Innovation | Technology | Precision





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



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.

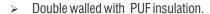
Welcome to the world of NEWTRONIC – the name you can trust

- 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)

HUMIDITY CHAMBER

Humidity (Stability) Chambers





- 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

: 20°C to 60°C Temperature Range 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 | 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)









SMS

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





- 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

- DQ, IQ, OQ, PQ

Documentation & Training

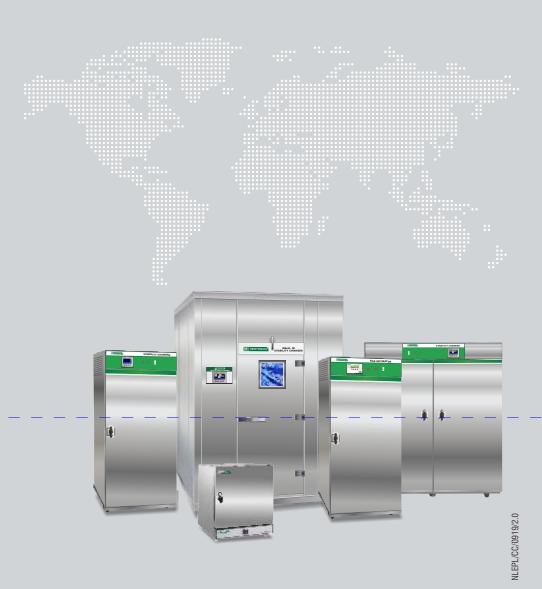
- DQ, IQ, OQ, PQ & SOP & Maintenance Manuals
- Calibration Certificates
- GA & Electrical Drawings
- Material Test Certificates
- Training to end-users



Audit Support

- Quick Resolution to NCs
- Justification to Excursions
- On-site support
- Remote support via Team Viewer
- Documentation

Internationally proven innovative product range



Newtronic Service centers:

| Domestic: | | International | International: | | | |
|--|---|---|---|---|--|--|
| Ahmedabad Baddi Bangalore Chennai Delhi Goa | Hyderabad / Vizag Indore Kolkata / Sikkim Mumbai Pune | Australia Bangladesh China Egypt Indonesia Vietnam Malaysia Mexico | Nepal New Zealand Phillippines Singapore Thailand Turkey Algeria Nigeria | Uganda Ethiopia Russia UK USA | | |
| service@newt | ronic.in | service.expor | service.exports@newtronic.in | | | |

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

The name you can trust

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

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Plant

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