Innovation | Technology | Precision

NE NEWTRONIC®

The name you can trust

Newtronic Lifecare Equipment Pvt. Ltd.
www.newtronic.in

Manufacturer of Stability Chambers | Walk-In Chambers | Peltier Technology
Low Temperature Chambers | Ultra Low Temperature Chambers | Incubators | Ovens
Clean Room Equipment | Laboratory Equipment | Web Based Software

WELCOME TO THE WORLD OF

NEWTRONIC:

The name you can trust

- ◆ Established in 1980
- ◆ Manufacturing facility of over 60,000 sq. ft.
- ◆ Globally available superior quality components
- ◆ PLC-based/IOT-based controlling systems
- ◆ Web-based software to access the chambers from anywhere, anytime
- ◆ Installation of more than 15,000 Chambers
- ◆ Large-sized chambers of upto 1 Million Litre capacity
- ◆ Execution of a single order of Walk-In Stability Chambers worth ₹12 Crore (approx. $1.4 Million USD).
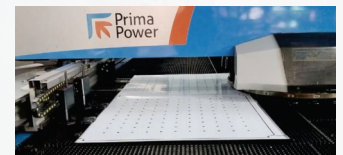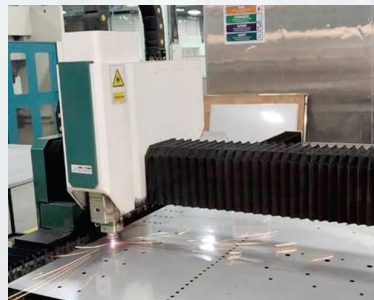
STATE OF THE ART PLANT - UMBERGAON

.... our key to excellence

Innovation | Technology | Precision

Consistent focus on strengthening our infrastructure has ensured that we now have a state-of-the-art factory at Umbergaon; PAN-India branch network; Channel Partners across major countries; Strong Supplier network; structured on-field operations and adoption of latest technology platforms - SAP being one of them.

Innovation has been a key factor to market penetration and at NEWTRONIC, we make it a habit. Driving innovation to meet customer expectations and bring operational efficiencies have always been part of our GTM strategies.

We are equally conscious that setting up a strong & effective team across all functional areas is imperative to the success of an organization. NEWTRONIC has always paid special attention to every minor detail across its complete ecosystem - employees; channel partners and our customers.

Furthermore, our customer relations have been the pedestal of our success. The strong relations forged with them run into decades and have stood the test of time on multiple occasions.

With a clear focus on our vision, mission and goals, we are committed to define & refine strategies that propel our growth in the future.

STABILITY CHAMBERS | CUSTOM DESIGN & VALIDATION

Specialized Design to meet Specific Needs

Fine Interior with specialised key features

- Complete Stability Solutions
- One-stop supplier for stability chambers
- Chambers built to last longer and to meet all requirements-now and in future
- Chambers from 200 liters to 2,50,000 liters as well as customised ones

Determination of Uniformity
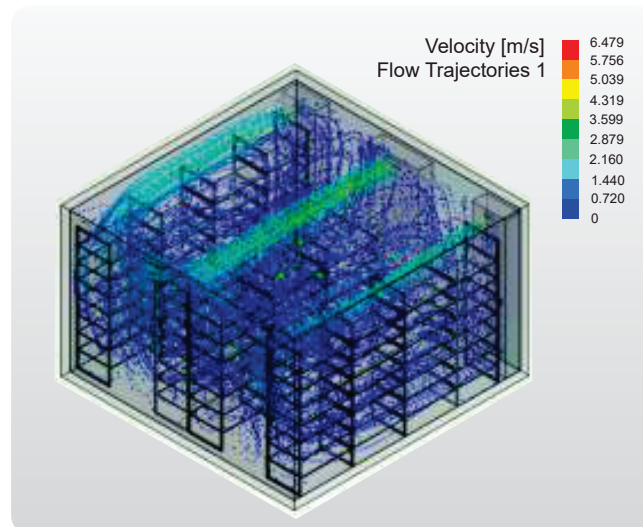
- Air Flow Stimulation Software
- Ensures uniformity of the conditions
- Determines an accurate air-path
- Determines the Hot & Cold Zones; Dry & Humid Zones
- Facilitates a proper sample loading pattern

Application

Newtronic chambers are suitable to meet the regulatory requirements of the various international bodies such as (ICH, USFDA, MHRA, WHO, EU-GMP, TGA, JPMMA, ANVISA, ASEAN) or any of the other National Testing Standards.

The ICH Q1A(R2) & Q1B conditions for different application are as follows:

Application	Study	Conditions	Study Point
General Conditions	Long Term*	$25^oC \pm 2^oC$ / 60% RH $\pm$ 5% RH $30^oC \pm 2^oC$ / 65% RH $\pm$ 5% RH $30^oC \pm 2^oC$ / 75% RH $\pm$ 5% RH	12 months
	Accelerated	$40^oC \pm 2^oC$ / 75% RH $\pm$ 5% RH	06 months
Drug Products packed in Semi-permeable container	Long Term*	$25^oC \pm 2^oC$ / 40% RH $\pm$ 5% RH $30^oC \pm 2^oC$ / 35% RH $\pm$ 5% RH	12 months
	Intermediate	$30^oC \pm 2^oC$ / 65% RH $\pm$ 5% RH	06 months
	Accelerated	$40^oC \pm 2^oC$ / NMT 25% RH	06 months
Drug Products for storage in Refrigerator	Long Term*	$5^oC \pm 3^oC$	12 months
	Accelerated	$25^oC \pm 2^oC$ / 60% RH $\pm$ 5% RH	06 months
Drug Products intended for storage in a Freezer	Long Term*	$-20^oC \pm 5^oC$	12 months
MVTR - Moisture Vapor Transmission Rate	-	23^oC / 75% RH 25^oC / 80% RH	
ICH Q1 B	Photostability	Exposure to Light intensity of 1.2 million Lux Hours & UV Light intensity of 200 watt / sq. mtr.	

*If 30°C / 65% RH or 30°C / 35% RH is the long-term then there is no intermediate.

Features | Functions | Flexibility

Ethernet Communication:

- High-speed data transfer
- Global standard for communication protocol
- Data Operations from any PC over the LAN

2nd Generation I-Series Controllers
No Data Loss:

- Data Storage of 1000 reading on the Controller itself
- At an interval of 30 mins, data upto 20 days is stored on the Controller itself.

Touch Screen Display

- All operations through a 7" Color touch screen display
- PLC IP Address setting
- Component Working Hours
- Stand by system change over
- Password protection for set values and calibration mode
- User manual, Troubleshooting and Preventive Maintenance procedure
- Alarms recordings

Touch Screen Door Access System

- Both Password-based and Biometric based access control
- Restricts access to unauthorized persons

Humidity System

- Non-condending Steam injection (Reach -Ins & small capacity Walk-Ins)
- Principles of Dew Point Control (Walk-Ins)

Standby Humidity & Cooling Systems

- Completely ready-to-use system
- Automatic switch-over upon failure of primary system
- Switch-over also upon detection of HP/LP & Internal faults
- Scheduled & manual change-overs
- Booster Cooling for faster recovery
- Recording of all change - overs in the software

Complete Range of Alarms

- Temperature & Humidity Deviations
- Door Opening
- Water Supply Failure
- Component Failure
- Mains Failure

Alarm Transmissions

- To Software
- To Remote Location (such as Security Gate)
- Through detailed SMS Notification
- Locally at equipment (audio-visual indication & on the display)

Mobile Alert System

- Time of Alarm transmission
- Name of Equipment
- Transmitted Message (Equiipment Name, Alarm time, Type of Alarm & Limits.)

Safety

- Temperature Overshoot/Undershoot
- Low water-level
- Delay Timer to safeguard the Compressor
- MCB to cut-off over-current supply
- Standby Controlling Sensor upon failure of Primary
- In Walk-in chambers door can be opened from inside
- Emergency Bell switch inside the chamber
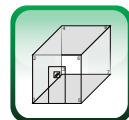
Multiple Sensors

- Either 4 or 8 probes can be placed
- Helps study the distribution in the different location of the chamber
- Works as an auto-validation system
- Easy detection of drift in the sensors
- Helps determine the variation in conditions by changes in sample - loading pattern

Documentation & Training

- DQ, IQ, OQ, PQ, & SOP & Maintenance Manuals
- Calibration Certificates
- GA & Electrical Drawings
- Material test Certificates
- Training to end-users

Audit Support

- Quick Resolution to NCs
- Justification to Excursion
- On-site Support
- Remote Support via Team Viewer
- Documenattion

PRECISE CONTROL WITH DIVERSE APPLICATION

Temperature Range: 20ºC to 60ºC
Humidity Range: 40% Rh to 95% Rh

Stability Chambers

Standard Equipment

➢ Double walled with PUF insulation.
➢ SS 304 Interior & Exterior either SS 304 or Mild Steel
➢ Stainless Steel trays
➢ Full-length inner glass door & metal door with gasket & lock on the outside
➢ Internal LED lights
➢ Forced air circulation for uniform temperature
➢ PU wheels for easy movement
➢ U-shaped SS tubular heaters
➢ **Cooling achieved by a thermoelectric module based on the principles of Peltier Technology**
➢ Complete Operations driven through PLC with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication
➢ All operations through a single 7" Color Touch Screen
➢ High quality imported make T/Rh combo sensor with 4-20 mA output
➢ Safety devices: Low & high temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

