



Service



# Service with Vision: For increased Safety and Productivity

# Our Service Promise: Direct, Competent, Consistent

As a manufacturer with decades of experience in compressed air and compressed gas technologies, it is self-explanatory that we can also provide the applicable service performance for you along with our high-quality products. What this means for you: increased efficiency, maximum availability, optimal production safety and reduced costs.

Our progressively trained service technicians and certified specialists are always available to help you. Forward-looking service is just as much a part of our performance just like calibration in our own analysis and calibration laboratory and the compressed air audit.

Our service team also participates in product development. This enables us to constantly improve our products – learning from practical experience for the field.



Measurement technology



Drying



Condensate technology



Filtration



## Our Manufacturer Competence:

- › Close interaction between service, product development and product management as well as quality management according to ISO 9001
- › In-house laboratory for controlling, inspecting and measuring in all fields for compressed air and condensate technologies
- › Ongoing training and further education for service staff
- › Additional training for every service technician to qualified electro and refrigeration specialist



Service



Oil-free



## Installation and Commissioning

The successful start-up with your **BEKO TECHNOLOGIES** product commences with the professional installation and commissioning by our service technicians. Ensures a trouble-free integration into your compressed air system on site.



## Maintenance by the Manufacturer

Preventive maintenance instead of costly repairs - this is our service motto, with which we identify possible malfunctions and imminent breakdowns in advance and make it possible to plan the optimum maintenance deadline for you.



## Plant Optimising and Air Audit

Over 50% of all compressed air systems contain considerable potential for optimisation in terms of energy efficiency and compressed air quality. We measure the relevant parameters, enable you to see your compressed air quality and present the path to the optimum.

# For an Optimal Start

If one has been designing compressed air systems for many decades, then one has experienced almost everything. We know exactly how to integrate our products optimally into your system or plant so that the interaction of all components operates smoothly – starting from day one.

## Installation

- › Professional installation for problem-free, fast and cost-effective integration into your compressed air system
- › Installation date coordinated to your production planning

## Commissioning

- › Professional commissioning and adjustment for the optimum operating parameters for maximum energy efficiency
- › Comprehensive function and integration testing as well as subsequent adjustments, if necessary
- › Extensive training of your employees for the functionality and operation of the plant and systems
- › Creating customer-customised documentation

## Predictive maintenance

# For Maximum Availability and Efficiency

Forecasts for the future are a service reality for us: We can always react punctually by anticipating possible malfunctions and failures at an early stage. Our services such as the maintenance contract and the service agreement enables you to plan your service requirements – and you save costs from expensive repairs and production downtimes.

## Predictive maintenance

- › Increased economic efficiency by utilising preventive service for early detection and repairing damage:
  - › Inspection for damage, fixing and completeness
  - › Inspection and adjustment of technical process-related parameters
  - › Inspection of components and electronics
- › High efficiency and economy throughout the entire application time utilising regular maintenance

## Service agreement

- › Reliable cost calculating based on fixed maintenance costs over a fixed agreed period of time
- › Individual adjustment of the contract term to your requirements and demands
- › Professional damage repair within 24 hours by qualified service technicians as well as
  - › Testing and, if necessary, readjustment of function and safety-relevant components
  - › Faultless service documentation and compliance with accident prevention regulations



DNV-GL

## MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 64774-2009-AQ-QER-DNAIG      Initial certification date: 23. March 1994      Valid: 23. March 2018 - 28. February 2019

This is to certify that the management system of

**BEKO Technologies GmbH**  
281 Teubenthal 7, 41460 Neuss, Germany  
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:

**ISO 9001:2015**

This certificate is valid for the following scope:

**Design, production, sales and service of**

- Electronically level controlled condensate drains, oil water separations systems and emulsion splitting plants for condensate technology
- Dryers, filters, deep-cooling systems and catalytic converters for the treatment of compressed-air and -gas
- Measurement devices for process and condition monitoring in compressed air and compressed gas systems

and sales and services of devices measurement- and control-devices for compressed air and compressed gas systems

Place and date:  
Essen, 28. March 2018

For the issuing office:  
DNV GL - Deutsche Normen  
Schillerstraße 14, 40229 Essen, Germany

  
Yvonne Wick  
Technical Manager

  
DAKS  
Deutsche  
Zertifizierungsstelle  
D-38380 G0-00

Link of full-text of certificate as set out in the Certification Agreement may under the Certificate number  
https://certificates.dnvgl.com/2009-AQ-QER-DNAIG/64774-2009-AQ-QER-DNAIG/2018-03-28/28-02-2019  
Tel: +49 201 2396 222 - www.dnvgl.de/assurance

