

Innovation | Technology | Precision



*The name you can trust*



Newtronic Lifecare Equipment Pvt. Ltd.  
[www.newtronic.in](http://www.newtronic.in)

Manufacturer of Humidity (Stability) Chambers | Walk-in Chambers | Deep Freezers | Ultra Low Deep Freezers  
Cooling Chambers | Photostability Chambers | Incubators | Web based Software



Complete Stability Solutions....



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 intelligent controlling systems
- ◆ Web-based software to access the chambers from anywhere, anytime
- ◆ Installation of more than 10,000 Chambers
- ◆ Large-sized chambers of upto 1 Million Litre capacity
- ◆ Execution of a single order of Walk-In Stability Chambers worth (₹.100) Million (USD \$1.7 Million)

## Innovation | Technology | Precision

.... our key to excellence

For over 44 years now, NEWTRONIC LIFECARE has established itself as one of the leading brands in the space of Laboratory Equipments. Through a setup of task-specific departments, inter-department synergy & adherence to processes, we ensure a professionally managed environment for our employees & customers. We understand very clearly that the backbone of a successful customer relationship is an after-sales support that responds quickly & efficiently. We have therefore established service centers in all the major pharma hubs & states of India Over 49 countries internationally.



# STABILITY CHAMBERS | CUSTOM DESIGN & VALIDATION

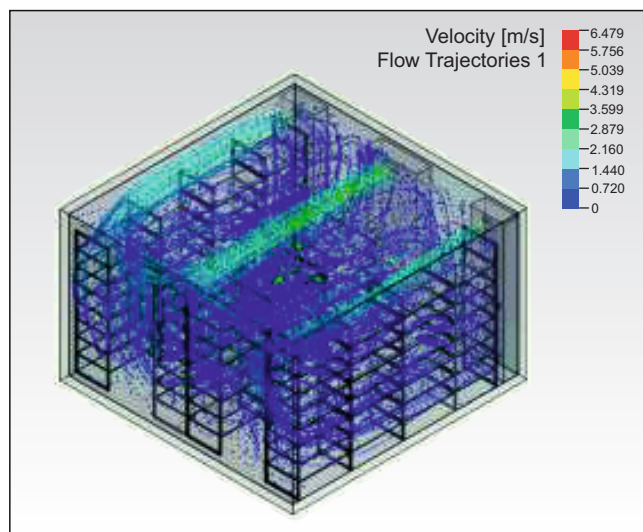
## Specialized Design to meet Specific Needs



### 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	<b>Long Term*</b>	25°C ± 2°C / 60% RH ± 5% RH 30°C ± 2°C / 65% RH ± 5% RH 30°C ± 2°C / 75% RH ± 5% RH	12 months
	<b>Accelerated</b>	40°C ± 2°C / 75% RH ± 5% RH	06 months
Drug Products packed in Semi-permeable container	<b>Long Term*</b>	25°C ± 2°C / 40% RH ± 5% RH 30°C ± 2°C / 35% RH ± 5% RH	12 months
	<b>Intermediate</b>	30°C ± 2°C / 65% RH ± 5% RH	06 months
	<b>Accelerated</b>	40°C ± 2°C / NMT 25% RH	06 months
Drug Products for storage in Refrigerator	<b>Long Term*</b>	5°C ± 3°C	12 months
	<b>Accelerated</b>	25°C ± 2°C / 60% RH ± 5% RH	06 months
Drug Products intended for storage in a Freezer	<b>Long Term*</b>	-20°C ± 5°C	12 months
MVTR - Moisture Vapor Transmission Rate	-	23°C / 75% RH 25°C / 80% RH	
ICH Q1 B	<b>Photostability</b>	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 PLC itself
- At an interval of 30 mins, data upto 20 days is stored on the PLC 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-condensing 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)



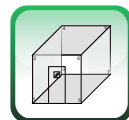
## Mobile Alert System

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



## Safety

- Temperature Overshoot/Undershoot
- Low water-level
- Delay Timer to safeguard the Compresssor
- 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
- Documentatation

**PRECISE CONTROL WITH DIVERSE APPLICATION**

Temperature Range: 20°C to 60°C  
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
- Non condensing steam injection type humidity system with standby heater & auto switch overs
- CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser
- 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 volts 50 Hz main supply. Also available with 60 Hz Cycle.

