Control systems
For Beer with Character
Control systems
The intelligent way to brew

There are many reasons for using control technology in a brewery. Whether it be to reduce working hours, or to automate the mashing-in process, or even to use raw materials and systems technology with the best possible efficiency in order to achieve a fully automated production facility with consistently high product quality. With the automation systems from BrauKon you are sure to find the optimal solution for every application.

Overview control systems

**BrauKon BrauControl**
The professional process brewery automation system is a reliable and secure investment and allows for programming independence.

**BrauKon BrauControl Pro**
The user-friendly operation of BrauControl ported to the process control system ProLeit Plant iT/brewmaxx V9.

**BrauKon TControl**
The semi-automatic control concept offers an economic solution for the partial steps mashing, lautering and wort boiling.

**BrauKon TControl Pro**
The user-friendly control assumes the entire brewhouse work of a two-vessel brewhouse – from mashing-in up to casting.
**BrauKon BrauControl**

*Process automation for the brewing and beverage industry*

BrauKon BrauControl is a process automation solution for the entire brewery production process – from the malt intake through to the bright beer tank and including the CIP unit. A weekly schedule allows the brew cycle to be pre-adjusted; a brewing log documents the brew progression.

**Flexible and reliable**

Decoction mashing methods are just as possible as is infusion mashing with any number of rests. In the lauter tun, a fuzzy logic controller takes over the lautering sequence and independently decides on the raking machine height, pump speed and sparging process. The lauter wort heating, start of boiling and boiling times are freely programmable. The hop addition process can be completely automated and BrauControl also takes over the trub separation, cooling and aeration of the wort. All fermenting and storage tanks have a recipe level which can be used to control the temperature profile.

**Benefits**

- Fully automatic brewing process
- Self-optimizing fuzzy logic lautering controller
- User-friendly handling
- Simple recipe creation
- Option of installing batch tracking software
- Investment security thanks to standard Siemens components
- Remote maintenance and remote control by network connection

**Characteristics**

- High-performance Siemens industrial PC with touch panel and without rotating components
- Modular control cabinet design with Profibus connection
- Brew cycle can be configured in the weekly schedule
- Documentation in the form of a brewing log with manual input option
- Silo management with raw material balancing
- Temperature profile for the fermenting tanks on a recipe basis
- Graphical representation of the measured values with slidable time axis
- 60 recipe spaces each with 30 steps
**BrauKon BrauControl Pro**

*The extended process automation for the brewing industry*

Based on the Plant iT/brewmaxx V9 process control engineering from ProLeit, the BrauKon BrauControl Pro has been modified to the user-friendly operation of the BrauControl controller. The basis for this is mainly provided by an extended procedure management system for brewery recipes which allows for the sequential control of each step. It is also possible to save different versions of each brewing recipe.

**Monitoring through consistent traceability**

The brewing log allows the batch to be completely retraced, both the relevant brewing data and any occurrences are also documented. In addition, the Visu-Recorder records every event including mouse clicks and manual entries. This makes it possible for process sequences to be precisely analyzed, but also can be used for simple and targeted employee training. Moreover, this allows for the integration of all ProLeit products and the connection of ERP systems.

**User-friendly, independent and flexible**

**Benefits**

- Production sequence monitoring
- Can be mostly freely parameterized without professional programming knowledge
- Technologically orientated recipe control and management
- Basic production data management with Excel-based evaluation
- Data exchange with materials management systems possible
- Global 24-hour service

**Characteristics**

- Based on the ProLeit Plant iT/brewmaxx V9
- Intuitive operation using local touch-screen monitor
- Complete recording of measured values and messages
- Recordings and analyses of process sequences with Visu-Recorder
- Traceability of recipe changes through version control
- Simple planning of maintenance work using switching cycles and operating hours meters
- Including manufacturing execution system (MES)
- Can be extended throughout the entire ProLeiT brewmaxx range
- Compatible with Rockwell (Allen Bradley), Siemens and VIPA PLC hardware
BrauKon BrauControl Pro

The extended process automation for the brewing industry

User-friendly and clearly displayed

Complete process control through expanded recipe management
Plant sections can be shown and hidden freely

Report on each step of the step sequence
BrauKon TControl
**BrauKon TControl**

*The semi-automatic control concept*

Brewery processes such as mashing, lautering and wort boiling can be automated with the BrauKon TControl. The TControl regulates the agitator speed and mash temperature in the mash tun. Rests can be individually configured. During the lautering process, sparging and raking are performed automatically. Depending on the brewery equipment available, lautering is controlled based either on the quantity of first wort or the lautering time.

