

News Letter 2023-1

E Oil separation

E Filtration

E Magnetic separation

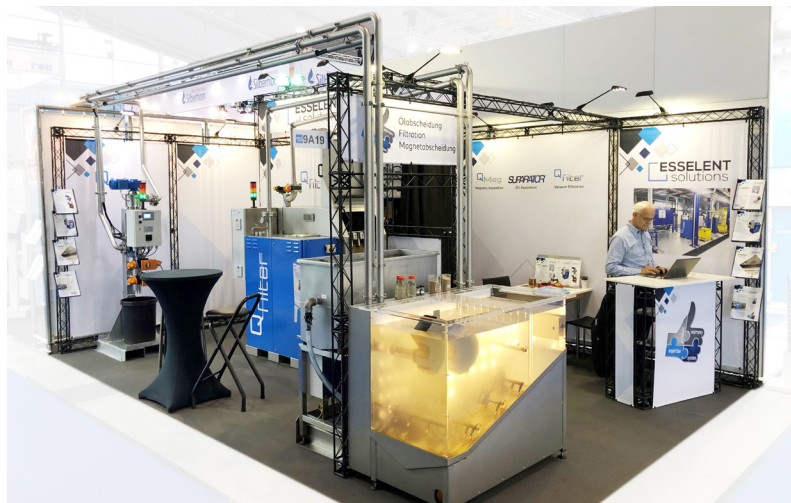
Items:

- Contamination Control, in full operation at parts2clean.
- Six Pillars
- Great savings on energy consumption
- Q-Filter® Active Vacuum Belt Filter

Contamination control, in full operation at parts2clean. Seeing is believing!!

This year we will again be present at the parts2clean Trade Fair. Come and see the LIVE demonstration of Suparator® Dynamic Oil Separator, Q-Filter® Active Vacuum Band Filter and Q-Mag® Automatic Magnetic Separator. Not just as static separate pieces of equipment but in full operation, in one single closed loop, separating real dirt and oil.

At our booth we mix dirt, metal particles and oil with water in a plexiglass tank and then separate it again. This way you can see in practice how the dirt dissolves in the water and how clean water returns to the tank. In the same way as in a pre-treatment stage or in parts cleaning, as oil and dirt are washed from the products and mixed



with the cleaner. Our systems separate it again. What it brings you is constant cleaning quality and minimal cost.

See it work! At parts2clean
Stuttgart 26-28 September 2023
Hall 10 – Booth A38

parts2clean

Performance Warranty and Livelong Free Support on all our solutions!

How many companies do you know that offer that? In any case... we do!

Based on our 30 years of experience within the metal industry we have designed our equipment and solutions ourselves. Our expertise in the field of processes and requirements, combined with our high-end equipment and our advice on the integration in your process, provide all the necessary components for the most efficient and sustainable solutions one can imagine.

And we take responsibility for the right operation of your equipment during its entire lifetime. We are so convinced of the operation, reliability and effectiveness

of our solutions that we want you to benefit from that. This confidence is reflected in two unique benefits, which are incorporated in our delivery :

- **Performance warranty.** In case you are not satisfied with the results, we will analyze the situation and solve it. And if we can't solve it remotely, we will come to you to solve it. Wherever you are based!
- **Lifelong free support.** If you have questions or problems, you can contact our Support Desk at any time, for as long as the equipment is operational. That means also after 15 years. Simply scan the QR-code on the machine and get the support you need.



Need support?



Scan code!

You know, we don't actually sell products, we sell expertise. And this ensures that we can deliver, with great confidence, the most efficient solution for your application.

Cost reduction in practice:

Bath maintenance can no longer be viewed separately from sustainability.

Within the industry it is a permanent challenge to stay up-to-date with technology, for example in order to improve quality and to reduce and control costs. Today, responsibility for the environment is getting more and more important, it concerns all of us.

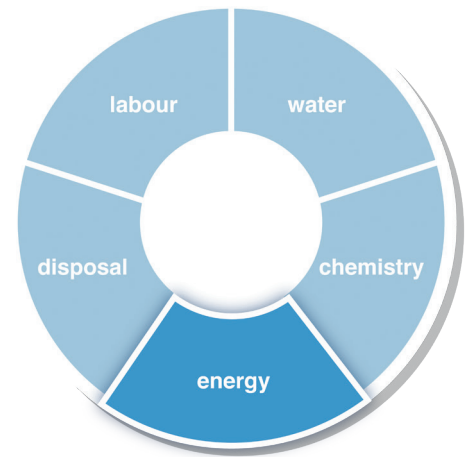
A well-known German supplier of steering systems for the automotive industry bought 4 Suparator® systems type 86 and monitored them for a year. The result is amazing... In one year €100,000 was saved on 4 production lines, of which €60,000 in energy and €10,000 thanks to an increase in bath life.

So we are talking about an annual saving of 285,000 kWh! Just think of the positive impact this has on your carbon footprint and on the environment.

This was possible because with a Suparator® system, the oil content was so low and this low level could also be controlled. This allowed to use a different cleaning chemistry, as it was possible to lower the cleaning temperature from 70°C to 60°C.

The other savings and results at a glance:

- Improvement of the washing and rinsing medium quality (reduction of the oil content)
- Increase in bath life from 3-4 weeks to around 8-9 weeks, resulting in:
 - Reduction of media consumption, expenses for external services and disposal costs
 - Increase in system availability
- Reduction of the additional cleaning effort by maintenance staff.
- Thanks to the savings, the investment pays for itself within a year.



All 5 cost items within a cleaning process.

We can help you in taking your responsibility, because we can offer the solution: the combination of cost reduction and reduction of your environmental footprint.

Q-Filter® Active Vacuum Belt Filter; high performance – low maintenance

One of our six pillars is the Q-Filter®, the solution for filtering aqueous cleaners and valuable media such as cooling emulsions.

Q-Filter® is a fully automatic active vacuum filtration system, has a 5 µm to 1 µm filter efficiency and works with a underpressure down to 200 mbar. This ensures optimal performance and optimal use of filter cloth.

What makes Q-Filter® unique is the 'self-learning control system'.

A very important part of the Q-Filter® and essential for the unique performance of the system is the specially developed Q-Filter®-CTRL software. In addition to the usual on/off control logic, this software incorporates specially developed algorithms which continually calculate and optimize the system parameters, based on accumulated historic data. This warrants a very high efficiency (< 5 µm filtration) with a very low filter cloth consumption and really distinguishes Q-Filter® from all other band filters.



Besides its high-performance, Q-Filter® also distinguishes itself by low maintenance cost. Maintenance and repair can be executed during production and wear parts can be easily replaced with only limited disassembly.

For example, the wheels that provide the sealing and the transport of filter cloth, are made up of segments. They can be

replaced without dismantling the entire wheel.

Over 170 systems have been sold worldwide, primarily for pre-treatment in (automotive) paint lines and parts cleaning. Esselent Solutions and Q-Filter® form a combination of expertise on applications and proven technology, successfully applied in critical processes.

Esselent Solutions specializes in solutions to separate both oil and dirt from aqueous media.

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