



L – R: British comedian Adam Bloom, Joe Wieckowski GSM, Colman Moducel, and Neil Everitt, Group Editor presenting HVR Award - Copyright Faversham House Group

NEWS RELEASE

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Eaton-Williams Wins HVR's Air Conditioning Product of the Year

Colman Moducel, part of the Eaton-Williams Group (www.eaton-williams.com), is celebrating after FANWALL TECHNOLOGY[®], won HVR's Air Conditioning Product of the Year 2011.

Held at 8 Northumberland Place in central London with the award winning comedian Adam Bloom hosting the awards, the heating, ventilating and refrigeration industry witnessed Eaton-Williams win the much coveted Air Conditioning Product of the Year.

"This is a great award for Eaton-Williams. FANWALL[®] systems are unique and offer the energy savings, efficiencies and environmental benefits that are demanded by our customers. Our customers are increasingly expecting their plant and equipment to perform optimally, minimising energy, reducing CO2 emissions and maintenance costs, FANWALL systems do exactly that," comments Joe Wieckowski General Sales Manager for Colman Moducel.

FANWALL systems are an innovative way of customising air handling units using a number of high efficiency small diameter direct driven fans mounted in an array within the air handler's intake and are typically more efficient than conventional air handlers.

Moducel's FANWALL air handling units are arguably the first true innovation in the air handling equipment industry in years. Based on replacing large fans with a modular array of smaller fans, FANWALL systems allow for major improvements in footprint, reliability, energy efficiency, sound attenuation, operating costs and are also ideal for retrofit applications.

FANWALL systems incorporate custom-designed fans that are manufactured by Eaton-Williams and matched to each application. For optimum energy efficiency, the fans are inverter controlled. In the event of a fan failure the remaining fans automatically speed up to compensate, providing n+1 resilience.

These components have been successfully blended to match new construction and retrofit application requirements, while providing the benefits of redundancy, quiet and vibration-free operation, and optimised energy efficiency from design minimum to maximum flow, and low cost maintenance and service.

- Custom fan wheel and inlet cones designed to optimise airflow efficiency and minimise turbulence. The fan wheels are AMCA certified at 72% efficiency.

- Multiple fan wheel sizes and motor combinations enable airflow to be optimised for each application and AHU size. Fans are available in seven sizes from 250mm to 560mm. Similarly the motors are selected to match the design hp for peak efficiency throughout the operating range of the air handler.
- A robust cube design and patented Coplanar Silencer® to minimise sound and vibration.
- Damper selections to minimize pressure drop and block-off plates that eliminate back draft air in fans that are off.
- Control algorithms to optimize performance in variable airflow applications.

Benefits

- **Designers** benefit from an easier fit for space limitations.
- **Architects** can devote less space to mechanical equipment rooms.
- **Owners** can have more leasable space to generate revenue.
- **Contractors** have smaller sections/components to handle and install. For retrofit applications, individual cubes can be navigated through standard three foot doors and easily assembled on site.

Key features

- Energy efficiency
- Reduced noise
- Built in redundancy/reliability
- Small footprint
- Reduced maintenance costs

FANWALL versus conventional AHUs

- Length 2490mm against 3690mm
- Noise level often 16 to 18dB less in lower octave bands
- Fan absorbed power 7.74kW against 9kW
- Air discharge extremely even – take off directly after fan

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