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PRODUCT CATALOG

2025

POLLUTANT SUCTION SYSTEMS

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OMAR AIR FILTRATION SYSTEMS

Exhaust Hoods (pollutant suction) | OMAR® EH

OMAR suction hoods are advanced, precision-engineered solutions designed for capturing and extracting airborne contaminants such as dust, fumes, and particulate matter directly at the source. Built from durable, corrosion-resistant materials (such as galvanised metal sheet, painted iron, Corten, AISI 304/316 or plastic materials), they are ideal for demanding applications across industries like recycling, foundries, smelters, cement production, and heavy manufacturing. Their optimised aerodynamic design ensures uniform suction, reducing turbulence and energy consumption in filtration systems. Available in configurations such as standard, double hoods with inner hood liners, and motorised or pneumatic extendible hoods, they are customisable to specific requirements and integrate seamlessly with OMAR's centralised filtration units or third-party systems. These hoods provide robust solutions for air quality management in complex and high-emission industrial environments.

Heavy-Duty and Die-Casting Exhaust Hoods | OMAR® HDH

OMAR heavy-duty suction hoods are specifically designed for challenging industrial applications requiring the efficient capture of high-temperature fumes, dust, and particulate matter. These hoods are engineered to withstand extreme operating conditions, making them ideal for industries such as die casting, foundries, steel production, and metalworking. Constructed with reinforced, heat-resistant materials and optimised for durability, they are capable of managing intense emissions generated during processes like die-casting and molten metal handling.

Available in standard heavy-duty and die-casting-specific designs, they feature advanced airflow dynamics for uniform pollutant capture and integrate seamlessly with OMAR's centralised filtration systems or other extraction setups. Exclusively represented in Australia by Hard Recycle, these hoods deliver customisable solutions for high-emission environments, ensuring compliance with air quality and safety standards.

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Special Exhaust Hoods for Smelting Furnaces | OMAR® SEH

OMAR's special suction hoods are engineered for high-performance fume and dust extraction in extreme industrial environments, such as smelters, refineries, and metallurgical plants. Designed to handle high-temperature and heavy particulate loads, these hoods are constructed with reinforced, heat-resistant materials for durability and reliability in harsh conditions.

Available in customised configurations tailored for specific smelting operations, these hoods feature optimised airflow designs to ensure efficient capture of pollutants directly at the source.

Options such as integrated cooling mechanisms, insulated linings, and adjustable suction zones enhance their functionality, making them suitable for even the most challenging industrial applications. Seamlessly integrating with OMAR's centralised filtration systems or other extraction setups, they provide a robust solution for maintaining air quality and meeting stringent safety standards.

Exhaust Hoods with Steering Turntables | OMAR® EHSt

OMAR's suction hoods with steering turntables are advanced extraction systems designed for industrial applications requiring precise positioning to effectively capture airborne contaminants. The integrated steering turntable mechanism allows the hood to rotate smoothly, ensuring optimal alignment with emission sources, even in dynamic operational settings. This flexibility makes them ideal for industries such as recycling, metalworking, smelting, and manufacturing, where emission points may shift during processes.

Constructed from durable, corrosion-resistant materials, these hoods are engineered to withstand high temperatures and substantial particulate loads. Their aerodynamic design minimises turbulence and maximises suction efficiency, thereby reducing energy consumption in filtration systems. These hoods can be customised to meet specific operational requirements and integrate seamlessly with OMAR's centralised filtration units or other extraction systems.

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Exhaust/Suction Walls | OMAR® EW

OMAR's suction walls are advanced air filtration solutions designed to capture airborne pollutants across various industrial applications. These systems can be installed directly on the ground or supported by legs, featuring a suction front composed of pre-moulded slats that form longitudinal slits. This design enhances capture efficiency and ensures uniform airflow distribution throughout the entire section. Constructed from materials such as galvanised metal sheet, painted iron, or stainless steel, OMAR's suction walls are built for durability and adaptability to different industrial environments. For specialised applications, particularly in the painting sector, interchangeable fibreglass panels can be applied to the front to meet specific operational requirements. Exclusively represented in AU/NZ by Hard Recycle, OMAR's suction walls provide efficient and reliable solutions for maintaining air quality and ensuring compliance with environmental and safety standards.