### 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

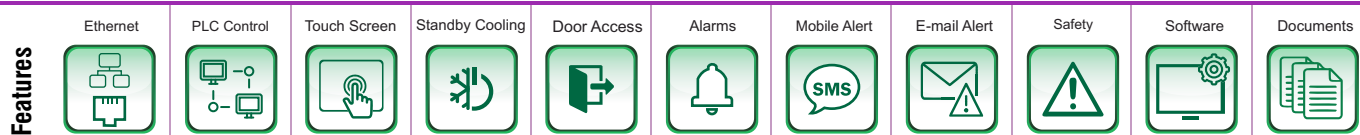
- ICDAS -A Single Software installation for all Newtronic make equipments
- 4 pt. Temperature & Humidity Scanner
- Stand by Cooling System with auto switch over (430 litre & above)
- Door Access system (Numeric or Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile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

### ◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	Ship.
NLHC7SI	7	200	800 X 500 X 500	1315 x 660 x 985	3	430 X 460	150	225
NLHC16SI	16	430	1200 X 600 X 600	1715 x 760 x 1155	4	530 X 560	250	325
NLHC26SI	26	735	1500 X 700 X 700	2070 x 860 x 1255	5	630 X 660	275	350
NLHC34SI	34	1000	1500 X 800 X 800	2070 x 960 x 1355	5	730 X 760	350	425
NLHC54SI	54	1500	1500 X 1600 X 600	2070 x 1760 x 1155	10	695 X 560	350	450
NLHC71SI	71	2000	1500 X 1600 X 800	2070 x 1760 x 1355	10	695 X 760	375	475

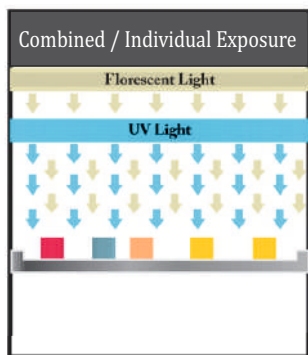
## Also available in PELTIER TECHNOLOGY

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



Temperature Range: 10°C to 40°C

# Photo Stability Chambers



## Small, Efficient, Sufficient



### 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	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.

<b>Features</b>	Ethernet	PLC Control	Touch Screen	Alarms	Mobile Alert	E-mail Alert	Safety	Software	Documents

Temperature Range: 20°C to 60°C  
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 Psychrometric 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 - 300 x 300 mm
- PVC strip curtain for reducing temperature leakages
- Illuminated working area
- Flooring of Linoleum carpet
- 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.

### 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

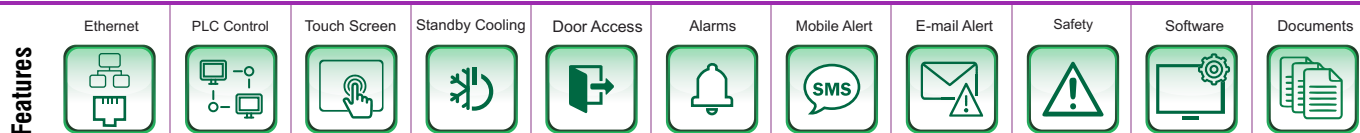
- ICDAS -A Single Software installation for all Newtronic make equipments
- 8 pt. Temperature & Humidity Scanner
- Stand by Cooling System with auto switch over
- Door Access system (Numeric or Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System

### ◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm
	CuFt.	Liter				
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

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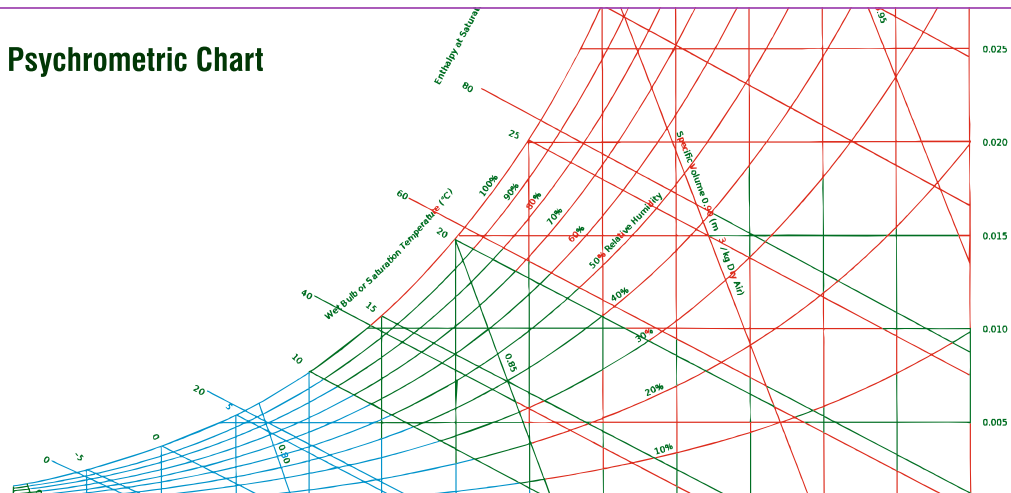




