



Bauer - Verfahrenstechnik - GmbH

SUPER - ECC[®]

Fully Automated Conversion of Native Starch



BVG - Super - ECC

BVG - Super - ECC is a continuous enzymatic process for conversion of native starch. ECC means: E=Enzyme; C=Continuous; C=Conversion. With this system all native starches may be converted to an optimized final viscosity. Degradated starches are used on size presses, metered size presses, and in coating formulations. BVG - Super - ECC utilizes a unique venturi jet system for dissolving starch slurry and obtaining an optimized molecular weight distribution of degraded starch molecules.

The catalytic hydrolysis of the native starch is controlled by an Online-Viscosimeter during the entire process. The plant runs automatically - without operator. A modem link provides for remote-servicing and troubleshooting. Via mobile phone and notebook it is possible to get a link to the plant from any given place, worldwide.



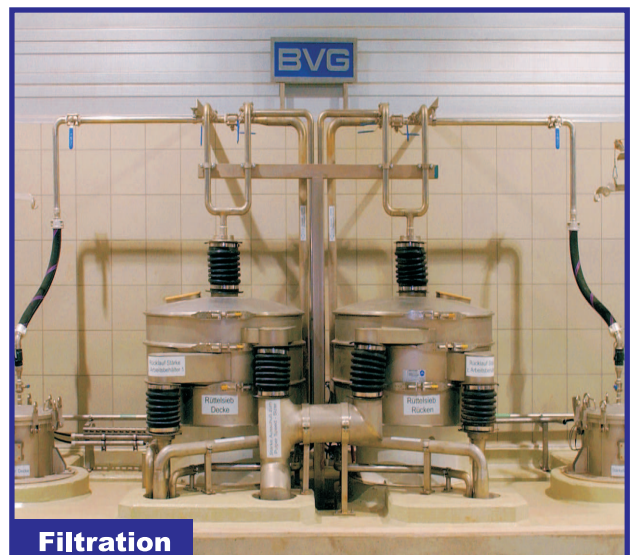
Slurry Station



Digester + Inactivation



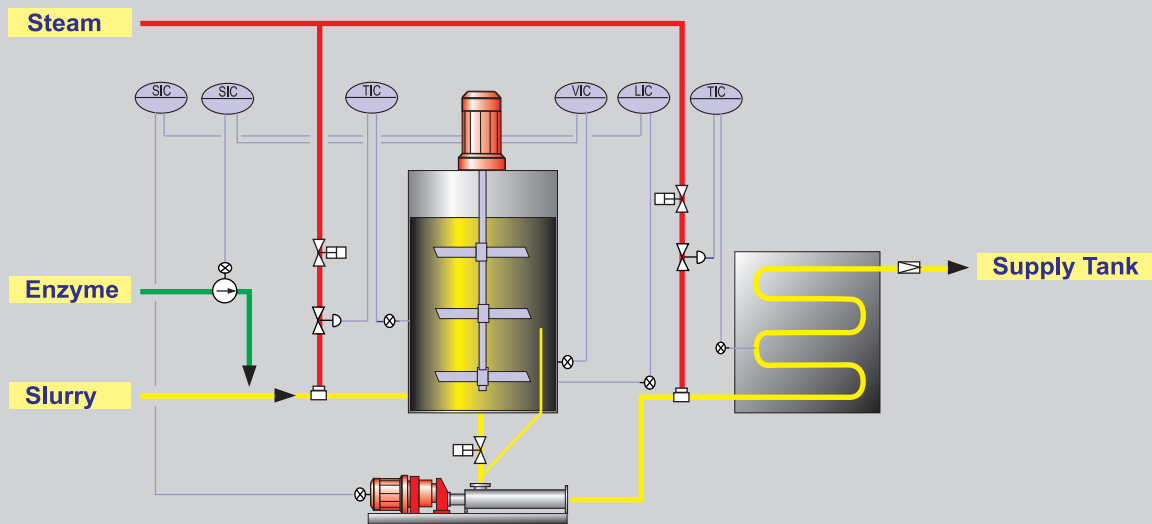
Supply Station



Filtration

BVG - Super - ECC

BVG



Flow Diagram

Technological Benefits

- Suitable for native corn, wheat, potato, and tapioka starch
- Continuous system
- Complete colloidal dissolved starch
- Catalytic hydrolysis by enzymes
- Optimized molecular weight distribution
- Constant glue concentration
- Thermal inactivation of enzymes
- Dextrose content < 1.0 %

Technical Benefits

- Compact design
- Pressure free converter
- Safe operation
- Quality construction
- High performance
- Fully automated
- Easy handling
- Advanced DCS - controller
- Remote service via modem

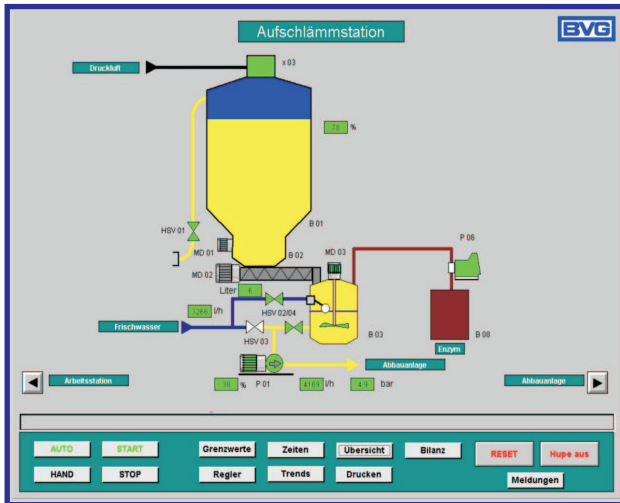
BVG References

- More than 40 plants in operation worldwide
- Performance: 3 - 100 ton starch/day

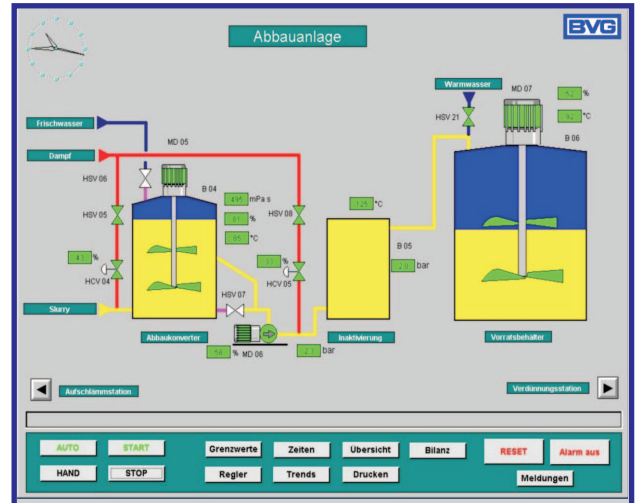
Economical Benefits

- Use of native starch
- Minimal costs for operating chemicals

Automation & Service



Monitoring Slurry Station



Monitoring Conversion



Electrical Panel



Online-Service via Cell Phone



Office and Warehouse

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