## Calibration

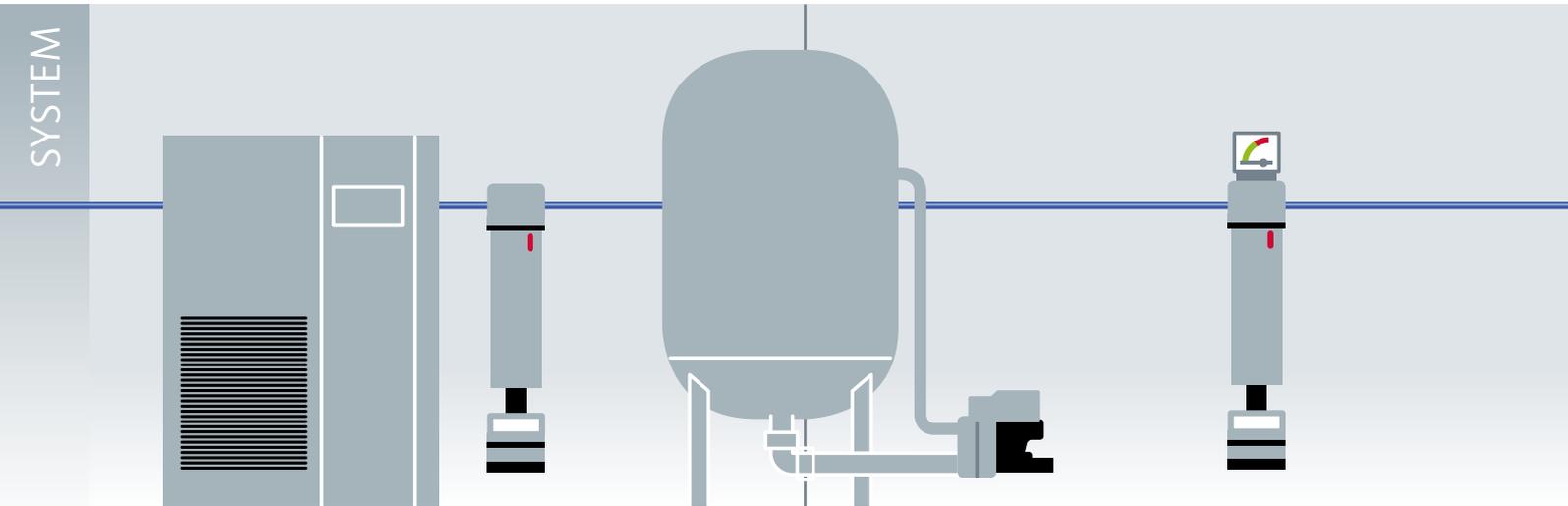
- › Trouble-free and safe function of the measurement-technology components by means of regular calibration and adjustment
- › Precise measurement results at all times by cleaning the measurement-technology device from contamination caused during utilisation
- › Measured values in accordance with requirements from quality assurance guidelines by testing and calibration in accordance with the international quality standard DIN EN ISO 9001
- › The data can be utilised for optimisation of the compressed air station.

## Repair work

- › Ensuring smooth working processes and prevention of production downtimes utilising professional and rapid repair service
- › The majority of repairs are executed directly on site with original **BEKO TECHNOLOGIES** spare and wearing parts. on site due to our excellent spare parts logistics
- › Execution of special work in the **BEKO TECHNOLOGIES** service workshop
- › Detailed cost estimate before repair work and detailed records after completion

# Finding and Using the Savings Potential of Your Plant!

The components of a compressed air system influence each other and are therefore subject to changing ambient and operating conditions. This not only affects the efficiency of your plant but also the quality of the compressed air. In order to make the full potential visible, we examine compressed air systems and plants within a comprehensive compressed air audit. With impressive results: **More than 50% of the compressed air plants which we examined indicated considerable optimisation potential!**



SYSTEM

CHALLENGE

- › In more than 50% of all applications, the compressed air requirements were not achieved.
- › More than 80% of the compressed air plants exceeded the maximum permissible residual oil content.
- › Humid compressed air accelerates micro-bacterial activity. This makes e.g. food useless quicker.

- › On average, 22% of energy costs can be saved by modernisation or optimised service.
- › Flow rate resistances in the plant mean that the compressor must operate at higher pressure. For every 1 bar of increased operating pressure, the energy costs increase by 6 – 10%.
- › Implemented filters lead to considerable additional costs and the required filter result can no longer be supplied as process-safe.
- › The previous plant design is no longer applicable due to changed operating conditions, it will be inefficient.

