



The MANN+HUMMEL Group

MANN-FILTER filters for industrial engines, construction equipment, agricultural machinery, air compressors, vacuum pumps and general engineering



MANN-FILTER - Perfect Parts. Perfect Service.



MANN-FILTER

Air Filters

Applications: single and two-stage air filters for engines, compressors, vacuum pumps, construction equipment, agricultural machinery and other industrial applications.

- Flow rates to 2800 CFM
- 99.9% efficiency at 3 micron
- Europiclon, NLG, Picolino, Picolight, IQORON, and ENTARON offer the latest in metal free, corrosion-proof, and environmentally-friendly air filtration technology
- Cabin air filters provide clean air inside the vehicle



Air/Oil Separators

Applications: tank and in-line colascers for screw compressors, sliding-vane compressors, scroll compressors and vacuum pumps.

- Separation efficiency of 1 to 3 PPM
- Upright and upside down installation of spin-on separators
- Depth separator colascers can decrease tank sizes by half



Crankcase Emission Solutions—ProVent

Applications: commercial and industrial diesel engines.

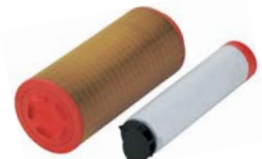
- Highly efficient oil separation as a closed or open system providing ideal protection for the turbocharger and other components installed downstream
- Less motor oil consumption
- Universal usage: exceptional for variable flow rates
- Integrated safety feature against irregularly high crankcase pressure
- No electrical energy required



Air Dryer Box

Applications: pneumatic brake systems.

- Ensures safety by not allowing moist air to enter the brake system
- Versatile in that it both dries the air and removes dirt particles, oil and oil carbon from the air
- Reduces operating costs of the vehicle





Spin-On Filters

Applications: for filtration of lubricating oils, hydraulic fluids and fuels in engines, machines and hydraulic systems.

- Flow rates to 145 GPM
- Operating pressures to 510 PSI
- Bypass and anti-return valves available

Cartridge Filters

- New technology
- Environmentally-friendly due to no metal housing
- Simple installation

EDM Filters

Applications: wire and cavity-sinking EDM machines.

- Super-fine filtration to 1 micron
- Pressure differential of 50 PSI
- Large filtration surface ensures a long service life
- Metal-free filter elements are corrosion-proof and offer easy disposal
- Filters fineness options in 5, 10, and 25 micron available

Vacuum Filters

Applications: vacuum pumps.

- Flow rates to 1100 CFM
- Features traditional metal canisters and new lightweight plastic versions
- Housing is vacuum tight to 28" Hg
- Filter elements provide 99.9% efficiency at 3 micron

Marine Filters

Applications: ocean and other marine vessels (cargo ships, cruise liners, tugboats, yachts, etc.)

- Oil, hydraulic and fuel filters
- Pleated paper air filters and wet air filters
- Bypass filters, high pressure filters (to 5800 PSI), and self-cleaning filters





The MANN+HUMMEL Group

The MANN+HUMMEL Group is an international company. In 2009, the company achieved sales of approximately \$2.6 billion. The MANN+HUMMEL Group currently employs around 11,500 people at 43 locations worldwide. The company develops, produces and sells

technically complex automotive components such as air filter systems, intake manifold systems, liquid filter systems and cabin filters for the automotive industry, and filter elements for vehicle servicing and repair. For general engineering, process engineering and industrial manufacturing

sectors of the company's product range includes industrial filters, filter systems, and materials handling systems and equipment. MANN+HUMMEL customers come from a large number of sectors, with series production for the automotive industry

occupying a key position. MANN+HUMMEL continues its commitment to the environment by always finding the better way to save energy and resources. Further information about MANN+HUMMEL can be found at www.mann-hummel.com.



MANN+HUMMEL USA, Inc.

6400 South Sprinkle Road • Portage, MI 49002

Tel. (269) 329-7219 • Fax: (269) 328-5008

Email: info-us@mann-hummel.com • www.mannhummel.us