter Rentschler.

1990 First patent application for the X-profile as the basis for X-CYCLONE® technology.

2001 Start of the development of the "Industry" business division.

2012 Patent application for the fifth product generation of the X-CYCLONE® separator with a 20% improvement in efficiency.

2013 Innovation Award from the State of Baden-Württemberg for the X-CYCLONE® technology.

2014 National and international seminars on air pollution control lead to high demand.

Development of international sales capacities.

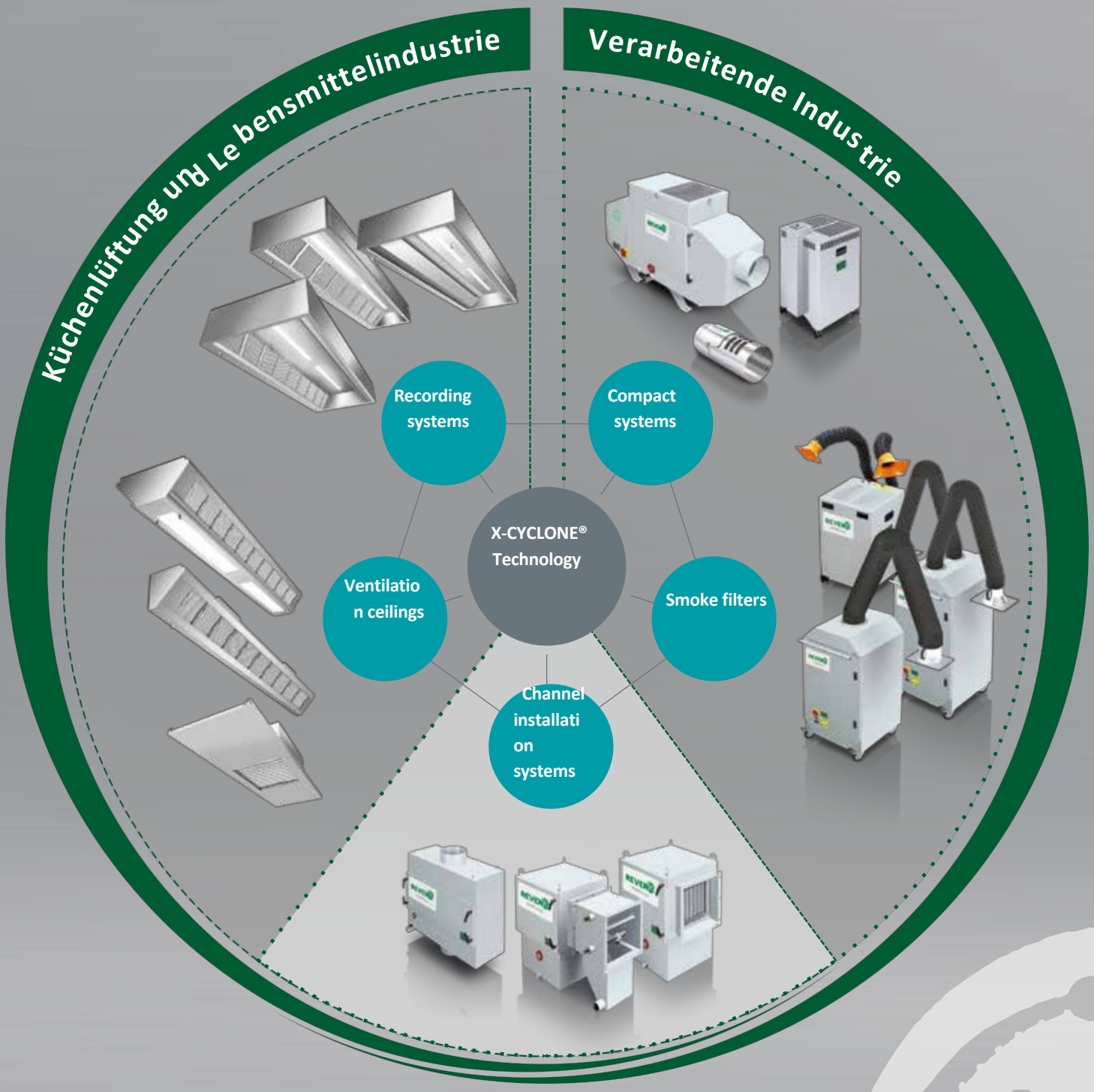
2015 Joining the SCHAKO Group, one of Europe's leading groups of companies in ventilation and air conditioning technology.

2016 Awarded the LüKK (Ventilation, Air Conditioning and Refrigeration Industry) Trust Award by the CCI as a trustworthy company in the ventilation industry.

2017

Product range

Rentschler REVEN offers a wide range of products (over 1,000 variants); in addition to standard products, customised solutions are also available.



Trade fairs, seminars and workshops

We regularly attend the ISH trade fair and present our latest technologies at the SCHAKO Group stand. We also take part in smaller trade fairs in Germany and abroad.

Our seminars offer ventilation planners, operations managers and plant engineers a comprehensive programme of presentations and concentrated expertise on the subject of air pollution control in workshops, production halls and commercial kitchens.

Workshops also offer the opportunity to experience our technologies, systems and products up close in practice. We also offer training courses in our in-house seminar room.

Sales

Our headquarters in the heart of Baden-Württemberg serves customers all over the world. A global network of authorised Rentschler REVEN dealers and service centres, our website with information and documentation, and our catalogue in twelve languages ensure perfect customer service.

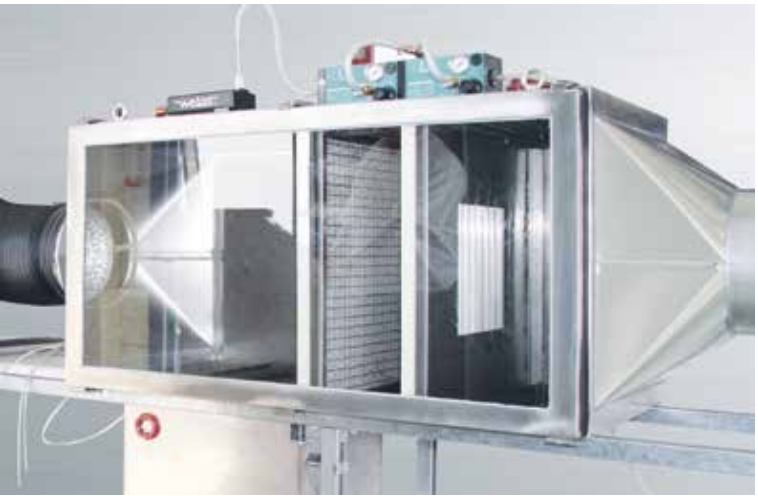
Further information

www.reven.de (company)

Research & Development

All our air purifiers are the result of decades of research and development. Our technicians and engineers use state-of-the-art measuring equipment, software and development tools for development and optimisation. All our products undergo a development process lasting several years, during which the following equipment and facilities are used, among others:

- Flow laboratory with a scattered light spectrometer system that accurately and reliably determines particle concentration and particle size
- Flame test benches in accordance with DIN EN 16282, DIN 18869 and VDI 2052
- Flame ionisation detector (FID) for measuring the total hydrocarbon content
- Mobile, battery-powered handheld laser photometer with scattered light measurement and data logging for real-time measurement of aerosol masses
- High-resolution thermal imaging systems for flow analysis
- Software systems for computational fluid dynamics; the only way to calculate, understand and utilise flows for development purposes
- SolidWorks 3D CAD systems for development and simulation



Production and high-bay warehouse

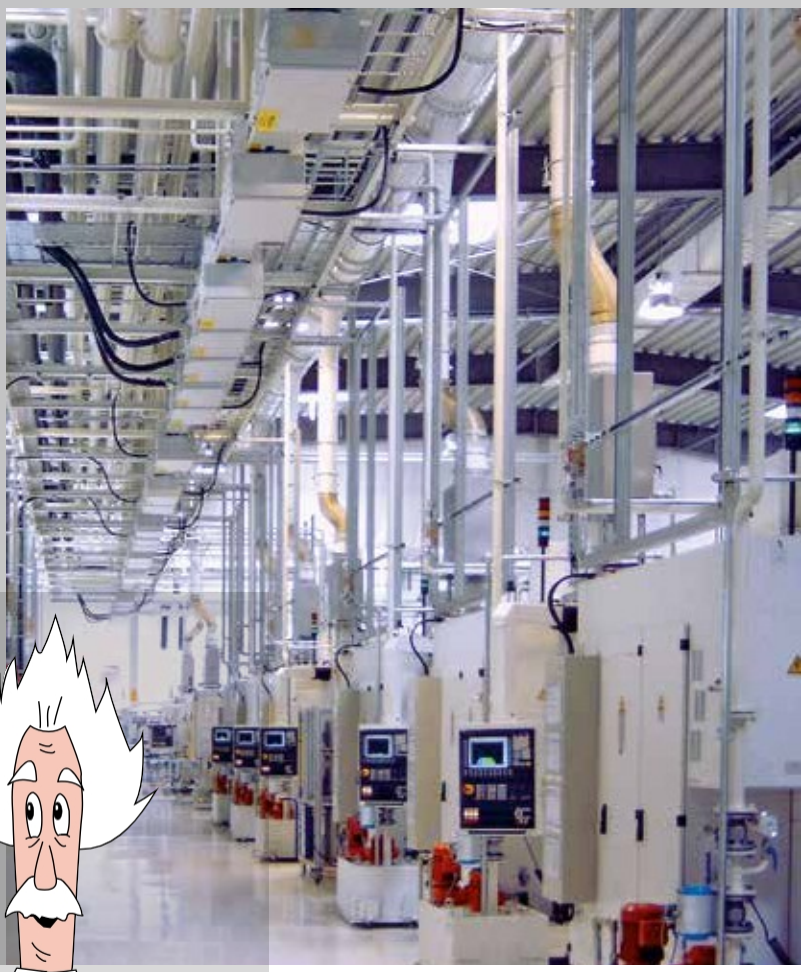
Our production facilities are located in Sersheim in Baden-Württemberg, approx. 30 km north of Stuttgart. All our air purifiers are manufactured at this site.

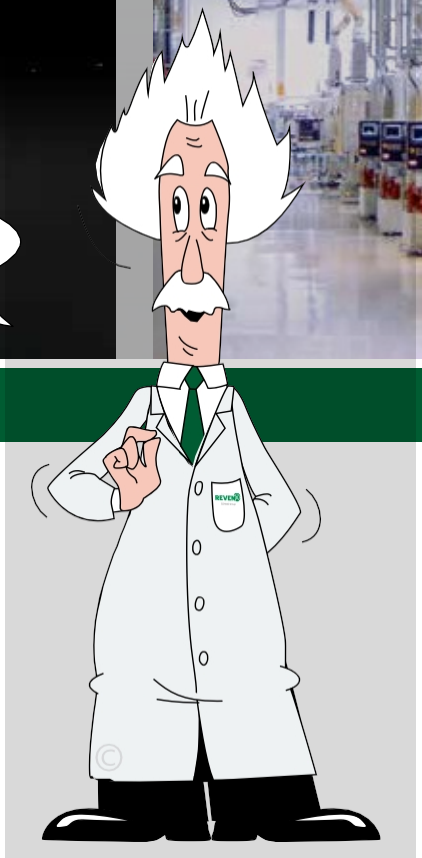
Computer-controlled and automated sheet metal processing machines exclusively process non-rusting stainless steel and aluminium sheets. This guarantees very high and reproducible quality and guarantees 100% corrosion-free products. Automated production machines and a high-bay warehouse enable very short delivery times; up to 80% of our air purifier product range is available immediately from stock!

References

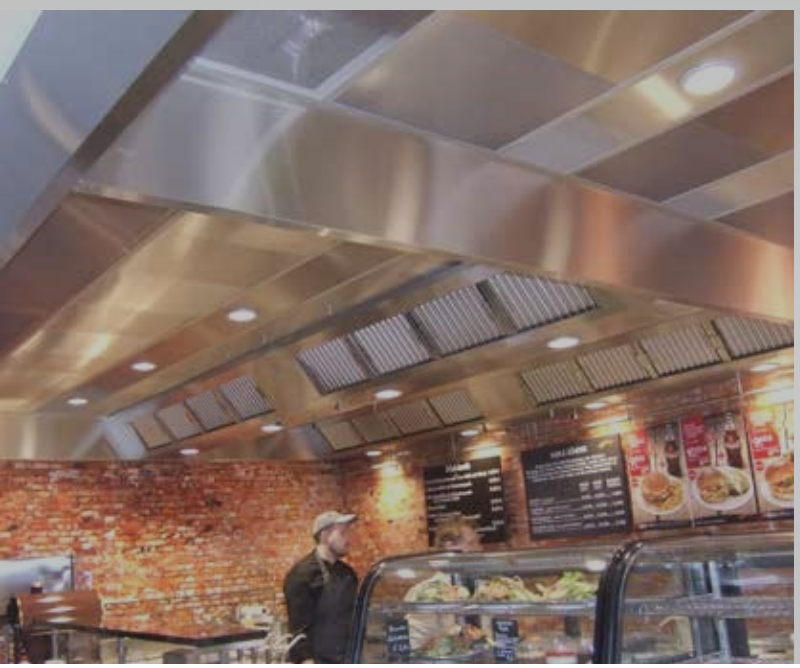
Manufacturing industry

https://www.flickr.com/photos/123764546@N07/sets/72157644256598122





REVEN
SCHAKO Group



References

Food industry

www.flickr.com/photos/123764546@N07/sets/72157644256607512

REVENO
SCHAKO Group

Technologies

X-CYCLONE®, REVEN® and REVEX® technologies

X-CYCLONE® technology with globally valid PCT patent, based on an advanced arrow geometry!

X-CYCLONE® technology was developed for the separation of airborne substances such as aerosols, liquid mists, spray mists, vapour and fine dust released in production processes in the food industry and manufacturing industry.

Thanks to decades of continuous research and development, the fifth generation of X-CYCLONE® air purifiers was unveiled to the world in 2012.

The new air purifiers feature a new arrow geometry and a 20% improvement in separation efficiency.

X-CYCLONE®
The heart of REVEN® products

Made entirely of stainless steel

Stainless steel frame with aluminium profiles

The X-CYCLONE® system is available in two versions:

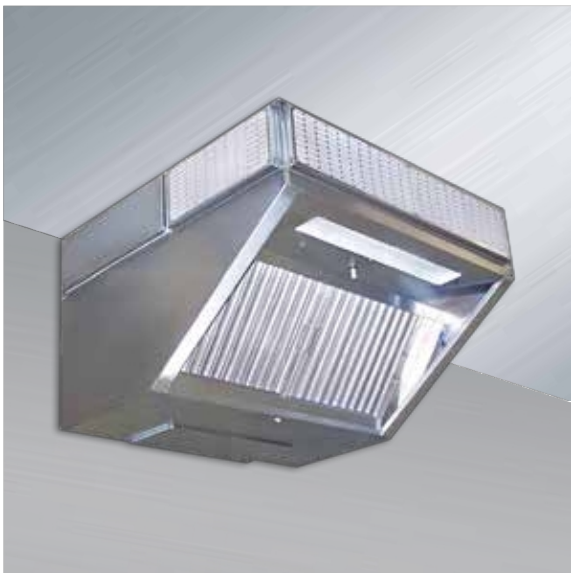
- Completely in stainless steel for the food industry
- With stainless steel frame and aluminium profiles made of a saltwater-resistant alloy for the manufacturing industry

In practice, the X-CYCLONE® system consists of rectangular elements with a thickness of 50 mm. The correct designation is:
X-CYCLONE® aerosol separator base element.

Rentschler REVEN provides a lifetime warranty on X-CYCLONE® basic elements.

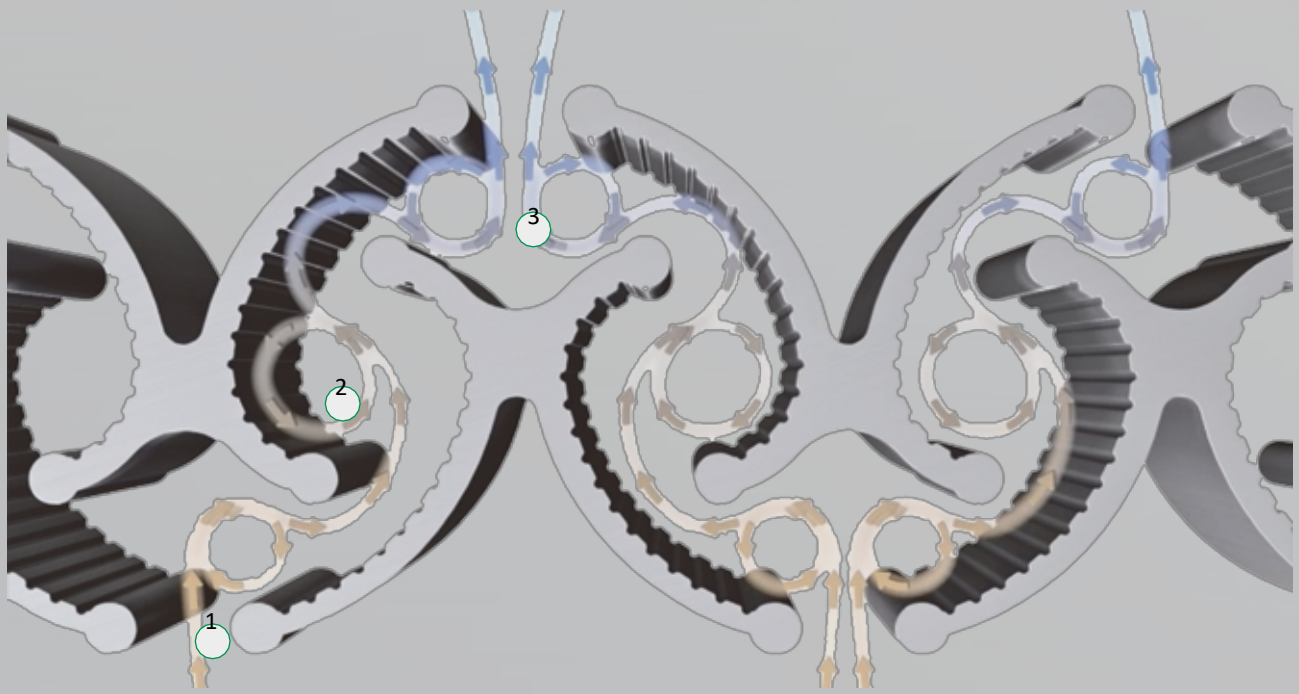
The X-CYCLONE® base element is completely maintenance-free and self-cleaning! The aerosols separated in the base element flow downwards as a fluid mass along the X-CYCLONE® profiles. The flowing liquid also washes away any accumulated solids and flushes them out of the profiles of the base element.

Disposable products that need to be replaced regularly are not required. This makes maintenance, operation and servicing much more economical than with conventional air cleaners.



Functional description of the X-CYCLONE® separation

Separation in an X-CYCLONE® aerosol separator basic element takes place in four stages:



STAGE 1

The exhaust air contaminated with aerosols flows into the X-CYCLONE® basic element. Upon entry , the air flow is greatly accelerated, resulting in initial separation.

STAGE 2

The rapidly accelerated air flow is transformed into a rotational vortex 2, which separates airborne aerosols.

STAGE 3

At the air outlet 3 of the X-CYCLONE® aerosol separator base element, air flows and rotational vortices collide, leading to agglomeration and further separation of small aerosol particles.

STAGE 4

The aerosols separated in the X-CYCLONE® aerosol separator base element adhere to the profile and flow downwards as separated fluid mass 4 in the element.

Even fine dust particles are separated in this way. This However, unlike the fluids, they do not flow (4). downwards

For this reason, the REVEX® system must be integrated when separating dry and sticky fine dust. The REVEX® system is a patented spray technology that has two functions:

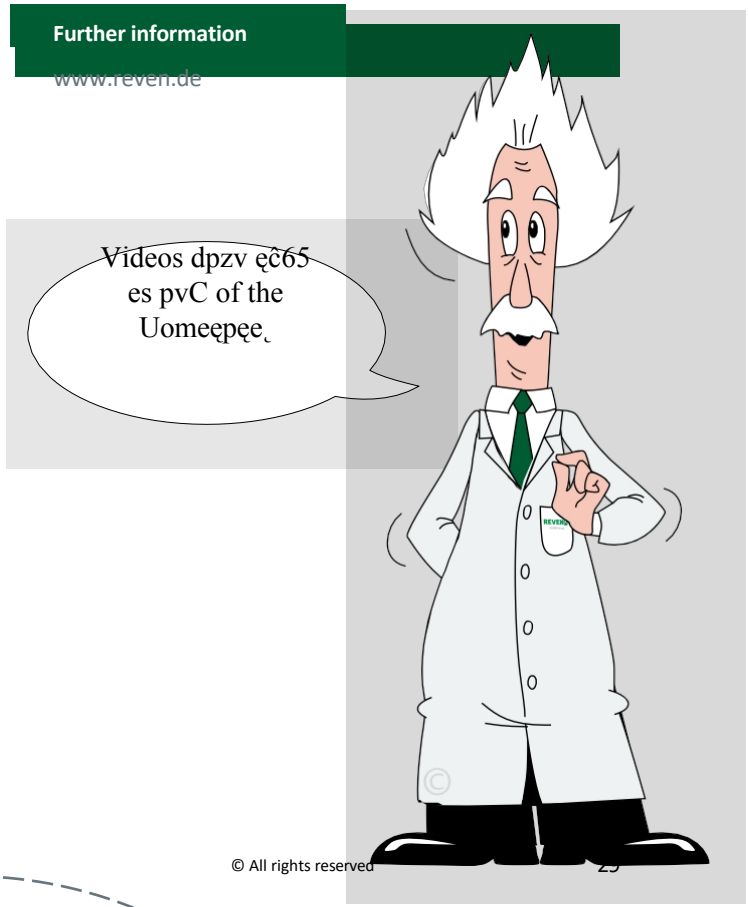
A) It is used for automatic cleaning of the X-CYCLONE® aerosol separator base elements and

B) It purifies the air in a similar way to an air scrubber in the chemical industry. The permanent REVEX® air scrubbing function washes tiny aerosols and harmful gases out of the air stream.

The illustration shows a compact X-CYCLONE®
CR series air cleaners with integrated REVEX® system for automatic cleaning and continuous
Air scrubbing.

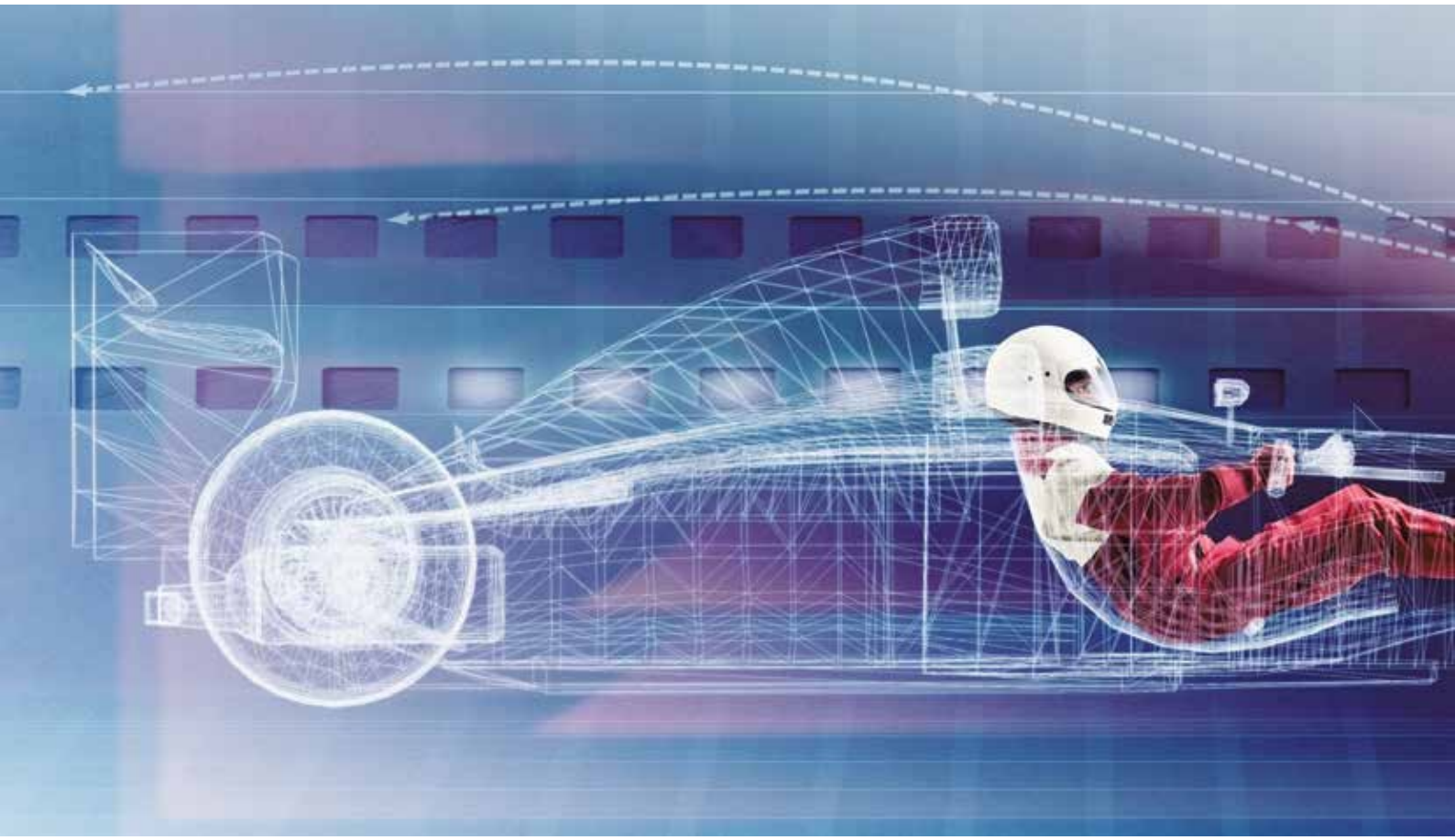
Further information

www.reven.de



CFD simulation

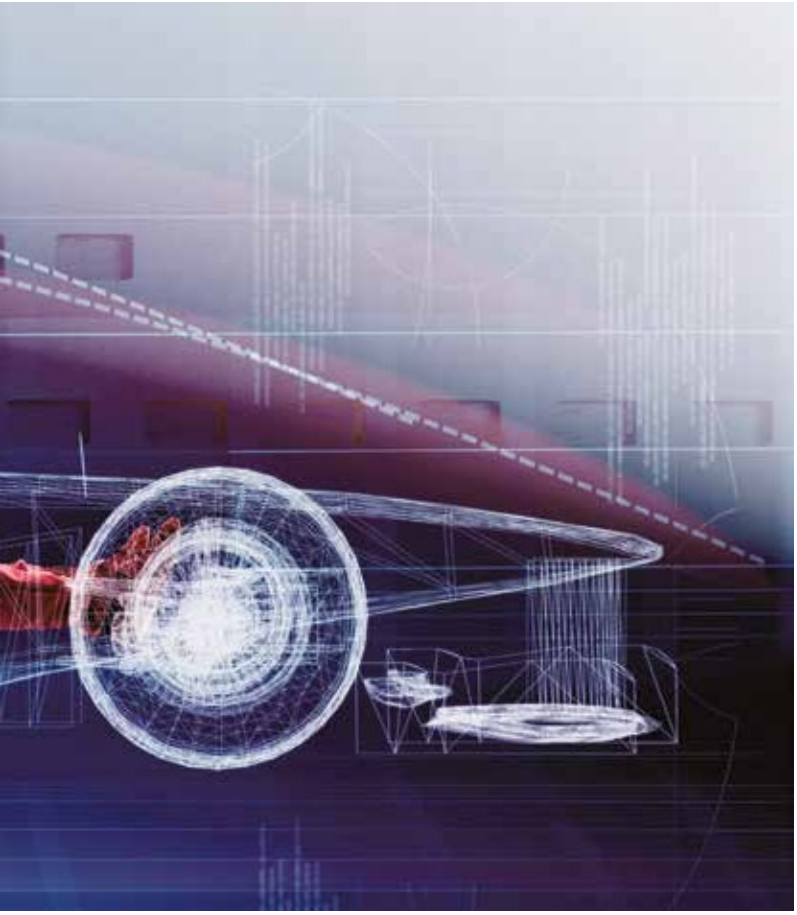
The X-CYCLONE® and REVEN® systems have been continuously analysed and further developed using CFD for many years!



Fluid flows are complex and cannot be analysed analytically. The only way to calculate, understand and utilise them for process and product development is through computational fluid dynamics (CFD) simulation.

Even highly complex air flows at the front and rear wings of modern Formula 1 racing cars are now analysed and optimised by racing teams using CFD simulation.

Whether it's a Formula 1 racing car, an air purifier or a induction hood , smooth operation is essential and efficiently depends on the air currents prevailing inside and in the surrounding area. CFD simulation reproduces these invisible but very important and highly complex processes using well-founded physical and mathematical models. The great advantage of CFD simulation compared to experimental methods and measurements is that it not only provides values at selected points, but also records all physical variables at once, thus enabling the function to be verified.

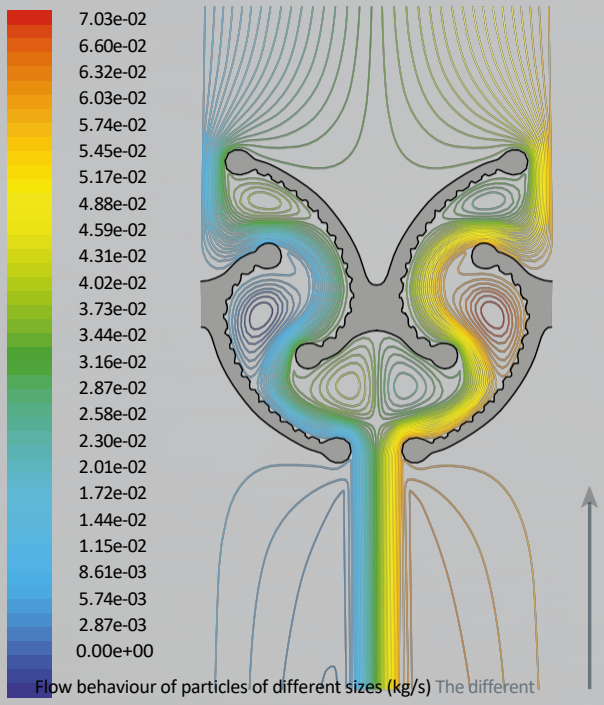


For this reason, we have been analysing and developing our systems for years using CFD flow simulation methods!

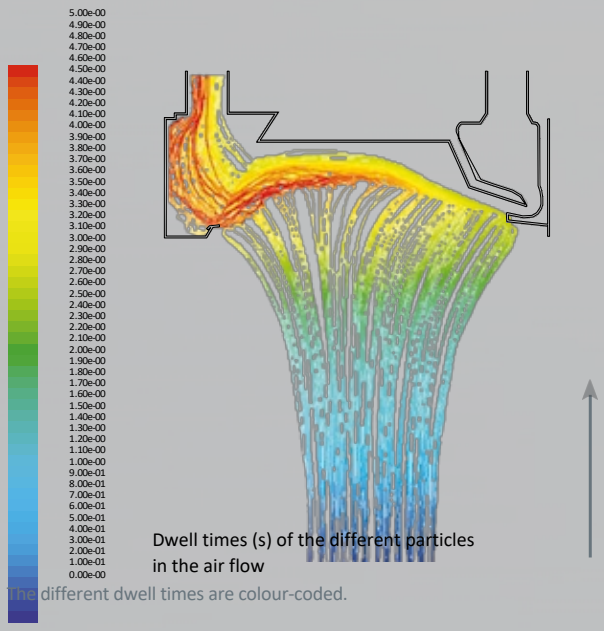
Both our X-CYCLONE® air purification system and our REVEN® induction system were developed with the help of CFD simulation!

Further information

www.reven.de (Technologies → for collection)



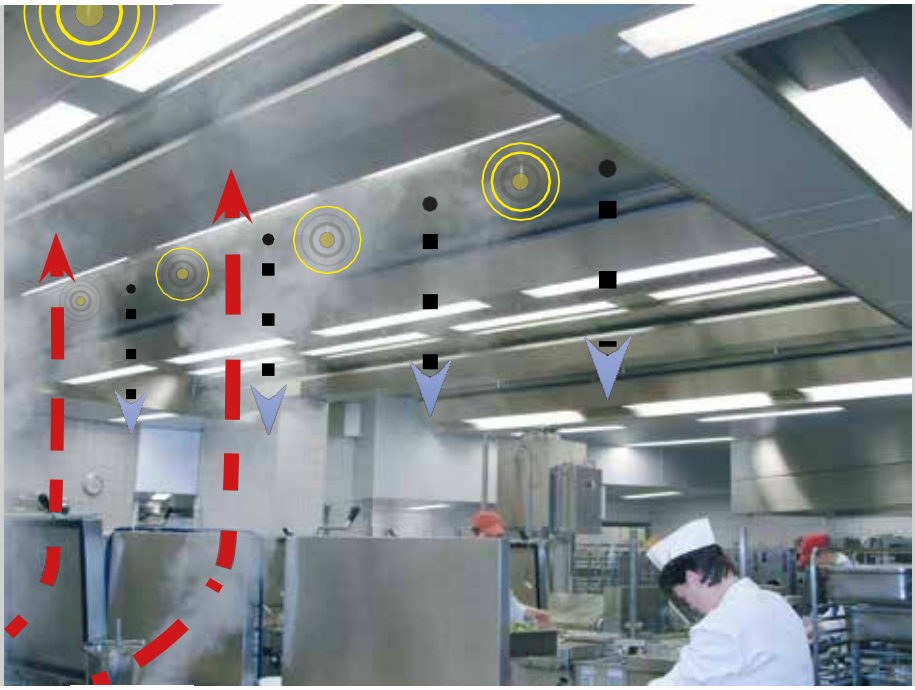
Flow behaviour of particles of different sizes (kg/s) The different particle sizes are colour-coded.

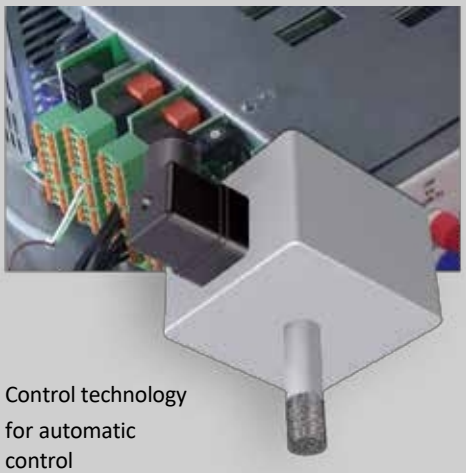


Dwell times (s) of the different particles in the air flow
The different dwell times are colour-coded.

RSC and XSC

Computer-controlled supply/exhaust air control and extraction power



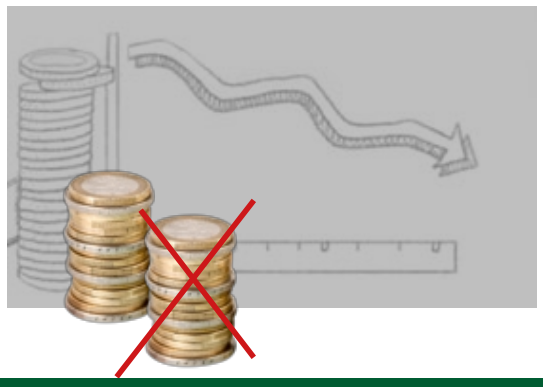


Control technology for automatic control

RSC – REVEN® SPEED CONTROL

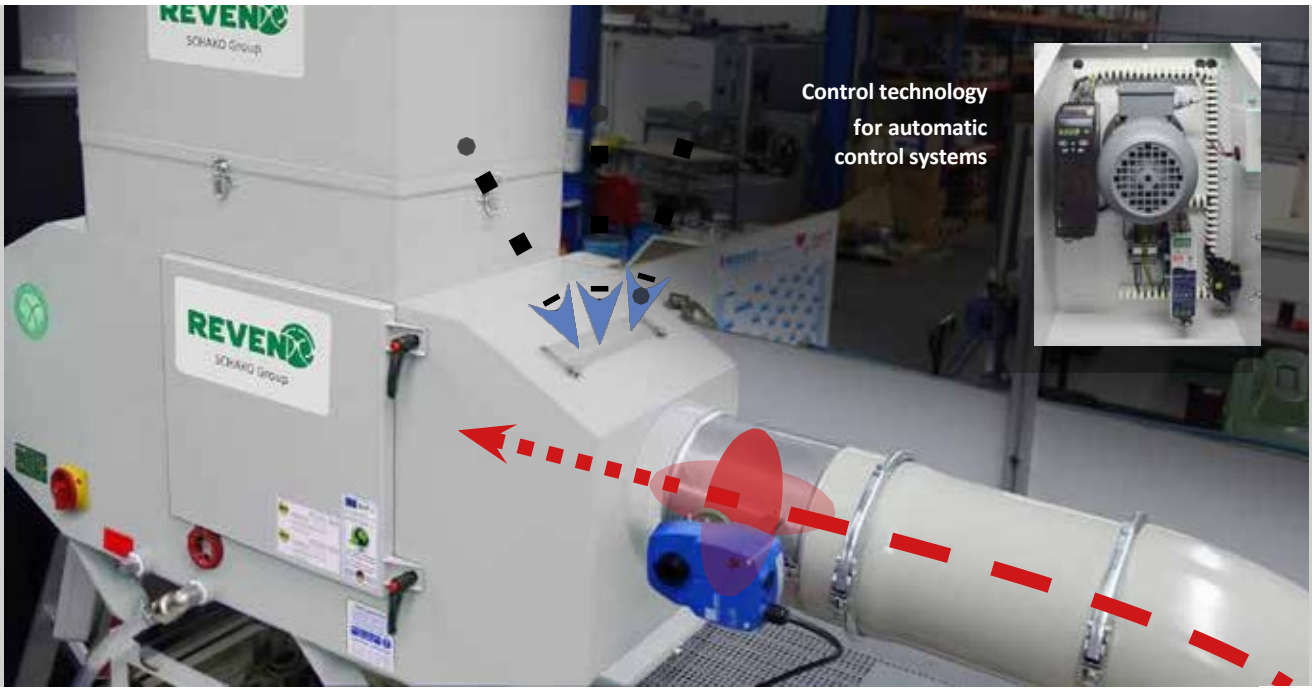
To improve the efficiency of ventilation systems in commercial kitchens, Rentschler REVEN offers the intelligent RSC automatic control system. The system continuously adjusts the speed of the supply and exhaust air fans to cooking activities, in line with the innovative Industry 4.0 standard.

