

Muller Industries Australia



MULLER INDUSTRIES NEWS March 2010

GRANT HALL'S BLOG

Detroit a wake up to recycling

Having spent the best part of the last few months in the US establishing our California base and extolling the virtues of our world-renowned technology to the Yanks at the AHR Expo, I've come to appreciate just what a small world it really is.

So you can understand my surprise to read on the flight home that the US auto industry has taken our lead and is turning its attention to recycling its products – cars – and melting aluminium scrap to use in new car manufacture.

It's a familiar story because it's one we have been passionate about for the past two years as we've put in place a manufacturing policy which sees our units feature light-weight aluminium which is cheap and relatively clean to recycle. We expect that eventually, old 3C units will make new ones. Why? Because melting aluminium scrap costs about a tenth as much as smelting aluminium from bauxite due to the lower energy required. It just makes sense to use less virgin materials and recycle instead.

For us, these mono-materials also offer other benefits – including reduced corrosion and higher durability – it's a no-brainer!

In the US, the \$22 billion car-recycling industry is finally waking up. Cars are beginning to be built with their "end-of-life" in mind – and no wonder with an annual supply of 14 million old cars ending up in scrap.

A company in Detroit who recycles car metals is now looking at the other components – the non-metals that make up over 20% of a car – and turning those into energy via gasification.

Of course, we thought of that last year...

Grant Hall
Managing Director

27 Hi Tech Court
Kilsyth VIC, 3137
MELBOURNE, AUSTRALIA
Ph: +61 3 8761 6155
Fax: +61 3 8761 6719
Web: www.mullerindustries.com.au

Muller Industries Australia



MULLER INDUSTRIES NEWS March 2010

MULLER 3C FREE COOLING

Muller Industries is about to release a free cooling brochure outlining the nominal capacity of free cooling available in kW's from our 3C closed circuit fluid coolers.

For those unfamiliar with the concept, free cooling is a term widely used to describe the use of a fluid cooler in low ambient conditions to remove heat from the chilled water loop. In many cases, this supplementary cooling can completely take the place of the refrigeration chiller, using only fan power to create the chilled water.

The power saving on a 24 hour site such as a data center, hotel, hospital and even industrial cooling can be immense.

Another popular application is to use free cooling to pull down the mass of a building or a thermal storage or fire tank, using this water for the primary chilled water at the start of the next day.

“This is an exciting application that can really make some inroads into energy conservation and increase the payback story of the Muller 3C fluid cooler,” said Pete Schey, General Manager of Muller Industries.

Please contact Muller Industries if you would like to receive a copy of our free cooling brochure, or visit us at ARBS.

27 Hi Tech Court
Kilsyth VIC, 3137
MELBOURNE, AUSTRALIA
Ph: +61 3 8761 6155
Fax: +61 3 8761 6719
Web: www.mullerindustries.com.au

Muller Industries Australia



MULLER INDUSTRIES NEWS **March 2010**

SH09 HELPS AUSTRALIAN VINYLs CUT WATER

Australian Vinyls' engineers have adopted the latest water saving technologies, including the installation of Muller Industries' SH09 units, to help cut their Laverton facility's reliance on fresh water by half.

Opened by Victorian Premier John Brumby last month, the company's new water recycling plant will save 325 million litres of water a year, reducing reliance on Melbourne's valuable drinking water supplies.

Australian Vinyls General Manager, Mr David Cooper said, "For the company, the investment in this recycling plant makes both economic and environmental sense, allows us to grow our business with reduced risk of water constraints and reduces embodied water in Australian-made vinyl products."

The process of making vinyl resin, or PVC, requires a significant volume of high quality, low contamination water, all of which is currently purchased drinking water. The process also discharges waste water. Despite improving water efficiency over the past 10 years by almost 30 per cent, Australian Vinyls is one of the top 20 industrial users of potable water in Melbourne.

