



X-CYCLONE® WM Series

Compact mobile air cleaners for smoke extraction during welding and laser-machining processes

THE BENEFITS OF X-CYCLONE® WELDING SMOKE EXTRACTION DEVICES

- The sturdy housing made of corrosion-proof stainless steel offers considerably higher stability and durability than less expensive versions made of steel sheet or plastic.
- The extraction arm with integrated mechanics and the collection nozzle comply with industry's state-of-the-art requirements.
- The particulate air filter is fitted with a high-grade glass fibre medium and offers a large filter surface. It is distinguished by a considerably longer service life than traditional welding smoke filters.
- All filters are fitted with robust stainless steel frames and provide much more stability than lower priced products with paper, wood or plastic frames.
- The device reliably resists flame and spark penetration in compliance with international standards. The spark- and flame-arresting capability has been proven in tests. The system offers much more safety than non-certified baffle plate separators.
- The medium-pressure fan is encapsulated in a flow-dynamic optimized housing of cast aluminium. There are no exposed electrical components or motor parts.
- The air-handling capacities specified in the documentation are achieved over the entire service life.
- The intelligent monitoring system with electronic flow sensors ensures permanent functional monitoring of extraction.





RANGE OF APPLICATION

Cleaning of air extracted from welding work on high-alloy steels in compliance with welding smoke class W3. Approved for W3 and tested by the German Institute for Occupational Safety and Health IFA in accordance with the GS-BIA-M03 standard. Also suitable for cutting, marking and laser welding in the electrical and metal-processing industries.

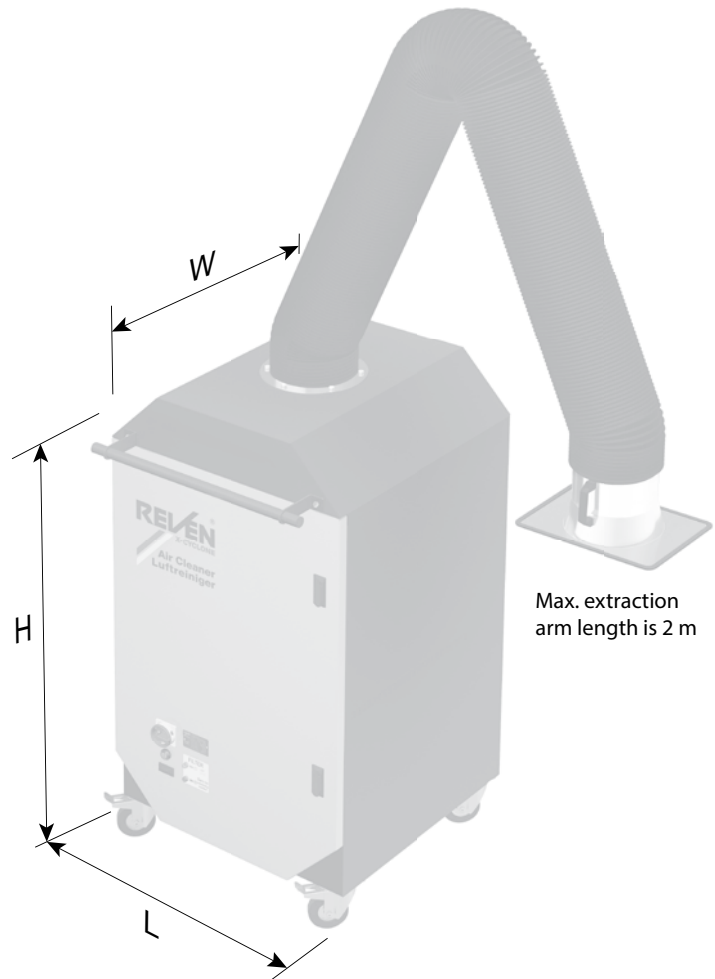
TECHNICAL HIGHLIGHTS

- Air-handling capacity of 2,000 m³/h; the extraction arm with integrated mechanics has a diameter of 200 mm and a maximum length of 2 m. Two extraction arms with a diameter of 160 mm each are optionally available.
- Long maintenance intervals due to REVEN® LTH (Long-Term HEPA) particulate air filters with a filter surface of 30 m².
- Long-life REVEN® LT HEPA filters with a service life of up to three years.*
- Patented high-performance X-CYCLONE® separating system with an efficiency rate of up to 99.9999 %.
- X-CYCLONE® basic elements with flame- and spark-arresting capability, tested in accordance with UL 1046, ULC-S 649, JFEA, DIN 18869-5 and DIN EN 16282.
- Sustainable air-cleaning concept thanks to the use of cleanable separators and filters with an extended service life.
- Fan impeller and electric motor encapsulated in a separate, flow-optimized pressure casing; energy-efficient eco-design in accordance with the European Directive on Energy-related Products (ErP). Energy-saving potential of up to Euro 2,000 per year compared to traditional air cleaners.



* Depends on the air load to be handled and the daily operating periods (one or more shifts).

- Efficiency and function of the air cleaner proven by CFD flow analysis.
- Housing 100 % rustproof in accordance with the requirements of the German trademark association for stainless steel Warenzeichenverband Edelstahl Rostfrei e.V.
- Intelligent functional display.
- Designed, constructed and produced in Germany.
- Lifetime guarantee on the X-CYCLONE® basic separator elements and the corrosion resistance of the housing.



ACCESSORIES

- Also available with cartridge filters and an automatic cleaning function.
- For extraction on laser-processing equipment, optionally available with an extraction hose with a diameter of 100 mm and an explosion-proof design.

TECHNICAL DATA – X-CYCLONE® WM SERIES

Type of device	Number of extraction arms	Airflow rate [m³/h]	Electrical data					
			Voltage [V]		Current [A]		Power [kW]	
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
WM-1	1	2,000	3~400	3~230	4.35	9.2	2.2	2.64
WM-2	2	2,000	3~400	3~230	4.35	9.2	2.2	2.64

Type of device	Number of extraction arms	Dimensions					Weight [kg]
		Device			Extraction arm		
		Length [mm]	Width [mm]	Height [mm]	Max. length [mm]	Diameter [mm]	
WM-1	1	720	700	1,360	2,000	200	187
WM-2	2	720	700	1,360	2,000	160	197