



## **MANN+HUMMEL filters for compressors**





## MANN+HUMMEL filters: economic and reliable

**In a compressed air system air/oil separators, air cleaners and oil filters all work together closely. When one does not work properly, other filter systems installed downstream may well lose performance and service life.**

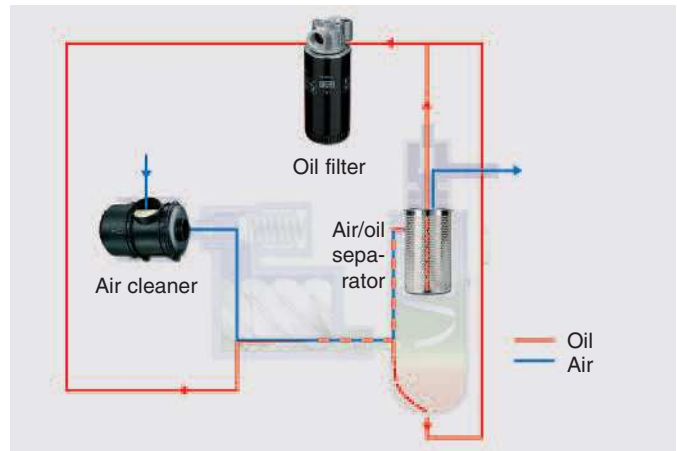
The opposite is also true: perfect function of the filters has a positive effect on the process reliability and running costs of your compressed air system. Therefore, when selecting a filter it is critical to make the right decision.

MANN+HUMMEL is the market leader for the development and manufacture of compressor filters and can offer you the security you need. The fine-tuned interaction of our air/oil separators, air cleaners and oil filters offers your compressor system ideal protection with a considerable increase in efficiency.

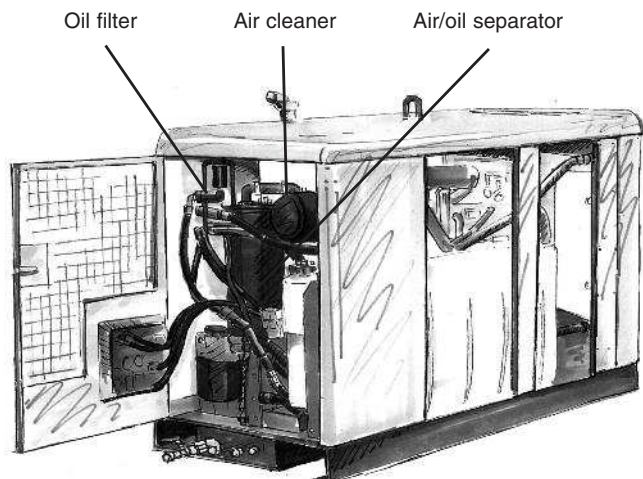
This is why all well-known compressor producers around the world work together with MANN+HUMMEL as a development partner and OEM supplier.

### MANN+HUMMEL air/oil separators, air cleaners and oil filters offer you:

- the right quality of compressed air at all times
- a long service life for all compressor filter systems
- low oil and energy consumption
- optimum protection against wear in your compressed air system



Perfect interaction in a compressed air system



# MANN+HUMMEL quality: from development up to series production

**Filter requirements for compressed air systems are increasing all the time. We offer OEM quality for air/oil separators, air cleaners and oil filters and thus meet these requirements.**

Decades of close cooperation and development partnerships with global leaders for OEM products have made us what we are today: experts for filtration applications in compressed air systems. We offer first class quality for both OEM and aftermarket products.



All filters – air/oil separators, air cleaners and oil filters – are specially designed in the development phase to work perfectly with the compressed air system in question. This ensures optimal interaction between the filter systems and efficient operation of the compressor.

Our expertise is also reflected in a number of development areas, e.g. our own media development or highly modern testing systems. New filters are tested there under extreme conditions which only seldom occur in the usual operation of the compressor.

In addition, we take great care to select our materials thoroughly. In co-operation with our suppliers we concentrate on working with partners which have their own quality assurance system. This guarantees us a consistently high quality for the end product.

With MANN+HUMMEL quality you are on the safe side!

