Innovation | Technology | Precision

NE NEWTRONIC®

The name you can trust

Newtronic Lifecare Equipment Pvt. Ltd.
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....

Head Office - Mumbai

State of the Art plant - Umbergaon

Innovation | Technology | Precision
.... our key to excellence

For over 30 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 as well as in 40 countries internationally.

Welcome to the world of
NEWTRONIC – the name you can trust

◆ Established in 1980
◆ Manufacturing facility of over 60,000 sq. ft.
◆ Export to 40 countries worldwide
◆ Online services support
◆ 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)

STABILITY CHAMBERS |Custom Design & Validation

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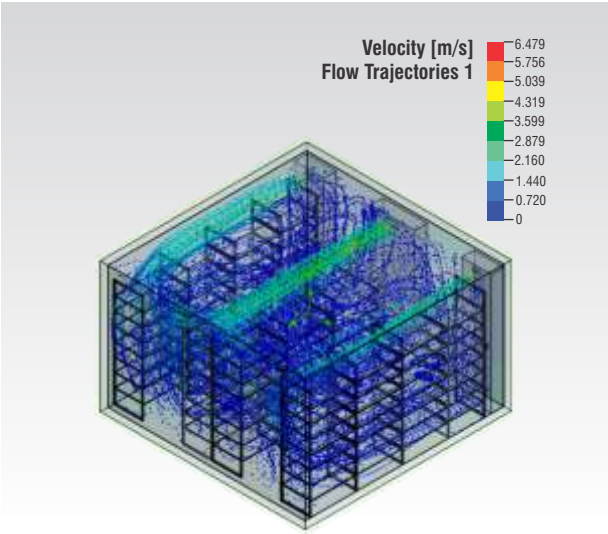
- Air Flow Stimulation Software
- Ensures uniformity of the conditions
- Determines an accurate air-path
- Determines the Hot & Cold Zones; Dry & Humid Zones
- Facilitates a proper sample loading pattern

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 Q1 A(R2) & Q1 B conditions for different applications are as follows:

Study	Conditions	Study Period	Application
Long Term*	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	General conditions
Accelerated	40° C ± 2° C / 75% RH ± 5% RH	06 months	
Long Term*	25° C ± 2° C / 40% RH ± 5% RH 30° C ± 2° C / 35% RH ± 5% RH	12 months	Drug Products packed in Semi-permeable containers
Intermediate	30° C ± 2° C / 65% RH ± 5% RH	06 months	
Accelerated	40° C ± 2° C / NMT 25% RH	06 months	
Long Term	5° C ± 3° C	12 months	Drug products for storage in Refrigerator
Accelerated	25° C ± 2° C / 60% RH ± 5% RH	06 months	
Long Term	-20° C ± 5° C	12 months	Drug products intended for storage in a Freezer
Photostability	Exposure to Light intensity of 1.2 million Lux Hours & UV Light intensity of 200 watt / sq. mtr.		ICH Q1 B
Other Conditions	+ 50° C / Ambient RH 60° C ± 2° C / 75% RH ± 5% RH		

* 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
- Significantly faster than serial(RS-485)communication
- Global standard for communication protocol
- No need for a separate PC interface
- Data Operations from any PC over the LAN

2nd Generation I-Series Controllers
- **No Data Loss:** Data Storage of 1000 readings 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 4" Color touch screen display
- PLC IP Address setting
- Component Working Hours
- Standby 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 systems
- Automatic switch-over upon failure of primary systems
- 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
- Humidity Overshoot
- 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
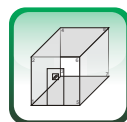
Multiple Sensors
- Either 4 or 8 probes can be placed
- Helps study the distribution of conditions in the different locations of the chamber
- Works as an auto-validation system
- Easy detection of drift in the sensors
- Helps determine the variations in conditions by change in sample-loading pattern

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 Excursions
- On-site support
- Remote support via Team Viewer
- Documentation

Precise Control with diverse Application

Humidity (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 & email facility
- High speed Ethernet based communication
- All operations through a single 4" 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 & high humidity cut-off settable hygrostats
- 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 : ± 0.2°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)
- Mobile Alert system
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments

