

## Case Study

# Trial of Sterilwave at a Regional Victorian Hospital

Public hospital servicing a growing regional health district in Victoria.

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Beds



## The Challenge

### Rising Costs and Operational Challenges

A regional Victorian public hospital was facing rising costs and operational challenges with its external clinical waste disposal program, spending more than \$116,000 annually.

The facility was experiencing elevated disposal costs and logistical complexity associated with transporting clinical waste to metropolitan facilities. This reliance on external waste providers created inefficiencies and risks, while increasing financial pressure.

The hospital wanted a safe, compliant, and sustainable solution to:

- reduce the cost of clinical waste disposal which was increasing by approx. 11% year on year.
- minimise dependence on external waste providers.
- ensure compliance with strict Victorian health and waste management regulations.

## The Solution

Hipac supplied the Sterilwave 100 unit for a three-week onsite trial. During the trial, the Sterilwave was evaluated on:

- operational effectiveness in a live hospital environment.
- treatment volumes and waste reduction.
- comparative cost efficiency against external disposal methods.

## The Results

The trial delivered significant benefits for the hospital:



### 67% Waste Volume Reduction

Reducing disposal from 1.5 × 660L bins to 1 × 240L bin.



### 24% Waste Weight Reduction

Cutting nearly 800kg of clinical waste to approx. 600kg of sterile output.



### 49% Cost Savings Over 5 Years

Projected financial modelling showed the hospital could achieve estimated savings of \$407,500 over five years (49%) by adopting Sterilwave for ongoing use.



### Instantaneous Treatment

Real time sterilisation minimised infection risk, reduced odour, and managed waste fluctuations without overflows or collection delays.



### Increased Space Efficiency

Reduced the amount of stored waste provided more space for other use.

## Conclusion

This Sterilwave trial clearly demonstrated the value of onsite clinical waste treatment for regional hospitals. By reducing waste volume and weight, ensuring safety and compliance and cutting reliance on external contractors, the hospital was able to achieve:

- significant cost savings.
- greater operational control.
- a more sustainable, long term waste management solution.

The Sterilwave solution proved to be a practical, reliable, and scalable approach for this hospital seeking to modernise and future proof their waste management.

### ABOUT HIPAC

Operating at the forefront of healthcare, we strive to redefine what's possible. We provide superior products, design expertise and total solutions to help create environments where nothing stands in the way of patient care.

#### Contact information



1800 75 93 93



info@hipac.com.au



www.hipac.com.au

