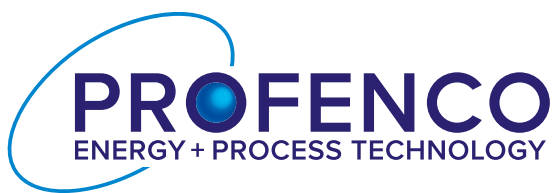




Working together on sustainable solutions



Consultancy
Engineering
Project management





Optimisation of production processes with a strong focus on sustainability, cost and energy savings. This is what we do best! Quality and innovation are key. Combining knowledge and experience in heating and cooling technology helps our relationships move forward.



Since 2009, Profenco has been leading the way in providing a professional approach to energy and process-related issues. Our aim is to be a respected and reliable partner for our customers and a pleasant and trustworthy employer for our employees. Our values are respect, responsibility and knowledge.

Profenco is your partner when you need a customised solution to optimise your energy processes. For cost savings and faster return on your investment.





Blow-off condenser

A large amount of heat is released into the environment in the form of flash steam during the steam peeling process. Profenco's blow-off condenser is designed to capture this flash steam and condense it during the entire peeling cycle.

Condensing the flash steam removes most of the odour particles and releases a lot of energy. The heat released is transferred to a closed hot water circuit via a heat exchanger. The previously clearly visible steam plume is greatly reduced and becomes virtually invisible if sufficient heat can be transferred to the hot water circuit.

In addition to the condenser, Profenco can also take care of all the necessary components around the condenser, such as pumps and fittings. Of course, we can also manage the entire process for you, where we design, supply and install the entire system.



*Blow-off condenser
with integrated
condensation tank.*



Baking fume condenser

Baking fume condensers are used to recover energy from baking processes. Baking fumes typically have a temperature of 110-120°C and contain a significant amount of water vapour due to evaporation of water from the product.

By condensing the water vapour in a baking fume condenser, a significant amount of energy can be recovered and transferred to a hot water circuit. The recovered energy can then be re-used in other processes. The condenser required is calculated on a customer-specific basis.

In addition to the condenser, Profenco can also take care of all the necessary components around the condenser, such as extraction fans, condensation tank, pumps and fittings. Of course, we can also manage the entire process for you, where we design, supply and install the entire system.



Two-stage baking fume condenser.



Energy transport systems

Energy transport systems are networks of pipes, pumps, heat exchangers, valves and other components designed to transport energy from one location to another.

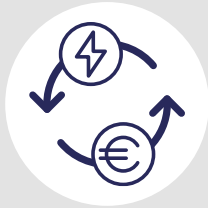
Whether for water, steam or other transport media, Profenco regularly designs, builds and installs these types of systems. The main components such as pumps, heat exchangers, (control) valves and measuring and control equipment are often mounted on a stainless steel frame (skid construction).

By implementing flow, pressure and temperature measurement, we ensure that energy yields and functional operation can be closely monitored. This enables operators to intervene quickly in the event of deviations, minimising costly (energy) losses.



Water circulation system with expansion device.

All the details are worked out in close collaboration with the customer.



Energy saving

At Profenco, energy saving means reducing energy consumption without compromising product quality. Saving energy is important for the environment and can also bring significant financial benefits.

When it comes to energy use, prevention is better than cure. Profenco will always consider whether processes can be made to use less energy by reducing losses. However, these losses are not always avoidable and our challenge is to recover them as effectively and efficiently as possible and reuse them elsewhere in the process.

We take a helicopter view approach. Energy that cannot be re-used directly in the line can often be put to good use elsewhere in the plant.



Thermal design

We carry out thermal calculations for several OEMs, focusing on the machines they produce. These calculations are essential for optimising machine performance and efficiency under different conditions. This includes calculations for blanching, cooking, cooling, freezing and drying products.

Based on these thermal calculations, we provide the design specifications for the components essential for an optimal process, such as heat exchangers, fans and pumps. We also help to think through the process engineering aspects of the machines.

We can also carry out this work for an end customer if, for example, an existing installation needs to be modified or extended.



Consultancy Engineering Project management

We not only provide solutions for process optimisation, integration and quality improvement of technical installations, we also take care of the project management. On request, we can take care of transport, installation and commissioning.

Transparency is key and we provide updates throughout the process to keep you informed. From design to commissioning, we are here to help!

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