

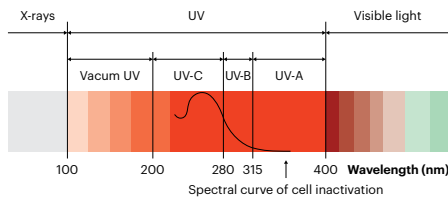
# FagronLab™ UVGI-80

UV Air Sterilizer (mobile)

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It is suitable for dynamic indoor air disinfection in hospitals, medical examination cabinets, pharmacies, waiting rooms, and pharmaceutical factories.

- Illuminated boat switch, one button to turn on and off
- Manual controlled disinfection operation
- Using quick disassembly shell, convenient for daily cleaning and maintenance, and circulating air with silent fan
- Using long-life, C-band (wavelength 253.7nm) ozone-free ultraviolet improves microbial air safety against viruses, bacteria and fungi
- Silent swivel casters, easy to move
- It adopts the unique structure of side air inlet and air outlet before, which reduces the reserved space at the rear and can be placed against the wall



## Technical Parameters

Circulating Air	≥800m <sup>3</sup> /h	
Noise	≤55dB	
O <sub>3</sub> concentration in the air during dynamic disinfection	≤0.1mg/m <sup>3</sup>	
Applicable Room	≤80m <sup>3</sup>	
Ultraviolet Leakage	≤5μw/cm <sup>2</sup>	
Working Environment	Temp. Range	-10°C~40°C
	Humidity	≤80%
	Atmosphere pressure	60KPa-106KPa
Consumption	≤260W	
Power Supply	AC220V±10%, 50/60Hz	
External Size (WxDxH)	425x300x830 mm	
Packaging Size (WxDxH)	510x384x930 mm	
Gross Weight	28.5 kg	

## Test results for FagronLab UVGI-80

### Test with Staphylococcus Albus

First test was performed in a temperature of (20-25°C), and relative humidity of (50-70)% RH. The sterilizer has an effect of 99.90%, 99.92%, and 99.90% respectively in terms of the disinfection rate of staphylococcus albus, after 60 minutes of operation.

### Test on airborne microorganisms

The second test confirmed that the steriliser has an effect of 90.42%, 90.56%, and 92.17% respectively in terms of decay of airborne microorganisms, after 120 minutes of operation.

#### Experimental data of quantitative test on air disinfection effect

Tested strains	Working for (min)	Test No.	Control group			Test group		
			Number of colonies before the test (cfu/m <sup>3</sup> )	Number of colonies after the test (cfu/m <sup>3</sup> )	Natural decay rate (%)	Number of colonies before the test (cfu/m <sup>3</sup> )	Number of colonies after the test (cfu/m <sup>3</sup> )	Apoptotic rate (%)
Staphylococcus albus	60	1	8.06×10 <sup>4</sup>	6.35×10 <sup>4</sup>	21.22	8.55×10 <sup>4</sup>	65	99.90
		2	9.17×10 <sup>4</sup>	7.37×10 <sup>4</sup>	19.63	8.31×10 <sup>4</sup>	53	99.92
		3	1.10×10 <sup>5</sup>	8.36×10 <sup>4</sup>	24.00	1.06×10 <sup>5</sup>	82	99.90

#### Experimental data of the identification test on air disinfection effect

Tested strains	Working for (min)	Test No.	Test group		
			Number of colonies before the test (cfu/m <sup>3</sup> )	Number of colonies after the test (cfu/m <sup>3</sup> )	Apoptotic rate (%)
Airborne microorganisms	120	1	2.40×10 <sup>3</sup>	2.30×10 <sup>2</sup>	90.42
		2	1.95×10 <sup>3</sup>	1.84×10 <sup>2</sup>	90.56

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