

Case study 333

Substitute chiller keeps brewery functional

In order to accommodate the seemingly growing demand for ales and lagers, breweries are becoming more and more dependent on the sustained functionality of their ammonia plants. So when these break down or become less efficient, there is an immediate need to replace or supersede these units to ensure output levels are maintained.

The ammonia plants play a vital role in the cooling of beverages, and without it, production would likely have to stop. This has the potential to cost drink manufacturers hundreds of thousands of pounds during this period – the very reason we were approached by one of the world's most prominent breweries.

Our response was to provide six 750kW fluid chillers to cover the 3mW of cooling duty required, with these units deemed perfect for keeping temperatures at -5°C. The chillers were then connected on to manifolds supplied by the customer; one of which was located 18 metres above ground. A crane was used to lift hosing up to the required height, with this eventually fastened to scaffolding as a safety precaution.

Despite the client's chillers faltering, their pumps remained fully operational and were left in situ to help move cold water around the system. The pumps on our own chillers were then used to balance the combined flow across all chillers, which worked perfectly throughout their time on site. This chiller hire arrangement enabled the production of one of the country's most popular beers to continue without issue, which was fortunate because the company in question were sponsoring a major sporting event just weeks after the problem was first reported!



Nominal cooling duty 750 kW
Power supply 415 V 3 ph Run 576 A
Plug type Hard wired 4 x 35mm²
Noise level (max) 77 dBA @ 3 metres
Weight 7,450 kg
Dimension 6,058 x 2,438 x 2,591mm
Control Automatic programmer
Average power consumption 218 kW/hr
Generator size 550 kVA
Water connection 100 mm (4" Bauer)
Nominal water flow 37.5l/s
Low temp -12C



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