SOLUTION

## “Compressed Air Quality” Air Audit

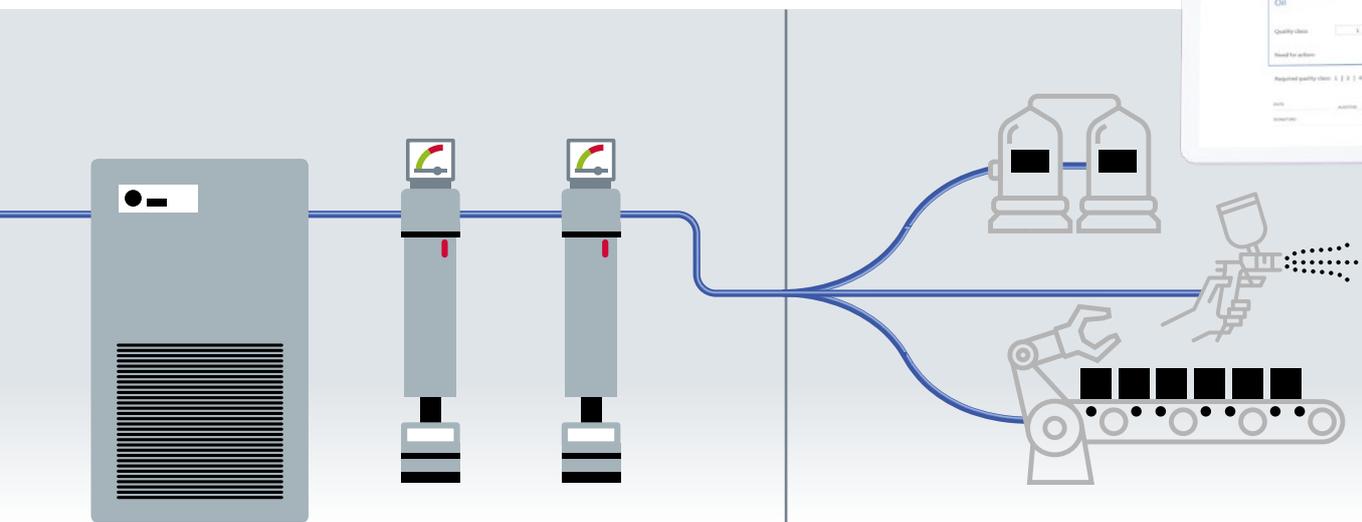
- › Recording compressed air quality inventory
- › Analysis and adjustment with regard to humidity, moisture, particle and residual oil content according to DIN EN ISO 8573-1
- › Long-term measurement of available compressed air quality and comparison to actual requirements

## “Energy Efficiency” Air Audit

- › Measuring energy consumption
- › Analysis of weak points (leaks, pressure drop, etc.)
- › Assessment of energy efficiency
- › Concept to reduce energy costs with amortisation calculation

## The top 2 reasons for the need for optimisation:

1. The previous plant design is no longer applicable for today's requirements due to changed operating conditions.
2. The expected compressed air quality is not, or only temporarily, achieved due to particles, humidity, moisture or residual oil content.



- › Individual components are often maintained in different time-related schedules. The frequent shut down of the plant reduces the machine operating time.
- › The production potential is not utilised when there is no interlocking coordinated service interval.
- › Replacement of desiccants in rigid time cycles is a total waste of money. The performance capacity of the desiccant is not exhausted in this way
- › High plant utilisation rates do not permit unplanned failures. Maintenance must be executed as utilisation-related and take place as a preventive measure.

## “Wear” Analysis Service

- › Analysis of the performance capability and duration for desiccants and activated carbon
- › Determination of optimal exchange time period
- › Retaining process safety and reliability

- › Measuring compressed air quality is the most effective measure for preventing losses or legal consequences.
- › Deviations in the measured value display from the true value increase the risk of production rejection or claims for damages.
- › Testing measuring resources is an integral part of every QM system, which will be inspected by an external auditor.

## Calibration Service

- › Trouble-free and safe function of the measurement-technology components by means of regular maintenance and calibration
- › Ensuring the precision of the measuring devices
- › Compliance with calibration intervals (required by quality management systems)
- › Preventing claims for damages due to insufficient measuring accuracy

# What can we do for you?

We can provide you with applicable services tailored to your needs for the optimum efficiency, economy and availability of your compressed air plant.

## You can reach us at these service contacts:

 +49 21 31 988 10 00

 [service-eu@beko-technologies.com](mailto:service-eu@beko-technologies.com)

## This is **BEKO** TECHNOLOGIES:

- › Established in 1982 by Berthold Koch
- › Independent, family-owned company
- › Based in Neuss, Germany
- › Operates production plants in Germany, the USA, India and China
- › Global sales network
- › Committed to the highest quality standards
- › Certified according to EN ISO 9001:2015

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**Better through responsibility**

