

## About OTEK Systems



The industry leading OTEK laundry system is now successfully installed in every sector of the laundry landscape from small commercial establishments to large public and government facilities.

Employing Ozone gas as a cleansing and disinfection booster the OTEK system exploits ozone's highly active energy state to replace the use of heat in accelerating the work of the water and chemicals. The process speeds up the destruction of soil and micro-organisms.

Ozone gas is a tri-atomic allotrope of oxygen, in other words there are three atoms to an oxygen molecule instead of the normal two. And since Ozone is unstable, in a wash cycle the extra atom disengages and combines with other chemical molecules, boosting their properties while simultaneously oxidising and decomposing soil.

The activity of ozone also expands the weave of the linen, helping to release ingrained soil and chemical re deposition. The result - improved cleanliness, enhanced whiteness and colours and a high level of disinfection.

## Key benefits

The patented OTEK laundry system utilises 185 nanometre ultra violet lamps to form small amounts of ozone. The ozone is then fed into the laundry machine throughout the whole length of the wash and OTEK customers benefit from an industry leading solution that:

- ☼ Outperforms all existing ozone systems in the market place.
- ☼ Is quick and easy to install with minimal ongoing maintenance.
- ☼ Is suitable for washing machines from 5 to 350 kg.
- ☼ Costs half the price of most other systems currently available.
- ☼ Immediate savings through attractive OTEK rental plans.

With more than 500 installed systems, small and large, OTEK laundry systems continue to produce outstanding results with many customers reporting:

- ☼ Laundry productivity improvements of up to 33%
- ☼ Reductions in utilities costs of up to 40%
- ☼ Reductions in energy costs of up to 90%
- ☼ Reduced carbon footprints of up to 40%

In essence OTEK Laundry systems are not only self liquidating but deliver substantial cost and performance improvements in every key performance indicator.

## Reasons to choose OTEK

- ☼ Reduce your **laundry operating costs** by an average of 50%
- ☼ **Productivity** savings of up to **30%**
- ☼ **Reduce your water** use by up to **50%**
- ☼ **Reduce your energy** use by up to **90%**
- ☼ **Reduce your dryer gas** use by up to **40%**
- ☼ **Cold** water washing
- ☼ OTEK helps **reduce your chemical costs** by boosting their performance.
- ☼ Dramatic savings in **Washing and Drying cycle times**.
- ☼ **Reduce machinery maintenance costs** (e.g. Heating elements not used ) and extends the life of your equipment.
- ☼ Will dramatically reduce your **Carbon Footprint**.
- ☼ Cleaner and colder waste effluent to the drain can **reduce water board charges**.
- ☼ **Linen life increased** by more than 300% in most cases As defined by EMPA 224 testing with AWTA (Australian Wool Testing Authority LTD)
- ☼ **Kills pathogenic bacteria**, viruses and other micro-organisms. Meets the Australian Laundry Standard guidelines for disinfection **AS4146-2000**
- ☼ Laundry is **whiter, fresher, softer and fluffier** after washing and drying.
- ☼ No capital outlay. **OTEK units pay for themselves** and more on their savings.
- ☼ Ozone reverts back to oxygen on completion of its function. **No residue on linen.**
- ☼ OTEK deodorises the fabric. **No residual odours on linen.**
- ☼ A **modular unit** for individual machines means the laundry keeps operating in the unlikely event of a unit breakdown.
- ☼ Product **developed and manufactured in Australia**



## Customer Stories

### Upper Jindalee, Weeroona and Laurieton Lakeside Aged Care

They don't call Derek Gillmore the 3 million litre man for nothing!

Derek, Project Manager for three aged care facilities in NSW and the ACT has managed to achieve this amount of water saving over a year since installing the new OTEK Laundry System. And in another win for the environment he has also realised a huge saving in CO<sub>2</sub> emissions. Even more importantly the bottom line has been improved by over \$38,000.

Over the three sites; Upper Jindalee, Weeroona and Laurieton Lakeside, there are six 23 kg machines servicing a total of 300 residents and with many varied responsibilities to take care of, Derek was generally satisfied with the three laundry operations. However, this didn't stop him taking on board the offer of a free trial from Ozone Technologies as it's important for him to explore any opportunity that has the potential to increase efficiencies.

The trial definitely proved beneficial; as well as demonstrating how possible it was to make the substantial savings, it also revealed that the wash chemicals were not being successfully pumped into the machines.



#### Laurieton Lakeside Aged Care Residence

It also highlighted the fact that the heating elements in the washers were being used providing an explanation for their rising energy costs.

Derek particularly liked the fact that all the laundry and nursing staff received thorough training not just on how to use the new system but also on laundry procedures which he sees as critical to achieve maximum efficiency.

All important bacteria testing was carried out on each site giving Derek great confidence in delivering a high level of standards compliance. And whilst Derek is delighted with the new system, the teams in the laundries are also very appreciative 'Everything is a lot faster, the linen is brighter, with a fresh smell.'

#### Annualised benefits from the OTEK System

- Over \$38,000 in cost savings
- Productivity improvements of more than 30%
- 19,400 Kg of CO<sub>2</sub> emissions saved
- 3.2 million litres of water saved



## Customer Stories

### St Heliers Correctional Facility NSW

St Heliers Correctional Facility laundry has been enjoying nearly \$4,000 in savings a year since embracing new ozone technology back in August 2007.

William Holland, Manager of Industries at the facility, is pleased to share the many benefits they have experienced since the OTEK Laundry System was installed in August 2007.

The laundry services 250 inmates and is run as a commercial operation as well as providing an educational environment for inmate education in TAFE NSW courses. It runs 10, 50 Kg machines and was typically running 42 washes every day. Since installing the OTEK system, William has measured the changes in water, gas and power consumption.

Previously, water consumption had been at 4.37 mega litres per year but this now sits at just 2.78 – this means they are saving over 30,000 litres of water every week which not only cuts their costs by \$2,385 each year but has a positive environmental impact.

As the ozone technology delivers better results but in cold water, the requirement for hot water washes has been reduced. This has impacted gas consumption by 32%, or, in dollar terms, nearly \$12,000 each year. Just as importantly, it also means the need to maintain, repair and replace hot water systems has been eliminated. William also found that the new system delivered much faster wash and drying times. The impact on electricity usage was a



#### St Heliers Correctional Facility Muswellbrook NSW

38% reduction (\$1,448 saving per year) but it also means that the laundry has increased efficiency with the average per day washes going from 42 to 61. Over time on weekends during periods of excessive demand is now a thing of the past.

Whilst William has been impressed with savings on the facility's utility bills, he has been pleased to see improvement in the quality of the wash both in whiteness and the feel of the linen. In fact they have stopped using fabric conditioner altogether which used to cost them \$1,449 each year.

And, with the move from hot to cold water and using less concentrated form of bleach, linen life has increased 30%.

Having a new system that delivers all these benefits has been positive for efficiency and for the facility's budget management.

However, William says the true value of the OTEK system is the fact that it provides compliance equal to that provided by thermal disinfection; a standard that has previously been lacking in other ozone technology laundry systems.

William has been happy to share how impressed he is by the system and by the team at OTEK - so much so that he is confident and keen to recommend rolling out the system to other laundry facilities.

#### Annualised benefits from the OTEK System

- 32% reduction in gas costs
- 38% reduction in electricity costs
- 14,500 tonnes of CO<sub>2</sub> emissions saved
- 1,589,952 litres of water saved
- 45% increase in productivity