◆ Selection Guide

	Exterior & Interior are of stainless steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
		CuFt	Litre	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
1	NLHC7SI	7	200	800 x 500 x 500	1300 x 695 x 985	3	430 x 460	150	225
2	NLHC16SI	16	430	1200 x 600 x 600	1700 x 795 x 1105	4	530 x 560	250	325
3	NLHC26SI	26	735	1500 x 700 x 700	2050 x 895 x 1205	5	630 x 660	300	400
4	NLHC34SI	34	1000	1500 x 800 x 800	2050 x 995 x 1305	5	730 x 760	325	425
5	NLHC54SI	54	1500	1500 x 1600 x 600	2095 x 1730 x 1105	10	710 x 560	350	450
6	NLHC71SI	71	2000	1500 x 1600 x 800	2095 x 1730 x 1305	10	710 x 760	375	475

Features

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

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Walk-In Humidity (Stability) Chambers

ECOtronicSystem
Green Mode Energy Optimisation

Standard Equipment

- ➢ **Chamber Operations based on Ecotronic system incorporating the principles of Dew point control as per the Psychrometric Chart**
- ➢ Double walled with 80mm 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
- ➢ 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 & email facility
- ➢ High speed Ethernet based communication
- ➢ All operations through a single 4" 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 & high humidity cut-off settable hygrostat
- ➢ 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
- ➢ 8pt. Temperature & Humidity Scanner
- ➢ Stand by Cooling System with auto switch over
- ➢ Door Access system (Numeric or Biometertic)
- ➢ Mobile Alert system
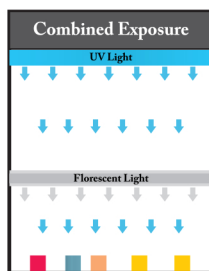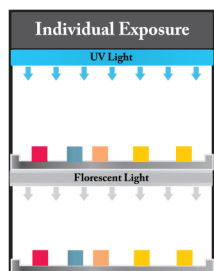- ➢ Remote alarm system suitable for 4 nos. Newtronic make equipments

◆ Selection Guide

Exterior & Interior are of stainless steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size
	CuFt	Litre	(H*W*D)mtr.	(H*W*D)mtr.		mm
NLWH204SI	204	5,712	2.00 x 1.36 x 2.10	2.16 x 1.52 x 2.26	24	870 x 300
NLWH244SI1	244	6,854	2.40 x 1.36 x 2.10	2.56 x 1.52 x 2.26	32	870 x 300
NLWH300SU	300	8,400	2.00 x 2.00 x 2.10	2.16 x 2.16 x 2.26	24	870 x 600
NLWH360SU	360	10,080	2.40 x 2.00 x 2.10	2.56 x 2.16 x 2.26	32	870 x 600
NLWH428SU	428	12,000	2.40 x 2.00 x 2.50	2.56 x 2.16 x 2.66	48	700 x 600
NLWH552SU	552	15,480	2.40 x 2.50 x 2.58	2.56 x 2.66 x 2.74	48	700 x 800
NLWH660SU	660	18,480	2.40 x 2.50 x 3.08	2.56 x 2.66 x 3.24	48	870 x 800
NLWH1071SU	1,071	30,000	2.40 x 2.50 x 5.00	2.56 x 2.66 x 5.16	80	870 x 800
NLWH1844SU	1,844	51,643	3.00 x 4.24 x 4.06	3.16 x 4.40 x 4.22	140	870 x 600
NLWH2866SU	2,866	80,253	3.00 x 4.82 x 5.55	3.16 x 4.98 x 5.71	180	870 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

Features

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

Photo Stability Chambers

Individual Exposure
UV Light

Florescent Light

Combined Exposure
UV Light

Florescent Light

Small, Efficient, Sufficient

As per ICH Q1B

PHOTOSTABILITY CHAMBER

PHOTOSTABILITY CHAMBER

Standard Equipment

➢ Double walled with PUF insulation
➢ Interior & Exterior SS 304. **Interior is provided with mirror finish**
➢ 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 tube light fitted in the centre of the 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 & email facility
➢ High speed Ethernet based communication
➢ All operations through a single 4" 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