Also Available in Refrigeration Technology

SPECIFICATIONS

- Temperature Range   : 20˚C to 60˚C
- Temperature Accuracy : ± 0.5˚C
- Temperature Uniformity : ± 1˚C
- Humidity Range   : 40% Rh to 95% Rh
- Humidity Accuracy   : ± 2% Rh
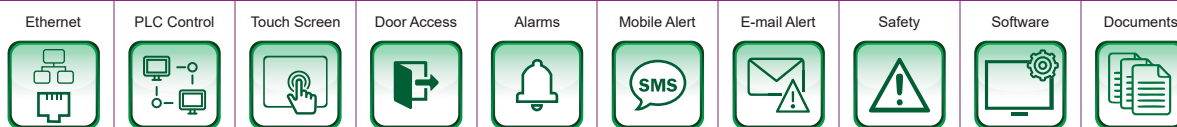- Humidity Uniformity   : ± 3% Rh

Optional Accessories

➢ ICDAS - A Single Software installation for all Newtronic make equipments
➢ 4 pt. Temperature & Humidity Scanner
➢ Door Access system (Numeric or Biometric)
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLHC16SIP	16	430	1200 x 600 x 600	1715 x 760 x 1155	4	530 x 560	250	325
NLHC26SIP	26	735	1500 x 700 x 700	2070 x 860 x 1255	5	630 x 660	275	350
NLHC34SIP	34	1000	1500 x 800 x 800	2070 x 960 x 1355	5	730 x 760	350	425
NLHC54SIP	54	1500	1500 x 1600 x 600	2070 x 1760 x 1155	10	695 x 560	350	450
NLHC71SIP	71	2000	1500 x 1600 x 800	2070 x 1760 x 1355	10	695 x 760	375	475

* Newtronic reserve the rights to change the product specifications without prior notice.

NLEPL/PRC/0325/4.0

Features

| Ethernet | PLC Control | Touch Screen | Door Access | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents |

Photostability Chambers

Combined/ Individual Exposure

Florescent Light

UV Light

Adjustable Trays
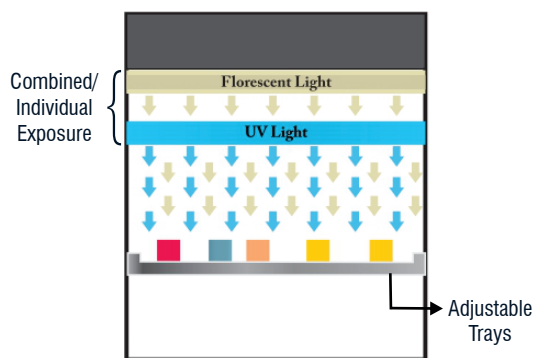
Small, Efficient, Sufficient

As per ICH Q1B

PHOTOSTABILITY CHAMBER

Standard Equipment

➢ Double walled with PUF insulation
➢ SS 304 Interior & Exterior either SS 304 or Mild Steel**. Additionally Interior walls are flushed with mirrors**
➢ Stainless Steel trays
➢ Full-length inner glass door, metal door with gasket & lock on the outside.
➢ Forced air circulation for uniform temperature
➢ PU wheels for easy movement
➢ Fluorescent LED light fitted on the top of the inner chamber to provide illumination & produce visible light measured in lux
➢ UV light of wavelength 365nm (measured in watt/sq. m.) fitted on top of the chamber
➢ U-shaped SS tubular heaters.
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser.
➢ Complete Operations driven through PLC with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication.
➢ All operations through a single 7" Color Touch Screen.
➢ High-quality PT-100 Temperature sensor.
➢ Safety devices: Low & high temperature cut-off settable thermostats.
➢ **Safety thermostat switches off the lights upon temperature overshoot.**
➢ **Automatic switch off of UV lights upon door opening**.
➢ Audio/Visual alarms for deviations.
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.
*Also available: Photostability Chambers with Humidity control

SPECIFICATIONS

• Temperature Range   : 10˚C to 40˚C
• Temperature Accuracy : ± 0.5˚C
• Temperature Uniformity : ± 1˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments
➢ LUX and UV meter
  ◦ Hand held OR
  ◦ Real-time measurement by inbuilt sensor
➢ Door Access System (Numeric or Biometric)
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipment
➢ Mobile Alert System

◆ Selection Guide

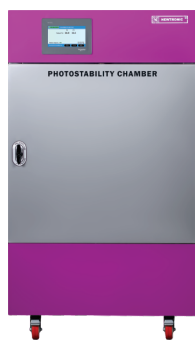| Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLPS4SI	4	100	450 x 450 x 480	925 x 700 x 720	1	410 x 440	125	220
NLPS8SI	8	227	600 x 630 x 600	1410 x 790 x 1055	1	580 x 560	175	250
*NLPSH8SI	8	227	600 x 630 x 600	1410 x 790 x 1075	1	580 x 560	185	260

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

| Ethernet | PLC Control | Touch Screen | Alarms | Mobile Alert | E-mail Alert | UV Protection | Software | Documents | Mirror Flushed Interior |

Temperature Range: 20ºC to 60ºC

Humidity Range: 40% Rh to 95% Rh

Walk-In Stability Chambers

Standard Equipment

➢ **Chamber Operations based on Ecotronic system incorporating the principles of Dew point control as per the Psychometric Chart**

➢ Double walled with 60mm PUF insulated modular panels with easy on-site assembly

➢ SS 304 Interior & Exterior either SS 304 or Pre Coated GI

➢ Stainless Steel Trays

➢ Observation window - 450 x 300 mm

➢ PVC strip curtain for reducing temperature leakages

➢ Heater line along the door to avoid condensation

➢ U-shaped SS tubular heaters

➢ Forced air circulation for uniform temperature

➢ Humidity is primarily controlled through the principles of Dew point control (for capacities > 8KL)

➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser

➢ System is made up of split type condenser unit in well-ventilated area to avoid throw of hot air in the room

➢ Stand by humidity system with booster humidification

➢ Complete Operations driven through PLC with data logging capacity of upto 1000 readings

➢ High speed Ethernet based communication

➢ All operations through a single 7" Color Touch Screen

➢ High quality imported make T/Rh combo sensor with 4-20 mA output

➢ Safety devices: Low & High temperature cut-off settable thermostats

➢ Audio/Visual alarms for deviations

➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230/415 volts 50 Hz main supply. Also available with 60 Hz Cycle.

ECOtronicSystem
Green Mode Energy Optimisation

SPECIFICATIONS

- Temperature Range : 20˚C to 60˚C
- Temperature Accuracy : ± 0.5˚C
- Temperature Uniformity : ± 1˚C
- Humidity Range : 40% Rh to 95% Rh
- Humidity Accuracy : ± 2% Rh
- Humidity Uniformity : ± 3% Rh

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments

➢ 8 pt. Temperature & Humidity Scanner

➢ Stand by Cooling System with auto switch over

➢ Door Access system (Numeric or Biometric)

➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments

➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm
NLWH208SI	208	5,848	2000 x 1360 x 2150	2120 x 1480 x 2270	20	900 x 300
NLWH250SI	250	7,017	2400 x 1360 x 2150	2520 x 1480 x 2270	28	900 x 300
NLWH307SU	307	8,600	2000 x 2000 x 2150	2120 x 2120 x 2270	20	900 x 600
NLWH368SU1	368	10,320	2400 x 2000 x 2150	2520 x 2120 x 2270	28	900 x 600
NLWH543SU	543	15,216	2400 x 2000 x 3170	2520 x 2120 x 3290	42	900 x 600
NLWH679SU	679	19,020	2400 x 2500 x 3170	2520 x 2620 x 3290	42	900 x 800
NLWH1092SU1	1092	30,600	2400 x 2500 x 5100	2520 x 2620 x 5220	70	900 x 800
NLWH1787SU1	1787	50,040	3000 x 4000 x 4170	3120 x 4120 x 4290	126	900 x 600
NLWH2857SU	2857	80,019	3000 x 5100 x 5230	3120 x 5220 x 5350	162	900 x 800

*Custom Build Chambers also available | * Models with Exterior powder coated GI sheet & Interior stainless steel (304) will be available on request.
Standard Inner Heights: 2.0, 2.4, 3.0 Mt | Standard Inner Width: 1.36, 2.0, 2.5, 4.0 Mt | Standard Inner Depths: 2.0,3.0, 4.0, 5.0 Mt
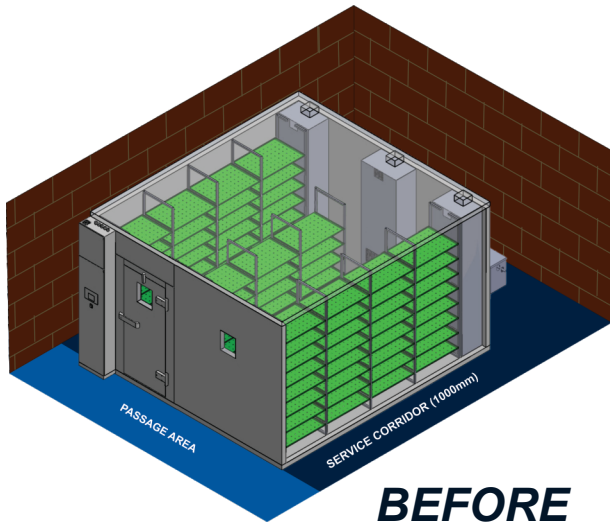
* Newtronic reserve the rights to change the product specifications without prior notice.