# MANN+HUMMEL air cleaners: keep the compressor clean



**As all filters in a compressed air system work closely together, the quality of each filter is very important.**

The air cleaner is a critical factor since it influences all the other filter systems installed downstream.

Only air filters with the highest quality achieve the required

filter fineness and are therefore able to guarantee an economic and reliable operation of the system.

MANN+HUMMEL air cleaners are exactly matched to the respective compressor system and offer ideal protection with minimal pressure drop.

Therefore they increase the service life of all filters installed downstream.

## **Advantages of MANN+HUMMEL air cleaners at a glance:**

- long service life thanks to a high dirt holding capacity
- a separation efficiency of almost 100%
- absolute pressure tightness
- low energy costs thanks to low differential pressure values
- filter designed for air cleaner housing and therefore easy to service





## **MANN+HUMMEL air/oil separators: for low residual oil content**

**Air/oil separators are the first stage in a long chain of filters in the generation of compressed air.**

When compressed air is generated using oil-lubricated compressors it is inevitable that oil is present in the compressed air. The air/oil separators have the important task of removing this oil. If they work inefficiently due to bad quality, they lower the service life of the expensive fine filters installed downstream.

In addition the complete compressed air network has to be more frequently serviced because of the oil contamination. This leads to a considerable increase in running costs. Air/oil separators of inferior quality frequently result in high pressure drop in the compressor. The consequence is higher energy costs. MANN+ HUMMEL air/oil separators offer you the security you need. In combination with original oil and air filters they are impressively economic and offer high performance.

**Our air/oil separators are characterised by:**

- residual oil content of 1–3 ppm at a differential pressure of 0.2 bar
- elements able to handle a differential pressure of 5 bar
- protection against electrostatic charge
- corrosion-free design

# MANN+HUMMEL oil filters: optimally designed

**Compressor oil is a very expensive machine oil. High quality oil filters are recommended to conserve this oil and also to protect other parts of the compressed air system.**

MANN+HUMMEL oil filters are particularly designed to handle the aggressive running conditions of the compressor.

Just as with air cleaners and air/oil separators, the oil filters in a compressed air system are also part of a process chain in which the weakest link can seriously lessen the performance of the whole system. If the oil filter does not work properly, the dirt deposits will negatively affect the air/oil separators, fine filters and machine components. The result is a considerable shortening of the filter service life and increased maintenance costs for the compressor.



Our MANN+HUMMEL filters are made with high performance filtration media and elastomers which are specially designed for use with compressors. They can withstand continuous high running temperatures with a safety reserve.

## Further advantages of MANN+HUMMEL oil filters:

- high dirt holding capacity
- reliable function at cold start thanks to the bypass valve
- high mechanical stability of the whole filter and filter medium



# MANN FILTER

## **MANN-FILTER: the original is the best replacement**



Inferior copies – high risk

**Original products have always been copied by pirates and offered at lower prices. But a farsighted operator of a compressed air system will know that copies are products with an inferior quality which do not fit properly and force running costs up. Indeed they endanger the economic running of the compressed air system. In the worst case copies can lead to shutdown of the compressor.**

Therefore you should be exactly aware of the small but critical differences between copies and the original products.

Only original filters from MANN+HUMMEL offer you all the advantages you expect from a high quality filter.

- MANN+HUMMEL company
- Joint venture company

## MANN+HUMMEL Group

The MANN+HUMMEL Group is an international company with its headquarters in Ludwigsburg, Germany. The group employs approx. 11,800 people worldwide at more than 41 locations.

The company develops, produces and sells technically complex components for the automotive and other

industries. A key area is high quality filtration products for vehicles, engines and industrial applications. The OEM business with global market leaders and producers of vehicles, machines and installations defines the quality and performance of the group. Filters for the international aftermarket are sold under numerous inter-

national brands as well as under the MANN-FILTER brand.

### MANN+HUMMEL Industrial Filters

The Industrial Filters Business Unit with its headquarters in Speyer, Germany is specialised in meeting the requirements of off-highway

vehicle and engine applications, compressed air and vacuum technology, mechanical engineering and plant construction. For these and other industrial fields MANN+HUMMEL Industrial Filters offers high performance products for the filtration and separation of air, gases and liquids.



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