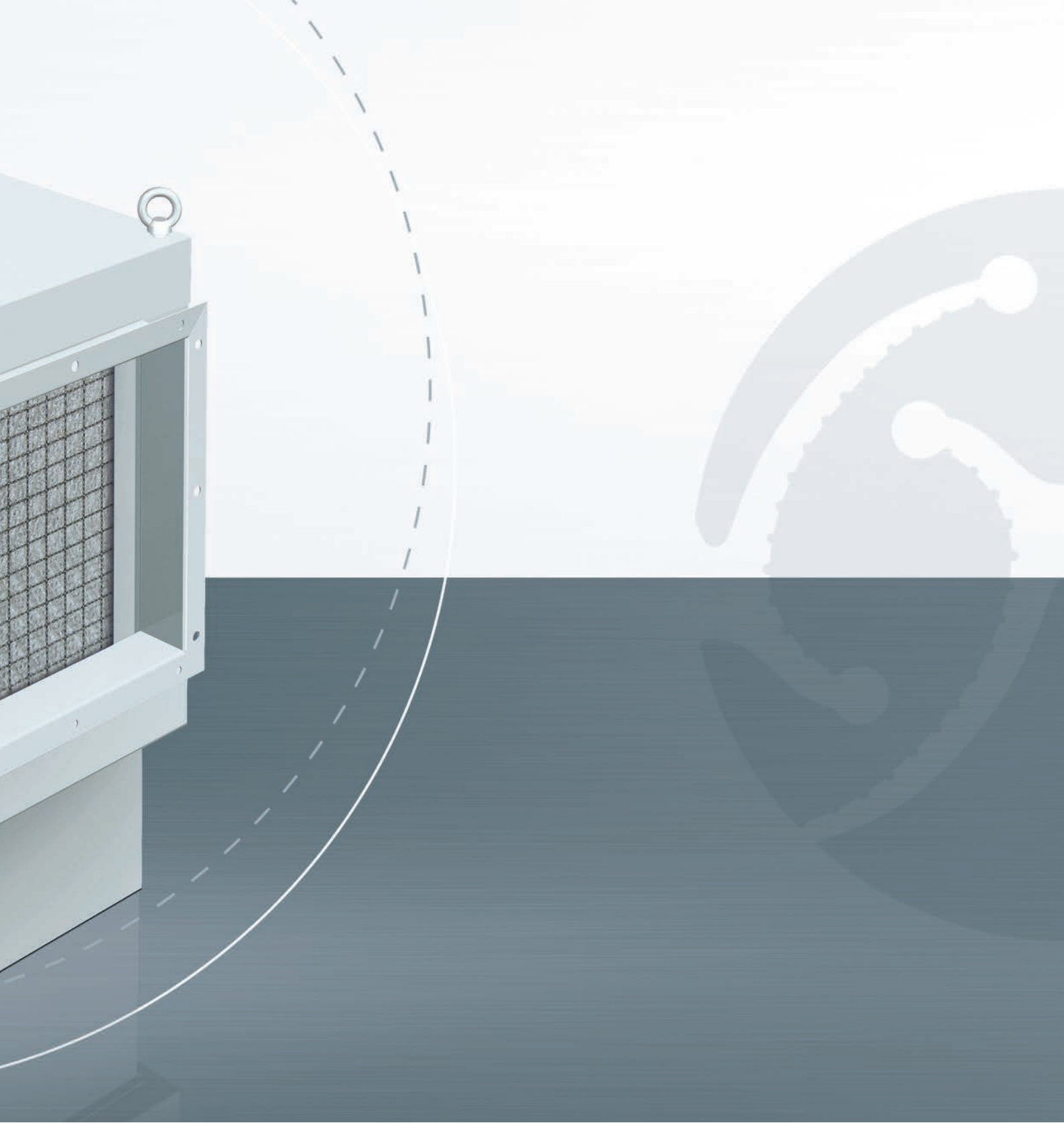


X-CYCLONE® RKE Series

Duct air cleaners for oil-based aerosols





RANGE OF APPLICATION

Cleaning of the exhaust air from processing machines, coating facilities, food-production plants and cooking appliances in commercial kitchens. Separation of oil-based aerosols such as cooling lubricants or spray and oil mists.

Suitable for installation in horizontal exhaust ducts.



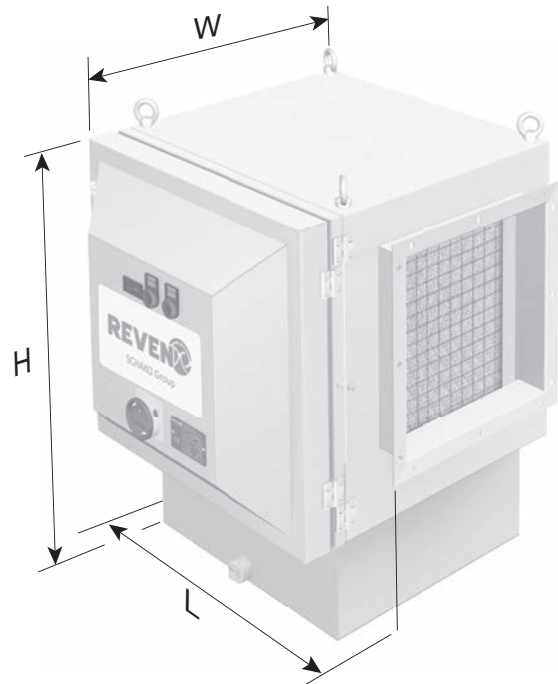
TECHNICAL HIGHLIGHTS

- Combination of the patented high-performance X-CYCLONE® separating system and an electrostatic precipitator with an efficiency rate of up to 99.9999 %.
- Odour reduction in the exhaust air by means of high-voltage plasma.
- Agglomeration system made of stainless steel, suitable for the removal of oil-based PM_{2.5}.
- Sustainable air-cleaning concept thanks to the use of cleanable separators.
- Efficiency and function of the air cleaner proven by CFD flow analysis.
- Fire protection in the exhaust duct due to flame-arresting X-CYCLONE® basic elements, tested in accordance with UL 1046, ULC-S 649, JFEA, DIN 18869-5 and DIN EN 16282.
- Enclosure 100 % rustproof in accordance with the requirements of the German trademark association for stainless steel Warenzeichenverband Edelstahl Rostfrei e.V.
- Effective protection of the exhaust duct against contamination.
- Designed, constructed and produced in Germany.
- Lifetime guarantee on the X-CYCLONE® basic separator elements and the corrosion resistance of the enclosure.



ACCESSORIES

- Agglomeration system made of glass-fibre fabric, suitable for the removal of oil-based PM_{1.0}.
- Differential pressure indicator to monitor the duct air cleaner.
- Adapters and reducers for connection to the exhaust ducts.
- Siphons, drain lines, connecting sleeves and shut-off valves for the separated liquids.



TECHNICAL DATA – X-CYCLONE® RKE SERIES

Type of device	Extraction volume [m ³ /h]	Electrical data			Dimensions				Pressure drop, total [Pa]	Weight [kg]
		Voltage [V]	Current [A]	Power [W]	Length [mm]	Width [mm]	Height [mm]	Duct connection [mm]		
		50/60 Hz	50/60 Hz	50/60 Hz						
RKE-1	1200	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

* Attention: The specified pressure drops are based on the assumption of an unobstructed air inflow into the X-CYCLONE® duct system and out of it. The air intake and outlet of the duct must be three times, better five times, as long as the diameter of the connection to the X-CYCLONE® duct system.