

# MANN-FILTER

## Unbeatable from the start

### Real values that count

#### » Matching OE quality



Modern compressors require mature filter technology in matching OE quality. For MANN-FILTER, OE quality is not just a buzz word, but tried and tested filter know-how.

That is why leading compressor manufacturers put their trust in the top-quality products of MANN+HUMMEL.

#### » Innovation leader



MANN+HUMMEL have been active in the development and manufacturing of filters for compressors for more than 60 years. Every year, around 4 percent of the total revenue flows back into research and development.

700 employees worldwide work in this sector, designing innovative, economic and individual product concepts.

#### » Products and service



Nowadays, fast delivery and a wide market coverage count more than ever before. This is why MANN-FILTER offers its partners premium quality, high availability and maximum cost effectiveness.

Our customers value the excellent support on everything that has to do with filters and also the well designed MANN-FILTER product catalogues. See for yourself.

# Strong filtration chain:

## Energy efficiency and cost effectiveness are what count

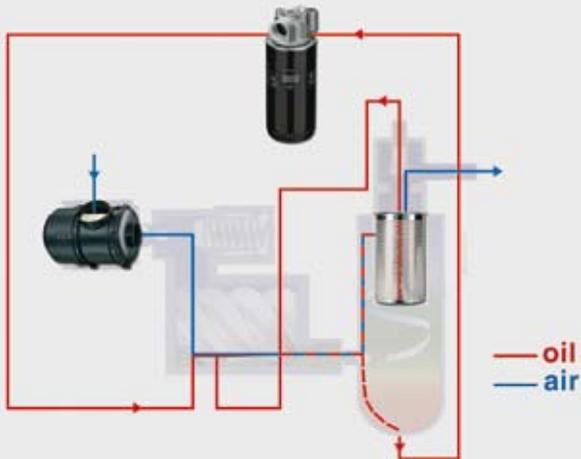
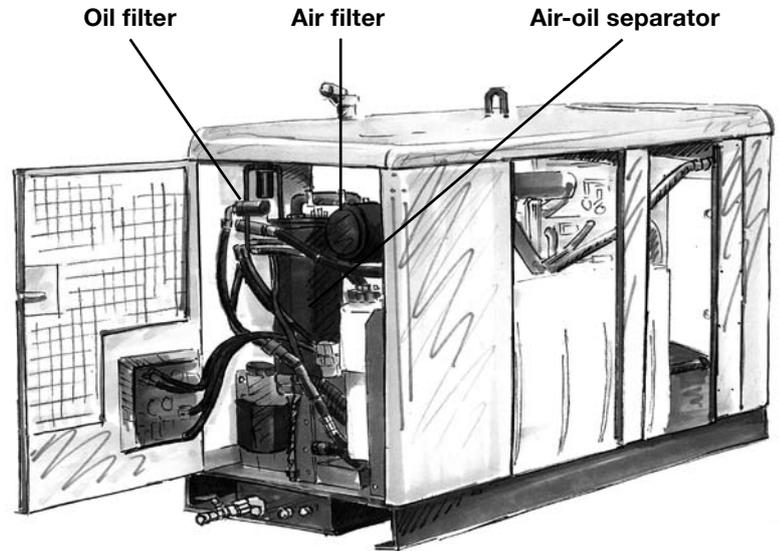
**Air filters:** Prevent dirt from being sucked in with the intake air, and hence wear on the compressor. They ensure the long service life of all filter systems in the compressor. Minimum pressure losses guarantee long service life and high energy efficiency.

**Air-oil separator elements:** Low residual oil content extends the service life of fine filters downstream. Minimum pressure losses guarantee energy efficiency and long service life.

**Oil filters:** Clean oil prevents wear in the compressor and extends the economic life-time of the air-oil separator element.

### Cheap filters lead to a weak filtration chain:

The service lives of non-OE quality filters compromise each other reciprocally, and the resulting premature rise in pressure in all filters leads to increased power consumption of the compressor.



## Reduce costs with MANN-FILTERS

Too fast an increase in differential pressure, as is often the case with cheap filters, costs a lot of money. For example, an air filter\* with a differential pressure that is 10 mbar higher generates additional energy costs of about 36 Euros a year. With air-oil separators\*, differences of up to 100 mbar can be detected, leading to additional costs of around 45 Euros a year.

With MANN-FILTERS, you are on the safe side even with your energy costs.

\*based on 50-hp compressor with a volume flow of approx. 5 m<sup>3</sup>/min and energy costs of 0.1 €/kWh.



