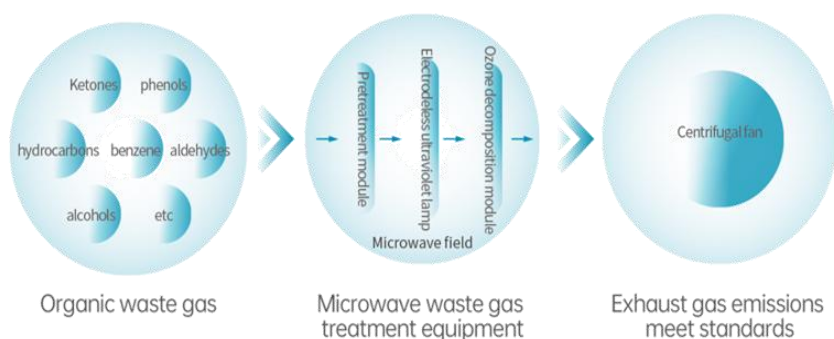


VUV waste gas treatment system utilizes Microwave Cracking Technology to break down and oxidize pollutants via microwave catalytic synergy, direct cracking and indirect reactions. It converts organic waste gases into harmless byproducts like CO₂, H₂O, and N₂, making it suitable for industries like Pharma & BioPharma, Electronics, Chemical, Power, Cement, Steel etc.

Working Principle



500+
Installations
Globally

Features

- 95% efficiency in pollutant removal
- Supports Carbon Neutrality initiatives
- Handles broad spectrum of gases
- Reliable, emission-standard compliant
- Eco-friendly: no secondary pollution
- Plug-and-play; low maintenance
- Integrates with PLC and DCS systems



<70°C



<85%



110-240 V

Configuration

Model ▶	VUV-3K	VUV-5K	VUV-10K
Dimensions (mm)	L 2,500 W 1,400 H 1,900	L 2,900 W 1,400 H 1,900	L 3,300 W 1,400 H 1,900
Air Volume	3,000 m ³ /h	5,000 m ³ /h	10,000 m ³ /h
Power	9 KW	13 KW	18 KW
Wind Resistance	200 pa		
Material	Cold-rolled Steel		

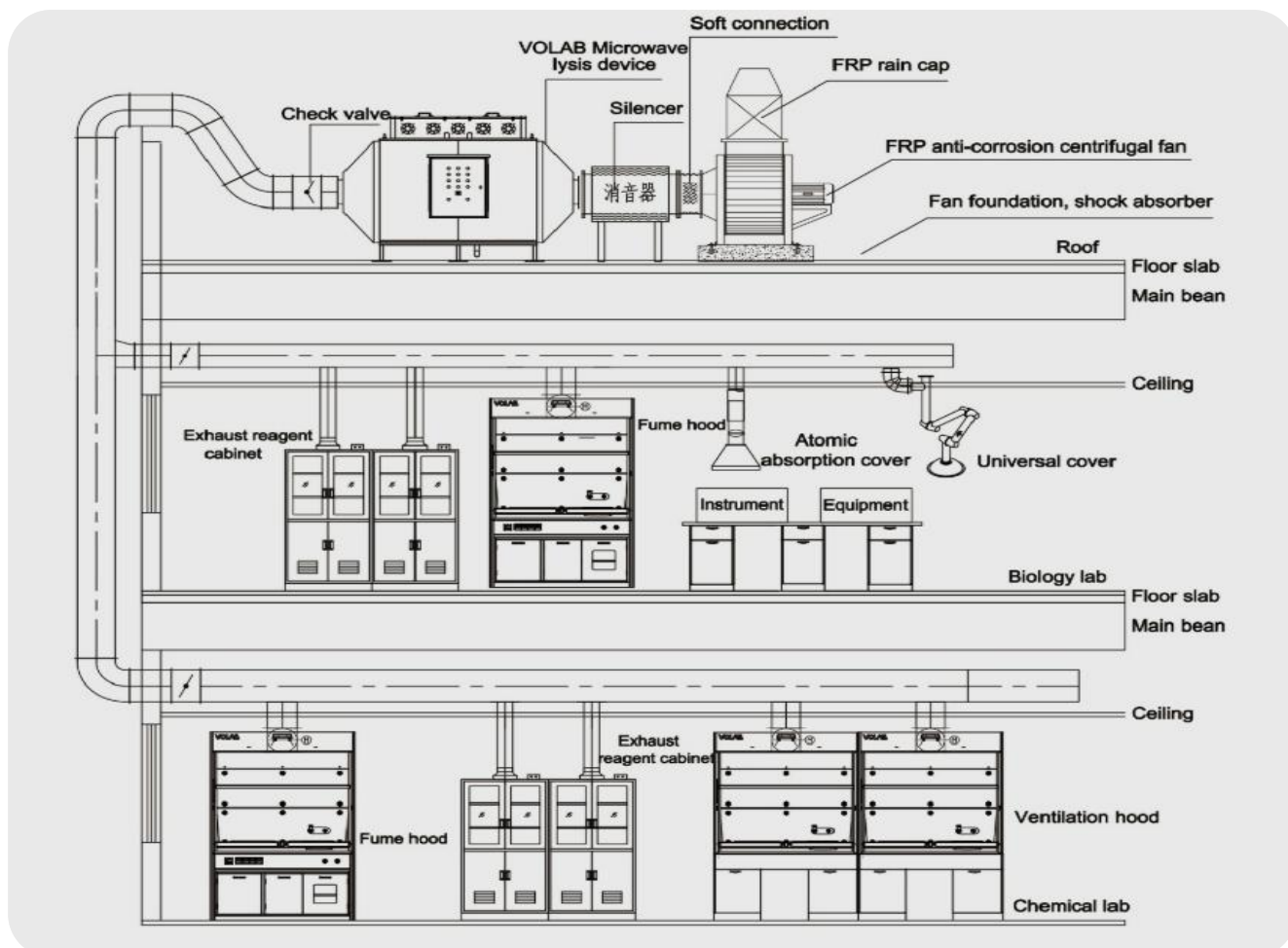
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Typical Set-up: Laboratory



Common Gases & End Products

Gas	End Product(s)
Ammonia	$\text{H}_2\text{O}, \text{N}_2$
Trimethylamine	$\text{H}_2\text{O}, \text{N}_2, \text{CO}_2$
Aniline	$\text{H}_2\text{O}, \text{N}_2, \text{CO}_2$
Hydrogen Sulfide	$\text{H}_2\text{O}, \text{SO}_4^{2-}$
Methyl mercaptan	$\text{H}_2\text{O}, \text{CO}_2, \text{SO}_4^{2-}$
Methyl sulfide	$\text{H}_2\text{O}, \text{CO}_2, \text{SO}_4^{2-}$
Dimethyl disulfide	$\text{H}_2\text{O}, \text{CO}_2, \text{SO}_4^{2-}$
Ethyl acetate	$\text{H}_2\text{O}, \text{CO}_2$

Gas	End Product(s)
Methanol	$\text{H}_2\text{O}, \text{CO}_2$
Phenol	$\text{H}_2\text{O}, \text{CO}_2$
Benzene	$\text{H}_2\text{O}, \text{CO}_2$
Toluene	$\text{H}_2\text{O}, \text{CO}_2$
Styrene	$\text{H}_2\text{O}, \text{CO}_2$
Xylene	$\text{H}_2\text{O}, \text{CO}_2$
Ethylene oxide	$\text{H}_2\text{O}, \text{CO}_2$



**Superior to
UV, Spray Tower or
Activated Carbon
Technology**