Innovation | Technology | Precision

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

Head Office - Mumbai

State of the Art plant - Umbergaon

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.... 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)

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

Walk-In Humidity (Stability) Chambers

ecotronic System
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

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

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

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

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