

velocity

Winter

THE PERIODIC NEWSLETTER OF THE HOLYOAKE GROUP

ADPI AIR DIFFUSION PERFORMANCE INDEX

Holyoake & Haden lead the way at
Section 84 Commercial Canberra

ENERGY EFFICIENCY HOLYOAKE ECO™

We launch at ARBS

NEW OFFICE IN S.A.

Where next?

NEW CATALOGUE

The 'Blue Book' is revitalised

HOLYOAKE_KLIMA™

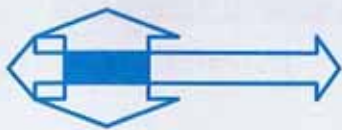
Holyoake expands its product range

PREMI-AIRE PANEL™

Pre-insulated ducting of the future
developed by Holyoake

ARBS SYDNEY 2006

Holyoake seize the opportunity



HOLYOAKE
AIR MANAGEMENT SOLUTIONS™

arbs sydney 2006 holyoake seize the opportunity

Written & compiled by Andrew Krake



ARBS Sydney 2006 will provide Holyoake the opportunity to deliver on a number of key projects.



"ARBS provides both the impetus and the critical deadline for the completion of a number of projects", says Holyoake Director Mr Grant Holyoake. Grant Holyoake has been at the forefront of the redevelopment of the Holyoake Air Distribution Systems Component Manual.

The new and revitalized Holyoake 'Blue Book' Engineering Air Distribution Systems Component Manual, an industry favourite, will now be ready for distribution at ARBS.



At this year's ARBS in Sydney Holyoake will also launch the new Holyoake_Klima range. (see product review for more details)

The Holyoake_Klima range swells the already extensive Holyoake product range with more than 20 new products with all manner of configurations.

ARBS has always been part of the Holyoake training and marketing development strategy. However an exhibition like ARBS is not just a marketing opportunity for Holyoake.

The programme implemented by Holyoake management in preparation for ARBS 2006 started at the close of the successful Melbourne exhibition in 2004.

One of the more important Holyoake product developments to be launched at ARBS this year will be the Holyoake ECO diffuser. Attracting a worldwide patent this new, self actuating, adjustable air pattern diffuser will redefine the domestic and commercial HVAC markets. (see product review for more details)

Holyoake will also feature the latest ducting system in the Holyoake Premi-Aire Pre-Insulated Panel duct board and assembly kits. This versatile light weight ducting board is perfectly suited to produce quality ducting as well as Holyoake air diffusion plenums and accessories. (see product review for more details)

Under floor air systems are increasing in popularity and Holyoake will exhibit some of the latest floor swirl diffusers that are now part of the standard range.

Holyoake will also be using the ARBS exhibition as a demonstration and training facility over the three day event.

We would encourage our clients, contractors and specifiers to attend. If you only visit the Holyoake stand your time will be well spent.

Visit Holyoake Air Management Solutions Stand 149 - 14th, 15th and 16th of August 2006 Sydney Convention & Exhibition Centre, Darling Harbour, Sydney.



Haden & Holyoake
lead the way at Section 84
Commercial Canberra

Written & compiled by Andrew Krake

adpi - air diffusion performance index

Our Holyoake team worked with the Haden Engineering Development Group to overcome some initial design hesitation that an ADPI of 80+ could be achieved with swirl diffusers internally and perimeter linear diffusers given the stringent design parameters of the new Section 84 - the proposed new building to house the ATO (the Australian Tax Office).

The Section 84 building is in fact a very substantial project. Building 'B' has 12 levels of 23,000sqm of nett lettable area. Building 'C' comprised two interlinked structures of 9 levels with over 40,000sqm of nett lettable area.

The Bovis Lend Lease design specification defined the minimum quality and standards expected for the project - these included a 4.5 ABGR energy rating and a minimum measured space ADPI of 80+ for both the perimeter and internal zones at VAV minimum and maximum air flows with temperature differentials of between 9°C and 11°C.