Temperature Range: 20°C to 60°C  
Humidity Range: 40% Rh to 95% Rh

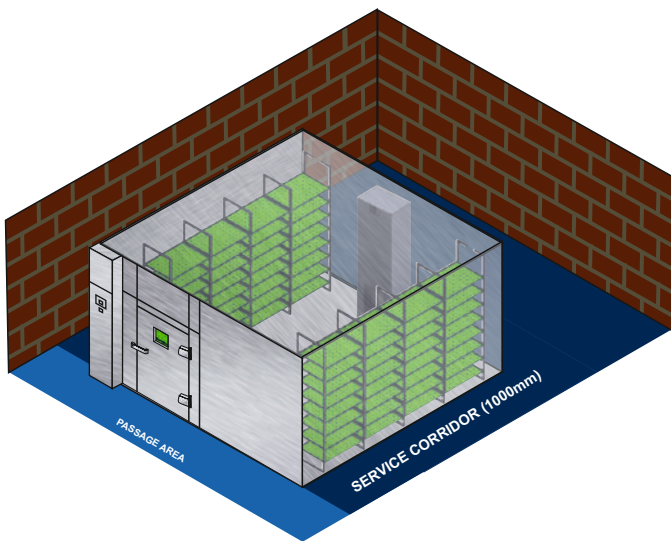
# ECOTRONIC Walk-In Stability Chambers

## Psychrometric Chart

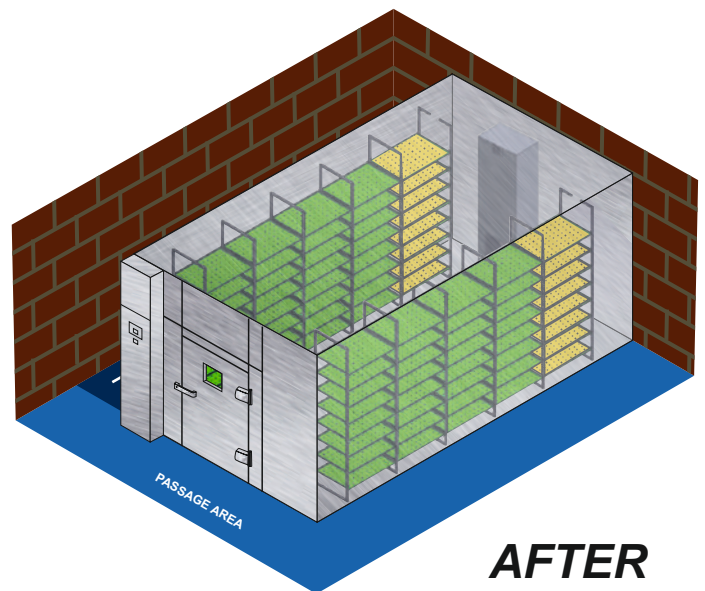


**ecotronicSystem**  
Green Mode Energy Optimisation

**Patented Technology**  
INTELLECTUAL PROPERTY INDIA No:398204



**BEFORE**



**AFTER**



## Introducing a Patented Technology for Green Mode Energy Optimization



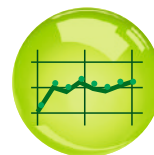
Based on Principles of Dew Point Control



Low Power & Water Consumption



More Storage Area



No short term Deviations



Less Breakdown

Temperature Range: -20°C to 50°C

## 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	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.



Upper Temperature Range: 2°C to 8°C  
 Lower Temperature Range: -10°C to -25°C

# 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
- 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.

## SPECIFICATIONS

- Upper Temperature Range: 2°C to 8°C
- Lower Temperature Range: -10°C to -25°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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	Ship.
NLCR14MI	Upper - 7	Upper - 200	Upper - 510 X 560 X 700	2070 X 720 X 1005	Upper - 2	540 X 605	300	375
	Lower - 7	Lower - 200	Lower - 510 X 560 X 700		Lower - 2			

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

Features	Ethernet	Alarms	Mobile Alert	Safety	Software	Documents

Temperature Range: 2°C to 8°C

# Laboratory Refrigerators

## 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 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" 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.



