

VITROCELL® Cloud Advanced Nebulizer

For liquid droplet sizes 9 – 12 µm with diffusor

The VITROCELL® Cloud Advanced Nebulizer is enlarging the application areas of Cloud Exposure Systems. Whenever the suspended particles are larger than the mesh size of standard nebulizers (4.0 – 6.0 µm) this special type offers the possibility to produce an aerosol containing particles in the range of 9.0 – 12.0 µm.

Application Areas

Pharmaceutical industry: formulations for nasal sprays often have larger particles sizes.

Environmental research: on several projects PM 10 needs to be tested.

Chemical Industries: certain chemicals need to be diluted substantially with PBS in order to make them work with the standard nebulizer. Here the VITROCELL® Cloud Advanced Nebulizer offers the possibility to generate an aerosol with no or less dilution.

Cloud Diffusor

The patented diffusor ensures a homogeneous distribution of even the larger droplet sizes in the Cloud Exposure Chamber. In order to avoid effects from larger droplet formations it has an integrated drain channel.



Advanced Nebulizer with Diffusor



Diffusor



VITROCELL® Cloud Alpha

Delivery Content

Position	Item	Cloud Alpha	Cloud First Generation
1	VITROCELL® Cloud Advanced Nebulizer 9.0 – 12.0 µm	✓	✓
2	Electronic Control Set Cloud Advanced Nebulizer Nebulizer Controller Flow Controller for output rate Adapter for VITROCELL® Cloud Chamber Power supply and cable	✓	✓
3	Diffusor for Cloud Advanced Nebulizer	✓	Item # 4 required
4	Modification of first generation Cloud housing for Diffusor New universal adapter ring compatible with all nebulizers Send-in to VITROCELL® required		✓



Nebulizer Controller



Flow Controller

Technical Data

Advanced Nebulizer	Flow rate: 4 ml/min +/- 0,5 ml/min Droplet diameter: 12 µm +/- 3 µm	
Electronic Control Unit	Input channel 110 / 230 V	Power supply 12 V / 1.6 A