

Volume 2 / Issue 2

velocity

THE PERIODIC NEWSLETTER OF THE HOLYOAKE GROUP



HOLYOAKE INVESTS

further in Research & Training

FloEFD CFD

Product & Environment Modelling Software

HOLYOAKE PROJECTS

Holyoake Architectural features at ANZ Docklands
Security at Rimutaka Prison - Wellington

PRODUCTS

Premi-Aire Pre-insulated Duct Panel
CWD and CJD Linear Diffusers
provide options & opportunities

ONCOLOGY CHILDREN'S FOUNDATION

Holyoake Joins with AMCA to Raise Research
Funds & Awareness



Holyoake Investment In Research and Training

The Holyoake Group maintains its long history of investing in product research, industry development, and staff training.

The most recent evidence of this philosophy is seen in the new training and laboratory facility at our Melbourne plant, and the training and demonstration rooms now in our Wellington and Adelaide offices.



Holyoake Wellington's brand new facility

Holyoake now has research, development and training facilities in Auckland, Wellington, Queensland, Sydney, Melbourne & Adelaide. Holyoake are specialist manufacturers and suppliers of Air Diffusion, Fire Protection, Volume Control and VAV Terminals. Many of our customers and clients understand the benefits that come from the design confidence these facilities offer.

Auckland, Wellington, Queensland, Sydney and Melbourne offer exacting controlled temperature environments

utilising a variety of systems designs, chilled water, heat pump & controlled temperature fan coil components.

Each of our facilities offers accurate flow rate control with engineered orifice plates manufactured and installed in accordance with International Standard ISO 5167-1.

Data collection is recorded using NATA certified equipment to ensure only accurate data is measured. Our Auckland facility boasts it's own reverberation chamber for more exacting sound measurement. Holyoake have now undertaken several comprehensive ADPI studies to determine the environmental comfort of building systems and air distribution designs utilising these in-house resources.



Melbourne's Training & Laboratory Facility in action

Each of these facilities can demonstrate a host of air diffusion applications: ceiling mixing systems, sidewall, jet or nozzle, displacement, and under floor air supply. Several include industry standard computer or raised access flooring.

All test facilities are fitted with tracer smoke capabilities that allow the participant a visual perspective of the air diffusion and air distribution performance. This means we can provide graphic clarity if you need to verify the performance characteristics of our air diffusion equipment, or your air distribution system design. Holyoake regularly hosts events for AIRAH, IHRACE, NEBB, AMCA, consultants, designers and developers. In one recent event with the National Environmental Balancing Bureau, we were able to highlight and correct the accuracy in balancing swirl diffusers with standard measurement hoods. These devices were shown to be inaccurate by as much as 30% against a known air volume. The inclusion of a straightening vane corrected swirling air patterns and the accuracy of each of the measuring devices.

Contact any of the Holyoake offices throughout Australia and New Zealand to take advantage of these invaluable facilities.



Holyoake's Melbourne Product Showroom

FloEFD Product & Environment Modelling Software

Computational Fluid Dynamics (CFD) has evolved to Engineered Fluid Dynamics. We have therefore added FloEFD, an advanced CFD product and environment evaluation software, to our suite of software tools.

This sophisticated software tool enables us to deliver engineered and architecturally designed products, performance targeted and market ready.

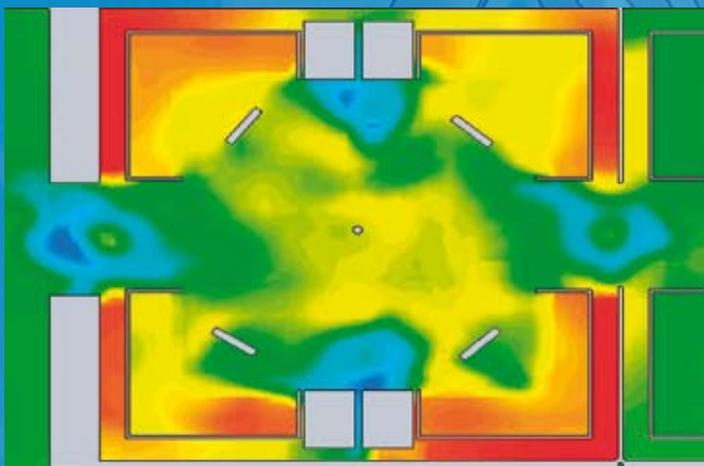
This addition allows us to evaluate our products in development. The FloEFD software also allows us to import Solidworks 3D product models directly into the program for simulation.

