

LT AIR ENGINEERING PTE. LTD.

Your partner towards a cleaner and more sustainable environment

Think environment, Think LT Air

Activated Carbon Filter System



Vertical Deep Bed | Horizontal Deep Bed | V-Bank | Inline Duct

LT Air Engineering *makes owning an activated carbon filter system easy*

We offer a turnkey solution for customers who need activated carbon filter (ACF) systems for their facilities due to various reasons including safety, environmental, odour and compliance to local air emission standards among others.

We design, fabricate, supply and install ACFs in horizontal and vertical deep bed configurations as well as V-bank configuration.

Our involvement does not just end with the installation. We also test and commission the system together with the customer to ensure the system perform according to design.

On top of that we provide classroom and field trainings for the customer's operators to ensure they have the necessary knowledge to operate the system.

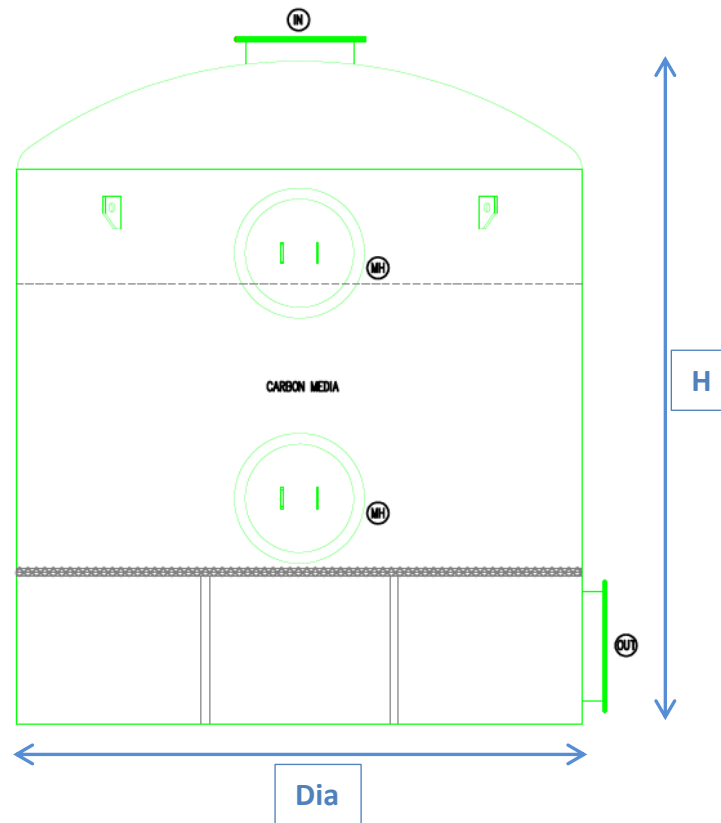
Our systems provide high removal efficiency against common pollutants including:

- Hydrogen Sulphide (H₂S)
- Hydrochloric Acid (HCl)
- Ammonia (NH₃)
- Acetone (C₃H₆O)
- Benzene (C₆H₆)
- Butane (C₄H₁₀)
- Toluene (C₇H₈)
- Methanol (CH₄O)
- Formaldehyde (CH₂O)
- Isopropyl Alcohol, IPA (C₃H₈O)
- Dichloromethane (CH₂ Cl₂)
- Diethanolamine, DEA (C₄H₁₁NO₂)
- Mercaptans
- Volatile Organic Compounds (VOCs)
- Solvents
- Alcohols (-OH)
- Semiconductor Processing Gases

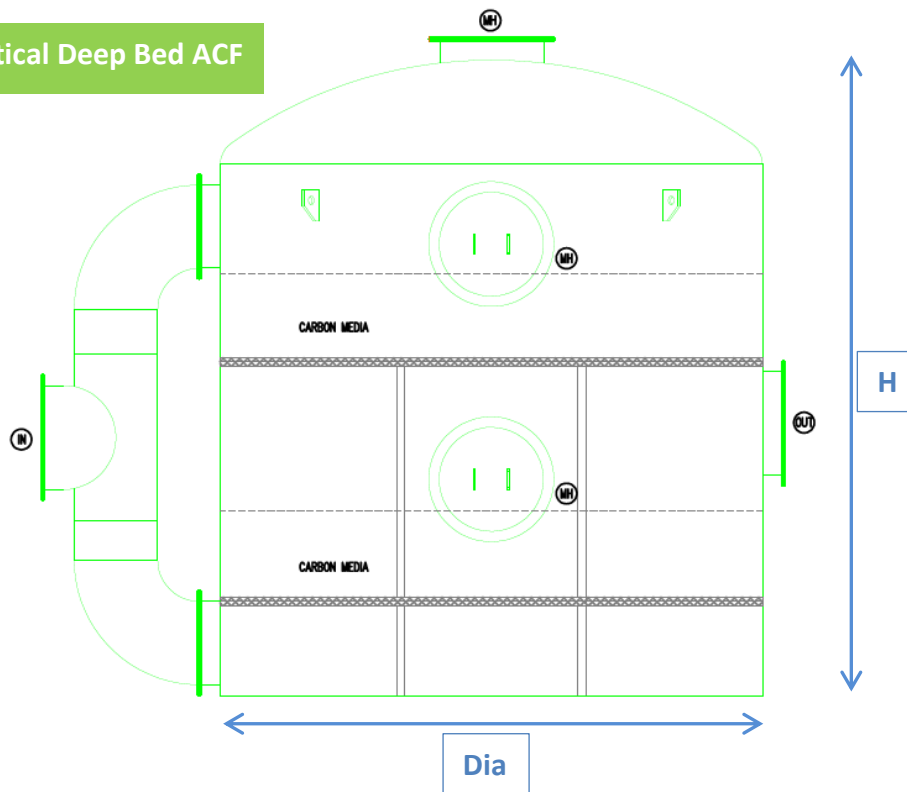
Our systems are used in many industries and sectors including:

