



Key Benefits

- Improvement in product consistency
- Reduction in steam usage (10 to 20%)
- Optimised boil time to increase throughput
- Unlimited brew quality recipes

Eye to the future | Window on the world

Summary

The system was designed to take automatic control of the wort boiling process so that an increase in consistency could be achieved and savings could be made in steam usage.

Brew quality recipes were created which were based on a change in specific gravity over a defined boil time period. They included acceptable underboil tolerances and, when insufficient steam had been available, reboil time periods. For any batch run, the operator could select and view the required recipe, and enter the gyle number for the batch. The system would then control the boiling process according to the recipe using a pair of linked software PID controllers, one for temperature and one for energy. At the end of the process, the results were stored into an Access database under the gyle name for later review by the management.

The system also had a facility for reminding the operator when to make hops, finings and caramel additions to the copper.

Equipment Used

- Intel based Pentium PC using
Microsoft Windows NT 4
Uninterruptible Power Supply
SCSI DAT Drive for archiving
- 1 x ADAM 4017 8 Ch A/I
- 1 x ADAM 4021 1 Ch A/O
- 1 x ADAM 4052 8 Ch D/I
- 2 x ADAM 4060 4 Ch D/O



If you would like to find out more about this application, please contact the sales office who will put you in touch with the original Systems Integrator.

Turnkey Systems - Automated Wort Boiling Control