

## Controlled cooling for Loose Cannon

On the outskirts of Oxford lies the picturesque market town of Abingdon, home to 'Loose Cannon' a new micro-brewery set to make a big impact in the world of real ale.

The brewery set to produce Real Ale is headed up by **Will Laithwaite** and is due to open its doors this month, as they begin their first brew, following the completion of the sites re-development.

**Cool Energy**, specialists in temperature rental have been working closely with Will and his team to construct a **60 pallet in-house cold store** providing on site cooling to house casks of ale, before its final journey to the customer.



Speaking with Will, his love of ale led him to step aside from the family business [Laithwaites Wines] and begin a new venture in his own right. He has opened the site in the market town of Abingdon as it has access to a strong network of local independent pubs and is centrally located providing easy access for customers to buy direct from the brewery.

### The Perfect Brew

Commenting on the secret to a successful brew Will said "**cooling is key**". Cooling of the brew begins in the fermenting tanks which are controlled by ICS chillers at a constant temperature of 21°C, this keeps the ferment under control and it can then be chilled further to prevent the yeast from continuing to ferment. Following this, the ale is cold conditioned at a temperature of 6-8°C, the process of conditioning causes proteins and yeast cells to precipitate out, whilst also stabilising the ale and allowing it to absorb

Co2 to give the beer some life. Following a day of cold conditioning the ale is then transferred into casks and kept in the Cold Store, provided by Cool Energy at a constant 10°C this preserves it's shelf life.



Temperature control is considered at each stage of the brewing process, with an ICS Chiller providing cooling for the bright, fermenting and conditioning tanks. Without chillers or cold stores the ale temperature would be uncontrollable resulting in an inferior product.

### Flexibility to expand

The Cold Store used by Loose Cannon has been supplied by Cool Energy and is a **flexible modular set up** the system is currently capable of housing 60 pallets of casks, although the modular system used can easily be re structured and expanded by moving the front wall forward and increasing the cooling duty to allow for a greater cold store capacity.



Steve Prior - left, Will Laithwaite - right

Commenting on the installation **Steve Prior**, Cool Energy's UK Portable Cold Storage Manager said "from initial concept to completion and handover this bespoke build project was fully installed and commissioned within a 3 week timeframe".

Cool Energy has a wide range of cold stores, catering for many applications and with a flexible modular system can create cold stores from a 4 pallet capacity upwards.

With strong support from local ale drinkers and independent pubs across the region who haven't had a local brewery since 1999, Loose Cannon will be offering a unique opportunity allowing customers to visit the site, see ale being made and buy direct from their on-site shop.

### Nationwide Support

Cool Energy, who also operates throughout England, Ireland and Europe, rent air and water-cooled chillers, air blast coolers, air handling units, fan coils, air conditioners and cold storage solutions for long or short periods.

Flexible water hoses, pipe work connections, heat exchangers, power cable and generators can also be provided as part of the package supplied, together with inclusive 24/7 maintenance where required.

Cool Energy can be contacted on **0800 840 4210** or via email on **info@coolenergy.co.uk**