

# Case study 335

## Chiller hire prevents power station shutdown

When a world leading provider of industrial productivity solutions sought a powerful cooling hire arrangement, they contacted Andrews Chillers for a recommendation.

The company in question estimated that temporary equipment would be needed for approximately three weeks – the lead time required to implement and pressurise concrete enclosures on site. These compounds envelope the reactors in nuclear power plants and must therefore be regularly checked as a safety precaution. Tightness tests are therefore essential to detect any leaks that may be present in the structure, with such measures clearly set out in nuclear facility regulations.

Before proposing a suitable chiller hire package, an Andrews engineer arranged a technical meeting at the client's offices (in Lyon). This allowed us to gain a better understanding of the application's unique demands and thus outline the best course of action. We then advocated the use of four 100kW chiller units, which were delivered and installed within hours of the original consultation.

The desired cooling conditions varied – with the outlet water at 15°C, external temperature of 35°C and a delta temperature of just 5°C – so it was essential that we advised the use of a product that could handle such precise specifications.

Once the chillers were commissioned and fully operational, our customer could begin carrying out a series of stringently controlled assessments. By processing the order quickly and supplying the necessary kit first time, we were able to guarantee the company could complete all tests quickly and confirm their compliance with industry legislation. Our speed of service was also pinpointed as a decisive factor in the project's swift conclusion – an endorsement we are very proud of.



Nominal cooling duty 100 kW  
Nominal heating duty 115 kW  
Power supply 415 V 3 ph Run 104.2 A  
Noise level (max) 68.5 dB @ 10 metres  
Weight 2,030 kg  
Dimension 2,965 x 1,270 x 2,740mm  
Control Automatic programmer  
Plug type BS4343 A 5 pin  
Average power consumption 43 kW/hr  
Generator size 115 kVA  
Water connection 50 mm (2" Bauer)  
Nominal water flow 5 l/s



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**CHILLERS**

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