We chose FloEFD software because it uses advanced knowledge based automation processes, thereby removing the need to identify and establish CFD algorithms or mesh, and allowing us to focus on the development and performance of the product.

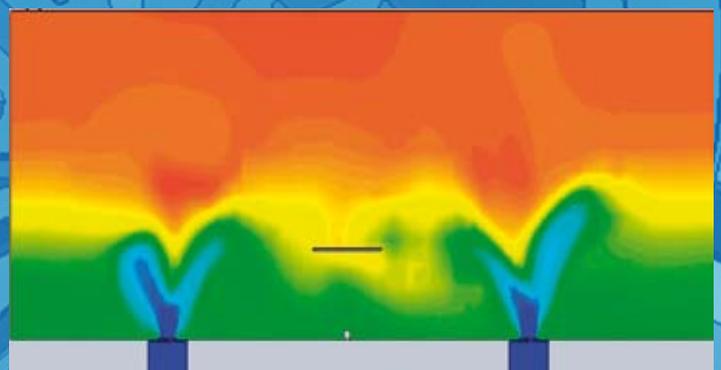
Holyoake recently undertook an evaluation study on behalf of Lincoln Scott Australia for an Under Floor Air Distribution (UFAD) design at 199 Collins Street, Hobart. The environmental evaluation confirmed comfort levels within a workstation environment using the Holyoake FSD swirl diffusers as the distribution medium.



Solidworks 3D Model FSD200



Thermal Environment UFAD



Thermal Environment UFAD

velocity  Holyoake Product

Premi-Aire™ Duct Products

When the heat's on Holyoake Queensland rises to the challenge!

In the middle of a Queensland summer air conditioning systems are put to the test. Poor vapour seals in thermal insulation will allow sweating on ducting and fitting surfaces. Premi-Aire™ Pre-Insulated duct panel effectively forms a secure barrier to prevent sweating or condensation forming on external surfaces.

Our Queensland customers have been quick to take advantage of the versatile R1.0 rated Premi-Aire™ duct panel, leading the market. Thermal properties are just one of the many advantages offered by this phenolic duct panel. Holyoake has recently installed three CNC automated processing machines throughout Australia to support the

production of Cushion Heads, Linear Adaptors and Plenums.

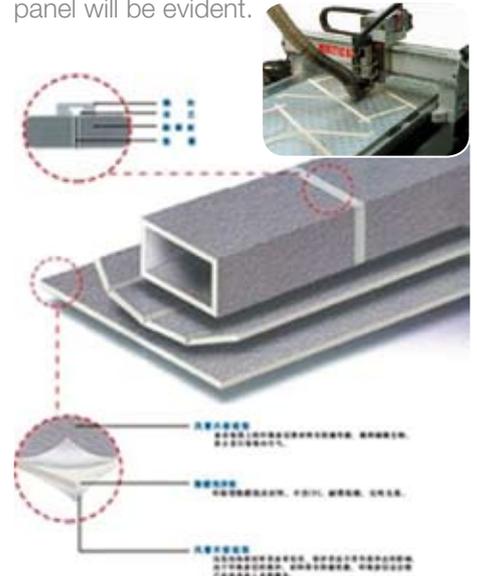
At just one fifth the weight of conventional ducting and with considerably greater air tightness, Premi-Aire™ duct products offer substantial site advantages.

This robust duct panel once assembled lacks little in strength when compared to conventional ductwork or fittings.

Holyoake Premi-Aire™ has been NATA Certified by 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 standards and warrants an ISO 9001:200 Certification.

