



What is the effect of changing a chemical ingredient? What would happen if we change or add something at that specific spot? Know-how. Skill. Specialisation. Process optimization can start only if all is right with the various energy flows of chemistry. With reduced energy consumption as a resounding result.

BRONSWERK[®] HEAT TRANSFER

Dynamic Heat Exchange Solutions

Chemical

Heat Exchange in Process Optimization



“ Chemistry is fascinating. Like top cuisine in a Michelin restaurant. It is frying, baking, cooling and boiling. We make sure that everything will be prepared in the most efficient and sustainable way. The chefs of chemistry. That name would suit us perfectly. ”

Mr. H.G. Schaëfer – Chairman of the Board and CEO of Bronswerk



Converting compounds into other compounds. Chemical reactions take place constantly and everywhere around us. Our challenge is to create a connection between chemistry and sustainability. An obstacle we can readily overcome with our vast know-how and innovative designs.



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Bronswerk solves heat transfer and fluid-flow problems. We optimise existing processes and develop innovative products. This allows us to offer our clients the most efficient and advantageous solutions. Guaranteed to be sustainable and energy-efficient.

Bronswerk is to be found in the midst of global action. Both literally and figuratively. Our location in Nijkerk is ideally situated. Easily accessible by car and public transport. Our office breathes innovation. A high-tech creative environment, both for you and for ourselves. An inspiring environment that produces the best possible solutions.

Chemistry and heat. These could almost be synonyms. Capturing excess heat in one place and using it somewhere else. A principle that Bronswerk has down to the smallest details. An appealing solution with a fantastic result. Reduced costs of ownership. Lower CO₂ emissions. Lower energy consumption. Good for you and good for our planet. Our process optimization designs and innovative systems will prove highly lucrative for you, in both the short and the long term. Just look at Global Warming; rising ambient temperatures require increasingly higher capacities. Space that is not abundant. By applying our Whizz-Wheel[®], we can create this space. Now and in the distant future!

Chemistry and Sustainability an irresistible Bond



- Less weight.**
- Less maintenance.**
- Lower energy consumption.**
- Less noise.**
- Increased heat transfer.**
- More chemistry.**



- **Compact Header Design**
Headers from solid material. Resistant to 1000 Bar.
Small in size, saving 50% in weight, easy maintenance and a reduction of the risks.



- **EM Baffle HEX**
Heat exchanger in which the medium flows parallel to pipes with controlled turbulence. Optimal heat transfer.
No vibrations. No stagnant zones, so no fouling.



- **Klarex®**
Heat exchanger with no dirt being deposited by entrained hard particles. Optimal heat transfer.
Klarex® works for many years with no maintenance.



- **Whizz-Wheel®**
High efficient cooling. 4 to 6 dB(A) quieter. Many times more silent than conventional fans. The most efficient fan system due to the lowest energy consumption.
More than 50% energy saving.

“ Chemistry requires optimal process control. Bronswerk allows process-optimized designs to react with precision manufacturing according to required specifications. ”

Koppe van der Meer – Senior Sales Engineer Bronswerk

Process optimization. Energy-efficient equipment. The foundation for sustainable enterprise. The basis for chemistry. Every day we address the issue of making processes more silent, more efficient and safer. Safety is crucial in the chemical industry. That is why it is such an important aspect of our designs. This also applies to our Compact Header. A design in solid material, making welding almost redundant. This ensures a design with an extremely high degree of safety. After all, the best weld is still no weld.

Breakthrough process and materials science

Due to the high reactivity of different chemical processes, the chemical industry is inextricably linked to exotic materials. Materials that are often difficult to machine, but that are necessary to guarantee safety. Working with exotic materials; working in the chemical industry. This can only be achieved with the right know-how and skills. And with an awareness of anticipated and unforeseen risks. Our breakthrough process and materials know-how is essential. It contributes to a safe and sustainable solution and makes Bronswerk a reliable partner for you.

Less maintenance, increased heat transfer

Process optimization is an important step towards lower energy consumption. In chemistry, many crossing energy flow paths occur. Using pinch-analysis, we take optimal energy consumption as the basis for our design. We achieve this by calculating thermodynamically feasible energy targets. Our innovative heat exchangers do the rest. Heat exchangers like Klarex®. An innovative, non-fouling design that does not require any maintenance. Less downtime means lower costs. Increased heat transfer. More chemistry.