

# Blygold®

Australia

## BLYGOLD AUSTRALIA

### INSIDE THIS ISSUE:

<b>ENERGY SAVINGS</b>	<b>1</b>
<b>GSK REPORT</b>	<b>2</b>
<b>REXAN FRANCE</b>	<b>2</b>
<b>VOM TEST REPORT</b>	<b>2</b>
<b>RAMAT GAN</b>	<b>2</b>
<b>HONG KONG, BANK OF EAST ASIA</b>	<b>3</b>
<b>ANTI-CORROSION CASINGS</b>	<b>3</b>

#### BLYGOLD AUSTRALIA:

Director: Ray Van Haven

HEADOFFICE:

1/26-28 Octal Street

Yatala, QLD 4207

Ph: 07 3807 0660

Fax: 07 3807 0667

Email: [info@blygold.com.au](mailto:info@blygold.com.au)

Website: [www.blygold.com.au](http://www.blygold.com.au)

#### BLYGOLD NSW

Director: David Gorman

Unit 3, 5 Sefton Road

Thornleigh NSW 2120

Mob : 0418 962948

Ph : 1300 774705

Email : [nsw@blygold.com.au](mailto:nsw@blygold.com.au)

#### BLYGOLD QUEENSLAND:

Operations Manager:

Greg Hughes

1/26-28 Octal Street

Yatala, QLD 4207

Ph: 07 3807 0660

Fax: 07 3807 0667

Email: [qld@blygold.com.au](mailto:qld@blygold.com.au)

#### BLYGOLD VICTORIA:

[vic@blygold.com.au](mailto:vic@blygold.com.au)

#### BLYGOLD WA:

[wa@blygold.com.au](mailto:wa@blygold.com.au)

Dear Reader,

As we are getting closer to summer our A/C systems will be used more and more and our power bills will increase accordingly. We thought it would be a good idea to inform you about the energy savings that are possible and realistic with the correct anti-corrosion coil treatment.

We hope you find this edition as informative as the last one.

Best regards,



Ray Van Haven



### **WARNING:**

Because of strong corrosive elements in the latest dust storm we advise you to check and clean the coils of your heat exchangers.

For further information contact Blygold.

## ENERGY SAVINGS

Nowadays we are bombarded by news about energy savings, sustainability, going green and other issues that are so timely and relevant in the current climate, or should we say 'change of climate'?

Blygold has been conscience of energy usage and sustainability issues for over 30 years now. It has positively contributed to improving the performance of coils and air conditioning over the past three decades.

As a result Blygold has been internationally recognized as an important partner for A/C suppliers, maintenance companies and end-users in limiting the impact of A/C on power bills as well as the environment.

In this newsletter you will find research that supports our claims that we can improve the energy efficiency of your A/C system by up to 20% and double the lifespan of your units. This is because the lifespan of the chiller more often than not is determined by the lifespan of the coils.

So when Blygold limits or avoids the corrosion from occurring in these coils we can effectively not only save you substantially on your energy bill but also on your capital lay-out.

# SUBSTANTIAL ENERGY SAVINGS POSSIBLE

## GSK report: UK ENERGY REPORT - MARCH 2006:

The re-preservation of the condenser coils has given the condenser a life improvement of approximately 5 to 10 years. This will ensure the condenser will out see the natural usage of the chillers prior to their replacement due to the forthcoming legislation. The 15 year old chillers are now operating at close to their original specification and should cope with the demand for their maximum capacity in the forthcoming summer.

(for a full research report: go to [www.blygold.com.au/solutions-energy savings](http://www.blygold.com.au/solutions-energy%20savings))

**Strong reasons make strong actions.**

**William Shakespeare (1564 - 1616)**

## Test results at the French company Rexan

If corrosion occurs, pollution will adhere without any corrective or preventive measurements and the performance can decrease dramatically. And if we speak about the performance of a coil, which is related to airside pressure drop and thermal resistance, everybody knows that a treatment and professional cleaning is not only the key to a longer life time of the coil, but what is more important saving money on the energy bill.

This was found again in an independent test at the France company Rexan Beauty, located near Lyon. This cosmetics manufacturer has had a chiller (RTAB 212) for over three years. It is used for the manufacturer's production process, which runs 16 hours a day, 365 days a year.

The annual maintenance of the coils - which were made from aluminium without protective coating - during this period was periodical rinsing. However, after they found that the coils were extremely dirty, Rexan Beauty decided to have the coils professionally cleaned and treated with Blygold PoluAl.

Subsequent measurements showed that the coil performance increased:

- Lower pressure drops
- bigger air capacity
- better heat transfer

If treated with PoluAl anti-corrosion coating and cleaned thoroughly twice during the 5-year warranty period, the condenser would deliver its nominal performance. Provided the fouling conditions and cleaning by the customer. Compared to the cost of this treatment and the costs of increased energy consumption, this means that the **pay back period would be app. 2,5 months.**

Blygold warrants the anti-corrosion treatment for at least five years, incl. a two time thorough cleaning by certified engineers.

**Note:** The pay back period will differ in each scenario.

## VOM PoluAl XT test report:

The duration of the corrosion test for Blygold PoluAl XT is much longer than usual in the building industry. This means that when you can relate the laboratory tests to practical conditions the corrosion resistance of the coated heat exchangers is extremely good. The maximum adhesion after the long corrosion test confirms the quality of the coating for this application.

## Conclusions of Ramat Gan research in Israel:

The efficiency of the cooling units' performance increase after applying the Blygold coating to the condensers. Reduction in electricity consumption for air conditioning is obtained to the tune of about 10,000 KWh/ month. At a cost of 40 Agorot per unit (average) this represents a monthly saving of NIS 4000 or a yearly saving of NIS 48,000 (approximately A\$15,000). An additional saving, though not shown immediately, is the reduction of wear of the equipment due to the coating. The coating stops the wear of the coils and maintains existing conditions for many years. The cost of the renewal of a condenser coil is on average about NIS 30,000 whereas the cost of coating is about 1/3 of thereof.

(for a full research report: go to [www.blygold.com.au/solutions-energy savings](http://www.blygold.com.au/solutions-energy%20savings))

**TEMPERZONE CASINGS AND COILS TREATED WITH ANTI-CORROSION COATING BY BLYGOLD IN QUEENSLAND.**



**There are no shortcuts to any place worth going.**

Source anonymous.

**ANTI-CORROSION TREATMENT CASINGS**



In our August newsletter some readers had the impression that the final coating we use for the anti-corrosion treatment of casings was red only.

To clarify: the red is the anti-corrosion coating which then is painted over with any RAL color coating, as the photo above shows us.

The casing of this chiller was treated by Blygold NSW.

**HONG KONG, BANK OF EAST ASIA TEST REPORT:**

A research project also took place at the Bank of East Asia building at Wan Chai Hong Kong.

Four 100 RT - 30 GA 105 chiller coils were replaced due to deterioration.

Two of them were treated with Blygold coating. Hong Kong has a climate which is comparable with Australia, especially Queensland and Sydney.

The conclusion of the test report is:

The untreated coils became brittle to touch, where the Blygold treated fins remained uncorroded. In addition clear energy savings were realized.

(For a full research report: go to our website at [www.blygold.com.au/solutions-energy-savings](http://www.blygold.com.au/solutions-energy-savings))



**Blygold Australia**

Your partner in corrosion prevention.