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# **Green and Yellow Puts the Pressure On**

**Filters for compressors**

**MANN  
FILTER**

**MANN-FILTER – Perfect parts. Perfect service.**



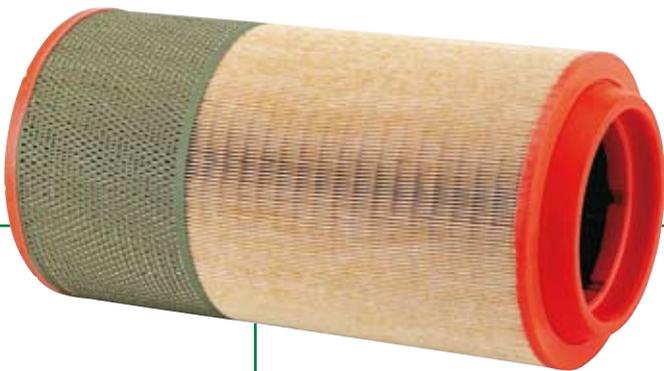
**Play it safe with maintenance:  
The filter range for all compressors**

- Air-oil separators
- Air filters
- Oil filters

# Every service under control: This filter range really stands

## Robust, energy-efficient and quick to exchange

For a supplier of complete filter systems robustness has the highest priority. With products from MANN-FILTER, your compressors operate reliably and economically. Together with the leading manufacturers in this sector, we are continually developing new solutions – and it is no coincidence that all well-known compressor manufacturers put their trust in MANN+HUMMEL as their development partner.



### **Air filters** - clean

- **Service life**  
Minimum pressure losses for long service life.
- **Reliability**  
High-quality components that are designed to work together safeguard your processes.
- **Economic**  
Provide top performance and energy efficiency.



### **Air-oil separators** - efficient

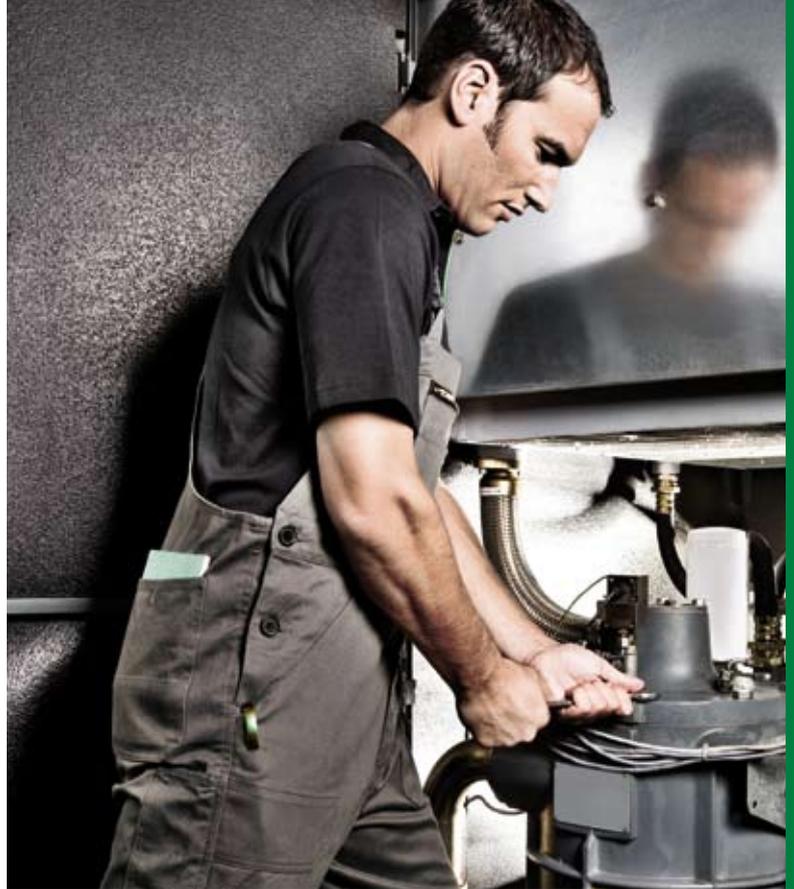
- **Maximum service life and energy efficiency**  
Great results thanks to minimum pressure losses.
- **Effective**  
Leads to minimum residual oil content of only 1-2 ppm.
- **Saves costs**  
Extends service life of downstream fine filters.

# out



## **Oil filters** – no problems

- **Reliable processes**  
All components are designed to work with aggressive compressor oils.
- **High-performance**  
Provides optimum wear protection thanks to high dust capacity.
- **Cooperative**  
Clean oil benefits the service life of the air-oil separator.



## **Regular maintenance is the best all-round protection**

After a defined period of operation, MANN-FILTERs too need to be serviced. We recommend that you follow the maintenance instructions provided by your machine manufacturer, because timely maintenance really saves money.

Manufacturers' instructions on service intervals are as a matter of principle based on the use of quality filters and should be respected accordingly.

### **Delayed maintenance costs money:**

#### **With the air filter:**

- Higher energy costs.
- Lower compressor performance.

#### **With the air-oil separator:**

- Higher energy costs.
- Higher residual oil content reduces the service life of down-stream fine filters.

#### **With the oil filter:**

- Reduces the service life of downstream filters such as air-oil separators and fine filters.
- Leads to greater wear on the compressor components and screw.