The temperature and humidity sensors are designed for the conditions in commercial commercial kitchens and detect cooking activity. The controller increases or decreases the supply and exhaust air output as required or down as required. At the same time, the required air volumes are distributed to the respective cooking zones via ventilation flaps. This can reduce the energy costs of the ventilation system by up to 50% and extend the service life of downstream air cleaners. It also prevents draughts.



Further information

www.reven.de (Technologies → for regulation and control)



XSC – X-CYCLONE® SPEED CONTROL

As an alternative to conventional on/off control, Rentschler REVEN now offers the XSC digital power controller – based on the innovative Industry 4.0 standard. 4.0. Its sensors measure the machining activity of the machine tool. An intelligent control system with a microcomputer uses ventilation flaps and an optional frequency converter to ensure infinitely variable control of the extraction power. The aerosol separator communicates with the machine to be extracted.

, the power consumption of the extraction system can be halved and, thanks to a patented Venturi ventilation and condensation system, the separation efficiency can be increased by up to 50%. In addition, the sliding control extends the intervals between filter cleaning and their service life.

Further information

www.reven.de (Technologies → for regulation and control)

Limit values

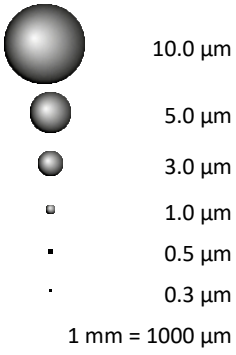
Clean air for employees in industry

Machining processes on machine tools and food processing generate high concentrations of PM10 aerosols.

PM10 aerosols are airborne particles with a diameter of less than 10 µm.

The graphic comparison with a human hair clearly illustrates the size ratio between a five-micrometre particle and the diameter of a human hair.

The concentration of these airborne PM10 particles can reach considerable levels. In a volume of air of one thousand cubic metres, PM10 concentrations of up to 500 grams can occur!



The limits for air pollution in the manufacturing industry vary considerably from country to country and are also tested and monitored in very different ways. However, as many different studies have now shown that even air pollution in cities has a significant impact on health and mortality rates, Rentschler REVEN bases the design and dimensioning of its products on the much stricter air limits that apply to large cities around the world: In many large cities, a maximum value of 50 micrograms of particulate matter per cubic metre of air applies. Rentschler REVEN's quality standard is: The air quality required for people in the world's major cities and the limits applicable there must also be achieved for those working in industry!

The picture shows the city centre of Brussels. The air in industrial plants must also be of this quality!

Please also refer to the following interview with our managing director Sven Rentschler in Germany's leading mechanical engineering magazine "maschine+werkzeug", issue 10/2011, page 72.

Technology from Rentschler REVEN for healthy air in the workplace

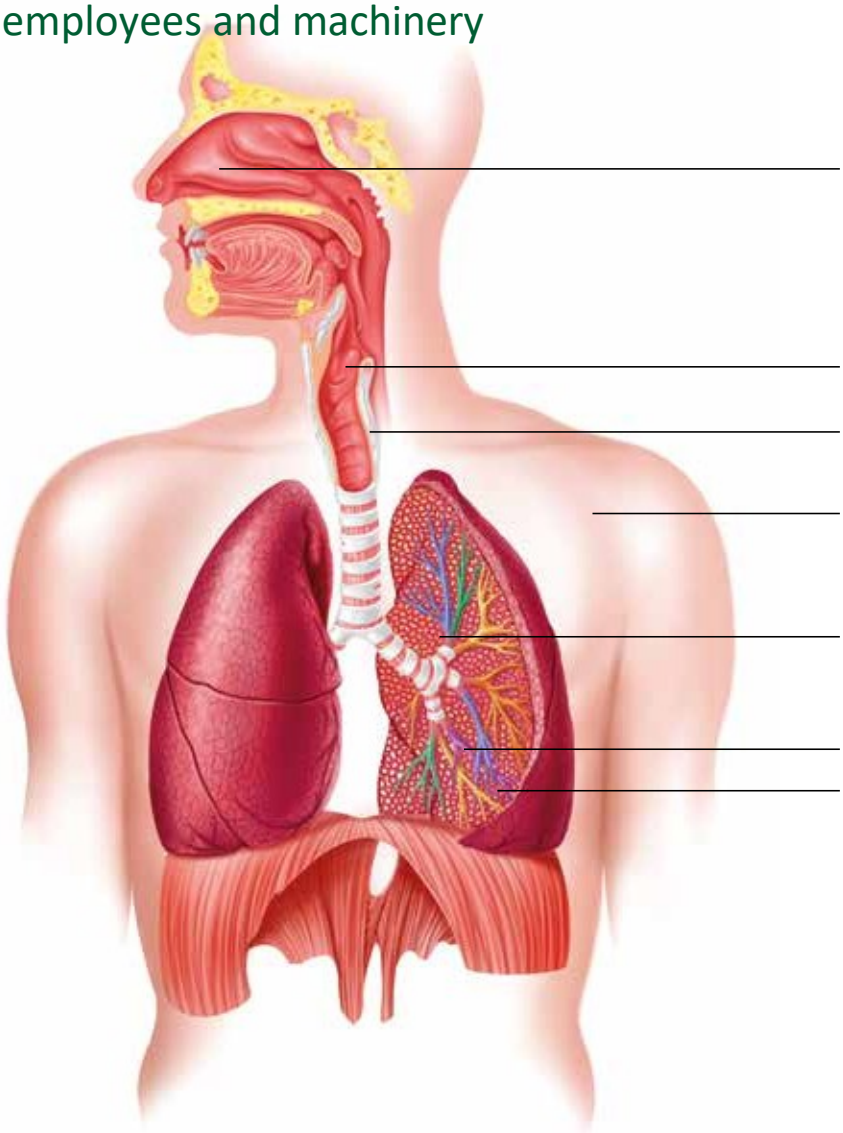
X-CYCLONE® complies with protection regulations

Protection for employees and machinery

INHALATION
Gases, vapours, dusts, aerosols

INGESTION
Dusts and liquids

SKIN ABSORPTION
Dusts and liquids



According to scientific findings, fine dust and free-floating aerosols with a droplet diameter of less than 5.0 µm pose an increased risk to the health of employees. These particles can enter the lungs directly through respiration and cause asthma, pulmonary fibrosis or other serious respiratory diseases. In addition, fine particles are risk factors for a wide variety of cancers. The particles are not

Not only through the respiratory tract, but also through the oesophagus and skin.

Not to be forgotten is the potential damage to sensitive equipment and machinery, as well as buildings and, of course, the impact on the environment.

Interview with Sven Rentschler

Excerpt on the topic of limit values

What are the limits for air purifiers? The issue of particulate matter pollution in outdoor air has been debated for years. Traffic and industry are the main focus of this debate. Particulate matter refers to the mass of all particles contained in total dust with a diameter of less than 10 micrometres. Studies by the World Health Organisation have found that high concentrations increase the incidence of respiratory and cardiovascular diseases. To protect public health, the authorities have consequently set limit values for outdoor air: since 2005, a uniform daily limit value of 50 micrograms per cubic metre has applied throughout Europe.

metres of air. In the wake of this regulation, a sticker system for inner-city car traffic was introduced, among other things.

And what are the limit values at the workplace?

The permissible air limit value is 10 milligrams per cubic metre for cooling lubricant vapours and aerosols with a flash point above 100 degrees Celsius, which are released during metalworking. The same value also applies to machine tools with minimum quantity lubrication. That is two hundred times the permissible value for outdoor air!

Is all fine dust the same?

The fine dust in cities is certainly not the same as that found on a machine tool. This is not fine dust in the conventional sense, but rather cooling lubricant particles that are released during machining. However, these cooling lubricant vapours and aerosols are very similar to fine dust particles in terms of particle size and hazard potential. With a diameter of less than 10 micrometres, the cooling lubricant particles enter the bloodstream via the lungs and are therefore particularly harmful to health. It is incomprehensible that studies have shown that even 50 micrograms outdoors can lead to a measurable reduction in life expectancy, while the man working at the machine is expected to tolerate 200 times that amount. This does not add up.

Is the health risk only present directly at the machine?

No. In metalworking, the air in the hall is often extracted, cleaned and then returned to the hall. Experience shows that many of these systems achieve a filter performance of barely two milligrams of cooling lubricant vapours and aerosols per cubic metre of cleaned air. This is still forty times higher than the permissible value for outdoor air, which is what factory workers are expected to tolerate. Professional associations should address this issue as soon as possible and bring the regulations up to a reasonable standard.

You also carry out particle measurements in factories. What are your findings?

You find the whole spectrum. From production facilities that are almost clinically clean to factories where even the limit value of 10 milligrams is far exceeded. Although the processing machines bear the CE label, they can still be operated without an effective filter, which many machine manufacturers only offer as an option. I find that incomprehensible.

Are there any positive examples?

There certainly are. More and more corporations are setting their own standards, which they then apply worldwide. Volkswagen, for example, has very high standards in its production facilities when it comes to air quality. I also know that GM and Ford have internal guidelines that go much further than the government regulations.

Interview in Germany's leading Machine engineering magazine "maschine + werkzeug"

Issue 08/2011 on page 72.

Test bench for flame exposure testing

Flame exposure test in accordance with DIN 18869-5 and DIN EN 16282-6

During machining processes on machine tools and in food processing, high concentrations of highly flammable aerosols often need to be extracted and separated.

If these aerosols ignite in an exhaust air duct, the flames can spread through the exhaust air duct throughout the entire building and set entire building complexes on fire within minutes.

To prevent this, all our X-CYCLONE® aerosol separator base elements are tested on our test benches for flame resistance in accordance with national and international standards.

REVEN® oil mist separators successful in explosion tests

Our X-CYCLONE® basic elements meet all German and European requirements for flame resistance! Even their positive behaviour in explosions has been tested and documented!

documented!

Compact systems

Compact plug-in air cleaners

REVENO
SCHAKO Group

X-CYCLONE® C-XSC series

Compact air cleaners for water-based aerosols

REVENO
SCHAKO Group

X-CYCLONE® C-XSC series

APPLICATION

Cleaning the exhaust air from processing machines, coating systems or food processing lines. Separation of water-containing aerosols, such as cooling lubricants or spray mists.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Sustainable air purification concept through the use of cleanable separators.
- Digital fan module XSC for quick commissioning, flexibility and high performance.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £2,000 per year compared to conventional air cleaners.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Stainless steel agglomerator system for PM2.5 particles.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Intelligent function display.
- Designed, engineered and manufactured in Germany.
- Modern design protected worldwide by international design patents.

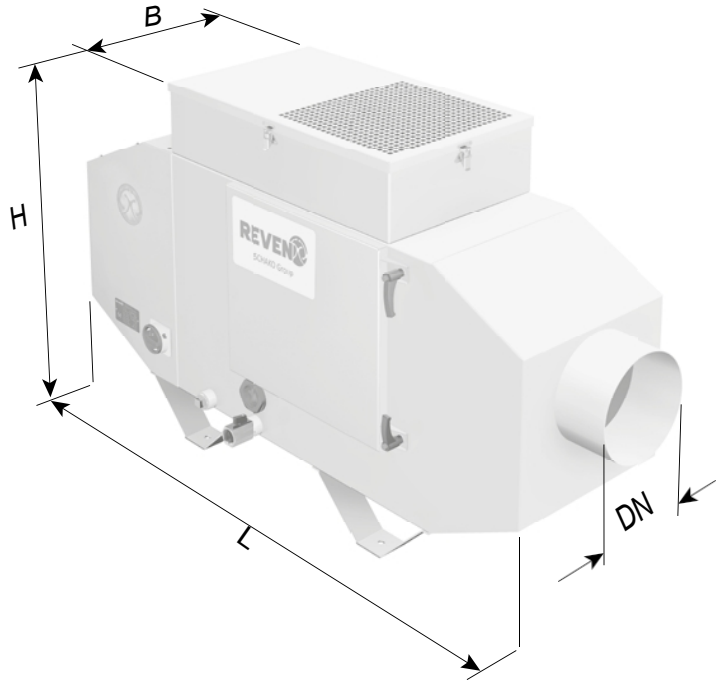
Further information

www.reven.de (Technologies → for regulation and control)

- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the housing.

ACCESSORIES

- REVEN® Pipe.
- EUREVEN® F2011 filters with moisture-repellent synthetic filter media, easy to clean, suitable for light smoke development.
- Heavy-duty particulate filter attachment, suitable for heavy smoke.
- Self-cleaning REVEX® HEPA filters, suitable for aerosols with ultra-fine solid and liquid particles.
- Honeycomb agglomerator, suitable for high water vapour content.



- Chip guard, activated carbon filter and bag filter.
- Extraction hoses, collection hoods and consoles.

TECHNICAL DATA – X-CYCLONE® C-XSC SERIES

Device type	Air volume [m³/h]		Electrical data						Dimensions				Weight [kg]	Noise level [dB(A)]
			Voltage [V]		Current [A]		Power 3* [W]		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
	1*	2	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz						
C-1-XSC	500	1000	3~400	3~460	0.42	0.42	232	267	1016	360	765	150	40	50
C-2-XSC	800	1500	3~400	3~460	0.50	0.50	298	343	1065	360	765	150	46	63
C-3-XSC	1200	2600	3~400	3~460	0.80	0.80	466	535	1200	370	765	200	54	65
C-4-XSC	1700	4000	3~400	3~460	1.90	1.90	1106	1272	1250	450	845	300	78	67
C-5-XSC	2500	4500	3~400	3~460	2.10	2.10	1208	1472	1280	550	925	300	110	67
C-6-XSC	4000	6800	3~400	3~460	3.90	3.90	2405	2765	1360	655	1045	400	152	72
C-7-XSC	6500	10500	3~400	3~460	6.20	6.20	3823	4396	1400	820	1205	500	240	72

1* Air volume when installed with two-stage filter assembly. 2* Air volume when blowing freely, not installed and without filter.
3* Performance data refers to operating performance. Other voltages available on request.

X-CYCLONE® CR-XSC series

Compact air cleaners with REVEX® spray technology

REVENO
SCHAKO Group

X-CYCLONE® CR-XSC series

APPLICATION

Cleaning of exhaust air from cleaning systems, casting machines, hardening furnaces, carbon fibre or plastic processing systems. Separation of dry, sticky, solid and vapour-like substances.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Patented REVEX® spray technology with cleaning and air washing function.
- Sustainable air purification concept through the use of cleanable separators.
- Digital fan module XSC for quick commissioning, flexibility and high performance.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £2,000 per year compared to conventional air cleaners.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Stainless steel agglomerator system for PM2.5 particles.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Intelligent function display.
- Designed, engineered and manufactured in Germany.
- Modern design protected worldwide by international design patents.

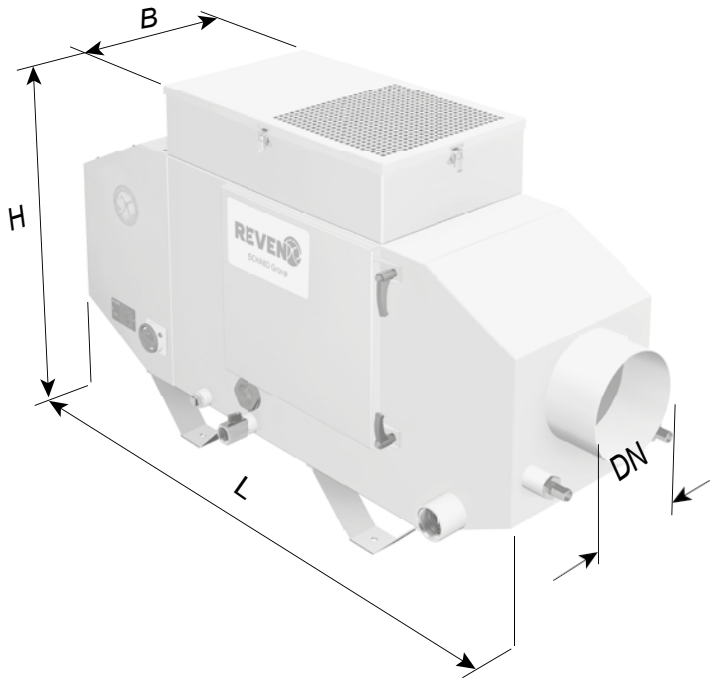
Further information

www.reven.de (Technologies → for regulation and control)
www.reven.de (Technologies → for disinfection and cleaning)

- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the housing.

ACCESSORIES

- EUREVEN® F2011 filter with moisture-repellent synthetic filter medium, easy to clean, suitable for light smoke development.
- Suspended matter filter attachment, suitable for heavy smoke development.
- Self-cleaning REVEX® HEPA filters, suitable for aerosols with ultra-fine solid and liquid particles.
- Honeycomb agglomerator, suitable for high water vapour content.



- Chip guard, activated carbon filter and bag filter.
- Suction hoses, collection hoods and consoles.

TECHNICAL DATA – X-CYCLONE® CR-XSC SERIES

Device type	Air volume [m³/h]		Electrical data						Dimensions				Weight [kg]	Noise level [dB(A)]
			Voltage [V]		Current [A]		Power 3* [W]		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
	1	2	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz						
CR-2-XSC	700	1500	3~400	3~460	0.50	0.50	298	343	1065	360	765	150	52	63
CR-3-XSC	1100	2600	3~400	3~460	0.80	0.80	466	535	1200	370	765	200	60	65
CR-4-XSC	1600	4000	3~400	3~460	1.90	1.90	1106	1272	1250	450	845	300	84	67
CR-5-XSC	2400	4500	3~400	3~460	2.10	2.10	1208	1472	1280	550	925	300	116	67
CR-6-XSC	3800	6800	3~400	3~460	3.90	3.90	2405	2765	1360	655	1045	400	158	72
CR-7-XSC	6300	10500	3~400	3~460	6.20	6.20	3823	4396	1400	820	1205	500	246	72

1* Air volume when installed with three-stage filter assembly. 2* Air volume when blowing freely, not installed and without filter.
3* Performance data refers to operating performance. Other voltages available on request.

X-CYCLONE® CE-XSC series

Electrostatic air cleaners for oil-containing aerosols

REVENO
SCHAKO Group

X-CYCLONE® CE-XSC series

APPLICATION

Cleaning the exhaust air from processing machines, coating systems or food processing lines. Separation of oil-containing aerosols, such as cooling lubricants or spray mists.

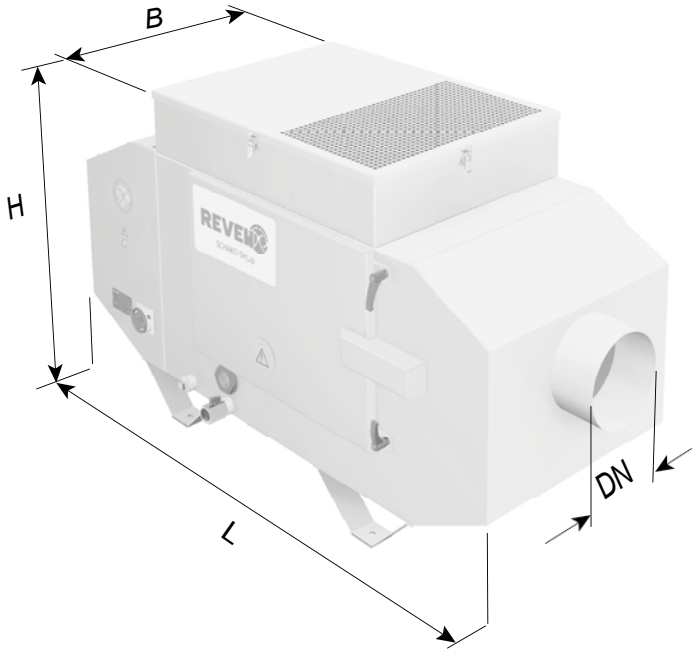
TECHNICAL HIGHLIGHTS

- Combination system consisting of a patented X-CYCLONE® high-performance separation system and electrostatic filter with a separation efficiency of up to 99.9999%.
- Compliance with ozone limit values.
- Sustainable air purification concept through the use of cleanable separators.
- Digital fan module XSC for quick commissioning, flexibility and high performance.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £2,000 per year compared to conventional air cleaners.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Stainless steel agglomerator system for PM2.5 particles.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Intelligent function display and intelligent high-voltage module.
- Designed, engineered and manufactured in Germany.
- Modern design protected worldwide by international design patents.

Further information

www.reven.de (Technologies → for regulation and control)

- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the housing.



ACCESSORIES

- REVEN® Pipe.
- Floating particle filter attachment, suitable for heavy smoke development.
- Self-cleaning REVEX® HEPA filters, suitable for aerosols with ultra-fine solid and liquid particles.
- Agglomerator system made of glass fibre fabric for PM1.0 particles.
- Chip guard, activated carbon filter and bag filter.
- Extraction hoses, collection hoods and consoles.

TECHNICAL DATA – X-CYCLONE® CE-XSC SERIES

Device type	Air volume [m³/h]		Collectors	Electrical data						Dimensions				Weight [kg]	Noise level [dB(A)]
				Voltage [V]		Current [A]		Power 3* [W]		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
	1	2		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz						
CE10-1-XSC	1000	1500	1	3~400	3~460	0.60	0.60	357	411	1335	560	810	200	117	65
CE10-2-XSC	1000	1500	2	3~400	3~460	0.60	0.60	357	411	1540	560	810	200	143	65
CE10-3-XSC	1000	1500	3	3~400	3~460	0.60	0.60	357	411	1755	560	810	200	169	65
CE17-1-XSC	1700	2600	1	3~400	3~460	1.05	1.05	611	703	1375	525	900	200	121	67
CE17-2-XSC	1700	2600	2	3~400	3~460	1.05	1.05	611	703	1590	525	900	200	148	67
CE17-3-XSC	1700	2600	3	3~400	3~460	1.05	1.05	611	703	1800	525	900	200	175	67
CE25-1-XSC	2500	4500	1	3~400	3~460	1.99	1.99	1213	1395	1375	650	900	300	150	70
CE25-2-XSC	2500	4500	2	3~400	3~460	1.99	1.99	1213	1395	1590	650	900	300	185	70
CE25-3-XSC	2500	4500	3	3~400	3~460	1.99	1.99	1213	1395	1800	650	900	300	219	70

1* Air volume when installed with filter.
2* Air volume blowing freely when not installed without filter. 3*
Performance data refers to operating performance.
Other voltages available on request.

X-CYCLONE® RJ series

Inexpensive and compact air cleaners for water-based aerosols

REVENO
SCHAKO Group

X-CYCLONE® RJ Series

APPLICATION

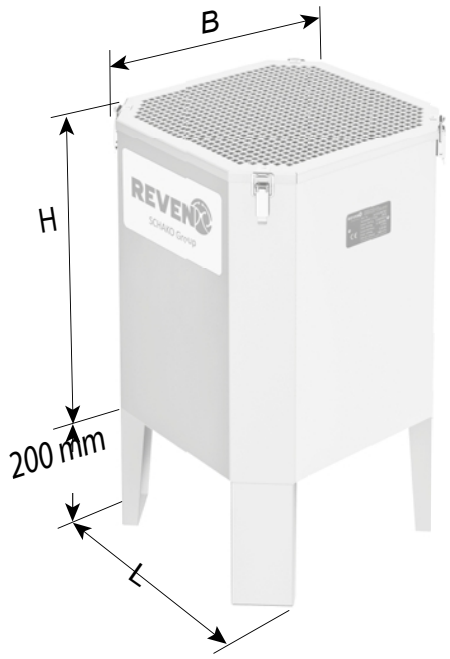
Cleaning exhaust air from processing machines, coating systems or food processing lines. Separation of water-containing aerosols, such as cooling lubricants or spray mists.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Sustainable air purification concept through the use of cleanable separators.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £850 per year compared to conventional air cleaners.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the Edelstahl Rostfrei e.V. trademark association.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- EUREVEN® F2011 filter attachment with moisture-repellent and cleanable synthetic filter medium, suitable for light smoke development.
- Suspended particle filter attachment, suitable for heavy smoke development.
- Stainless steel agglomerator system for PM2.5 particles.
- Honeycomb agglomerator, suitable for high water vapour content.
- REVEN® TEC pipe for condensing water and oil vapours.
- Chip guard, activated carbon filter and bag filter.
- Suction hoses, collection hoods and consoles.
- A set of device feet.



TECHNICAL DATA – X-CYCLONE® RJ SERIES

Device type	Air volume [m³/h]		Electrical data						Dimensions				Weight [kg]	Noise level [dB(A)]
			Voltage [V]		Current [A]		Power 3* [W]		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
	1*	2	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz						
RJ-1	400	700	1~230	1~115	0.80	1.20	84		300	300	230	100	10	40
RJ-2	1000	1500	3~400	3~460	0.90	0.77	400		410	410	480	160	26	63
RJ-3	1400	2600	3~400	3~460	1.61	1.43	650		410	410	480	160	30	65

1* Air volume when installed with filter.
2* Air volume blowing freely when not installed without filter. 3*
Performance data refers to operating performance.
Other voltages available on request.

Emulsion mist separator SARA® Ultra-Eco compact (UEC 1000)

Inexpensive and compact air cleaner for water-based aerosols

CLEAN AIR THANKS TO A SPECIAL DESIGN AND SPECIAL FILTERS

The new SARA® Ultra-Eco compact emulsion mist separator (abbreviated "UEC 1000", formerly "REVEN® SH") stands out among industrial air purifiers thanks to its good price-performance ratio, compact and environmentally friendly design, and low energy consumption.

SARA® UEC 1000

APPLICATION

Purification of exhaust air from processing machines, coating systems or food processing lines. Separation of water-containing aerosols, such as cooling lubricants or spray mists.

TECHNICAL HIGHLIGHTS

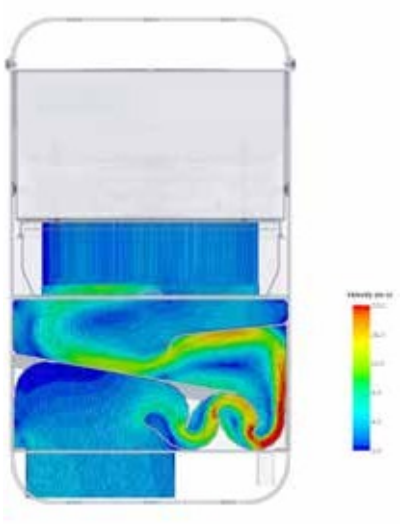
- CFD-optimised high-performance separation system with a separation efficiency of up to 99.9999%.
- Integrated particulate filter.
- Long operating times without filter changes thanks to REVEN® LTH particulate filters (LTH = Long-Term HEPA).
- Sustainable air purification concept through the use of a cleanable high-performance separation system.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £1,000 per year compared to conventional air cleaners.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on the high-performance separation system and the rust resistance of the housing.

Further information

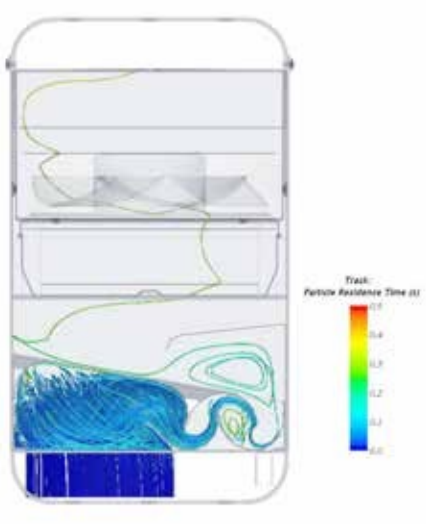
www.sartorius-werkzeuge.de

SCIENTIFICALLY TESTED AND OPTIMISED WITH CFD

When optimising separation, Rentschler REVEN uses CFD technology to analyse flow behaviour in order to achieve optimum separation efficiency when cleaning exhaust air from industrial machines. The flow behaviour is simulated on a computer and the design of the filter unit is continuously adjusted until the best possible separation efficiency for dirt particles is achieved.



CFD image 1: Flow simulation



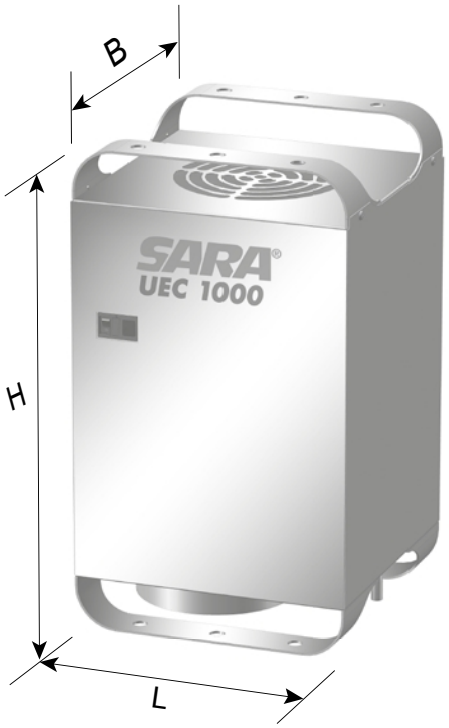
CFD image 2: Particle behaviour

TECHNICAL DATA – SARA® UEC 1000

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

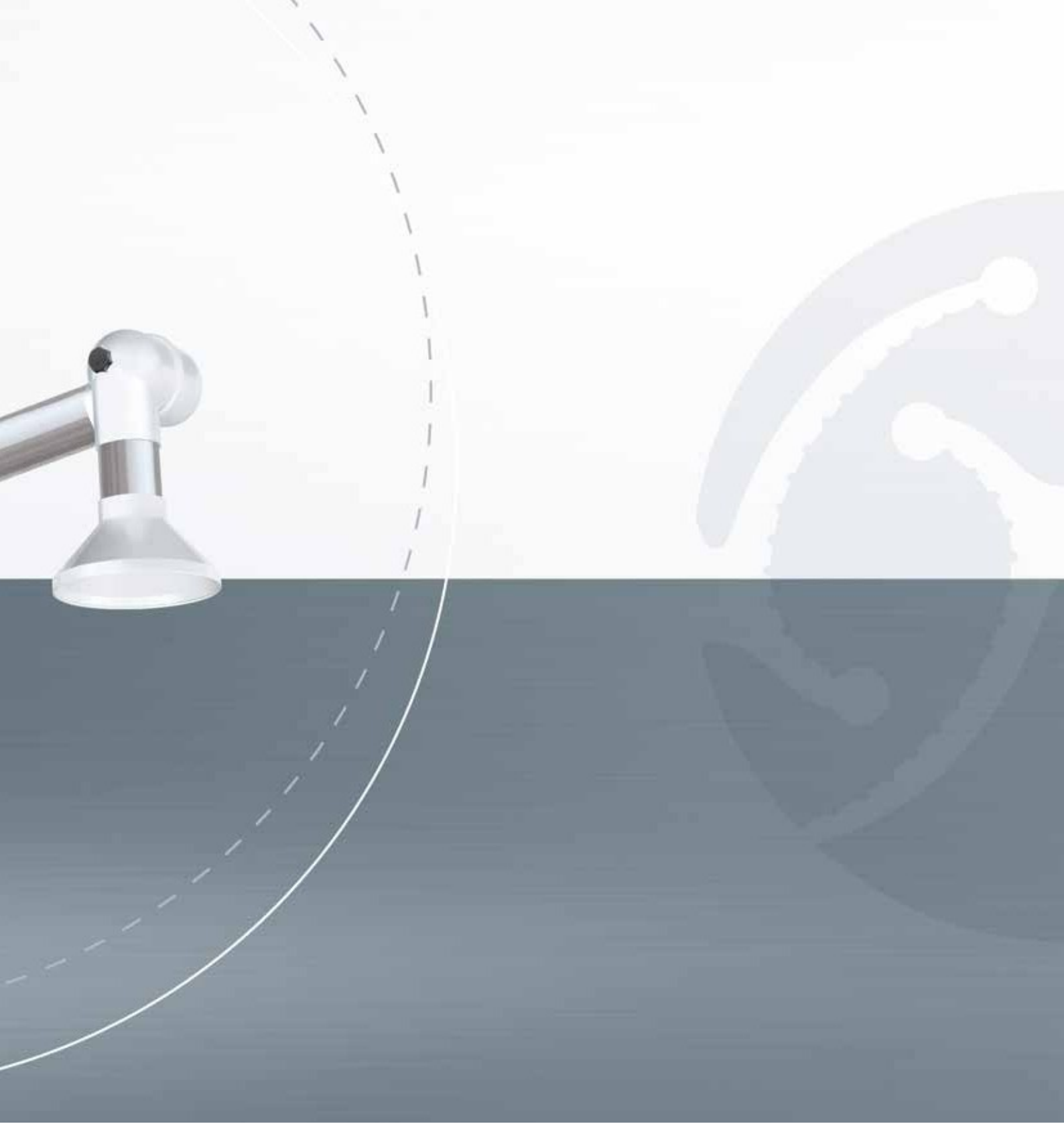
1* Air volume when installed with filter.
2* Air volume blowing freely when not installed without filter.

Electrical data						Sound 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



X-CYCLONE® RJD series

Compact air cleaners for fine dust



REVENO
SCHAKO Group

X-CYCLONE® RJD series

APPLICATION

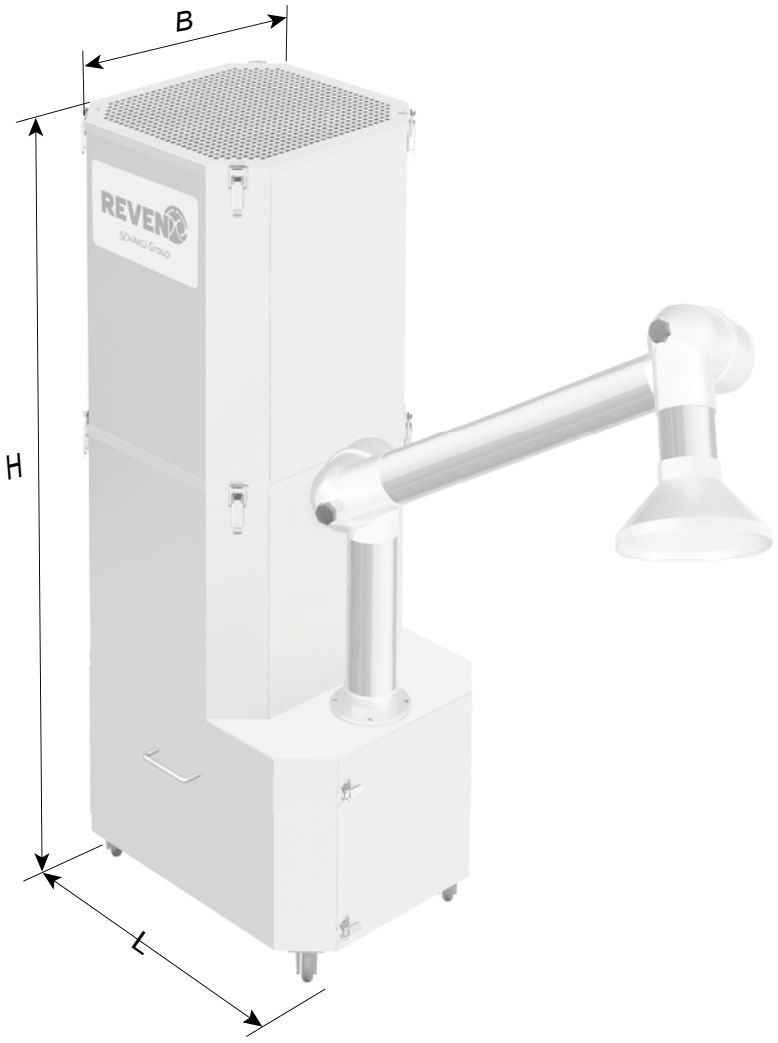
Cleaning of exhaust air from dry fine dust, such as grinding dust, graphite dust and soldering fumes.

TECHNICAL HIGHLIGHTS

- EUREVEN® F2011 high-performance separation system with a separation efficiency of up to 99.9999%. Filter insert with moisture-repellent and cleanable synthetic filter medium.
- Sustainable air purification concept through the use of cleanable separators.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £1,000 per year compared to conventional air cleaners.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the housing.

ACCESSORIES

- X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Suspended particle filter attachment, suitable for heavy smoke and dust generation.
- Activated carbon filter attachment for reducing odour nuisance.



TECHNICAL DATA – X-CYCLONE® RJD SERIES

Device type	Air volume [m³/h]	Electrical data						Dimensions			Weight [kg]	Noise level [dB(A)]
		Voltage [V]		Current [A]		Power 1* [W]		Length [mm]	Width [mm]	Height [mm]		
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz					
RJD-1	500	3~400	3~460	1.61	1.43	650		560	410	1220	70	65

1* Performance data refers to operating power. Other voltages available on request.

REVEN® T series

Powerless air purification tables with REVEN® induction system

REVENO
SCHAKO Group

REVEN® T Series

APPLICATION

Compact cleaning table with integrated air cleaner for cleaning, testing and inspection work. Versatile use, as no power connection is required; cleaning using compressed air.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system integrated into the air cleaner table with a separation efficiency of up to 99.9999%.
- Sustainable air purification concept through the use of cleanable separators.
- Power-free system that only requires a compressed air connection.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

Further information

https://flic.kr/s/aHsknefZ6B

ACCESSORIES

- Activated carbon filter insert at the outlet.
- Exhaust fleece for post-filtering and noise reduction.
- Table extension with integrated washing area and washbasin (TW-1).

TECHNICAL DATA – REVEN® T SERIES

Device type	Dimensions			Weight [kg]
	Length [mm]	Width [mm]	Heigh t [mm]	
T-1	300	300	1300	26
T-2	400	500	1300	40
T-3	500	500	1300	48
T-4	1000	500	1300	82
TW-1	1200	500	1300	96

REVEN® UCOH2 series

Air purifiers for offices and private rooms, hotel rooms and smoking areas

REVENO
SCHAKO Group

REVEN® UCOH2 series

APPLICATION

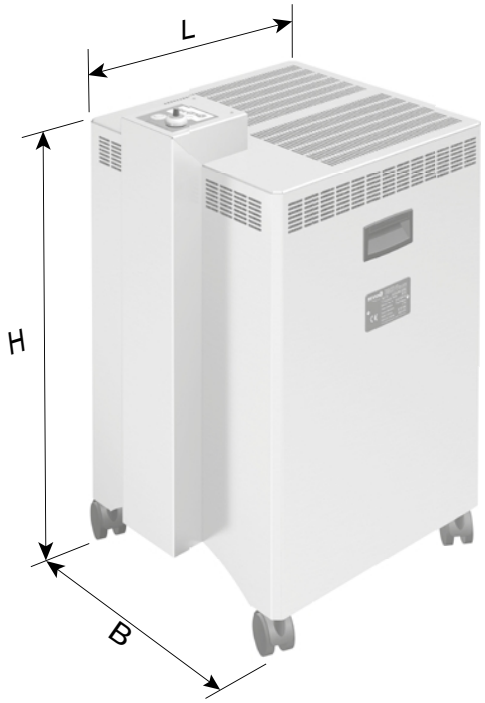
Compact, plug-in air purifier for refreshing and improving indoor air quality by removing fungal spores, fine dust, pollen, allergens and odour particles.