- Foundries
- Municipal Plants
- Wastewater Treatment Plants
- Chemical Industry
- Chemical Storage Warehouses
- Food & Beverage Industry
- Institutions and Schools
- Any facility that uses or stores chemicals

Single-Bed Vertical Deep Bed ACF



Dual-Bed Vertical Deep Bed ACF



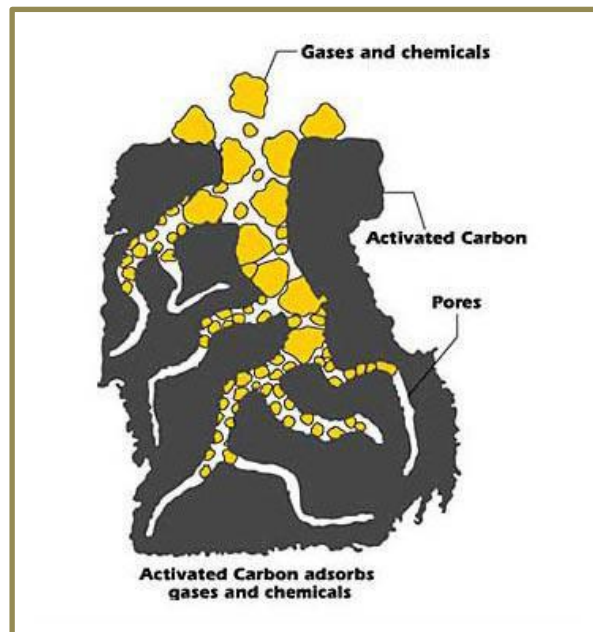
Approximate Footprint and Weight

Model	Air Flowrate (CMH)	Dia	H	Approx. Operating Wt (kg)	Type
LT-DB8	1000	1,350	2,000	1,045	Single Bed
LT-DB33	2,000	1,900	2,050	1,875	Single Bed
LT-DB50	3,000	2,300	2,150	2,655	Single Bed
LT-DB67	4,000	2,400	2,400	3,400	Single Bed
LT-DB83	5,000	2,450	2,600	4,085	Single Bed
LT-DB100	6,000	2,650	2,750	5,050	Single Bed
LT-DB117	7,000	2,850	2,800	5,995	Single Bed
LT-DB133	8,000	2,950	2,900	6,605	Single Bed
LT-DB150	9,000	3,100	2,900	7,245	Single Bed
LT-DB167	10,000	2,950	4,200	8,235	Dual Bed
LT-DB250	15,000	2,950	5,450	11,920	Dual Bed
LT-DB333	20,000	2,950	6,650	15,590	Dual Bed

*Values shown are based on typical solvents and H₂S adsorption.
All dimensions in mm.*

The carbon media in our single-bed and dual-bed ACFs can be used for at least 12 months before replacement is required.

For ACF with shorter carbon life expectancy e.g. 6 months or 9 months, the footprint of the ACF will correspondingly be smaller.



Gas Adsorption Process

Why LT Air Engineering?

- In-house design
- Experienced fabrication team
- Quick response
- Authority submission
- Full QC test before leaving factory
- Single stage or dual stage design for high adsorption efficiency
- Wide range of activated carbon media for different applications
- Robust FRP / steel construction for maximum mechanical strength and corrosion resistance
- P.E. endorsement option available
- Turnkey package from design to installation



Inline ACF Installation for an ultrasonic washing facility



V-Bank ACF with Wet Scrubber Installation for a local university



Activated Carbon Filter Installation for odour and toxic gases abatement

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