Features

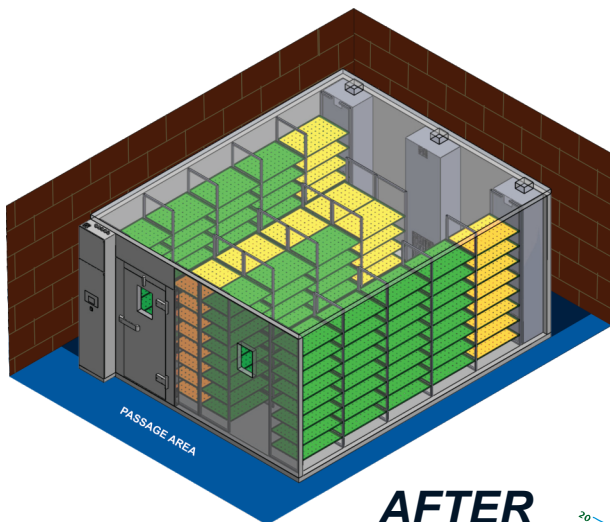| Ethernet | PLC Control | Touch Screen | Standby Cooling | Door Access | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents |

Temperature Range: 20ºC to 60ºC
Humidity Range: 40% Rh to 95% Rh
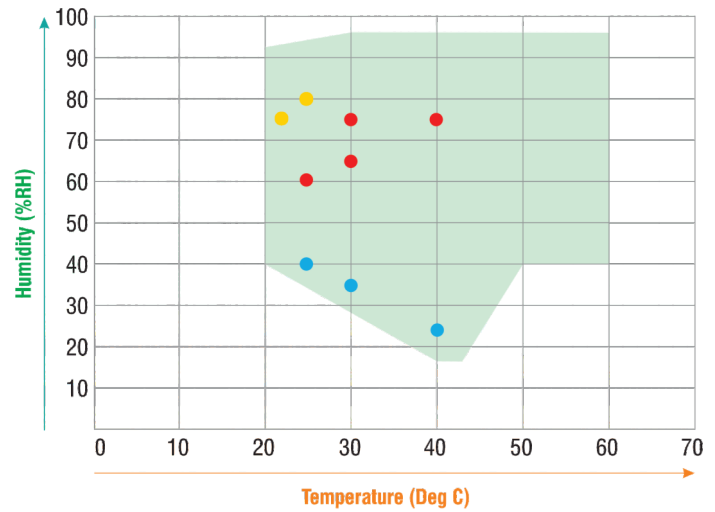
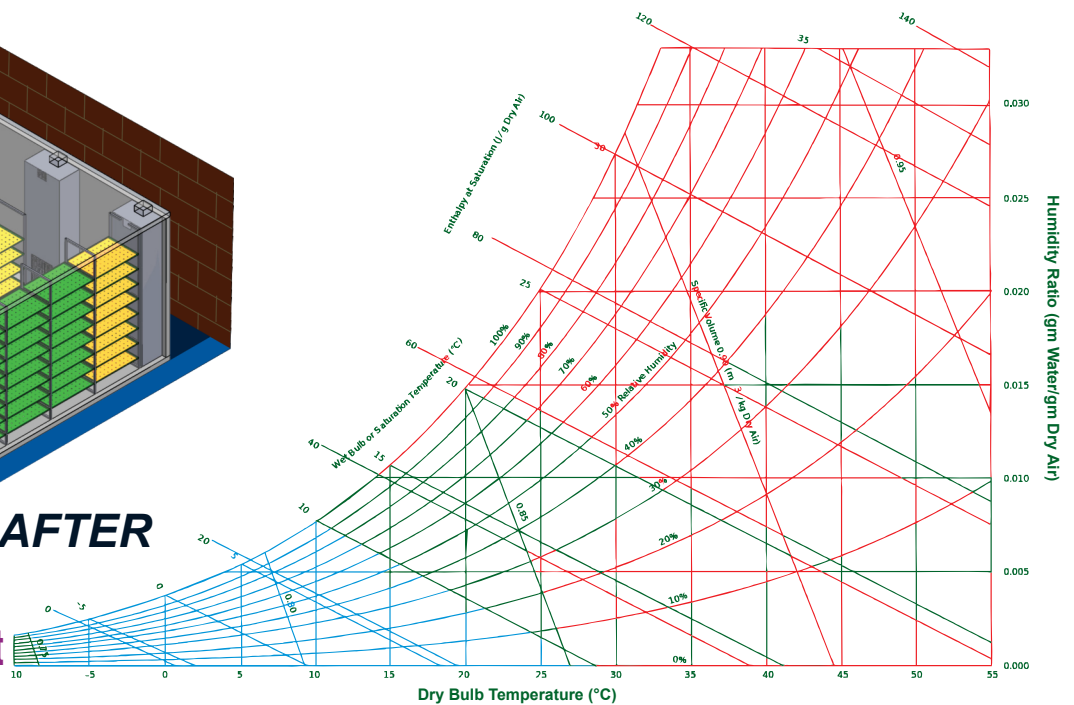# ECOtronic Walk-In Stability Chambers

Patented Technology No: 398204

INTELLECTUAL PROPERTY **INDIA**

PASSAGE AREA

SERVICE CORRIDOR (1000mm)

BEFORE

PASSAGE AREA

AFTER

Psychrometric Chart

Humidity (%RH) vs **Temperature (Deg C)**

- ● General Conditions
- ● Semi-permeable Conditions
- ● MVTR and Other Special Conditions

Dry Bulb Temperature (°C)

Humidity Ratio (gm Water/gm Dry Air)

Enthalpy at Saturation (J/ g Dry Air)

Wet Bulb or Saturation Temperature (°C)

Relative Humidity

ecotronicSystem
Green Mode Energy Optimisation

think GREEN — GO GREEN

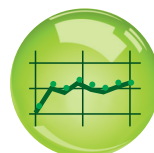# Introducing a Patented Technology for Green Mode Energy Optimization

Based on Principles of Dew Point Control

Low Power & Water Consumption

More Storage Area

No short term Deviations

Less Breakdown

NLEPL/PRC/0325/4.0

Freeze Thaw Chambers

Storage conditions must be distributed in a manner that ensures that the product quality will not be adversely affected. With the exception of short transit times within the same climatic zone, it is virtually impossible to validate a shipping method against all environmental conditions.

Therefore, distribution stability studies are designed to generate additional data and to complement preformulation development and routine (ICH Q1A(R2)) studies

Standard Equipment

➢ Double walled with PUF insulation
➢ SS304 Interior & Exterior of Mild Steel
➢ Stainless Steel trays
➢ Metal door with gasket & lock on the outside
➢ Forced air circulation for uniform temperature
➢ PU wheels for easy movement
➢ U shaped SS tubular heaters
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
➢ Complete Operations driven through PLC with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication
➢ All operations through a single 7" Color Touch Screen
➢ High-quality PT-100 Temperature sensor
➢ Safety devices: High Temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

Mode of Operation

➢ User can program a specific profile needed for their application to enable rapid simulation conditions & the need to replicate freezing & thawing during product testing
➢ Upto 4 temperatures set point can be set in cyclic mode.
(eg. -20°C set for 48 hrs, 5°C for 24 hrs, 25°C for 72 hrs and 40°C for 120 hrs)
No. of such temperature cycles can be repeated

SPECIFICATIONS

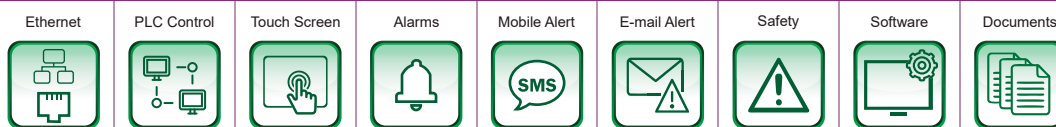• Temperature Range : -20˚C to 50˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments
➢ Door Access system (Numeric or Biometric)
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLFT7MI	7	200	510 x 560 x 700	1500 x 720 x 880	2	540 x 605	175	250
NLFT11MI	11	300	910 x 560 x 590	1955 x 720 x 770	3	540 x 495	225	300
NLFT14MI	14	400	910 x 560 x 785	1955 x 720 x 965	3	540 x 690	275	350
NLFT25MI	25	700	1200 x 800 x 730	2120 x 960 x 1020	4	780 x 635	300	375
NLFT34MI	34	1050	1200 x 1200 x 730	2110 x 1360 x 1020	8	515 x 635	325	515
NLFT54MI	54	1500	1200 x 1500 x 830	2110 x 1660 x 1120	8	660 x 735	350	660

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

| Ethernet | PLC Control | Touch Screen | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents |

Upper Temperature Range: 2ºC to 8ºC
Lower Temperature Range: -10ºC to -25ºC

Combo Refrigerator

Standard Equipment

➢ Double wall PUF insulation
➢ Interior SS 304 & Exterior Mild Steel
➢ Stainless Steel Trays
➢ Doors with magnetic gasket for all airtight sealing
➢ Forced air circulation for uniform temperature
➢ PU Wheels for easy movement
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser (one for each compartment)
➢ Complete operation are driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication
➢ All operations through a single 7" Color Touch Screen Display
➢ High-quality PT-100 Temperature sensor
➢ Safety devices: Low Temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

Double the Output|Lower the Cost

SPECIFICATIONS

• Upper Temperature Range: 2ºC to 8ºC
• Lower Temperature Range: -10ºC to -25ºC

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		Eqip.	Ship.
NLCR16MI	Upper - 7	Upper - 300	Upper - 765 x 625 x 630	2050 x 785 x 935	Upper - 2	275	350
	Lower - 7	Lower - 165	Lower - 440 x 625 x 600		Lower - 1		

Features

Ethernet	Alarms	Mobile Alert	Safety	Software	Documents	7" Colour Touch Screen Display

