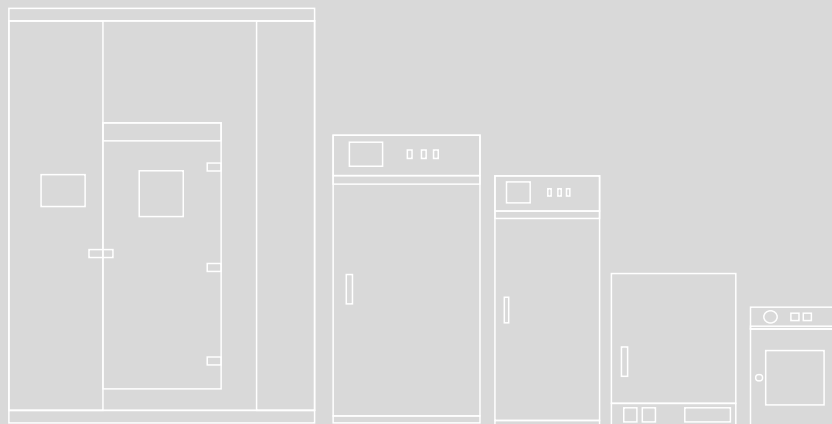




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Innovation | Technology | Precision



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

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
- Fluorescent light (324 liters & above)
- 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
- 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 German Make temperature humidity sensor with 4-20mA output
- Safety devices: Low & high temperature cut-off settable thermostats & high humidity cut-off device
- Audio/Visual alarms for deviations
- Complete with IQ, OQ, PQ & Operations & 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 :  $\pm 0.2^{\circ}\text{C}$
- Temperature Uniformity :  $\pm 1^{\circ}\text{C}$
- Humidity Range : 40% RH to 95% RH
- Humidity Accuracy :  $\pm 2\%$  RH
- Humidity Uniformity :  $\pm 3\%$  RH

## Optional Accessories












- ICDAS - A Common Software suitable for 20 nos. Newtronic make equipments
- 4 pt. Temperature & Humidity Scanner
- Stand by Cooling System with auto switch over (600 liter & above)
- Door Access system
- Mobile Alert system
- Remote alarm system suitable for 4 nos. Newtronic make equipments

## ◆ Selection Guide of Humidity Chambers

Exterior & Interior is of stainless steel (SS 304)	Capacity		Internal Size (H*W*D)mm	External Size (H*W*D)mm	Trays Qty.	Tray size mm	Approx. Weight kg	
	CuFt	Liter					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	430x 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	1000	1500 x 800 x 800	2095 x 930 x 1295	5	730 x 760	325	425
NLHC54SI	54	1500	1500 x 1600 x 600	2095 x 1760 x 1095	10	710 x 560	350	450
NLHC71SI	71	2000	1500 x 1600 x 800	2095 x 1760 x 1295	10	710 x 760	375	475

\* Models with Exterior MS powder coating & Interior stainless steel (304) will be available on request.

## Features

Ethernet 	PLC Control 	Touch Screen 	Standby Cooling  *Optional	Door Access  *Optional	Alarms 	Mobile Alert  *Optional	E-mail Alert 	Safety 	Software  *Optional	Documents 
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Temperature Range: 20°C to 60°C  
Humidity Range: 40% RH to 95% RH

# Walk-In Humidity (Stability) Chambers

## Standard Equipment

- Double walled with 80mm PUF insulated modular panels with easy on-site assembly
- SS 304 Interior & Exterior either SS 304 or Powder Coated G. I.
- Stainless Steel Trays
- Observation window - 300 x 300 mm
- Illuminated working area
- U-shaped SS tubular heaters
- Flooring of Linoleum carpet
- Forced air circulation for uniform temperature
- 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
- 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
- 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 German Make temperature humidity sensor with 4-20mA output
- Safety devices: Low & High temperature cut-off settable thermostats & high humidity cut-off device
- Audio/Visual alarms for deviations
- Complete with IQ, OQ, PQ & Operations & 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 :  $\pm 0.2^{\circ}\text{C}$
- Temperature Uniformity :  $\pm 1^{\circ}\text{C}$
- Humidity Range : 40% RH to 95% RH
- Humidity Accuracy :  $\pm 2\% \text{ RH}$
- Humidity Uniformity :  $\pm 3\% \text{ RH}$

