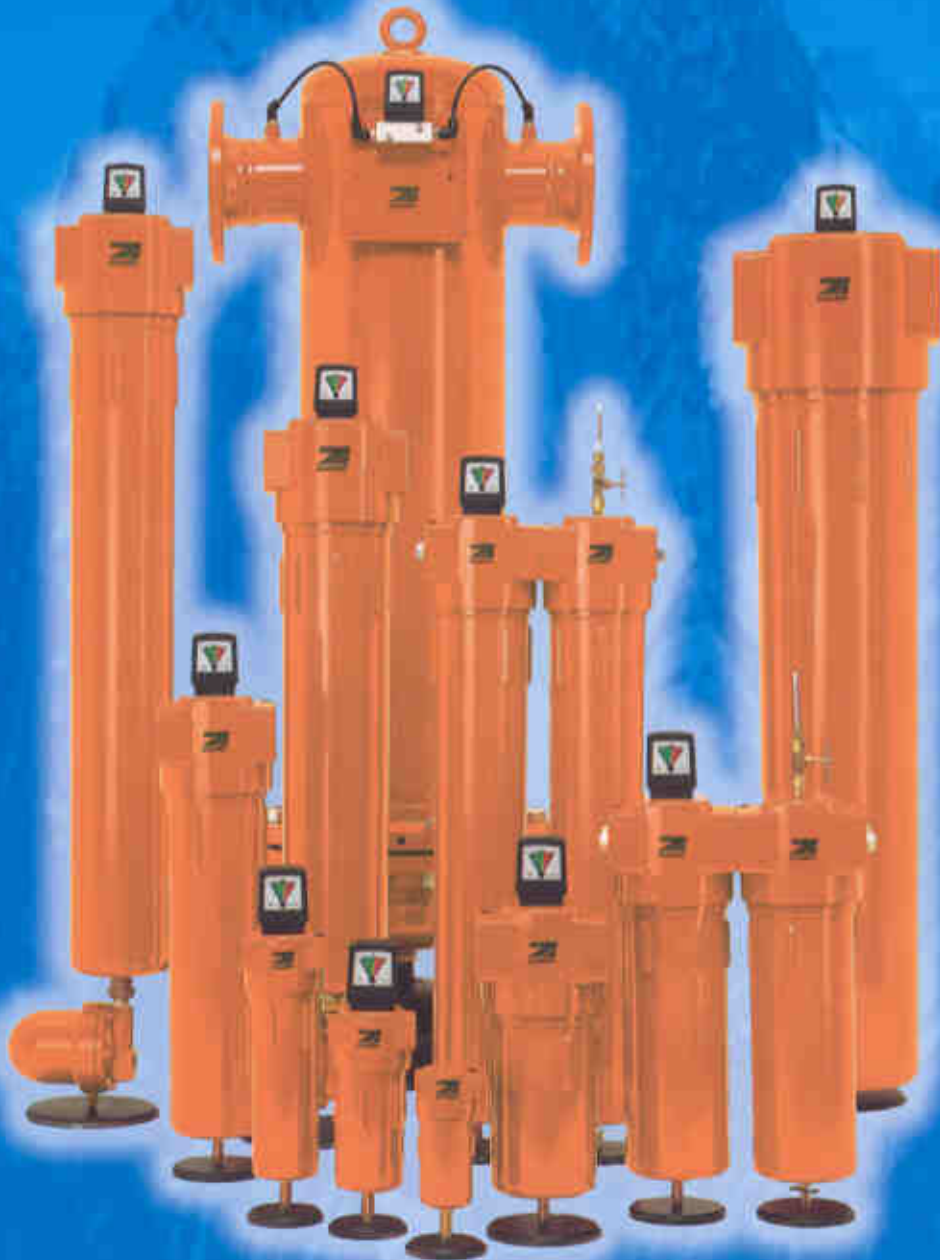


MICROFILTERS

***Compressed air cleaner than
the air we breathe!***



CHAMPION
COMPRESSED AIR & COOLING SOLUTIONS

*Compressors, Filters, Dryers, Ancillaries, Process Chillers.
Australia-wide service and support 24 hours a day, 7 days a week.*

Compressed air is an important energy source in today's industry because it is flexible and safe. But it is only fully efficient when it is clean.

The problem

Dust particles and airborne oil vapours are ever present in our modern day atmosphere, and when this is the air drawn into a compressor it is intensified around 8 times (for a 7 bar compressor). The humidity ratio in the compressed air also rises at the same ratio causing rust particles. Combine all of this with oil aerosols and other contaminants from the compressor and the result is a high compressed air contamination level that can lead to:

- Production down time;
- Unsafe working conditions;
- High equipment repair costs;
- Product reject costs;
- Missed deliveries;
- Unreliable equipment; and
- Polluted work environments.