Laboratory Refrigerators

Standard Equipment

➢ Double walled with PUF insulation
➢ SS 304 Interior & Exterior either SS 304 or Mild Steel
➢ Stainless Steel trays
➢ Full-lenth inner glass door with magnetic gasket
➢ Forced air circulation for uniform temperature
➢ PU wheels for easy movement
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
➢ Complete Operations driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication
➢ All operations through a single 7" Colour Touch Screen Display
➢ High-quality PT-100 Temperature sensor
➢ Safety devices: Low temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

- Temperature Range   : 2˚C to 8˚C
- Temperature Accuracy   : ± 0.5˚C
- Temperature Uniformity : ± 1˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments
➢ 4 pt. Temperature Scanner
➢ Stand by Cooling System with auto switch over (430 litre & above)
➢ Door Access System (Numeric or Biometric)
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLCC7SI	7	200	800 x 500 x 500	1315 x 660 x 965	3	430 x 460	150	225
NLCC16SI	16	430	1200 x 600 x 600	1715 x 760 x 1105	4	530 x 560	250	325
NLCC26SI	26	735	1500 x 700 x 700	2070 x 860 x 1205	5	630 x 660	275	350
NLCC34SI	34	1000	1500 x 800 x 800	2070 x 960 x 1305	5	730 x 760	350	425
NLCC54SI	54	1500	1500 x 1600 x 600	2070 x 1760 x 1105	10	695 x 560	350	450
NLCC71SI	71	2000	1500 x 1600 x 800	2070 x 1760 x 1305	10	695 x 760	375	475

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NLEPL/PRC/0325/4.0

Features

Ethernet | Standby Cooling | Door Access | Alarms | Mobile Alert | Safety | Software | Documents

Pharmaceutical Refrigerators

Standard Equipment

➢ Double walled with PUF insulation
➢ Mild Steel Exterior & Interior either SS 304 or Mild Steel
➢ Stainless Steel trays
➢ Full-lenth inner glass door with magnetic gasket
➢ Forced air circulation for uniform temperature
➢ Castor wheels for easy movement
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
➢ **Highly cost-effective models for storage of reagents, solvents and chemicals**
➢ I-Series: Models with 21 CFR part 11 connectivity | 1000 readings | Online print facility

OR

E-Series: Auto tune PID controller | 2 line LED display
➢ High-quality PT-100 Temperature sensor
➢ Safety devices: Low temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

• Temperature Range   : 2˚C to 8˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Equipment Weight
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		Kg
NLPR14GI	14	400	1000 X 600 X 670	1675 X 700 X 785	4	250
NLPR17GI	17	500	1200 X 600 X 695	1875 X 700 X 810	5	300
NLPR28GI	28	800	1250 X 1195 X 540	2030 X 1295 X 660	10	450
NLPR34GI	34	1000	1250 X 1195 X 670	2030 X 1295 X 790	10	550

Features

Cyclic Defrost

Forced Air Draft Circulation

Intelligent Alarms

Environment Friendly

Low Noise

Walk-In Cold Room

Standard Equipment

➤ Double walled with 60 mm PUF insulated modular panels with easy on-site assembly
➤ SS 304 Interior & Exterior either SS 304 or Pre Coated GI.
➤ Stainless Steel Trays
➤ Observation window - 450 x 300 mm
➤ PVC strip curtain for reducing temperature leakages
➤ Heater line along the door to avoid condensation
➤ Forced air circulation for uniform temperature
➤ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
➤ System is made up of split type condenser unit in well-ventilated area to avoid throw of hot air in the room
➤ Complete Operations driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
➤ High speed Ethernet based communication
➤ All operations through a single 7" Color Touch Screen Display
➤ High-quality PT-100 Temperature sensor
➤ Safety devices: Low temperature cut-off settable thermostat
➤ Audio/Visual alarms for deviations
➤ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230/415 volts 50 Hz main supply. Also available with 60 Hz Cycle.

Also Available
Flameproof (Spark-free)
FIREsafe
Walk-In Cold room

SPECIFICATIONS

• Temperature Range   : 2˚C to 8˚C
• Temperature Accuracy : ± 0.5˚C
• Temperature Uniformity : ± 1˚C

Optional Accessories

➤ ICDAS -A Single Software installation for all Newtronic make equipments
➤ 8 pt. Temperature Scanner
➤ Stand by Cooling System with auto switch over
➤ Door Access system (Numeric or Biometric)
➤ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
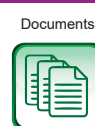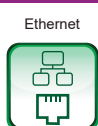➤ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm
NLWC208SI	208	5,848	2000 x 1360 x 2150	2120 x 1480 x 2270	20	900 x 300
NLWC250SI	250	7,017	2400 x 1360 x 2150	2520 x 1480 x 2270	28	900 x 300
NLWC307SI1	307	8,600	2000 x 2000 x 2150	2120 x 2120 x 2270	20	900 x 600
NLWC368SI1	368	10,320	2400 x 2000 x 2150	2520 x 2120 x 2270	28	900 x 600
NLWC543SI1	543	15,216	2400 x 2000 x 3170	2520 x 2120 x 3290	42	900 x 600
NLWC679SI	679	19,020	2400 x 2500 x 3170	2520 x 2620 x 3290	42	900 x 800
NLWC1092SI1	1092	30,600	2400 x 2500 x 5100	2520 x 2620 x 5220	70	900 x 800
NLWC1787SI	1787	50,040	3000 x 4000 x 4170	3120 x 4120 x 4290	126	900 x 600
NLWC2857SI	2857	80,019	3000 x 5100 x 5230	3120 x 5220 x 5350	162	900 x 800

*Custom Build Chambers also available | *Models with Exterior powder coated GI sheet & Interior stainless steel (304) will be available on request.
Standard Inner Heights: 2.0, 2.4, 3.0 Mt | Standard Inner Width: 1.36, 2.0, 2.5, 4.0 Mt | Standard Inner Depths: 2.0,3.0, 4.0, 5.0 Mt

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

| Ethernet | IOT-enabled Controller | Touch Screen | Standby Cooling | Door Access | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents |

Deep Freezers

Standard Equipment

➢ Double walled with PUF insulation
➢ SS304 Interior & Exterior of Mild Steel
➢ Stainless Steel trays
➢ Metal Door with gasket & lock on the outside
➢ PU wheels for easy movement
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
➢ Complete operation are driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication
➢ All operations through a single 7" Color Touch Screen Display
➢ High-quality PT-100 Temperature sensor
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

- Temperature Range   : -25˚C to 0˚C
- Temperature Accuracy : ± 3˚C
- Temperature Uniformity : ± 5˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments
➢ Door Access System (Numeric or Biometric)
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System

-40C Plasma Freezers
Available on Request

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Tray Qty.
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm	
NLDF4MIC	4	110	440 x 415 x 600	980 x 595 x 765	1
NLDF7MIC	7	208	660 x 525 x 600	1310 x 705 x 765	2
NLDF11MIC	11	330	880 x 625 x 600	1503 x 805 x 765	3
NLDF14MIC	14	413	1100 x 625 x 600	1750 x 805 x 765	4
NLDF18MIC	18	503	1340 x 625 x 600	1990 x 805 x 765	5

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

| Ethernet | IOT-enabled Controller | Touch Screen | Door Access | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents |

Walk-In Deep Freezers

Standard Equipment

➢ Double walled with 125 mm PUF insulated modular panels with easy on-site assembly
➢ SS 304 Interior & Exterior either SS 304 or Pre Coated GI
➢ Stainless Steel Trays
➢ PVC strip curtain for reducing temperature leakages
➢ Forced air circulation for uniform temperature
➢ CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
➢ System is made up of split type condenser unit in well-ventilated area to avoid throw of hot air in the room
➢ **Mechanism for equalizing air-pressure for door opening from inside**
➢ **Complete water-drainge facility with drain point, trays & piping**
➢ Complete Operations driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication
➢ All operations through a single 7" Color Touch Screen Display
➢ High quality PT-100 Temperature Sensor
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

### Ante Room at 2˚C - 8˚C

Power Supply: 415 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

- Temperature Range   : -25˚C to 0˚C
- Temperature Accuracy : ± 3˚C
- Temperature Uniformity : ± 5˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments
➢ 8 pt. Temperature Scanner
➢ Stand by Cooling System with auto switch over
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System
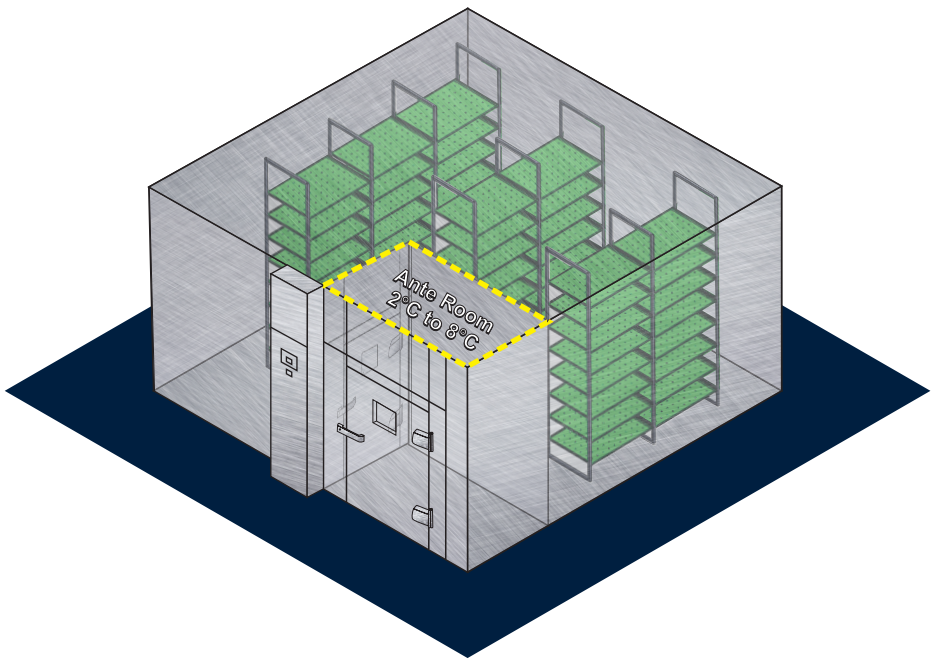
Ante Room
2°C to 8°C

Walk-In Deep Freezers (with Ante Room) are designed and manufactured as per customer requirements.

