



North American Envirosystems

Tomorrows Environmental Solutions....Today



NAE



Headed by a group of dynamic professionals, North American Envirosystems offers a unique blend of young innovative engineers coupled with seasoned sales and marketing executives. With extensive experience in the Environmental testing field NAE has developed a rich foundation of knowledge that has produced one of the most comprehensive lines of Environmental testing chambers in the market today.

NAE has a determined sensibility towards industry needs and requirements and is forging its success on its professional qualified personnel capable of offering technical service and support to a demanding marketplace.

With the advent of cost efficient manufacturing processes, NAE products are fabricated in an ISO 9001 facility and have the CE mark, thus meeting the most stringent quality industry standards with competitively priced solutions. NAE chambers truly constitute the best product-for-the-money in the market.

North American Envirosystems not only offers “Tomorrows Environmental Solutions Today”, we also have a high awareness of customer service and offer response times second to none.



NAE

ENVIRO

Environmental Chambers

The Environmental Chambers are uniquely designed to suit any ergonomic conditions. The chambers feature integral Mono-block construction for easy handling and are usually available from stock to meet the just-in-time testing needs of the industry.

Features

Eco-friendly highly efficient non-CFC refrigeration system with safety protected devices

Direct vaporization humidification system with low-pressure vapor boiler

Refrigeration based de-humidification

Test Space Volume:	120 to 1500 liters
Temperature Range:	-40° C / -70 ° C to +180 ° C
Humidity Range:	10% to 95% RH
Climatic Range:	10° C to 85° C
Rate of average heating or cooling:	3° C/min
Temperature Fluctuation:	0.1° C to 1° C
Humidity Fluctuation:	1% to 3% RH



MINI

Bench top Chambers

The Mini Bench Top Chambers are compact sized humidity chambers which can be placed on a work bench or on the optional stand provided. These chambers are small, light weight and low audible noise which are ideal for confined work spaces.

Features

Ideal for laboratory conditions with extremely lower noise levels <55db

Test Space Volume:	80 liters
Temperature Range:	-40° C to +85 ° C
Humidity Range:	30% to 98% RH
Climatic Range:	10° C to 85° C
Temperature Fluctuation:	0.1° C to 1° C
Humidity Fluctuation:	1% to 3% RH



OXYFOG

Corrosion Chambers

NAE EnviroSystems Salt Spray & Cyclic Corrosion test chambers are designed to meet the most stringent testing requirements of corrosive atmospheres and cyclic corrosion environments.

The entire housing is constructed using a non-corrosive material like plastic, making it highly durable and maintenance free. It also has an ergonomic design with smooth and contoured surfaces, making it highly attractive as well as compact.

Features

- *Airpurging facility
- *Time totalizer
- *Cyclic Timer
- *Regulators & Gauges
- *Specimen

Test Space Volume: 250 to 2000 liters
Temperature Range: Ambient to 55 ° C



TITAN

Walk-in Chambers

TITAN Walk-in Chambers are specially designed for testing specimens of comparatively larger sizes. Construction of Walk-in Chambers is made of Panelized PUF or Fiber wool insulated panels suitable to simulation parameters of temperature and humidity.

Features

- Standard/ Custom-built construction ranges
- Available in standard / custom-made temperature/humidity ranges
- Pre-fabricated PCGI or Plasticized Panels construction
- Non-slippery flooring with aluminum chequered sheets
- Stainless steel or PCGI laminated interior
- enviCOM Touch Screen or Eurotherm



RICHTER

Thermal Shock Chamber

Richter Thermal Shock Chamber is uniquely designed for quick interchange transfer system of components between hot & cold zones using robust electro-pneumatic cylinder/motorized system technology.

Features

- Vertical movement of basket with separate hot and cold temperature zones
- The Basket transition done through a Robust Electro-pneumatic Method.
- Mono-block design with integrated Non-CFC cascade refrigeration system

Basket Space Volume: 25 liters to 120 liters
Temperature Range: -75 ° C to 200° C



EVEREST

Altitude Chambers

EVEREST Altitude Test Chambers are designed for the testing avionics aerospace and products which are exposed to high altitude conditions. These simulators operate in a wide range of Temperature Altitude with user programmable rate of ascend and descend.