TECHNICAL HIGHLIGHTS

- EUREVEN® F2011 high-performance separation system with a separation efficiency of up to 99.9999%. Easy-to-clean filter insert with moisture-repellent synthetic filter medium.
- Thorough air purification and room freshening with EUREVEN® F2011 gas filters for odour reduction, HEPA® H13 high-performance particle and fine dust filters.
- Sustainable air purification concept through the use of cleanable separators and filters with very long service lives.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive.
- Housing 100% rustproof in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the housing.

ACCESSORIES

- Available with high-quality piano lacquer finish in black, especially for cigar lounges.

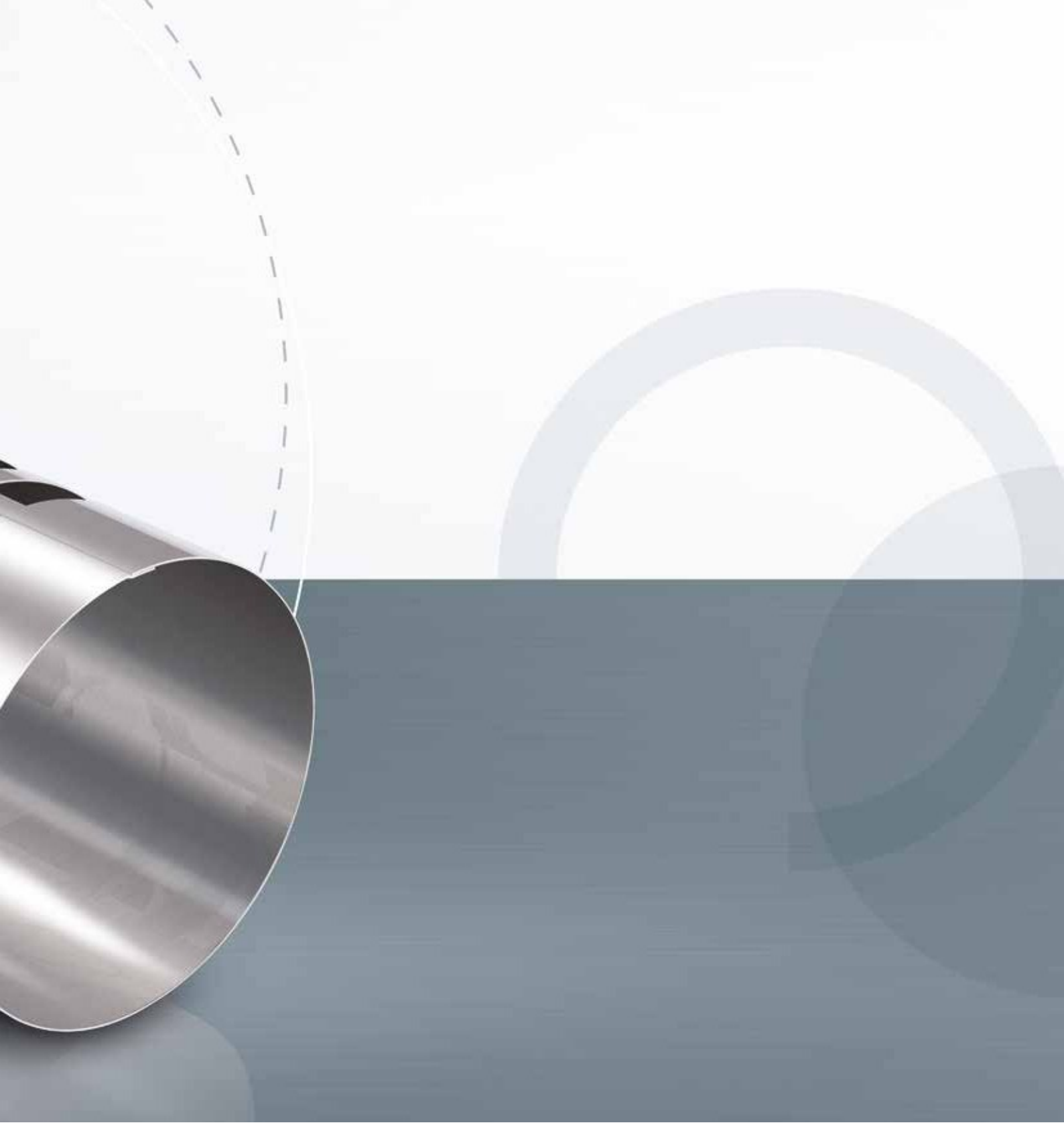


TECHNICAL DATA – REVEN® UCOH2 SERIES

Device type	Air volume [m³/h]	Electrical data						Dimensions			Weight [kg]	Noise level [dB(A)]
		Voltage [V]		Current [A]		Power [W]		Length [mm]	Width [mm]	Height [mm]		
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz					
UCOH2	500	1~230	1~115	1.40	2.50	168		455	400	690	30	≤ 50

REVEN® Pipe Series

Condenser for X-CYCLONE® C-XSC and CE-XSC series



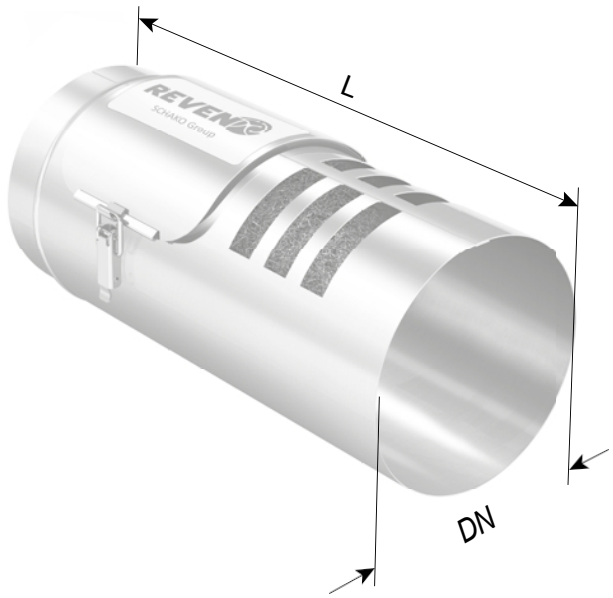
REVENO
SCHAKO Group

APPLICATION

Compact system for condensing water and oil vapours as an accessory for the X-CYCLONE® C-XSC and CE-XSC series.

TECHNICAL HIGHLIGHTS

- Efficient condenser system made of stainless steel.
- Efficient air flow directly to the condenser.
- Sustainable air purification concept through the use of cleanable components.
- Housing, condenser and all operating elements 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the housing.



TECHNICAL DATA – REVEN® PIPE SERIES

Device type	Air volume [m³/h]	Length [mm]	Connection DN [mm]	Weight [kg]
Pipe 1	800	400	150	3
Pipe 2	1700	400	200	5
Pipe 3	4000	400	300	8
Pipe 4	500	400	400	12

Smoke filters

Air purifiers for smoke, dust and gas in the electrical, photovoltaic, laser and metal industries

REVENX
SCHAKO Group

X-CYCLONE® WM series

Mobile compact air cleaners for welding and laser smoke

THE ADVANTAGES OF X-CYCLONE® WELDING FUME EXTRACTION SYSTEMS

- The robust housing design made of corrosion-resistant stainless steel offers significantly higher stability and durability than less expensive versions made of sheet steel or plastic.
- The extraction arm with internal mechanics and collection nozzle meets modern industrial requirements.
- The HEPA filter is equipped with a high-quality fibreglass medium and has a large filter area. It has a significantly longer service life than conventional welding fume filters.
- All filters are equipped with sturdy stainless steel frames and are therefore significantly more robust than lower-priced brands with paper, wood or plastic frames.
- The reliable flame and spark arrestor has been tested in accordance with international standards and offers significantly greater safety than untested baffle plates.
- The medium-pressure fan is enclosed in a flow-optimised housing made of

There are no exposed electrical or motor parts.

- The air flow rates specified in the product descriptions are achieved throughout the entire service life.
- The intelligent monitoring system with electronic flow sensors ensures constant monitoring of the extraction system.

REVEN
SCHAKO Group

X-CYCLONE® WM series

AREA OF APPLICATION

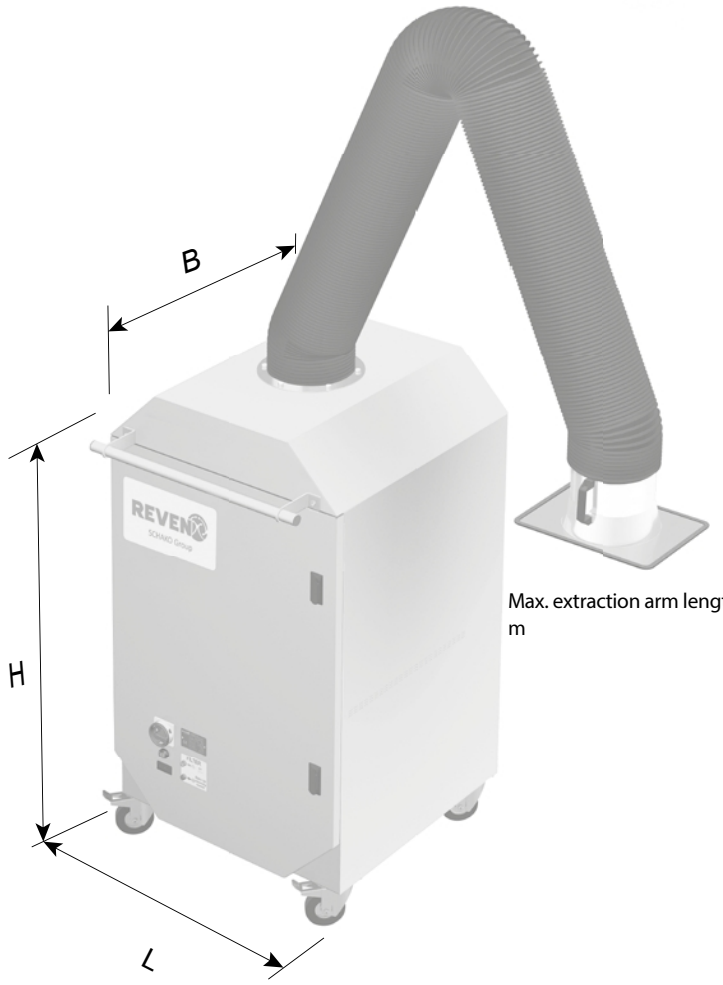
Cleaning the exhaust air from welding systems.
Also suitable for cutting, marking and welding work with laser systems in the metal and electrical industries.

TECHNICAL HIGHLIGHTS

- Air flow rate of 2000 m³/h; the extraction arm with integrated stainless steel mechanism has a diameter of 200 mm and a maximum length of 2 m. Two extraction arms, each with a diameter of 160 mm, are also available as an option.
- Long operating times without filter changes thanks to REVEN® LTH (Long-Term HEPA) particulate filters with a filter area of 30 m².
- Durable REVEN® Long-Term HEPA filters with a service life of up to three years.
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- X-CYCLONE® basic elements with spark and flame arrestor protection, tested in accordance with DIN 18869-5 and DIN EN 16282.
- Sustainable air purification concept thanks to cleanable pre-separators and long filter service life.
- Fan impeller and electric motor in separate, flow-optimised pressure housing; energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £2,000 per year compared to conventional air cleaners.

* Depending on load and single or double shift operation.

- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Housing 100% rustproof in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Intelligent function display.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the housing.



Max. extraction arm length 2 m

TECHNICAL DATA – X-CYCLONE® WM SERIES

Device type	Number of extraction arms	Air volume [m³/h]	Electrical data					
			Voltage [V]		Current [A]		Power 1* [W]	
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
WM-1	1	2000	3~400	3~480	4.40		2000	
WM-2	2	2000	3~400	3~480	4.40		2000	

Device type	Number of extraction arms	Dimensions					Weight [kg]	Sound level [dB(A)]
		Device			Extraction arm			
		Length [mm]	Width [mm]	Height [mm]	Max. length [mm]	Diameter [mm]		
WM-1	1	720	700	1360	2000	200	187	75
World Cup 2	2	720	700	1360	2000	160	197	75

1* Performance data refers to operating power. Other voltages available on request.

X-CYCLONE® MO series

Flexible compact air cleaners "All-in-one" for welding and laser fumes as well as liquid-containing aerosols

THE ADVANTAGES OF THE X-CYCLONE® ALL-IN-ONE AIR PURIFIER

- The air cleaner is suitable for the simultaneous separation of aerosols containing solids and liquids.
- The stainless steel housing is robust and corrosion-resistant.
- The extraction arm with internal mechanics and collection nozzle meets modern industrial requirements.
- The HEPA filter is equipped with a high-quality fibreglass medium and has a large filter area. It has a significantly longer service life than conventional welding fume filters.
- All filters are equipped with sturdy stainless steel frames and are therefore significantly more robust than less expensive brands with paper, wood or plastic frames.
- The reliable flame and spark protection is certified according to international standards and offers significantly more safety than untested baffle plates.
- The medium-pressure fan is enclosed in a flow-optimised housing made of

There are no exposed electrical or motor parts.

- The air flow rates specified in the product descriptions are achieved throughout the entire service life.
- The intelligent monitoring system with electronic flow sensors ensures constant monitoring of the extraction system.

REVENTOS
SCHAKO Group

X-CYCLONE® MO series

APPLICATION

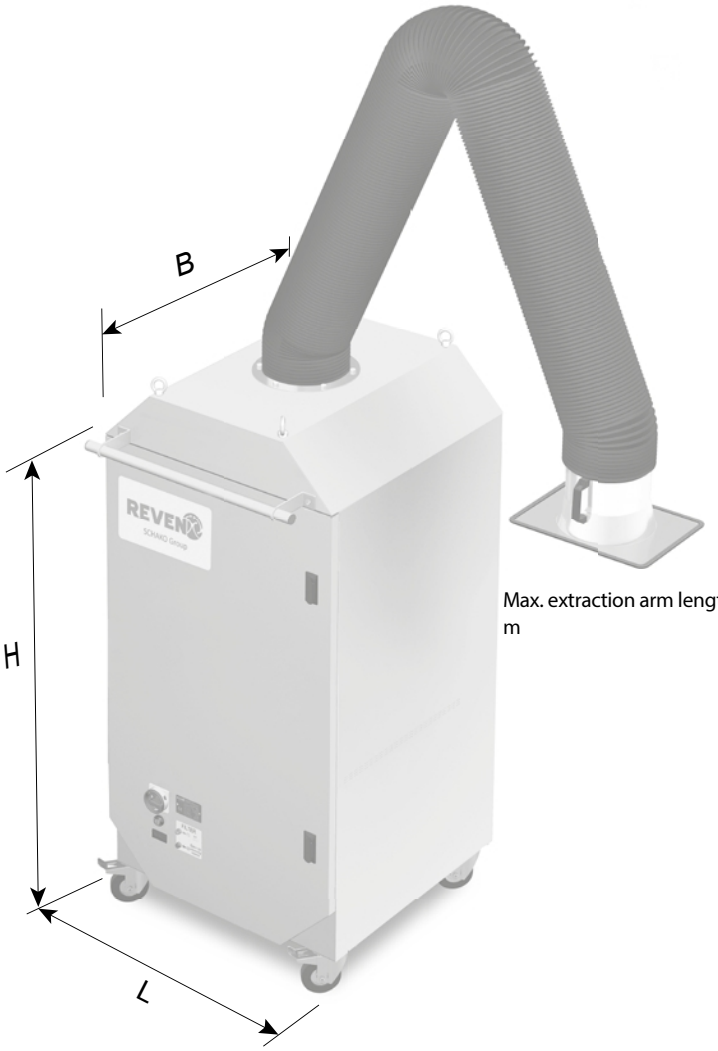
Cleaning the exhaust air from welding systems.
Also suitable for the simultaneous separation of aerosols containing solids and oil, such as spray mists, in applications in the metal and electrical industries.

TECHNICAL HIGHLIGHTS

- Air flow rate of 2000 m³/h; the extraction arm with integrated stainless steel mechanism has a diameter of 200 mm and a maximum length of 2 m. Two extraction arms, each with a diameter of 160 mm, are also available as an option.
- Long operating times without filter changes thanks to REVEN® LTH (Long-Term HEPA) particulate filters with a filter area of 30 m².
- Long-lasting REVEN® Long-Term HEPA filters with a service life of up to three years.*
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- X-CYCLONE® basic elements with spark and flame arrestor protection, tested in accordance with DIN 18869-5 and DIN EN 16282.
- Sustainable air purification concept thanks to cleanable pre-separators and long filter service life.
- Fan impeller and electric motor in separate, flow-optimised pressure housing; energy-efficient eco-design in accordance with the European ErP Directive. Energy savings of up to £2,000 per year compared to conventional air cleaners.

* Depending on load and single or two-shift operation.

- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Housing 100% rustproof in accordance with the requirements of the Edelstahl Rostfrei e.V. trademark association.
- Intelligent function display.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the housing.



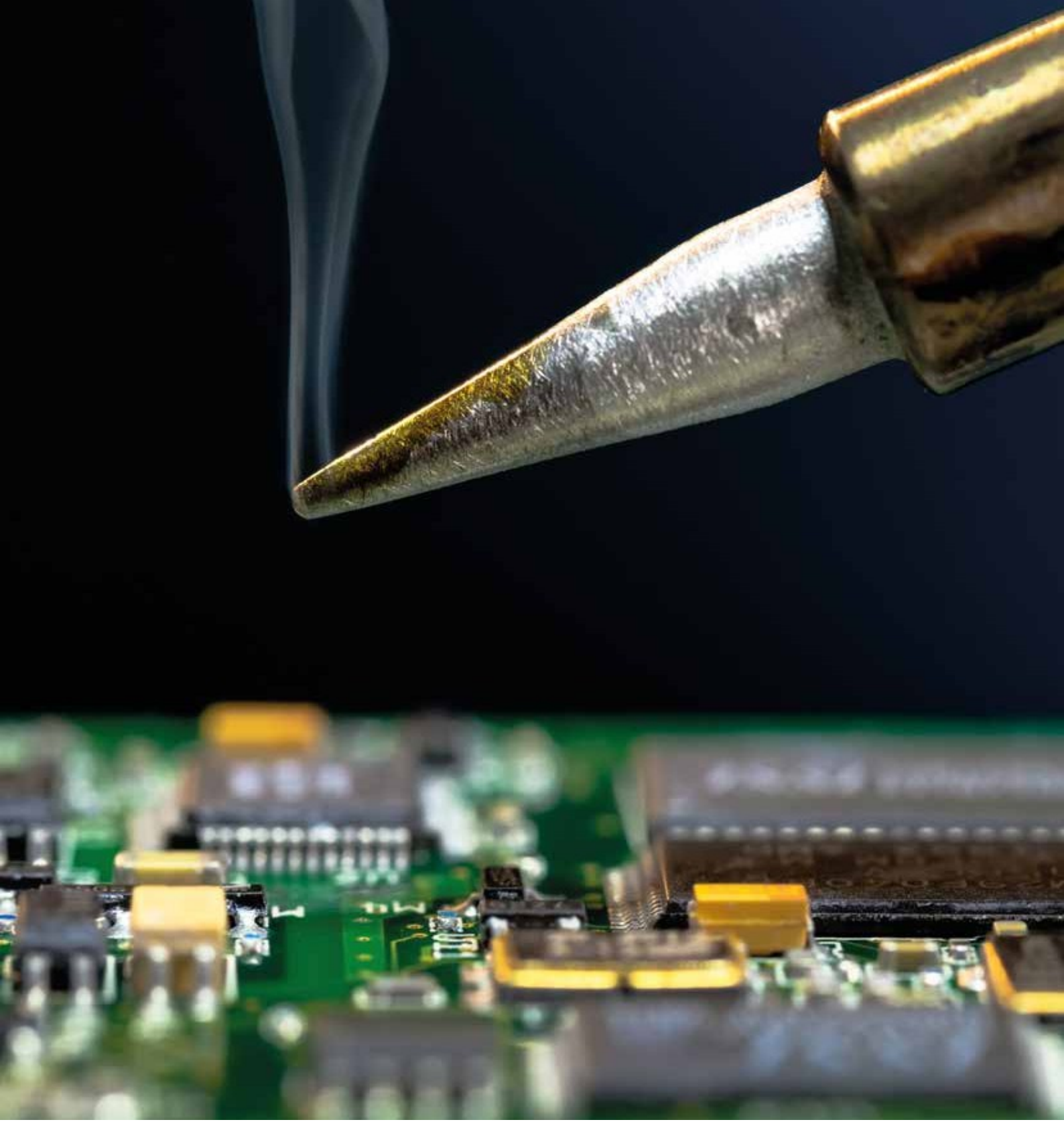
Max. extraction arm length 2 m

TECHNICAL DATA – X-CYCLONE® MO SERIES

Device type	Number of extraction arms	Air volume [m³/h]	Electrical data					
			Voltage [V]		Current [A]		Power 1* [W]	
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
MO-1	1	2000	3~400	3~480	4.40		2000	
MO-2	2	2000	3~400	3~480	4.40		2000	

Device type	Number of extraction arms	Dimensions					Weight [kg]	Sound level [dB(A)]
		Device			Extraction arm			
		Length [mm]	Width [mm]	Height [mm]	Max. length [mm]	Diameter [mm]		
MO-1	1	750	750	1760	2000	200	259	75
MO-2	2	750	750	1760	2000	160	268	75

1* Performance data refers to operating power. Other voltages available on request.



X-CYCLONE® LM series

Mobile compact air purifiers for laser and soldering fumes

THE ADVANTAGES OF X-CYCLONE® LASER SMOKE EXTRACTION

- The robust housing design made of corrosion-resistant stainless steel offers significantly higher stability and durability than less expensive versions made of sheet steel or plastic.
- The HEPA filter is equipped with a high-quality glass fibre medium and has a large filter area. It has a significantly longer service life than conventional welding fume filters.
- All filters are equipped with sturdy stainless steel frames and are therefore significantly more robust than lower-priced models with paper, wood or plastic frames.
- The fan, which is manufactured in Germany, is designed for economical energy consumption. Unprotected electrical or motor parts have been avoided in the design.
- The air flow rates specified in the product descriptions are achieved throughout the entire service life.
- The intelligent monitoring system with electronic flow sensors ensures constant monitoring of the extraction system.

REVEN
SCHAKO Group

X-CYCLONE® LM series

APPLICATION

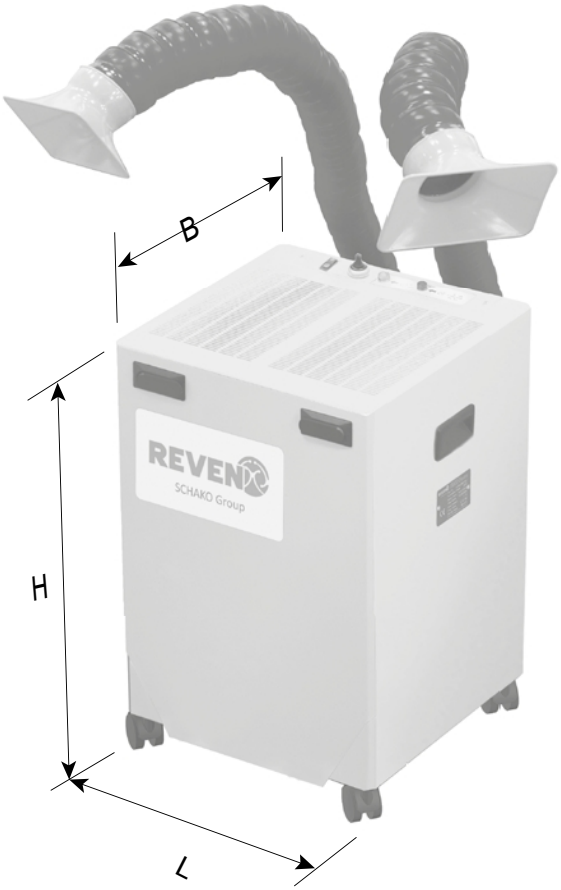
Cleaning exhaust air of smoke, vapours, odours and gas in applications such as 3D printing, laser engraving, laser marking, laser cutting, wafer processing, eroding and soldering.

TECHNICAL HIGHLIGHTS

- EUREVEN® F2011 high-performance separation system with a separation efficiency of up to 99.9999%. Easy-to-clean filter insert with moisture-repellent synthetic filter medium.
- Thorough air purification and room freshening with EUREVEN® F2011 gas filters for odour reduction, HEPA H13 high-performance particle and fine dust filters.
- Sustainable air purification concept through the use of cleanable separators and filters with very long service lives.
- Fan impeller and electric motor in energy-efficient eco-design in accordance with the European ErP Directive.
- Housing 100% rustproof in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the housing.

ACCESSORIES

- Connection nozzles according to customer requirements
- Powder coating in special colours



TECHNICAL DATA – X-CYCLONE® LM SERIES

Device type	Air volume [m³/h]	Electrical data						Dimensions				Weight [kg]	Noise level [dB(A)]
		Voltage [V]		Current [A]		Power [W]		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz						
LM-1	0 - 500	1~230	1~115	1.40	2.50	168		400	400	622	2 x 70	33	≤ 50

* Air volume continuously adjustable from 0 to 500 m³/h

Duct installation systems

Air cleaners for installation in exhaust air ducts

REVENO
SCHAKO Group

X-CYCLONE® RKV1 series

Exhaust air duct cleaner for pre-separation directly at the processing stage

REVENO
SCHAKO Group

X-CYCLONE® RKV1 series

APPLICATION

Cleaning of exhaust air from processing machines, coating systems, production machines in the food industry and preparation equipment in commercial kitchens. Separation of water- and grease-containing aerosols, such as cooling lubricants, spray mists or cooking vapours.

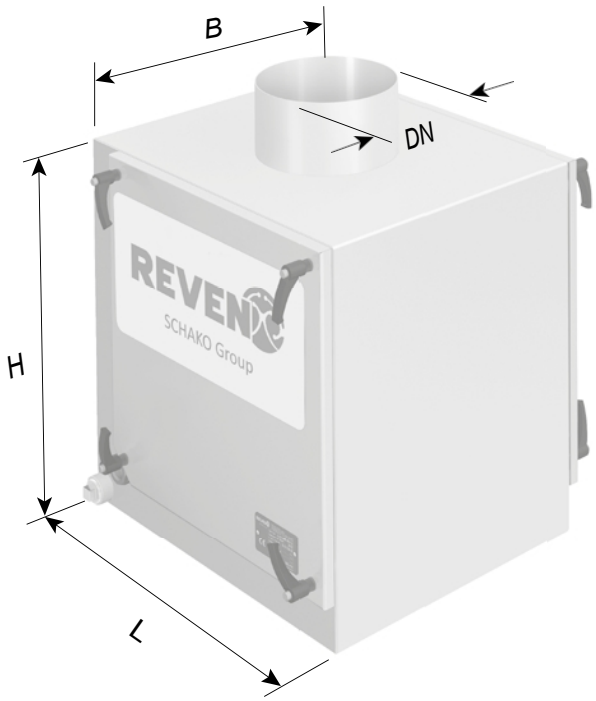
Suitable as a pre-separator directly in the processing process. Installation in a horizontal or vertical exhaust air duct.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct through X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and adapters for the exhaust air ducts.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RKV1 SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
RKV1-1	500	370	380	370	140	400	12
RKV1-2	1200	520	460	520	200	400	27
RKV1-3	2000	600	540	600	250	400	43
RKV1-4	3500	800	660	800	355	400	91
RKV1-5	5000	870	820	870	450	400	134

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

X-CYCLONE® RKV2 series

Exhaust air duct cleaner for pre-separation directly at the processing stage

REVENO
SCHAKO Group

X-CYCLONE® RKV2 series

APPLICATION

Cleaning of exhaust air from processing machines, coating systems, production machines in the food industry and commercial kitchen appliances.
Separation of water-containing aerosols, such as cooling lubricants, spray mists or cooking vapours.

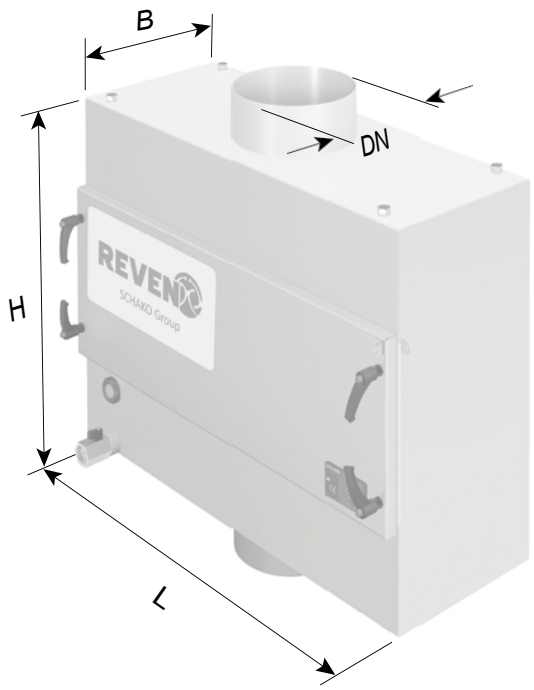
Suitable for installation in a vertically guided exhaust air duct section.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Stainless steel agglomerator system for PM2.5 particles.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and adapters for the exhaust air ducts.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RKV2 SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Connection DN [mm]		
RKV2-1	500	660	200	490	100	800	50
RKV2-2	1000	760	300	590	200	800	70
RKV2-3	2000	960	340	790	300	800	90
RKV2-4	3500	1160	540	830	500	800	150

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

X-CYCLONE® RK2 series

Exhaust air duct cleaner for water-based aerosols

REVENO
SCHAKO Group

X-CYCLONE® RK2 series

APPLICATION

Cleaning exhaust air from processing machines, coating systems, production machines in the food industry and commercial kitchen appliances. Separation of water-containing aerosols, such as cooling lubricants, spray mists or cooking vapours.

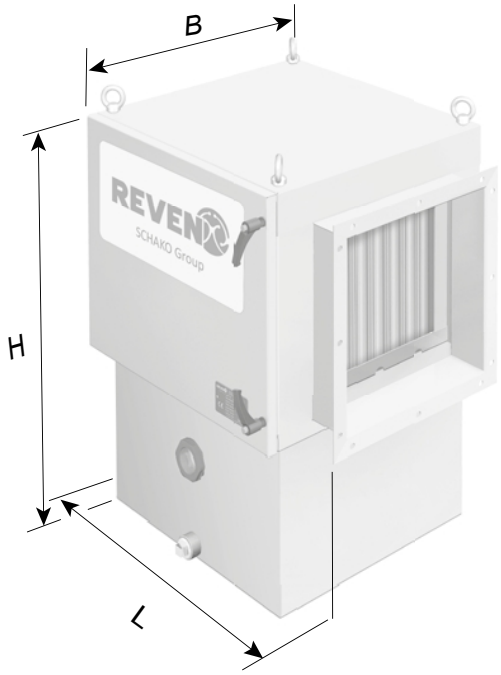
Suitable for installation in a horizontal exhaust air duct section.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Stainless steel agglomerator system for PM2.5 particles.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- Bag filters for aerosols containing plasticisers, paint and oil.
- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and adapters for exhaust air ducts.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RK2 SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RK2-1	1200	660	490	710	320 x 320	1000	50
RK2-2	1600	660	650	710	490 x 320	1000	55
RK2-3	2400	660	650	880	490 x 490	1000	65
RK2-4	3300	660	750	1120	620 x 620	1000	95
RK2-5	6000	660	990	1240	840 x 840	1000	125
RK2-6	1000	660	1240	1510	1160 x 1160	1000	160

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

X-CYCLONE® RK2R series

Exhaust air duct cleaner with REVEX® spray technology

REVENO
SCHAKO Group

X-CYCLONE® RK2R series

APPLICATION

Cleaning of exhaust air from processing machines, cleaning systems, production machines in the food industry and commercial kitchen appliances. Separation of dry, sticky, solid or vapour-like substances.

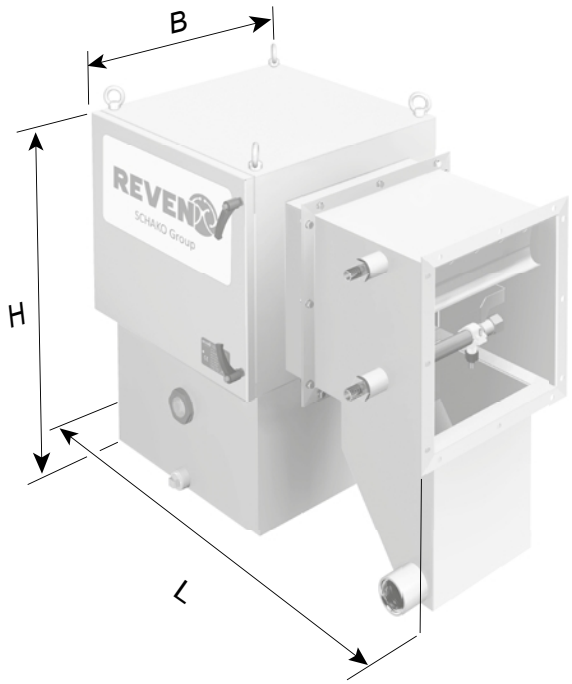
Suitable for installation in a horizontal exhaust air duct.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Patented REVEX® spray technology with cleaning and air scrubbing function.
- Stainless steel agglomerator system for PM2.5 particles.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and adapters for the exhaust air ducts.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RK2R SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RK2R-1	1200	960	380	710	320 x 320	1100	75
RK2R-2	1600	960	550	710	490 x 320	1100	83
RK2R-3	2400	960	550	880	490 x 490	1100	100
RK2R-4	3300	960	680	1120	620 x 620	1100	140
RK2R-5	6000	960	900	1240	840 x 840	1100	180
RK2R-6	10000	960	1220	1510	1160 x 1160	1100	250

* Please note: The pressure losses are based on the assumption that air flows into the X-CYCLONE® duct installation system without obstruction and flows out without disruption. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

X-CYCLONE® RKM series

Exhaust air duct cleaner for water-containing aerosols and high exhaust air volumes

REVENO
SCHAKO Group

X-CYCLONE® RKM series

APPLICATION

Cleaning exhaust air from processing machines, coating systems, production machines in the food industry and commercial kitchen appliances. Separation of water-containing aerosols, such as cooling lubricants, spray mists or cooking vapours.

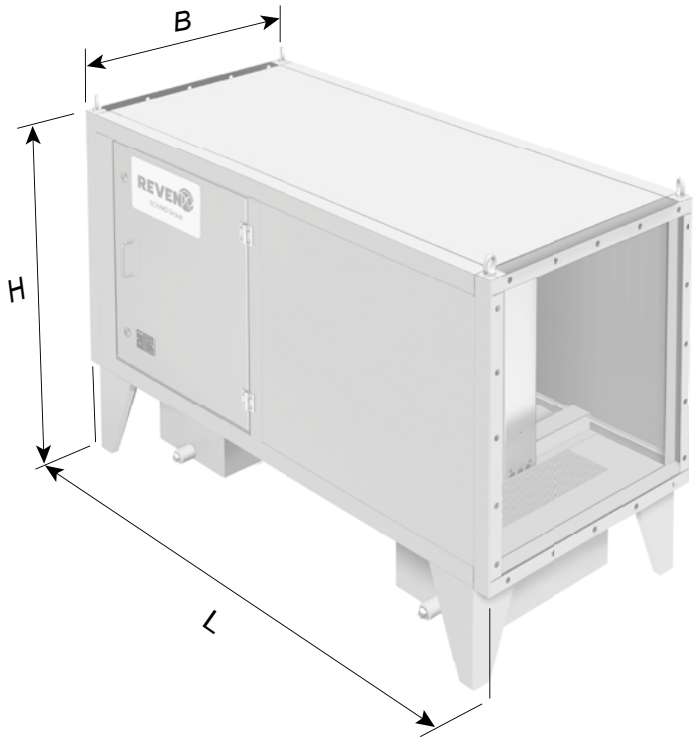
For high exhaust air volumes, suitable for installation in a horizontally routed exhaust air duct section.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Stainless steel agglomerator system for PM2.5 particles.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct through X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- REVEX® spray technology, see X-CYCLONE® RKMR series.
- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RKM SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RKM-01	5000	1600	720	990	645 x 665	800	162
RKM-02	7500	1600	1030	990	955 x 665	800	213
RKM-03	10000	1600	1340	990	1265 x 665	800	264
RKM-04	10000	1600	720	1610	645 x 1285	800	274
RKM-05	15000	1600	1030	1610	955 x 1285	800	356
RKM-06	20000	1600	1340	1610	1265 x 1285	800	428
RKM-07	30000	1600	1340	2230	1265 x 1905	800	582
RKM-08	30000	1600	1960	1610	1885 x 1285	800	602
RKM-09	45000	1600	1960	2230	1885 x 1905	800	808
RKM-10	60000	1600	2580	2230	2505 x 1905	800	1064
RKM-11	60000	1600	1960	2850	1885 x 2525	800	1064
RKM-12	80000	1600	2580	2850	2505 x 2525	800	1332

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

X-CYCLONE® RKMR series

Exhaust air duct cleaner with REVEX® spray technology for high exhaust air volumes

REVENO
SCHAKO Group

X-CYCLONE® RKMR series

APPLICATION

Cleaning of exhaust air from processing machines, cleaning systems, production machines in the food industry and commercial kitchen appliances. Separation of dry, sticky, solid or vapour-like substances.

