



**ANDREWS
VENTILATION**



0800 211 611



CASE STUDY

Andrews Ventilation Delivers Fume Extraction for High-Profile London Event

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CASE STUDY

Maintaining Atmosphere Without Compromising Safety

When a premier festive attraction in Central London opened its doors to millions of visitors, maintaining air quality in its popular 'Fire Pit' area became a critical operational requirement. The venue features open wood fires situated within semi-enclosed wooden chalets and teepees, designed to create a traditional seasonal atmosphere.

Andrews Ventilation was commissioned to design and install a bespoke extraction system to manage smoke accumulation and ensure the safety of both guests and staff. By implementing FV900 S2 centrifugal fans with ducting systems, we successfully managed smoke accumulation from solid fuel fires, ensuring seamless operation and full regulatory compliance.



FV900 S2 Ventilation Extraction Fan



Need temporary ventilation solution for your project?

Andrews Ventilation provides rapid, high-performance ventilation solutions to keep your business safe and operational. Contact our team today!

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Learn more

1 CHALLENGE

Burning solid fuel in semi-enclosed structures posed significant Health & Safety risks, requiring a discreet solution capable of 24/7 operation in damp winter conditions.

The system needed to effectively mitigate Carbon Monoxide (CO) and smoke haze to maintain safe, breathable air and visual clarity. Crucially, the extraction equipment had to be powerful yet unobtrusive, ensuring strict safety compliance without disrupting the event's immersive atmosphere.



2 SOLUTION

Following a comprehensive site survey, we deployed a fleet of FV300 S2 Centrifugal Extraction Fans. Selected for their high-pressure performance, these compact units efficiently moved air through long, resistant ducting runs while minimizing their physical footprint on site.

- We installed rigid ducting spiral stacks to discharge smoke well above the "breathing zone," preventing recirculation into the crowd.
- The high-temperature flexible hosing connected intakes directly to chalet roofs, capture fumes before they could disperse.
- We also positioned the fans externally to reduce noise and pollution and maintain continuous operation.

3 OUTCOME

The installation of the Andrews Ventilation system provided immediate air quality improvements, allowing the venue to operate at full capacity throughout the peak trading period.

By effectively removing pollutants at the source, we eliminated the risk of CO and CO₂ accumulation, ensuring a clear and safe environment. The system's reliability ensured zero downtime, protecting the client's revenue and reputation while maintaining full compliance with UK Health & Safety regulations.





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