## 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	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

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

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

Temperature Range: 2°C to 8°C

# Walk-In Cold Room



Also Available

**Flameproof (Spark-free)**  
**FIREsafe**  
 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 - 300 x 300 mm
- PVC strip curtain for reducing temperature leakages
- Illuminated working area
- Flooring of Linoleum carpet
- 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.

## 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm
	CuFt.	Liter				
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-enable Controller	Touch Screen	Standby Cooling	Door Access	Alarms	Mobile Alert	E-mail Alert	Safety	Software	Documents

Temperature Range: -25°C to 0°C

## 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
- 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 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

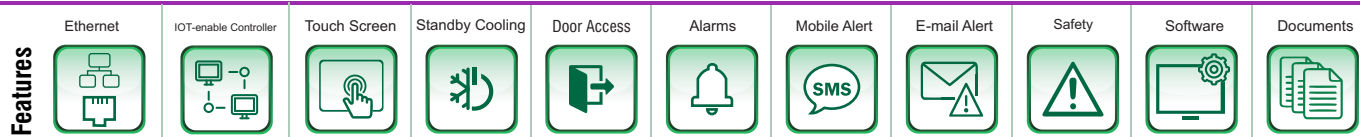
### Optional Accessories

- ICDAS -A Single Software installation for all Newtronic make equipments
- 4 pt. Temperature Scanner
- Stand by Cooling System with auto switch over (700 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	Ship.
NLDF7MI	7	200	510 X 560 X 700	1500 X 720 X 880	2	540 X 605	175	250
NLDF11MI	11	300	910 X 560 X 590	1955 X 720 X 770	3	540 X 495	225	300
NLDF14MI	14	400	910 X 560 X 785	1955 X 720 X 965	3	540 X 690	275	350
NLDF25MI	25	700	1200 X 800 X 730	2120 X 960 X 1020	4	780 X 635	300	375
NLDF34MI	34	1050	1200 X 1200 X 730	2110 X 1360 X 1020	8	515 X 635	325	425
NLDF54MI	54	1500	1200 X 1500 X 830	2110 X 1660 X 1120	8	660 X 735	350	450

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



Temperature Range: -25°C to 0°C

## 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
- ▶ Illuminated working area
- ▶ Flooring of Linoleum carpet
- ▶ 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-drainage 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 2-8 °C

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

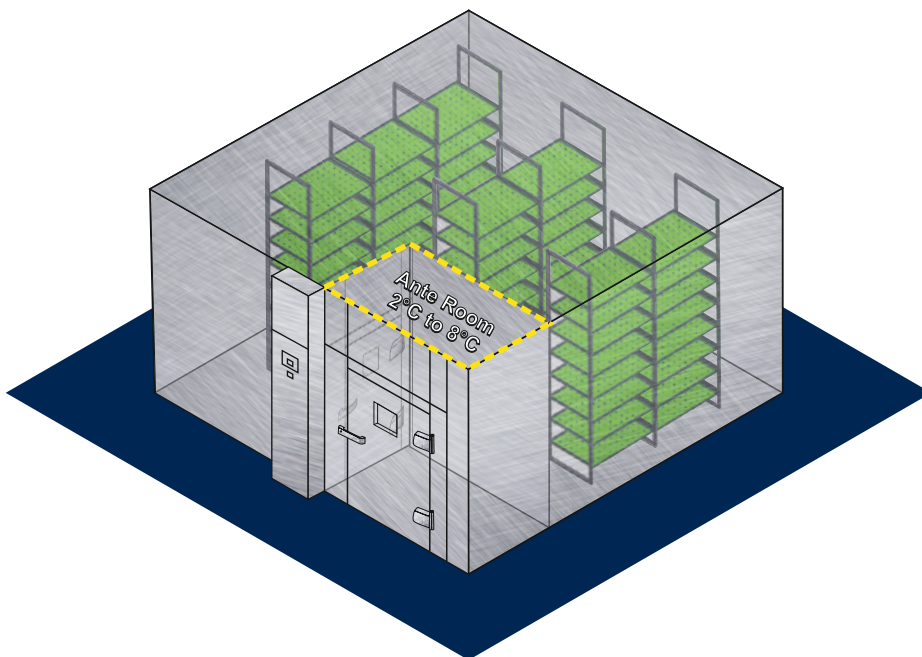


### SPECIFICATIONS

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

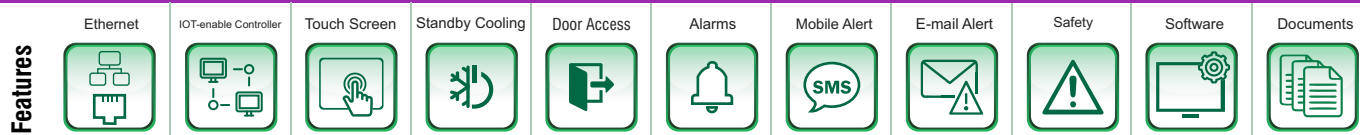
### Optional Accessories

- ▶ 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



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.



