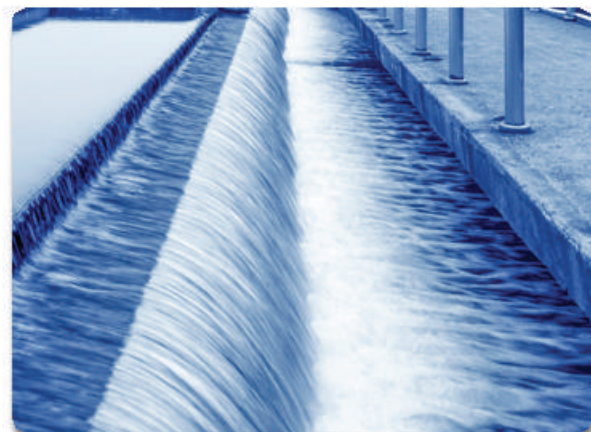


Case study 336

Andrews Chiller Hire stop sewage plant overheating

During the summer heatwave, one of the UK's largest waste water companies contacted us in a panic after encountering a problem on site. Hot weather had caused a major sewage plant's circulation pumps to keep tripping, which was preventing waste water from being pushed through the processing site.



The implications of this were potentially catastrophic, with an environmental disaster certain to occur if vast quantities of sewage were not treated quickly. Failure to address this would also lead to raw sewage overflowing into the river system – something the client was desperate to avoid happening.

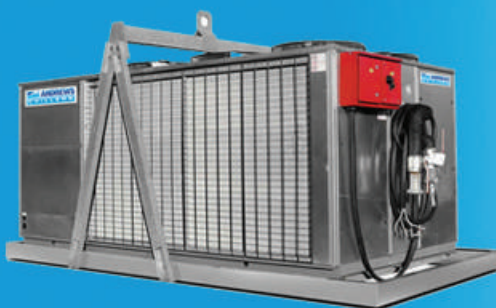


Circulation pumps on site had a radiator-based cooling mechanism, but because the ambient air was too hot, the 'cooling oil' was also too warm by the time it exited. Our solution to overcome the problem was to locate and install a 200kW chiller outside the pump house. We also positioned four 50kW air handlers inside the pump house, and these were ducted near to the inlet of the cooling radiator.



This hire arrangement was sufficient in helping a panicked customer avert an extremely undesirable scenario and enabled a vital procedure to continue in operation. Our response to the situation was a typical example of the speed with which Andrews Chillers are able to provide equipment for emergency projects.

Nominal cooling duty 200 kW
Nominal heating duty 200 kW
Power supply 415 V 3 ph Run 120 A
Noise level (max) 53.3 dB @ 10 metres
Weight 3,500 kg
Dimension 4,100 x 2,300 x 2,700mm
Control Automatic programmer
Plug type Hard wired 5 core x 35mm²
Average power consumption 63.2 kW/hr
Generator size 140 kVA
Water connection 75 mm (3" Bauer)
Nominal water flow 10l/s



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