Features

Touch screen controller with facilities of remote monitoring and operation, Internet Explorer based communication

Test Space Volume: 540 to 1500 liter
Temperature Range: -70 ° C to 180 ° C
Temperature Fluctuation: 0.1 ° C to 1 ° C
Rate of Heating/Cooling: 5 ° C /min
Humidity Range: 10% to 95% RH
Altitude Range: Atmospheric to mbar 1
Climatic Range: 1 mbar to 3 mbar
Evacuation Time: <30 mins





DUNES

Dust Chambers

DUNES BIS Range is designed for the simulation of Dust in a controlled atmosphere. **DUNES** IEC Range is designed for the simulation of Dust in a controlled atmosphere.

Features

- Interior test space made of Non-magnetic
- Stainless steel with dust collection section below the test space
- Stainless steel mesh shelves- to provide a platform to place your components and to let free flow of dust
- Floating dust agitation with air velocity control by speed adjustable blower and motor
- Dunes current agitation with variable rpm blower motor and filtration of dust at sucking sections

Test Space Volume: 1000 & 2000 liters

SPRING

Rain Chambers

The **Spring** Series of Spray or Water Spray Chambers is an outcome of the continual improvement of NAE over twenty-five years in meeting the expectations of variety of requirements of various costumers.

Features

- Test Space Volume of 1000 to 8000 liters
- Design and Construction Exterior with non-corrosive FRP (Fiber Reinforced Plastic)
- Interior with non-corrosive FRP / Stainless steel
- Large capacity (100 Ltrs) water reservoir with automatic water refilling facility
- Rotating test table to expose the specimen for spray from all sides
- Rotating test table to expose the specimen for spray from all sides





PHARMA

Stability Chambers

The compact yet maintenance friendly design ensures smaller installation area with the highest storage volume. The inner Stainless steel construction with rigid polyurethane foam makes the **Pharma** range highly rugged.

Features

Meets ICH Q1A guidelines for pharmaceutical stability testing

Available in temperature and temperature-humidity models

Auto-tune PID controller

Test Space Volume:	225 to 1000 liters
Temperature Range:	10 ° C to 60 ° C
Humidity Range:	20% to 90% RH
Temperature Fluctuation:	+0.5 ° C
Humidity Fluctuation:	1% to 3% RH

ARTIC

Deep Freezers

The Artic range of Deep Freezers offer outstanding reliability and performance which is required in a variety of storage and research applications.

Features:

- Temperature: -40°C & - 80°C
- High capacity ultra-low temperature refrigeration system
- Cascade refrigeration with eco-friendly CFC free refrigerants
- Digital temperature indicator and control with enhanced operation
- Low maintenance system with high quality branded sub-systems



ARID

Tray Dryers

Tray Dryers are ideally suitable for use of drying Mushrooms, Ginger, Areca nut, Chillies, Spices, Noodles, Papads, Potato Chips, Onions, Fish, Garlic, Cashew nuts, Confectionary and various other moisture content specimens dried under sunrays.

Features

- Available in wide range of models from 6 trays to 192 trays
- Temperature regulation done through precise controls to suit the specimen
- Adjustable exhaust damper with pre-filtration in the air inlet

Temperature Range: 100 ° C to 300 ° C



SAHARA

Ovens

The NAE Sahara line of ovens offer stand alone models of different capacities that are designed and manufactured to suffice various temperature tests applications of industrial laboratories.

Features

- Laminar Air Flow for Uniformity of air distribution throughout the workspace
- Adjustable Tray Provision for Additional Trays
- Auto Tune PID Controller for Precise setting of required Temperature

