

## Maximum efficiency for pure enjoyment



### FAMIX®

FAMIX-Maschinenbau GmbH develops, plans and markets production systems for the beverage industry. The family business established in 1958 is headquartered in Pulheim, Germany, and one of the world's leading manufacturers of beverage machines.



The brewery in Appenzell, Switzerland, was taken over in 1886 by the Locher family and has been producing beverages for five generations now. The archetypal Swiss family business with its 90 employees stands for true Appenzell tradition with its distinctive character.

Renowned plant engineer, FAMIX GmbH, developed and built a new production facility for Brauerei Locher AG in Appenzell, a Swiss brewery known for its popular Appenzell beers including “Quöllfrisch” and many other varieties. To be able to meet Brauerei Locher AG's specifications, FAMIX decided to use KSB pumps for this project. The decisive factors for collaborating with KSB included our competent on-site consultancy, years of experience in this field, and individual solutions tailored to the specified requirements.

One task focussed on Brauerei Locher AG's need to produce both non-alcoholic (soft drinks) and beer mixes using the same system. Since these two are highly sensitive types of beverage the entire plant had to be designed to ensure, in particular, gentle fluid handling and meeting the rules of hygienic design in order to prevent microbiological contamination. As a matter of course, this does not pose any problem for KSB's Vitacast which is perfectly suitable for sterile processes thanks to its EHEDG-conforming design, and which can be cleaned without leaving any residues. Another special feature of the system is that the mixed beverages are produced in-line, i.e. inside the unit. To do so the water is degassed, deoxygenated and then mixed with the required components to make the beverage. As mixing takes place in line, it is not necessary to provide a pressure tank. The process also places certain requirements on the pumps, which in this special case include that the system only has a very low

NPSH and the water has to be pumped from a tank under vacuum. Transferring fluid from a tank under vacuum poses a challenge to the pump's shaft seal as concerns reliable sealing and dry running, to which the Vitacast employed, however, rises with ease. This pump also stands out with highest efficiencies. „Our decision was in favour of KSB's Vita pumps because they offer a long service life and are extremely service-friendly. In addition, Vitacast's mechanical seal is perfectly suitable to pump fluid from our vacuum tank,“ said Herbert Falterbaum, managing director of FAMIX GmbH. Another 10 Etachrom BC pumps in close-coupled design provide reliable service in the bottle rinsing unit of Brauerei Locher AG.

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| Scope of supply  | Technical data   |          |
|------------------|------------------|----------|
|                  | Flow rate [m³/h] | Head [m] |
| 5x Vitacast-Bloc |                  |          |
| VAB 40-260/1502  | 12               | 100      |
| VAB 40-175/0402  | 12               | 42       |
| VAB 40-175/0402  | 15               | 30       |
| VAB 32-210/0402  | 1                | 64       |
| VAB 40-260/1102  | 10               | 90       |
| 10x Etachrom BC  |                  |          |

**Plant engineer:** FAMIX-Maschinenbau GmbH  
**End user:** Brauerei Locher AG  
**Commissioning:** February 2014



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