



## ■ Use Case: Compressed air for special glass

Our customer is a leading technology group for glass ceramics and special glass. Similar to the automotive segment, we are aiming for a 0% complaint rate here. To achieve this, possible risk factors in production must be excluded. This also applies to the compressed air used in production.

### Challenge:

The customer uses 2 compressed air networks. One is required for control air and for machine applications with 7 bar(g) operating pressure. The customer uses the second compressed air network to cool and clean glass after production and shaping. Here the compressed air comes into direct contact with the product.

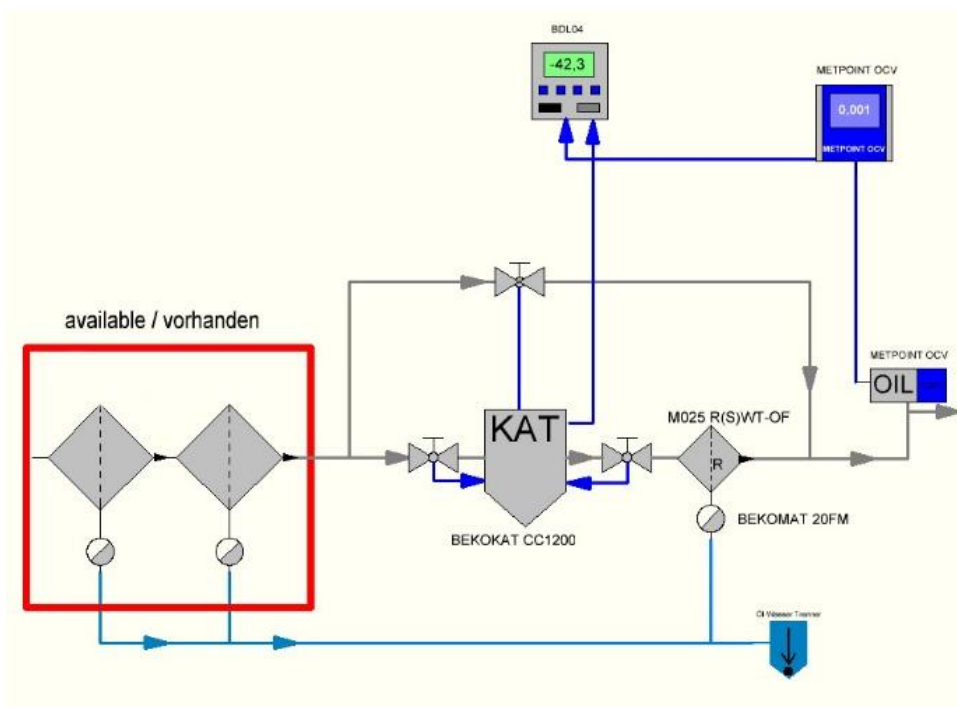
Despite an existing compressed air treatment system with filters, refrigerant dryer and activated carbon adsorber, production errors due to oil ingress in the compressed air were clearly visible. The valves in the compressed air network also had to be cleaned regularly.

By taking part in a compressed air seminar on compressed air quality, we were able to convince the customer's project managers to commission a test station with a BEKOKAT® catalytic converter in combination with the METPOINT® OCV compact residual oil content measuring system with regard to preparation for the second compressed air network.

### Solution:

After clarification of all technical details the installation was carried out. The residual oil vapour content of the compressed air was from now on measured by METPOINT® OCV compact. Pressure, pressure dew point, temperatures and the volume flow were measured by mobile devices. The quality of the compressed air was transparent and stored in a data logger. The catalytic converter BEKOKAT® completely converts hydrocarbons into carbon dioxide and water by total oxidation at the catalyst. The process thus consistently produces oil-free compressed air with a maximum residual oil content of hardly measurable 0.003 milligrams per cubic meter.

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### Conclusion:

After a short time, the customer was enthusiastic about the result of the test system - a high-quality, oil-free compressed air - and a proper order was placed. In the meantime, the customer is already running his third system. In addition, a framework agreement was negotiated for further plants until 2025.

### products:

Catalytic Converter BEKOKAT® CC1200

Compressed air filter CLEARPOINT® M025RSWT-OF (oil-free)

Data logger METPOINT® BDL04

Measuring instrument METPOINT® OCV compact

Further METPOINT® sensors

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