

CADSORB™

CARBON DRUM FILTRATION SYSTEM



PRODUCT OVERVIEW

The CADSORB™ range is a compact, drum-based vapour phase activated carbon system for the control of odorous or toxic vapours. Each 200 L unit contains a deep bed of premium-grade granular activated carbon, pre-soaked and ready to connect, providing an effective, maintenance-free adsorption solution.

Designed and manufactured in Australia by AES Environmental, CADSORB™ combines simplicity with proven adsorption science, ideal for tank venting, soil vapour extraction, process exhaust, and remediation projects.

KEY BENEFITS

Effective Vapour Control	Removes VOCs, hydrocarbons, solvents, and odorous gases.
Rechargeable & Sustainable	Media can be recharged or replaced, minimising waste and operating cost.
Compact & Portable	200 L drum form factor, easy to transport and position on-site.
Plug & Play	Supplied fully assembled and pre-soaked for immediate use.
Scalable	Multiple units can be manifolded in parallel or lead/lag for higher airflows and breakthrough protection.
Maintenance-Free	No moving parts, simple negative-pressure operation.

TYPICAL APPLICATIONS

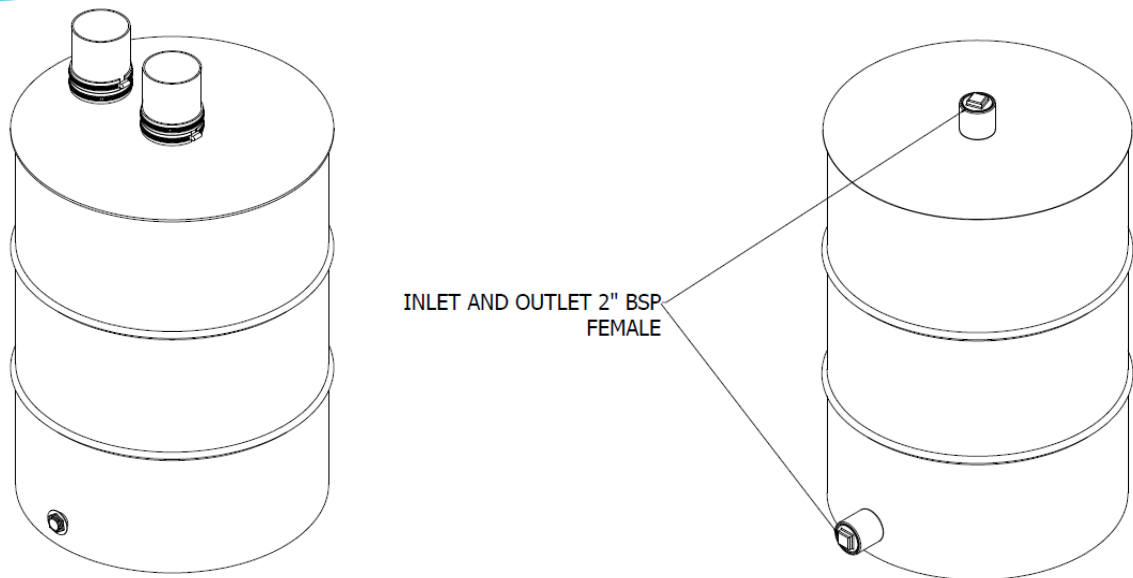
- Contaminated ground remediation (hydrocarbon vapours, kerosene, petrol)
- Tank vent scrubbers and sumps
- Chemical & petrochemical odour control
- Wastewater treatment headspace scrubbing
- Emergency response after spills or fires
- Indoor air quality improvements for recirculation systems

SYSTEM DESIGN GUIDANCE

- Empty Bed Contact Time (EBCT): Size airflow for 0.1–0.3 s EBCT for optimum efficiency.
- Breakthrough Monitoring: Install sampling ports pre- and post-drum for PID meter or Draeger tube checks.
- Parallel Banks: For flows above 75 L/s, use multiple drums in parallel.
- Lead/Lag Arrangement: Recommended for critical applications to ensure continuous treatment during media changeover.
- Prefiltration: Fit a coarse (G4) panel filter or demister to protect the carbon from particulates or mist carryover.

SAFE & EASY SETUP

- Pre-soaked carbon minimises dust and ensures full bed wetting.
- Connect inlet and outlet, start the fan, and monitor exhaust air quality periodically.
- When breakthrough occurs, simply recharge or replace the carbon bed. The drum housing is reusable.



SPECIFICATIONS

	CA-75	CA-25
Configuration	Top inlet, central riser with offset outlet	Bottom-inlet/outlet with 2" BSP female connections
Media Fill	~60kg activated carbon + 64kg scoria support bed	~60kg activated carbon + 64kg scoria support bed
Nominal Flow	270 m ³ /h (≈75 L/s) at EBCT ≈ 0.2 s	270 m ³ /h (≈75 L/s) at EBCT ≈ 0.2 s
Drum Volume	200 L	200 L
Diameter	570 mm	570 mm
Height	880 mm	760 mm
Connections	DN100 PVC inlet/outlet	2" BSP female inlet & outlet
Installation	Vertical, fan downstream (negative pressure)	Vertical, fan downstream (negative pressure)
Service	Rechargeable carbon bed, refillable on-site or return-to-base	Rechargeable carbon bed, refillable on-site or return-to-base

ORDERING INFORMATION

- CA-75: Top-inlet drum for fixed pipework connections
- CA-25: Bottom-inlet drum for flexible hose connections
- Custom manifold systems and dual-drum skids available on request.



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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