In the wort kettle, the TControl takes on both the heating-up process for boiling and the boiling process itself. Specific procedures such as valve switching for final mash pumping, wort casting or kettle rinsing are performed manually. The same applies to hop dosing processes, the time of which can be signaled audio-visually.

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**Automatic control for mashing, lautering and wort boiling**

**Benefits**

› Inexpensive semi-automation
› User-friendly handling
› Simple recipe creation
› Suitable for remote maintenance
› Individually adapted to suit each application

**Characteristics**

› High-performance Siemens industrial PC with 12˝ touch panel
› Controller hardware and software equipment exclusively with Siemens components
› Modular control cabinet design with Profinet connection
› Freely programmable mashing program
› Lautering speed can be adjusted with the frequency controlled pump
› Time-controlled programming for the second wort
› Free programming of the boiling and heat-retention times
› 20 recipe spaces each with 20 steps
› Parameters can be manually changed during the brewing process
BrauKon TControl Pro
BrauKon TControl Pro
User-friendly brewhouse automation

Based on the BrauKon TControl, the BrauKon TControl Pro takes on the entire brewing work of a two-vessel brewhouse – from mashing in to casting. Depending on the brewhouse equipment used, lautering is controlled either based on the first-wort quantity or the lautering time. The time for hop dosing is signaled audio-visually.

More flexibility when brewing

In the brewhouse there are 20 recipes each with 20 steps available. Manual adjustments during the brewing procedures can be either saved permanently in the recipe or can be applied only to the current brew. The temperature of the water and fermenting tanks can be controlled using a two-point controller with hysteresis. This controller, which is designed throughout with Siemens S7 equipment, is operated with a Siemens industrial PC including a 12” touch panel.

The operating system can be optionally set up with a remote maintenance feature. From a hardware viewpoint, only components from renowned, globally active companies are included.

Benefits

▶ Inexpensive brewhouse automation
▶ User-friendly handling
▶ Simple recipe creation
▶ Remote maintenance and remote operation via network connection

Characteristics

▶ High-performance Siemens industrial PC with 12” touch panel
▶ Controller hardware and software equipment exclusively with Siemens components
▶ Modular control cabinet design with Profibus connection
▶ All valves are pneumatically controllable
▶ Takes over the entire brewery work from mashing-in to casting
▶ Signals the point in time when hop dosing is required
▶ 20 recipe spaces each with 20 steps
We are BrauKon

Beer with Character is our passion

Specializing in mid-sized breweries, we deliver brewery systems of the highest quality worldwide. Our team of more than 25 master brewers and engineers build and design top-quality brewery systems that are highly flexible, economically efficient and profitable without compromising on beer quality. We guarantee the value and reliability of our systems thanks to high-quality workmanship of first class components. What drives us most, however, is our pride when your passion and our brewery systems come together and create something that is one of a kind – Beer with Character.

Outstanding beer quality

For Beer with Character – this is the motto we work by in everything we do. Thus our systems fulfill the highest technical and design standards. Our individual, ready-to-use brewery systems guarantee brewers worldwide outstanding beer quality and optimal operational procedures.

BrauKon products are innovative

Economically efficient, energy saving and innovative. At BrauKon we are more than one step ahead and pride ourselves on revolutionizing the brewery industry over and over again.

Individual solutions for your beer

BrauKon is dedicated to fulfilling your needs and committed to your beer. We create custom breweries tailored to meet your individual requirements.

Take advantage of our experience and technology for your Beer with Character.