* Newtronic reserve the rights to change the product specifications without prior notice.

NLEPL/PRC/0325/4.0

Features

| Ethernet | IOT-enabled Controller | Touch Screen | Standby Cooling | Door Access | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents |

Ultra Low Temperature Freezers

Standard Equipment

➢ SS 304 Interior and Exterior is made of PCGI
➢ Interior is made up of multiple compartments with inner sub doors for each
➢ The inner doors are of SS 304, low temperature tolerant, corrosion resistant and easy to clean
➢ All the six sides of the cabinet are made from high efficiency VIP PLUS vacuum thermal insulation plate
➢ Imported high efficiency compressor and EBM fans for energy saving and efficient refrigeration
➢ Vacuum release port to prevent vacuum formation and thus enable easy Door opening
➢ Low noise Design: Low noise direct cooling circuit; sound absorbing compartment and low noise fan
➢ Extended warm up time during power / freezer failure to provide sufficient time for carrying out backup plans
➢ Excellent uniformity under normal operating condition
➢ Fast recovery time upon resumption post door opening / power failure events
➢ Audio visual alarm notifications: High/Low Temperature excursions | Door Open
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.
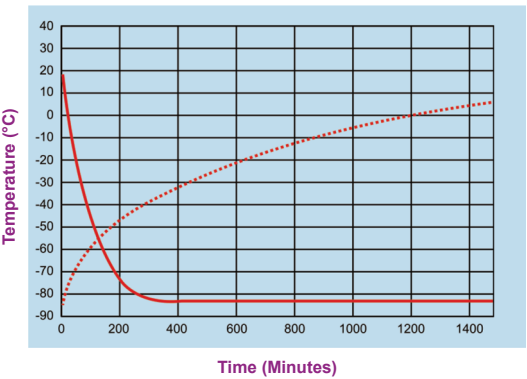
SPECIFICATIONS

- Temperature Range   : -86˚C to -60˚C
- Temperature Accuracy : ± 3˚C
- Temperature Uniformity : ± 7˚C

Optional Accessories

➢ External Data Logger for ICDAS connectivity
➢ ICDAS - A single software installation for all Newtronic make equipments
➢ Remote alarm system suitable for up to 4 nos. Newtronic make equipments
➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	No. of Comp-artment
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm	
NLUF04MI	04	100	514 x 450 x 439	820 x 1066 x 742	02
NLUF08MI	08	218	768 x 470 x 582	1555 x 862 x 976	02
NLUF14MI	14	398	1266 x 404 x 696	1947 x 788 x 1041	02
NLUF19MI	19	528	1266 x 585 x 696	1947 x 930 x 1041	02
NLUF27MI	27	778	1286 x 865 x 696	1955 x 1205 x 1025	03
NLUF36MI	36	1008	1378 x 1022 x 696	2002 x 1362 x 1025	04

LEGEND
a Pull-down Time : ——
a Warm-up Time : ··········
(upon power compressor failure)

NLEPL/PRC/0325/4.0

Features

Low Power Consumption

Extended Warm-up Time

Excellent Uniformity

External Data Logger

Documents

CO$_2$ Incubators

Standard Equipment

- SS 304 interior and exterior either SS 304 or mild steel
- Tightly sealed inner door made of tempered safety glass
- Direct heating via heaters wound around the chamber
- Perforated SS 304 shelves
- Humidification system with condensation protection
- Auto sterilization with hot air at 180°C along with Air Jacket formations
- Adjustable heat sterilization cycle
- Fan assisted air circulation to ensure superior uniformity, rapid recovery and minimum variation between cultures
- Complete prevention of desiccation - no matter where your cultures are
- Complete operations are driven through a PLC controlling system with a colour touch screen display
- Superior mixing of CO2 gas via specially designed air flow patterns
- IR-based CO2 sensor for CO2 monitoring and controlling (upto 20%)
- Audio visual alarms for deviations

For the best in class Mammalian Cell Growth

SPECIFICATIONS

- Temperature Range : 18 °C to 50 °C
- CO$_2$ Range: 0 to 20%

Optional Accessories

- ICDAS - A single software installation for all Newtronic make equipments
- Mobile Alert System

◆ Selection Guide

Model	Capacity	Capacity	Internal Size	External Size	Tray Qty.	Tray Size
	(Cu. Ft.)	(Ltr)	(H*W*D) mm	(H*W*D) mm		(W*D) mm
NLCO3MI	3	100	500 x 450 x 450	845 x 590 x 765	2	430 x 430
NLCO6MI	6	170	600 x 600 x 470	945 x 740 x 770	2	580 x 450

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

Alarms

Safety

Documents

BOD Incubators (Cool Incubators)

Standard Equipment

- ➢ Double walled with PUF insulation
- ➢ SS 304 Interior & Exterior either SS 304 or Mild Steel
- ➢ Stainless Steel trays
- ➢ Full length inner glass door with magnetic gaskets
- ➢ LED light for better illumination & observation (200 liters & above)
- ➢ Forced air circulation for uniform temperature
- ➢ PU wheels for easy movement
- ➢ U shaped SS tubular heaters
- ➢ **Cooling achieved by a thermoelectric module based on the principles of Peltier Technology**
- ➢ Complete operation are driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
- ➢ High speed Ethernet based communication
- ➢ All operations through a single 7" Colour Touch Screen Display
- ➢ High-quality PT-100 Temperature sensor
- ➢ Safety devices: Low & high temperature cut-off settable thermostats
- ➢ Audio/Visual alarms for deviations
- ➢ Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

Also Available in Refrigeration Technology

SPECIFICATIONS

- • Temperature Range   : 15˚C to 60˚C
- • Temperature Accuracy : ± 0.5˚C
- • Temperature Uniformity : ± 1˚C

Optional Accessories

- ➢ ICDAS -A Single Software installation for all Newtronic make equipments
- ➢ 4 pt. Temperature Scanner
- ➢ Door Access system (Numeric or Biometric)
- ➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- ➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLBI7SIP	7	200	800 X 500 X 500	1315 x 660 x 965	3	430 X 460	150	225
NLBI16SIP	16	430	1200 X 600 X 600	1715 x 760 x 1105	4	530 X 560	250	325
NLBI26SIP	26	735	1500 X 700 X 700	2070 x 860 x 1205	5	630 X 660	275	350
NLBI34SIP	34	1000	1500 X 800 X 800	2070 x 960 x 1305	5	730 X 760	350	425
NLBI54SIP	54	1500	1500 X 1600 X 600	2070 x 1760 x 1105	10	695 X 560	350	450
NLBI71SIP	71	2000	1500 X 1600 X 800	2070 x 1760 x 1305	10	695 X 760	375	475

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

Ethernet	Documents	Door Access	Alarms	Mobile Alert	Safety	Software
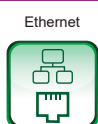
Walk-In Incubators

Standard Equipment

- Double walled with 60 mm PUF insulated modular panels with easy on-site assembly
- SS 304 Interior & Exterior either SS 304 or Pre Coated G.I.
- Stainless Steel Trays
- Observation window - 450 x 300 mm
- PVC strip curtain for reducing temperature leakages
- Heater line along the door to avoid condensation
- U shaped SS tubular heaters
- Forced air circulation for uniform temperature
- CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
- System is made up of split type condenser unit in well-ventilated area to avoid throw of hot air in the room
- Complete Operations driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
- High speed Ethernet based communication
- All operations through a single 7" Color Touch Screen Display
- High-quality PT-100 Temperature sensor
- Safety devices: Low & High temperature cut-off settable thermostats
- Audio/Visual alarms for deviations
- Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power supply: 230/415 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

- Temperature Range   : 10˚C to 60˚C
- Temperature Accuracy : ± 0.5˚C
- Temperature Uniformity : ± 1˚C

Optional Accessories

- ICDAS -A Single Software installation for all Newtronic make equipments
- 8 pt. Temperature Scanner
- Stand by Cooling System with auto switch over
- Door Access system (Numeric or Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm
NLWI208SI	208	5,848	2000 X 1360 X 2150	2120 X 1480 X 2270	20	900 X 300
NLWI250SI	250	7,017	2400 X 1360 X 2150	2520 X 1480 X 2270	28	900 X 300
NLWI307SI	307	8,600	2000 X 2000 X 2150	2120 X 2120 X 2270	20	900 X 600
NLWI368SI1	368	10,320	2400 X 2000 X 2150	2520 X 2120 X 2270	28	900 X 600
NLWI543SI	543	15,216	2400 X 2000 X 3170	2520 X 2120 X 3290	42	900 X 600
NLWI679SI	679	19,020	2400 X 2500 X 3170	2520 X 2620 X 3290	42	900 X 800
NLWI1092SI	1092	30,600	2400 X 2500 X 5100	2520 X 2620 X 5220	70	900 X 800
NLWI1787SI	1787	50,040	3000 X 4000 X 4170	3120 X 4120 X 4290	126	900 X 600
NLWI2857SI	2857	80,019	3000 X 5100 X 5230	3120 X 5220 X 5350	162	900 X 800

Custom Build Chambers also available | Models with Exterior powder coated GI sheet & Interior stainless steel (304) will be available on request.
Standard Inner Heights: 2.0, 2.4, 3.0 Mt | Standard Inner Width: 1.36, 2.0, 2.5, 4.0 Mt | Standard Inner Depths: 2.0,3.0, 4.0, 5.0 Mt
* Newtronic reserve the rights to change the product specifications without prior notice.