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 equipments
➢ Mobile Alert System

SPECIFICATIONS

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

◆ Selection Guide

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Litre	(H*W*D)mm.	(H*W*D)mm.		mm	Equip.	Ship.
NLPS4SI	4	100	450 x 450 x 480	925 x 700 x 690	1	410 x 440	125	200
NLPS8SI	8	227	600 x 630 x 600	1410 x 790 x 1005	1	580 x 560	175	250
*NLPSH8SI	8	227	600 x 630 x 600	1410 x 790 x 1405	1	580 x 560	175	250

Features

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

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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
Interior & Exterior SS 304
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 & email facility
High speed Ethernet based communication
All operations through a single 4" Color Touch Screen
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.

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

Optional Accessories

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

SPECIFICATIONS
Temperature Range : -20°C to 50°C

◆ **Selection Guide**

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Litre	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
NLFT7MI	7	200	1000 x 560 x 360	1510 x 720 x 595	4	540 x 330	175	250
NLFT11MI	11	300	1100 x 560 x 490	1610 x 720 x 725	4	460 x 430	225	300
NLFT14MI	14	400	1100 x 560 x 650	1610 x 720 x 885	4	540 x 620	275	350
NLFT25MI	25	700	1200 x 800 x 730	2155 x 960 x 1025	4	780 x 700	300	375
NLFT34MI	34	1000	1200 x 1200 x 730	2155 x 1360 x 1025	8	490 x 700	325	425
NLFT54MI	54	1500	1200 x 1500 x 830	2155 x 1660 x 1125	8	640 x 800	350	450

Features

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

Cooling Chambers (Laboratory Refrigerators)

Standard Equipment

➢ Double walled with PUF insulation
➢ SS 304 Interior & Exterior either SS 304 or 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 operations driven through a single temperature controller with 2-line alpha-numerical LCD display & data logging capacity of upto 1000 readings
➢ High speed Ethernet based communication with Print facility
➢ High-quality PT-100 Temperature sensor
➢ Safety devices: Low temperature cut-off settable thermostats
➢ Audio/Visual alarms for deviations
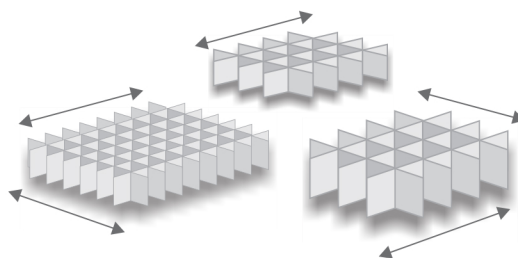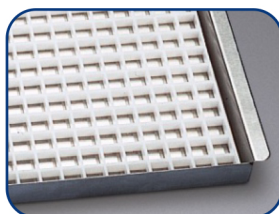➢ Complete with DQ, IQ, OQ, PQ & SOP & Maintenance Manual

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

Optional Accessories

➢ ICDAS - A Single Software installation for all Newtronic make equipments
➢ 4pt. Temperature Scanner
➢ Stand by Cooling System with auto switch over (430 litres & above)
➢ Door Access System (Biometric)
➢ Remote alarm system suitable for upto 4 nos. Newtronic make equipments
➢ Mobile Alert System
➢ **Grid-type partition for WS/RS sample arrangement**

SPECIFICATIONS

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

◆ Selection Guide

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Litre	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
NLCC7SI	7	200	800 x 500 x 500	1300 x 695 x 985	3	430 x 460	150	225
NLCC16SI	16	430	1200 x 600 x 600	1700 x 795 x 1105	4	530 x 560	250	325
NLCC26SI	26	735	1500 x 700 x 700	2050 x 895 x 1205	5	630 x 660	300	400
NLCC34SI	34	1000	1500 x 800 x 800	2050 x 995 x 1305	5	730 x 760	325	425
NLCC54SI	54	1500	1500 x 1600 x 600	2095 x 1730 x 1105	10	710 x 560	350	450
NLCC71SI	71	2000	1500 x 1600 x 800	2095 x 1730 x 1305	10	710 x 760	375	475

Features

Ethernet	Standby Cooling	Door Access	Alarms	Mobile Alert	Safety	Software	Documents