Test Space Volume: 180 liters to 1200 liters

Temperature Range: Above Ambient to 200 ° C

Temperature Fluctuation: 0.1 to 1 ° C



TECHNOLOGICAL FEATURES

Internet Connectivity

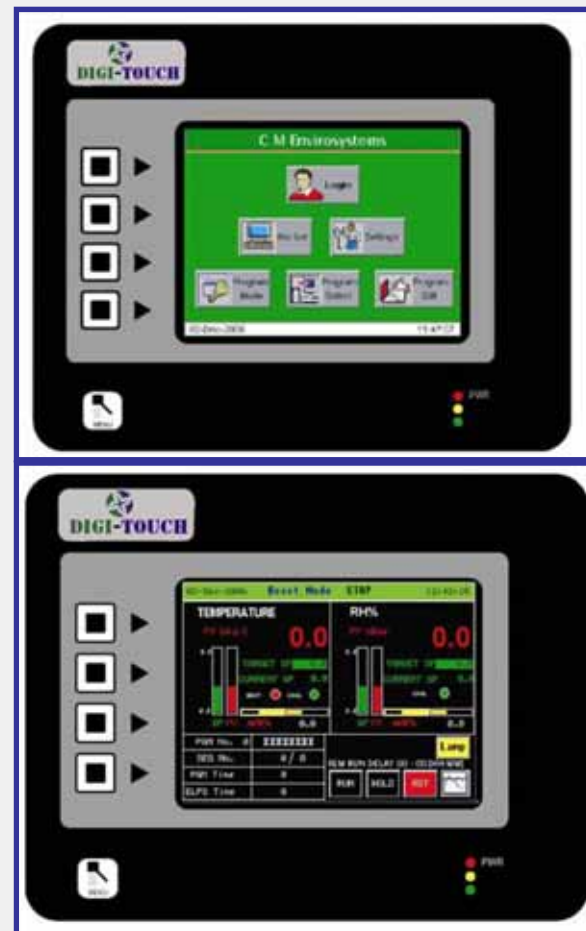


- Remote monitoring and operation via internet
- The most on-board communication ports
- Internet Explorers based communication
- Built-in Ethernet

DIGI-TOUCH TOUCH SCREEN CONTROLLER

DIGI-TOUCH color touch screen Controller which is able to conduct more sophisticated procedures such as multi-step cycles incorporating High, Low temperature and Relative Humidity.

It can cycle as either a single set point controller or as a programmable profile controller.



COOL

Chillers



The **COOL** range of Chillers is specially designed for cooling of various different liquid media such as water, glycol and hydraulic oils. These chillers are specially designed for industrial use complimenting its unique, compact and yet rugged designed. All models are built in a mono block construction, with an ergonomic and maintenance cum user-friendly design.

Temperature Range: 5 ° C to 25 ° C

Nominal cooling capacity: 0.5T to 25T

Features

- In the refrigeration system for better reliability
- CRI vertical centrifugal pump is powered by fully enclosed fan cooled AC induction motor suitable for continuous 24th duty cycle

PAINT SPRAY BOOTH WITH TEMPERATURE & HUMIDITY CONTROL

Multiple paint spray booths with individual spray booths having precise control of temperature and humidity, with a continuous evacuation of paint fumes.



INSULATOR CREEP TEST CHAMBER

Insulator testing chambers for the simulation of different temperatures from ultra low to high temperature with tensile loads for evaluating the quality and reliability of insulators.



COMBINED ALTITUDE, TEMPERATURE & HUMIDITY CHAMBER

The chamber offers with a unique rapid decompression unit where vacuum levels of 1 Torr is achieved in less than 1 minute.



UV Weather Resistance Test Chamber



This series is applicable for the sunlight resistant test of nonmetallic materials and aging test of artificial light

Chamber Structure

The inner bladder of the chamber is made of imported high-class stainless steel plate while the outer bladder is made of A3 steel plate sprayed with plastic.

The heating mode adopts inner bladder trough type heating with its rapid temperature rise and even temperature distribution

Xenon Lamp Weather Resistance Test Chamber

NAE SN xenon lamp test chamber adopts the xenon arc lamp that can simulate full sunlight spectrum to reproduce destructive light waves existing in different environments so as to provide the corresponding environment simulation and acceleration test for scientific research, product development and quality control.

The inner lining of the chamber is made of high-class stainless steel plate while the outer bladder is made of A3 steel plate sprayed with plastic.



Ozone Climatic Test Chambers



This series is applicable for the aging cracking test of non-metal materials and rubber products.

Chamber Structure

The inner lining of the chamber is made of imported hi-class stainless steel plate while the outer bladder is made of A3 steel plate sprayed with plastic.

Heating is obtained via heating body, ensuring fast temperature rise and equal temperature distribution. A 360 rotating sample rack is inbuilt. The heating mode adopts inner bladder trough type heating with its rapid temperature rise and even temperature distribution.

Alaska Freezers and Ultra-Low Deep Freezers

The Alaska range of Freezers and Ultra-Low Deep Freezers constitutes the maximum assortment, variety and versatility in freezers, Deep Freezers and Ultra-Low deep freezers.

Models of freezers with temperatures ranges of -10°C to -25°C , to deep freezers with ranges of -10°C to -86°C , to ultra-low deep freezers in ranges of 120°C to -164°C are available.

The full line-up of freezers is loaded with standard and optional features including:

- Digital temperature display
- Keyboard lock and password protected configuration page
- Audible and visual alarm





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