Features: Ethernet | IOT-enabled Controller | Touch Screen | Standby Cooling | Door Access | Alarms | Mobile Alert | E-mail Alert | Safety | Software | Documents

NLEPL/PRC/0325/4.0

Upper Temperature : 15⁰C to 60⁰C

Lower Temperature : 15⁰C to 60⁰C

Dual Incubators

Standard Equipment

➢ Double walled with PUF insulation

➢ SS 304 Interior & Exterior either SS 304 or Mild Steel

➢ **Two separate Compartments operating at different temperature values**

➢ Stainless Steel trays

➢ Full length inner glass door & outer metal door with gasket & lock on the outside

➢ Forced air circulation for uniform temperature

➢ PU wheels for easy movement

➢ U shaped SS tubular heaters

➢ **Cooling achieved by a thermoelectric module based on the principles of Peltier Technology**

➢ Complete operations driven through IOT-enabled Controller with data logging capacity of upto 1000 reading

➢ High speed Ethernet based communication

➢ All operations through a single 7" Color Touch Screen Display

➢ High-quality PT-100 Temperature sensor

➢ Safety devices: Low & High temperature cut-off settable thermostats

➢ Audio/Visual alarms for deviations

➢ Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

Also Available in Refrigeration Technology

SPECIFICATIONS

- Temperature Range   : 15˚C to 60˚C
- Temperature Accuracy : ± 0.5˚C
- Temperature Uniformity : ± 1˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments

➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments

➢ Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLDC14SIP	Upper - 7	Upper - 200	Upper - 690 X 600 X 500	2050 X 740 X 985	Upper - 2	530 X 460	300	375
	Lower - 7	Lower - 200	Lower - 690 X 600 X 500		Lower - 2			
NLDC28SIP	Upper - 14	Upper - 400	Upper - 690 X 700 X 800	2050 X 840 X 1285	Upper - 2	630 X 760	375	450
	Lower - 14	Lower - 400	Lower - 690 X 700 X 800		Lower - 2			

* Newtronic reserve the rights to change the product specifications without prior notice.

NLEPL/PRC/0325/4.0

Features

| Ethernet | Documents | Alarms | Mobile Alert | Safety | Software |
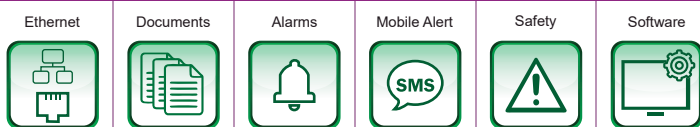
Temperature Range: (Ambient+5)°C to 60°C	Temperature Range: 50°C to 300°C
# Bacteriological Incubators	# Laboratory Ovens

Standard Equipment

➢ Double walled with Rockwool insulation
➢ SS 304 Interior & Exterior either SS 304 or Mild Steel
➢ Mesh type Stainless Steel trays
➢ Forced air circulation for uniform temperature
➢ PU wheels for easy movement
➢ SS tubular heaters
➢ I-Series: Models with 21 CFR part 11 connectivity | 1000 readings | Online print facility
　　　　　　　OR
　　E-Series: Auto tune PID controller | 2 line LED display
➢ Ramp & soak facility
➢ High quality PT-100 Temperature Sensor
➢ Safety Device: High Temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
➢ Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

• As mentioned above

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipment

◆ **Selection Guide**

Model (Bacterial Incubator)	Model (Laboratory Oven)	Capacity		Internal Size	External Size	Trays Qty.	Trays Size
		CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm
NLLI3SE	NLLO3SE	3	90	450 X 450 X 450	800 X 560 X 760	2	430 X 430
NLLI5SE	NLLO5SE	5	121	600 X 450 X 450	950 X 560 X 820	2	430 X 430
NLLI8SE	NLLO8SE	8	216	600 X 600 X 600	950 X 760 X 1030	2	560 X 560
NLLI12SE	NLLO12SE	12	324	900 X 600 X 600	1410 X 760 X 1060	3	560 X 560
-	NLLO16SE	16	430	1200 X 600 X 600	1710 X 760 X 1125	4	560 X 560
-	NLLO26SE	26	735	1500 X 700 X 700	2010 X 860 X 1225	5	660 X 660
-	NLLO34SE	34	1000	1500 X 800 X 800	2010 X 960 X 1325	5	760 X 760

*Last 3 models of Laboratory Ovens have temperature range from 50˚C to 110˚C

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

Alarms	Safety	Software	Documents

Vacuum Ovens

Standard Equipment

➢ The interior and the exterior of the chamber is made of stainless steel (SS304)
➢ Fitted with highly accurate controller that allows gentle drying of heat sensitive materials avoiding damage due to rapid temperature overshooting
➢ Considerable reduction in drying time | Dries faster than the conventional oven
➢ Separate vacuum connection valve preventing oil spilling in the oven
➢ Separate vacuum release valve releasing vacuum by gentle turning of the knob
➢ Calibrated vacuum gauge
➢ The door is provided with silicon gasket & positive latch to maintain seal at all vacuum levels
➢ Door with glass window for viewing of the sample inside the chamber
➢ Heater mounted below the tray, ensures rapid & equal heating without any thermal loss
➢ High quality PT-100 Temperature Sensor
➢ Safety Device : Electromagnetic relay
➢ Audio/Visual alarms for deviation
➢ Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

Power supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

• Temperature Range   : 40˚C to 200˚C

Optional Accessories

➢ ICDAS -A Single Software installation for all Newtronic make equipments

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		Eqip.	Ship.
NLVO1SE	1	30	275 X 300 X 300	655 X 440 X 420	1	35	65

Also available : I-series Models with 21 CFR part 11 connectivity; ramp & soak facility and print facility

Features

Alarms	Safety	Software	21 CFR Compliant

Temperature Range: 50ºC to 110ºC

Pass Through Ovens

Standard Equipment

➢ Double walled with Rockwool insulation
➢ SS 304 Interior & Exterior either SS 304 or Mild Steel
➢ **Double door opening; each on opposite side double door with interlocking facility**
➢ Mesh type stainless steel trays
➢ Forced air circulation for uniform temperature
➢ SS tubular heater
➢ PU wheels for easy movement
➢ Auto tune PID controller with 2 line LED display as well as ramp & soak facility
➢ High quality PT-100 temperature sensor
➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

Power Supply: 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

SPECIFICATIONS

• Temperature Range : 50˚C to 110˚C

◆ Selection Guide

Model	Capacity		Internal Size	External Size	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter	(H*W*D) mm	(H*W*D) mm		(W*D) mm	Eqip.	Ship.
NLPT16SE	16	430	1200 X 600 X 600	1485 X 1290 X 840	4	560 X 560	250	325
NLPT26SE	26	735	1500 x 700 x 700	2095 x 860 x 905	5	660 X 660	300	375
NLPT34SE	34	1000	1500 X 800 X 800	1785 X 1490 X 1040	5	760 X 760	350	425

*Capacities lesser or greater than those stated above are available upon request

* Newtronic reserve the rights to change the product specifications without prior notice.

NLEPL/PRC/0325/4.0

Features | Alarms | Safety | Documents | Interlocking Door Facility

Standard Equipment

- Unique Slim design with Outer and Inner Tank of SS304
- Insulated tank for better performance
- Top-Opening lid, with single lever mechanism and self-bulge seal rim
- PU wheels for easy movement
- Class A PT-100 **4pt. Scanner** for accurate control/monitoring
- All operations through a single 7" Color Touch Screen Display
- Complete Operations driven through IOT enabled controller with data logging
- 6 nos. of pre-loaded recipes (customizable)
- Safety valve for over pressure protection with automatic release of pressure
- Automatic shutdown upon completion of sterilization cycle with release of pressure
- Audio/Visual notification upon cycle completion
- Audio/Visual Alarms for low water level; Temperature deviations
- FO value and Batch-wise Report
- Safety Features: Over-pressure protection; Temperature Cut-off; emergency venting system and automatic pressure lever lock mechanism
- Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual
- 21 CFR Part II Ready Software
- Traceable audit trails and alarm reports

Power supply: 230 volts 50 Hz main supply.

SPECIFICATIONS

- Temperature Range : 100˚C to 125˚C
- Pressure Range   : up to 2 Bar

Optional Accessories

- ICDAS -A Single Software installation for all Newtronic make equipments
- SS Wire Mesh Baskets

◆ Selection Guide

Model No	Capacity		Tank Size	External Size	Basket Size	No. of Baskets	Approx. Weight (Kg)
	CuFt.	Liter	(Dia x D) mm	(H x W x D) mm	(Dia x D) mm		Eqip.
NLAC2SI	2	50	350 x 540	995 x 785 x 570	300 x 500	1	50
NLAC3SI	3	100	450 x 630	1085 x 885 x 670	400 x 600	1	74
NLAC5SI	5	150	550 x 630	1085 x 985 x 770	500 x 600	1	98
NLAC7SI	7	200	550 x 850	1305 x 985 x 770	500 x 400	2	120

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Features

| Ethernet | Alarms | Touch Screen | Safety |

Biological Safety Cabinet

Standard Equipment

➢ Exterior available in PCGI or SS304
➢ Interior available in SS304 or SS316 or SS316L
➢ Single piece SS working table which can be easily removable for easy cleaning
➢ Multiple side-entry for Gas knobs
➢ 4mm Tempered Sliding Glass Door with counter-weight arrangement
➢ Intermediate pre filter
➢ H14 - HEPA Filter (99.97% down to 0.3 micron)
➢ Microprocessor based Controller
➢ UV light with timer
➢ Optimal performance of air velocity, airflow and uniformity through dynamic balanced blower/motor
➢ State-of-the-art Display:
   • Sash status
   • Air Pressure
   • UV Light status
   • UV Burning Hours
   • HEPA status
➢ Audio & visual alarms for airflow, pressure and sash height
➢ Digital Pressure monitor
➢ Door interlock for UV light and blower

Power supply: 230 volts 50 Hz main supply.