## Optional Accessories












- ICDAS - A Common Software suitable for 20 nos. Newtronic make equipments
- 8pt. Temperature & Humidity Scanners
- Stand by Cooling System with auto switch over
- Door Access system
- Mobile Alert system
- Remote alarm system suitable for 4 nos. Newtronic make equipments

## ♦ Selection Guide of Walk - In Humidity Chambers

Exterior & Interior is of stainless steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size
	CuFt	Liter	(H*W*D)mtr.	(H*W*D)mtr.		mm
NLWH190SI	190	5400	2.00 x 1.36 x 2.00	2.16 x 1.52 x 2.16	24	870 x 300
NLWH230SI	230	6400	2.40 x 1.36 x 2.00	2.56 x 1.52 x 2.16	32	870 x 300
NLWH280SI	280	8000	2.00 x 2.00 x 2.00	2.16 x 2.16 x 2.16	24	870 x 600
NLWH340SI	340	9600	2.40 x 2.00 x 2.00	2.56 x 2.16 x 2.16	32	870 x 600
NLWH428SI	428	12000	2.40 x 2.00 x 2.50	2.56 x 2.16 x 2.66	48	725 x 600
NLWH530SI	530	15000	2.40 x 2.50 x 2.50	2.56 x 2.66 x 2.66	48	725 x 800
NLWH640SI	640	18000	2.40 x 2.50 x 3.00	2.56 x 2.66 x 3.16	48	900 x 800
NLWH1070SI	1070	30000	2.40 x 2.50 x 5.00	2.56 x 2.66 x 5.16	80	920 x 800
NLWH1785SI	1785	50000	3.00 x 4.20 x 4.00	3.16 x 4.36 x 4.16	140	870 x 600
NLWH2857SI	2857	80000	3.00 x 4.80 x 5.56	3.16 x 4.96 x 5.72	180	870 x 600

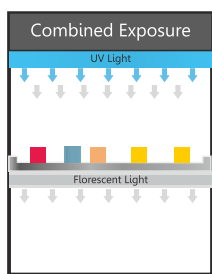
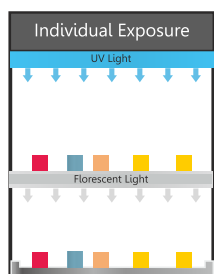
\*Custom Build Chambers also available | \* Models with Exterior powder coated GI sheet & Interior stainless steel (304) will be available on request.  
Standard Inner Heights: 2.0, 2.4, 3.0 Mt | Standard Inner Width: 1.36, 2.0, 2.5, 4.0 Mt | Standard Inner Depths: 2.0, 3.0, 4.0, 5.0 Mt

## Features

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

Temperature Range: 10°C to 40°C

# Photo 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
- 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 IQ, OQ, PQ & Operations & Maintenance Manual

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

## Optional Accessories

- ICDAS - A Common Software suitable for 20 nos. Newtronic make equipments
- Calibrated LUX and UV meters
- Photostability Chambers with Humidity control
- Door Access system
- Mobile Alert system
- Remote alarm system suitable for 4 nos. Newtronic make equipments

## SPECIFICATIONS

- Temperature Range : 10°C to 40°C
- Temperature Accuracy :  $\pm 0.5^\circ\text{C}$
- Temperature Uniformity :  $\pm 1^\circ\text{C}$

**Small, Efficient, Sufficient**

## ◆ Selecting Guide of Photo Stability Chambers

Exterior & Interior is of stainless steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Liter	(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

\* Models with Exterior MS powder coating & Interior stainless steel (304) will be available on request.

## Features

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



Temperature Range: -20°C to 60°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))



## 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
- Safety devices: Low & high temperature cut-off settable thermostats
- Audio/Visual alarms for deviations
- Complete with IQ, OQ, PQ & Operations & 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 can be set in cyclic mode. eg. -20° C set for 12 hrs or (0 to 999) hrs. And then temp. goes to + 60°C and maintained for 12 hrs or (0 to 999) hrs. No of such cycles of these temperatures can be programmed

## Optional Accessories

- ICDAS - A Common Software suitable for 20 nos. Newtronic make equipments
- Door Access system
- Mobile Alert system
- Remote alarm system suitable for 4 nos. Newtronic make equipments