Cooling Chambers (Laboratory Refrigerators)

Standard Equipment

- Double walled with PUF insulation
- SS 304 Interior & Exterior either SS 304 or 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 operations driven through a single temperature controller with 2-line alpha-numerical LCD display & data logging capacity of upto 1000 readings
- High speed Ethernet based communication with Print facility
- 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.
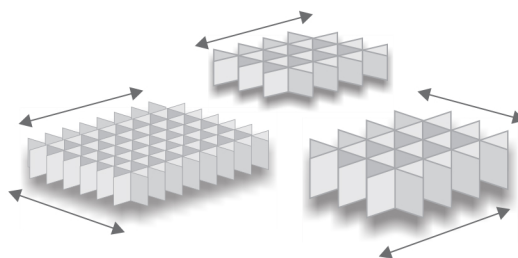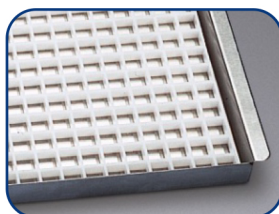
Optional Accessories

- ICDAS - A Single Software installation for all Newtronic make equipments
- 4pt. Temperature Scanner
- Stand by Cooling System with auto switch over (430 litres & above)
- Door Access System (Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System
- **Grid-type partition for WS/RS sample arrangement**

SPECIFICATIONS

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

◆ Selection Guide

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Litre	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
NLCC7SI	7	200	800 x 500 x 500	1300 x 695 x 985	3	430 x 460	150	225
NLCC16SI	16	430	1200 x 600 x 600	1700 x 795 x 1105	4	530 x 560	250	325
NLCC26SI	26	735	1500 x 700 x 700	2050 x 895 x 1205	5	630 x 660	300	400
NLCC34SI	34	1000	1500 x 800 x 800	2050 x 995 x 1305	5	730 x 760	325	425
NLCC54SI	54	1500	1500 x 1600 x 600	2095 x 1730 x 1105	10	710 x 560	350	450
NLCC71SI	71	2000	1500 x 1600 x 800	2095 x 1730 x 1305	10	710 x 760	375	475

Features

Ethernet	Standby Cooling	Door Access	Alarms	Mobile Alert	Safety	Software	Documents

Walk-In Cooling Chambers (Cold Rooms)

Standard Equipment

- Double walled with 80mm 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
- 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 PLC with data logging capacity of upto 1000 readings & email facility
- High speed Ethernet based communication
- All operations through a single 4" Color Touch Screen
- 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)
FIRE*safe*
Walk-In Cold room

SPECIFICATIONS

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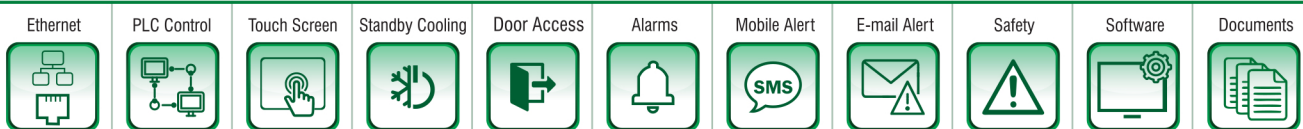- Temperature Uniformity : ± 1°C

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

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size
	CuFt	Litre	(H*W*D)mtr.	(H*W*D)mtr.		mm
NLWC204SI	204	5,712	2.00 x 1.36 x 2.10	2.16 x 1.52 x 2.26	24	870 x 300
NLWC244SI	244	6,854	2.40 x 1.36 x 2.10	2.56 x 1.52 x 2.26	32	870 x 300
NLWC300SI	300	8,400	2.00 x 2.00 x 2.10	2.16 x 2.16 x 2.26	24	870 x 600
NLWC360SI	360	10,080	2.40 x 2.00 x 2.10	2.56 x 2.16 x 2.26	32	870 x 600
NLWC428SI2	428	12,000	2.40 x 2.00 x 2.50	2.56 x 2.16 x 2.66	48	700x 600
NLWC552SI	552	15,480	2.40 x 2.50 x 2.58	2.56 x 2.66 x 2.74	48	700 x 800
NLWC660SI1	660	18,480	2.40 x 2.50 x 3.08	2.56 x 2.66 x 3.24	48	870 x 800
NLWC1071SI	1,071	30,000	2.40 x 2.50 x 5.00	2.56 x 2.66 x 5.16	80	870 x 800
NLWC1844SI	1,844	51,643	3.00 x 4.24 x 4.06	3.16 x 4.40 x 4.22	140	870 x 600
NLWC2866SI	2,866	80,253	3.00 x 4.82 x 5.55	3.16 x 4.98 x 5.71	180	870 x 800