The advantages of specifying Premi-

Aire™ products are many and varied. Whether you are located in the tropical far north or in the deep south across Australasia, the thermal properties, versatility and air tightness offered by products built with Premi-Aire™ duct panel will be evident.



Linear Diffusers CWD

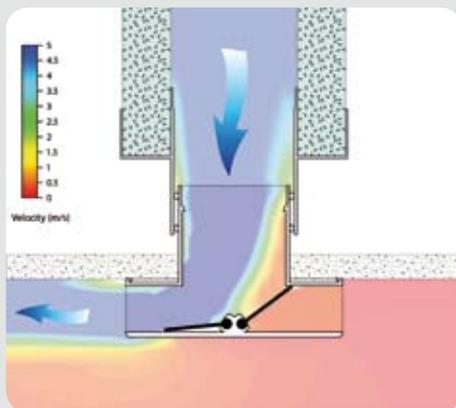
One of two Holyoake linear products to be introduced into the market in 2009, the CWD linear diffuser is certain to make its mark.

As with many of the products in the Holyoake range, the CWD Ceiling Wash Diffuser is supported by its own installation linear mounting frame (MF). The CWD is a unique linear product.

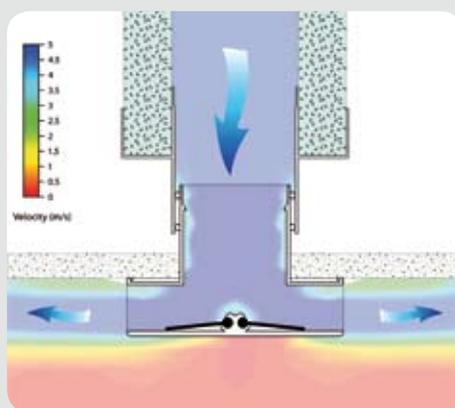
We have produced a purposefully designed perimeter zone and general purpose linear diffuser capable of airflow as high as a conventional four slot linear diffuser.

The CWD linear product provides variable exit velocity control, positive airflow or directional control, with variable throw. The CWD is suited to VAV applications and systems with high differential temperatures.

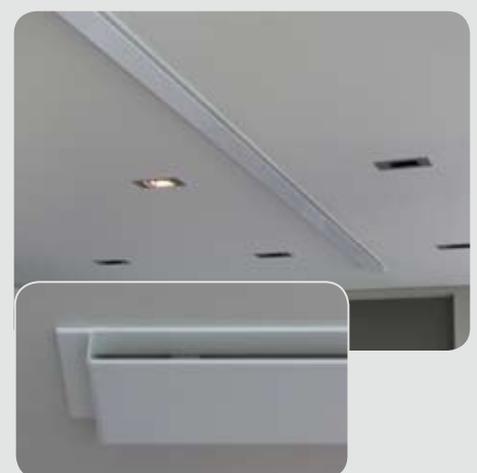
As the CWD linear diffuser is just one of two new linear diffusers to be introduced to the HVAC market by us this year, make sure you keep in touch with your Holyoake representative or nearest factory or sales office. The CJD will be released shortly and again offers a new concept in linear air diffusion.



CWD – Linear Diffusers One Way Air Pattern



CWD – Linear Diffusers Two Way Air Pattern



ANZ Headquarters – Docklands

High Performance features at Docklands

The development and rapid expansion of Holyoake Architectural products has been greatly enhanced by the experience and direction of Mr Peter Leddin. Peter brings more than 20 years of knowledge and experience to head up our dedicated factory, manufacturing and on site installation teams.

Holyoake are the market leader in façade weatherproofing through our range of Drainable, Closable or Ventilation louvres. The further development of Holyoake Architectural's dedicated products lines includes new 75mm and 100mm high weather ability knock down louvres.

The production team at Holyoake Architectural are capable of interpreting architectural inspiration and developing construction and site implementation plans. This ability won us the contract to develop and build the Atrium louvre system for Australia's Largest

office building, the 87000sqm, ANZ Headquarters at Melbourne's Docklands.

