



# DUNES

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Dust Chambers

## DUNES Dust Chambers



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

DUNES series of Dust Chambers are an outcome of the continual improvement of NAE Envirosystems over twenty-five years in meeting the variety of expectations and requirements of various customers.

Developed with the best engineering practices enhancing the inherent reliability in the system DUNES-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.

DUNES 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.



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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 a 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.



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### Models Available

Models	DU-1000-I	DU-2000-I	DU-1000-B	DU-2000-B
<b>Test Space Dimensions</b>	1000L (1000W x 1000D x 1100H) mm 37.8 cu. ft. (39.37"W x 39.37"D x 43.31"H)	2000L (2000 W x 1000D x 1100H) mm 76.7 cu. ft. (78.74"W x 39.37"D x 43.31"H)	1000L (1000W x 1000D x 1000H) mm 34.3 cu. ft. (39.37W x 39.37"D x 39.37"H)	2000L (2000 W x 1000D x 1100H) mm 76.6 cu. ft. (78.74"W x 39.37"D x 43.31"H)
<b>Standard Compliance</b>	IEC-600529 DIN-40050 IP5X & IP6X, SAE-J575, ISO-20653 and IEC-60068-2-68 standards.		IS:9000	
<b>Viewing Window</b>	Available in All Models			
<b>Instrumentation</b>	Provided with a cyclic timer capable of handling all types of intermittent test cycles. Time totalized will be provided to monitor the usage.		Provided with a micro-controller based temperature indicator and controller. Special PID control algorithm loaded with auto tuning features.	
	No as per Standards Complied		Ambient to 60 °C (140°F)	



# North American EnviroSystems

## Tomorrows Environmental Solution Today

### Sales Offices

### Headquarters

#### **NORTH AMERICAN ENVIROSYSTEMS**

4026 Minerva Ave.  
Los Angeles, CA 90066, USA  
Tel: (310) 736-1901  
[sales@naenvirosystems.com](mailto:sales@naenvirosystems.com)  
[www.naenvirosystems.com](http://www.naenvirosystems.com)



### USA

#### **Precision Measurement Products**

510 Market Loop, Suite 202  
West Dundee, IL 60118  
Tel: (847) 426-4446  
[info@precisionmeasurement.com](mailto:info@precisionmeasurement.com)

#### **Stress Analysis Services**

Po Box 1225  
Bath, Ohio 44210-1225  
Tel: 330-666-8696  
[stressguy@stresshq.com](mailto:stressguy@stresshq.com)

#### **TD Specialists**

25 Rocky Point Drive  
Bowl, NH 0334  
Tel : (603)224 0985  
[gcmr@comcast.net](mailto:gcmr@comcast.net)

#### **Southern Marketing Associates**

1311 Sundial Point  
Winter Springs, FL 32708  
Tel: 407.682.7317  
<http://smainc.net/>

#### **Creative Marketing Associates**

Md. DC Virginia  
410-340-5262  
[wamcma@ix.netcom.com](mailto:wamcma@ix.netcom.com)  
[www.cmaltd.com](http://www.cmaltd.com)

#### **Ward Davis Associates**

Southern California  
818-416-2944  
[bbreyer@warddavis.com](mailto:bbreyer@warddavis.com)  
[www.warddavis.com](http://www.warddavis.com)

### Europe

#### England

**TeslaTest Systems**  
3 Bamfords Fold  
Bretherton, Leyland, Lancashire  
PR26 9AL United Kingdom  
Tel: 01772 600771  
[andy@teslatest.co.uk](mailto:andy@teslatest.co.uk)  
[www.teslatest.co.uk](http://www.teslatest.co.uk)

#### Latín America

#### **North American EnviroSystems Latina**

Mar Negro # 1236  
Lomas del Country  
Guadalajara, Jal. 44610  
(52-33) 3817-8124  
[naelat@naenvirosystems.com](mailto:naelat@naenvirosystems.com)  
[www.naenvirosystems.com](http://www.naenvirosystems.com)

#### México

**Cientec S.A. de C.V.**  
Acatempan No. 2112 Col. Chapultepec  
Country Guadalajara, Jalisco, 44620  
Tel. (52 33) 38-17-81-22-23  
[ventas@cientec.com.mx](mailto:ventas@cientec.com.mx)  
[www.cientec.com.mx/](http://www.cientec.com.mx/)

#### **Cientec Monterrey**

Ducla Salinas 410-3Col. Real de Minas  
Guadalupe, Nuevo León, 67124  
Tel. (81) 83 34 20 73  
[norte@cientec.com.mx](mailto:norte@cientec.com.mx)

#### **Cientec, México, D.F.**

Estela No. 9 int. 3 Col. Guadalupe Tepeyac  
México, D.F. C.P. 07840  
Tel. (55) 57 59 2550  
[centro@cientec.com.mx](mailto:centro@cientec.com.mx)

### Argentina

#### **SCT**

Av. Constituyentes 6851 B7  
cp 1603 Vicente Lopez  
Buenos Aires, Argentina  
Tel/Fax: (+54-11) .4709-5681  
[info@sct.com.ar](mailto:info@sct.com.ar)  
<http://www.sct.com.ar>

#### Brazil

**L.S. Acústica Ltda.**  
Av. General Penha Brasil, 2391  
02673-000 - São Paulo/SP - Brasil  
Tel: +55 11 3985-8689  
Fax: +55 11 3851-6407  
[lsacustica@lsacustica.com](mailto:lsacustica@lsacustica.com)

#### Chile

#### **Arquimed S.A.**

Arturo Prat 828  
Santiago, Chile  
Tel: (56-2)6346266  
[jortiz@arquimed.cl](mailto:jortiz@arquimed.cl)  
[www.arquimed.cl](http://www.arquimed.cl)

#### Asia

#### India

**CM EnviroSystems Pvt. Ltd.,**  
Unit II: #18, 19, 1st Main, 1st Cross,  
KIADB Industrial Area, Dobaspet,  
Bangalore, 562111.  
Tel: 91 80 27734123/27734561  
[mtqt@cmenvirosystems.com](mailto:mtqt@cmenvirosystems.com)



# NAE