



BEKO TECHNOLOGIES GmbH



13th Annual

EMS Summit

European Manufacturing
Strategies

27 - 29 November 2017 | Berlin, Germany

Better through responsibility



BEKO TECHNOLOGIES – WHO WE ARE ?

- Founded in 1982 by Berthold Koch
- Independent, family owned company
- Headquarters in Neuss, Germany
- More than 500 employees worldwide
- 6 production sites (Germany, USA, India and China)
- Approximately 86 Mio. € turnover 2016
- Customer focussed, global sales and service organization



1982 - BEKOMAT®

Pioneering: worlds first electronically level-controlled condensate drain.



2016 - DRYPOINT® M eco

The first compressed air membrane dryer with an adjustable pressure dew point.



1995 - DRYPOINT® M

The exceptionally efficient compressed air membrane dryer.



2013 - METPOINT® MMA

System for continuous and reliable monitoring of medical compressed air (aer medicalis).



2007 - BEKOKAT®

Catalytic converter to generate and guarantee oil-free and germ-free compressed air.

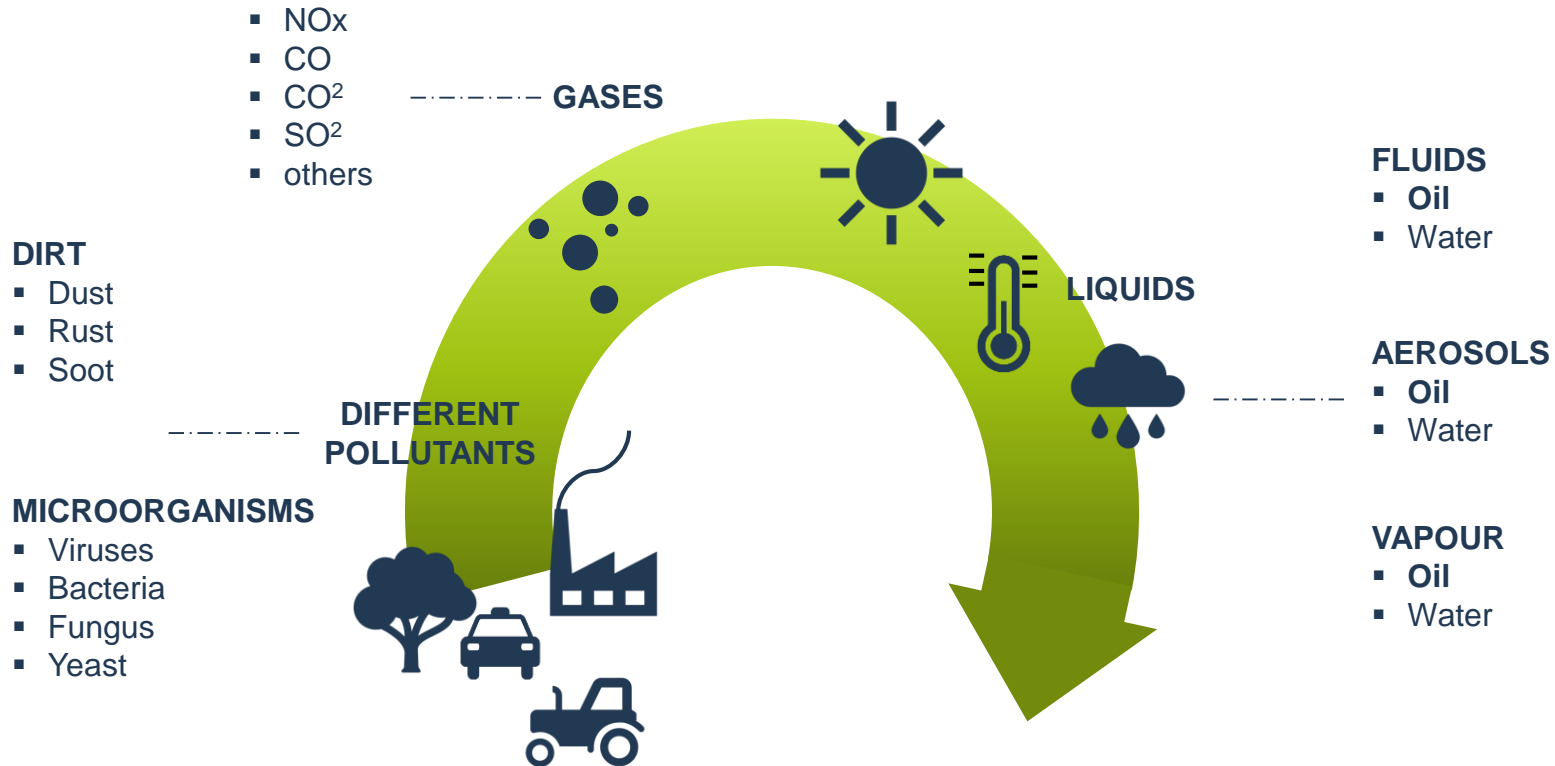


2009 - METPOINT® OCV

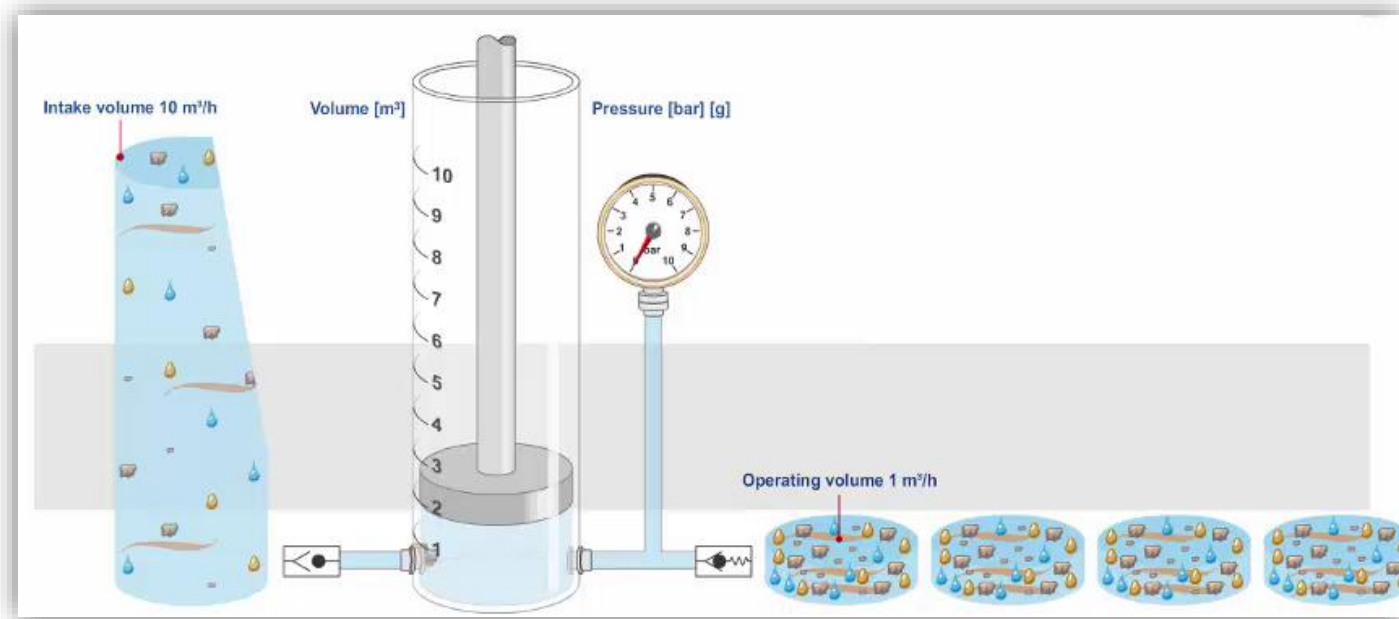
Worlds first certified measurement system for the detection, logging and monitoring of residual oil vapor in compressed air.



Influencing factors



Do not underestimate your compressed air quality !



