

# Outlet

The Official Reece Customer Update

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We welcome your **feedback** so please send any comments by e-mail to [outlet@reece.com.au](mailto:outlet@reece.com.au) or by fax to **(03) 9274 0131**.

In this issue



10 top designs for water stressed cities

P02



Is your garden as smart as it looks?

P03



Reece Roadshow Winner Announced

P04



THE CRACK The toilet top 10

P04



## The world's best electrofusion technology is now available through Reece.

A global market leader and pioneer of electrofusion since the 70's, FRIATEC is the name behind many of the industry's leading technologies. Friatec's patented and world-renowned electrofusion range is the first choice on major commercial, civil, mining and irrigation projects globally. Intensively focused on quality, their innovative German made system improves speed of installation without compromising the longevity of the connection.

### Exposed heating coil design.

Using a highly efficient, exposed heating coil design, FRIATEC's electrofusion system provides ideal heat transfer from fitting to pipe, delivering a faster and more precise weld. The heating coils are embedded two-thirds of the way into the fitting, so they simply cannot be dislodged. What's more, the unique design eliminates the risk of contamination through oxidization.

### Longer coupler length.

To guarantee outstanding performance, FRIATEC's couplings feature extra-long fusion zones to absorb energy while offering improved safety and stability. These zones are up to 2.7 times longer than the required standard. Longer coupler length translates to better pipe support and better alignment inside the fitting. This reduces bending stress and ensures no loss of melting pressure.

### A fit for every purpose.

The Friatec system offers a full range of couplers from 20mm – 1200mm in diameter and each coupler is available in a choice of three different pressure ratings. Friatec also offers elbows in 11°, 30°, 45° and 90° as well as pressure tapping tees and saddles.

### Smarter welding.

Lightweight and easy to transport, FRIATEC's advanced FRIAMAT Electrofusion welder takes all the work out of creating the perfect weld. With the built in barcode reader, you simply scan the code on the fitting and the welder adjusts every variable to create the perfect weld – even automatically changing the welding time based on the ambient air temperature. Fan cooled for continuous operation, the welder runs off a 10amp plug, making it suitable for use with a standard power point or generator.

To find out more about the Friatec range, visit [reece.com.au/friatec](http://reece.com.au/friatec)

reece  
**REECE  
GRANT**  
update

Last year, we granted three inspiring Australian tradies with the funds to kick-start a water project of their choice. Each project was designed to make clean water and basic sanitation available to those who need it most.

Justin Morris, Timothy Brideson and James Millis have completed their projects and are back in Australia feeling more inspired than ever.

We're excited to share with you their eye-opening experiences via on-the-ground video, images and more.

Tune in to Reece Grant online for insights into Justin's trip to India, James' project in East Timor and Timothy's experience in the Philippines – via [reece.com.au/grant](http://reece.com.au/grant).

# From New York to Seoul: 10 top designs for water-stressed cities

Water-saving ideas are being incorporated into building designs around the world. Check out these top designs from some water-stressed cities, including living walls and compost toilets.

## 1. The Bullitt Centre, Seattle, Washington

Underneath The Bullitt Centre's solar panels, a parapet roof captures rainwater, which is then transported to the basement via a network of filters, producing potable water. Meanwhile, greywater from sinks and showers is collected and filtered through a man-made wetland before going back into the soil to maintain the local aquifer. The building also has compost toilets, which use only two tablespoons of water per use.

## 2. The Rubens living wall, Victoria, London

Designed to reduce urban flooring, the living wall on the side of The Rubens at the Palace hotel contains more than 10,000 herbaceous plants and is over 20 metres high. Rainwater is captured in storage tanks on the roof then slowly feeds into the wall. The wall not only reduces the volume of rainwater reaching the streets, it attracts wildlife and reduces air and noise pollution.

## 3. Starbucks Coffee, Chicago, Illinois

Water-efficient architecture is one thing, but if huge amounts of water are required to build the designs then there's still a lot of work to be done. This Chicago coffee shop is built out of recycled shipping containers. A good example of upcycling, where materials are salvaged and repurposed.

## 4. The SAHMRI building, Adelaide

As well as its energy-efficient design, the South Australian Health and Medical Research Institute's cooling towers and toilets use harvested rainwater and reused processed water instead of potable water. An integrated building system provides real-time data on energy and water consumption.



5



6



7



8



9



10



1



2



3



4

## 7. The Edge, Amsterdam

As well as its passive temperature control, beautiful energy efficient design and energy-generating technology, this office building captures rainwater and stores it underground for use in flushing toilets and to water plants in surrounding gardens.

