



# Insights

Intelligent concepts for process water, purified water and loop technology



*„Our staff are also your staff;  
ultimately we are all working together  
towards your success.“*

Erhard Burggraf and Peter Leyendecker, Managing Directors



## Using water intelligently

### Identifying processes - finding solutions

For many industries water is one of the most costly and important raw materials. Water is used to perform a variety of tasks: it cleans, is needed for the production process, for cooling, steam generation or for humidifying the air.

Although very high standards are set for the quality of potable water, it is frequently unsuitable for use in industrial processes on account of the active substances contained in it, such as minerals. Moreover water is far too precious to discharge as wastewater having been used only once.

When we talk of "intelligent use" of water we mean the best combination for your particular intended use from both an ecological and economic aspect. Thanks to targeted savings of water and energy not only is the profitability of your business fundamentally increased, but it also eases the strain on our environment.

EnviroFALK's solutions mean quality from a single source: starting with the water analysis through to plant design and construction and ending with service. Since our company was founded in 1989 we have specialised in effective resource-saving systems for different applications.

Our employees regularly attend training and professional development programmes which ensure that the standard of technical expertise at EnviroFALK is maintained for both the present and the future. Vocational training for young people in various commercial and technical professions is of crucial importance to us.

As a part of EnviroWorld, EnviroFALK is able to extend its product portfolio with wastewater concepts for different industrial branches. What this means for our customers is an even higher level of service from a single source. We are happy to pass on our knowledge: we offer our customers coaching seminars for specific sectors in our modern training centre.







## Pure surfaces

Cleaning metal or glass products carefully is an essential issue in manufacturing. In these various processes production residues need to be removed from the products so they can dry without smears. Our application consultants, engineers and process technicians draw up concepts for treatment of process and rinse water, which are specifically tailored to meet the individual requirement. With EnviroFALK technology our customers achieve longer service life times for purifying baths while maintaining a constant standard of cleaning. The costs for fresh and waste water are significantly reduced as are those for cleaners and disposal of active baths. This means the investment in solutions from EnviroFALK yields double the rewards: greater reliability for production while simultaneously lowering costs.

AQUAmeditech systems are tailored to meet the specific requirements of medical technology: PP or PVDF pipework that supports strong water currents and that is welded using IR techniques prevents contamination. Our storage tanks are manufactured from stainless steel and can be emptied entirely. Furthermore, the special resin pool used in the ion exchangers and adapted according to the industrial application in question ensures the pureness of quality required in medical technology. The resins used in the ion exchangers are also disinfected and vacuum-packed.

Solar industry

Flat glass industry

Optical industry

Medical technology


Metal-working industry

*„Our customers often know what they want but not always exactly what they need.“*

Christoph Gilles, application consultant for flat glass/solar industry





A man in a white striped shirt and grey tie is sitting on a balcony railing, looking towards the camera with a slight smile. The background shows a window and some greenery.

*„It’s fun helping our  
customers to achieve a real  
competitive edge!“*

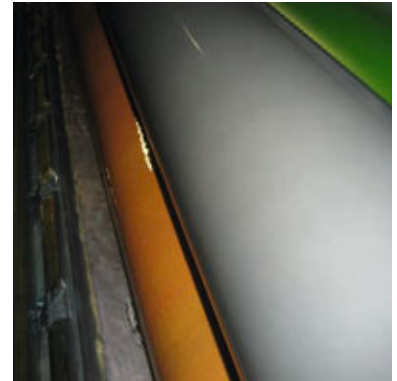
Ulrich Berief, application consultant  
for the graphics industry

# Water for printing

In the printing industry water is used for damping solutions in offset printing and for humidifying the air. Potable water is unsuitable for either of these applications due to its high mineral content.

EnviroFALK's water treatment solutions are tailored to meet system requirements, form the basis for a constant ink/water balance and thus afford a consistent print quality. Possible damage to printing machinery arising from water mineral content is prevented (scale for example).

Healthy working conditions are ensured by our water treatment specifically for air humidifying. The need for consumable supplies like filter pads for instance, additives for damping solutions and cleaning products is reduced thanks to the use of EnviroFALK damping solution filtration units.





## Squeaky cleanness and excellent flavour

Water plays an important role in the catering trade. It is a main ingredient in foods and beverages and is used for washing and cooking.

Hence water has a considerable effect on the flavour and appearance of foods and beverages. EnviroFALK units clean and purify the water to remove flavour adulterating and altering substances and thus ensuring pure enjoyment without any after taste.

When crockery and glasses are cloudy and smeared after being washed or if there are technical malfunctions due to calcification and scale this is attributed to minerals in the water.

EnviroFALK technology prevents calcification and expensive repairs, ensures that crockery is squeaky clean and that glasses and cutlery are without smears.



*„EnviroFALK technology makes a major contribution to the quality of our customers' products – this is a commitment for us!“*

Norbert Leukel, housing construction





## Full steam

Water and steam play a key role in production in many different branches of industry, e.g. for heating, as process steam or for generating electricity. Modern, efficient boiler plants need high-grade feed water of consistent quality. On the one hand, it is important to avoid scale deposits and corrosion. On the other, low-salt boiler feed water restricts desalting losses to a minimum, thus helping to improve profitability while simultaneously protecting the environment.

Our modular, intelligent concepts provide the foundation for an equipment layout that is precisely tailored to the design and pressure class of the boiler plant in accordance with specific requirements, relevant directives and, of course, the water quality on site. The outcome: optimally efficient and reliable boiler plants.

Cooling circuits need large amounts of water for recirculation and evaporation. In order to prevent corrosion or deposits and comply with water chemistry and microbiological requirements, water treatment and conditioning must be exactly aligned to demand in conformity with VDI 6022 and 3803. Our intelligent EnviroFALK solutions protect your system and guarantee optimal operation, making sure your cooling system works efficiently and reliably at all times.



*„Our customers benefit from our many years of expertise and our specialisation in particular sectors.“*

Susanne Pfendesack, technical order processing







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