*Custom Build Chambers also available | * Models with Exterior pre-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

Features

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

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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 & outer metal door with gasket & lock on the outside
- LED light (200 litres & 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 operations driven through a single temperature controller with 2-line alpha-numerical LCD display & data logging capacity of upto 1000 readings
- High speed Ethernet based communication with Print facility
- 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.

Optional Accessories

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

SPECIFICATIONS

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

◆ Selection Guide

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Litre	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
NLBI7SI	7	200	800 x 500 x 500	1300 x 695 x 985	3	430 x 460	150	225
NLBI16SI	16	430	1200 x 600 x 600	1700 x 795 x 1105	4	530 x 560	250	325
NLBI26SI	26	735	1500 x 700 x 700	2050 x 895 x 1205	5	630 x 660	300	400
NLBI34SI	34	1000	1500 x 800 x 800	2050 x 995 x 1305	5	730 x 760	325	425
NLBI54SI	54	1500	1500 x 1600 x 600	2095 x 1730 x 1105	10	710 x 560	350	450
NLBI71SI	71	2000	1500 x 1600 x 800	2095 x 1730 x 1305	10	710 x 760	375	475

Features

Ethernet	Standby Cooling	Door Access	Alarms	Mobile Alert	Safety	Software	Documents

Walk-In Incubators

Standard Equipment

- ➢ Double walled with 80mm 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
- ➢ 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 PLC with data logging capacity of upto 1000 readings & email facility
- ➢ High speed Ethernet based communication
- ➢ All operations through a single 4" Color Touch Screen
- ➢ 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

Exterior & Interior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size
	CuFt	Litre	(H*W*D)mtr.	(H*W*D)mtr.		mm
NLWI204SI	204	5,712	2.00 x 1.36 x 2.10	2.16 x 1.52 x 2.26	24	870 x 300
NLWI244SI	244	6,854	2.40 x 1.36 x 2.10	2.56 x 1.52 x 2.26	32	870 x 300
NLWI300SI	300	8,400	2.00 x 2.00 x 2.10	2.16 x 2.16 x 2.26	24	870 x 600
NLWI360SI1	360	10,080	2.40 x 2.00 x 2.10	2.56 x 2.16 x 2.26	48	870 x 600
NLWI428SI	428	12,000	2.40 x 2.00 x 2.50	2.56 x 2.16 x 2.66	48	700 x 600
NLWI552SI	552	15,480	2.40 x 2.50 x 2.58	2.56 x 2.66 x 3.74	48	700 x 800
NLWI660SI	660	18,480	2.40 x 2.50 x 3.08	2.56 x 2.66 x 3.24	48	870 x 800
NLWI1071SI	1,071	30,000	2.40 x 2.50 x 5.00	2.56 x 2.66 x 5.16	80	870 x 800
NLWI1844SI	1,844	51,643	3.00 x 4.24 x 4.06	3.16 x 4.40 x 4.22	140	870 x 600
NLWI2866SI	2,866	80,253	3.00 x 4.82 x 5.55	3.16 x 4.98 x 5.71	180	870 x 800

*Custom Build Chambers also available | * Models with Exterior pre-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

Features

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

Laboratory (Bacteriological) 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 & outer metal door with gasket & lock on the outside
- ➢ LED light (200 litres & above)
- ➢ Forced air circulation for uniform temperature
- ➢ PU wheels for easy movement
- ➢ U shaped SS tubular heaters
- ➢ Complete operations driven through a single temperature controller with 2-line alpha-numerical LCD display & data logging capacity of upto 1000 readings
- ➢ High speed Ethernet based communication with Print facility
- ➢ 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.