Temperature Range: -60°C to -86°C

## 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

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

### SPECIFICATIONS

- Temperature Range : -60°C to -86°C
- Temperature Accuracy : ± 5°C
- Temperature Uniformity : ± 10°C

### Optional Accessories

- 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Compartment
	CuFt.	Liter			
NLUF04MI	04	100	514 X 450 X 439	820 X 1066 X 742	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
NLUF23MI	23	678	1286 x 750 x 696	1955 x 1090 x 1025	03
NLUF27MI	27	778	1286 x 865 x 696	1955 x 1205 x 1025	03
NLUF30MI	30	858	1378 x 877 x 696	2005 x 1217 x 1025	04
NLUF36MI	36	1008	1378x 1022 x 696	2002 x 1362 x 1025	04

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

<b>Features</b>	Low power Consumption	Extended warm-up-time	Excellent Uniformity



Temperature Range: 18°C to 50°C

## CO<sub>2</sub> 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 CO<sub>2</sub> gas via specially designed air flow patterns
- IR-based CO<sub>2</sub> sensor for CO<sub>2</sub> 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<sub>2</sub> range: 0 to 20%

### Optional Accessories

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

### ◆ Selection Guide

Model	Capacity (Cu. Ft.)	Capacity (Ltr)	Internal Size (H*W*D) mm	External Size (H*W*D) mm	Qty of Shelf	Shelf Size (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.

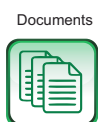
Features



Alarms



Safety



Documents

Temperature Range: 10°C to 60°C

## BOD Incubators (Refrigerated 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
- 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
- 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.



### SPECIFICATIONS

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

### Optional Accessories

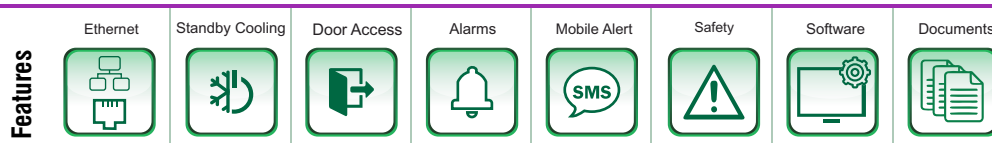
- ICDAS -A Single Software installation for all Newtronic make equipments
- 4 pt. Temperature Scanner
- Stand by Cooling System with auto switch over (430 litre & above)
- Door Access system (Numeric or Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert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

### ◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	Ship.
NLBI7SI	7	200	800 X 500 X 500	1315 x 660 x 965	3	430 X 460	150	225
NLBI16SI	16	430	1200 X 600 X 600	1715 x 760 x 1105	4	530 X 560	250	325
NLBI26SI	26	735	1500 X 700 X 700	2070 x 860 x 1205	5	630 X 660	275	350
NLBI34SI	34	1000	1500 X 800 X 800	2070 x 960 x 1305	5	730 X 760	350	425
NLBI54SI	54	1500	1500 X 1600 X 600	2070 x 1760 x 1105	10	695 X 560	350	450
NLBI71SI	71	2000	1500 X 1600 X 800	2070 x 1760 x 1305	10	695 X 760	375	475

## Also available in PELTIER TECHNOLOGY

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



Temperature Range: 10°C to 60°C

# 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 - 300 x 300 mm
- PVC strip curtain for reducing temperature leakages
- Illuminated working area
- Flooring of Linoleum carpet
- 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

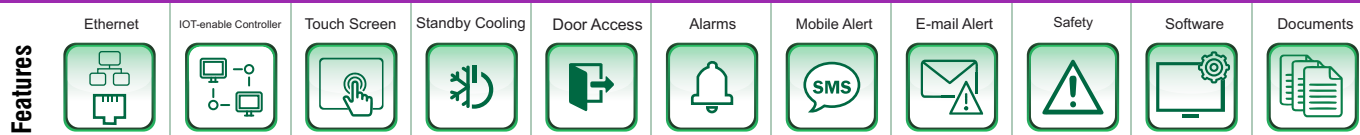
## ◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm
	CuFt.	Liter				
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.