The company recognised that significant reductions in fresh water use could only be achieved with a large capital investment in water treatment and recycling. However, the necessary technology to recover water from the PVC production process had yet to be developed anywhere in the world, and an appropriate treatment plant technology needed to be tested and proven.

Australian Vinyls conducted a pilot plant evaluation of technologies and processes with the support of the plastics and chemicals industries association, PACIA, and EPA Victoria. The full-scale water recycling plant designed and built by the company's engineers uses an innovative approach to existing water recycling and effluent treating technologies to provide the high grade water required by the resin manufacturing process.

In its 2007 Budget, the Victorian Government recognised the value of this full scale project and contributed \$1.8 million to the project. The commissioned plant cost approximately \$5.5 million.

With the installation of this new treatment plant, and the water-saving benefits offered by Muller's SH09 units, Australian Vinyls will halve its potable water intake and reduce its trade waste discharge by 70 per cent per annum.

27 Hi Tech Court
Kilsyth VIC, 3137
MELBOURNE, AUSTRALIA
Ph: +61 3 8761 6155
Fax: +61 3 8761 6719
Web: www.mullerindustries.com.au

Muller Industries Australia



MULLER INDUSTRIES NEWS March 2010

AHR EXPO A SUCCESS

Not only did Muller Industries' 3C Cooler win the Refrigeration Category in the 2010 AHR Expo Innovation Awards, announced as part of the 2010 AHR Expo held in Orlando, Florida in January, but we also received terrific feedback from the US industry while we displayed at the Expo.

According to Grant Hall who was on hand to accept the award for Muller Industries, the AHR Expo Innovation Award only affirms the company's belief that their patented 3C Condenser technology is an industry leader.

"This is a purpose-built condenser for the 21st century and is light years ahead of traditional condensers," said Hall.

"End of use product recycling has been designed in, energy efficiency, refrigerant charge, peak energy demand, health risks, running costs – the list goes on. In the small to medium size range it doesn't get better, and we are pleased the judges of the 2010 AHR Expo Innovation Awards agree".

The Expo was attended by over 45,000 people, from over 120 countries around the world, making it the biggest show of its type. An astonishing 1823 companies exhibited.

According to Clay Stevens, President of the company who produces the AHR Expo, the show's success was built on the interest and demand for green, sustainable products and technologies.

"Hundreds of exhibitors were featuring energy-efficient solutions and we offered a variety of educational sessions built around these interests."

Next year, the AHR Expo moves to Las Vegas, from January 31 to February 2 2011.

27 Hi Tech Court
Kilsyth VIC, 3137
MELBOURNE, AUSTRALIA
Ph: +61 3 8761 6155
Fax: +61 3 8761 6719
Web: www.mullerindustries.com.au

Muller Industries Australia



MULLER INDUSTRIES NEWS March 2010

MULLER INDUSTRIES AFTERCARE

We made it. We supplied it. Now we fully guarantee it.

Muller Industries now guarantees our products longer than anyone else in the industry, with the creation of our new division, Aftercare, which is managed by Bob Prosser, who has been our Production Manager for the past three years.

Aftercare has put together the most comprehensive 5 Year Extended Warranty in the industry. For a small annual fee, Muller Industries will visit the site of the unit up to four times per year to maintain its “as new” condition.

If anything should go wrong, Aftercare will repair or replace any faulty component free of charge. The only exclusion is malicious damage caused by birds, weather, vandals etc, or consumables such as CeIPads.

“Our goal is to have every unit we supply well-maintained, running to its optimum performance and looked after as if it were still owned by Muller Industries,” said Bob.

Aftercare will be visiting every site where a Muller Industries unit is installed to see how the unit is running, and to discuss our Extended Warranty program with the customer or service manager.

For more information on Muller Industries’ Aftercare program, contact Bob on 0409 338 496 or bob@mullerindustries.com.au

End.

27 Hi Tech Court
Kilsyth VIC, 3137
MELBOURNE, AUSTRALIA
Ph: +61 3 8761 6155
Fax: +61 3 8761 6719
Web: www.mullerindustries.com.au