## 8. Skygarden, Seoul

Architects are transforming an abandoned highway in the middle of the city into the Skygarden, an arboretum of trees, shrubs and flowers. Visitors can enjoy a picnic on all-natural lawn the size of three football pitches. Replacing impermeable surfaces with green spaces such as these helps cities cope with excess water.

## 9. Bioswales, New York

These attractive urban features act like drains, enabling rainwater to be absorbed by soil as it runs down street gradients. Any water that is not used by the trees and plants can be slowly released into the surrounding soil, reducing the risk of flooding.

## 10. Masdar City, United Arab Emirates

Masdar City was built to demonstrate that cities can be sustainable, even in the harshest climates. The replacement of taps with sensors, for example, has apparently cut water use by 54 per cent.

## 5. O-S House, Racine, Wisconsin

Two thirds of the rainwater this family home receives is fed into a groundwater percolation area; the rest is stored in large rain barrels and used for small maintenance projects and to water the vegetable garden. The driveway, entry path and terrace are permeable to avoid putting strain on the city's sewer system, which in the past has been forced to send untreated water and sewage into Lake Michigan during heavy storms.

## 6. Water-generating billboard, Lima

This billboard doubles as a water generator. In Lima, rainfall might be minimal but humidity is high so generators can condense and filter the air moisture to obtain bulk water.

Source: <http://www.theguardian.com/sustainable-business/gallery/2015/oct/21/new-york-seoul-ten-top-urban-designs-cities-water-sustainable-architecture-living-roofs>

# Cracking the case

With the release of The Water Services Association of Australia (WSAA) code for governing spaces, contractors can no longer use make-shift casing spaces to centralise their pipe during installation.

Casing spacers are used for the protection of carrier pipes when installed inside casings. Many contractors have been using hand-made wooden spaces as a shortcut which, according to Jason Linaker of Kwik-ZIP, are simply too risky.

"Over time, timber rots away leaving either gaps in the grouting, or if grouting isn't used, the pipe will move once the timber is no longer able to support the weight. There is also the risk with timber that it will wear away as it is run in," says Jason.

"Although spacers are usually a small part of the overall pipe installation process, correctly

designed and fitted spacers can significantly increase the life expectancy of the carrier pipe by keeping them free from corrosion, casing damage and overall wear," he says.

Kwik-ZIP HDX Series Spacers are the only ready-made Australian product that complies with the new standards and are made from a high-grade thermoplastic material with integrated rubber pads for slip resistance.

On-site assembly of the Kwik-ZIP spacers is easy with no specialist skills required. "Flexibility of the design means various runner heights can be achieved, allowing for different pipe and casing combinations," says Jason.

Kwik-ZIP can be purchased through all Reece Civil stores. For more information visit [www.kwikzip.com](http://www.kwikzip.com) or to find your nearest Reece Civil store visit [www.reece.com.au/civil](http://www.reece.com.au/civil).





1st



Laurie Barnes – QLD



2nd



David James – NSW



3rd



Joe Giacobbe – SA



# Is your garden as smart as it looks?

To celebrate beautiful landscapes and gardens around the country Reece Irrigation launched 'Beautifully Smart Gardens' – a competition to track down not only the best looking garden, but also the "smartest".

More than 20 landscapes were entered, each showcasing the irrigation secret(s) that keeps their garden lush and healthy.

Eric Barsky, Reece Irrigation Business Development Manager was impressed with the level of gardens and landscapes submitted.

"It was exciting to see so many people on-board with smart irrigation who understand the benefits it can bring for not only saving water, but keeping landscapes and gardens full of life all year round."

"We had some amazing gardens on display and it was a fantastic way to celebrate the important work of our customers," said Eric.

Laurie Barnes' beautiful oasis in Clifton Beach, Cairns was placed first, winning the prize of

\$2000 cash. The judges awarded Laurie for the diverse landscape of lush tropical plants to semi arid. Something hard to monitor and control without sophisticated irrigation tools such as the Weathermatic system used for this property.

David James took out second place for his outstanding beachfront landscape in Cronulla, NSW, winning him \$1000 cash. Not only is this garden easy on the eyes, it is designed to be easy on the environment. The green walls run on a drip system using minimal water and water collected on the site supplies 200,000 litre storage tanks.