A demanding construction program tested all involved. Holyoake Architectural was commissioned to design and build the product to architectural specifications.

The next stage was to have it installed over ten floors of dynamic central atrium space, with some 800m² of highly finished architectural feature louvres.

We completed these works ahead of schedule, much to the satisfaction of the project developer Bovis Lend Lease.

Holyoake Architectural's success with the atrium louvre system was further complemented with a contract from GJN Facades to supply bar grille soffit louvres. These featured many shapes and sizes, which brought some challenging moments for our factory team.

Holyoake Architectural now features prominently in this landmark building located at 833 Collins Street, Victoria Harbour, Docklands, Melbourne.



ANZ Headquarters Docklands - Melbourne

Rimutaka Prison - Wellington

Prison Security Holyoake CPSHS

From time to time our clients need air distribution products that are designed to provide high levels of security.

At Holyoake, we have developed products with specialised characteristics for 'at risk' and 'high secure' areas within prisons, detention centres and prisoner holding cells. One of these products features in the recent development of Rimutaka Prison near Wellington, New Zealand.

The CPSHS product designed for Rimutaka Prison meets exacting standards as defined by our client NME Mechanical and prison authorities.

These stainless steel diffusers have been specifically designed for use in high security areas of the prison.

We are aware that the highly specialised facilities in corrections, health and defence require sophisticated product solutions in order to meet their essential in-service criteria.

After 56 years of research-based service to the HVAC market, we have the necessary experience to meet most special purpose applications, but that has also taught us that we don't know everything, so we appreciate design briefs that extend our knowledge envelope.



- One piece construction face plate (therefore no ledges).
- Stainless Steel 304 P89 perforated punched face for easy wash down.
- Small 2mm diameter hole to meet stringent personal safety specifications.
- Extended welded neck to allow full floor penetration.
- Rear clamping flanges ensuring no face fixings are required.
- Rear cross bar for additional strength and security.

velocity Feedback

We are more than happy to hear your comments about Velocity.

Please fill in the form and fax it to +64 9 274 4288.

Alternatively you can email your comments to auckland@holyoake.co.nz

The most interesting topics in the newsletter were:

I would like to hear more about the following topics:

Please send a copy of Velocity to a colleague:

Name

Address

Post Code Country

Please send a copy of Velocity by email:

Email Address

My address details have changed:

Name

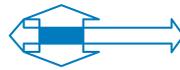
Address

Post Code Country

Email Address

Please send me more information on:

- Holyoake Training Facilities
- Holyoake FloEFD Modelling Software
- Holyoake Architectural Products
- Holyoake Premi_Aire™ Pre-Insulated Duct Panel
- Holyoake CWD Linear Ceiling Wash Diffuser



HOLYOAKE
AIR MANAGEMENT SOLUTIONS

AMCA Melbourne Marathon for Oncology Children's Foundation

It's great to see the Australian Mechanical Contractors Association getting behind and supporting the work of the Oncology Children's Foundation (OCF). Holyoake are proud to be part of the team competing at all levels in this years Melbourne Marathon 2009.

The Oncology Children's Foundation (OCF) is the only children's charity in Australia exclusively devoted to raising funds for medical research into childhood cancers. Our mission is to fund revolutionary research that will cure childhood cancer and give our kids the wonderful gift of life. Join our passionate team in the fight against childhood cancer and together we can make a difference.

Every year 700 children will be diagnosed with childhood cancer. Sadly, 200 of those children will lose their fight.

All funds raised by OCF are donated to The Oncology Research Units at The Children's Hospital, Westmead and at The University of NSW. The strength of our research program is dependent on public support. Your support will make a difference!

In the financial year 2008, OCF raised \$2,110,000 for the Oncology Research Unit (ORU) at The Children's Hospital at Westmead. The ORU is one of seven major children's cancer research units in the world that work as one for the benefit of all children with cancer no matter where they live.

Find out more information at www.ocf.com.au

Visit our fundraising website and donate to help us
http://www.everydayhero.com.au/AMCA_Victoria



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