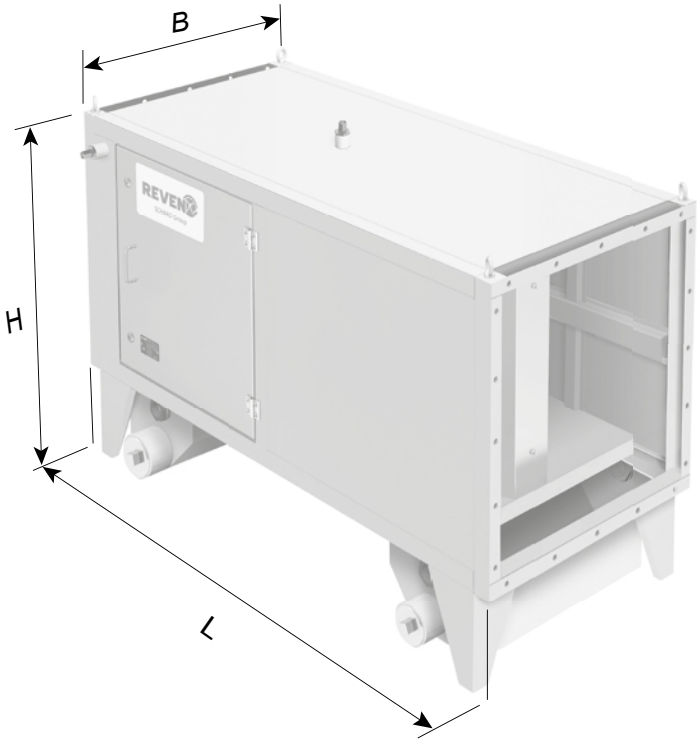
Suitable for installation in a horizontal exhaust air duct.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Patented REVEX® spray technology with cleaning and air washing function.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RKMR SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RKMR-01	5000	160	720	990	645 x 665	600	162
RKMR-02	7500	1600	1030	990	955 x 665	600	213
RKMR-03	10000	1600	1340	990	1265 x 665	600	264
RKMR-04	10000	1600	720	1610	645 x 1285	600	274
RKMR-05	15000	1600	1030	1610	955 x 1285	600	356
RKMR-06	20000	1600	1340	1610	1265 x 1285	600	428
RKMR-07	30000	1600	1340	2230	1265 x 1905	600	582
RKMR-08	30000	1600	1960	1610	1885 x 1285	600	602
RKMR-09	45000	1600	1960	2230	1885 x 1905	600	808
RKMR-10	60000	1600	2580	2230	2505 x 1905	600	1064
RKMR-11	60,000	1600	1960	2850	1885 x 2525	600	1064
RKMR-12	80000	1600	2580	2850	2505 x 2525	600	1332

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

X-CYCLONE® RKE series

Exhaust air duct cleaner for oil-containing aerosols

REVENO
SCHAKO Group

X-CYCLONE® RKE series

APPLICATION

Cleaning of exhaust air from processing machines, coating systems, production machines in the food industry and commercial kitchen appliances. Separation of oil-containing aerosols, such as cooling lubricants, spray and oil mists.

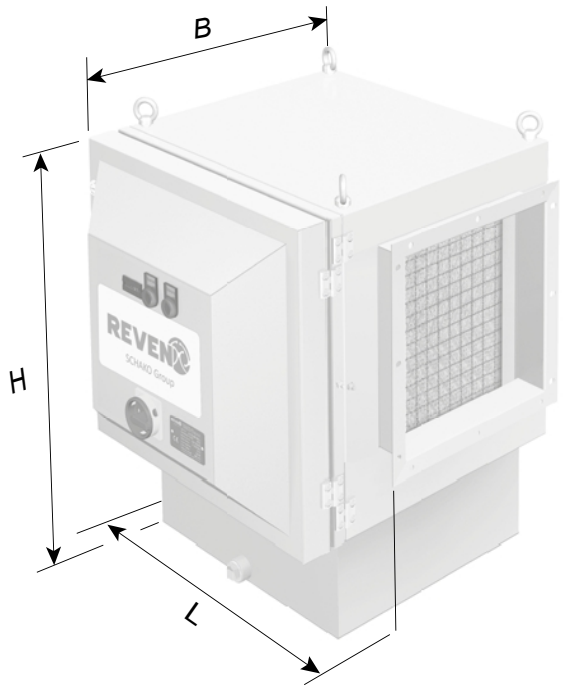
Suitable for installation in a horizontal exhaust air duct.

TECHNICAL HIGHLIGHTS

- Combination system consisting of a patented X-CYCLONE® high-performance separation system and electrostatic filter with a separation efficiency of up to 99.9999%.
- Odour reduction in the exhaust air through high-voltage plasma.
- Stainless steel agglomerator system for oil-containing PM2.5 particles.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct through X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-Verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

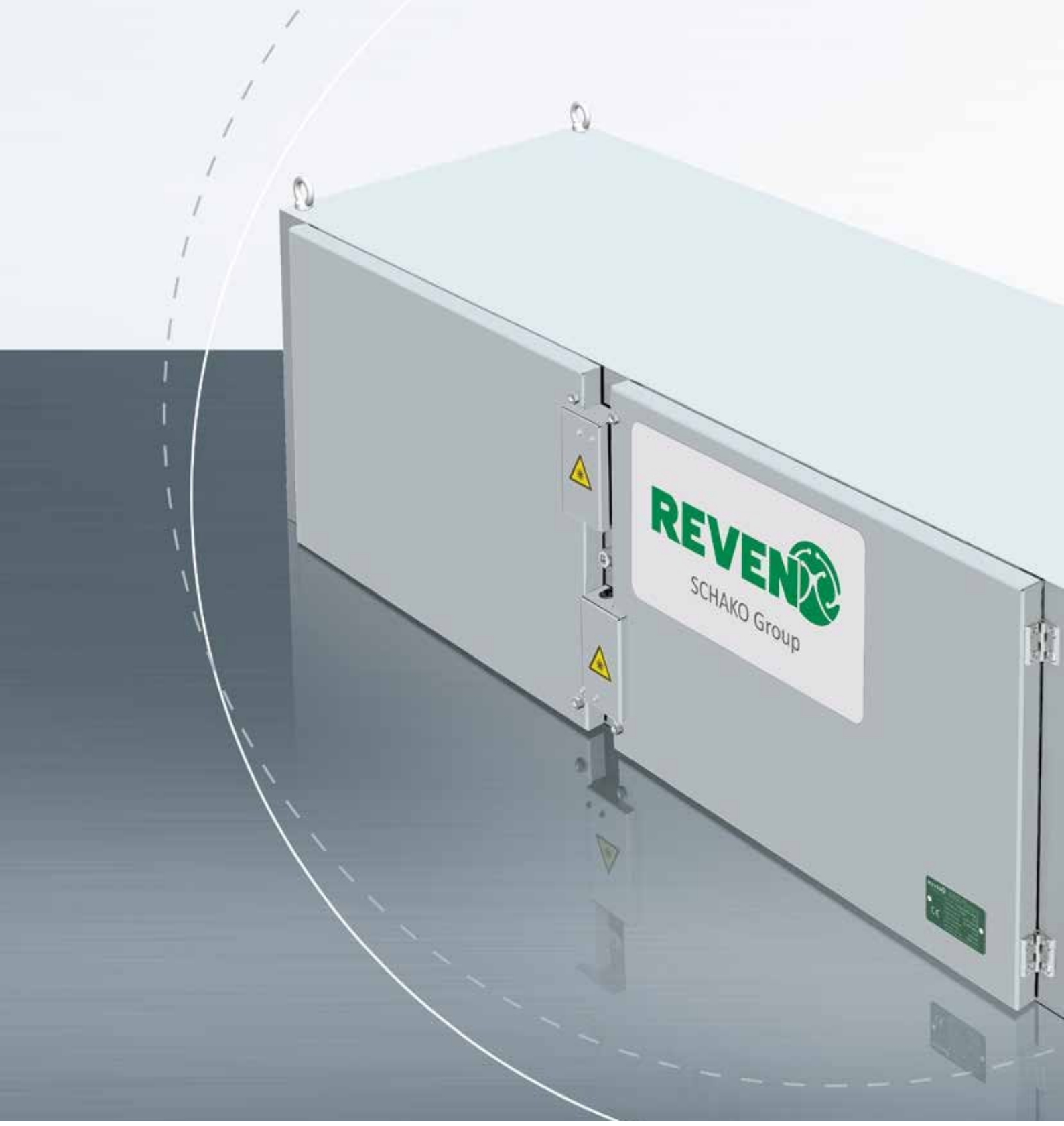
- Agglomerator system made of fibreglass fabric for oil-containing PM1.0 particles.
- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and transition pieces for the exhaust air ducts.
- Siphons, drain pipes, connection sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RKE SERIES

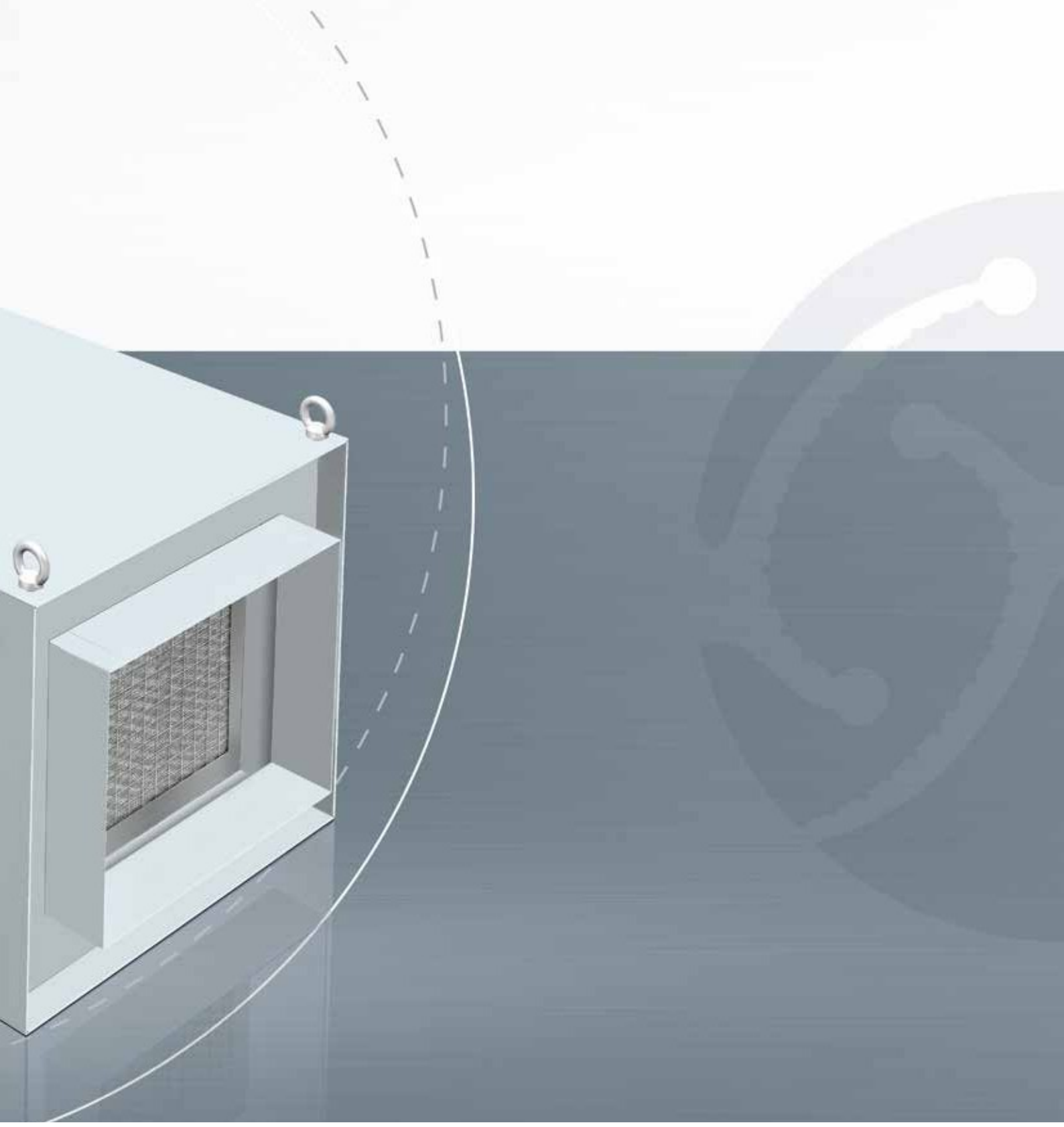
Device type	Air volume [m³/h]	Electrical data			Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Voltage [V] 50/60 Hz	Current [A] 50/60 Hz	Power [W] 50/60 Hz	Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RKE-1	120	1~230	0.70	160	660	630	710	320 x 320	800	75
RKE-2	1600	1~230	0.70	160	660	790	710	490 x 320	800	80
RKE-3	2400	1~230	0.70	160	660	790	880	490 x 490	800	95
RKE-4	3300	1~230	1.40	320	660	890	1120	620 x 620	800	135
RKE-5	6000	1~230	1.40	320	660	1130	1240	840 x 840	800	170
RKE-6	10000	1~230	1.40	320	660	1380	1510	1160 x 1160	800	210

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.



X-CYCLONE® RKUV series

Exhaust air duct cleaner for reducing organic and synthetic odour pollution



REVENO
SCHAKO Group

X-CYCLONE® RKUV series

APPLICATION

Cleaning exhaust air from commercial kitchens, food manufacturers and production facilities and combating synthetic and organic odours through UV oxidation.

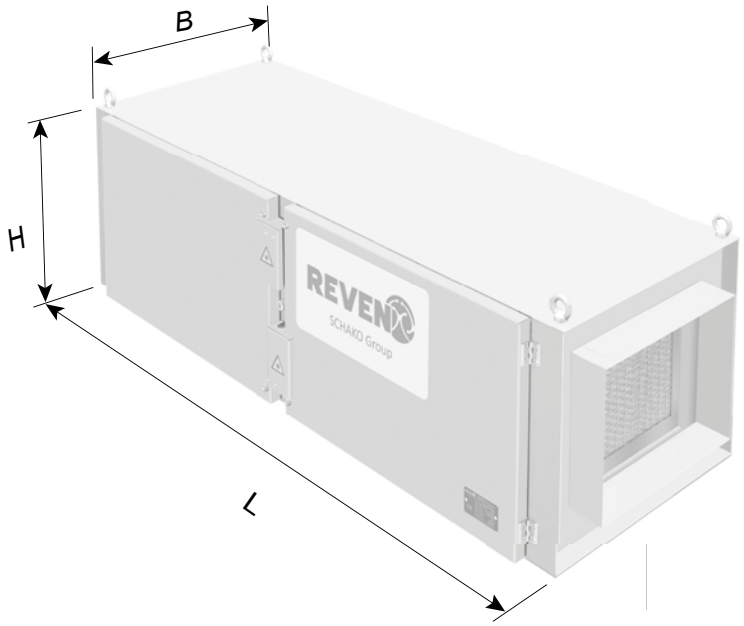
Suitable for installation in a horizontal exhaust air duct section.

TECHNICAL HIGHLIGHTS

- Combination system consisting of patented X-CYCLONE® high-performance separation system and REVEN® long-life UV tubes with a separation efficiency of up to 99.9999%.
- Exhaust air treatment using UV-C and VUV radiation. UV-C radiation with a wavelength of 254 nm for the destruction of microorganisms (bacteria, fungi and viruses). Vacuum ultraviolet radiation (VUV) with a wavelength of 185 nm for ozone generation for the oxidation of odorous substances in the air.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct through X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the housing.

ACCESSORIES

- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and adapters for the exhaust air ducts.



TECHNICAL DATA – X-CYCLONE® RKUV SERIES

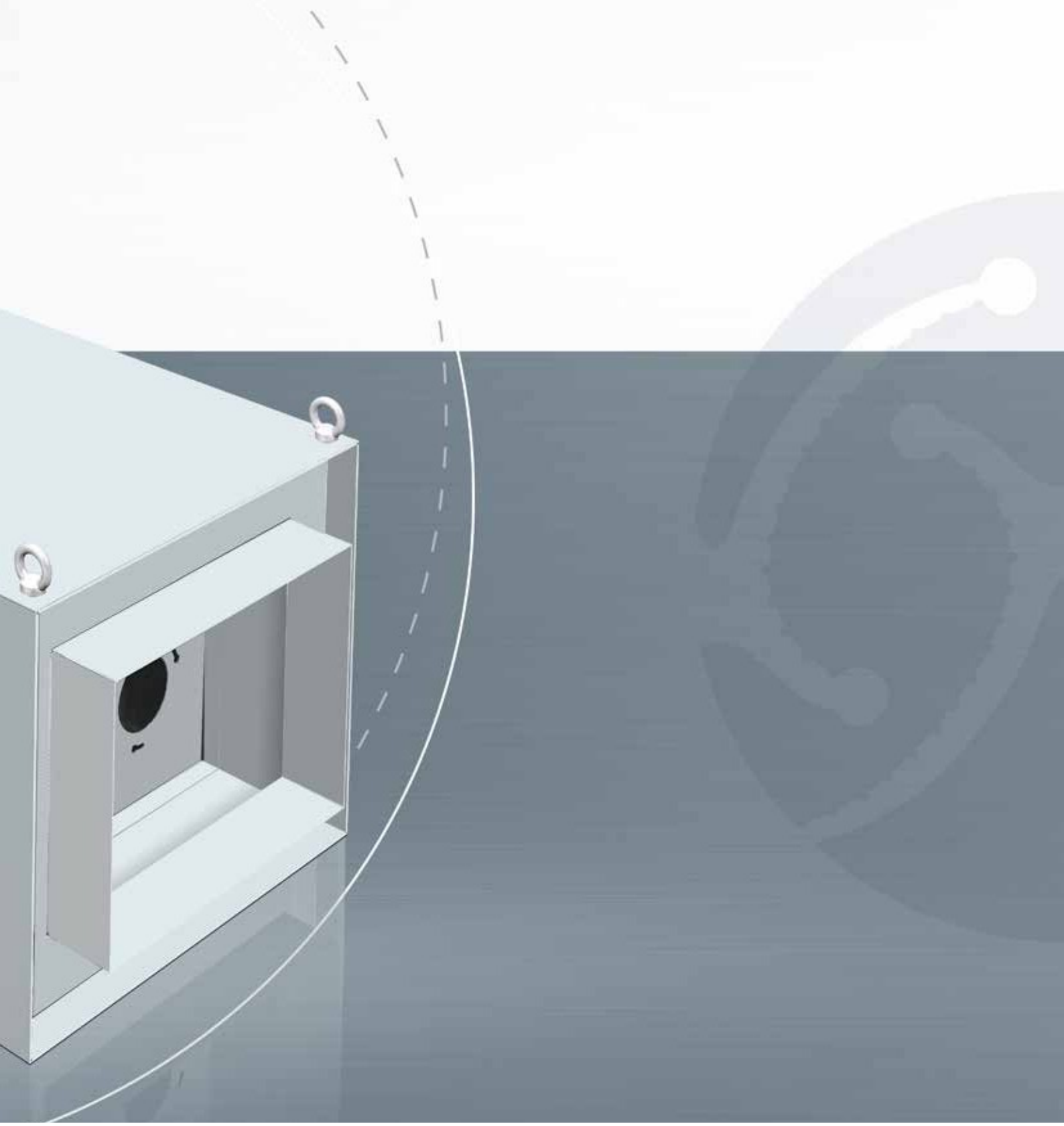
Device type	Air volume [m³/h]	Electrical data			Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Voltage [V] 50/60 Hz	Current [A] 50/60 Hz	Power [W] 50/60 Hz	Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RKUV-1	800	1~230	1.80	345	1500	460	460	300 x 300	600	65
RKUV-2	1600	1~230	2.50	500	1500	700	540	400 x 300	600	100
RKUV-3	2400	1~230	3.20	655	1500	700	650	550 x 450	600	150
RKUV-4	3200	1~230	6.0	1275	1500	700	700	550 x 550	600	160
RKUV-5	4800	1~230	8.80	1895	1500	1190	810	1040 x 660	600	260

* Please note: The pressure losses are based on the assumption that air flows into the X-CYCLONE® duct installation system without obstruction and flows out without disruption. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

Note:
When determining the installation location, please note that at least two seconds must elapse between the air entering the RKUV duct installation system and the exhaust air being discharged into the open air.

X-CYCLONE® RKGN series

Exhaust air duct cleaner for reducing organic odour pollution



REVENO
SCHAKO Group

X-CYCLONE® RKGN series

APPLICATION

Cleaning of greasy exhaust air from food processing plants, commercial kitchens and large bakeries, and combating organic odours through oxidation.

Suitable for installation in a horizontal exhaust air duct section.

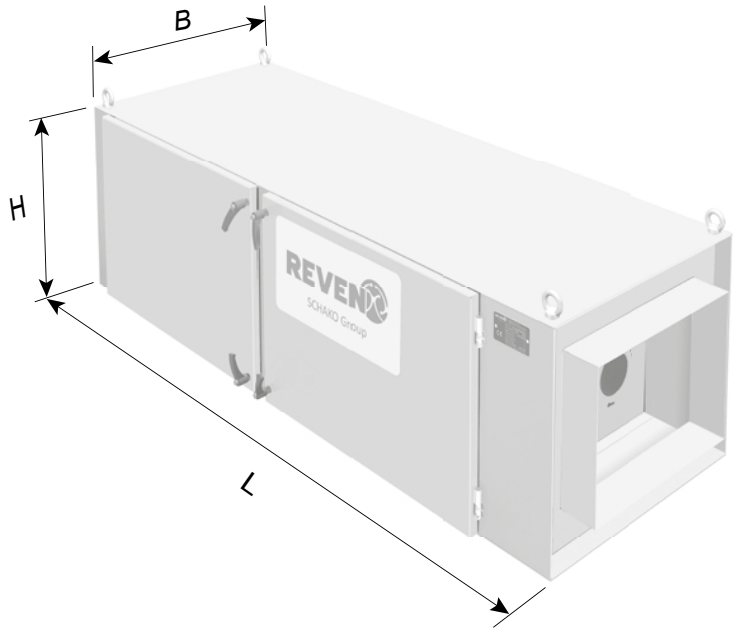
TECHNICAL HIGHLIGHTS

- Combination system consisting of the patented X-CYCLONE® high-performance separation system and RGN99 odour filter with a separation efficiency of up to 99.9999%.
- RGN99 high-performance granulate as a food-safe alternative to activated carbon. Odour reduction through oxidation of odour molecules in the exhaust air.
- Oxidation process using potassium permanganate and zeolite volcanic rock. Odours are broken down by reaction with potassium permanganate, and remaining odour particles are captured by the molecular sieve of the zeolite volcanic rock carrier material.
- Sustainable air purification concept through the use of cleanable separators.
- Effectiveness and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust air duct through X-CYCLONE® basic elements with flame spread test in accordance with DIN 18869-5 and DIN EN 16282.
- Housing 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Effective protection against contamination of the exhaust air duct.
- Designed, engineered and manufactured in Germany.

- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the housing.

ACCESSORIES

- Differential pressure gauge for monitoring the exhaust air duct cleaner.
- Connectors and adapters for the exhaust air ducts.



TECHNICAL DATA – X-CYCLONE® RKGN SERIES

Device type	Air volume [m³/h]	Dimensions				Total pressure loss* [Pa]	Weight [kg]
		Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
RKGN-1	800	150	460	460	300 x 300	800 – 1200	95
RKGN-2	1200	1500	540	460	400 x 300	800 – 1200	115
RKGN-3	1600	1500	700	460	550 x 300	800 – 1200	135
RKGN-4	2400	150	700	650	550 x 450	800 – 1200	175
RKGN-5	3200	150	700	700	550 x 550	800 – 1200	200
RKGN-6	4800	1500	1190	810	1040 x 660	800 – 1200	325
RKGN-7	7200	1500	1190	1120	1040 x 970	800 – 1200	370

* Please note: The pressure losses are based on the assumption of unimpeded air inflow into the X-CYCLONE® duct installation system and unimpeded air outflow. The duct inlet or outlet must be at least three times, preferably five times, as long as the diameter of the duct connection of the X-CYCLONE® duct installation system.

Detection systems

Air cleaners for installation above production facilities

REVENO
SCHAKO Group

X-CYCLONE® EVN-W series

Capture hood with REVEN® induction system, wall-mounted version

Also available with REVEN® efficiency induction system!*

REVEN
SCHAKO Group

X-CYCLONE® EVN-W series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Combination system consisting of the patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- New, globally patented induction nozzle for more efficient collection and cleaning of exhaust air.
- Effectiveness and function of the REVEN® induction nozzle, capture hood and separator proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame penetration testing in accordance with DI 18869-5 and DIN EN 16282.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the hood body.

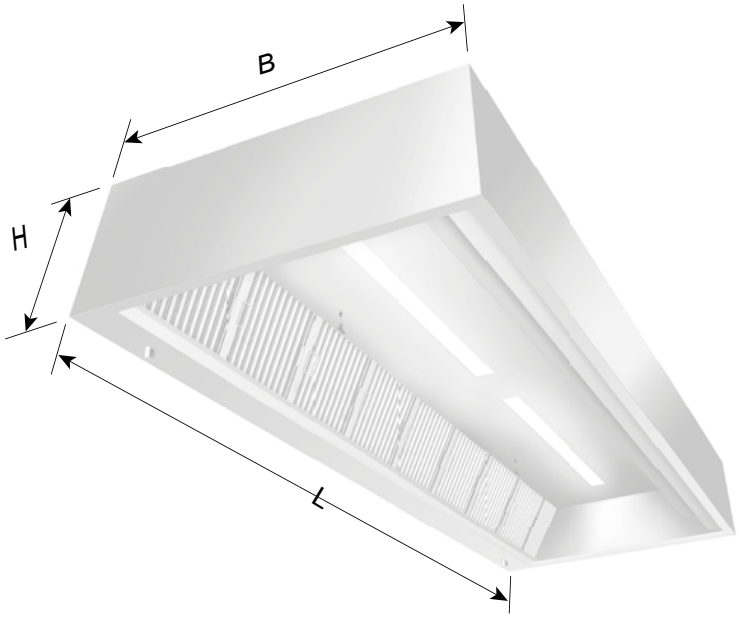
Further information

www.reven.dee (Technologies → for collection) www.reven.dee (Technologies → for regulation and control)

* Optionally available with advanced REVEN® efficiency induction system – for improved extraction of exhaust air without direct injection of supply air.

ACCESSORIES

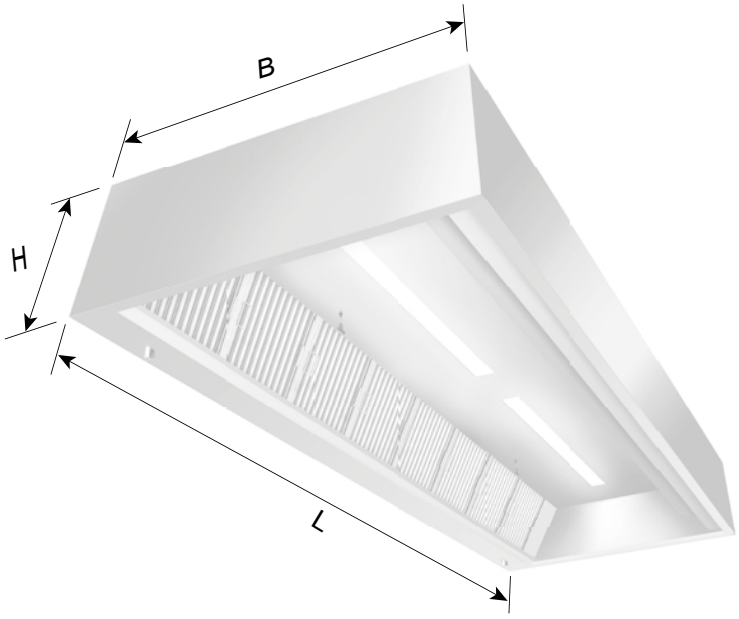
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EVN-W SERIES

Width [mm]	1000	110	120	1300	1400	1500	1600	1700	1800
Height [mm]	450	450	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
1000	1000	1 x 20	1 x 750 x 150	1 x 750 x 150
1200	1000	1 x 20	1 x 750 x 150	1 x 750 x 150
1400	1500	1 x 20	1 x 750 x 150	1 x 750 x 150
1600	1500	1 x 40	1 x 750 x 150	1 x 750 x 150
1800	1500	1 x 40	1 x 750 x 150	1 x 750 x 150
2000	2000	1 x 50	1 x 750 x 150	1 x 750 x 150
2200	2000	1 x 50	1 x 750 x 150	1 x 750 x 150
2400	2500	1 x 50	1 x 750 x 150	1 x 750 x 150
2600	2500	1 x 50	2 x 750 x 150	2 x 750 x 150
2800	3000	1 x 50	2 x 750 x 150	2 x 750 x 150
3000	3000	2 x 40	2 x 750 x 150	2 x 750 x 150



TECHNICAL DATA – X-CYCLONE® EVN-W SERIES

Width [mm]	1000	1100	120	1300	1400	1500	1600	1700	1800
Height [mm]	450	450	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
3200	3500	2 x 40	2 x 750 x 150	2 x 750 x 150
3400	3500	2 x 40	2 x 750 x 150	2 x 750 x 150
3600	3500	2 x 40	2 x 750 x 150	2 x 750 x 150
3800	4000	2 x 40	2 x 750 x 150	2 x 750 x 150
4000	4000	2 x 50	2 x 750 x 150	2 x 750 x 150

With the REVEN Configurator, you can also customise the hood online as desired and download the BIM data:
https://bim.reven.de/#/configurator?SelectedElementID=0

TECHNICAL DATA – X-CYCLONE® EVN-W SERIES

Length [mm]	Weight [kg]								
	Width [mm]								
	1000	1100	1200	1300	1400	1500	1600	1700	1800
1000	87	95	99	108	118	129	133	138	143
1200	98	106	110	119	130	142	146	151	157
1400	109	117	122	133	142	154	158	164	170
1600	120	130	134	145	157	170	174	178	184
1800	132	142	145	158	170	183	187	191	197
2000	146	157	162	174	183	203	207	211	217
2200	157	169	173	186	197	217	221	225	231
2400	168	179	183	200	214	231	235	239	245
2600	180	192	196	212	227	244	248	252	257
2800	191	203	209	225	242	258	262	266	271
3000	202	214	222	237	254	272	276	281	287
3200	214	226	233	250	267	286	290	294	300
3400	225	239	245	254	281	300	304	308	314
3600	237	250	259	262	294	314	318	322	328
3800	250	264	274	284	310	329	333	337	343
4000	260	276	288	300	324	346	350	357	363

X-CYCLONE® EVN-M series

Capture hood with REVEN® induction system, centre version

Also available with REVEN® efficiency induction system!*

REVEN
SCHAKO Group

X-CYCLONE® EVN-M series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Combination system consisting of the patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- New, globally patented induction nozzle for more efficient collection and cleaning of exhaust air.
- The effectiveness and function of the REVEN® induction nozzle, collection hood and separator have been proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the hood body.

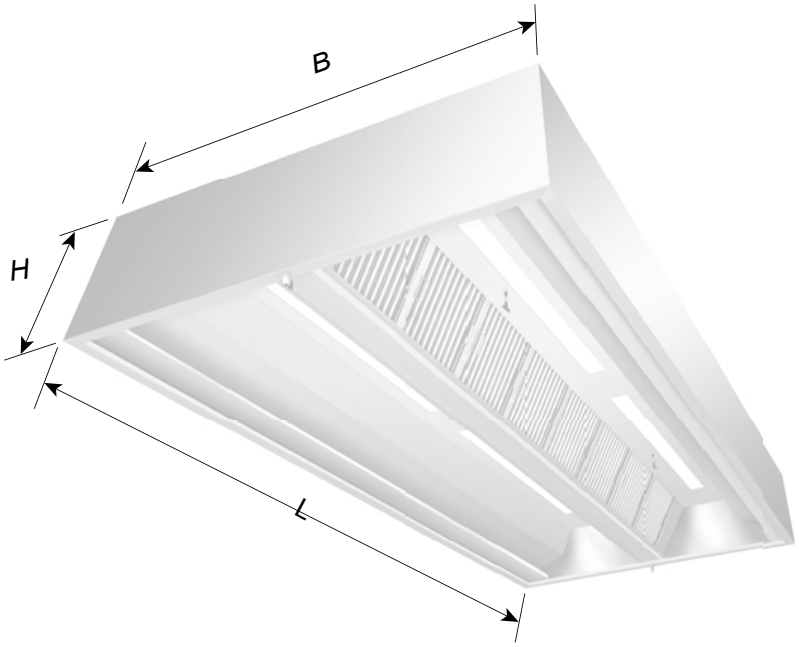
Further information

www.reven.de (Technologies → for collection) www.reven.de (Technologies → for regulation and control)

* Optionally available with advanced REVEN® efficiency induction system – for improved capture of exhaust air without direct injection of supply air.

ACCESSORIES

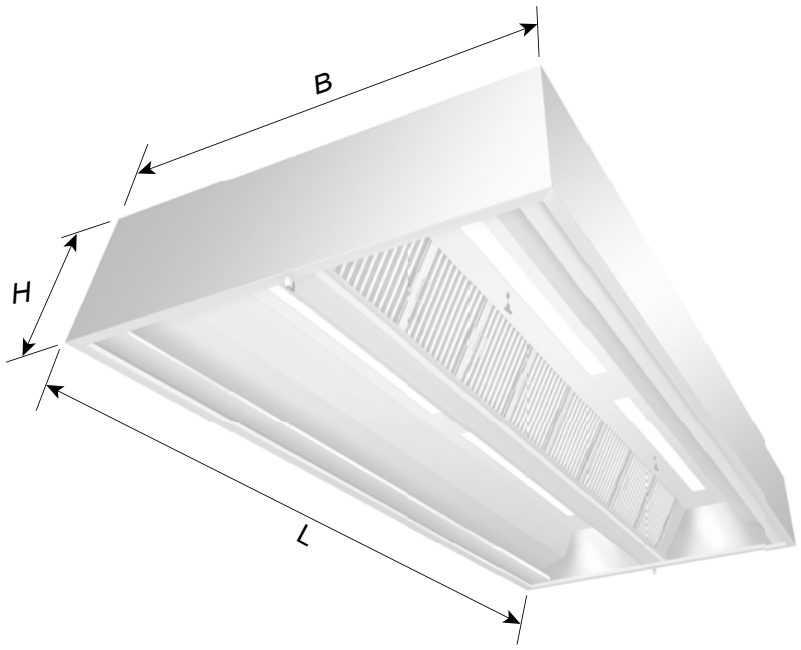
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EVN-M SERIES

Width [mm]	2000	2200	2400	2600	2800	3000	3200
Height [mm]	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
1000	2000	2 x 20	2 x 750 x 150	1 x 750 x 500
1200	2000	2 x 20	2 x 750 x 150	1 x 750 x 500
1400	3000	2 x 20	2 x 750 x 150	1 x 750 x 500
1600	3000	2 x 40	2 x 750 x 150	1 x 750 x 500
1800	3000	2 x 40	2 x 750 x 150	1 x 750 x 500
2000	4000	2 x 50	2 x 750 x 150	1 x 750 x 500
2200	4000	2 x 50	2 x 750 x 150	1 x 750 x 500
2400	5000	2 x 50	2 x 750 x 150	1 x 750 x 500
2600	5000	2 x 50	4 x 750 x 150	2 x 750 x 500
2800	6000	2 x 50	4 x 750 x 150	2 x 750 x 500
3000	6000	4 x 40	4 x 750 x 150	2 x 750 x 500



TECHNICAL DATA – X-CYCLONE® EVN-M SERIES

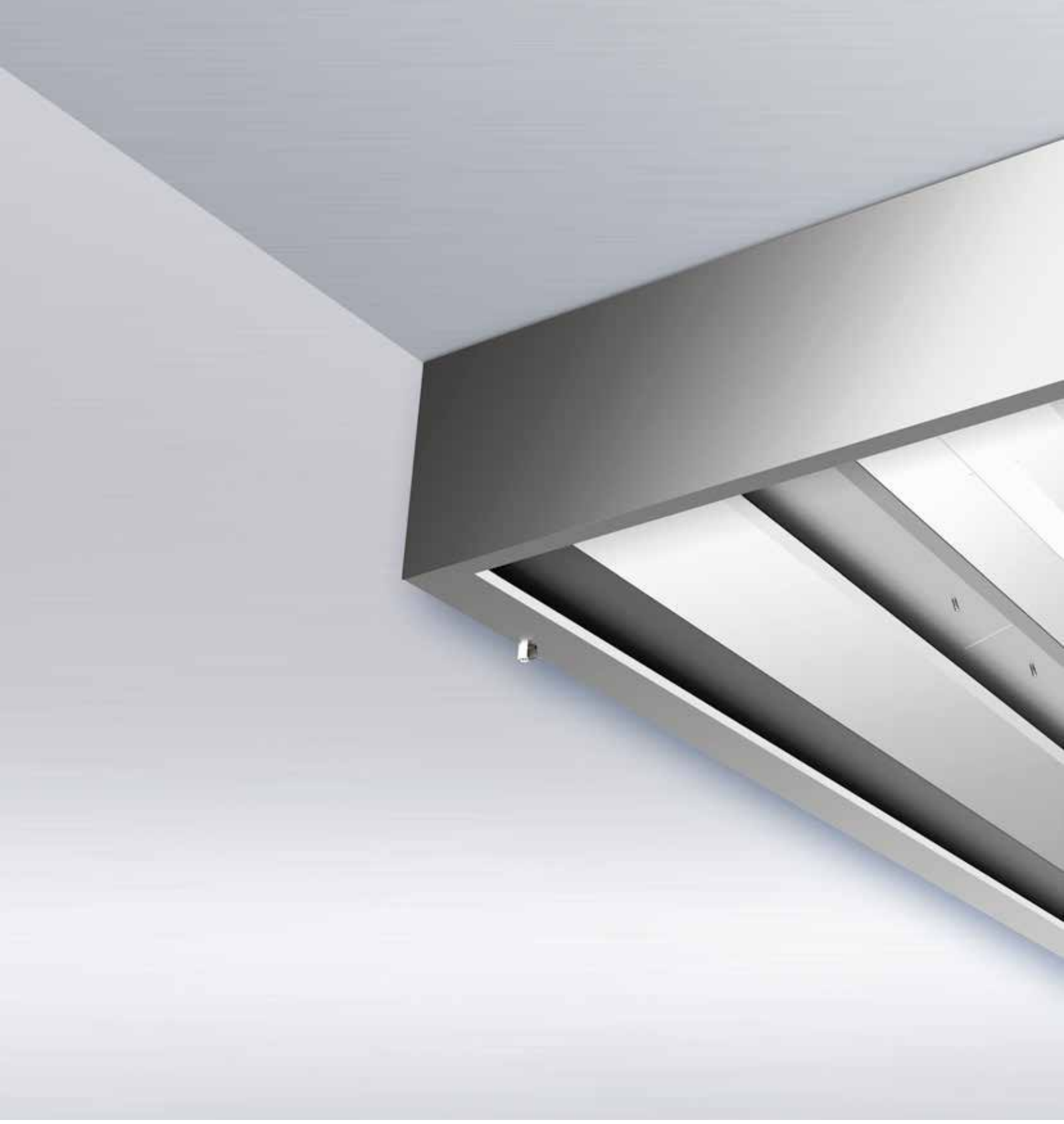
Width [mm]	2000	2200	2400	2600	2800	3000	3200
Height [mm]	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
3200	7000	4 x 40	4 x 750 x 150	2 x 750 x 500
3400	7000	4 x 40	4 x 750 x 150	2 x 750 x 500
3600	7000	4 x 40	4 x 750 x 150	2 x 750 x 500
3800	8000	4 x 40	4 x 750 x 150	2 x 750 x 500
4000	8000	4 x 50	4 x 750 x 150	2 x 750 x 500

With the REVEN Configurator, you can also customise the hood online as desired and download the BIM data:
https://bim.reven.de/#/configurator?SelectedElementID=1

TECHNICAL DATA – X-CYCLONE® EVN-M SERIES

Length [mm]	Weight [kg]						
	Width [mm]						
	2000	2200	2400	2600	2800	3000	3200
1000	174	190	198	216	236	258	266
1200	196	212	220	238	260	284	292
1400	218	234	244	266	284	308	316
1600	240	260	268	290	314	340	348
1800	264	284	290	316	340	366	374
2000	292	314	324	348	366	406	414
2200	314	338	346	372	394	434	442
2400	336	358	366	400	428	462	470
2600	360	384	392	424	454	488	496
2800	382	406	418	450	484	516	524
3000	404	428	444	474	508	544	552
3200	428	452	466	500	534	572	580
3,400	450	478	490	508	562	600	608
3600	474	500	518	524	588	628	636
3800	500	528	548	568	620	658	666
4000	520	552	576	600	648	692	700



X-CYCLONE® EVNR-W series

Capture hood with REVEN® induction and REVEX® spray system Wall-mounted version

Also available with REVEN® efficiency induction system!*

REVEN
SCHAKO Group

X-CYCLONE® EVNR-W series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Combination system consisting of the patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- Integrated, patented REVEX® spray system for fully automatic, double-sided cleaning and disinfection of the aerosol separators.
- New, globally patented induction nozzle for more efficient collection and cleaning of exhaust air.
- The effectiveness and function of the REVEN® induction nozzle, collection hood and separator have been proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame penetration testing in accordance with DIN 18869-5 and DIN EN 16282.