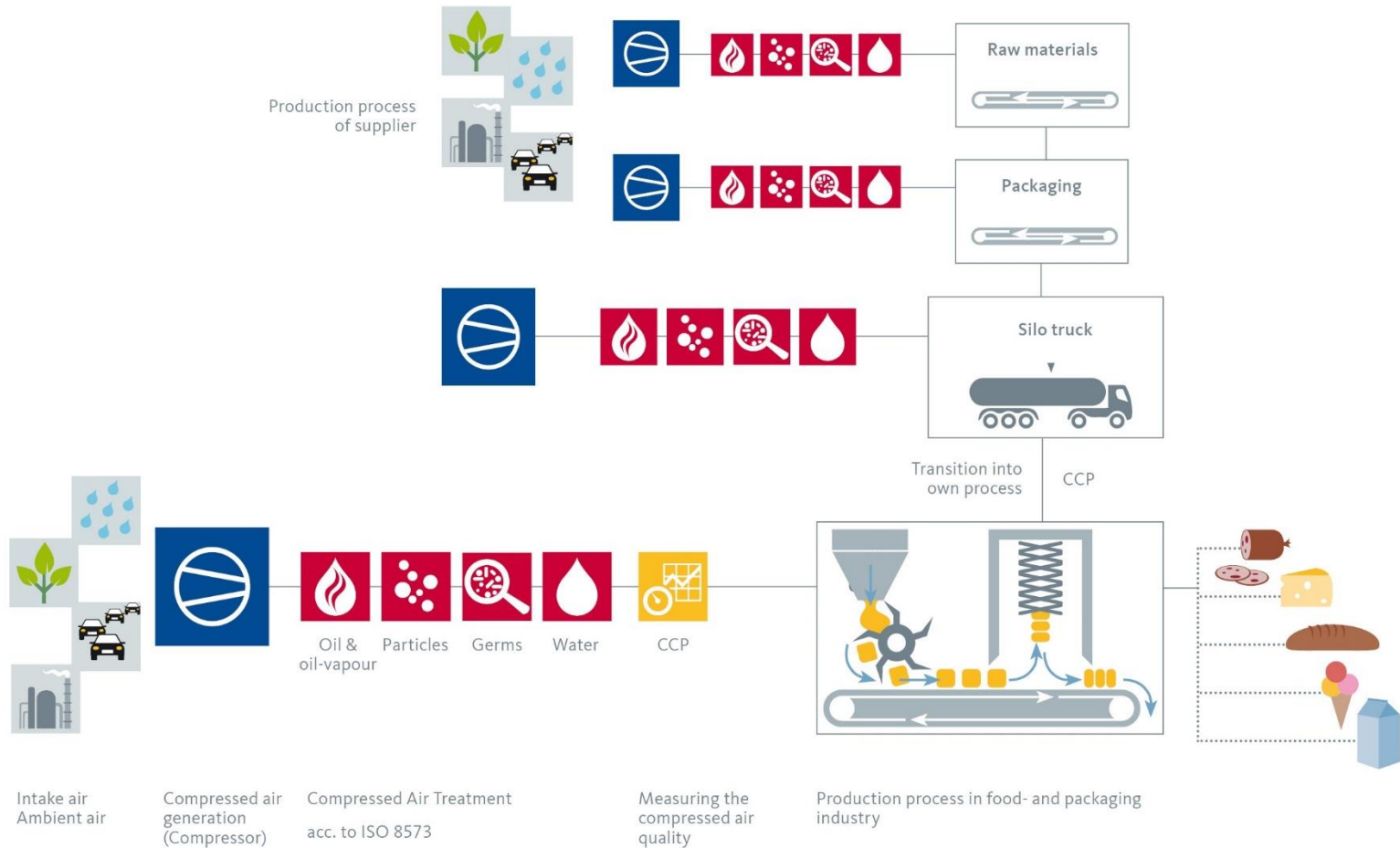
Compressed air treatment



“A safe process is the key to success!”



Example of a food production process



Quality classes according to ISO 8573-1

Quality Class	Solid particles,max. number of particles per m ³			Pressure dew point (°C)	Oil (incl. vapour) (mg/m ³)
	0,1 µm – 0,5 µm	0,5 µm – 1,0 µm	1,0 µm – 5,0 µm		
0	In accordance with the device operator's or supplier's specification, stricter requirements than class 1				
1	≤ 20.000	≤ 400	≤ 10	≤ -70	≤ 0.01
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40	≤ 0.1
3	–	≤ 90.000	≤ 1.000	≤ -20	≤ 1
4	–	–	≤ 10.000	≤ +3	≤ 5
5	–	–	≤ 100.000	≤ +7	> 5
6	–	–	–	≤ +10	–

Proven on-line measurement equipment



Humidity

ISO 8573-3

Electrical dew point transmitter

-60 ... +40° Ctd



Particles

ISO 8537-4

Laser partiel counter

>0.1 ... 5.0 μm

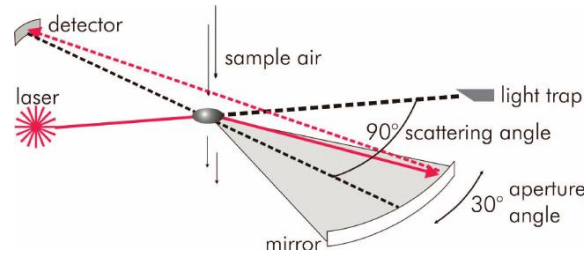
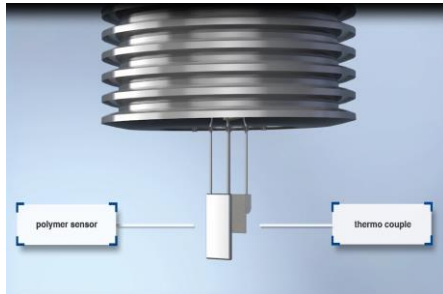


Oil content

ISO 8537-5

PID-Sensor

<0.01 ... 5.0 mg/m^3



Environmental / intake air conditions

- Location of air intake ?
- Atmospheric composition ?
- Special characteristics ?
(pollen, soot, builder´s dust ...)

Compressor room

- Location ? Conditions ?
- Kind of compressor ?
(performance, maturity, model, controller, service interval ...)

Compressed air receiver, pipe work etc.

Compressed air treatment

- Central / decentral
- Water separator
- Pre-filter
- Drying
- Afterfilter
- Sterile filter
- Measurement technology
- Condensate draining
- Condensate treatment

Products from suppliers

- Certificates?
- Specifications?
- Direct/indirect contact

How do you ensure the quality of your compressed air !



Complete solutions for the quality of your compressed air !

 Drying



 Measuring technology



 Filtration



 Process technology



 Condensate technology



 Service



Thanks for listening !

