



# Ultra Clean Cart

HEPA Cart



# INTRODUCTION

*Designed and manufactured in Australia to the highest standards, the UltraClean Cart is the essential tool for maintaining sterile environments. Equipped with a powerful filtration system, it effectively traps dust, fibers, and pathogens, preventing contamination during maintenance or new construction tasks in critical, high-risk surroundings. Whether it is for replacing lighting, ceiling tiles, air conditioning, or performing other ceiling work, this versatile cart ensures a clean and controlled workspace. Its easy maneuverability and intuitive operation streamlines workflow, saving time and money.*

Infection control is crucial in hospitals to protect both patients and healthcare workers from harmful pathogens and healthcare-associated infections. In operating theatres, where sterile conditions are paramount, the use of the UltraClean HEPA Cart is essential. It creates a controlled, contamination-free environment for routine maintenance tasks, minimizing airborne particles and reducing infection risk. By maintaining these high standards of cleanliness, the UltraClean Cart significantly enhances patient safety and protects medical staff, ensuring optimal outcomes and a safer hospital environment.

## USER-FRIENDLY

Our UltraClean Cart arrives fully assembled and ready for immediate use. This mobile unit features an easy-to-operate raising and lowering mechanism, enabling efficient transitions between tasks. By increasing productivity and minimizing downtime, the UltraClean Cart offers an excellent return on investment.



## FILTRATION

The first stage in the filtration process removes most of the larger dust and pollen particles, hair and PM10 particles from the air. The second stage is the HEPA filter, which removes the finer dust particles that escape the pre-filter. Our UltraClean Carts use H14 HEPA filters, which capture 99.995% of 0.1 micron particles per liter of air for maximum protection from PM2.5 particles, microscopic solid or liquid matter suspended in the air.

## ULTIMATE EFFICIENCY

The UCC HEPA Cart dramatically cuts down maintenance time in hospital and operating theatre settings by eliminating the need for setting up temporary barriers and extensive deep cleaning after minor tasks. It allows maintenance personnel to get in, complete the job, and move on quickly, all while ensuring a contamination-free environment. This streamlined process means less downtime for critical areas and more efficient use of maintenance resources.

## SUSTAINABILITY

Our UltraClean Carts offer a sustainable solution for maintenance and renovation projects by eliminating the need for temporary enclosures, tents, and dust walls. These disposable materials, made of plastic, wood, and drywall, often end up in landfills after a single use. UltraClean Carts are reusable for multiple projects, significantly reducing the amount of non-recyclable waste generated. Additionally, after a long service life, UltraClean Cart parts can mostly be recycled accordingly.

## APPEARANCE

Having a UltraClean Cart shows your facility is serious about infection and dust control. Nurses and patients appreciate the clean appearance, while project managers and contractors value the product's practicality, durability, and commitment to infection control. Customers of the Ultra Clean Cart appreciate the meticulous craftsmanship that reflects a professional image.

## MAINTENANCE

The UltraClean Cart with its user friendly design of stainless steel and Extra Heavy Duty Shroud makes it easy to clean. A simple wipe down after use. The HEPA filter can be easily be removed and replaced by the operator. We recomend replacing filters every 6 to 12 months depending on the fequency of use.

## APPLICATIONS

The HEPA Cart is suitable for applications in:

- Health Care Facilities
- Pharmaceutical Operations
- Data Storage Centers
- Animal Science Facilities
- Medical Device Production
- Semiconductor Manufacturing
- Hospitality and Casino
- Schools and Education

## SAFETY

Australian-made and built to the highest quality standards, the UltraClean Cart is a stable and durable cleaning solution. Its ladder configuration features a robust framed base and wheel assemblies rated for up to 150kg each (upgradable upon request). In addition, the spring-loaded lift mechanism offers extra ceiling support, protecting both the operator and the ceiling surface.

## FREEDOM UNPLUGGED

Our unique battery-powered design frees maintenance teams from the constraints of wall sockets, enabling seamless mobility throughout hospital and operating theatre environments. With no cords to manage, tasks can be completed quickly and without interruptions, allowing personnel to move from one job to the next with greater speed and flexibility. This cordless convenience not only enhances efficiency but also minimizes disruption to critical areas, keeping the focus on smooth and safe operations.



# CONTAMINATION CONTROL

Bacteria cells typically range from 0.5 to 5 micrometers in length, with most falling within the 1 to 5 micrometer range. UltraClean Carts filters effectively capture at least 99.995% of these airborne particles.

- *Acinetobacter baumannii* - Gram-negative short rods (coccobacilli) - Measuring 1.0-1.5 by 1.5-2.5 microns.
- *Mycobacterium tuberculosis* - Measuring 2-4 micrometers in length and 0.2-0.5  $\mu\text{m}$  in width.
- *Staphylococcus aureus* - Measuring 0.25 micrometers in width and roughly 1 to 1.5  $\mu\text{m}$  in length.

