



## ■ Use Case: Activated carbon adsorber “highway”

The user, which has been supported by our trading partner W. Riedinger Kompressoren- und Druckluftservice for more than two decades, produces food and medicinal products without preservatives, artificial flavors and without genetically modified agricultural raw materials. The processed raw materials are mostly from organic cultivation and are tested according to the strict criteria of the pharmaceutical law.

### Challenge:

Compressed air is used as process and control air in the various processes of production, e.g. for transporting, filling or packaging. It also comes into direct contact with the product. High-quality processed and oil-free compressed air better than class 1 according to ISO 8573-1 is required. I.e. it meets not only the ISO standard, but also additional, stricter regulations of the user.

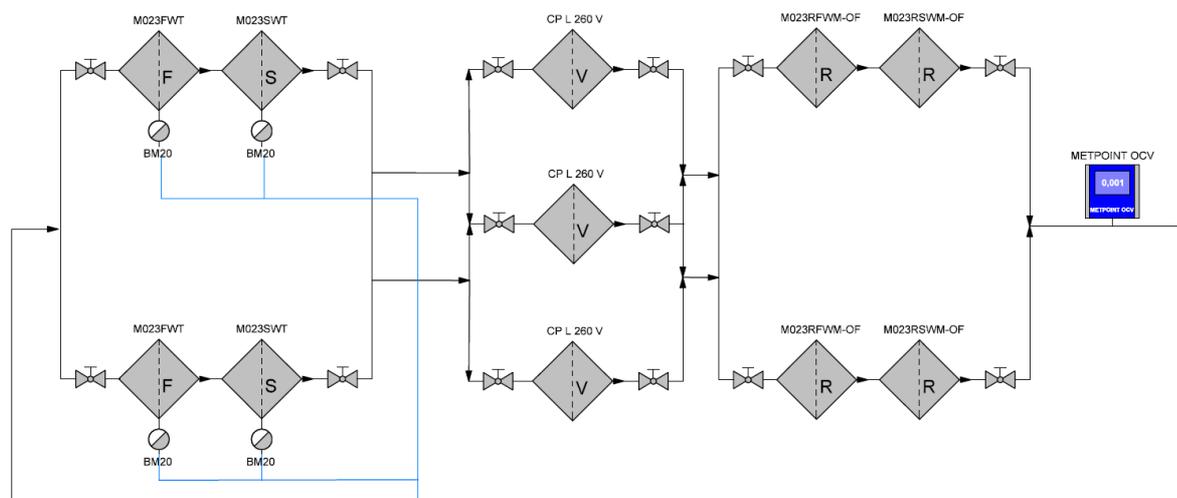
The existing treatment consisted of two compressed air refrigeration dryers including pre-filters, a CLEARPOINT L 260 V activated carbon adsorber including pre-filters and dust filters, and a METPOINT OCV residual oil content measuring device. Now, in the context of an increase in production capacity, the existing compressed air treatment system was to be expanded. In doing so, redundancy was to be created in order to enable maintenance during ongoing operation. Our trading partner W. Riedinger recorded the necessary operating parameters and contacted BEKO TECHNOLOGIES regarding oil-free compressed air of class 1.

### Solution:

The required redundancy was system-determining. Arriving from an already “double” operated dryer system in one line, the compressed air is then routed to two separate compressed air lines, each with a CLEARPOINT fine and superfine filter for prefiltration. The compressed air then flows into a network of three CLEARPOINT V activated carbon adsorbers connected in parallel. Within this 3-lane adsorber “highway”, each line upstream and downstream of the adsorbers is equipped with shut-off valves. After the adsorbers, again two redundant systems are set with special oil-free CLEARPOINT fine and superfine dust filters before the compressed air flows to the respective application. For safety reasons, the residual oil content of the compressed air is still measured with the METPOINT OCV before the end points.



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### Conclusion:

This redundant solution is the result of an excellent partnership between BEKO TECHNOLOGIES and the specialist dealer W. Riedinger. Thanks to the arrangement as a 3-lane adsorber highway, a redundancy was created that makes maintenance of all activated carbon adsorbers and compressed air filters easily possible during ongoing operation. As a joint on-site appointment showed, with a measured residual oil content of 0.0016 mg/³, all contributors are highly satisfied.

### Products:

- 2 x Threaded filter CLEARPOINT® 3eco M023FWT
- 2 x Threaded filter CLEARPOINT® 3eco M023SWT
- 3 x Activated carbon adsorber CLEARPOINT® L260V
- 2 x Dust filter CLEARPOINT® 3eco M023RFWM-OF
- 2 x Dust filter CLEARPOINT® 3eco M023RSWM-OF
- 1 x Residual oil content measuring system METPOINT® OCV