Upper Temperature : 10°C to 60°C  
 Lower Temperature : 10°C to 60°C

## 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
- CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation condenser
- 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.



### SPECIFICATIONS

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

### Optional Accessories

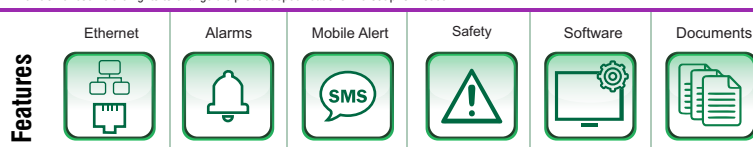
- ICDAS -A Single Software installation for all Newtronic make equipments
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System

### ◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	Ship.
NLDC14SI	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			
NLDC28SI	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			

## Also available in PELTIER TECHNOLOGY

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



Temperature Range: (Ambient+5)°C to 60°C

# Bacteriological Incubators

## Standard Equipment

- Double walled with PUF insulation
- SS 304 Interior & Exterior either SS 304 or Mild Steel
- Stainless Steel trays
- Forced air circulation for uniform temperature
- PU wheels for easy movement
- SS tubular heaters
- Complete operations driven through PID controller with data logging capacity of upto 1000 readings and with online print facility
- High speed Ethernet based communication
- 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.

## SPECIFICATIONS

- Temperature Range : (Ambient+5)°C to 60°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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm
	CuFt.	Liter				
NLLI3SE	3	90	450 X 450 X 450	800 X 560 X 760	2	430 X 430
NLLI5SE	5	121	600 X 450 X 450	950 X 560 X 820	2	430 X 430
NLLI8SE	8	216	600 X 600 X 600	950 X 760 X 1030	2	560 X 560
NLLI12SE	12	324	900 X 600 X 600	1410 X 760 X 1060	3	560 X 560
NLLI16SE	16	430	1200 X 600 X 600	1710 X 760 X 1125	4	560 X 560
NLLI26SE	26	735	1500 X 700 X 700	2010 X 860 X 1225	5	660 X 660
NLLI34SE	34	1000	1500 X 800 X 800	2010 X 960 X 1325	5	760 X 760

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

Features	Ethernet	Alarms	Mobile Alert	Safety	Software	Documents

Temperature Range: 50°C to 300°C

# Laboratory Ovens



## Standard Equipment

- Double walled with mineral wool insulation.
- SS 304 Interior & Exterior either SS 304 or Mild Steel
- Mesh type Stainless Steel trays
- Forced air circulation for uniform temperature
- SS tubular heater
- Auto tune PID controller with 2 line LED display as well as ramp & soak facility
- High quality PT-100 Temperature Sensor
- Safety Device : High Temperature cut-off settable thermostats
- 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 : 50°C to 300°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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm
	CuFt.	Liter				
NLLO3SE	3	90	450 X 450 X 450	800 X 560 X 760	2	430 X 430
NLLO5SE	5	121	600 X 450 X 450	950 X 560 X 820	2	430 X 430
NLLO8SE	8	216	600 X 600 X 600	950 X 760 X 1030	2	560 X 560
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 having temperature range from 50°C to 110°C

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

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

**Features**

Alarms	Safety	Documents

Temperature Range: 40°C to 200°C

# 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 release valve releasing vacuum by gentle turning of the knob
- Separate vacuum connection valve preventing oil spilling in the oven
- Vacuum pump connection provided at the back of the oven
- 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
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System



## ◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Approx. Weight (Kg)	
	CuFt.	Liter				Equip.	Ship.
NLV01SE	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

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

**Features**

Alarms 	Safety 	Documents 
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Temperature Range: 50°C to 110°C

## Pass Through Ovens



### Standard Equipment

- Double walled with mineral wool 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
- Micro processor based auto tune PID controller with 2 line LED display
- 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 (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	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.