Holyoake took on the responsibility to verify the ADPI design rating at our development and testing facility in Queensland. The Queensland facility, whilst not the best location mid summer to test Canberra conditions, offered the most suitable chilled water system capable of achieving the design

Over a two week period Holyoake conducted a series of ADPI tests to verify that the required ADPI standards could be achieved. These tests were to verify that the internal zone, with the Holyoake_Klima™ Swirl Diffusers, Model OD-7/KB, and Perimeter zone Holyoake CSDL25 linear slot diffusers, would provide ADPI comfort conditions above a rating of 80 at simulated design conditions.

In fact the perimeter zone conditions achieved were between ADPI 83 and 94 with the internal zone achieving levels of comfort between ADPI 94 and 100.

The principles of ADPI are to some complex but when effectively applied using accurate product selection data, the ASHRAE standard provides superior comfort outcomes. You can refer to the Holyoake 'Blue Book' Component Manual to

learn more about ADPI and its applications.

Pick up a copy of the Holyoake 'Blue Book' at ARBS 2006 Darling Harbour: August 14th - 16th.



HADEN

118 Lysaght Street
Mitchell ACT 2911
Australia

The Holyoake and Haden design proposal gained sufficient confidence from Bovis Lend Lease and Northrop Engineers, the EDS consultants, to support a full lab test to verify the design proposal.

holyoake appointments

...a Maroon becomes a Blue and a Mexican heads North

Written & compiled by Jamie Brown

The recent and unforeseen departure of Mr David John from our Sydney office created an opportunity for us to look internally within our management group for a solution.

The result is our Queensland Managing Director Mr Anthony Aloe will now take up the position as head of NSW.

Anthony's success in Brisbane can only be doubled with his move into the vibrant Sydney market.

Scott Muir, one of our most experienced senior sales engineers with many years experience in Melbourne, will take up the challenge to continue Anthony's efforts as the newly appointed leader of the Queensland team.

We trust the market will support these appointments with the same enthusiasm as the Holyoake Group.

holyoake open south australian office ...where next?

Written & compiled by Jamie Brown

The newest Holyoake office to open is - South Australia. Technical Sales Manager Mr Mark Smith has been appointed to develop a market for Holyoake in S.A. Mark will also be responsible for developing the further opportunities in W.A. and North to Alice Springs and the greater Northern Territory.

The new Adelaide office is located at:

Level 24, Santos House
91 King William Street,
Adelaide 5000
Tel: (08) 8113 5316
Fax: (08) 8113 5360

premi-aire™ pre-insulated duct panel

Written & compiled by Anthony Aloe

Premi-Aire™ Pre Insulated Duct Panel is one of the newest additions to the Holyoake range. Holyoake now builds Cushion Heads, Plenums and Linear Adaptors in this impressive, versatile, robust and light weight duct panel. At Holyoake we developed our own Premi-Aire™ Pre-Insulated Duct Panel to ensure it's suitability for the Australian and New Zealand markets.



Holyoake Premi-Aire™ Pre-Insulated Duct Panel has been NATA certified by the CSIRO Manufacturing & Infrastructure Technology Testing Authority in accordance with AS 1530 part 3, 1999 and awarded a 4 zero fire rating.

The Premi-Aire™ Pre-Insulated Duct Panel is built to exacting international quality standards with ISO 9001:2000 Certification.

Premi-Aire™ Duct Panel Features:

- > Specification: 4,000mm x 1,200mm x 20mm
- > 80/80um aluminum foil, both sides embossed
- > Density: 60kg/m³
- > Compressive strength: 200N/mm²
- > Thermal conductivity: 0.021 W/m.K
- > Fire rating 4 Zero
- > Friction coefficient: 0.0135

Applications for Holyoake Premi-Aire™ Pre-Insulated Duct Panel are virtually limitless. Premi-Aire™ Pre-Insulated Duct Panel systems can add value and benefits to your next project.



blue book

New and Revised

Written & compiled by Grant Holyoake

Holyoake have produced the new and revised version of the beloved Holyoake desktop 'Blue Book' in time for distribution at this years ARBS Exhibition.

The Holyoake Research and Development team has compiled a staggering volume of new products together with a raft of improvements to the existing product range since our last publication of the 'Blue Book' Air Distribution Systems Component Manual.

Our ever popular industry manual has been given a face lift and brought up to date to now accurately reflect the Holyoake product range. The extent of our work in giving the manual relevance to the current range has surprised some - but so will our efforts to surprise you. Collect your copy at ARBS this August.

