



The conditioning of air. Everyday source comprised of nitrogen, oxygen and argon with water vapor. Without air, no life, without air, no process. Balanced composition with its own character. Warm, cold, dry or wet. Exactly the conditions needed for optimum performance.

# BRONSWERK<sup>®</sup> HEAT TRANSFER

Dynamic Heat Exchange Solutions

## Air and Process Gas Treatment Process Optimisation that breathes Innovation



“Yes is my answer, what’s your question?” Now that is typical for our organisation. Not only is our know-how extremely extensive, we actually make this know-how applicable. That’s why we can always provide an optimal answer to our clients’ questions.”

Frans Hermkens – Senior Sales Manager Bronswerk



Devising innovative solutions by understanding the entire process. Giving optimum answers by understanding your questions as no one can. Improving processes by taking your problems as starting point. From know-how to application.



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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.

You want air or process gas with certain properties. Dry or humid, heated or cooled, generation of vacuum, low pressure or high pressure. Filtered. We develop systems that produce exactly what you need. Clever solutions, for instance, that make use of a single system for cooling, heating and separating. We understand your questions and we give you practical, expert answers. Optimisation by taking inventory of your wishes. Our point of departure? Improvement of the complete process, resulting in decreased energy consumption, lower noise levels, decreased CO<sub>2</sub> emissions and lower maintenance costs. This emphasises your ambition to execute the entrepreneurial activities to benefit society.

**Air treatment.  
Process gas treatment.  
from Useful to Necessary**

# Distinctive capacity in **Conditioning** and **Composition**



- **Drying**
- **Humidifying**
- **Heating**
- **Cooling**
- **Compression**
- **Expansion**
- **Cleaning**
- **Separating**

Process optimisation. New systems, other installations. You determine what you need. Processes also need to meet strict national and international codes and agreements, so: what does the customer want and what does the country want? That is what our service is based on. Bronswerk is certified to work in every country in the world, according to such standards as Russia's GOST R and Kazakhstan's GOST K, China's SELO Pressure Vessel and ASME's U stamp. Our distinguishing capacity.

### **Conditions of air and process gas**

Air is air and gas is gas, right? Nothing could be further from the truth. Different processes and applications demand air or process gas with particular conditions. In order to produce dry air, for the food industry, for example, we developed an air treatment system with various components: a centrifugal fan, a cooler and a heater. The process is the starting point of our design; we never use a standard design. Optimum sustainability within reach.

### **Cryogenic Air Separation**

Air. A mixture of nitrogen, oxygen, water vapor and argon. Industry needs these substances in their pure form. Our solution is Cryogenic Air Separation: making different gases from gas mixtures. We use our extensive thermal and mechanical design know-how in various cryogenic applications to develop installations that optimally control this process of extreme cold.

*“ Radiax® Hybrid Machinery is an unprecedented innovation that makes previously impossible applications possible. ”*

Chris v.d. Ree - Petrogas