

Air Diffusion update number 5

AIR DIFFUSION HELPS PROVIDE CONDITIONED ENVIRONMENT FOR THE O₂

Products from Ruskin Air Management have helped to breathe new life into one of London's most iconic buildings.

The O₂ is the rebirth of the Dome. The huge space - an area twice the size of Trafalgar Square - beneath the famous white marquee has been completely re-equipped.



Contractors E and S Heating and Ventilation Ltd have integrated Grilles and Diffusers from Air Diffusion and a range of Fire and Smoke Control equipment from Actionair with miles of ductwork to create a new ventilation and air conditioning system.

Millennium

Built to mark the dawn of the new Millennium the original Dome combined a bold exterior with vagueness of interior purpose. "What is it for?" famously asked the President of France.

There's no vagueness about The O₂, the new £600 million entertainment complex that opened with a concert by Bon Jovi in June 2007.

The O₂'s 23,000 seat Arena with its superb acoustics and completely unrestricted views has since provided a venue for a host of stars including Prince and The Rolling Stones. Music, however, is just one of its purposes. The Arena will also be used for sports events including Ice Hockey and it's already booked to host the Gymnasium and Basketball events in the 2012 Olympic Games.

Nor is the Arena the only attraction at The O₂. The Waterfront complex also includes a music club, an 11-screen multiplex cinema and over 20 bars and restaurants.

There's even a summertime indoor "beach" which doubles as an ice rink in the winter.

Finally, there is a dedicated exhibition space, which was recently the venue for a special display of treasures from the tomb of Tutankhamun.

Ventilation and air conditioning system

The entire ventilation and air conditioning system has been replaced.

Air Diffusion has supplied a variety of air terminal devices to the refit project.

Perimeter supply in many areas is via 4-Slot Linear Diffusers. This popular range is particularly well suited to large open areas, where the air distribution system must react to varying occupancy levels and be adaptable to future needs. Air Diffusion Slot Diffusers combine sleek good looks with a high air change rate and excellent air pattern and volume control.

Other areas are served by Air Diffusion Square Faced and Circular Diffusers. Type SA Diffusers are suitable for both supply and return air applications with



the square-faced inner core providing a fixed horizontal air pattern capable of handling a large quantity of air at a given pressure drop and noise level. Air Diffusion Circular Diffusers are also suitable for the large open areas that abound at the O₂. Model DE has a versatile inner cone arrangement, which makes it possible to adjust the airflow pattern in up to five different settings.

A large number of Air Diffusion PSG Steel Extract Grilles have also been supplied to the project.

THE O₂ FACTS

- It's still the largest domed structure in the world.
- The outer towers number 24 for the hours of the day.
- The roof is held up by 100 metre high masts- there are 12 to mark the months of the year.
- Diameter of the circular structure is 365 metres for the days of the year.
- The Dome weighs less than the air contained within it.

Air Diffusion

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