Further information

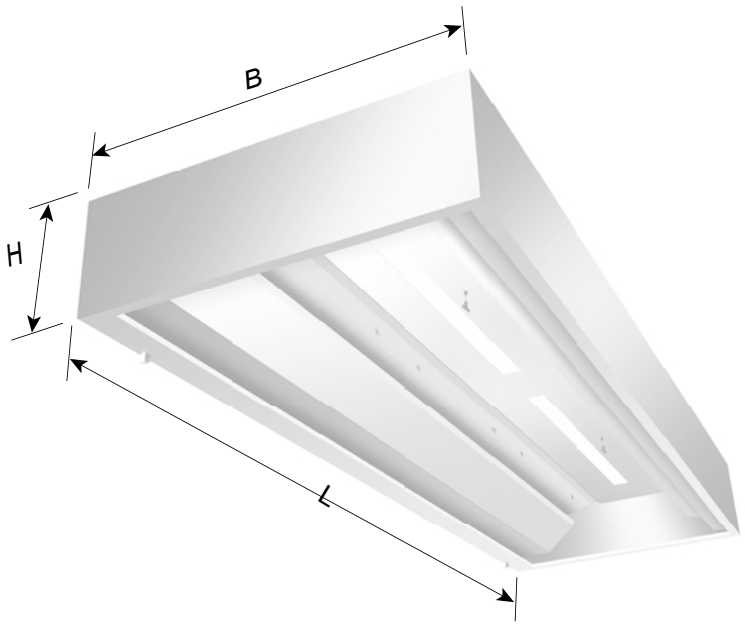
www.reven.de (Technologies → for detection) www.reven.de (Technologies → for regulation and control)
www.reven.de (Technologies → for disinfection and cleaning)

* Optionally available with advanced REVEN® efficiency induction system – for improved extraction of exhaust air without direct injection of supply air.

- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.

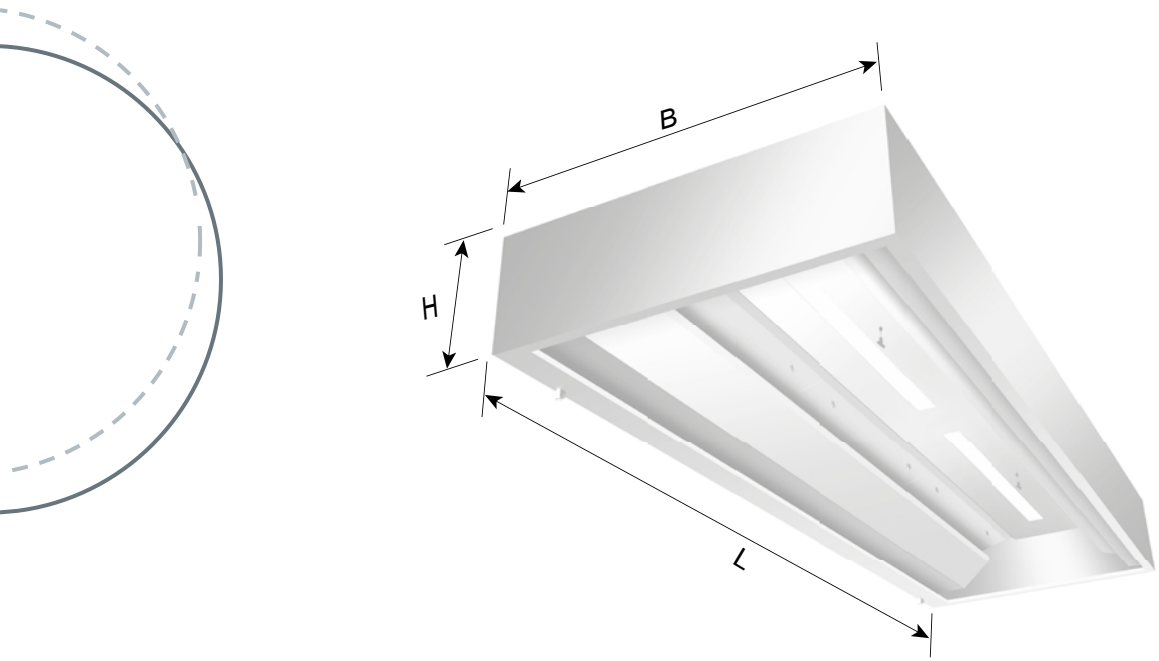


TECHNICAL DATA – X-CYCLONE® EVNR-W SERIES

Width [mm]	1200	1300	1400	1500
Height [mm]	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
1000	1000	1 x 20	1 x 750 x 150	1 x 750 x 150
1200	1000	1 x 20	1 x 750 x 150	1 x 750 x 150
1400	1500	1 x 20	1 x 750 x 150	1 x 750 x 150
1600	1500	1 x 40	1 x 750 x 150	1 x 750 x 150
1800	1500	1 x 40	1 x 750 x 150	1 x 750 x 150
2000	2000	1 x 50	1 x 750 x 150	1 x 750 x 150
2200	2000	1 x 50	1 x 750 x 150	1 x 750 x 150
2400	2500	1 x 50	1 x 750 x 150	1 x 750 x 150
2600	2500	1 x 50	2 x 750 x 150	2 x 750 x 150
2800	3000	1 x 50	2 x 750 x 150	2 x 750 x 150
3000	3000	2 x 40	2 x 750 x 150	2 x 750 x 150

X-CYCLONE® EVNR-W series



TECHNICAL DATA – X-CYCLONE® EVNR-W SERIES

Width [mm]	1200	1300	1400	1500
Height [mm]	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
3200	3500	2 x 40	2 x 750 x 150	2 x 750 x 150
3400	3500	2 x 40	2 x 750 x 150	2 x 750 x 150
3600	3500	2 x 40	2 x 750 x 150	2 x 750 x 150
3800	4000	2 x 40	2 x 750 x 150	2 x 750 x 150
4000	4000	2 x 50	2 x 750 x 150	2 x 750 x 150

Further dimensions available on request.

TECHNICAL DATA – X-CYCLONE® EVNR-W SERIES

Length [mm]	Weight [kg]			
	Width [mm]			
	1200	1300	1400	1500
1000	155	169	185	201
1200	173	186	204	221
1400	190	208	223	241
1600	209	226	245	265
1800	226	246	266	286
2000	253	273	286	318
2200	270	291	308	339
2400	286	313	335	361
2600	306	331	355	381
2800	326	351	378	404
3000	346	370	398	425
3200	364	390	418	448
3400	383	396	439	469
3600	405	409	459	491
3800	428	428	485	514
4000	450	469	506	541

X-CYCLONE® EVNR-M series

Capture hood with REVEN® induction and REVEX® spray system, centre design

Also available with REVEN® efficiency induction system!*

REVEN
SCHAKO Group

X-CYCLONE® EVNR-M series

APPLICATION

Capture and cleaning of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Combination system consisting of the patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- Integrated, patented REVEX® spray system for fully automatic, double-sided cleaning and disinfection of the aerosol separators.
- New, globally patented induction nozzle for more efficient collection and cleaning of exhaust air.
- Effectiveness and function of the REVEN® induction nozzle, collection hood and separator proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 lights.
- Fire protection in the exhaust air duct using X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.

Further information

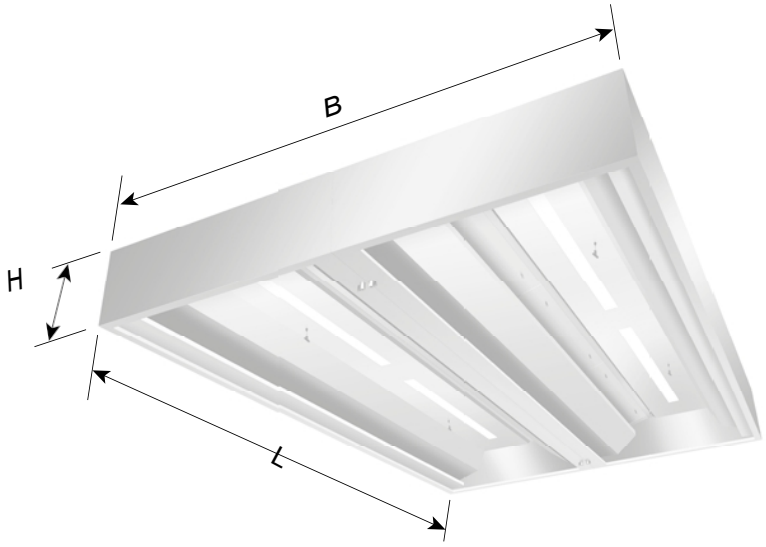
www.reven.dee (Technologies → for detection) www.reven.dee (Technologies → for regulation and control)
www.reven.de (Technologies → for disinfection and cleaning)

* Optionally available with advanced REVEN® efficiency induction system – for improved extraction of exhaust air without direct injection of supply air.

- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.

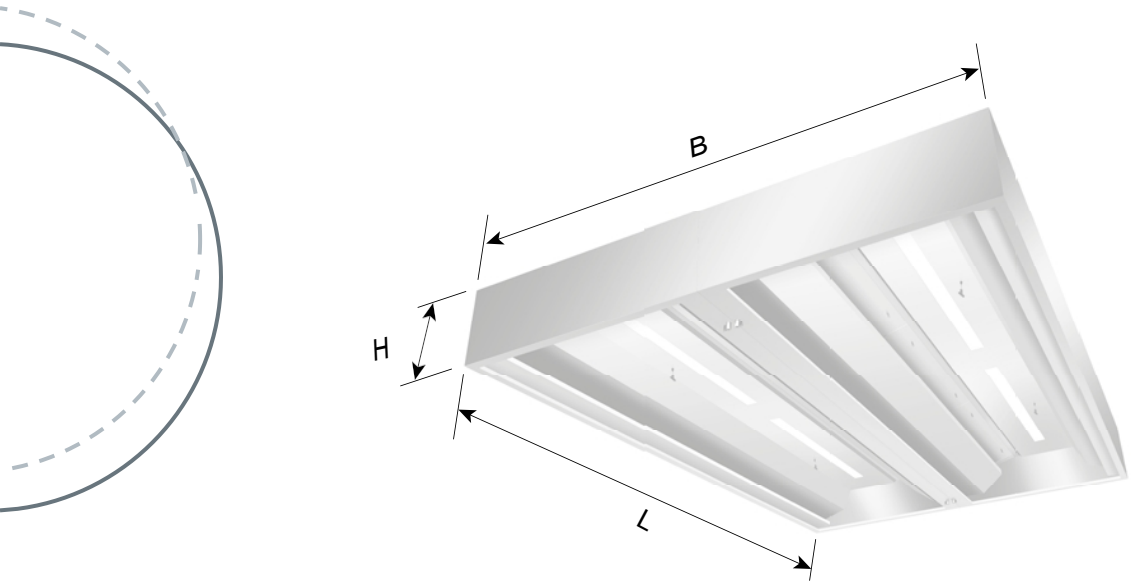


TECHNICAL DATA – X-CYCLONE® EVNR-M SERIES

Width [mm]	2400	2600	2800	3000
Height [mm]	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
1000	2000	2 x 20	2 x 750 x 150	1 x 750 x 500
1200	2000	2 x 20	2 x 750 x 150	1 x 750 x 500
1400	3000	2 x 20	2 x 750 x 150	1 x 750 x 500
1600	3000	2 x 40	2 x 750 x 150	1 x 750 x 500
1800	3000	2 x 40	2 x 750 x 150	1 x 750 x 500
2000	4000	2 x 50	2 x 750 x 150	1 x 750 x 500
2200	4000	2 x 50	2 x 750 x 150	1 x 750 x 500
2400	5000	2 x 50	2 x 750 x 150	1 x 750 x 500
2600	5000	2 x 50	4 x 750 x 150	2 x 750 x 500
2800	6000	2 x 50	4 x 750 x 150	2 x 750 x 500
3000	6000	4 x 40	4 x 750 x 150	2 x 750 x 500

X-CYCLONE® EVNR-M series



TECHNICAL DATA – X-CYCLONE® EVNR-M SERIES

Width [mm]	2400	2600	2800	3000
Height [mm]	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air flaps [mm]	Exhaust air connection [mm]
3200	7000	4 x 40	4 x 750 x 150	2 x 750 x 500
3400	7000	4 x 40	4 x 750 x 150	2 x 750 x 500
3600	7000	4 x 40	4 x 750 x 150	2 x 750 x 500
3800	8000	4 x 40	4 x 750 x 150	2 x 750 x 500
4000	8000	4 x 50	4 x 750 x 150	2 x 750 x 500

Further dimensions available on request.

TECHNICAL DATA – X-CYCLONE® EVNR-M SERIES

Length [mm]	Weight [kg]			
	Width [mm]			
	2400	2600	2800	3000
1000	310	338	370	403
1200	345	373	408	443
1400	380	415	445	483
1600	418	453	490	530
1800	453	493	533	573
2000	505	545	573	635
2200	540	585	615	678
2400	573	625	670	723
2600	613	663	710	763
2800	653	703	755	808
3000	693	740	795	850
3200	728	780	835	895
3400	765	793	878	938
3600	810	818	918	983
3800	855	855	970	1028
4000	900	938	1013	1083

X-CYCLONE® EJET-W series

Capture hood with REVEN® induction and integrated supply air system Wall version

REVENO
SCHAKO Group

X-CYCLONE® EJET-W series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

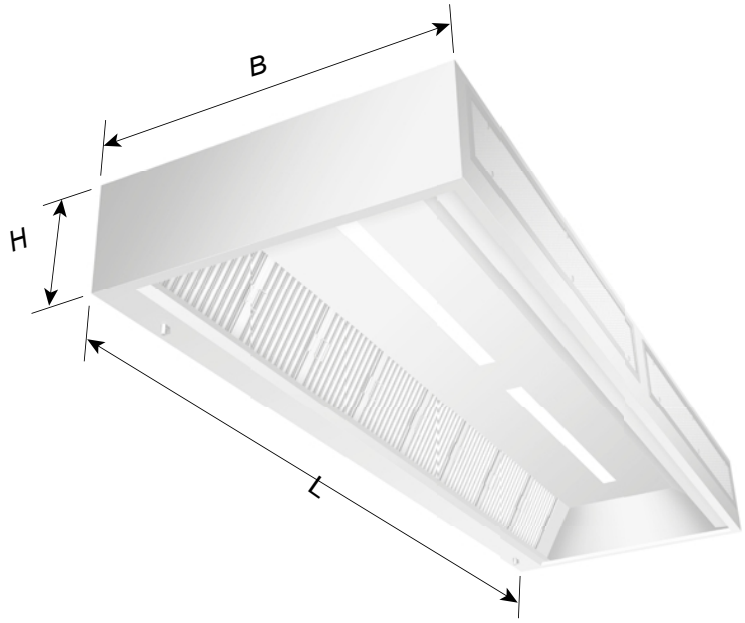
- Combination system consisting of patented REVEN® induction and X-CYCLONE® high-performance separation systems
  with a separation efficiency of up to 99.9999%.
- New, globally patented induction nozzle for more efficient extraction and purification of exhaust air.
- Integrated supply air source outlets for additional regulation of the air balance.
- The effectiveness and function of the REVEN® induction nozzle, collection hood and separator have been proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the hood body.

Further information

www.reven.de (Technologies → Collection) www.reven.de (Technologies → Regulation and Control)

ACCESSORIES

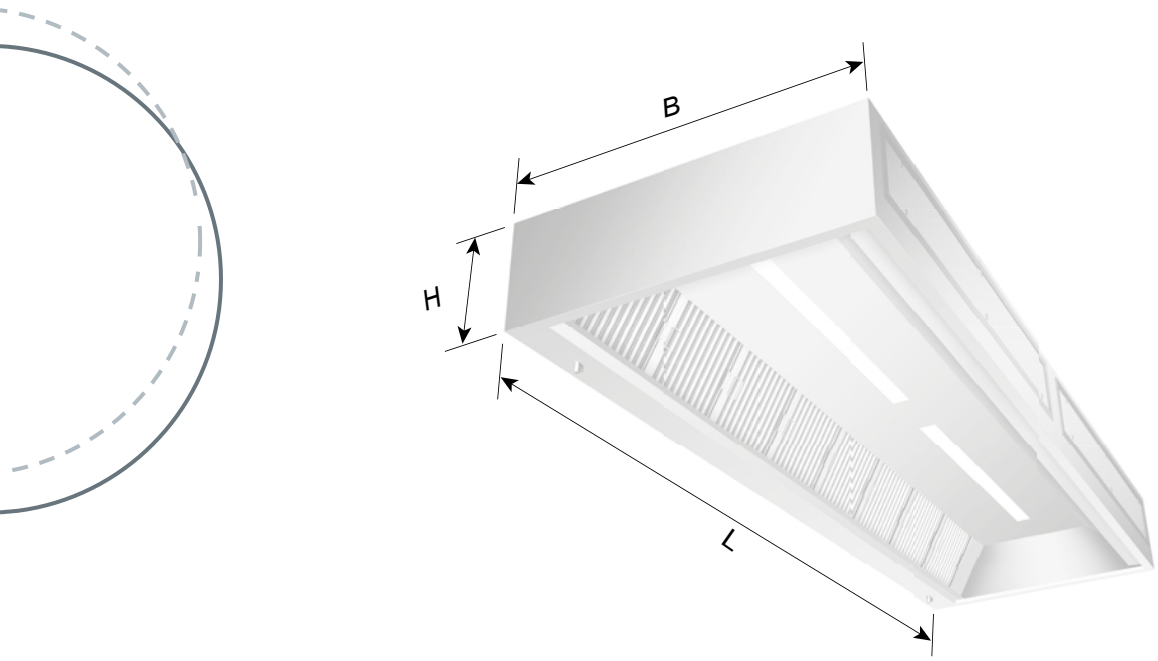
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.



TECHNICAL DATA – X-CYCLONE® EJET-W SERIES

Width [mm]	1000	110	120	1300	1400	1500	1600	1700	1800
Height [mm]	450	450	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
1000	1000	1 x 20	2 x Ø 200	1 x 500 x 250
1200	1000	1 x 20	2 x Ø 200	1 x 500 x 250
1400	1500	1 x 20	2 x Ø 200	1 x 500 x 250
1600	1500	1 x 40	2 x Ø 200	1 x 500 x 250
1800	1500	1 x 40	2 x Ø 200	1 x 500 x 250
2000	2000	1 x 50	2 x Ø 200	1 x 500 x 250
2200	2000	1 x 50	2 x Ø 200	1 x 500 x 250
2400	2500	1 x 50	2 x Ø 200	1 x 500 x 250
2600	2500	1 x 50	3 x Ø 200	2 x 500 x 250
2800	3000	1 x 50	3 x Ø 200	2 x 500 x 250
3000	3000	2 x 40	3 x Ø 200	2 x 500 x 250



TECHNICAL DATA – X-CYCLONE® EJET-W SERIES

Width [mm]	1000	1100	120	1300	1400	1500	1600	1700	1800
Height [mm]	450	450	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
3200	3500	2 x 40	3 x Ø 200	2 x 500 x 250
3400	3500	2 x 40	3 x Ø 200	2 x 500 x 250
3600	3500	2 x 40	3 x Ø 200	2 x 500 x 250
3800	4000	2 x 40	3 x Ø 200	2 x 500 x 250
4000	4000	2 x 50	3 x Ø 200	2 x 500 x 250

TECHNICAL DATA – X-CYCLONE® EJET-W SERIES

Length [mm]	Weight [kg]								
	Width [mm]								
	1000	1100	1200	1300	1400	1500	1600	1700	1800
1000	57	60	63	65	67	70	74	80	84
1200	66	68	71	73	76	78	82	88	92
1400	74	77	79	81	84	87	91	97	101
1600	83	85	87	90	92	95	99	105	109
1800	91	93	96	98	101	103	107	113	117
2000	100	102	104	107	109	111	115	121	125
2200	108	110	112	115	117	120	124	130	134
2400	117	118	120	123	125	128	132	138	142
2600	124	126	129	132	134	136	140	146	150
2800	133	135	137	140	142	144	148	154	158
3000	142	144	146	148	150	153	157	163	167
3200	150	152	154	156	158	161	165	171	175
3400	158	161	162	165	167	169	173	177	181
3600	167	169	171	173	175	178	182	188	192
3800	175	177	179	181	183	186	190	196	200
4000	183	185	187	190	192	194	198	204	208

X-CYCLONE® EJET-M series

Capture hood with REVEN® induction and integrated supply air system, centre version

REVENO
SCHAKO Group

X-CYCLONE® EJET-M series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

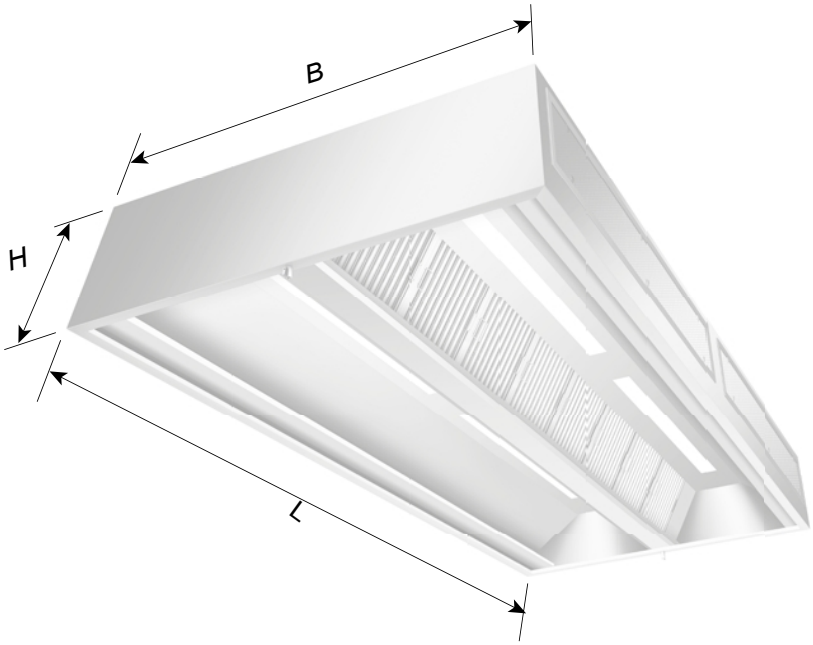
- Combination system consisting of the patented REVEN® induction and X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- New, globally patented induction nozzle for more efficient capture and cleaning of exhaust air.
- Integrated supply air source outlets for additional regulation of the air balance.
- Effectiveness and function of the REVEN® induction nozzle, collection hood and separator proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the hood body.

Further information

www.reven.de (Technologies → Collection) www.reven.de (Technologies → Regulation and Control)

ACCESSORIES

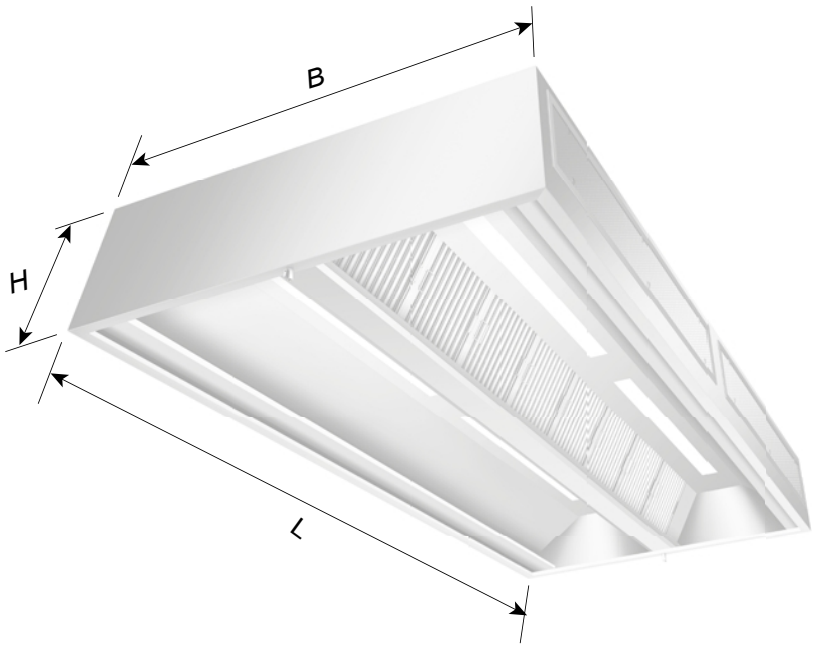
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.



TECHNICAL DATA – X-CYCLONE® EJET-M SERIES

Width [mm]	2000	2200	2400	2600	2800	3000	3200
Height [mm]	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
1000	2000	2 x 20	4 x Ø 200	1 x 500 x 500
1200	2000	2 x 20	4 x Ø 200	1 x 500 x 500
1400	300	2 x 20	4 x Ø 200	1 x 500 x 500
1600	3000	2 x 40	4 x Ø 200	1 x 500 x 500
1800	4000	2 x 40	4 x Ø 200	1 x 500 x 500
2000	4000	2 x 50	4 x Ø 200	1 x 500 x 500
2200	4000	2 x 50	4 x Ø 200	1 x 500 x 500
2400	500	2 x 50	4 x Ø 200	1 x 500 x 500
2600	5000	2 x 50	6 x Ø 200	2 x 500 x 500
2800	6000	2 x 50	6 x Ø 200	2 x 500 x 500
3000	6000	4 x 40	6 x Ø 200	2 x 500 x 500



TECHNICAL DATA – X-CYCLONE® EJET-M SERIES

Width [mm]	2000	2200	2400	2600	2800	3000	3200
Height [mm]	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
3200	7000	4 x 40	6 x Ø 200	2 x 500 x 500
3400	7000	4 x 40	6 x Ø 200	2 x 500 x 500
3600	8000	4 x 40	6 x Ø 200	2 x 500 x 500
3800	8000	4 x 40	8 x Ø 200	2 x 500 x 500
4000	8000	4 x 50	8 x Ø 200	2 x 500 x 500

TECHNICAL DATA – X-CYCLONE® EJET-M SERIES

Length [mm]	Weight [kg]						
	Width [mm]						
	2000	2200	2400	2600	2800	3000	3200
1000	118	121	125	130	135	139	147
1200	134	138	141	146	152	156	164
1400	150	154	158	163	168	172	180
1600	166	171	175	180	185	189	197
1800	183	187	191	196	201	205	213
2000	200	204	208	213	218	223	231
2200	216	220	225	230	235	239	247
2400	234	237	241	247	252	256	264
2600	250	254	258	263	268	272	280
2800	267	270	275	280	284	289	297
3000	284	287	292	296	300	306	314
3200	300	304	308	313	316	323	331
3400	317	321	325	330	333	340	348
3600	333	337	342	347	349	356	364
3800	349	354	359	363	366	373	381
4000	366	370	374	380	384	389	397

X-CYCLONE® EQA-W series

Capture hood with integrated supply air system Wall version

REVENO
SCHAKO Group

X-CYCLONE® EQA-W series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Combination system consisting of patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- Integrated supply air source outlets for additional regulation of the air balance.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production are 100% rust-free in accordance with the requirements

Further information

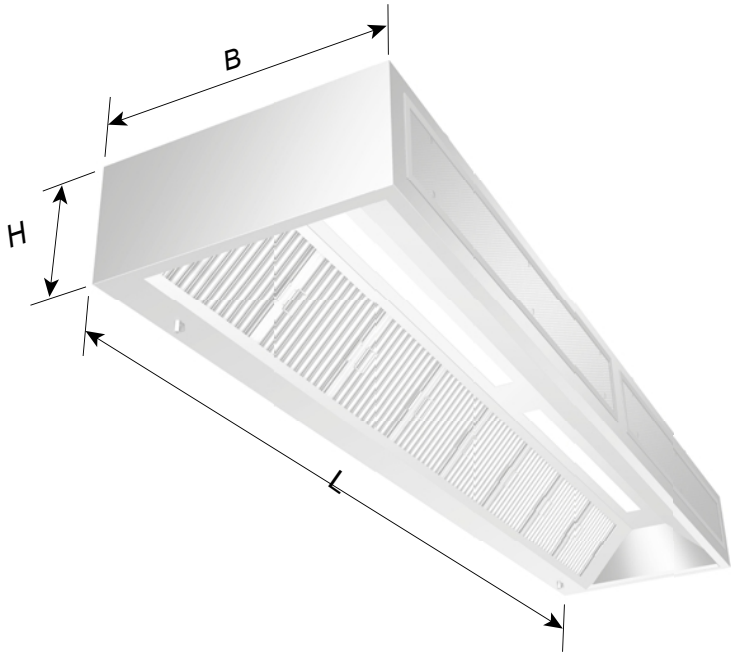
www.reven.de (Technologies → for regulation and control)

of the Trademark Association Edelstahl Rostfrei e.V.

- Designed, engineered and manufactured in Germany.

ACCESSORIES

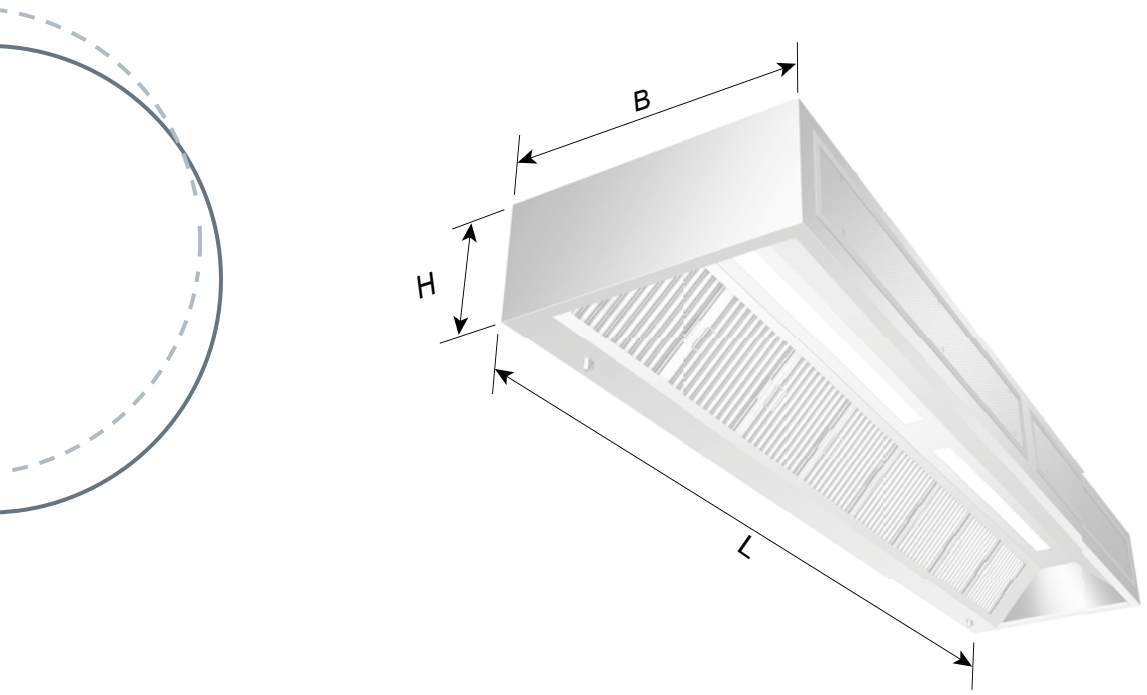
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.



TECHNICAL DATA – X-CYCLONE® EQA-W SERIES

Width [mm]	1100	1200	1300	1400	1500	1600
Height [mm]	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
1000	1000	1 x 20	2 x Ø 200	1 x 500 x 250
1200	1000	1 x 20	2 x Ø 200	1 x 500 x 250
1400	1500	1 x 20	2 x Ø 200	1 x 500 x 250
1600	1500	1 x 40	2 x Ø 200	1 x 500 x 250
1800	1500	1 x 40	2 x Ø 200	1 x 500 x 250
2000	2000	1 x 50	2 x Ø 200	1 x 500 x 250
2200	2000	1 x 50	2 x Ø 200	1 x 500 x 250
2400	2500	1 x 50	2 x Ø 200	1 x 500 x 250
2600	2500	1 x 50	3 x Ø 200	2 x 500 x 250
2800	3000	1 x 50	3 x Ø 200	2 x 500 x 250
3000	3000	2 x 40	3 x Ø 200	2 x 500 x 250



TECHNICAL DATA – X-CYCLONE® EQA-W SERIES

Width [mm]	1100	1200	1300	1400	1500	1600
Height [mm]	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
3200	3500	2 x 40	3 x Ø 200	2 x 500 x 250
3400	3500	2 x 40	3 x Ø 200	2 x 500 x 250
3600	3500	2 x 40	3 x Ø 200	2 x 500 x 250
3800	4000	2 x 40	3 x Ø 200	2 x 500 x 250
4000	4000	2 x 50	3 x Ø 200	2 x 500 x 250

TECHNICAL DATA – X-CYCLONE® EQA-W SERIES

Length [mm]	Weight [kg]					
	Width [mm]					
	1100	1200	1300	1400	1500	1600
1000	40	43	46	49	51	55
1200	45	49	51	54	58	62
1400	52	56	58	62	66	70
1600	58	61	65	68	72	76
1800	63	67	70	75	78	82
2000	68	73	77	81	85	89
2200	74	78	83	87	92	96
2400	80	85	89	94	99	103
2600	85	90	95	101	105	109
2800	92	97	103	108	114	118
3000	97	103	109	114	121	125
3200	103	109	115	121	128	132
3400	108	114	121	128	134	138
3600	113	120	127	133	140	144
3800	122	125	132	140	147	151
4000	125	132	140	148	155	159

X-CYCLONE® EQA-M series

Capture hood with integrated supply air system, centre design

REVENO
SCHAKO Group

X-CYCLONE® EQA-M series

APPLICATION

Capture and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Combined system consisting of patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- Integrated supply air source outlets for additional regulation of the air balance.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production 100% rust-free in accordance with the requirements

Further information

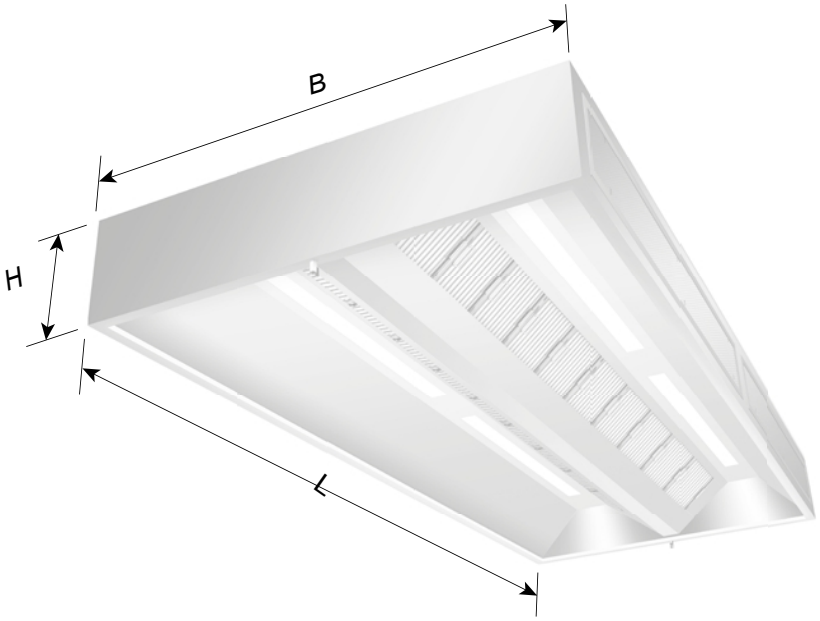
www.reven.de (Technologies → for regulation and control)

of the Trademark Association Edelstahl Rostfrei e.V.

- Designed, engineered and manufactured in Germany.