AVAILABLE IN

• Class II A2
• Class II B2

Optional Accessories

➢ Virus burn unit

◆ Selection Guide

Classification	Model	Internal Size	External Size	Approx. Weight (Kg)
		(H x W x D) mm	(H x W x D) mm	Eqip.
Class II A2	NLBS2A2	610 x 610 x 610	2200 x 720 x 800	130
	NLBS3A2	610 x 915 x 610	2200 x 1030 x 800	155
	NLBS4A2	610 x 1220 x 610	2200 x 1330 x 800	168
Class II B2	NLBS2B2	610 x 610 x 610	2200 x 720 x 800	130
	NLBS3B2	610 x 915 x 610	2200 x 1030 x 800	155
	NLBS4B2	610 x 1220 x 610	2200 x 1330 x 800	168

* Newtronic reserve the rights to change the product specifications without prior notice.

Features

Alarms

Safety

Laminar Air Flow Cabinet

Standard Equipment

➢ Exterior available in PCGI or SS304
➢ Interior available in SS304 or SS316 or SS316L
➢ SS operation table and acrylic side baffle
➢ Compact design for Ultraclean dustfree environment
➢ Fully enclosed sides to create positive pressure inside the cabinet
➢ Intermediate pre filter
➢ H14 - HEPA Filter (99.97% down to 0.3 micron)
➢ UV light with timer
➢ Optimal performance of air velocity, airflow and uniformity through dynamic balanced blower/motor
➢ State-of-the-art Display:
  • Sash status
  • Air Pressure
  • UV Light status
  • UV Burning Hours
  • HEPA status
➢ Audio & visual alarms for airflow and sash height
➢ Multiple side entry for Gas knob

Power supply: 230 volts 50 Hz main supply.

AVAILABLE IN

• Horizontal
• Vertical

◆ Selection Guide

Model		Internal Size	External Size	Approx. Weight (Kg)
		(H x W x D) mm	(H x W x D) mm	Eqip.
NLHL2S	NLHL2M	610 x 610 x 610	2080 x 720 x 870	90
NLHL3S	NLHL3M	610 x 915 x 610	2080 x 1030 x 870	115
NLHL4S	NLHL4M	610 x 1220 x 610	2080 x 1330 x 870	133

Features

Alarms | Safety

Support & Services

Timely Servicing of Chambers increases the life and performance of Stability Chambers. Newtronic has a highly dedicated and up to date trained staff for the services of our clients.

Services Offered

- Annual Maintenance Contract (Preventive Maintenance; Breakdown; Calibration/Validation)
- Comprehensive Maintenance Contract (AMC + Free replacement of spares*)
- Upgradations
- Third-Party Upgradations/Contract
- Tech Support (21 CFR Part 11 Software; PLC)
- Support for all kinds of Regulatory Audits (USFDA; MHRA; EU-GMP; WHO; etc.)

Strengths

- Global presence of 150+ engineers and counting!
- Engineers with comprehensive expertise across refrigeration, electronics, mechanics, and software domains.
- NABL Accredited Lab (CC-4046)
- Global TAT of 24 hours
- 24/07 Online Support
- PAN-India Branch Network — For a complete list of our locations, please refer to the back cover or visit our website.
- Regional stocking of critical spares.
- Audit Support and justification to audit observations.
- International Service Support across 55+ countries.
- Documentation
- Globally 6000+ Contracts & counting!
- 97% Repeat Customer base

* Spares offered under free replacement are limited in
  nature. Contact your support executive for more details

NLEPL/PRC/0325/4.0

# Introducing Remote View & Alarm System (RVAS)

RVAS
Remote View & Alarm System

Access Anywhere Anytime

Take Remote Monitoring to an in-depth level of information-sharing with NEWTRONIC's Remote View and Alarm System (RVAS).

RVAS Features:

1. View & Acknowledge real-time T/RH reading of EACH sensor
2. View status of each I/O Components (humidifier, heater, compressor, etc)
3. View status of Utilities (Main Supply, Door, Water Level)
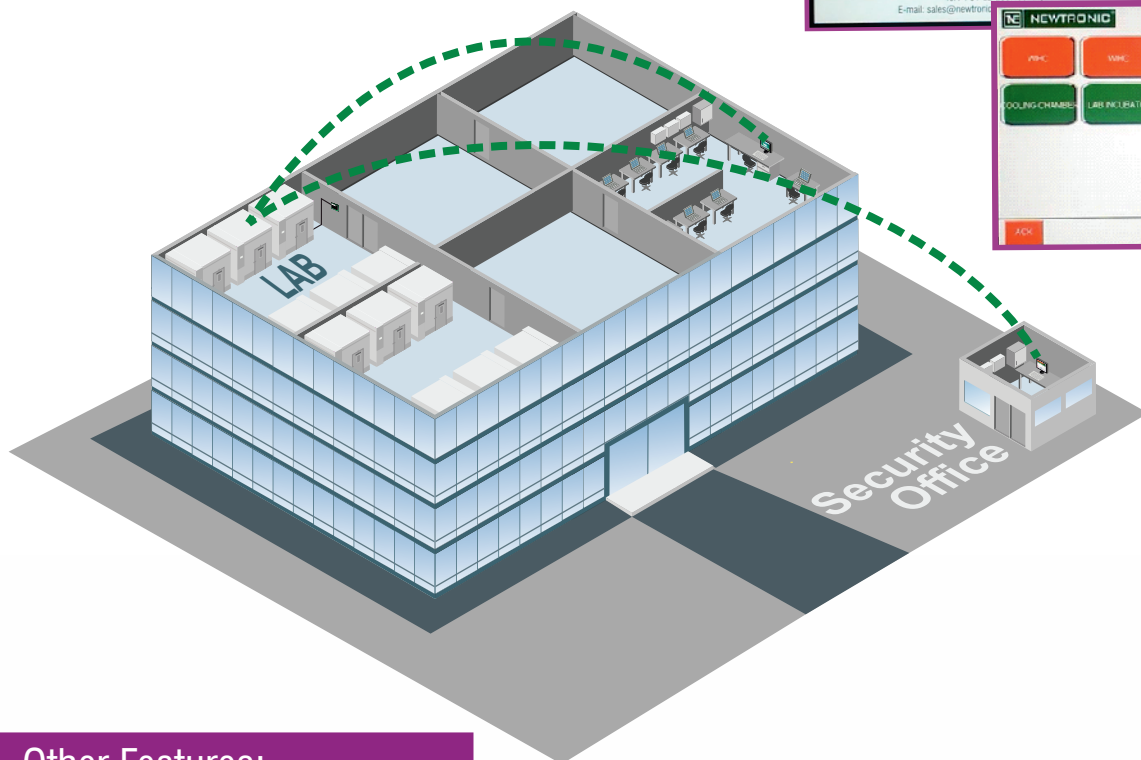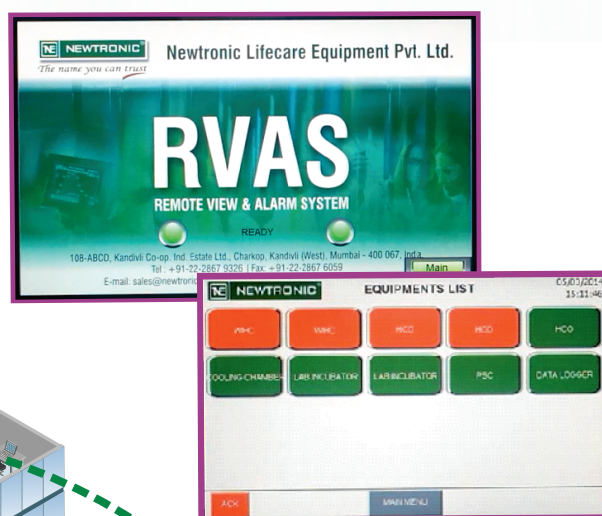
Other Features:

- 7" colour touch screen display
- Connect upto 20 equipments on TCP/IP with on-site programming
- Eliminate the need for cabling

- Audio hooter & Visual display to notify alarms & deviations
- Department-wise segregation of users & chambers
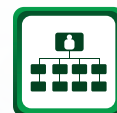- System Diagnosis
- IQ, OQ protocols