Optional Accessories

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

SPECIFICATIONS

- Temperature Range : (Ambient+5)°C to 60°C
- Temperature Accuracy : ± 0.5°C
- Temperature Uniformity : ± 1°C

◆ Selection Guide

Interior & Exterior are of Stainless Steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Litre	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
NLLI7SI	7	200	800 x 500 x 500	1300 x 695 x 985	3	430 x 460	150	225
NLLI16SI	16	430	1200 x 600 x 600	1700 x 795 x 1105	4	530 x 560	250	325
NLLI26SI	26	735	1500 x 700 x 700	2050 x 895 x 1205	5	630 x 660	300	400
NLLI34SI	34	1000	1500 x 800 x 800	2050 x 995 x 1305	5	730 x 760	325	425
NLLI54SI	54	1500	1500 x 1600 x 600	2095 x 1730 x 1105	10	710 x 560	350	450
NLLI71SI	71	2000	1500 x 1600 x 800	2095 x 1730 x 1305	10	710 x 760	375	475

Features

Ethernet	Door Access	Alarms	Mobile Alert	Safety	Software	Documents

Laboratory Ovens

Standard Equipment

- Double walled with mineral wool insulation.
- Stainless Steel Interior & Exterior either SS or Powder Coated
- Mesh type Stainless Steel trays
- Full length inner glass door with gasket and lock on the outside
- Forced air circulation for uniform temperature
- Ring type SS tubular heater
- Micro processor based auto tune temperature controller with 2 line LED display
- 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.

Optional Accessories

- ICDAS - A Single Software installation for all Newtronic make equipments
- DSU 52: Additional hardware for data storage, software connectivity & print facility

SPECIFICATIONS

- Temperature Range   : 50°C to 280°C

Vacuum Ovens

Standard Equipment

- 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 and temperature controller
- The interior and the exterior of the chamber is made of stainless steel (SS 304)
- 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
- Using plate heating to ensure rapid & equal heating
- Audio alarm for temperature deviations
- Complete with DQ, IQ, OQ, PQ ,SOP & Maintenance Manual

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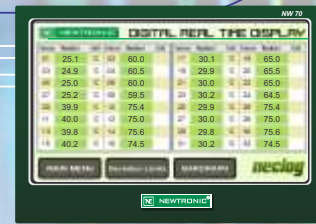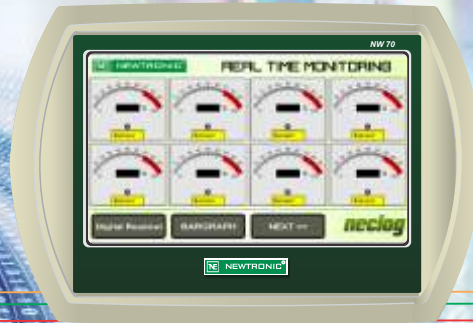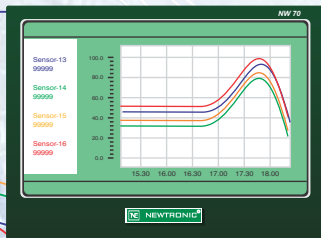
Optional Accessories

- ICDAS - A Single Software installation for all Newtronic make equipments
- DSU 52: Additional hardware for data storage, software connectivity & print facility

SPECIFICATIONS

- Temperature Range   : 40°C to 200°C

Features

| Alarms | Safety | Software | Documents | DSU 52 |

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Web-based Data Logging & Real-time Monitoring System

Paperless recorder

^{0}C psi % RH CO$_2$

NECLOG provides variety of physical parameter to be logged, reported and alarm notification. Temperature, Humidity, Differential Pressure, CO$_2$ etc. parameters can be monitored and logged on long term basis.

Neclog is one of the unique solution with many advantages as easy-to-use, cost effective, high-accuracy solution for mapping critical and FDA-regulated environments from stability chambers to freezers and warehouses.

