



High Specification Plant Growth Chambers & Walk-in-Chambers



NEWTRONIC LIFECARE EQUIPMENT PVT. LTD.

www.newtronic.in

Other Products: Humidity (Stability) Chambers | Walk-in Cooling Chambers (Cold Room) | Deep Freezers
Plasma Freezers | Ultra Low Temperature Freezers | Incubators



Innovation | Technology | Precision

... our key to excellence

Welcome to the world of

NEWTRONIC - the name you can trust

- Established in 1980
- Manufacturing facility of over 60,000 sq.ft.
- Export to more than 35 countries worldwide
- Globally available superior quality components
- Online service support
- Installation of more than 10,000 Chambers
- Installed large-sized chamber of up to 1 Million Liter capacity
- Innovative & reliable product range

Trust our Innovation...

At Newtronic, we always strive to deliver the most innovative products, superior With Plant Growth technology, precise functionality and environmental friendly solutions. In continuation to our commitment, Plant Growth Chambers are our new innovation, where you experience uncompromising performance guarantee through stringent temperature, light and humidity control. Our engineering team can construct an exact growth chamber that meets or exceeds your research; depending upon requirement we can provide you small plant growth chambers or large walk-in type plant growth rooms. These units achieve reliable interaction between heat or cold, humidity and light; also feature an extended variety of temperatures and lighting patterns that are essential for plant growth research.

Utilizing years of successful experience, these units are acclaimed by various industry experts. Whether research labs, agricultural labs, education, universities and institutes, our products are working perfectly and delivering precise results.

...Touching tomorrow

Features | Functions | Flexibility



Plant Growth
Tissue Culture
Arabidopsis
Germination
Incubation
Entomology

Key Features

- Excellent temperature stability
- High quality LED lights
- Interlocked insulated panels for Walk-In Chambers
- High & low limit temperature protection
- Color touch screen display
- Uniform air flow inside chamber
- User programmable alarm settings
- Unparalleled light efficiency
- Automatic PLC controls
- Stainless steel inner construction
- Adjustable shelving arrangement

Climatic Control

- Air based, CFC free, mechanical refrigeration by sealed condenser group
- Heating technology with stainless steel electric heaters
- Humidification by ultrasonic generator with automatic water level control

Key Features

- Dynamic airflow through blowers
- Forced airflow in horizontal and downward direction
- Horizontal airflow across the shelves to assure uniformity to all growth area

Research Protection and Security

- Independent thermostats for maximum and minimum temperature limits
- Automatic cut-off function, in case of excessive heating or cooling
- Configurable maximum and minimum temperature and humidity limits
- Visual and audible alarms for temperature and humidity deviations

PLC Controller

- Controller exclusively developed by Newtronic
- Controls every environmental variable available (Temperature, Humidity, Lights)
- Easy to use touch-screen interface
- Password protection of the controller functions
- Configurable high and low temperature and humidity alarms and automatic notifications
- Recording of all alarms
- Non-volatile memory, allowing the automatic restart of previously defined power failure, without losing data
- Real-time monitoring of all the functions and active components of the equipment, allowing for a fast and accurate diagnostic in case of malfunction

Precise Control with Diverse application

Plant Growth Chambers



Temperature Range: 10°C - 35°C Lights On
5°C - 35°C Lights Off

Humidity Range: 40%Rh to 90%Rh Lights On
40%Rh to 90%Rh Lights Off

Complete Controlled Environment....

Standard Equipments

- Doubled walled with PUF insulation
- SS 304 Interior & exterior either SS 304 or Mild Steel
- Adjustable Stainless steel trays. Growth height can be adjusted by adding or removing the trays
- Full-length inner glass door & metal door with gasket & lock on the outside.
- LED lights, Day/night programmable cycle
- Forced air circulation for Uniform temperature
- PU wheels for easy movements
- U shaped SS tubular heater
- Steam based Humidification system with automatic water level control
- CFC free cooling system consists of hermetically sealed compressor coupled with evaporation coil and condenser.
- Complete operation driven through PLC with data logging capacity of up to 1000 readings
- Printer interface facility
- All operations through a 4" color touch screen display
- High quality Euporean make Temperature & Humidity combo sensor with 4-20mA output.
- Safety device: Low & High temperature cut-off settable thermostats high humidity cut off device
- Audio- visual alarms for deviations
- Operation & Maintenance Manual

Power Supply: 230 Volts, 50 Hz mains supply. Also available with 60 Hz cycle.