Features	Alarms	Safety	Documents



Temperature Range: 100°C to 125°C

# Autoclave

## Standard Equipment

- Unique Slim design with Outer of SS304 and Inner Tank of SS316
- 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 (Dia x D) mm	External Size (H x W x D) mm	Basket Size (Dia x D) mm	No. of Baskets	Approx. Weight (Kg)
	CuFt.	Liter					Equip.
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

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

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	Equip.
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



# 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.

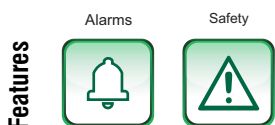
## AVAILABLE IN

- Horizontal
- Vertical

## ◆ Selection Guide

Model		Internal Size	External Size	Approx. Weight (Kg)
		(H x W x D) mm	(H x W x D) mm	Equip.
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

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

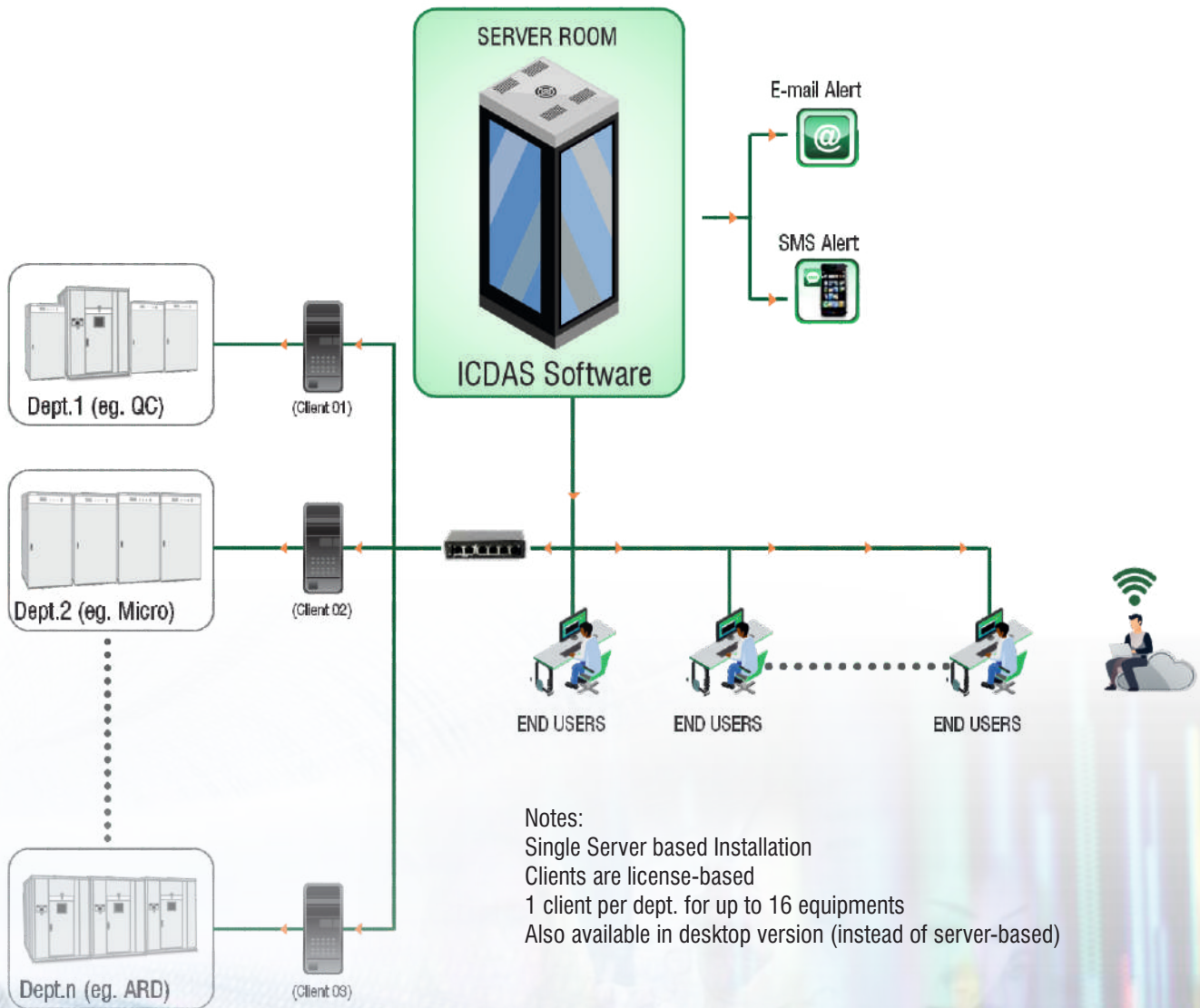


# ICDAS - A Web-based Software

## 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



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



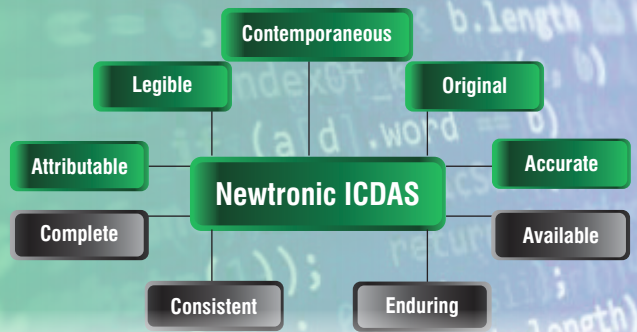
Safe & Secure Data



Date & Timestamp Audit Trails

Fast | Simple | Economical | Reliable

# ALCOA+



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
- 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
- Software to keep you USFDA 21 CFR Part 11 Ready