Joe Giacobbe from Holdfast Bay in SA was placed third for his approach to sustainable gardening, winning him \$500 cash. The judges awarded Joe for his wise plant selection taking into account specific areas in the garden.

Congratulations to all the entries of Beautifully Smart Gardens!

Check out the Smart Gardens entries at [www.reece.com.au/smart-gardens](http://www.reece.com.au/smart-gardens)

## Australian refrigeration industry urges government to get tougher on HFCs

The need to help curb climate change by phasing down production and consumption of HFCs, powerful greenhouse gases, and deliver energy efficiency in HVACR is being recognised by governments worldwide.

With air conditioning and refrigeration units the leading source of energy use and emissions in the built environment, the shift to an energy efficient, low emissions industry is becoming critical.

The Australian Refrigeration Association (ARA) and over 80 signatories have called on the Australian government to use F-Gas style legislation to bring HFC emissions under control.

The ARA is recommending a more ambitious strategy for HFC phase-down than its policymakers have proposed, including F-Gas style record keeping and leakage detection requirements.

According to the ARA, if HFCs are not phased down rapidly, the world has a small chance of achieving the required degree of global warming control. The ARA thinks more consideration

should be given to the European Union legislation addressing HFC phase-down, which they believe is far more concrete and specific.

Aligning the country with a global phase-down would bring technology benefits, as Australia's cooling industry already has natural refrigeration technology necessary to replace HFCs.

The ARA believes that since low global warming potential (GWP) technologies are already available in every sector, a relatively short notice period of a few years is sufficient to enable the industry to transition: by sourcing the required technology and preparing their supply chain for its availability.

The ARA has pushed for mandatory reporting of refrigerant use, noting that contractors already collect this data for invoicing purposes. The result will be faster leakage reporting, faster and

more focused maintenance, increased energy efficiency and reduced refrigerant emissions.

As part of its strategy it suggests an upgrading of industry standards in order to enable the industry to deliver both safe practices and enable transition to low GWP technology. The ARA would enable the introduction of a penalty or licence retention scheme that would further discourage intentional or unnecessary releases of environmentally harmful substances.

The ARA says that the cost of implementing such measures should not be seen merely as a cost to the industry, but as a saving of emissions costs. It proposes a levy on refrigerants at the point of sale, based on emission, with natural refrigerants exempt and all collection costs to be carried by the refrigerant distributors.

The organisation understands this all needs to be underpinned by proper regulatory enforcement and improved training; by the government embedding it in its procurement strategies; by better benchmarking of HVACR installations with regard to emissions; and by improved end of life management.

In its submission, the ARA has said the HVACR industry, including suppliers, licensees, specifiers, consultants and 23 million end users who enjoy the benefits of HVACR are all informed about its energy efficiency and environmental impact.

The opportunities are plentiful for HVACR stakeholders should these proposed changes be made. Among the many benefits is more work for HVACR suppliers, cost savings for end users and national competitive advantage if Australia leads the transition.

Sources: <https://www.racplus.com/news/-australian-refrigeration-industry-urges-its-government-to-get-tougher-on-hfcs/8692626.article>, <https://sourceable.net/natural-refrigerants-are-the-future/>, <https://sourceable.net/who-is-responsible-for-getting-hvacr-right/>

# The Crack

## The toilet top 10.

Each year, World Toilet Day draws attention to the plight of 2.4 billion people globally who do not have access to basic sanitation.

In 2015, the World Toilet Day organisers did something a little bit different to raise awareness around this important issue. They put together a list of the world's most interesting toilets – and some of them are simply amazing. Here is a sneak peak at a few of the best.



### Private party

At first, it looks like these toilets at Tokyo's Narita Airport have no real privacy. But the silhouetted figures are video projections of contemporary dancers, not the occupants.



### Loos with views

The Sky Restroom is the highest toilet in Seoul. It's on the observation deck of the 237-metre-high N Seoul Tower. The luxurious toilets, likened to an art gallery, have become a tourist destination in their own right and offer breathtaking views of the city.



### Full transparency

At this vertical Glass House in Shanghai, there are no windows – just all-glass floors and roofs that make the house see-through, with the toilet in full view from the dining table above. That should make for interesting dinner party conversation!

Source: [www.commercialrealestate.com.au/news/world-toilet-day-2015-ten-surprising-toilets/](http://www.commercialrealestate.com.au/news/world-toilet-day-2015-ten-surprising-toilets/)

## Reece Roadshow Winner Announced

The 2015 Reece Roadshow was a huge success. Hundreds attended the eight events around the country, taking part in activity challenges and attending special training seminars hosted on the night.