ACCESSORIES

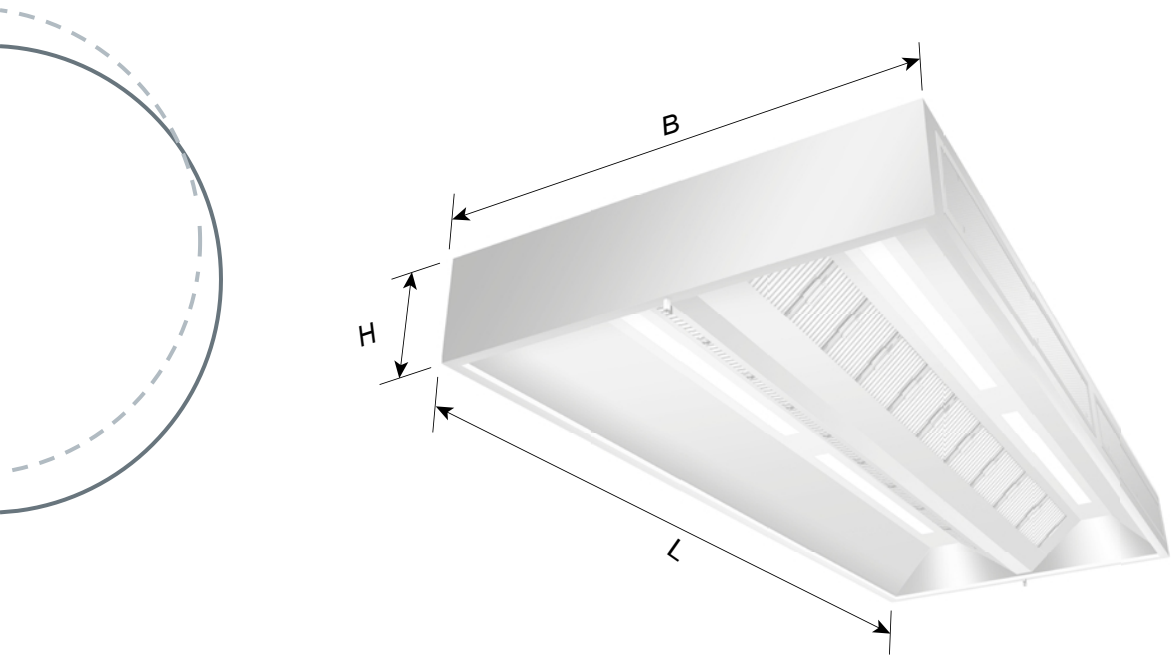
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.



TECHNICAL DATA – X-CYCLONE® EQA-M SERIES

Width [mm]	2100	2200	2400	2600	2800	3000
Height [mm]	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
1000	2000	2 x 20	4 x Ø 200	1 x 500 x 500
1200	2000	2 x 20	4 x Ø 200	1 x 500 x 500
1400	300	2 x 20	4 x Ø 200	1 x 500 x 500
1600	3000	2 x 40	4 x Ø 200	1 x 500 x 500
1800	4000	2 x 40	4 x Ø 200	1 x 500 x 500
2000	4000	2 x 50	4 x Ø 200	1 x 500 x 500
2200	4000	2 x 50	4 x Ø 200	1 x 500 x 500
2400	5000	2 x 50	4 x Ø 200	1 x 500 x 500
2600	5000	2 x 50	6 x Ø 200	2 x 500 x 500
2800	6000	2 x 50	6 x Ø 200	2 x 500 x 500
3000	6000	4 x 40	6 x Ø 200	2 x 500 x 500



TECHNICAL DATA – X-CYCLONE® EQA-M SERIES

Width [mm]	2100	2200	2400	2600	2800	3000
Height [mm]	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Supply air connection [mm]	Exhaust air connection [mm]
3200	7000	4 x 40	6 x Ø 200	2 x 500 x 500
3400	7000	4 x 40	6 x Ø 200	2 x 500 x 500
3600	8000	4 x 40	6 x Ø 200	2 x 500 x 500
3800	8000	4 x 40	8 x Ø 200	2 x 500 x 500
4000	8000	4 x 50	8 x Ø 200	2 x 500 x 500

TECHNICAL DATA – X-CYCLONE® EQA-M SERIES

Length [mm]	Weight [kg]					
	Width [mm]					
	2100	2200	2400	2600	2800	3000
1000	87	90	96	102	108	114
1200	97	100	108	114	120	128
1400	112	116	124	130	138	146
1600	124	128	136	144	152	160
1800	135	140	148	156	166	174
2000	148	152	162	172	180	190
2200	159	164	174	184	194	204
2400	172	178	188	198	210	220
2600	183	188	200	212	224	234
2800	200	204	216	228	240	254
3000	212	216	228	242	254	268
3200	224	228	242	256	270	284
3400	236	240	254	270	284	298
3600	248	252	266	282	296	312
3800	268	272	278	294	310	326
4000	274	278	294	312	328	344

X-CYCLONE® EVSR-W series

Capture hood with X-CYCLONE® air purification and REVEX® spray system Wall-mounted version

REVENO
SCHAKO Group

X-CYCLONE® EVSR-W series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Integrated, patented REVEX® spray system for fully automatic, double-sided cleaning and disinfection of the aerosol separators.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of the vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production 100% rust-free in accordance with the requirements

Further information

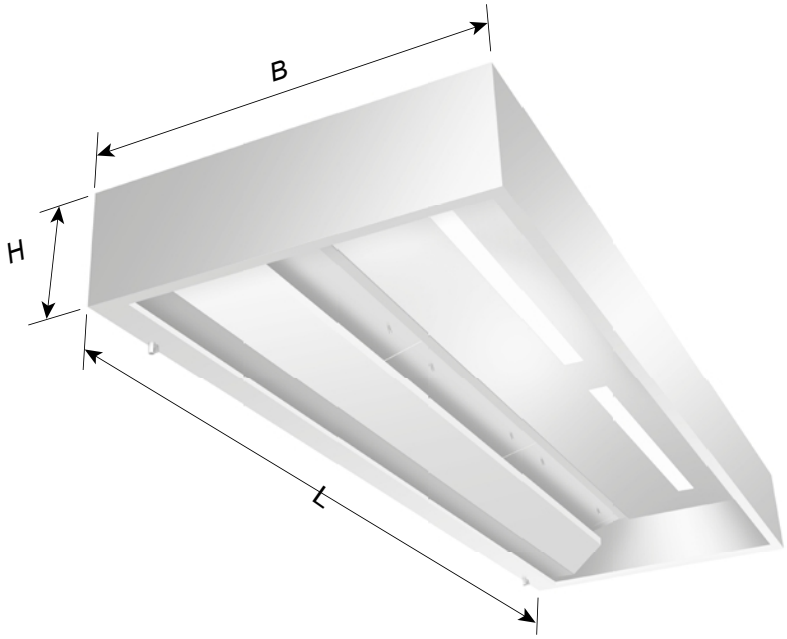
www.reven.de (Technologies → for regulation and control) www.reven.de (Technologies → for disinfection and cleaning)

of the Trademark Association Edelstahl Rostfrei e.V.

- Designed, engineered and manufactured in Germany.

ACCESSORIES

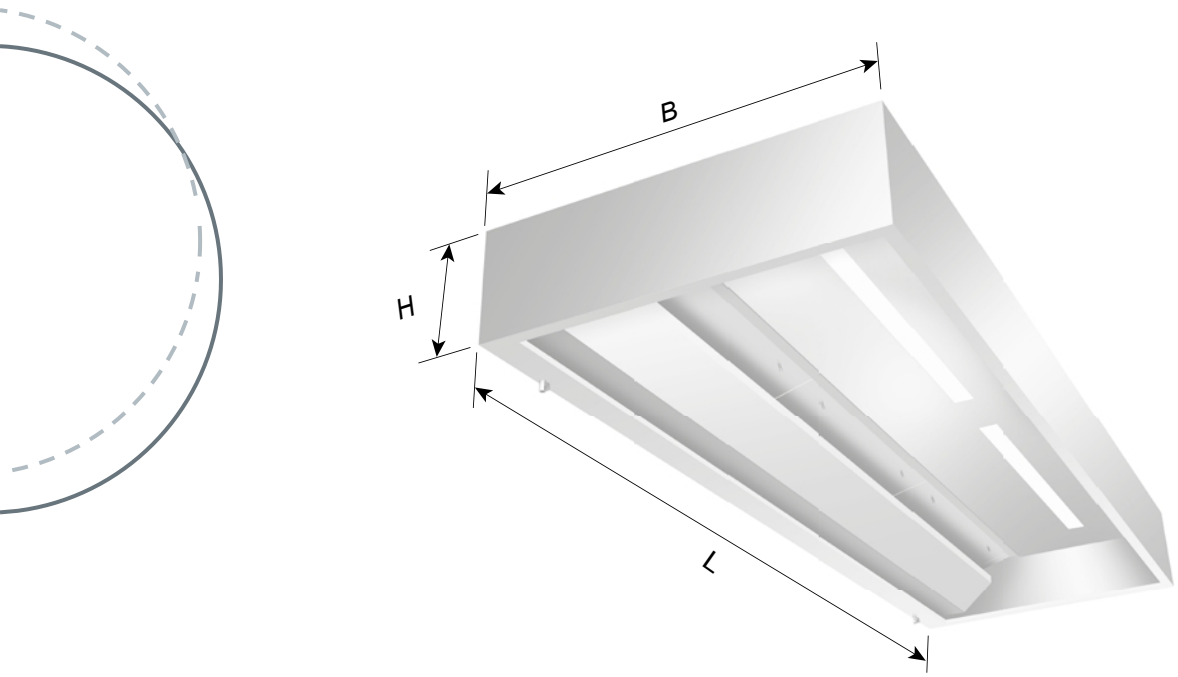
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EVSR-W SERIES

Width [mm]	1000	110	120	1300	1400	1500	1600	1700	1800
Height [mm]	450	450	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
1000	800	1 x 20	1 x 500 x 250
1200	800	1 x 20	1 x 500 x 250
1400	1200	1 x 20	1 x 500 x 250
1600	1200	1 x 40	1 x 500 x 250
1800	1200	1 x 40	1 x 500 x 250
2000	1600	1 x 50	1 x 500 x 250
2200	1600	1 x 50	1 x 500 x 250
2400	2000	1 x 50	1 x 500 x 250
2600	2000	1 x 50	2 x 500 x 250
2800	2400	1 x 50	2 x 500 x 250
3000	2400	2 x 40	2 x 500 x 250



TECHNICAL DATA – X-CYCLONE® EVSR-W SERIES

Width [mm]	1000	1100	120	1300	1400	1500	1600	1700	1800
Height [mm]	450	450	450	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
3200	2800	2 x 40	2 x 500 x 250
3400	2800	2 x 40	2 x 500 x 250
3600	2800	2 x 40	2 x 500 x 250
3800	3200	2 x 40	2 x 500 x 250
4000	3200	2 x 50	2 x 500 x 250

Further dimensions available on request.

TECHNICAL DATA – X-CYCLONE® EVSR-W SERIES

Length [mm]	Weight [kg]								
	Width [mm]								
	1000	1100	1200	1300	1400	1500	1600	1700	1800
1000	84	90	96	102	108	114	118	124	128
1200	84	100	108	114	120	128	132	138	142
1400	108	116	124	130	138	146	150	156	160
1600	120	128	136	144	152	160	164	170	174
1800	130	140	148	156	166	174	178	184	188
2000	144	152	162	172	180	190	194	200	204
2200	154	164	174	184	194	204	208	214	218
2400	166	178	188	198	210	220	224	230	234
2600	178	188	200	212	224	234	238	244	248
2800	192	204	216	228	240	254	258	264	268
3000	202	216	228	242	254	268	272	278	282
3200	216	228	242	256	270	284	288	294	298
3400	226	240	254	270	284	298	302	308	312
3600	236	252	266	282	296	312	316	322	326
3800	248	272	278	294	310	326	330	336	340
4000	262	278	294	312	328	344	348	354	358

X-CYCLONE® EVSR-M series

Capture hood with X-CYCLONE® air cleaning and REVEX® spray system, medium design

REVENO
SCHAKO Group

X-CYCLONE® EVSR-M series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

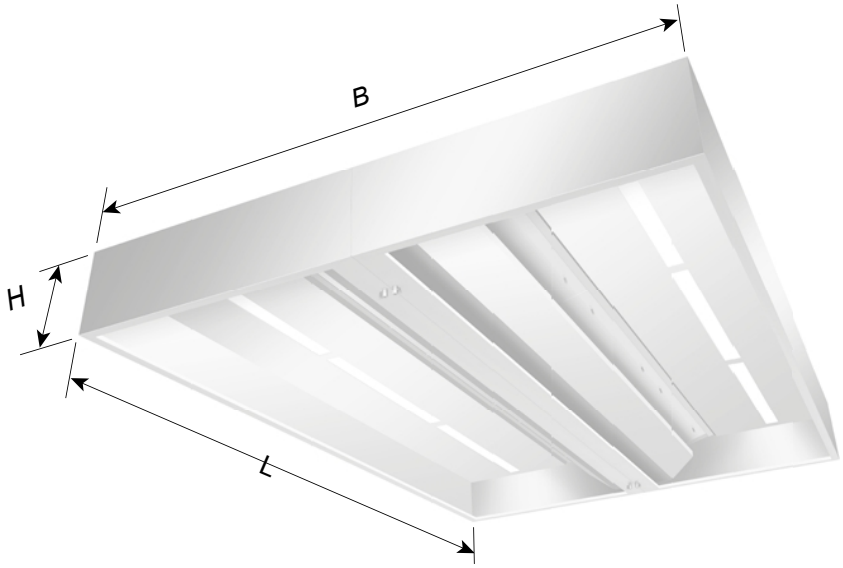
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Integrated, patented REVEX® spray system for fully automatic, double-sided cleaning and disinfection of the aerosol separators.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of the vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production are 100% rustproof in accordance with the requirements

Further information

www.reven.de (Technologies → for regulation and control) www.reven.de (Technologies → for disinfection and cleaning)

of the Trademark Association Edelstahl Rostfrei e.V.

- Designed, engineered and manufactured in Germany.



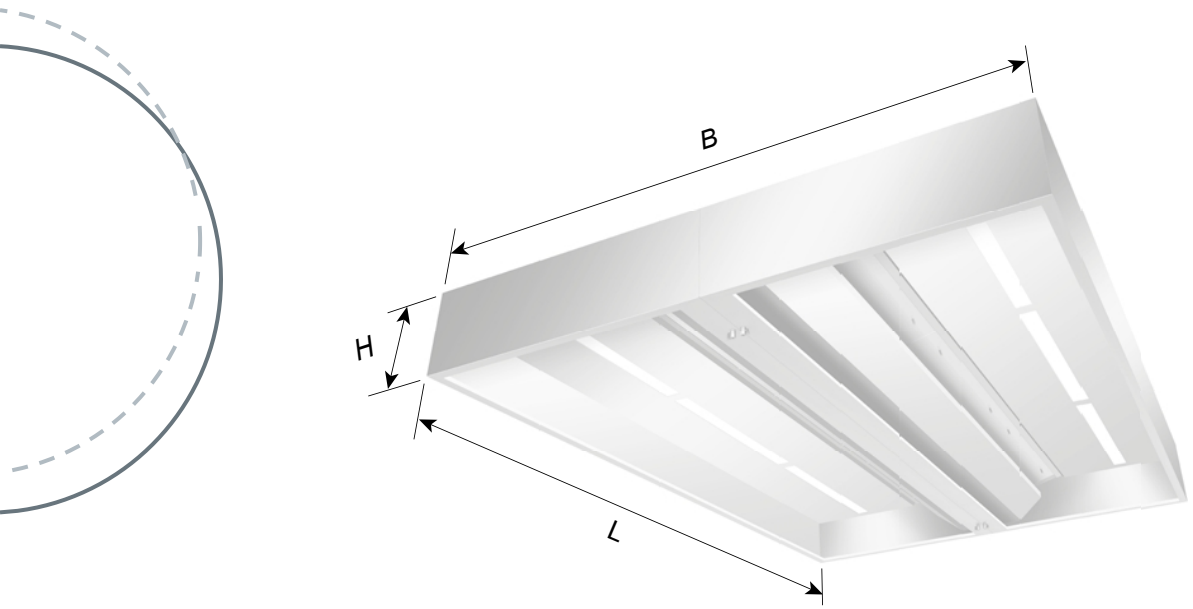
ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.

TECHNICAL DATA – X-CYCLONE® EVSR-M SERIES

Width [mm]	2000	2200	2400	2600	2800	3000
Height [mm]	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
1000	1600	2 x 20	2 x 500 x 250
1200	1600	2 x 20	2 x 500 x 250
1400	1600	2 x 20	2 x 500 x 250
1600	2400	2 x 40	2 x 500 x 250
1800	2400	2 x 40	2 x 500 x 250
2000	3200	2 x 50	2 x 500 x 250
2200	3200	2 x 50	2 x 500 x 250
2400	4000	2 x 50	2 x 500 x 250
2600	4000	2 x 50	2 x 500 x 500
2800	4800	2 x 50	2 x 500 x 500
3000	4800	4 x 40	2 x 500 x 500



TECHNICAL DATA – X-CYCLONE® EVSR-M SERIES

Width [mm]	2000	2200	2400	2600	2800	3000
Height [mm]	450	450	450	450	450	450

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
3200	5600	4 x 40	2 x 500 x 500
3400	5600	4 x 40	2 x 500 x 500
3600	5600	4 x 40	2 x 500 x 500
3800	6400	4 x 40	2 x 500 x 500
4000	6400	4 x 50	2 x 500 x 500

Further dimensions available on request.

TECHNICAL DATA – X-CYCLONE® EVSR-M SERIES

Length [mm]	Weight [kg]					
	Width [mm]					
	2000	2200	2400	2600	2800	3000
1000	168	180	192	204	216	228
1200	188	200	216	228	240	256
1400	216	232	248	260	276	292
1600	240	256	272	288	304	320
1800	260	280	296	312	332	348
2000	288	304	324	344	360	380
2200	308	328	348	368	388	408
2400	332	356	376	396	420	440
2600	356	376	400	424	448	468
2800	384	408	432	456	480	508
3000	404	432	456	484	508	536
3200	432	456	484	512	540	568
3400	452	480	508	540	568	596
3600	472	504	532	564	592	624
3800	496	544	556	588	620	652
4000	524	556	588	624	656	688

X-CYCLONE® EVS-W series

Capture hood with X-CYCLONE® air purification system, wall-mounted version

REVENO
SCHAKO Group

X-CYCLONE® EVS-W series

APPLICATION

Capture and cleaning of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

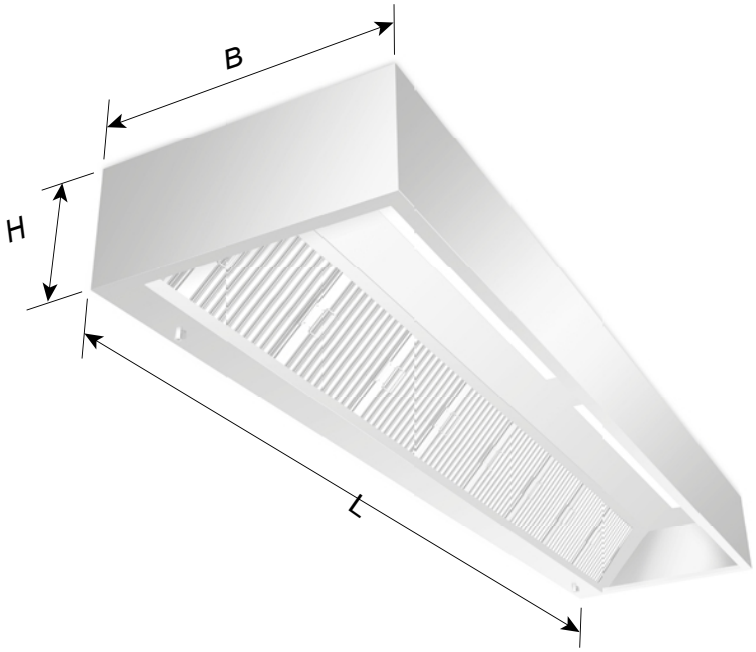
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

Further information

www.reven.de (Technologies → for regulation and control)

ACCESSORIES

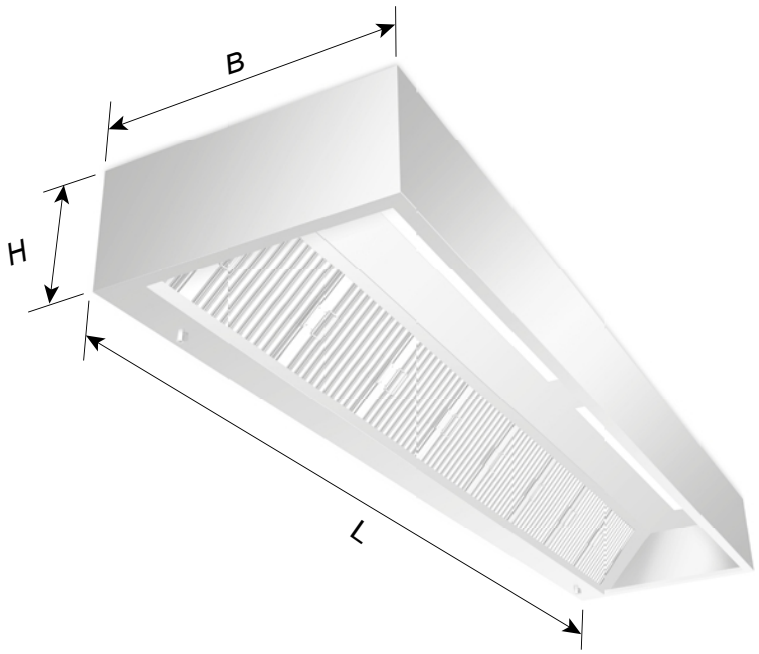
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EVS-W SERIES

Width [mm]	900	100	110	1200	1300	1400	1500	1600
Height [mm]	420	420	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
1000	1000	1 x 20	1 x 500 x 250
1200	1000	1 x 20	1 x 500 x 250
1400	1500	1 x 20	1 x 500 x 250
1600	1500	1 x 40	1 x 500 x 250
1800	2000	1 x 40	1 x 500 x 250
2000	2000	1 x 50	1 x 500 x 250
2200	2000	1 x 50	1 x 500 x 250
2400	2500	1 x 50	1 x 500 x 250
2600	2500	1 x 50	2 x 500 x 250
2800	3000	1 x 50	2 x 500 x 250
3000	3000	2 x 40	2 x 500 x 250



TECHNICAL DATA – X-CYCLONE® EVS-W SERIES

Width [mm]	900	1000	110	1200	1300	1400	1500	1600
Height [mm]	420	420	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Connected load for lighting [W]	Exhaust air connection [mm]
3200	3500	2 x 40	2 x 500 x 250
3400	3500	2 x 40	2 x 500 x 250
3600	4000	2 x 40	2 x 500 x 250
3800	4000	2 x 40	2 x 500 x 250
4000	4000	2 x 50	2 x 500 x 250

With the REVEN Configurator, you can also customise the hood online as desired and download the BIM data:
https://bim.reven.de/#/configurator?SelectedElementID=4

TECHNICAL DATA – X-CYCLONE® EVS-W SERIES

Length [mm]	Weight [kg]							
	Width [mm]							
	900	1000	1100	1200	1300	1400	1500	1600
1000	39	42	45	48	51	54	57	60
1200	44	47	50	54	57	60	64	68
1400	51	54	58	62	65	69	73	77
1600	56	60	64	68	72	76	80	85
1800	61	65	70	74	78	83	87	93
2000	67	72	76	81	86	90	95	101
2200	72	77	82	87	92	97	102	108
2400	78	83	89	94	99	105	110	116
2600	83	89	94	100	106	112	117	124
2800	90	96	102	108	114	120	127	135
3000	95	101	108	114	121	127	134	141
3200	101	108	114	121	128	135	142	149
3400	106	113	120	127	135	142	149	156
3600	111	118	126	133	141	148	156	163
3800	116	124	136	139	147	155	163	171
4000	123	131	139	147	156	164	172	179

X-CYCLONE® EVS-M series

Capture hood with X-CYCLONE® air purification system, medium version

REVENO
SCHAKO Group

X-CYCLONE® EVS-M series

APPLICATION

Capture and cleaning of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

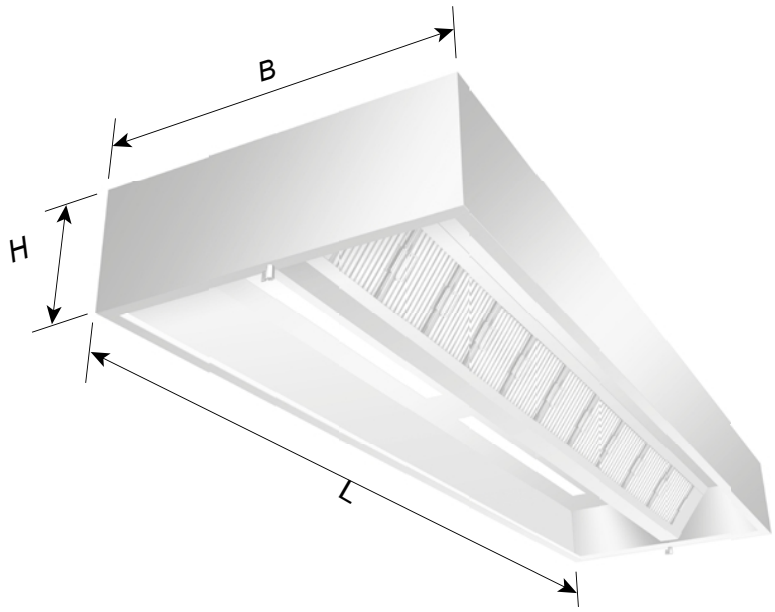
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of the vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

Further information

www.reven.de (Technologies → for regulation and control)

ACCESSORIES

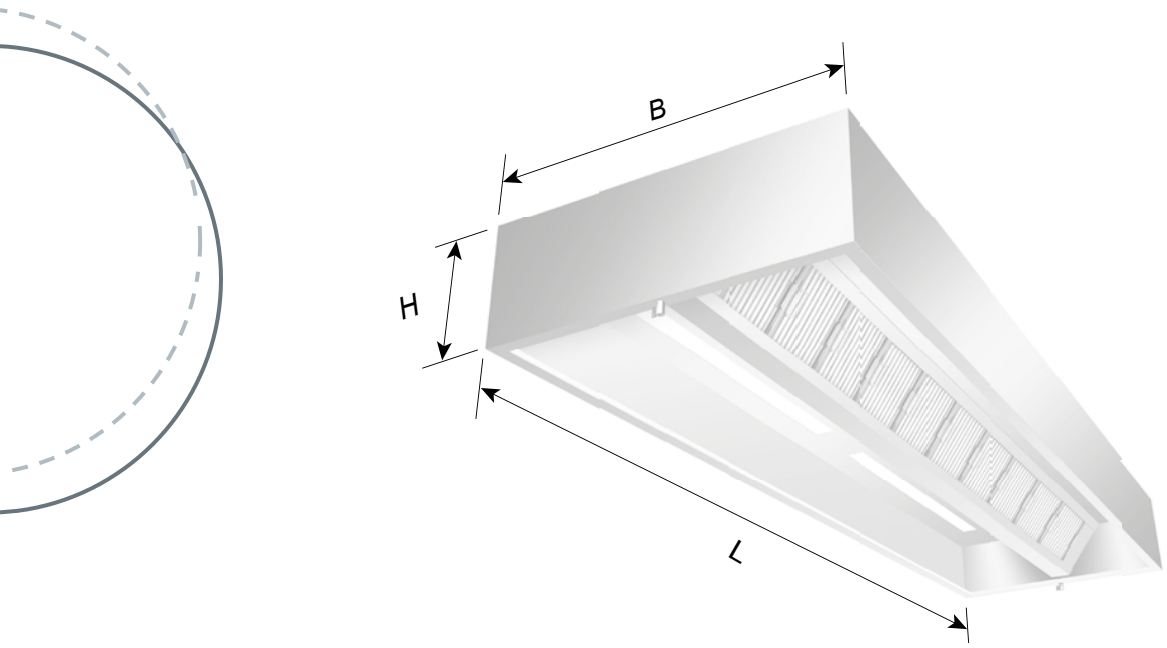
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EVS-M SERIES

Width [mm]	1600	1800	2000	2200	2400	2600	2800	3000
Height [mm]	420	420	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
1000	2000	2 x 20	1 x 500 x 500
1200	2000	2 x 20	1 x 500 x 500
1400	3000	2 x 20	1 x 500 x 500
1600	3000	2 x 40	1 x 500 x 500
1800	4000	2 x 40	1 x 500 x 500
2000	4000	2 x 50	1 x 500 x 500
2200	4000	2 x 50	1 x 500 x 500
2400	6000	2 x 50	1 x 500 x 500
2600	6000	2 x 50	2 x 500 x 500
2800	7000	2 x 50	2 x 500 x 500
3000	7000	4 x 40	2 x 500 x 500



TECHNICAL DATA – X-CYCLONE® EVS-M SERIES

Width [mm]	1600	1800	2000	2200	2400	2600	2800	3000
Height [mm]	420	420	420	420	420	420	420	420

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
3200	8000	4 x 40	2 x 500 x 500
3400	8000	4 x 40	2 x 500 x 500
3600	9000	4 x 40	2 x 500 x 500
3800	9000	4 x 40	2 x 500 x 500
4000	9000	4 x 50	2 x 500 x 500

With the REVEN Configurator, you can also customise the cover online as desired and download the BIM data:
https://bim.reven.de/#/configurator?SelectedElementID=5

TECHNICAL DATA – X-CYCLONE® EVS-M SERIES

Length [mm]	Weight [kg]							
	Width [mm]							
	1600	1800	2000	2200	2400	2600	2800	3000
1000	72	78	84	90	96	102	108	114
1200	80	86	93	101	109	118	127	137
1400	94	102	110	118	128	138	149	161
1600	104	112	121	131	141	153	165	178
1800	112	121	131	141	152	165	178	192
2000	124	134	145	156	169	182	197	213
2200	134	145	156	169	182	197	213	230
2400	156	168	181	196	212	229	247	247
2600	154	166	180	194	210	226	244	264
2800	168	181	196	212	229	247	267	288
3000	176	190	205	222	239	259	279	302
3200	188	203	219	237	256	276	298	322
3400	198	214	231	249	269	291	314	339
3600	206	222	240	260	280	303	327	353
3800	216	233	252	272	294	317	343	370
4000	230	248	268	290	313	338	365	394

X-CYCLONE® EAS series

Inexpensive and compact extraction hood with X-CYCLONE® air purification system

REVENO
SCHAKO Group

X-CYCLONE® EAS series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

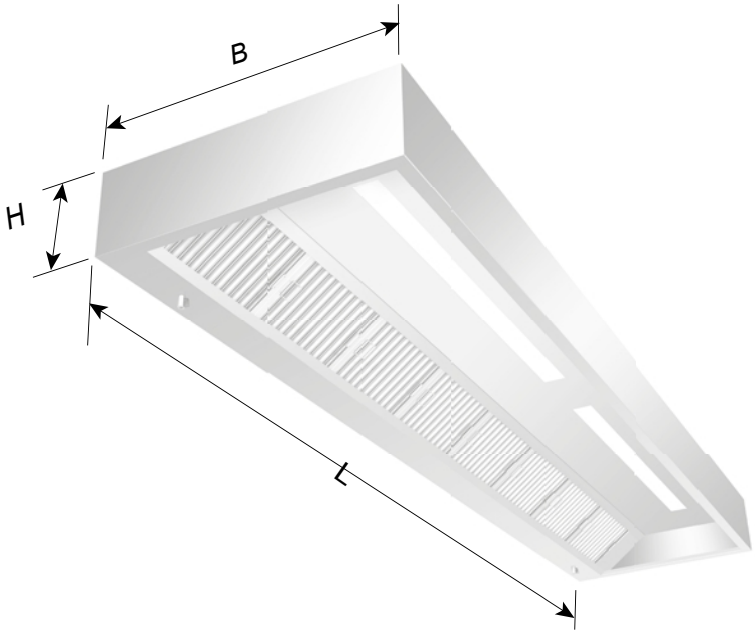
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production are 100% rustproof in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

Further information

www.reven.de (Technologies → for regulation and control)

ACCESSORIES

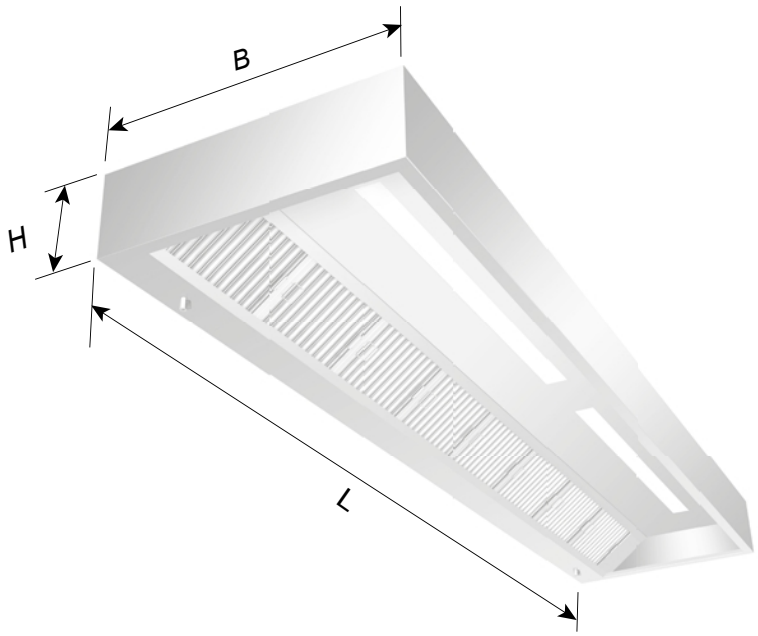
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EAS SERIES

Width [mm]	900	100	110	1200	1300	1400	1500	1600
Height [mm]	300	300	300	300	300	300	300	300

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Exhaust air connection [mm]
1000	640	1 x 20	1 x 500 x 250
1200	640	1 x 20	1 x 500 x 250
1400	960	1 x 20	1 x 500 x 250
1600	960	1 x 40	1 x 500 x 250
1800	1280	1 x 40	1 x 500 x 250
2000	1280	1 x 50	1 x 500 x 250
2200	1280	1 x 50	1 x 500 x 250
2400	1600	1 x 50	1 x 500 x 250
2600	1600	1 x 50	2 x 500 x 250
2800	1920	1 x 50	2 x 500 x 250
3000	1920	2 x 40	2 x 500 x 250



TECHNICAL DATA – X-CYCLONE® EAS SERIES

Width [mm]	900	1000	110	120	1300	1400	1500	1600
Height [mm]	300	300	300	300	300	300	300	300

Length [mm]	Air volume [m³/h]	Connected load for lighting [W]	Exhaust air connection [mm]
3200	2240	2 x 40	2 x 500 x 250
3400	2240	2 x 40	2 x 500 x 250
3600	2560	2 x 40	2 x 500 x 250
3800	2560	2 x 40	2 x 500 x 250
4000	2560	2 x 50	2 x 500 x 250

With the REVEN Configurator, you can also customise the hood online as desired and download the BIM data:
https://bim.reven.de/#/configurator?SelectedElementID=6

TECHNICAL DATA – X-CYCLONE® EAS SERIES

Length [mm]	Weight [kg]							
	Width [mm]							
	900	1000	1100	1200	1300	1400	1500	1600
1000	37	42	47	53	60	67	75	85
1200	42	47	53	59	67	75	84	95
1400	48	54	61	68	77	86	97	109
1600	53	60	67	76	85	96	107	121
1800	57	65	73	82	92	104	116	131
2000	64	72	81	91	102	115	129	145
2200	68	77	87	97	109	123	138	155
2400	73	83	93	105	118	132	149	167
2600	79	89	100	112	126	142	159	179
2800	85	96	108	121	136	153	172	193
3000	89	101	113	128	143	161	181	203
3200	95	108	121	136	153	172	193	217
3400	100	113	127	143	160	180	202	227
3600	104	118	133	149	167	188	211	237
3800	110	124	139	157	176	198	222	250
4000	116	131	147	165	186	209	235	264

X-CYCLONE® E1S series

Single-sided capture module with X-CYCLONE® air purification system

REVENO
SCHAKO Group

X-CYCLONE® E1S Series

APPLICATION

Collection and cleaning of exhaust air from processing machines, food production facilities and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as cooling lubricants, spray mists or steam vapours.

Suitable as a pre-separator directly above the processing area; installation directly on the exhaust air duct.