Increased automation on the one hand and greater quality requirements on the other means that these unnecessary problems must be eliminated.

ZANDER has solved successfully, over many years, the problems using a modular range of purification equipment.

As one of the leading companies in the compressed air and gas purification business, we have now increased the quality even further to produce the new ZANDER Microfilter range.

The ZANDER range includes filter housings from $\varnothing 6\text{mm}$ to $\varnothing 300\text{mm}$ and will operate at pressures from 0 up to 350 barg so every requirement is met with a standard range of products.

Economical - safe - flexible

Economical thanks to the newly developed, environmentally friendly filter media.

Safe thanks to the compact and easy to service construction.

flexible because 5 filter types are available.

The concept

The Microfilters are designed to work efficiently either on their own or in several combinations depending on the application.



Microfilter series V

The prefilter range mainly takes out particles from the compressed air.

Thanks to the use of materials specially developed for this duty, the user enjoys a long service life with constant efficiency.

The efficiency is 99.99% of all particles of 3 micron and larger.

Smaller than 3 micron are fine particles such as dust and particularly oil aerosols which must be filtered out by a fine coalescing filter.

Here is where the newly developed high efficiency pleated Microfilters with their stepped grades are used.

Microfilter series ZP

Efficiency 99.99% at 1 micron. Oil retention down to $0.5\text{mg}/\text{m}^3$ at 7 bar and 20°C .

Microfilter series XP

Efficiency 99.9999% at 0.01 micron. Oil retention down to $0.01\text{mg}/\text{m}^3$ at 7 bar and 20°C .

If you need an even better quality of compressed air than what the series XP filter can produce, then an adsorption type filter is required.

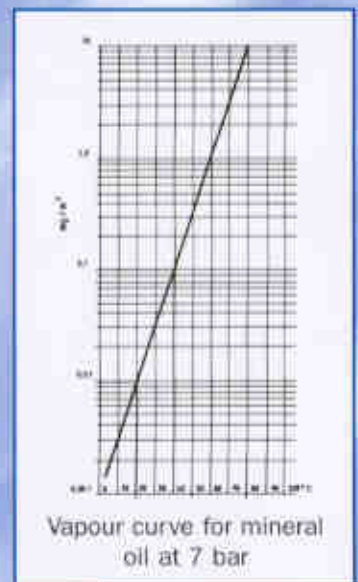
Microfilter series A

The Microfilter series A incorporates an activated carbon bed which adsorbs oil vapour. It is always preceded by a Microfilter series XP to remove oil aerosols.

Microfilter series XPA

The Microfilter combination XPA gives technically oil free and clean air which conforms to various Breathing Air Standards as long as maximum inlet volumes of CO and CO_2 are not reached.

As well as breathing air, the XPA combination filter is essential equipment for removing oil aerosols and vapour to protect instruments, spray painting plants, food industry where compressed air comes into contact with product before sterile filters.



AND GAS FILTERS

ZANDER Filter Elements

The quality of filter elements has become more and more important with the rising standards in the purity of compressed air and technical gasses, as well as an increase in environmental and energy awareness. Zander is one of the market leaders in the field of pre-, micro- and process filtration and a reliable partner for many industrial businesses around the world. Decades of experience in the development of compressed air and gas filters guarantee our customers top quality products.



ZANDER Pleating

Pleating is one of the production phases during the manufacture of our Zander filter elements, in which the heart of the filter fleece, is pleated mechanically. This means there is a significantly larger area available for the air or gas to flow through in comparison to wrapped filter elements. The area of the filter is many times larger than it would be without pleating. More filter area means - a lower velocity, lower differential pressure, better filtration efficiency, higher dirt holding capacity, longer service life and lower operating costs.



From the filter fleece to the filter element

At the heart of Zander filter elements is the pleated and multilayered filter fleece made from a non-shredding material with a void volume of up to 96%, which is surrounded by an additional filter and supporting material. Impurities in the form of particulates or residual moisture (aerosols) are trapped by the filter fleece using several filtration mechanisms and are hence removed from the air and gas flow.

The result is an extremely efficient filtered and purified air or gas flow.

The supporting body of a Zander filter element consist of high-support stainless steel expanded metal support with large apertures and with end caps made of plastic or optionally of aluminium or stainless steel.



ZANDER Advanced Technology

Zander is using a new filter material for the Advanced technology that makes it possible to integrate the draining layer directly into the pleated Zander filter fleece. The draining layer behind the outer support is thus protected and secured. Zander Advanced Technology gets around the problem of outer foam socks becoming brittle from chemicals, aging or excessive thermal strain. This innovative filter material is also non-aging, has few particulates of its own and offers improved draining results thanks to a larger surface produced by pleating.