Holyoake_Klima™

Holyoake expands its range

Written & compiled by Andrew Krake



HOLYOAKE
KLIMA

Hidria
IMP Klima

Holyoake_Klima™ is a name you'll want to remember. Holyoake_Klima™ has been chosen as the mast head for the new European range of Air Diffusion equipment available from Holyoake. This exciting new range of equipment comes to Holyoake from our collaboration with the world wide Hidria - IMP Klima group of companies. The Holyoake_Klima™ brand has been created as the vehicle to market the extensive IMP Klima range of products and services in Australia and New Zealand.

The IMP Klima Group consists of affiliated companies which employ more than 660 people in the production, servicing and sales of air conditioning systems.

The formal collaboration between Holyoake and IMP Klima make available for the Australian and New Zealand HVAC markets the most comprehensive, innovative and versatile air distribution product range in the world today.

The Holyoake_Klima™ range is fully supported by impressive design and engineering catalogue data together with simulation and selection software developed to international standard ISO 7730. This impressive software enables the engineer to build a projects' thermal profile and select from a range of suitable products, determine air flow patterns at design conditions be they heating or cooling. The impressive new Holyoake_Klima™ range will be a feature at ARBS.

The training facilities, an element built into the Holyoake stand at this year ARBS will enable the Holyoake team to familiarise their customers and clients in the accurate and effective use of the design software.



Come and see the new Holyoake_Klima™ range at Stand 149 ARBS 2006.



eco automatic

Just one of the latest Holyoake innovations is the new ECO-A Automatic Diffuser.

Written & compiled by Scott Holyoake

The ECO-A is a high induction circular ceiling diffuser capable of detecting accurately the supply air temperature and directing a portion of the supply airflow from a horizontal air pattern to a combination horizontal /vertical trajectory when in the heating application.

This remarkable diffuser assists greatly the efficiency of heating systems to achieve temperature faster and with improved temperature gradients - no cold feet, warm head.

Comfort and energy savings are just two of the features of this innovative diffuser.

The ECO-A diffuser automatically directs a portion of the supply air vertically when the supply air temperature is above 27°C. The temperature sensing device detects the conditioned air temperature to position the aperture for heating or cooling mode automatically.

The effectiveness of ECO-A diffuser in a heating application can be seen in figure 1 below. The ECO-Automatic is powered by the supply air temperature and does not need any external power source.

In cooling mode the ECO-Automatic diffuser provides a strong radial ceiling effect eliminating the chance of cold air draughts at a variety of flow rates making it suitable for Variable air volume applications.

Holyoake has design the ECO-A for easy installation and these versatile diffusers can be retrofitted into existing air conditioning systems where similar standard ceiling outlets are installed. Working examples of the ECO-Automatic range will be on show at the ARBS exhibition, Darling Harbour 14th -16th August Holyoake Stand 149.

bendigo bank hq

Underfloor Air Holyoake Floor Swirl

Written & compiled by Andrew Krake

Currently under construction by specialist builder, Probuild Construction, is the new Corporate Headquarters of the Bendigo Bank.

This landmark development located in the Bank's home town of Bendigo, in regional Victoria, incorporates major ESD (Environmentally Sustainable Design) elements such as rain water collection, active solar shading, grey and black water treatment and recycling together with underfloor air supply featuring Holyoake_Nailor adjustable floor swirl diffusers.



Model HNDF



Holyoake Product Brochure

Meinhardt (VIC) Pty. Ltd. was appointed as the building engineering consultant for this exciting regional development which will not only house the Bendigo Banks' corporate headquarters but incorporate a new shopping complex, cafes and outdoor meeting areas.

The design teams' aim is to achieve a five star AGBC and five star ABGR ratings. In partnership with Sustainability Victoria the project is part of the Commercial Office Building Innovation Initiative (COBEII).

The underfloor air distribution and conditioning system with Holyoake_Nailor Floor Swirl Diffusers allows the Bendigo Banks' employees individual control over workspace ventilation and temperature, and earns as much as two awarded credits for providing a means of individual Thermal Comfort Control in compliance with Green Star Office Design IEQ-9.

