

**Kaeser 'Aquamat' for optimised compressed air condensate treatment**

## **Reliable, Efficient Reliable, Efficient and Environmentally-Friendly**

**Condensate is an unavoidable result of air compression. It is a chemically aggressive fluid that mainly consists of water, but also contains oil and dirt particles. Compressed air condensate must therefore be treated in accordance with water resource legislation to achieve prescribed safety levels before it can be disposed of in the waste water system. Optimised 'Aquamat' separation systems do precisely that and provide an exceptionally reliable and cost-effective solution.**

The most cost-effective method of condensate treatment for compressed air users is to carry out in-house processing. The latest generation of 'Aquamat' models, the CF 9, 19, 38 and 75, are specifically designed with this need in mind, as they can help save up to 90% of the costs that would otherwise be incurred for complete condensate disposal by a specialist company. Moreover, the highly versatile Aquamat 'CF' series models are the perfect universal choice, as they can be used both for mineral and synthetic oils as well for condensate from rotary screw and reciprocating compressors alike. All 'Aquamat' models are tested and certified by the Berlin Civil Engineering Institute (DIBt) and use the very latest in condensate treatment technology. Compressed air system operators can therefore be safe in the knowledge that their condensate separation system will provide optimum performance and reliability in accordance with even the most stringent legal requirements.

Ensuring maximum dependability and effectiveness, the separation unit works as follows: Under pressure, the oil-containing condensate passes smoothly into the Aquamat's separation container via an expansion chamber; larger contaminant particles are held back by the removable particle-catcher. In the separation container, oil rises to the top of the condensate through gravitational separation and then flows into the overflow-safe oil container. The partially cleaned condensate then flows through to the filter stage where a pre-filter binds the remaining oil particles within its material. Condensate flows through the filter from the inside outwards in order to achieve optimum separation results; the main filter cartridge captures any remaining oil. All that remains is clean water which is then drained from the Aquamat via a water outlet. As a result, only a small proportion of the original volume requires specialist disposal, e.g. the separated oil and used filter cartridges.

The newly designed expansion chamber and overflow-safe oil container significantly enhance reliability, whilst the premium filter material (better than conventional activated charcoal) boosts performance and extends service intervals. The unique cartridge technology also simplifies maintenance and servicing work. According to requirement (compressor type, oil used and climate zone), new 'Aquamat' models are available for air deliveries of up to 45 m<sup>3</sup>/min.

**File: d-aquamat-en**

3.036 Keystrokes – Free for publication, Copy appreciated

---



The new 'Aquamat' separation systems provide highly reliable and cost-effective compressed air condensate treatment. They can help save up to 90% of the costs that would otherwise be incurred for complete condensate disposal by a specialist company.