Faster Set-up | Lower Cost | Better Results

neclog >>

- Alarms
- Mobile
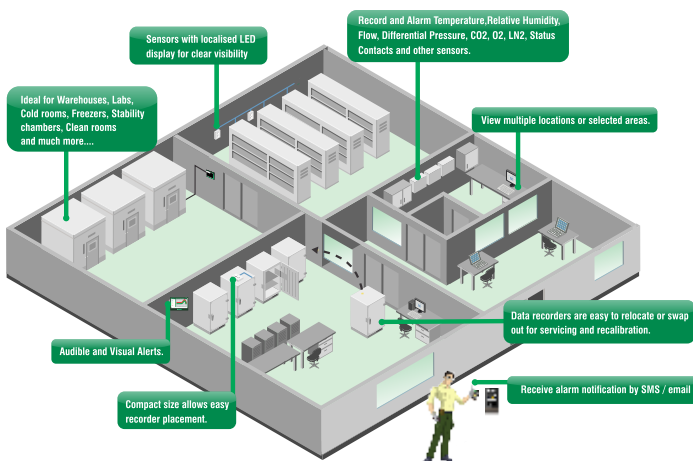- E-mail

- Sensors with localised LED display for clear visibility
- Record and Alarm Temperature,Relative Humidity, Flow, Differential Pressure, CO2, O2, LN2, Status Contacts and other sensors.
- Ideal for Warehouses, Labs, Cold rooms, Freezers, Stability chambers, Clean rooms and much more....
- View multiple locations or selected areas.
- Audible and Visual Alerts.
- Data recorders are easy to relocate or swap out for servicing and recalibration.
- Compact size allows easy recorder placement.
- Receive alarm notification by SMS / email

Precise monitoring with diverse application

Fully compliant & easier to use

- Large Memory
- Simple configuration with multiple sensors on serial link
- 24/7 alarms for immediate notification of out-of-specification
- Helps you to meet accreditations & all major regulatory requirements
- Web-based software 21 CFR Part 11 ready
- Versatile PC linkup via LAN, USB
- System-wide traceability & secured data transfer
- Multiple parameters

Specifications:

- Digital sensor
- Accuracy of humidity and temperature
- Dual temperature
- Differential pressure and temperature
- Pressure and temperature
- Co$_2$ and temperature

- Mapping & Validation
- Plug & Play features
- Accurate temperature & humidity sensors
- Versatile PC linkup via LAN & USB
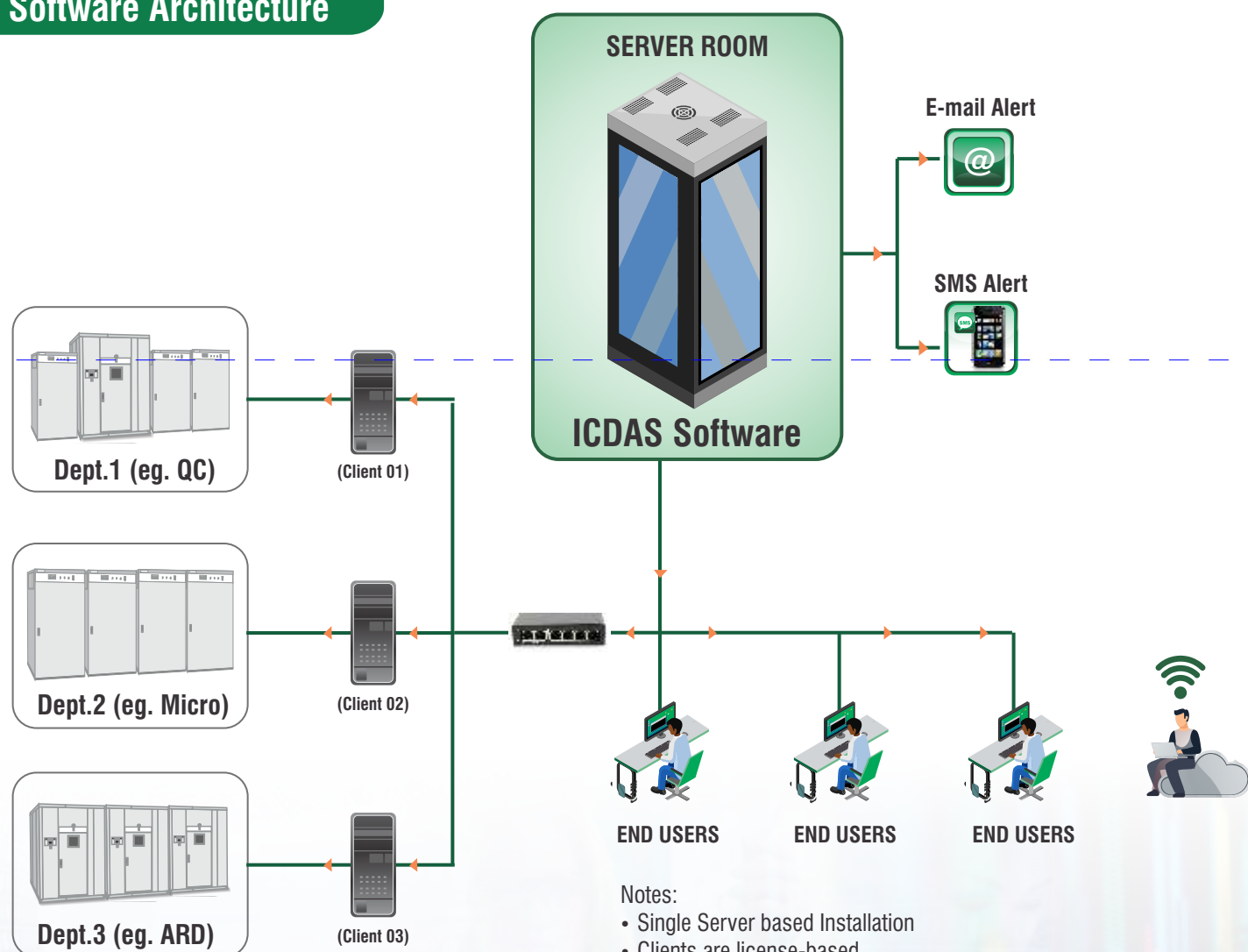- Online and offline data interface
- Browser based Software application