Real Time   **Alerts 24/7**   **Alerts Groups**   **Multiple Interfaces**
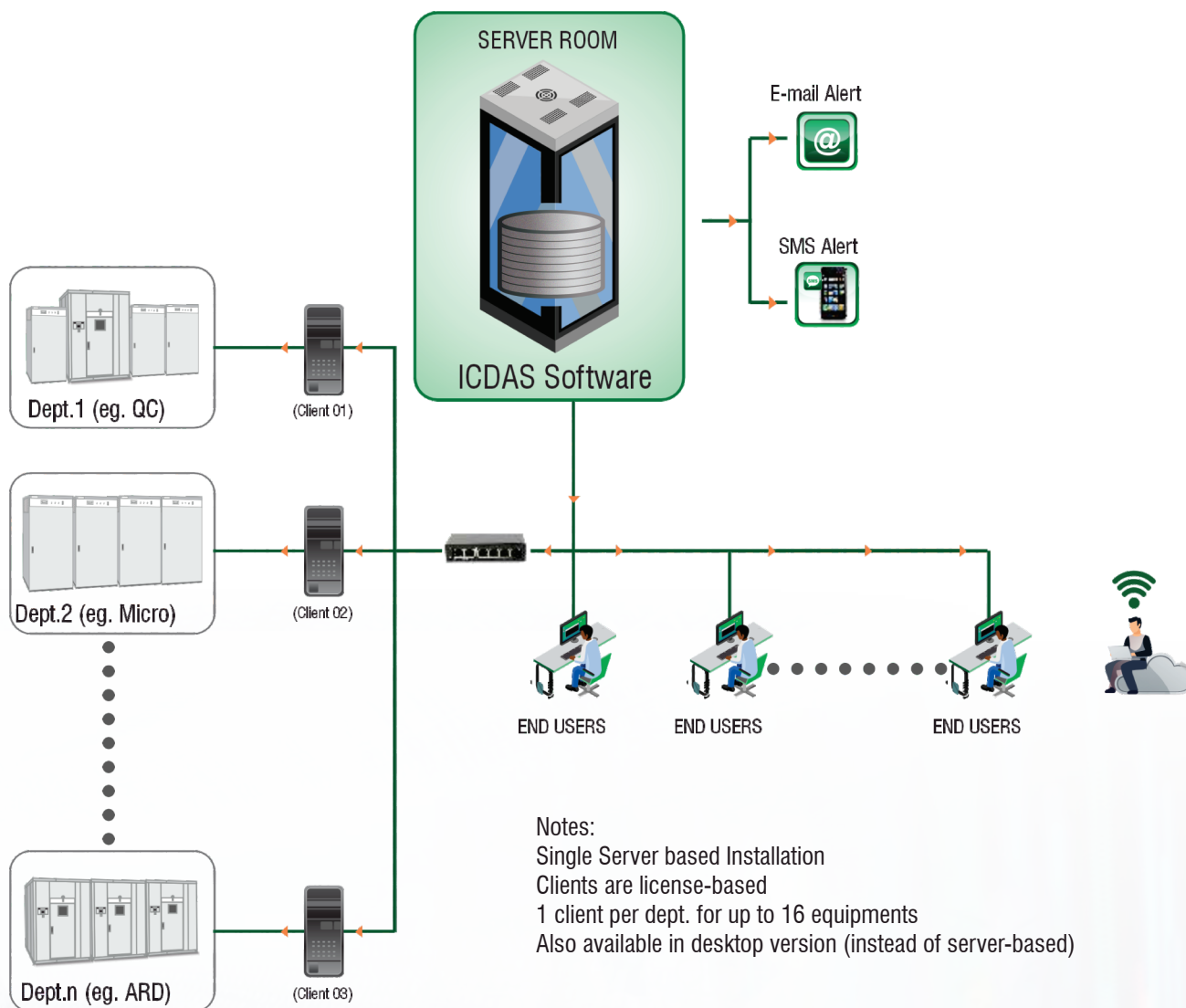
ICDAS - Web-based 21 CFR Part 11 Software

Access Anywhere Anytime

NEWTRONIC's ICDAS software changes the landscape of Stability Operations & Chamber Management. While it very effectively complies to the requirements of 21 CFR Part 11, it also meets the increasing demands for improved operational efficiencies. This server-based software gives the flexibility to operate the chambers remotely through any web browser and gives additional capabilities of going Paperless and system-based alert notifications of pending tasks.

Software Architecture

SERVER ROOM

E-mail Alert

SMS Alert

ICDAS Software

Dept.1 (eg. QC)   (Client 01)

Dept.2 (eg. Micro)   (Client 02)

Dept.n (eg. ARD)   (Client 03)

END USERS   END USERS   END USERS

Notes:
Single Server based Installation
Clients are license-based
1 client per dept. for up to 16 equipments
Also available in desktop version (instead of server-based)

- Ever-ready for surprise audits
- Go Paperless
- Restricted Access Rights & Privileges
- Seamless Configuration
- Safe & Secure Data
- Date & Timestamp Audit Trails

Fast | Simple | Economical | Reliable

ALCOA+

Contemporaneous
Legible
Original
Attributable
Newtronic ICDAS
Accurate
Complete
Available
Consistent
Enduring

NLEPL/ICDAS/0225/3.1.1
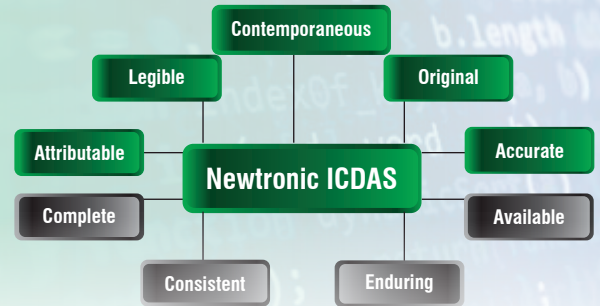
Instantly connect and control your chambers from anywhere without installing software.

Key Features

Installation

- Cloud-based Software accessible through Browser
- **Installation that is one-time for Lifetime!** Eliminate the need for multiple software installation & qualifications!

Data Management

- **GO PAPERLESS!!** e-Review, e-Approval, e-Signature, e-Comments of:
  Data Logs | Alarms | Audit Trails
- Multi-level data authorization (through e-review & e-approval)
- Comprehensive Audit Trails of Alarms, User activity, Equipment settings, email & SMS generation
- **Stay Audit-Ready every single day through Supervisory Email facility!**
- Run-time calculation of MKT & MKRh
- Real-time display of all connected equipment in single screen

Configuration

- Configure multiple user-groups (Operator, Supervisor, Admin, etc)
- Department-wise segregation of users, equipment & data
- Plant-wide harmonization of reporting format (header, footer, etc.)
- Configure the type & no. of alarms to be sent via email/SMS & configure delay time too

Safe & Secure

- Automatic & Manual daily data backup facility. Automatic data backup can be done both, remotely & locally
- Additional features of Data Archival & Data Restore

Other Features

- Viewing I/O Status & Running Hours of all major components. Component running hours to determine the shelf-life of major components
- Centralized user-defined Alarms, Alerts & Notifications through SMS & emails
- System Diagnosis for troubleshooting via Team Viewer
- **Document Library | e-SMS | Alarm recording in secs (subject to hardware compatibility)**

LDAP

- **LDAP (Light-weight Directory Access Protocol) Integration: Access ICDAS through your corporate email id/password**

Internationally proven innovative product range
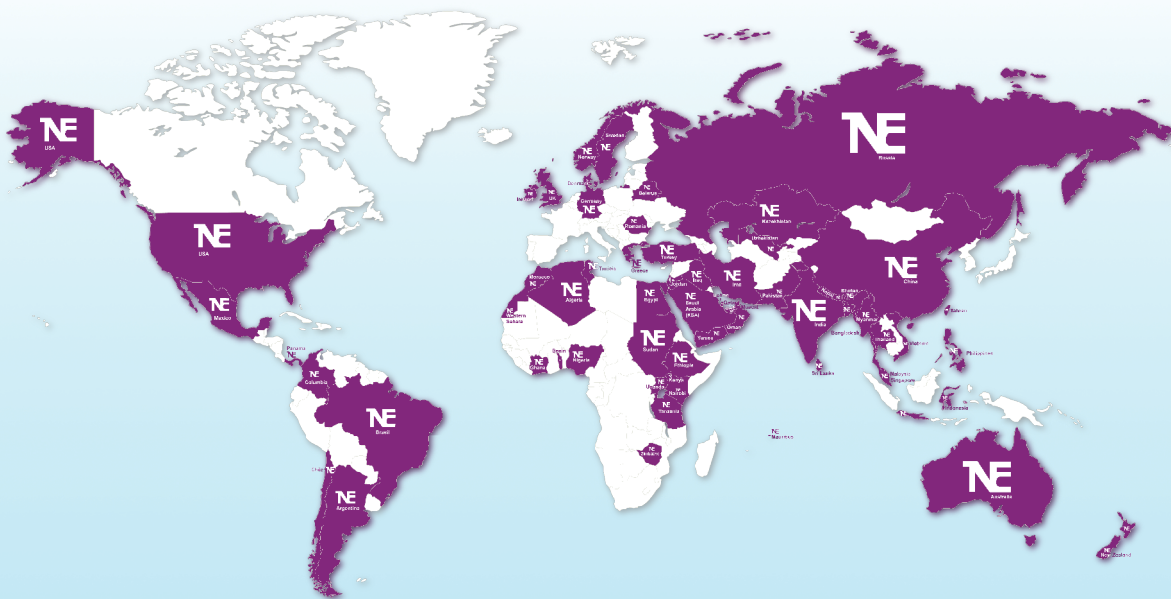
Newtronic Service Centers:

Domestic:

Ahmedabad	Hyderabad / Vizag
Baddi	Indore
Bangalore	Kolkata / Sikkim
Chennai	Mumbai
Delhi	Pune
Goa	Vadodara

International:

Algeria	Iraq	New Zealand	Turkey
Australia	Jordan	Nigeria	Uganda
Bangladesh	Kazakhstan	Oman	UK
China	KSA	Philippines	USA
Egypt	Latin America	Russia	Vietnam
Ethiopia	Malaysia	Singapore	
Indonesia	Morocco	Sri Lanka	
Iran	Nepal	Thailand	

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* Newtronic reserve the right to change product specifications without prior notice

NE NEWTRONIC®
The name you can trust

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ISO 9001:2015 | ISO 13485:2016 | NABL ISO/IEC 17025:2005

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