

# AERIAL

Dust Chambers

## Aerial - Dust Chambers

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**Aerial Dust Chambers are specially designed for simulating a dust filled atmosphere in a confined workspace as per International testing standards especially for automotive & electronic components testing of its resistance to dust atmosphere.**

Aerial series of Dust Chambers are an outcome of the continual improvement of CM EnviroSystems over twenty-five years in meeting the expectations of variety of requirements of various customers.

Developed with best engineering practices enhancing the inherent reliability in the system Aerial - Dust Chambers are uniquely designed to perform ingress protection tests of IEC, JIS, MIL, IS etc. Various proprietary standards also can be combined with our chambers.

Aerial Series - Dust Chambers are available in different ranges of parameters and capacities as per specific testing requirements and all standard sizes are available in stock to meet the just-in-time testing needs of various industries.

Uniquely designed mono-block construction with an interior using mirror finished stainless steel and exterior cold rolled steel with electrostatic powder coating. The internal test space has a sloped ceiling with a dust circulation ducting on the side-walls for uniform distribution of dust.

The interior stainless steel door is lined with a double continuous silicone rubber rings. The door is lockable and provided with a micro switch enabling an interlocking system. The door is provided with toughened glass viewing window and a wiper.

The chamber is capable of moving easily to different locations using castor wheels. modular design with mono-block construction.

# Aerial Dust Chamber

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## **Test space conditioning**

The facility for Test space conditioning for required temperature and its uniformity will be simulated using an appropriate impeller/blower assembly and suitable capacity sheathed heaters..

## **Floating dust agitation**

Variable RPM motor with agitator shaft and blade will be provided in the chamber to circulate dust in the workspace as per required dust collections.

## **Ingress Protection as per IEC**

A vacuum pump will be provided with a flexible hose and dust filter. The capacity of the vacuum pump will be suitable to evacuate the enclosure under test. A vacuum gauge Suitable pipeline with flare connection and flexible hose will be provided to make the suction connecting to the enclosure

## **Aerial current agitation**

The sieve will be provided with vibration arrangement to allow free flow of dust. Variable RPM blower motor will be provided to control the required dust collections. Blower with motor will be provided to spray the dust in the chamber. The blower will suck the air from the chamber through wire mesh sieves.

Our presence across the globe.



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