## SPECIFICATIONS

### STANDARD MODEL HEPASC

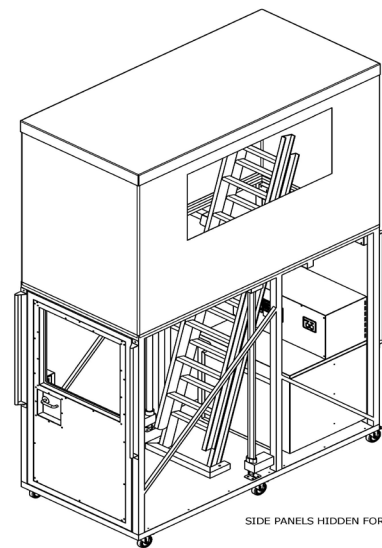
**WIDTH** 2030 mm

**DEPTH** 750 mm

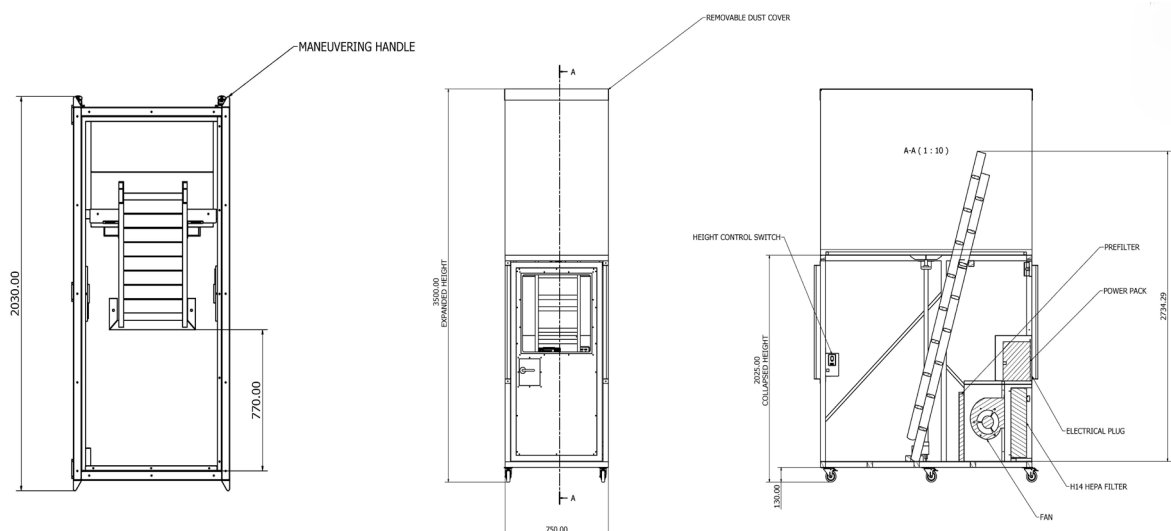
**COLLAPSED HEIGHT** 2025 mm

**EXPANDED HEIGHT** 3500 mm

**WEIGHT** 150 kg



SIDE PANELS HIDDEN FOR DETAIL





# FEATURES



- > Ladder locking brackets
- > LED lighting inside for operators
- > Reaches up to 3.6 metre ceilings
- > Battery operation
- > Upper shroud material tear resistant
- > Easy to set up and move in just 90 seconds
- > Dust cover for when the cart is stored
- > Additional power outlets inside the cart incase a worker requires use of power tools
- > Easy to clean stainless steel frame
- > 450kg load rating



# TESTING AND SERVICE

The UltraClean Cart is rigorously tested to ensure safety and performance. Each cart's HEPA filter, built to AS 4260 standards, undergoes particle count tests to confirm 99.97% filtration efficiency, airflow measurement, and a smoke test to detect leaks. These tests, performed on-site, ensure optimal function. For the highest accuracy, we recommend using a NATA ILAC accredited laboratory for certification, ensuring compliance with the strictest safety standards for infection control.

## AUSTRALIAN STANDARDS

Compliance with safety standards is vital in any healthcare setting. The UltraClean Cart, designed with a HEPA filter that adheres to AS 4260 standards and tested to AS 1807 methods, ensures a controlled, contaminant-free environment for critical tasks in areas like operating theatres. These standards are essential for ensuring that the cart effectively reduces airborne contamination during routine maintenance. Using equipment that meets or exceeds these rigorous benchmarks, like the UltraClean Cart, helps maintain a sterile workspace, reducing infection risks and safeguarding both patients and healthcare workers.



# CERTIFICATION

All UltraClean Carts should be certified by a NATA-accredited laboratory to ensure optimal performance. We recommend additional testing and certification in the following instances:

- On-site prior to initial use
- After maintenance or filter replacement
- Annually
- In special circumstances, such as when faulty operation is suspected.

These steps ensure the cart maintains its high standards of safety and effectiveness, providing reliable contamination control in critical environments.



AES Environmental maintains an ISO 9001:2015 quality management system to ensure process and product conformance.

**Please note:** Specifiers and intending users should refer to AS 4260 and AS 1807, which outline the performance standards and testing methods for HEPA filters.



AES Environmental is a family owned, engineering and manufacturing business. The company comprises of major brands situated in the Air Filtration, Pollution Control and Life Sciences markets. Those brands and products are market-leading names within their fields ensuring that AES Environmental is capable of fulfilling its goal of providing the market with a single, integrated source for air filtration, clean room and pollution control needs.

Whatever business area you operate in, effective air filtration and pollution control is vital for your products, processes and people. All our products are manufactured in Australia and along with that, we offer installation and service Australia wide, that you can always rely on.

# GET TO KNOW US

AES Environmental consists of an Australian head office and manufacturing location in Sydney, NSW, manufacturing and service operations in Perth, WA, Adelaide, S.A. and service operations in Melbourne, Vic. Internationally the business operates manufacturing facilities in Bangkok, Thailand and Newcastle Upon-Tyne, UK.

However large or small the need, with expertise in just about every area of industrial and process filtration and separation, we're ready to help to deliver the products and 'hands-on' support to help you build a better future.

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*In keeping with our policy of continuing product improvement, we reserve the right to alter specifications without notice.*

## GET IN TOUCH!

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