TECHNICAL HIGHLIGHTS

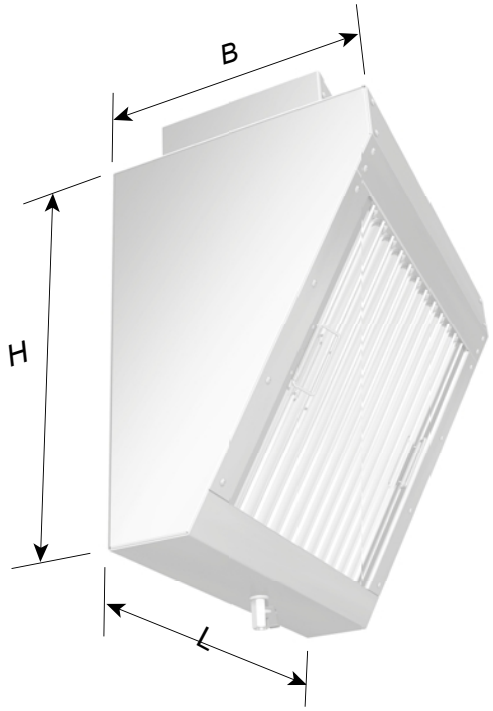
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the separators proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame penetration testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on the X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Collection module and all materials used in production are 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

Further information

www.reven.de (Technologies → for regulation and control)

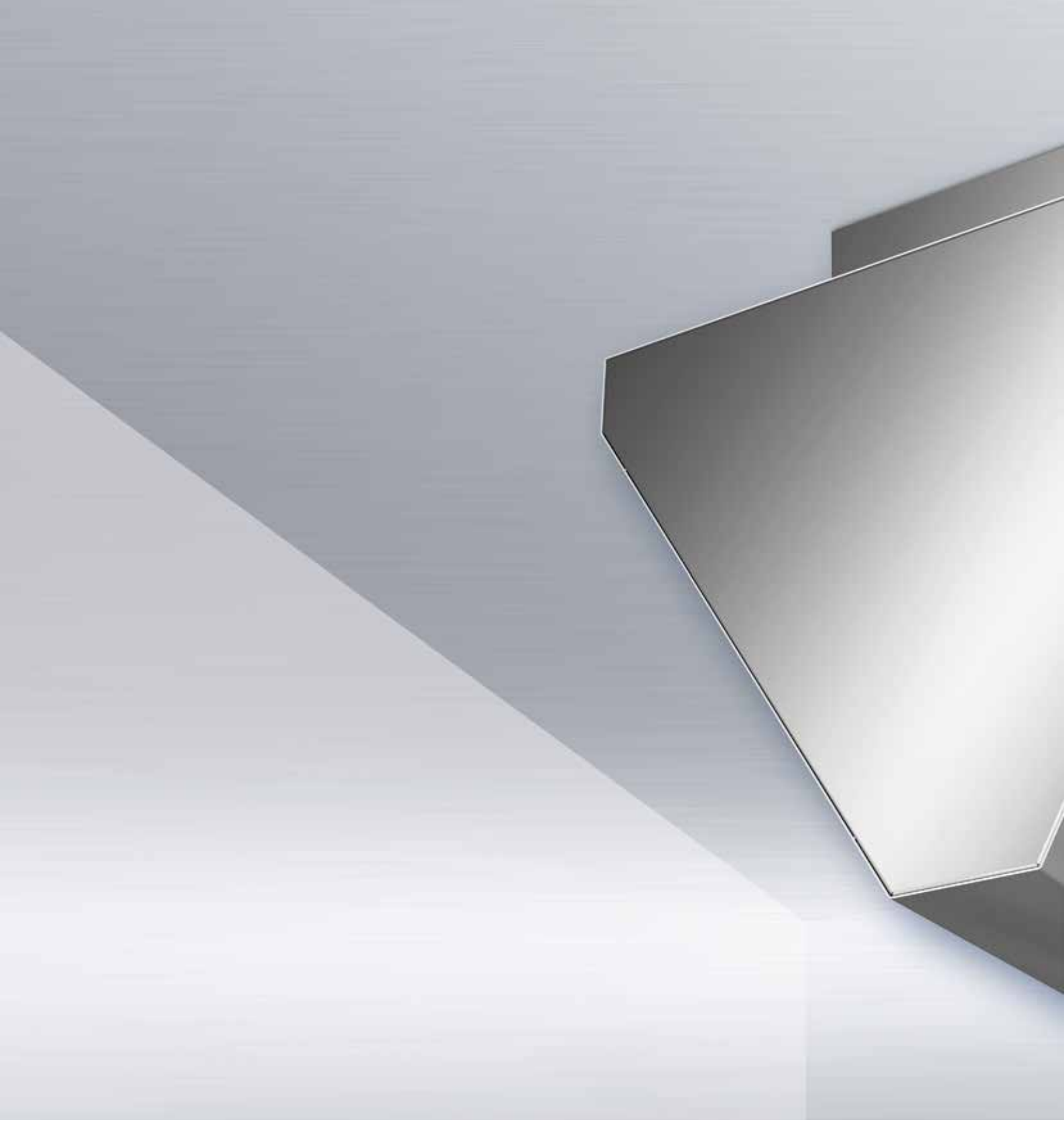
ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® E1S SERIES

Device type	Air volume [m³/h]	Dimensions			Weight [kg]
		Length [mm]	Width [mm]	Heigh t [mm]	
E1S-01	1500	605	380	550	29
E1S-02	3000	1095	380	550	52
E1S-03	2000	605	440	660	33
E1S-04	4000	1095	440	660	57
E1S-05	6000	1585	440	660	85
E1S-06	2250	605	480	720	38
E1S-07	4750	1095	480	720	61
E1S-08	7250	1585	480	720	86
E1S-09	7500	1495	520	790	87
E1S-10	11000	2185	520	790	113
E1S-11	8500	1495	575	885	92
E1S-12	12,500	2185	575	885	133
E1S-13	16,500	2875	575	885	163
E1S-14	9500	1495	645	1005	104
E1S-15	14500	2185	645	1005	144
E1S-16	19500	2875	645	1005	192



X-CYCLONE® E2S Series

Double-sided collection module with X-CYCLONE® air purification system

REVENO
SCHAKO Group

X-CYCLONE® E2S series

APPLICATION

Collection and cleaning of exhaust air from processing machines, food production facilities and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as cooling lubricants, spray mists or steam vapours.

Suitable as a pre-separator directly above the processing area; installation directly on the exhaust air duct.

TECHNICAL HIGHLIGHTS

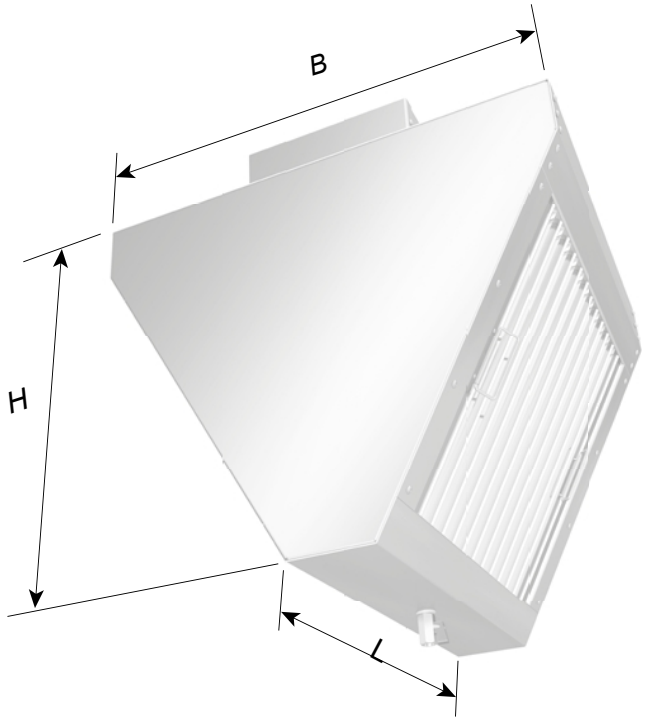
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the separators proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame penetration testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime guarantee on the X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Capture module and all materials used in production 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

Further information

www.reven.de (Technologies → for regulation and control)

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® E2S SERIES

Device type	Air volume [m³/h]	Dimensions			Weight [kg]
		Length [mm]	Width [mm]	Heigh t [mm]	
E2S-01	3000	605	650	550	35
E2S-02	6000	1095	650	550	65
E2S-03	4000	605	770	660	42
E2S-04	8000	1095	770	660	74
E2S-05	12000	1585	770	660	122
E2S-06	4500	605	850	720	45
E2S-07	9500	1095	850	720	82
E2S-08	14500	1585	850	720	132
E2S-09	15000	1495	930	790	116
E2S-10	22,000	2185	930	790	167
E2S-11	17,000	1495	1040	885	130
E2S-12	25,000	2185	1040	885	182
E2S-13	33000	2875	1040	885	233
E2S-14	19000	1495	1180	1005	162
E2S-15	29000	2185	1180	1005	199
E2S-16	39000	2875	1180	1005	253

X-CYCLONE® EGJ series

Capture hood for installation with REVEN® induction system

Also available with REVEN® efficiency induction system!*

REVEN
SCHAKO Group

X-CYCLONE® EGJ series

APPLICATION

Capture and cleaning of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

Suitable for installation at the production or preparation site.

TECHNICAL HIGHLIGHTS

- Combination system consisting of the patented REVEN® induction and X-CYCLONE® high-performance separation system
  with a separation efficiency of up to 99.9999%.
- New, globally patented induction nozzle for more efficient collection and cleaning of exhaust air.
- Effectiveness and function of separators proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame spread testing in accordance with DIN 18869-5 and DIN EN 16282.
- Lifetime warranty on X-CYCLONE® aerosol separator basic elements and the rust resistance of the hood body.

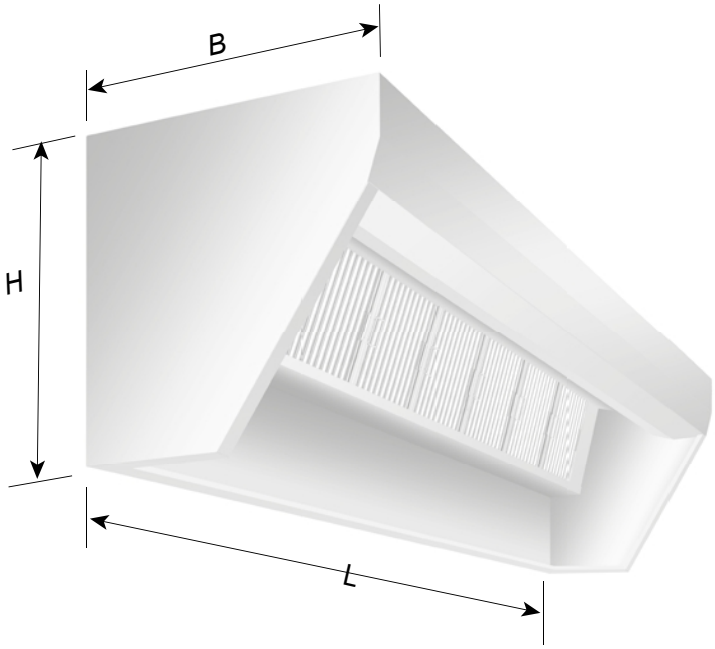
Further information

www.reven.de (Technologies → for regulation and control)

* Optionally available with advanced REVEN® efficiency induction system – for improved extraction of exhaust air without direct injection of supply air.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.



TECHNICAL DATA – X-CYCLONE® EGJ SERIES

Air volume [m³/h]	Dimensions					Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Supply air flaps [mm]	Exhaust air connection [mm]	
1000	1000	750	810	1 x 750 x 125	1 x 750 x 150	87
1000	1200	750	810	1 x 750 x 125	1 x 750 x 150	98
1500	1400	750	810	1 x 750 x 125	1 x 750 x 150	109
1500	1600	750	810	1 x 750 x 125	1 x 750 x 150	120
2000	1800	750	810	1 x 750 x 125	1 x 750 x 150	132
2000	2000	750	810	1 x 750 x 125	1 x 750 x 150	146
2000	2200	750	810	1 x 750 x 125	1 x 750 x 150	157
2500	2400	750	810	1 x 750 x 125	1 x 750 x 150	168
2500	2600	750	810	2 x 750 x 125	2 x 750 x 150	180
3000	2800	750	810	2 x 750 x 125	2 x 750 x 150	191
3000	3000	750	810	2 x 750 x 125	2 x 750 x 150	202
3500	3200	750	810	2 x 750 x 125	2 x 750 x 150	214
3500	3400	750	810	2 x 750 x 125	2 x 750 x 150	225
4000	3600	750	810	2 x 750 x 125	2 x 750 x 150	237
4000	3800	750	810	2 x 750 x 125	2 x 750 x 150	250
4000	4000	750	810	2 x 750 x 125	2 x 750 x 150	260

X-CYCLONE® EGS series

Capture hood for installation with X-CYCLONE® air purification system

REVENO
SCHAKO Group

X-CYCLONE® EGS series

APPLICATION

Capture and cleaning of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

Suitable for installation at the production or preparation site.

TECHNICAL HIGHLIGHTS

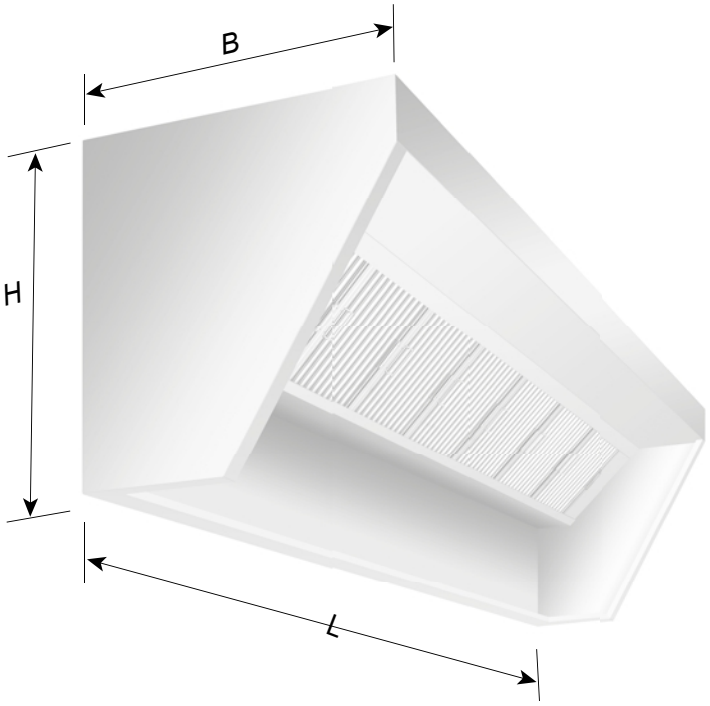
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the separators proven by CFD flow analysis.
- Fire protection in the exhaust air duct thanks to X-CYCLONE® basic elements with flame penetration testing in accordance with DIN 18869-5 and DIN EN 16282.
- Effective protection against contamination of the exhaust air duct.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Hood and all materials used in production 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).

Further information

www.reven.de (Technologies → for regulation and control)

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.
- REVEN® UV system for the reduction of odours and the destruction of microorganisms.
- REVEN® ECOJET supply air source outlet for supplementary regulation of the air balance when using capture hoods.

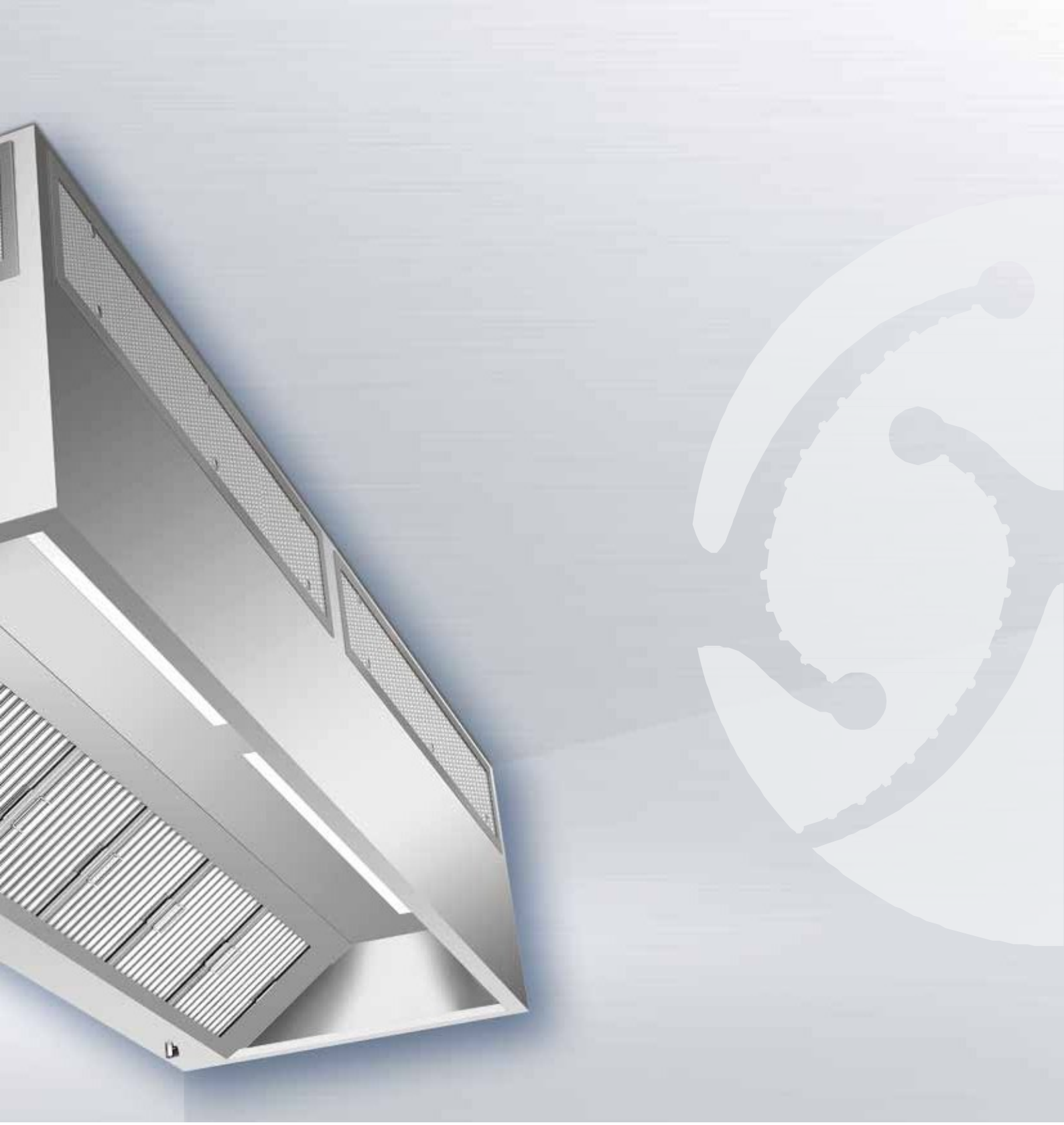


TECHNICAL DATA – X-CYCLONE® EGS SERIES

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Heigh t [mm]	Exhaust air connection [mm]	
1000	1000	750	810	1 x 750 x 150	48
1000	1200	750	810	1 x 750 x 150	54
1500	1400	750	810	1 x 750 x 150	62
1500	1600	750	810	1 x 750 x 150	68
2000	1800	750	810	1 x 750 x 150	74
2000	2000	750	810	1 x 750 x 150	81
2000	2200	750	810	1 x 750 x 150	87
2500	2400	750	810	1 x 750 x 150	94
2500	2600	750	810	2 x 750 x 150	100
3000	2800	750	810	2 x 750 x 150	108
3000	3000	750	810	2 x 750 x 150	114
3500	3200	750	810	2 x 750 x 150	121
3500	3400	750	810	2 x 750 x 150	127
4000	3600	750	810	2 x 750 x 150	133
4000	3800	750	810	2 x 750 x 150	139
4000	4000	750	810	2 x 750 x 150	147

X-CYCLONE® EGU series

Recirculation hood with X-CYCLONE® air purification system for reducing organic odours



REVENO
SCHAKO Group

X-CYCLONE® EGU series

APPLICATION

Collection and purification of exhaust air from production facilities in the food industry and preparation equipment in commercial kitchens using the recirculation principle. Separation of water- and oil-containing aerosols, such as spray mists or steam vapours.

TECHNICAL HIGHLIGHTS

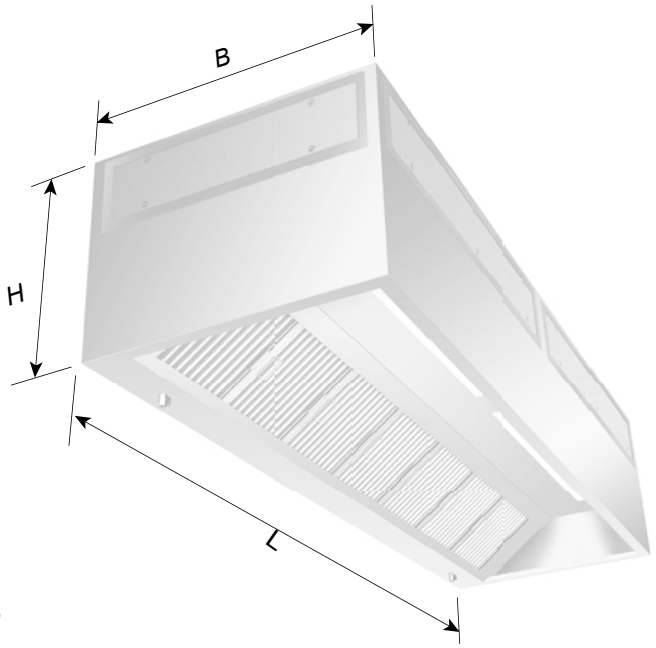
- Combination system consisting of patented REVEN® induction and X-CYCLONE® high-performance separation systems
  with a separation efficiency of up to 99.9999%.
- RGN99 high-performance granulate as a food-safe alternative to activated carbon. Odour reduction through oxidation of odour molecules in the exhaust air.
- Oxidation process using potassium permanganate and zeolite volcanic rock. Odours are broken down by reaction with potassium permanganate, and remaining odour particles are captured by the molecular sieve of the zeolite volcanic rock carrier material.
- Integrated supply air source outlets for additional regulation of the air balance.
- Effectiveness and function of the separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of the vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Lifetime warranty on X-CYCLONE® aerosol separator base elements and the rust resistance of the hood body.

Further information

www.reven.de (Technologies → for regulation and control)

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of exhaust air volume flow.



TECHNICAL DATA – X-CYCLONE® EGU SERIES

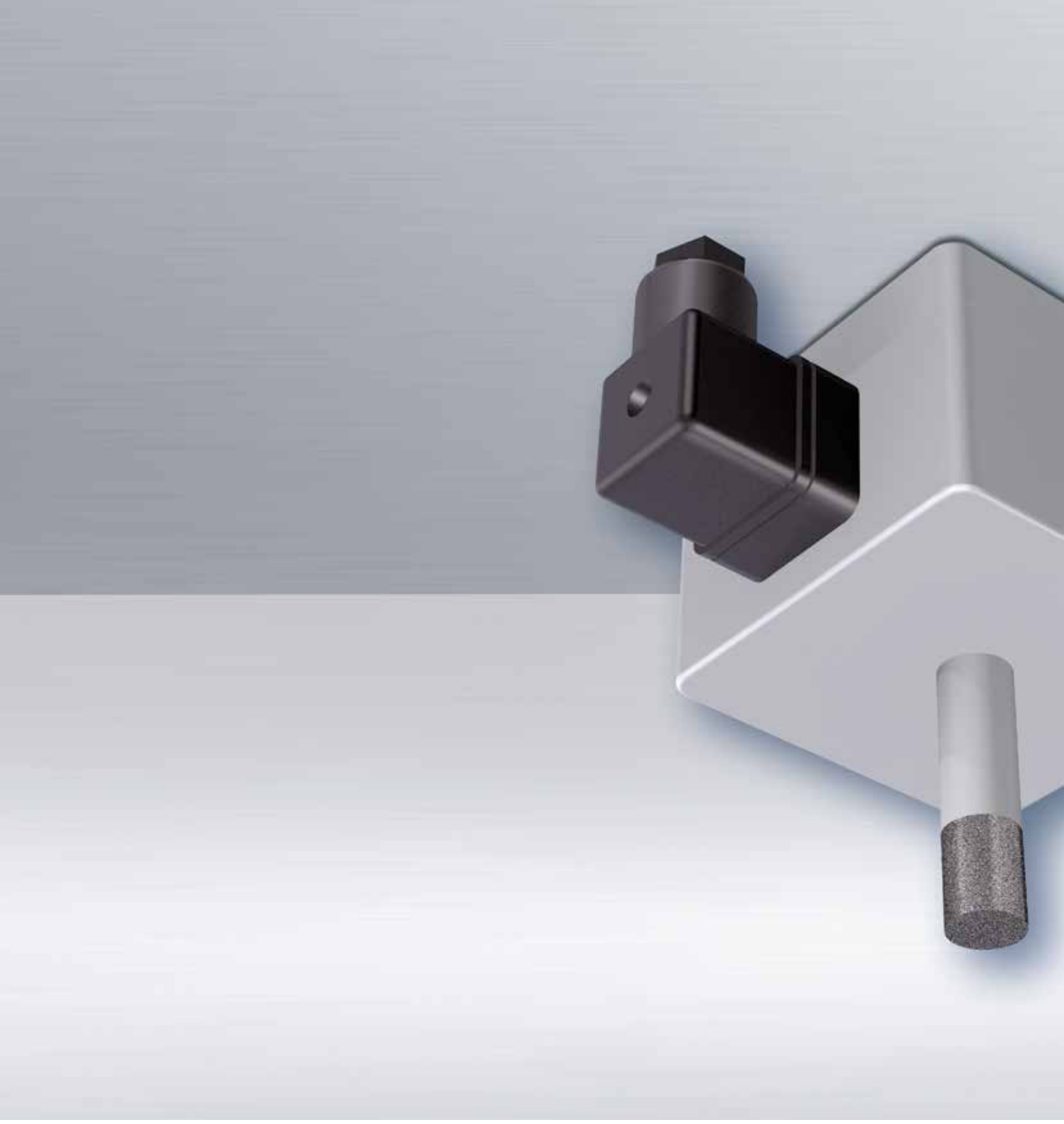
Width [mm]	1000	110	1200	1300	1400	1500
Height [mm]	720	720	720	720	720	720

Length [mm]	Air volume [m³/h]	Lighting power consumption [W]	Power consumption Fan [W]
850	500	–	355 – 400
900	1000	–	355 – 400
1000	1000	1 x 20	355 – 400
1200	1000	1 x 20	355 – 400
1400	1200	1 x 20	355 – 400
1600	1200	1 x 40	355 – 400
1800	1200	1 x 40	355 – 400

With the REVEN Configurator, you can also customise the hood online as desired and download the BIM data:

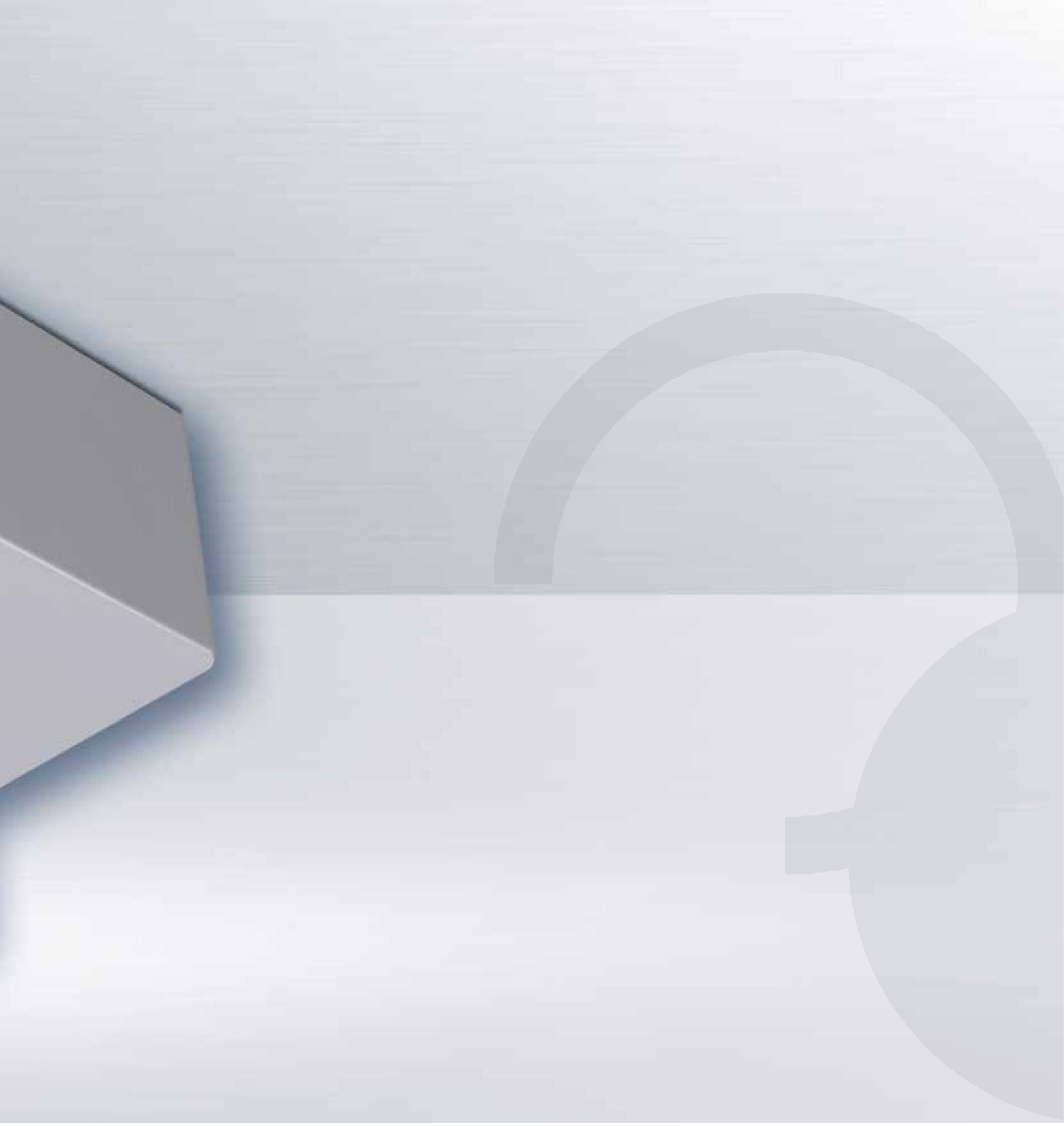
https://bim.reven.de/#/configurator?SelectedElementID=7

Length [mm]	Weight [kg]					
	Width [mm]					
	1000	1100	1200	1300	1400	1500
850	73	79	84	90	96	102
900	79	85	90	96	102	108
1000	84	90	96	102	108	114
1200	94	100	108	114	120	128
1400	108	116	124	130	138	146
1500	114	122	130	137	145	153
1600	120	128	135	140	150	160
1800	132	146	158	165	178	186



REVEN® RSC series

Energy-saving sensor for detection hoods and ventilation ceilings



REVENO
SCHAKO Group

REVEN® RSC series

APPLICATION

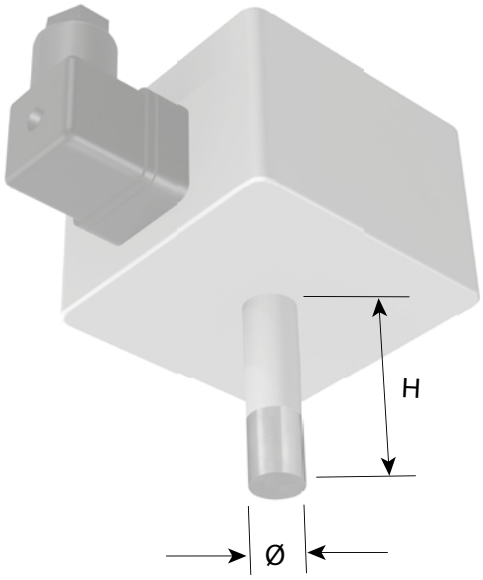
Monitoring, control and regulation of exhaust air flow volume in duct installation systems, detection hoods and ventilation ceilings.

TECHNICAL HIGHLIGHTS

- Automatic control of the exhaust air volume flow according to room temperature and humidity.
- Stepless automatic control with very fast adjustment of the output signal between 0 and 10 volts. Reaction to climate changes (temperature and humidity) within a maximum of two seconds.
- Limitation of the air volume flow to the minimum value to ensure separation efficiency.
- Adjustable maximum and minimum values for temperature and humidity. Output signal of 0 V at minimum value and 10 V at maximum value.
- Humidity and temperature sensors protected from contamination by easy-to-clean sintered metal casings.
- Power supply via special power supply unit with smoothed output voltage: input voltage 230 V ~ output voltage 25 V =

Further information

www.reven.de (Technologies → for regulation and control)



TECHNICAL DATA – REVEN® RSC SERIES

Device type	Voltage [V]	Signals		Dimensions	
		Humidity [V]	Temperature [V]	Height [mm]	Diameter [mm]
RSC sensor	24	0 – 10	0 – 10	50	14

Note:
Please also refer to the information on page 32.

X-CYCLONE® UV series

UV system for exhaust air treatment for extraction hoods and ventilation ceilings

REVENO
SCHAKO Group

X-CYCLONE® UV series

APPLICATION

Reduction of organic odours in the exhaust air from food production facilities or preparation equipment in commercial kitchens using UV radiation.

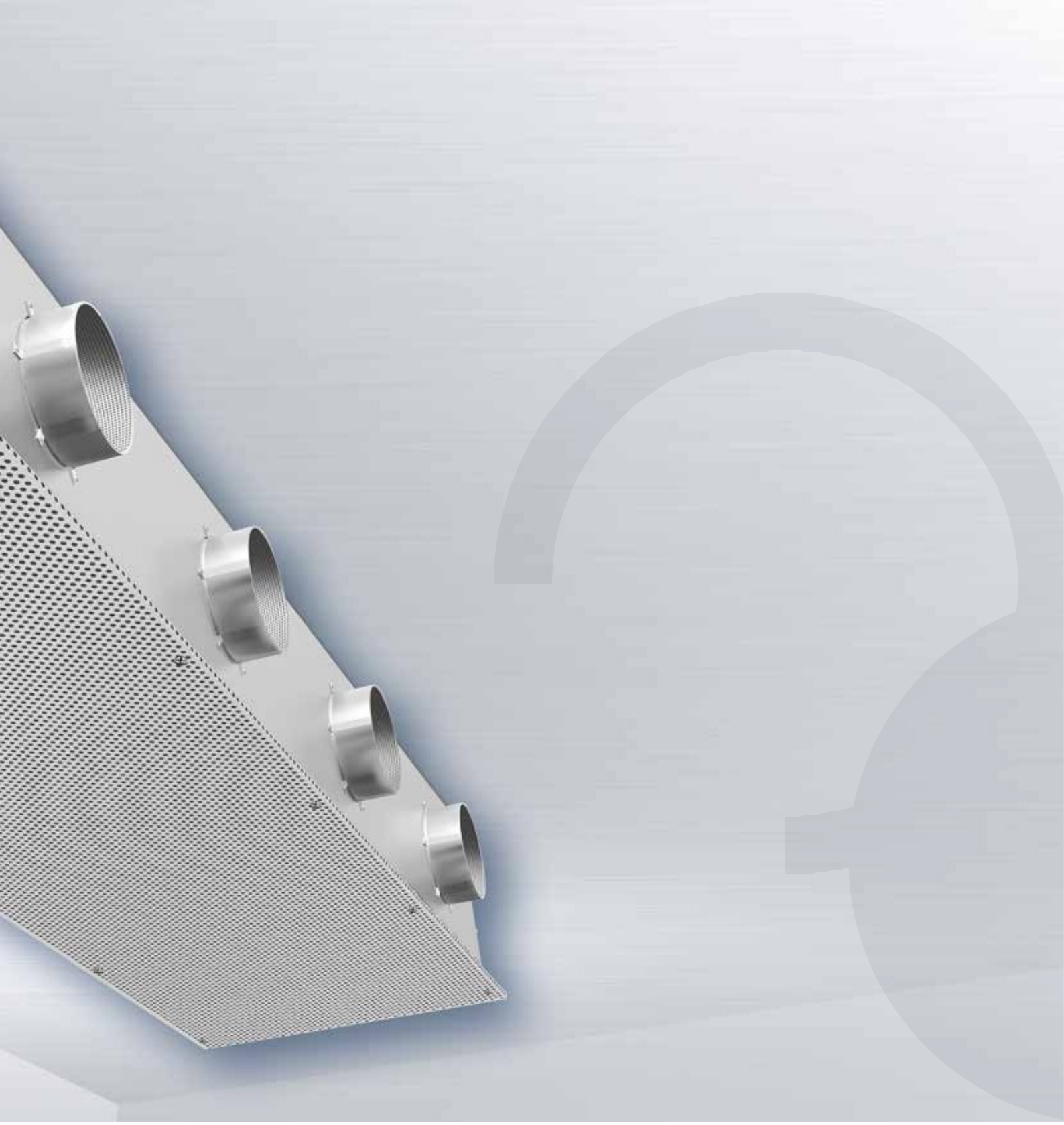
TECHNICAL HIGHLIGHTS

- Installation system with mercury-free REVEN® Longlife UV tubes for generating ozone-containing radiation with a wavelength of 185 nm. Tube material made of synthetic quartz. Special inner coating for lasting transparency and to prevent contamination and discolouration.
- Exhaust air treatment using UV-C and VUV radiation. UV-C radiation with a wavelength of 254 nm for the destruction of microorganisms (bacteria, fungi and viruses). Vacuum ultraviolet radiation (VUV) with a wavelength of 185 nm for ozone generation for the oxidation of odorous substances in the air.
- Safety and function monitoring without mechanical components, using electronic differential pressure monitoring. Evaluation in control cabinet with integrated monitoring modules.
- Fully integrated system, installation during the manufacture of the detection and duct installation systems. No retrofitting, as with other manufacturers.
- Sustainable air purification concept through the use of efficient separators and scientifically proven technologies.
- Installation components 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

Note:
When positioning the system, please note that a minimum of 2 seconds must elapse between the detection system and the exhaust air outlet.

REVEN® ECOJET series

Supply air source outlet for regulating the air balance when using capture hoods



REVENO
SCHAKO Group

REVEN® ECOJET series

APPLICATION

Supplementary regulation of air flow when using collection and duct installation systems in food production or commercial kitchens.

Suitable for point integration into an existing ceiling.

TECHNICAL HIGHLIGHTS

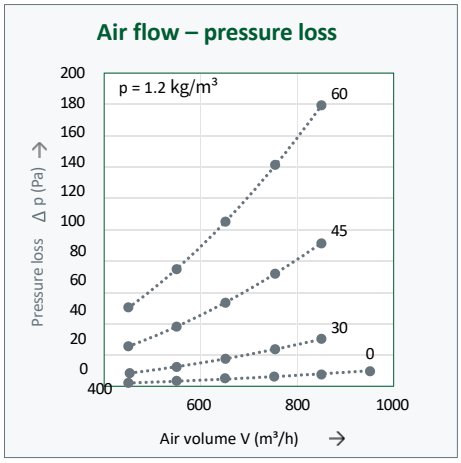
- Supply air diffuser with housing, side connection and control unit.
- Perforated plates available in stainless steel or powder-coated aluminium.
- Effectiveness and function proven by CFD flow analysis.
- Flow-optimised design, suitable for food production and commercial kitchens. Deep penetration of fresh air into the floor area of the work space.
- Minimal pressure loss in the unit.
- Very quiet even at maximum output.
- Lower perforated plate cassette removable for adjustment work.
- Lifetime guarantee on the rust resistance of the housing.
- Perforated sheet metal cassettes and all materials used in production are 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.

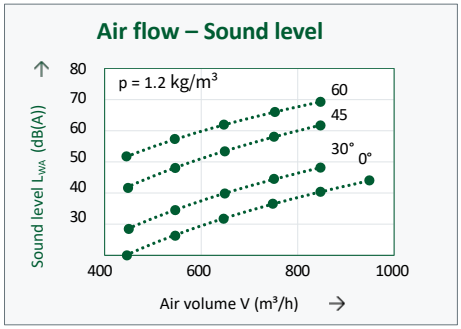
ACCESSORIES

- Special support brackets according to customer requirements for optimal connection to the on-site ceiling.