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Web-based Software (ICDAS)

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.3 (eg. ARD)   (Client 03)

END USERS   END USERS   END USERS

Notes:
- Single Server based Installation
- Clients are license-based
- 1 client per dept. for upto 15 equipments
- ICDAS lite version available (in lieu of server based)

Ever-ready for surprise audits

Seamless Configuration

Go Paperless

Safe & Secure Data

Access Control

Restricted Access Rights & Privileges

Date & Timestamp Audit Trails

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ALCOA+

Newtronic ICDAS

Contemporaneous
Legible
Original
Attributable
Accurate
Complete
Available
Consistent
Enduring
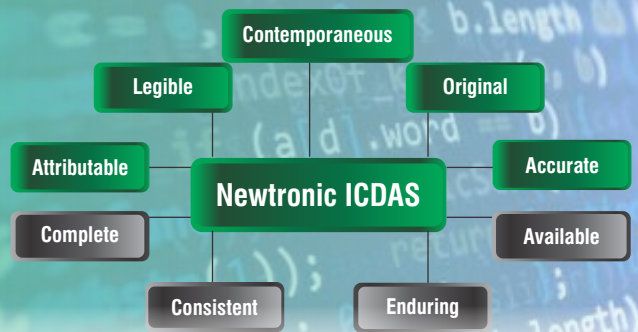
Instantly connect and control your chambers from anywhere without installing software.

Key Features

Installation
- Server-based; Web-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

Internationally proven innovative product range

NLEPL/CC/0919/2.0

Newtronic Service centers:

Domestic:		International:		
Ahmedabad	Hyderabad / Vizag	Australia	Nepal	Uganda
Baddi	Indore	Bangladesh	New Zealand	Ethiopia
Bangalore	Kolkata / Sikkim	China	Phillippines	Russia
Chennai	Mumbai	Egypt	Singapore	UK
Delhi	Pune	Indonesia	Thailand	USA
Goa		Vietnam	Turkey	
		Malaysia	Algeria	
		Mexico	Nigeria	
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* Newtronic reserve the right to change product specifications without prior notice

NEWTRONIC LIFECARE EQUIPMENT PVT. LTD.
ISO 9001:2015 | ISO 13485:2016 | NABL ISO/IEC 17025:2005

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