



Use Case: Compressed air in the printing industry

Jelly-like material blocks trap

A leading manufacturer of flexible paper packaging encountered problems in its compressed air system. The compressed air operates control valves and moving parts like cylinders as control air. As working air it is needed for cooling and for threading and knocking off paper webs. In the event of web breaks, compressed air is often used to blow the paper machine free.

challenge:

The user has been integrating the ÖWAMAT® oil-water separator into his compressor station for some time now to treat the compressed air condensate. For no apparent reason, a jelly-like material formed in the condensate drain BEKOMAT®, which blocked the subsequent ÖWAMAT® oil-water separator. Due to backwater, it ran through the compressed air system shortly afterwards.

BEKO TECHNOLOGIES decided to take a condensate sample and analyzed the components. Result: material from the printing process together with water and compressor oil formed a stable emulsion, which could not be treated by gravity separation alone, even over longer periods of time.

solution:

The optimum solution here was the emulsion splitting plant BEKOSPLIT®. It enables the reliable, economical and in-house treatment of the emulsified condensate. Water-insoluble organic contaminants such as oils and solid contaminants are removed here by adding a special reaction separating agent. The outflowing water can then be discharged into the sewerage system without contamination. This has been confirmed by the German Institute for Construction Technology (DIBt).

Conclusion:

After commissioning the BEKOSPLIT®, the cleaned condensate could be discharged directly, and the compressed air system has been running optimally ever since.

products:

1 x BEKOSPLIT®

Edition: USC0016, August 2020