INNSERVE ENGINEERING TEST AND DEVELOPMENT CENTRE

As part of Innserve's commitment to quality and innovation in the drinks dispense market they have recently commissioned a Test and Development Centre at their Tadcaster head office. The test centre has been developed to provide technical data on the whole spectrum of dispense equipment from cellar to above bar.

The test centre is available for brand owners, retailers and equipment manufacturers to gain valuable, independent test results on equipment. In this way OEMs, purchasers or end users can be satisfied that their choices have been robustly and independently tested and approved, thereby avoiding implementation problems. Whatever your test or development requirements the Innserve centre with its dedicated engineering resources and facilities can find and/or test the solution that meets your specific needs.

Innserve Engineering is an integral part of the BDA Technical team and is currently heavily involved in industry testing to provide low temperature cooling solutions. The test centre can test coolers to the full BFBi cooler benchmarking test standard, as well as the BDA python value procedure.

Innserve commissioned Planer PLC to build the computerised dispense and temperature software as well as supply the hardware. Planer PLC are specialists in Cryogenic freezer control and temperature monitoring within the medical industry. The system is capable of capturing all core and peripheral temperatures, flows and also the energy consumption of the cooler during the test. The system uses 29 different temperature probes spread across three different rooms as well as ten flow monitoring units, three humidity sensors and three power monitoring units. This enables Innserve to capture a variety of data from across the entire spectrum of dispense equipment.

At the heart of the computerised dispense system there is a programmable logic controller which, coupled with the Planer PLC software, enables the user to configure tests at infinite ranges of dispense amounts and test length. The dispense system enables control of up to ten different product lines, product dispense and dispense dwell times.

The Test and Development Centre comprises three areas:

Cold Storage Room

Temperature controlled (4°C-20°C) with full gas and dispense systems. The area also has liquid storage capability to a maximum of 1,150 pints for full cooler 'load' testing.

Bar Top Dispense Test Room

Bar test room with temperature (18°C-40°C) and humidity control (20%-95% RH) Surface temperature monitoring for use in condensation Font testing.

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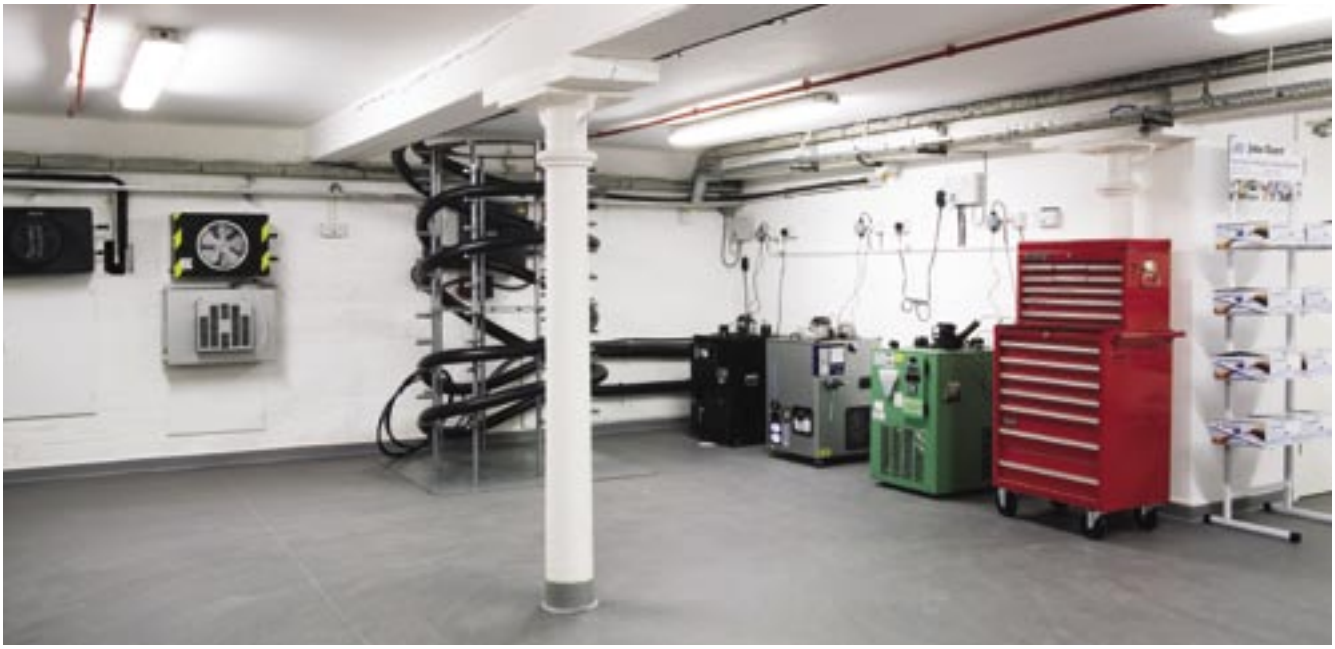

Main Cooler Test Room

Temperature controlled (18°C-40°C) and humidity with computerised test dispense system facility. BFBi cooler benchmarking python helix for correct storage of python undergoing test.

Cooler bath temperature monitoring for integral coolers with python recirculation in-line sensors. Cooler energy monitors to capture power consumption during testing linked to the main software data system. Ice wash performance test equipment to BFBi standard. In-line dispense sensors with multiple temperature capture per drink dispensed with automatic average figure calculation. Digital weigh scales for accurate ice bank and cooler weight measurement.

Typical Data Capture

- Liquid storage temperature
- Temperature measurement directly to PC in all three test rooms
- Humidity measurement in all three test rooms
- Python recirculation temperatures in Storage and Main Test Room
- In-line dispense temperature by discreet product line
- Predetermined dispense load test schedule, PC linked
- Cooler bath temperature monitoring
- Energy usage monitoring and capture, PC linked
- Ice wash performance testing
- Cooler weight measurement
- Data capture and visual graphical reporting.

info@innserveltd.com • www.innserveltd.co.uk