

# Case study 108

## Heating for a Concert Venue

An 8,500 capacity performance theatre in Scotland required emergency assistance after its heating system broke down. The arena hosts concerts and events all year round and subsequently required an immediate solution to ensure they all took place as scheduled. These were expected to be busy music shows attended by families throughout the duration of the hire.

Without replacement heat, the venue would not have been fit for purpose because of health and safety regulations outlining a minimum temperature requirement. The client therefore asked us to provide 500 kW of heat to match what their own system produced before it failed. We supplied two FH2000 oil-fired heaters and supplemented them with an FH111 unit, as well as ducts and three fuel tanks. The heaters used for the project are 92% fuel-efficient and therefore provided a cost-effective solution to the problem.

The initial plan was to use five fire exits on the outskirts of the area to push warm air to the underside of the seating area. We also created a set of false doors with applicable holes, allowing our high temperature ducting to pass. All three heaters were quickly installed and amendments to the task were made, meaning less fire exits were employed to pass ducting than originally planned. The efficiency with which the task was carried out impressed the client and enabled concerts arranged for January and February to go ahead as planned.

Thanks to Andrews Heat for Hire the events passed off without disruption during the period of hire. We have the expertise to accommodate emergency heating replacement or simply planned maintenance, and ensure that your business or process remains fully operational.



Power supply 415 V 3 ph +E 50 Hz Run 20 A  
Generator size 20 kVA  
Noise level (max) 76.5 dBA @ 1 metre  
Duct size 600 mm x 2  
Weight 1300 kg  
Fuel Consumption 38 ltrs/hr  
Dimension 3,850 x 1,200 x 2,015 mm  
Typical heated area 8,457 m  
Control Manual, External controls available  
(24 V external control circuit)  
Fuel type Gas Oil  
Plug type BS4343 3 ph 4 pin 32 A  
Flue 1 mtr



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