Exhaust Cabins & Tunnels | OMAR® EC

OMAR's exhaust cabins and tunnels are specialised systems designed for efficient extraction of airborne pollutants in industrial settings, particularly in painting, drying, and foundry operations. In painting and drying applications, the suction cabins feature frontal suction with interchangeable fibreglass filter panels, while the tunnels are constructed from galvanised sheet metal with lower plane suction and air reintegration through a filtered ceiling. In foundry environments, these cabins are primarily designed for suction without filtration, constructed with modular panels made from various materials and connected to the central extraction system. Additionally, cooling tunnels for ingots are composed of easily removable panels for maintenance and inspection, equipped with upper suction inlets to effectively manage heat and fumes. OMAR's exhaust cabins and tunnels offer adaptable and efficient solutions for improving air quality and ensuring compliance with environmental and safety standards.

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Galvanizing Cabins | OMAR® GC

OMAR's galvanizing cabins are specialized enclosures designed in collaboration with leading Italian galvanization companies to meet specific operational requirements. Constructed from modular painted metal sheet panels, these cabins encase the galvanization tank, effectively containing emissions and ensuring a safer working environment.

The modular design allows for customization to accommodate various tank sizes and configurations, providing flexibility for different galvanization processes. By enclosing the galvanization area, these cabins help control the release of fumes and other pollutants, facilitating compliance with environmental and safety standards.

Exclusively represented in Australia and New Zealand by Hard Recycle, OMAR's galvanizing cabins offer tailored solutions for the galvanization industry, enhancing operational efficiency and workplace safety.

Exhaust Benches | OMAR® EB

OMAR's suction benches are advanced extraction systems designed to effectively capture dust, fumes, and particulates directly at the workstation, enhancing air quality and ensuring worker safety in various industrial applications.

Constructed from high-quality materials such as galvanised metal sheet, black painted metal sheet, or stainless steel, these benches are built for durability and adaptability to different working environments.

They are available in simple or double configurations, featuring a suction front with die-cast pockets, and offer options for upper or lower aspiration to suit specific operational needs. For added versatility, OMAR's suction benches can be equipped with integrated ventilators and filters, allowing them to operate autonomously without the need for external extraction systems. This self-contained design simplifies installation and maintenance, making them an efficient solution for managing airborne contaminants at the source.

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Suspended Suction Arms & Hose Reels | OMAR® SSA

OMAR's suction arms, units, and reels are advanced extraction solutions designed to effectively capture airborne contaminants directly at the source, enhancing air quality and ensuring worker safety across various industrial applications.

Suction Arms and Units: Ideal for welding stations or workbenches, these systems are available in simple configurations or with extensions, providing flexibility and ease of positioning within the work environment.

Constructed from materials such as galvanised metal sheet, black painted metal sheet, or stainless steel, they are built for durability and adaptability to different industrial settings.

Hose Reels: Equipped with special crush-resistant tubes, these reels are designed for motor exhaust gas extraction and test benches, featuring devices for seamless connection to exhaust tubes. This design ensures efficient removal of hazardous gases, maintaining a safe and compliant workspace.

Suction Ducts with Sliding Baffle | OMAR® SDb

OMAR's suction ducts with sliding baffles are advanced extraction systems designed for the efficient capture of airborne contaminants in industrial processes such as profiling lines and metal sheet cutting. The sliding baffle mechanism allows for precise adjustment of the duct's cross-sectional area, ensuring optimized airflow and effective containment of pollutants directly at the source. Constructed from robust, high-quality materials, these suction ducts are engineered for durability and adaptability to various industrial environments. The adjustable sliding baffle enables real-time modifications to suit different operational requirements, enhancing efficiency and maintaining consistent pollutant capture. This design is particularly advantageous in applications with variable emission rates, ensuring optimal air quality management. OMAR's suction ducts with sliding baffles provide customisable solutions for emission control, supporting compliance with environmental and safety regulations.

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Equipment and Solutions for the Circular Economy

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