

Case study 311

Manufacturer Seeks Urgent Cooling

When a well-known producer of vehicle components needed immediate assistance after a manufacturing line component failure occurred, Andrews Chillers was asked to provide a temporary solution. The company – headquartered in Scotland – supply the automotive sector with axles for heavy duty lorries and trucks, but faced shutdown when critical refrigeration apparatus stopped functioning. Their cooling tower failed unexpectedly, preventing quenching water from being cooled and thus halting the overall process. Following a visit to our client's site, a technician assessed the requirements of the application and advocated equipment accordingly.

We delivered a 30kW chiller, a booster pump and a 50kW heat exchanger in order to create a replacement system. We cooled the quenching tank water with the chiller but because this was 35 degrees, it was suggested that the water pass through a heat exchanger. Prior to installation, we calculated the size of chiller necessary and subsequently selected a 30kW unit. This allowed us to reduce the fluid temperature greatly – bringing it down to 8 degrees and below.

The quick response of our engineers enabled production schedules to be adhered to despite delays initially seeming inevitable when the problem was first reported. Failure to install an alternative would have led to the customer incurring heavy costs, as well as being unable to meet output requirements. They were therefore very pleased with our rapid service which helped keep business operational at all times, with enforced downtime avoided. At Andrews Chillers, we pride ourselves on surmounting issues of any type or scale – and at short notice – ensuring you never miss out on trade or revenue.



Nominal cooling duty 30 kW 102,360 btu
Plug type BS4343 32 A 5 pin
Power supply 415 V 3 ph N+E 50 Hz Run 19 A/hr
Average power consumption 10 kW/hr
Noise level (max) 73 dBA @ 10 metres
Generator size 30 kVA
Weight 350 kg
Nominal heating duty (HP version) 30 kW 102,360 btu
Dimension 1,600 x 860 x 1,700 mm
Water connection 1.25 Camlock
Control Automatic programmer



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