



■ Use Case: Compressed air in the pharmaceutical industry

What can be done if the control air does not meet the required quality standards?

A globally active German pharmaceutical company sees a need for improvement in compressed air treatment.

Challenge:

Our customer from the pharmaceutical industry has several production buildings and businesses from the chemical & pharmaceutical sectors in his plant. All of them use compressed air mainly as control air, but have different quality requirements. The quality assurance department specified the compressed air quality that these decentralized businesses will have to maintain in future: [2:3:1] and [1:2:1] according to ISO8573-1.

Compressed air is supplied by a central compressed air generation system. The pipeline route to the individual production facilities and operations can be several hundred meters long. Contamination in the pipelines can also have a negative effect on the quality of the compressed air.

Using a mobile quality measurement by BEKO TECHNOLOGIES, the actual condition at the decentralized building entrance was determined. A direct comparison with the compressed air requirements of the QA department showed an urgent need for action.

Solution:

The customer already has an "oil-free compressed air generation" with subsequent EVERDRY dryers centrally. In order to achieve the required compressed air quality classes at the various end points, the customer, after our consultation, decided in favour of decentralized treatment at the respective building entrance using CLEARPOINT activated carbon adsorbers including appropriate pre- and post-filters and a bypass option. The central compressed air drying made additional drying obsolete here, the focus was only on filtration.

For safety reasons METPOINT measurement technology will monitor compressed air quality according to ISO8573-1, especially particles, residual oil content and pressure dew point.



Conclusion:

The solution using a classic activated carbon adsorber and appropriate pre- and post-filtration is a well-known and industry standard treatment solution which was welcomed by the customer. After installation of our products, all desired quality requirements have been met so far.



Conclusion: products:

Pre-filter: CLEARPOINT M022 SWT

Activated carbon adsorber: CLEARPOINT L260VWM with piped dust filter (OF)

Second dust filter CLEARPOINT M027 RS WM-OF

Bypass solution: CLEARPOINT M022ST + CLEARPOINT M023AWM-OF

Measurement technology: METPOINT BDL_4er + METPOINT SD21 + METPOINT OCV COMPAC

+ Particle Sizer PC400