Computational Fluid Dynamic (CFD) analysis, carried out by the Meinhardt Building Science Group played an important factor in the design of the system, including the location of the outlets and evaluation of Internal Environmental Quality (IEQ).

As part of the design, off-site evaluation of the outlets was conducted at Holyoake's Melbourne test facility to ensure proper airflow patterns and low velocity distribution were achieved.

With Allstaff Airconditioning (VIC) Pty. Ltd. providing the Mechanical Services installation the Bendigo Bank can be assured of a quality high performance, energy efficient air conditioning and ventilation system.

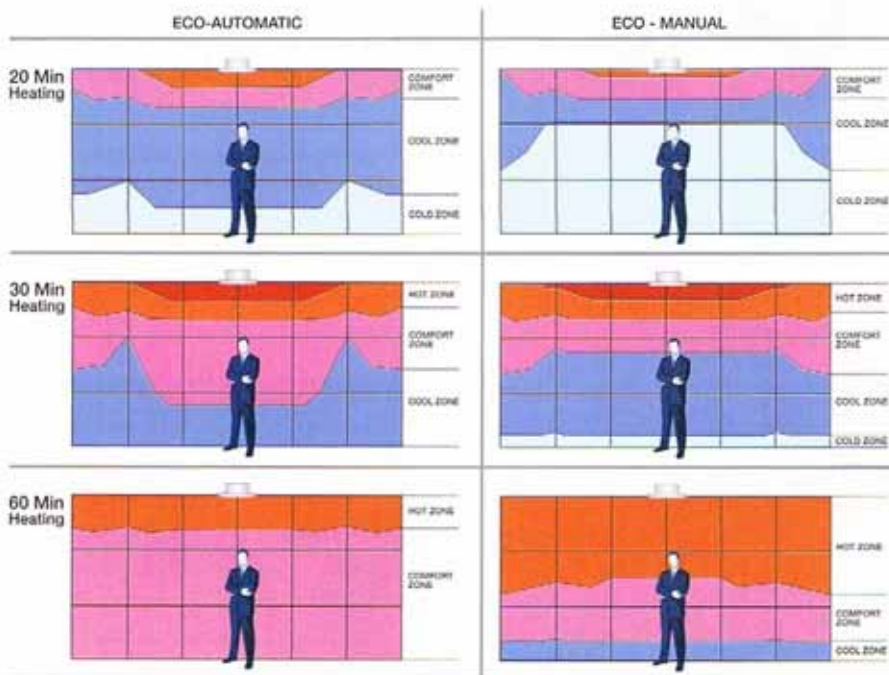


Figure 1.



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Before completing, photocopy to register your colleagues

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Company Name _____	
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Tel _____	Fax _____
Mobile _____	Email _____

Fax to 02 9211 7602 or

Post to: PO Box K1385, Haymarket NSW 1240

or Register at the Exhibition (Simply present this ticket and register at the Exhibition)

- Tick if you do not wish to receive follow up industry material via email, fax or direct mail
- Yes, please send me the Seminar Program

Which category best describes your profession

- Architect
- Agent
- Builder
- Consultant
- Contractor
- Designer
- Developer
- Distributor
- Educator
- Engineer
- Equipment Seller
- Facility Manager
- Government
- Hospital Engineer
- Hotel Engineer
- Maintenance
- Mechanic
- Property Manager
- Plumber
- Project Manager

- Purchaser
- Self Employed
- Specifier
- Student
- Technician
- Other

Please indicate the products/services you are interested in at ARBS 2006

- A/C - Central Plant
- A/C - Commercial
- A/C - Ducted Systems
- A/C - Industrial
- A/C - Package Units/Split
- A/C - Residential
- Air Purification
- Air Quality Control
- Building Management Systems
- Controls
- Cooling Towers
- Design



- Event Management
- Environmentally Sustainable Design
- Fans
- Fire Systems
- Food & Beverage Equipment
- Heating Systems
- HVAC System Design
- Industry Associations & Institutes
- Pumps
- Refrigerants
- Refrigeration - Commercial
- Refrigeration - Industrial
- Refrigeration - Residential
- Safety Equipment
- Technical Literature
- Tools & Accessories & Parts
- Ventilation
- Water Treatment
- Other please specify

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