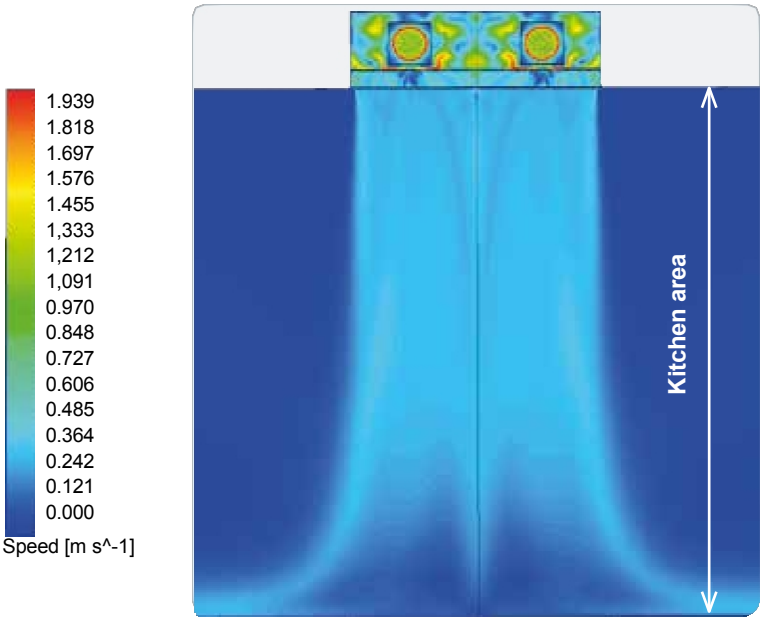
SCIENTIFIC TESTED AND OPTIMISED

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

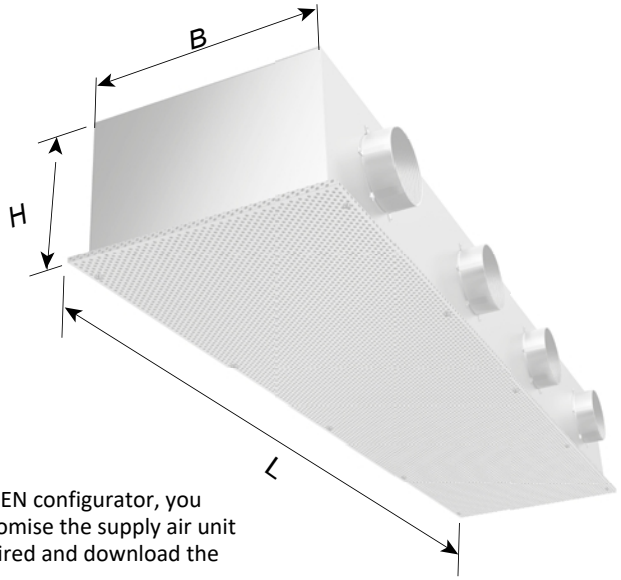




Specifications for different positions of the control unit (0°, 30°, 45° and 60°), Device (1500 x 500 mm).



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



With the REVEN configurator, you can also customise the supply air unit online as desired and download the BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=8

TECHNICAL DATA – REVEN® ECOJET SERIES

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Heigh t [mm]	Supply air connection [mm]	
250	50	500 / 625	290	1 x Ø 150	7
500	1000	500 / 625	290	2 x Ø 150	14
750	1500	500 / 625	290	3 x Ø 150	21
1000	2000	500 / 625	290	4 x Ø 150	28

Ventilation ceilings

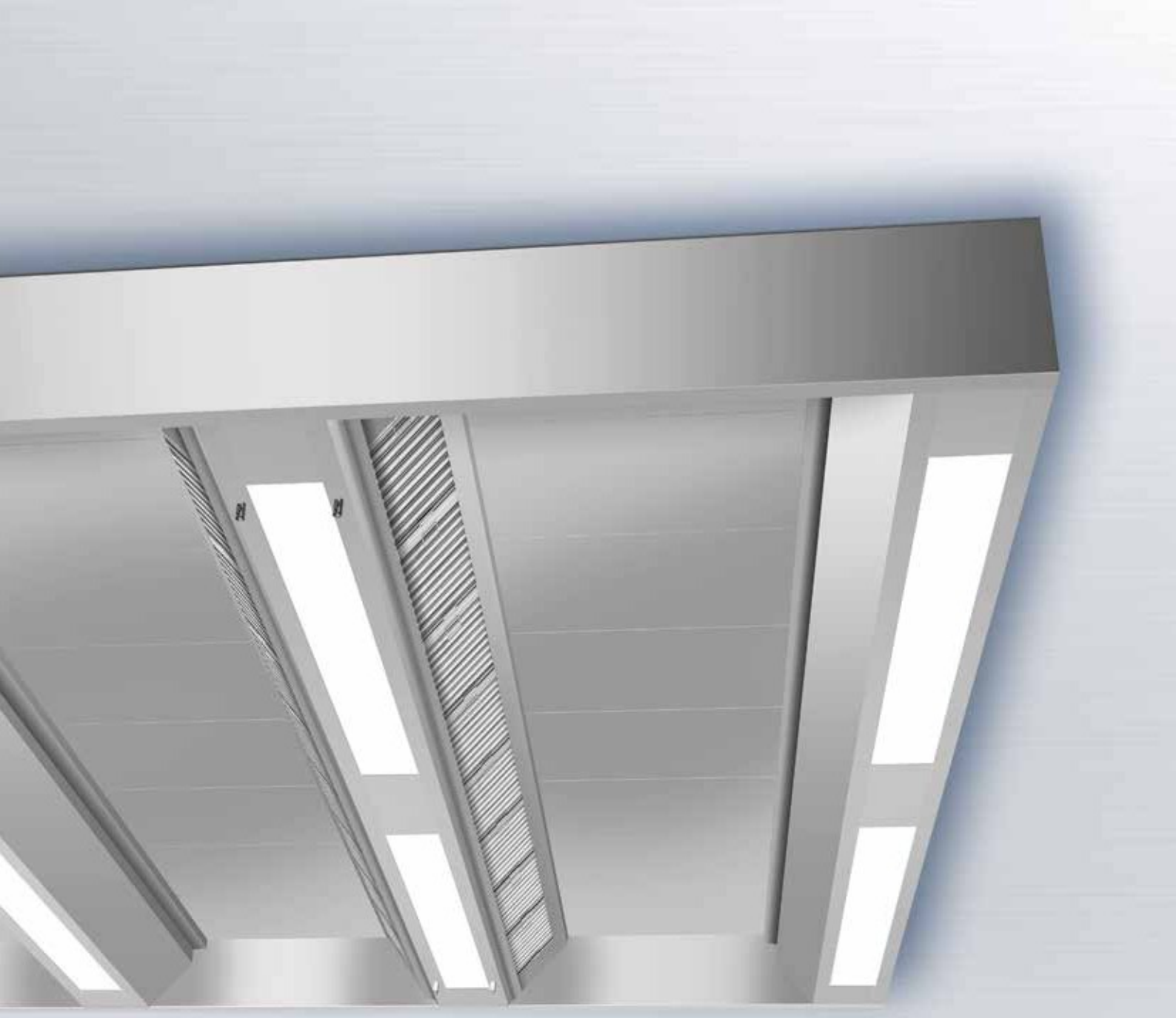
Air purifiers for ceiling installation across multiple rooms

REVENO
SCHAKO Group

X-CYCLONE® DVN series

Ceiling module with REVEN® induction system

Wall and centre body



Also available with REVEN® efficiency induction system!*

REVEN
SCHAKO Group

(Technologies → for regulation and control)

APPLICATION

Supply air induction ceiling module for cross-room collection and purification of exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

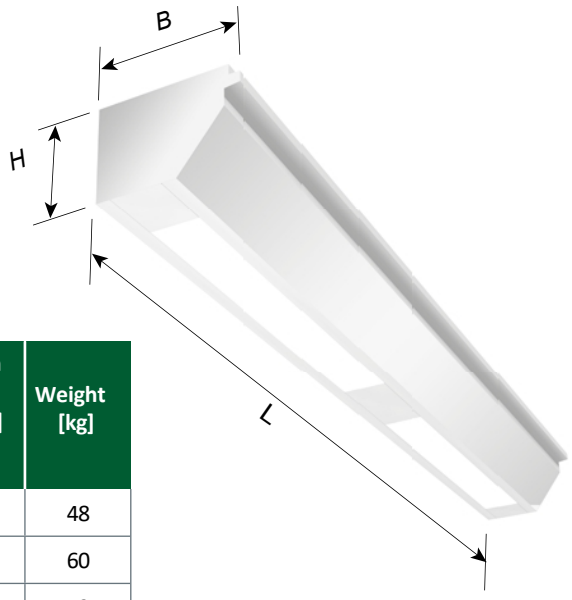
TECHNICAL HIGHLIGHTS

- New, globally patented REVEN® induction nozzle for more efficient collection and purification of exhaust air.
- Effectiveness and function of the ceiling module's induction nozzle proven by CFD flow analysis.
- Integrated induction system to prevent draughts and comply with maximum permissible supply air flows.
- More efficient separation through induction-induced condensation of vapour molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Sustainable air purification concept through the use of scientifically proven technologies.
- Lifetime guarantee on the rust resistance of the ceiling module.

* Optionally available with advanced REVEN® efficiency induction system – for improved extraction of exhaust air without direct injection of supply air.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.

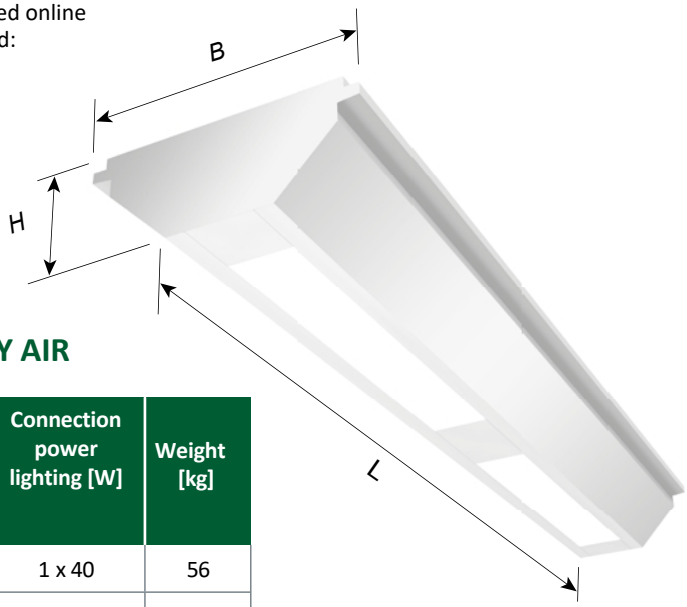


TECHNICAL DATA – REVEN® DVN-W SUPPLY AIR

Air volume [m³/h]	Dimensions				Connection power lighting [W]	Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Supply air flaps [mm]		
480	1500	520	360	1 x 500 x 250	1 x 40	48
640	2000	520	360	1 x 500 x 250	1 x 50	60
800	2500	520	360	1 x 500 x 250	1 x 50	72
960	3000	520	360	2 x 500 x 250	2 x 40	90
1120	3500	520	360	2 x 500 x 250	2 x 40	102
1280	4000	520	360	2 x 500 x 250	2 x 50	120

Ceiling module DVN-W and DVN-M Supply air Can be customised online using the REVEN Configurator and BIM data can be downloaded:

https://bim.reven.de/#/configurator?SelectedElementID=10



TECHNICAL DATA – REVEN® DVN-M SUPPLY AIR

Air volume [m³/h]	Dimensions				Connection power lighting [W]	Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Supply air flaps [mm]		
960	1500	750	360	1 x 500 x 250	1 x 40	56
1280	2000	750	360	1 x 500 x 250	1 x 50	70
1600	2500	750	360	1 x 500 x 250	1 x 50	84
1920	3000	750	360	2 x 500 x 250	2 x 40	105
2240	3500	750	360	2 x 500 x 250	2 x 40	120
2560	4000	750	360	2 x 500 x 250	2 x 50	140

APPLICATION

Exhaust air induction ceiling module for cross-room collection and purification of exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

TECHNICAL HIGHLIGHTS

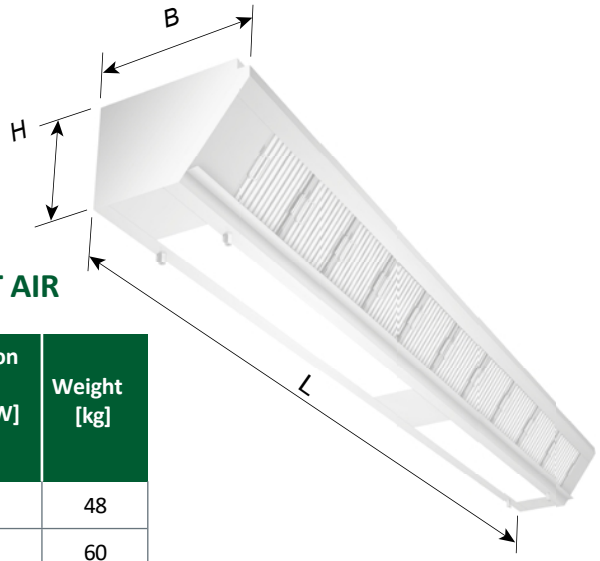
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the ceiling module separators proven by CFD flow analysis.
- More efficient separation through induction-induced condensation of steam molecules in the separator.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Sustainable air purification concept through the use of scientifically based technologies.
- Lifetime warranty on the X-CYCLONE® aerosol separators and the rust resistance of the ceiling module.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring,

Control and regulation of the exhaust air volume flow.

- REVEN® UV system for the reduction of odours and the destruction of microorganisms.

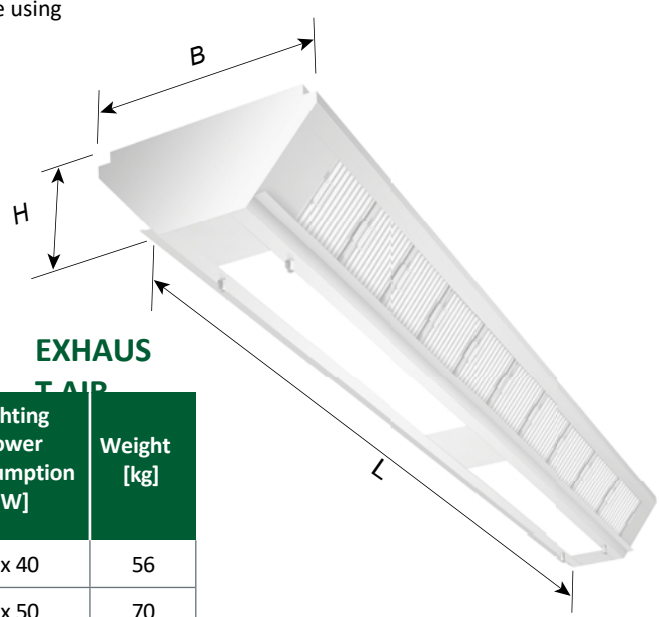


TECHNICAL DATA – X-CYCLONE® DVN-W EXHAUST AIR

Air volume [m³/h]	Dimensions				Connection power lighting [W]	Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]		
960	1500	520	360	1 x 510 x 260	1 x 40	48
1280	2000	520	360	1 x 510 x 260	1 x 50	60
1600	2500	520	360	1 x 510 x 260	1 x 50	72
1920	3000	520	360	2 x 510 x 260	2 x 40	90
2240	3500	520	360	2 x 510 x 260	2 x 40	102
2560	4000	520	360	2 x 510 x 260	2 x 50	120

Customise the DVN-W and DVN-M exhaust air ceiling modules online using the REVEN configurator and download BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=9



TECHNICAL DATA – X-CYCLONE® DVN-M EXHAUST AIR

Air volume [m³/h]	Dimensions				Lighting power consumption [W]	Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]		
1920	1500	750	360	1 x 510 x 260	1 x 40	56
2560	2000	750	360	1 x 510 x 260	1 x 50	70
3200	2500	750	360	1 x 510 x 260	1 x 50	84
3840	3000	750	360	2 x 510 x 260	2 x 40	105
4480	3500	750	360	2 x 510 x 260	2 x 40	120
5120	4000	750	360	2 x 510 x 260	2 x 50	140

X-CYCLONE® DR series

Ceiling module with REVEX® spray system Wall and centre body

REVENO
SCHAKO Group

X-CYCLONE® DR series exhaust air

www.reven.de (Technologies → for disinfection and cleaning)

APPLICATION

REVEX® ceiling module for room-wide collection and purification of exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

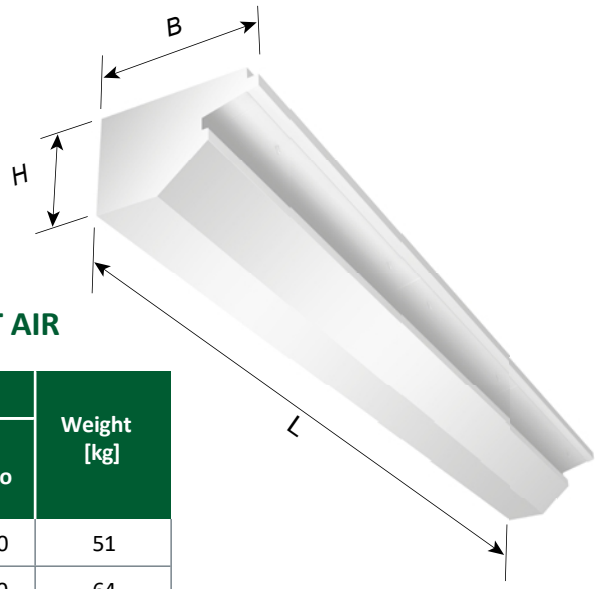
TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Integrated, patented REVEX® spray system for fully automatic, double-sided cleaning and disinfection of the aerosol separators.
- Effectiveness and function of the ceiling module separators proven by CFD flow analysis.
- Sustainable air purification concept through the use of scientifically proven technologies.
- Lifetime warranty on the X-CYCLONE® aerosol separators and the rust resistance of the ceiling module.

ACCESSORIES

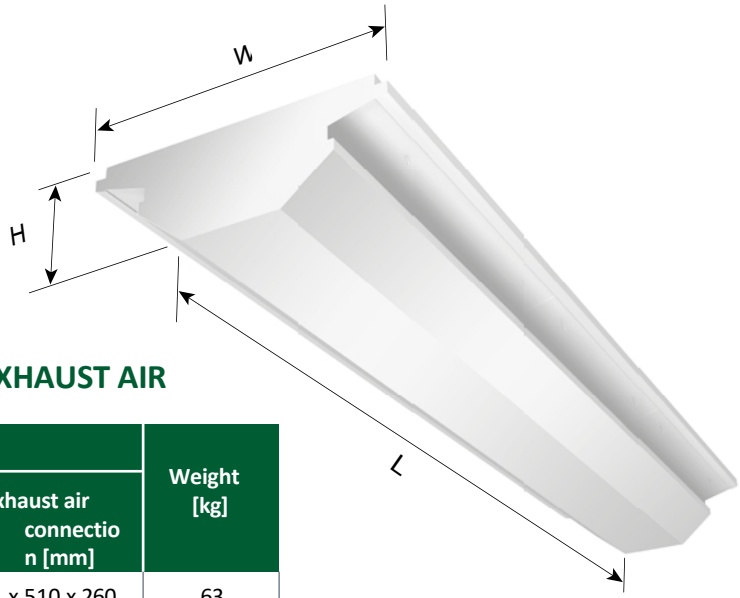
- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.

- REVEN® UV system for the reduction of odours and the destruction of microorganisms.



TECHNICAL DATA – X-CYCLONE® DR-W EXHAUST AIR

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]	
960	1500	570	360	1 x 510 x 260	51
1280	2000	570	360	2 x 510 x 260	64
1600	2500	570	360	2 x 510 x 260	77
1920	3000	570	360	2 x 510 x 260	96
2240	3500	570	360	2 x 510 x 260	109
2560	4000	570	360	3 x 510 x 260	128



TECHNICAL DATA – X-CYCLONE® DR-M EXHAUST AIR

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]	
1920	1500	1044	360	1 x 510 x 260	63
2560	2000	1044	360	2 x 510 x 260	78
3200	2500	1044	360	2 x 510 x 260	94
3840	3000	1044	360	2 x 510 x 260	117
4480	3500	1044	360	2 x 510 x 260	133
5120	4000	1044	360	3 x 510 x 260	150

X-CYCLONE® DLD series

Ceiling module with X-CYCLONE® air purification system

Wall and centre body

REVENO
SCHAKO Group

APPLICATION

Exhaust air ceiling module for room-wide collection and purification of exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mist or steam vapour.

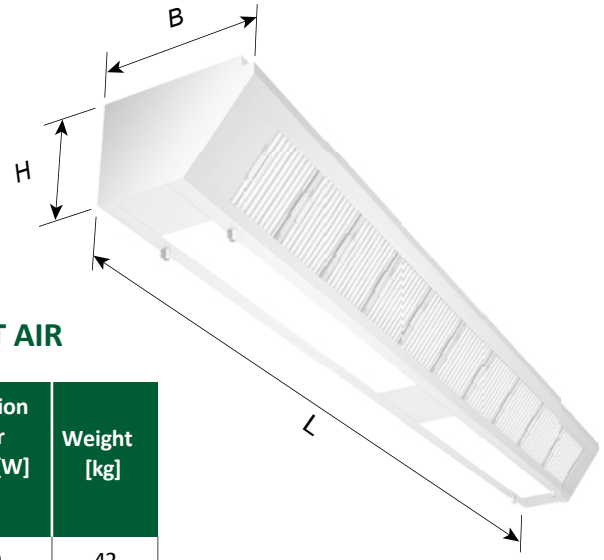
TECHNICAL HIGHLIGHTS

- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the ceiling module separators proven by CFD flow analysis.
- Modern integrated LED lighting, reducing power consumption by up to 50% compared to conventional T5 and T8 luminaires.
- Sustainable air purification concept through the use of scientifically proven technologies.
- Lifetime warranty on the X-CYCLONE® aerosol separators and the rust resistance of the ceiling module.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.

- REVEN® UV system for the reduction of odours and the destruction of microorganisms.

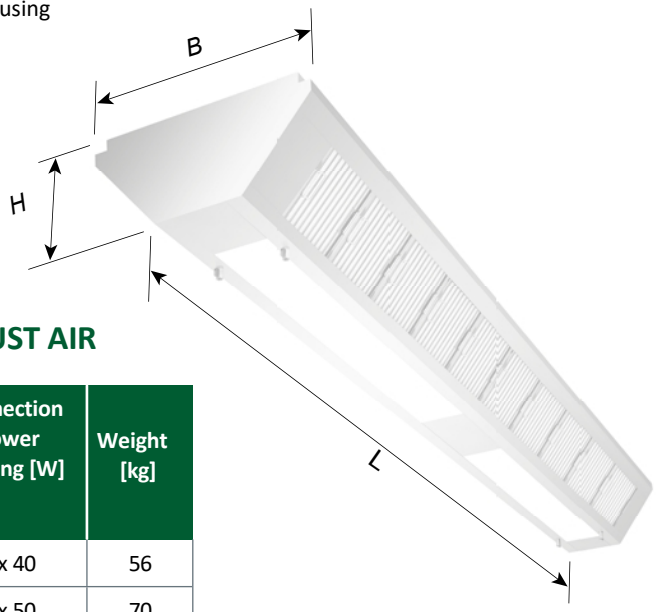


TECHNICAL DATA – X-CYCLONE® DLD-W EXHAUST AIR

Air volume [m³/h]	Dimensions				Connection power lighting [W]	Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]		
960	1500	520	360	1 x 510 x 260	1 x 40	42
1280	2000	520	360	1 x 510 x 260	1 x 50	60
1600	2500	520	360	1 x 510 x 260	1 x 50	78
1920	3000	520	360	2 x 510 x 260	2 x 40	90
2240	3500	520	360	2 x 510 x 260	2 x 40	102
2560	4000	520	360	2 x 510 x 260	2 x 50	120

Customise the DLD-W and DLD-M exhaust air ceiling modules online using the REVEN Configurator and download BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=11



TECHNICAL DATA – X-CYCLONE® DLD-M EXHAUST AIR

Air volume [m³/h]	Dimensions				Connection power lighting [W]	Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]		
1920	1500	750	360	1 x 510 x 260	1 x 40	56
2560	2000	750	360	1 x 510 x 260	1 x 50	70
3200	2500	750	360	1 x 510 x 260	1 x 50	84
3840	3000	750	360	2 x 510 x 260	2 x 40	105
4480	3500	750	360	2 x 510 x 260	2 x 40	120
5120	4000	750	360	2 x 510 x 260	2 x 50	140

X-CYCLONE® DGH series

Ceiling module with X-CYCLONE® air purification system without lighting Wall unit

REVENO
SCHAKO Group

AREA OF APPLICATION

Compact exhaust air ceiling module for cross-room collection and purification of exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens. Separation of water- and oil-containing aerosols, such as spray mists or steam vapours.

TECHNICAL HIGHLIGHTS

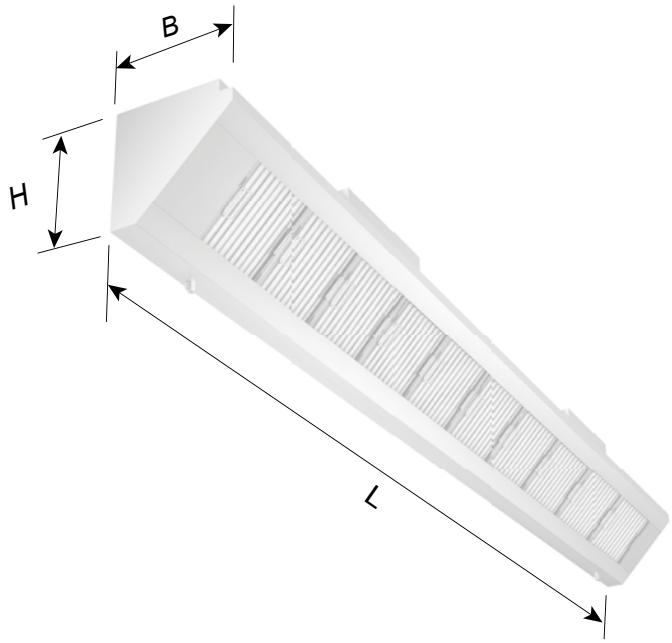
- Patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the ceiling module separators proven by CFD flow analysis.
- Sustainable air purification concept through the use of scientifically based technologies.
- Lifetime warranty on the X-CYCLONE® aerosol separators and the rust resistance of the ceiling module.

ACCESSORIES

- REVEN® energy-saving sensors for fully automatic monitoring, control and regulation of the exhaust air volume flow.
- REVEN® UV system for the reduction of odorous substances and the destruction of microorganisms.

Further information

www.reven.de (Technologies → for regulation and control)



TECHNICAL DATA – X-CYCLONE® DGH-W EXHAUST AIR

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [mm]	
960	1500	360	360	1 x 510 x 260	24
1280	2000	360	360	1 x 510 x 260	30
1600	2500	360	360	1 x 510 x 260	39
1920	3000	360	360	2 x 510 x 260	44
2240	3500	360	360	2 x 510 x 260	53
2560	4000	360	360	2 x 510 x 260	60

Customise the DGH-W exhaust air ceiling module online using the REVEN configurator and download BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=12

REVEN® DFD and DSD series

Ceiling tiles, flame retardant and sound absorbing

REVENO
SCHAKO Group

APPLICATION

Flame-retardant and waterproof ceiling cassette system for protecting the building structure and collecting exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens across multiple rooms.

TECHNICAL HIGHLIGHTS

- Flame-retardant cassette ceiling.
- Easy cassette removal without tools.
- Circumferential wall connection profile.
- Ceiling tiles and all materials used in production are 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Also available in aluminium as an option.
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the ceiling cassettes.

Customise your ceiling cassette online using the REVEN configurator and download BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=13

AREA OF APPLICATION

Sound-absorbing and splash-proof ceiling cassette system for protecting the building structure and collecting exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens across multiple rooms.

TECHNICAL HIGHLIGHTS

- Sound-absorbing cassette ceiling with sound emission protection tested by an accredited institute.
- Integrated sound insulation panels with water- and vapour-proof foil covering, wall thickness less than 50 micrometres to increase sound permeability.
- Sound insulation panels meet the requirements of fire protection class A thanks to special mineral wool.
- Easy cassette removal without tools.
- Circumferential wall connection profile.
- Ceiling cassettes and all materials used in production are 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Also available in aluminium as an option.
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the ceiling cassettes.

Customise your ceiling cassette online using the REVEN configurator and download BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=13

X-CYCLONE® DAK and REVEN® DQA series

Exhaust air filter box and supply air source outlet

REVENO
SCHAKO Group

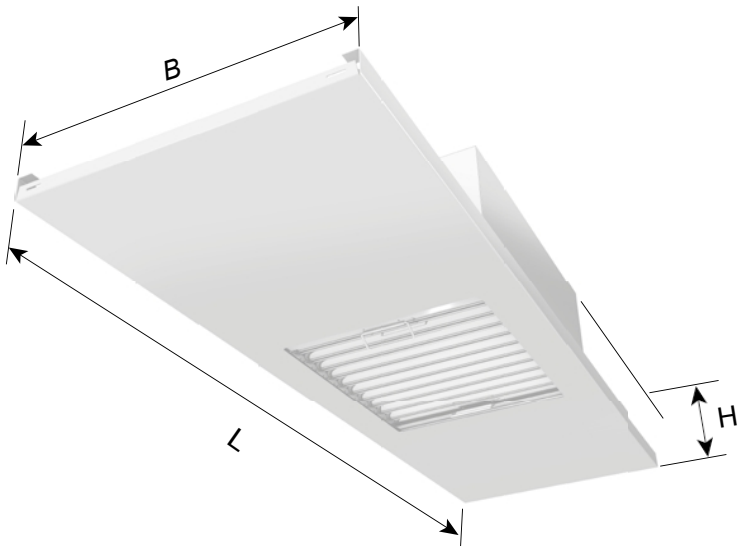
APPLICATION

Exhaust air filter box for supplementary collection and cleaning of exhaust air from production facilities in the food industry and cooking appliances in commercial kitchens. Operates in combination with REVEN® exhaust air ceiling modules.

For selective collection and cleaning of low-intensity steam vapours and warm air.

TECHNICAL HIGHLIGHTS

- Exhaust air filter box with integrated, patented X-CYCLONE® high-performance separation system with a separation efficiency of up to 99.9999%.
- Effectiveness and function of the filter box separators proven by CFD flow analysis.
- Sustainable air purification concept through the use of scientifically based technologies.
- Filter box and all materials used in production are 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichenverband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the filter box.



TECHNICAL DATA – X-CYCLONE® DAK SERIES

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Height [mm]	Exhaust air connection [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

Customise the exhaust air filter box online using the REVEN configurator and download BIM data:

https://bim.reven.de/#/configurator?SelectedElementID=14

APPLICATION

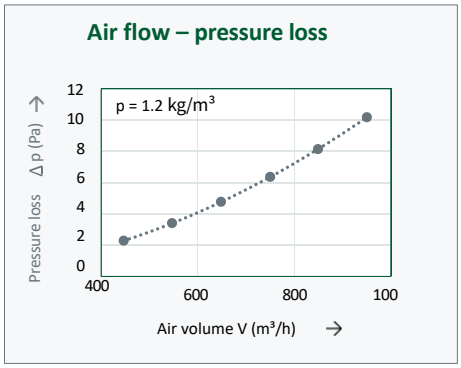
Supply air source outlet for supplementary regulation of the air balance in food production and commercial kitchens. Operates in combination with REVEN® exhaust air ceiling modules.

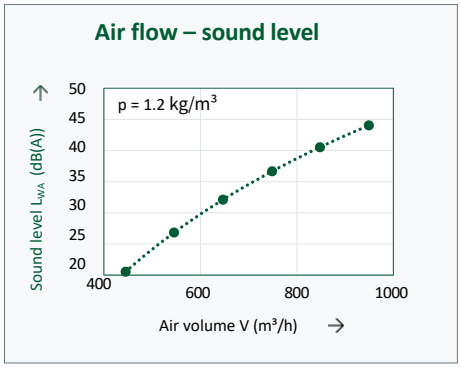
TECHNICAL HIGHLIGHTS

- Housing box with integrated flow rectifier for draught-free fresh air supply.
- Perforated plates available in stainless steel or powder-coated aluminium.
- Effectiveness and function of the supply air units proven by CFD flow analysis.
- Flow-optimised design, suitable for food production and commercial kitchens. Deep penetration of fresh air into the floor area of the workroom.
- Minimal pressure loss in the unit.
- Whisper-quiet even at maximum power.
- Perforated sheet metal cassette and all materials used in production are 100% rust-free in accordance with the requirements of the German Stainless Steel Association (Warenzeichen-verband Edelstahl Rostfrei e.V.).
- Designed, engineered and manufactured in Germany.
- Lifetime guarantee on the rust resistance of the housing.

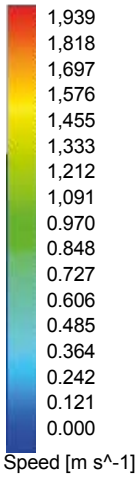
SCIENTIFICALLY TESTED AND OPTIMISED

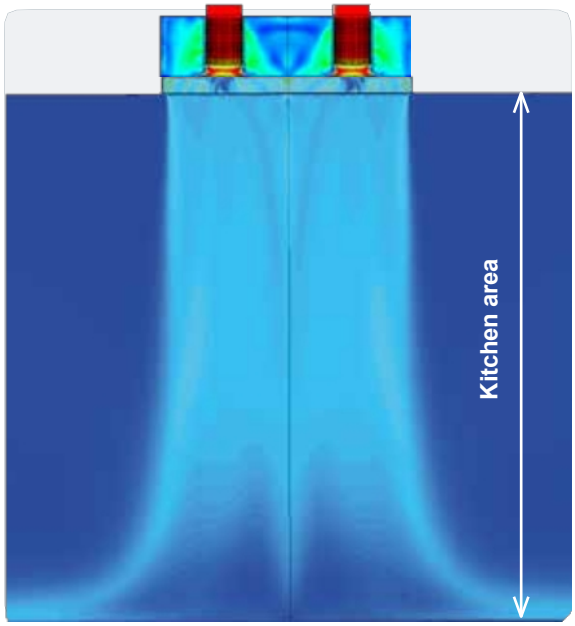
Rentschler has used REVEN CFD technology to optimise the flow behaviour of supply air units (see figure on the right).
The pressure loss in the supply air unit and the associated noise generation in relation to the volume of air blown in were also tested (see fig. below).



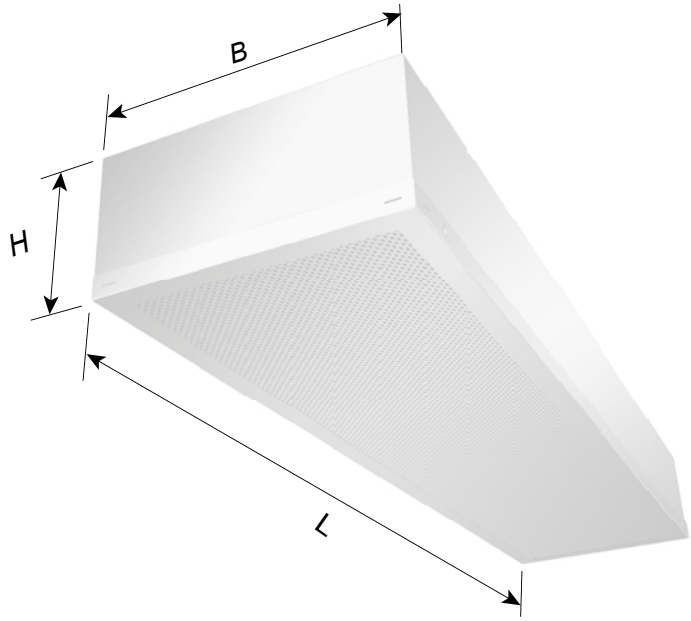


Pressure loss and sound level with increasing air volume, device (1500 x 500 mm).





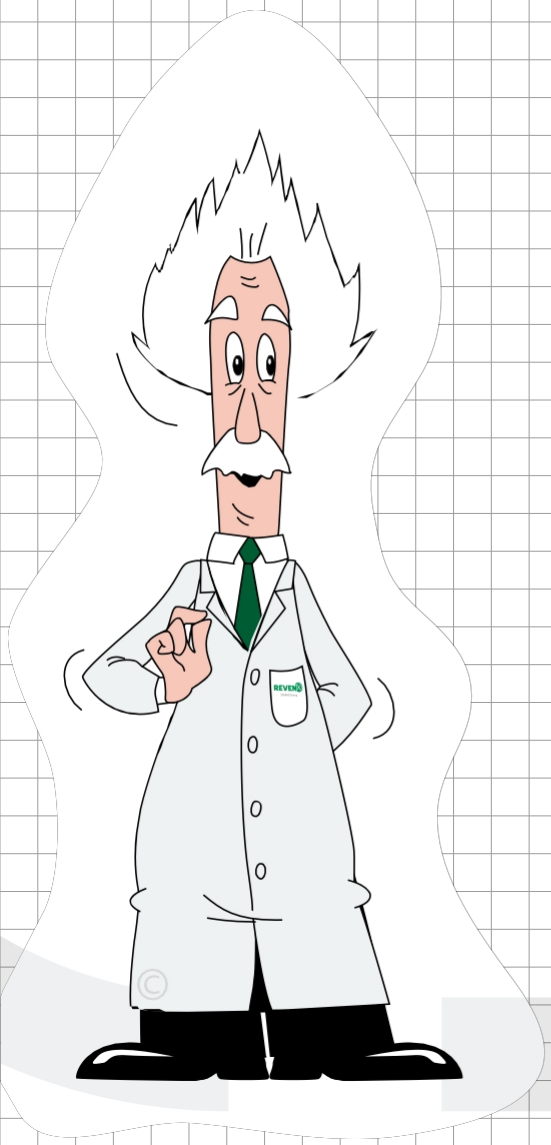
Vertical cross-section of the REVEN® DQA including the kitchen area below: The CFD analysis shows an optimal, almost vertical air flow from the source outlet to the kitchen floor.



TECHNICAL DATA – REVEN® DQA SERIES

Air volume [m³/h]	Dimensions				Weight [kg]
	Length [mm]	Width [mm]	Heigh t [mm]	Connection DN [mm]	
250	500	50	250	1 x 150	7
500	1000	500	250	2 x 150	14
750	1500	500	250	3 x 150	21
100	200	500	250	4 x 150	28

Customise the supply air diffuser online using the REVEN Configurator and download BIM data:
https://bim.reven.de/#/configurator?SelectedElementID=15



Notes

Air cleaners for mechanical processing and the food industry

Air cleaners for mechanical processing and the food industry

Air purifiers for the manufacturing industry and food industry

空气净化器用于工业加工及食品工业

Purificadores de aire para las industrias transformadora y alimentaria

Air purifiers for the processing and food industries Air purifiers for the manufacturing

and food industries

Air purifiers for the processing and food industries

Air purifiers for the processing and food industries

Air purifiers for the manufacturing and food industries

Air filters for mechanical production and the food industry Air purifiers

for the manufacturing and food industries

Subject to technical changes and errors. Version 08.2V.12M.2022Y

REVEN
SCHAKO Group

Rentschler REVEN GmbH Ludwigstr. 16–18
74372 Sersheim · Germany
Telephone: +49 7042 373-0
www.reven.de