

HIGH GRAVITY BREWING



PENTAIR - PROCESS SOLUTIONS THAT TASTE GREAT!

CHALLENGE

High Gravity Brewing can boost a brewery's capacity considerably, without having to invest in brewing house, tank or filter capacity. The idea here is to make and ferment worts with a high original wort content. A carbonating and mixing unit is then used to set the parameters desired, such as original wort, CO₂ and alcohol content shortly before bottling.

The brewing house also needs less water to make the wort, so less energy is needed for heating, boiling and cooling purposes.

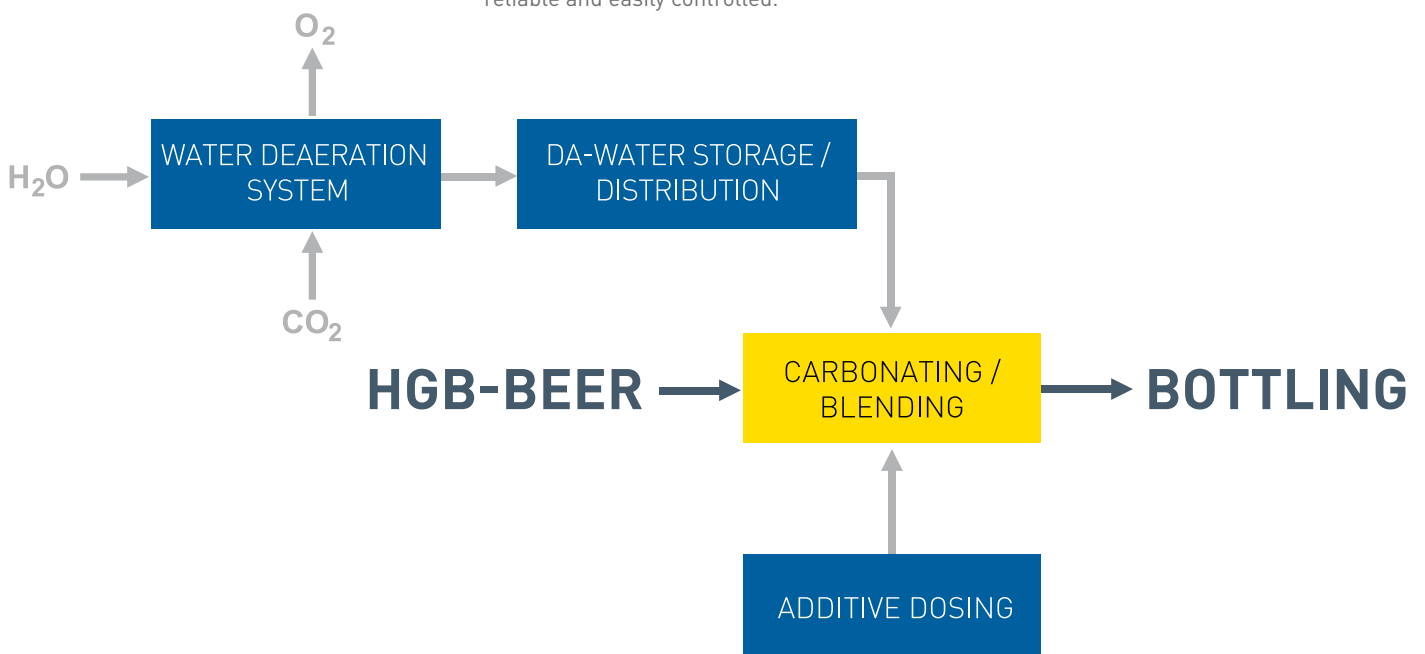
SOLUTION

Pentair's HGB solution in its maximum configuration consists of:

- Water deaerator
- DA water storage and distribution
- Carbonating and Blending
- Additive Dosing

Pentair Südmo and Pentair Haffmans together offer these compact systems both on a standalone basis or as a complete solution, including all components required.

Combined with an integrated automation solution, the process becomes more reliable and easily controlled.



Pentair Südmo

Pentair Haffmans

WATER DEAERATION
SYSTEM

CARBONATING /
BLENDING

DA-WATER STORAGE /
DISTRIBUTION

ADDITIVE DOSING

HGB



WATER DEAERATION SYSTEM



DA-WATER
STORAGE/DISTRIBUTION SYSTEM



CARBONATING/BLENDING SYSTEM



ADDITIVE DOSING SYSTEM

FACTORY-MANUFACTURED SYSTEMS FOR HGB PROCESS SOLUTIONS

BENEFITS

- All process stages combined in one unit
- Optimum process and product monitoring
- Plug & play interface
- Reduced costs while increasing productivity
- Total one-stop concept
- Integrated fully automatic formula management
- Fully automatic CIP capable

DO MORE WITH LESS

Sustainability means acting intelligently and efficiently while saving and when possible reusing resources. Pentair's 'Efficient Performance Technology' philosophy promotes product developments and total solutions that are reflected in measurably improved performance and efficiency.

Developing cleaner technologies is exciting work, but is only worthwhile if the results can also be used appropriately in customers' systems.

Many breweries have already implemented the sustainable brewery concept and 'do more with less' today.



ABOUT PENTAIR & SÜDMO

Your manufacturing process is subject to the highest requirements regarding hygiene, cleaning possibilities and cost-effectiveness.

In addition, international standards for the food, beverage, pharmaceutical, chemical, and cosmetics industries require high quality components, which provide the best production results.

To meet these challenges, in addition to our full line of sanitary flow components, Pentair Südmo provides application expertise and guidelines for the most efficient use of our products through our process engineering and field services.

Every day, our experts provide solutions that enable hygienic and aseptic processors to establish automated routings with absolute confidence.

At Pentair Südmo we do more than design and manufacture valves. We are dedicated to providing our customers with the right technology for each application.

As the need for safety and sustainability in the food, beverage and pharmaceutical markets increases, we continue to respond with advanced products and services. Whether working with a U.S. dairy plant that must meet strict regulations or developing a total solution for an international brewery we have the solution that fits.

Our capabilities include process engineering, service management, and extensive training opportunities, as well as advanced water and wastewater technologies. To us success comes when our customers experience optimized plant performance and reduced operating costs.

Founded in 1954, specifically to supply valves and components to the dairy industry in Germany, Pentair Südmo has a long history in fluid processing.

We continue to build on this heritage of innovation at our R&D and manufacturing facility in Riesbürg, Germany. Our components that include stainless steel single seat, mix proof and specialty valves, and compact systems meet highest hygienic and aseptic standards.

Today, we are part of Pentair, a global diversified industrial company headquartered in Minneapolis, Minnesota. With facilities around the world, Pentair employs more than 30,000 people.



FOOD & BEVERAGE

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