

Innovation | Technology | Precision



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

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.
NLHC7SI	7	200	800 x 500 x 500	1350 x 630 x 945	3	430 x 460	150	225
NLHC11SI	11	300	1200 x 500 x 500	1795 x 630 x 945	4	430 x 460	200	275
NLHC16SI	16	430	1200 x 600 x 600	1795 x 730 x 1095	4	530 x 560	250	325
NLHC21SI	21	600	1200 x 700 x 700	1795 x 830 x 1195	4	630 x 660	275	350
NLHC28SI	28	800	1200 x 800 x 800	1795 x 930 x 1295	4	730 x 760	300	400
NLHC34SI	34	1,000	1500 x 800 x 800	2095 x 930 x 1295	5	730 x 760	325	425
NLHC54SI	54	1,500	1500 x 1600 x 600	2095 x 1760 x 1095	10	710 x 560	350	450
NLHC71SI	71	2,000	1500 x 1600 x 800	2095 x 1760 x 1295	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

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/09/19/2.0

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



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