### LDAP

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

# Peltier Technology

**“Stability Chambers and Incubators without refrigeration and no compressor inside”**

## Thermocouple Working Principle

The working principle of a thermocouple is based on the Seebeck, Peltier, and Thomson effects.

## Peltier Effect

The Peltier effect is the absorption or release of heat when an electric current passes through a junction of two different conductors.

Peltier Cooling, also known as Thermoelectric Cooling, has many advantages, including:

### Precise Temperature Control



The temperature regulation can be fine-tuned to meet precise requirements. They are highly responsive to temperature changes and quickly adjust to the hot and cold needs.

### Compact & Light-weight



This makes the Peltier cooling systems easily portable and quick to attend to any support call.

### Environment-friendly



Since they do not use ozone-depleting or flammable refrigerants, they are very eco-friendly systems.

### Durable



Peltier Cooling Systems are easy to operate and maintain. They can easily last for over a hundred thousand hours!

### Quiet & Vibration Free



Peltier cooling systems do not have any compressors. Thus, there are no moving parts thereby ensuring quiet & vibration-free operations.

# Introducing Remote View & Alarm System (RVAS)



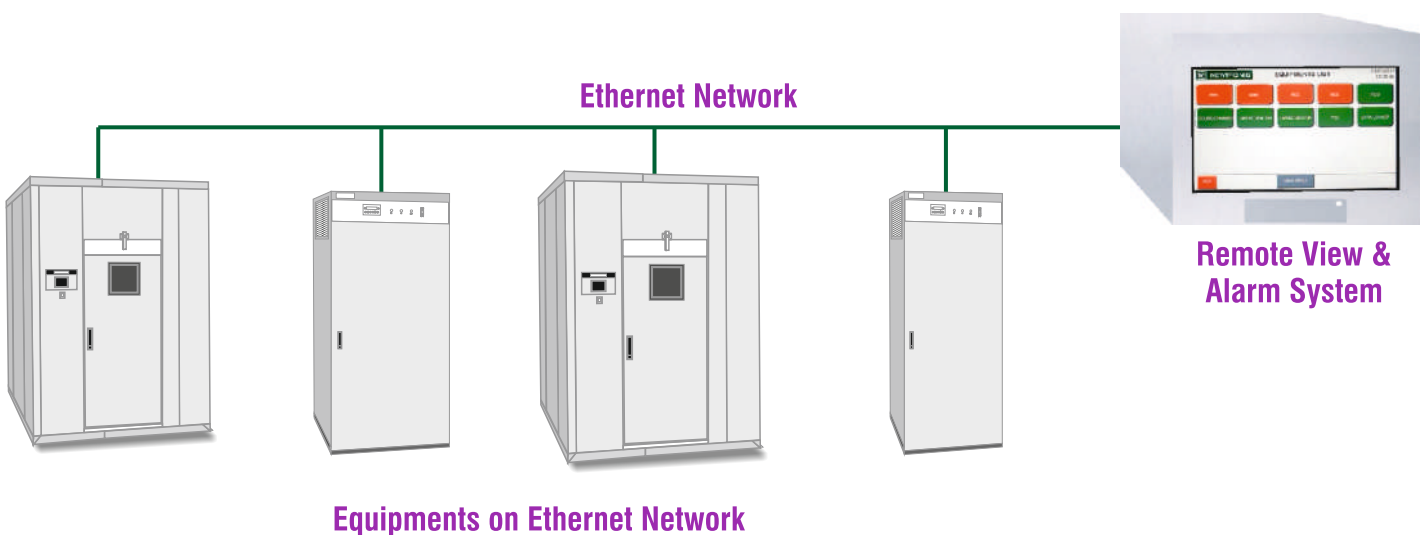
# RVAS

Remote View & Alarm System

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

# Internationally proven innovative product range



NLEPL/PRC/1224/3.4



## Newtronic Service Centers:

### Domestic:

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

### 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



*The name you can trust*

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 396171, Dist.-Valsad (Gujarat)  
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