



ROWE SCIENTIFIC

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Quality System
Quality Endorsed Company
ISO 9001:2008
LIC 10372
SAI Global

A Proudly 100% Australian owned company, servicing the Scientific community since 1987

December 2014 - January 2015

NEWSLETTER

Client of the Month



FQM AUSTRALIA NICKEL

**FQM Australia Nickel Pty Ltd
Ravensthorpe Nickel Operations**

Ravensthorpe Nickel Operations (RNO), owned by FQM Australia Nickel Pty Ltd, a subsidiary of First Quantum Minerals Limited, is an open cut nickel and cobalt mine producing mixed hydroxide precipitate through a highly technical hydrometallurgical process. FQM bought RNO in February 2010, and has subsequently turned it into a stable, high production operation that employs over 600 people.

RNO's complex plant is supported by a state of the art laboratory that requires quality chemicals and reagents that deliver quality results. Rowe Scientific is an RNO preferred supplier due to the quality of their products, the accessibility and their customer service.

Winners are chosen by our computer on a random basis. The prize is the client's choice of \$100 worth of laboratory items from a supplied list.

Clever Person Quiz

Q: What is the central element in a molecule of chlorophyll?

Did you Know?

(Answer to last edition's clever person quiz)

Q: Which aqueous solution would be a better conductor of electricity; 0.1M potassium chloride or 0.1M sodium chloride?

A: Despite the potassium ion being larger than sodium, the potassium chloride solution is a better conductor in water because the larger potassium ion has its charge spread over a larger area, which results in coordination by less water molecules which actually results in a smaller/more mobile hydrated ion than sodium. This anomaly continues down group 1 of the periodic table with hydrated ionic radii of $Li^+ > Na^+ > K^+ > Rb^+ > Cs^+$.

Saying of the Month

*"An investment in knowledge pays the best interest."
Benjamin Franklin*



Have you seen it?

The new Rowe Scientific 'Mine-o-mobile'. Our mine site visiting vehicle being sported here by Chris Barnes from our Western Australian office in full dressage. This new vehicle allows us safe passage as we continue our dedicated visits to our remote clients.



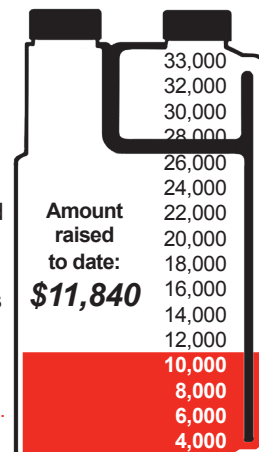
**PROUDLY SUPPORTING
THE ROYAL FLYING
DOCTOR SERVICE OF
AUSTRALIA**



Your purchases of Quantumclean, and pH buffers in the unique Rowe twin head bottles, will result in \$2 per item being sent to the RFDS to support this great Australian institution.

Rowe Codes:
Quantumclean CQ1050, CQ1000, CQ1100.
pH Buffers CB3515, CB3115, CB2660

**2015 TARGET
\$33,000**



Tales from the Service Desk

Swimming lessons for expensive instruments.

Under no circumstances do we recommend the above. And not wanting to talk 'out of school', so this will remain just between the two of us! Just recently this is exactly what happened to one of our customers. Whilst using their balance, the bench it was sitting on broke. This caused it to drop in to a bucket of salty water (what are the chances!!) The liquid quickly entered the case and it refused to work thereafter. When I inspected the balance the load cell was completely jammed and corrosion was apparent on every alloy surface. The balance was a write off.

Clearly this is a very unfortunate incident but does serve as a timely reminder for all of us. Accidents do happen and happily no one was hurt with this one. (well...maybe their pride!) As busy as we all get, it is always a good idea to "take 5" and just assess the risks associated with the current task. A couple of minutes spent here can sometimes save a life time of regret later.

Now, I can hear you all asking 'What's the best approach if this should happen to me?' I mean who hasn't dropped their mobile in to a swimming pool or worse still the toilet! Come on you can 'fess up', after all this is just between the two of us.