## SPECIFICATIONS

- Temperature Range : -20°C to 60°C

## ◆ Selection Guide of Thaw Chambers

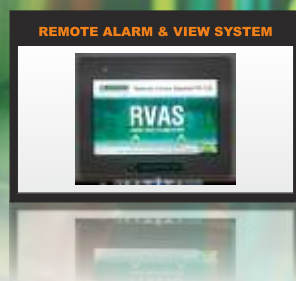
Exterior & Interior is of stainless steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray size	Approx. Weight kg	
	CuFt	Liter	(H*W*D)mm	(H*W*D)mm		mm	Equip.	Ship.
NLFT7SI	7	200	800 x 500 x 500	1350 x 630 x 945	3	430 x 460	150	225
NLFT11SI	11	300	1200 x 500 x 500	1795 x 630 x 945	4	430 x 460	200	275
NLFT16SI	16	430	1200 x 600 x 600	1795 x 730 x 1095	4	560 x 560	250	325
NLFT21SI	21	600	1200 x 700 x 700	1795 x 830 x 1195	4	660 x 660	275	350
NLFT28SI	28	800	1200 x 800 x 800	1795 x 930 x 1295	4	760 x 760	300	400
NLFT34SI	34	1000	1500 x 800 x 800	2095 x 930 x 1295	5	760 x 800	325	425

\* Models with Exterior MS powder coating & Interior stainless steel (304) will be available on request.

## Features

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

# Introducing Remote View & Alarm System(RVAS)



## RVAS

Remote View & Alarm System

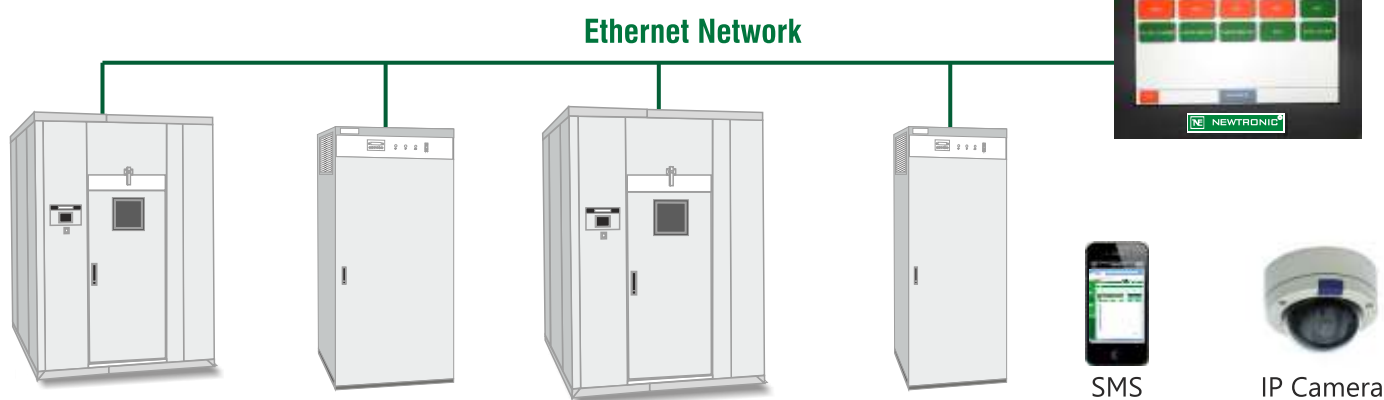
Take Remote Monitoring to an in-depth level of information-sharing with NEWTRONIC's Remote View and Alarm System (RVAS).

### RVAS Features:

1. View & Acknowledge real-time T/RH readings of EACH sensor
2. View status of each I/O Components (humidifier, heater, compressor, etc)
3. View status of Utilities (Mains Supply, Door, Water Level)
4. Generate SMS for critical alarms. SMS alerts to specific mobile nos. based on equipment ownership
5. Get real-time video feeds from IP-cameras



### Remote View & Alarm System



### Equipments on Ethernet Network

### 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 Status



SMS Alerts



Alerts 24/7



Alert Groups



Multiple Interfaces



IP Camera

# Touching tomorrow....



Constant focus on technology & innovation

Leading in diversity

Strong culture of performance

Believing in trust & teamwork

Ambitious long term goals

Sustainable Strategy

NL/CC/PH/0514/1.2

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