

3 Arena, Dublin

Ventilation and BMS Upgrade



“Sirus were engaged to perform an independent performance assessment of the Arena ventilation system and BMS strategy in order to identify a number of possible improvements...”

As a result, further to the survey works, Sirus were engaged to provide a Following an enquiry by 3Arena and a site visit regarding performance issues of the HVAC system in the auditorium, Sirus were engaged to perform an independent assessment of the entire system in order to identify the need of additional cooling, ventilation or a BMS upgrade.

The 3Arena is a state of the art concert venue with concert hall quality acoustics and a capacity of over 14,500, which makes the venue the largest indoor arena in Ireland and one of the busiest in the world. Thanks to its modular design, the 3Arena has the flexibility to accommodate a great variety of stage and sports events, hosting over 150 event nights per year.

The Client HVAC upgrade “wish list” included a review of the performances in comparison to design values; improvement of ventilation and air circulation in seated areas; reduction of temperature stratification; review of BMS strategy in order to improve control over the system.

During the initial survey Sirus performed a full foot print of the system which included airflows measurement, temperature logging, smoke visualisation tests, equipment inspection, thermal loads and ventilation requirements verification.

As a result, further to the survey works, Sirus were engaged to provide a turnkey solution to improve some of the HVAC problems.

Building Energy Solutions

Cork | Dublin | London

www.sirusinternational.com

FINAL CLIENT

3 Arena (Live Nation)

LOCATION

North Wall Quay, Dublin1

SERVICES PROVIDED

Complete HVAC footprint Survey and performance report; Smoke Tracer visualisation tests; Thermal loads verification; AHUs Upgrade (total of 120,000 l/s!); BMS Upgrade; Extract and ventilation upgrade; Construction Design; System re-commissioning.

HEALTH & SAFETY

Design, PSCS and Contractor

DURATION

Feb 2015 to Feb 2016

REFERENCE CONTACT

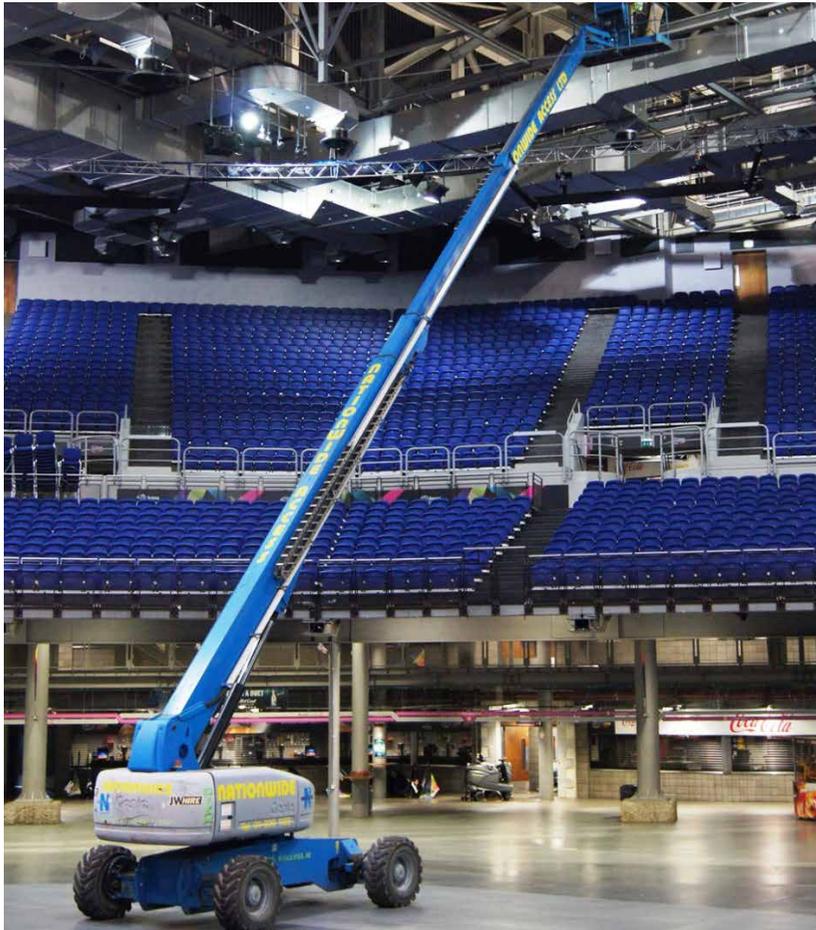
Mr. Kevin McDonnell
Facility Manager,
Tel: +353-1-866-3434

HEALTH + SAFETY

PSCS + Contractor

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“The project was carefully planned and scheduled, working around the busy agenda of the Arena, for quiet times in between events...”

The improvement project included a full upgrade of the four AHUs, BEMS improvements such as additional VSDs, pressure control and improved interface, and a new extract system in the back tiers of the arena for a total of 30,000 l/s.

The project was carefully planned, scheduled around the busy agenda of the venue for quiet times in between events, and successfully completed with no disruption to client operations over a period of one year meeting Client expectations.

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