

Perfectly Clear Cooling



Tricool Thermal process chillers are providing critical cooling on the bottling lines at Silver Spring's manufacturing facilities in Folkestone.

A family run business, Silver Spring has been bottling water that flows from the Kent downs since 1870 and is one of the oldest soft drinks manufacturers in the UK.

Over 300 staff are employed at its factory, which operates 24/7 throughout the year. As well as producing its own 'Perfectly Clear' range of flavoured waters, the company also contracts packages of fruit based waters for most of the UK's supermarket chains.



Silver Spring's cooling process

Silver Spring's requirements

Unusually the company makes its own PET bottles and caps and relies on Tricool Thermal's chillers, which are essential to the manufacturing process. The plant has seven injection moulding and eight blow moulding lines and manufactures up to 26,000

bottles per hour per machine totalling some 250 million bottles every year.

Injection moulding the preforms from PET granules requires a temperature of 275°C. Silver Spring uses a Tricool Thermal TEC 140 air-cooled chiller together with two multi circuit water-cooled chillers for the majority of the preform and blow moulding production.

The neck size remains constant so the preforms are blown from the neck downwards at 120°C to the required bottle size, then cooled before being filled. A Tricool Thermal TEC 450 air-cooled chiller used in a satellite area controls temperatures for two additional blow moulders and for 'flash pasteurisation' on the line catering exclusively for the company's fruit juice based drinks.

Specified equipment

To maximise performance, energy efficiency and reliability, Tricool Thermal designed multiple circuit chillers and built in redundancy so that if one chiller fails the manufacturing process is not interrupted.

"The chillers are worked hard but Tricool Thermal understands our needs and ensured we have the right kit to meet our cooling requirements," adds Steve.



Tricool Thermal roof mounted cooling plant

Visit our website www.tricool.com for more information, or contact us on **0800 977 5709** or at info@icstemp.com.