Optional Accessories

- Co₂ control 0-1000 ppm.

Plant Growth Selection Guide (Model with Interior & Exterior made of Stainless Steel)

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size (W*D) mm	Approx. Weight (Kg)	
	CuFt.	Liter					Equip.	Ship.
NLPG7SI	7	200	800 X 500 X 500	1295 X 640 X 990	3	430 X 460	150	225
NLPG16SI	16	430	1200 X 600 X 600	1695 X 740 X 1110	4	530 X 560	250	325
NLPG26SI	26	735	1500 X 700 X 700	2050 X 840 X 1210	5	630 X 660	275	350
NLPG34SI	34	1000	1500 X 800 X 800	2050 X 940 X 1310	5	730 X 760	350	425
NLPG54SI	54	1500	1500 X 1600 X 600	2050 X 1740 X 1125	10	695 X 560	350	450
NLPG71SI	71	2000	1500 X 1600 X 800	2050 X 1740 X 1325	10	695 X 760	375	475

* Models with exterior of mild Steel & interior of SS 304 will be available on request.

Features

PLC Control



Touch Screen



Alarms



Safety



Walk-in Plant Growth Chambers



Temperature Range: 0°C - 60°C Lights Off

Humidity Range: 40%Rh to 90%Rh Lights On
40%Rh to 90%Rh Lights Off

Assured Uncompromising Performance...

Standard Equipments

- Doubled walled with 80 mm PUF insulated modular panels which can be easily assembled at site
- SS 304 Interior & Exterior made of either pre-coated GI sheet or SS 304
- Stainless steel trays
- Observation window - 300mm x 300mm
- LED lights, Day/night programmable cycle
- Light Intensity Range (LUX) - upto 20,000 LUX
- U shaped SS tubular heater
- Flooring of linoleum carpet
- Forced air circulation for Uniform temperature
- Steam Based Humidification system with automatic water level control
- CFC free cooling system consists of hermetically sealed compressor coupled with evaporation coil and condenser.
- System is made up of Condenser unit in well-ventilated area to avoid throw of hot air in the room
- Complete operation driven through PLC with data logging capacity of up to 1000 readings
- Printer interface facility
- All operations through a 7" color touch screen display
- High quality European make split type temperature & humidity combo sensor with 4-20mA output..
- Safety device: Low & High temperature cut-off settable thermostats & high humidity cut off device
- Audio/visual alarms for deviations
- Operation & Maintenance Manual

Power Supply: 230 / 440 Volts, 50 Hz mains supply. Also available with 60 Hz cycle.

Optional Accessories





- CO₂ control 0-1000 ppm.

Walk-In-Plant Growth Selection Guide (Model exterior made of pre coated GI sheet with Interior made of Stainless Steel)

Exterior & Interior are of stainless steel (SS 304)	Capacity		Internal Size	External Size	Trays Qty.	Tray Size.
	CuFt	Litre	(H*W*D)mm	(H*W*D)mm		
NLWH184SI	184	5160	2000 x 1500 x 1720	2120 x 1620 x 1840	8	650 x 350
NLWH278SI	278	7790	2000 x 1900 x 2050	2120 x 2020 x 2170	8	800 x 550
NLWH300SI	300	8400	2000 X 2000 X 2100	2160 X 2160 X 2100	24	870 X 600
NLWH360SI	360	10080	2400 X 2000 X 2100	2560 X 2160 X 2260	32	870 X 600
NLWH428SI	428	12000	2400 X 2000 X 2500	2560 X 2160 X 2660	48	700 X 600
NLWH552SI	552	15480	2400 X 2500 X 2580	2560 X 2660 X 2740	48	700 X 800
NLWH660SI	660	18480	2400 X 2660 X 3240	2560 X 2660 X 3240	48	870 X 800

* Models with exterior of pre-coated GI & interior of SS 304 will be available on request.

Features

<p>PLC Control</p> 	<p>Touch Screen</p> 	<p>Alarms</p> 	<p>Safety</p> 
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create your own climate ...

Newtronic Service Centers:

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



The name you can trust

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