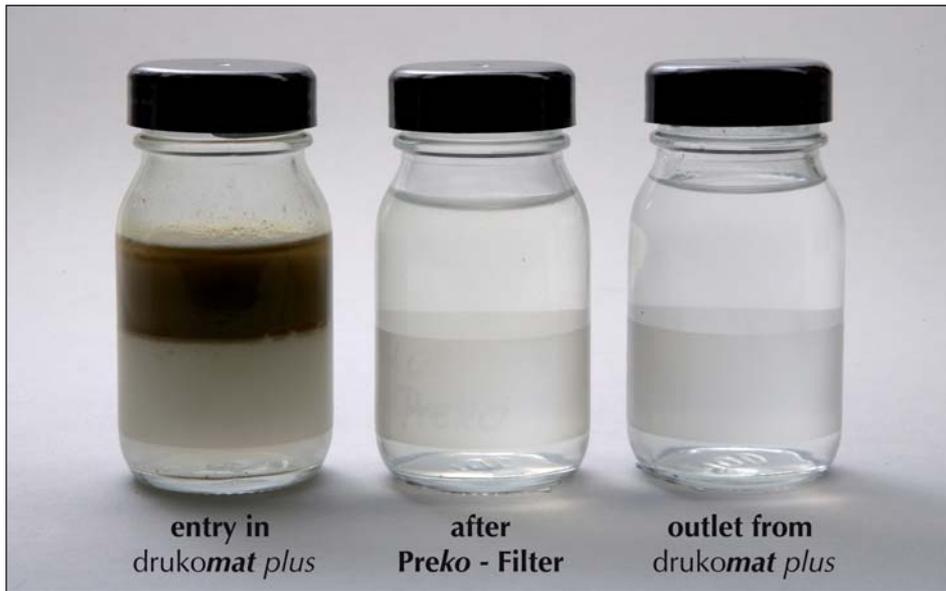


What has homeopathy to do with oil/water-separation from compressed air condensate ?



Dipl.Ing. H.Wortmann

At first sight a provocative question ! Homeopathy (greek) „Treat the same with same“ (similarity rule) means and was turned over by Samuel Hahnemann at the beginning of the 19th century for the first time virtually and found like this the way into sick person treatment (Medicine).

The compressed air specialist of the company Druckluft Wortmann GmbH, that already 1973 made the first oil/water-separators for compressed air condensate and to be regarded as an inventor of this system in the branch - it was liked in attempts already since many years that one can remove oil from water with oil surely and efficiently. Onto the second look above statement isn't so provocative at all. The similarity rule is applied and same is treated by same !

www.drukomat.de
www.wortmann-druckluft.de

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The first findings lay back many years and needed many experiences, various test models and attempts in the practice until a practicable system is made from first idea.

the *drukomat plus* is the solution !

Through the combination of collecting surface and a specific, so called „Preko-streamingfilter“ it is achieved that the fine oil droplets in the condensate finely distributed are attached to available oil and forced to swim up by the direction of flow in the Prekofilter.

The Preko-streamingfilter turned out as highly efficient and is even „self-cleaning“ through its construction and the flow direction of the condensate.

The separating-behavior of the combination of collecting surface and Prekofilter is so convincing that the downstream end stage filter must restrain only still the very last residues. Considerably longer time of filter use and a better efficiency, even at a higher capacity, are reached.

Attempts with different oils and filter materials for the end stage led to a novel wrap-filter, that towards the charcoal filter, even in the case of high oil loading !

In connection with the Prekofilter the *drukomat plus* is virtually overflow-secure!

This new „homeopathy separation system“ will revolutionize the separator market, Dipl.Ing. H.Wortmann, manager of Druckluft Wortmann, convinces. **The technical and economical advantages lie on the hand:**

The dissolved oil in the condensate is concentrated by described construction so intensely, that it swims up and can be carried off as liquid oil. The condensate is after the Prekofilter - even at emulsified oils - so far cleaned, that the end stage filter is only still needed as a last security filter.

Considerably longer filter use is reached and reduces the resources, maintenance and disposal costs ! With problematic condensates and high condensate amounts the advantages of this new system become quickly clear.

Like the *drukomat* / Wortmann customers know, the complete system is modular designed and build up practically. Only with two filter sizes a compressor capacity from 8 to 120 m³/min is covered.

A double walled version is also available ! For the level control a battery operated alarm system with possibility for remote monitoring is demanded.

