

Case study 349

Andrews Chiller Hire restore power to local sewer treatment system

Andrews Chiller Hire was recently contacted by the UK's leading water company in search of an effective cooling solution to prevent their combined heat and power engines from overheating and breaking down.

The client had issues with their engines which were amplified by high seasonal temperatures. The engines in question operated the sewer treatment systems so it was vital that a solution was found quickly to avoid any long-term problems.

Shortly after initial enquiry, an Andrews specialist visited site to conduct a free survey and recommend a suitable chiller hire package to successfully cool down the client's engines. Our solution was to deploy and install a 375kW fluid chiller along with three 150kW air handling units.

Within hours, our experts positioned two of the air handling units directly in front of the affected engines, with the third unit directed at the air intake. The three air handling units were all connected to the temporary chiller which was sited outside of the engine store.

The chiller hire arrangement was successful in providing effective cooling to the engines which in turn ensure that the sewer's power source was kept online throughout. Our client was extremely satisfied with our practical solution which maintained maximum effectiveness throughout the duration of the heatwave.



Nominal cooling duty 375 kW
Power supply 415 V 3 ph Run 199 A
Plug type Hard wire (4 x 95mm²)
Noise level (max) 70 dB @ 10 metres
Weight 5,220 kg
Dimension 6,058 x 2,438 x 2,591mm
Control Automatic programmer
Average power consumption 99 kW/hr
Generator size 200 kVA
Water connection 100 mm (4" Bauer)
Nominal water flow 17.5 l/s
Low temperature -12C



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