My recommended tips are:

1. Get it out ASAP – yes I know what that means re the toilet scenario. (long gloves perhaps?)
2. Rinse it with DI water a couple of times. (use tap water if no DI water is immediately available) You can even immerse it in DI water. If you used tap water initially always finish off with DI water. The reason for using DI water is to wash out all the contaminants from the original dunking.
3. Leave it to dry in the sun, or in a desiccator, or in a laboratory oven (40°C max) until it's completely dried.
4. If it's a mains powered item then have your on-site electrician perform an electrical safety test before plugging it back in. Alternatively send it to me and I will give it an electrical safety test for free.

I suppose it seems counterintuitive to drop your instrument in to DI water after you find it swimming somewhere else. However, my logic is that it's probably a write off after the first dunking so anything you do after that to clean it up may help. Good luck and may you never need to use this information.

Regards, **Brett Maconachie** (Service Manager)

Vacuum Desiccators



All Tarsons* Vacuum Desiccators feature:

- A flat-top dome lid to maximise interior space.
- An O-ring to provide tight seal.
- A desiccator plate included.
- Premium light-weight plastic material.

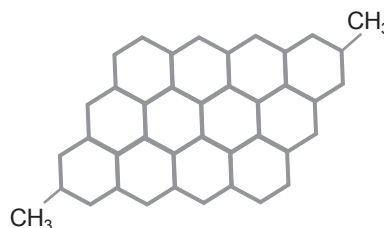
* ISO Accredited Company

ROWE CODE	PD1452 list \$139.32	PD1471 list \$191.16	PD1475 list \$271.53
Nominal Size	200mm	250mm	300mm
Flange O.D. of base	230mm	275mm	335mm
Inside Diameter	198mm	240mm	296mm
P.P. plate O.D.	188mm	229mm	290mm
Total Height	255mm	310mm	383mm

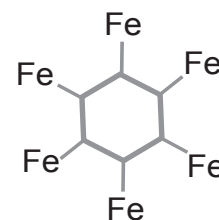
Offer expires 31 December 2014. Contact your local Rowe Scientific office to find out more.

ANSWERS TO STRUCTURAL FORMULAE FUN

WHAT IS THE NAME FOR EACH OF THE FOLLOWING COMPOUNDS



Dimethyl chicken wire



Ferrous wheel

(With apologies Kekule (1858))

More Information Required?

If you would like further information on any of the products featured in this edition, please contact your nearest Rowe Scientific Pty Ltd office.

CENTURION CENTRIFUGES

All Centurion centrifuges feature:



- ✓ Extra thick stainless steel bowl
- ✓ Quality European brushless motor
- ✓ Multi point lid locking
- ✓ Lid lock detection
- ✓ Overspeed sensor
- ✓ Simple touch screen



PRO-ANALYTICAL RANGE SPECIALS

ROWE CODE	DESCRIPTION	LIST	SPECIAL OFFER	QTY AVL
IC4160	CENTRIFUGE MULTI ROTOR SPEED 500-4000RPM 4X100mL CAPACITY FOR OPERATION ON 240VOLTS 50HZ	\$2851	\$2290	4
IR4122	ROTOR SWING OUT, 4X100mL - REQUIRES ADAPTORS	\$1353	\$1085	5
IA4120	ADAPTORS 15mL, TWO PLACE, TOTAL CAPACITY EIGHT TUBES, FOR BRK5505 ROTOR TO SUIT IR4122	\$436	\$350	3
IA4122	ADAPTORS 50mL, TOTAL CAPACITY 4X50mL, FOR BRK5505 ROTOR TO SUIT IR4122	\$436	\$350	4
IC4135	CENTRIFUGE, MICROHAEMATOCRIT MULTI ROTOR 500-12000RPM WITHOUT ROTORS 240V, 50Hz	\$2581	\$2071	1



IC0008
CENTRIFUGE HIGH SPEED 15,000 RPM, 22000 Rcf (G) FOR MICRO CENTRIFUGE TUBES 0.2 TO 2.2mL (without rotors).

List \$2732.32

SPECIAL \$2,322.00

- Extra thick SS bowl
- European brushless motor
- 108 memory programs
- Overspeed sensor
- Made in England



IR4110
ROTOR FIXED ANGLE 24 x 1.5-2.2mL, HIGH DOME SEALED POLYCARBONATE LID INCLUDED

List \$815.06

SPECIAL \$693.50



Viscometer (VP1050M) Rowe Code IV4001

Includes: Stand, carry case, batteries and 6 x spindles R2 - R7 Viscosity range 80 - 80,000 mPas

~~list \$3,737.00~~

special \$2,690



Viscometer R1 spindle

Rowe Code IV4003

Viscosity range 20 - 200 mPas

~~list \$400.40~~

special \$284.00

Call your local Rowe Scientific Office to find out more.