Those who attended and completed the Roadshow Challenge were entered into a draw for a chance at the Big Prize: an all-expenses paid trip for two to Munich, Germany.

We're delighted to congratulate the lucky winner of the Big Prize, Shane Fens from Queensland. Shane will enjoy return flights for two, 10 nights accommodation, \$5000 spending money and \$1000 towards internal flights.

When told he'd won, Shane was ecstatic: "I received the call and thought they must have the wrong person! The only thing I've ever won is a meat raffle, so this is a very big deal."

Shane plans to take the trip in September this year with his partner, Margie. The lucky couple will extend their trip and visit Holland, Frankfurt



and Spain, where Shane will visit some of the largest manufacturers in Europe and their facilities.

"I'm looking forward to seeing how things are done on that side of the world. We've also never been to Europe before so it'll be great to visit friends and family we haven't had the chance to see until now," said Shane.

Congratulations again Shane and thank you to everyone who participated and attended the 2015 Reece Roadshows.

This year's events are expected to be even better, showcasing the latest product and tool demonstrations, special training seminars hosted by industry experts with another Big Prize up for grabs. We hope to see you there!

## Expanding the network

### Relocation

**Reece Plumbing Richmond (Formerly Plumbing Hilton)**  
223 Richmond Road, Richmond SA 5033

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Email [richmond.plumbing.sa@reece.com.au](mailto:richmond.plumbing.sa@reece.com.au)

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Fax (07) 5452 8929

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### Branch Closure

**Reece Plumbing Gladstone**  
30 Chapple Street, Gladstone QLD  
Closest Reece branch is South Gladstone

## Main Price Changes

For the full list of price changes or if you have any queries, please see your Reece Branch Manager or visit [www.reece.com.au/outlet](http://www.reece.com.au/outlet) for further updates.

Supplier	Products	% Increase	Date Effective
Abey Australia	Across most products	5-10%	1 February 2016
Agru Australia	Civil fittings (WA only)	4-6%	1 February 2016
ASI JD Macdonald	Washroom equipment	Various %	1 February 2016
Bolle Australia	Safety products	Various %	1 February 2016
Cibo Design	Vanities & bathroom furniture	Various %	1 February 2016
Dy-Mark (Aust)	Marking paint	Up to 2%	1 February 2016
Enware Australia	Not all products	Various %	1 February 2016
Firequip	Galvanised roll groove range	Various %	1 February 2016
Gemini Industries	Bathroomware	Various %	1 February 2016
George Fischer	Plastic pipe & fittings	Various %	1 February 2016
Grundfos Pumps	Pumps	Various %	1 February 2016
HB Fuller International	Silicone	Up to 4%	1 February 2016
Kingspan Insulation	Insulation	2-6%	1 February 2016
Mascot Engineering	Drainage products	Various %	1 February 2016
McIntyre Steel Industries	Builders hardware	5%	1 February 2016
Moody & Winter	Plumbing miscellaneous	Various %	1 February 2016
Peter W Eldering	Brassware	Various %	1 February 2016
Polyplas International	Industrial clips	Up to 7.5%	1 February 2016
Rehau	All water & gas pipe & fittings	2%	1 February 2016
Repelec (Aust)	Plumbing miscellaneous	Various %	1 February 2016
RX Plastics	Galvanised S/S pipes & fittings	7-10%	1 February 2016
Saniflo Australasia	Macerators & lifting stations	Various %	1 February 2016
Soudal	Silicones & sealants	Various %	1 February 2016
Stanley Black & Decker (Aust)	Tools	Up to 8%	1 February 2016
Tasman Sinkware	Sinks & troughs	3-5%	1 February 2016
Thermogroup	Mirrors & heated towel rails	Various %	1 February 2016
Vinidex	Pits & accessories, LD polyethylene pipe & ductile fittings	4-10%	1 February 2016
Bluescope Lysaght	Fasteners only	8.5%	1 March 2016
Bostik	Silicones & sealants	Various %	1 March 2016
Caroma Dorf	Sanitaryware, baths, tapware, kitchen & laundry products	2-7%	1 March 2016
Fletcher Insulation	Pipe insulation products	6%	1 March 2016
Repelec (Aust)	Amprobe, fluke test & measure only	Various %	1 March 2016
Rinnai Australia	Hot water - all products	Up to 5%	1 March 2016
Sutton Tools	Drill bits	Various %	1 March 2016