Dear Clients,
Greetings from the South Australian office.

Our Vintage Price List for 2014/15 is now finished and hot off the press. Daniel and I will be distributing this to all our winery clients before this newsletter goes out. If you haven't got your copy by the time you read this then please contact us and we will send out another.

Hopefully you all saw my last note about preparing and planning for Christmas and manufacturers closing down over the break. Even if you don't get time to put a plan into action, our office will be manned over the Christmas period except for the Public Holidays. We will do our best to help you during this period but remain dependent on which courier companies are operating.

I would like to also remind you we are an official distributor for the complete range of Centurion Centrifuges. Hopefully most of you saw our latest email promotion about these units. They are quality instrument made in the UK and come with a 3 year warranty!! If your Centrifuge is looking a little old and worn out, it might be time to start looking into another model.

All the best from,
Doug, Steve, Kate, Mark, Michael, Daniel, Paula and Lee.



Doug McPhee
Adelaide



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Dear Clients,

Christmas Greetings and good cheer for the New Year to all our clients, and what a year it has been. Looking back to the beginning of the year we can confidently say there have been many challenges along the way. This is all good and has helped our staff as well as our business to grow and to keep focused on you our clients.

We wish you and your families a safe and very Merry Christmas and we thank you for your support throughout the year. To our more recent clients, we thank you for your initial purchases and we hope to continue to serve you well in the year ahead.

Ho Ho Ho from the Queensland team: Yvonne Dive, Martin Bullock, Brian Bishop, Sean Wyatt, Josephine Cabagui, Leon Dive, Sean Afflick, John DeRuyter, Steve Taylor, Adam Bergman.



Yvonne Dive
Brisbane



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Dear Clients,

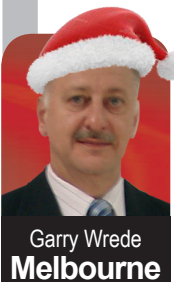
Who says time doesn't fly?? ...we're almost there, another year bites the dust, so here's wishing you all a MERRY Christmas and a truly prosperous New Year.

To you, our customers in Victoria, THANK YOU for your support through 2014, we hope we lived up to your expectations. Our "new" warehouse is filling up with stock meaning that lead times on critical stock will be shorter. If there are any items you feel we should have on this "ex-stock" list please let us know.

For those of you monitoring the air around us, keep an eye open for the Gilian specials that will be coming your way soon. We are also promoting Velp products during December, so if you need a new sample digester, distillation unit, hotplate or stirrer, put it on your Christmas list.

Drive safely during the festive season and we look forward to hearing from you in 2015.

Your team in Victoria, Garry, Joe, Mango, Nic, Daniel, Adam and Brian



Garry Wrede
Melbourne



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rowevic@rowe.com.au

Thank you to all of our loyal clients for their support throughout the year and we wish you all the best in 2015.

Other than for the gazetted Public Holidays, Rowe Scientific will remain open over the Christmas Holiday period. All states have a full complement of staff available in all departments to assist with your enquiries.

We look forward to your call ... whatever your business, whatever your needs.

I hope the season is a festive one for you and yours, and look forward to working with you in 2015.

All the best from the team in Perth.



Peter Sommers
Perth



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Fax: +61 (08) 9302 1905
rowewa@rowe.com.au

Dear Clients,

Another year has come and gone and Christmas is nearly upon us. We thank you for your business throughout 2014 and we look forward to being of service to you in 2015.

The NSW office will only be closed for the public holidays, and we will be working a skeleton staff to maintain supply to our clients in case of emergencies. Our Kendall Parsons over the next couple of weeks will be travelling to the winery regions to distribute the new Rowe Scientific 2014-15 vintage price list, however if you missed out don't hesitate to contact us here in the NSW office to secure your copy.

We look forward to an exciting 2015, and on behalf of the staff here in the NSW office, I hope you have a Merry Christmas and a safe New year.

All the best, Troy, Kendall, Adam, Ken and Rodney.



Troy Boland
Sydney



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