



The name you can trust

Innovation | Technology | Precision

Introducing Cooling Without Refrigerated Compressor
With

PELTIER TECHNOLOGY



Humidity (Stability) Chambers
BOD Incubators (Cool Incubators) | Dual BOD Incubators

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

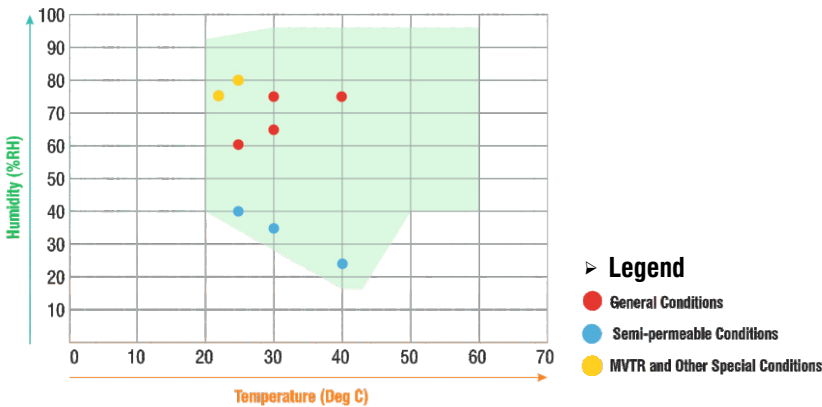
Stability Chambers



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
- Cooling achieved by a thermoelectric module based on the principles of Peltier Technology**
- Complete Operations driven through PLC with data logging capacity of upto 1000 readings
- High speed Ethernet based communication
- All operations through a single 7" 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
- 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 : $\pm 0.5^{\circ}\text{C}$
- 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

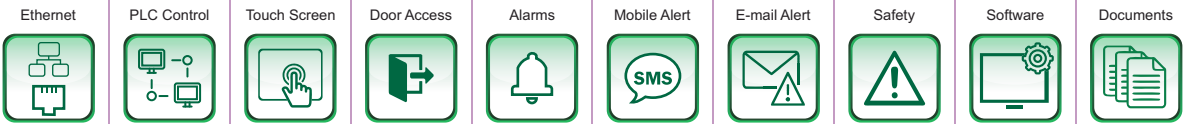
- ICDAS - A Single Software installation for all Newtronic make equipments
- 4 pt. Temperature & Humidity Scanner
- Door Access system (Numeric or Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System

Selection Guide

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.
NLHC16MIP	16	430	1200 X 600 X 600	1715 x 760 x 1155	4	530 X 560	250	325
NLHC26MIP	26	735	1500 X 700 X 700	2070 x 860 x 1255	5	630 X 660	275	350
NLHC34MIP	34	1000	1500 X 800 X 800	2070 x 960 x 1355	5	730 X 760	350	425
NLHC54MIP	54	1500	1500 X 1600 X 600	2070 x 1760 x 1155	10	695 X 560	350	450
NLHC71MIP	71	2000	1500 X 1600 X 800	2070 x 1760 x 1355	10	695 X 760	375	475

* Newtronic reserve the rights to change the product specifications without prior notice.

Features



Temperature Range: 15°C to 60°C

BOD Incubators (Cool Incubators)

Standard Equipment

- 140.718mm Double walled with PUF insulation
- SS 304 Interior & Exterior either SS 304 or Mild Steel
- Stainless Steel trays
- Full length inner glass door with magnetic gaskets
- LED light for better illumination & observation (200 liters & above)
- Forced air circulation for uniform temperature
- PU wheels for easy movement
- U shaped SS tubular heaters
- Cooling achieved by a thermoelectric module based on the principles of Peltier Technology**
- Complete operation are driven through IOT-enabled Controller with data logging capacity of upto 1000 readings
- High speed Ethernet based communication
- All operations through a single 7" Colour Touch Screen Display
- High-quality PT-100 Temperature sensor
- Safety devices: Low & high temperature cut-off settable thermostats
- 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 : 15°C to 60°C
- Temperature Accuracy : $\pm 0.5^{\circ}\text{C}$
- Temperature Uniformity : $\pm 1^{\circ}\text{C}$

Optional Accessories

- ICDAS -A Single Software installation for all Newtronic make equipments
- 4 pt. Temperature Scanner
- Door Access system (Numeric or Biometric)
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System

Selection Guide

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.
NLBI7MIP	7	200	800 X 500 X 500	1315 x 660 x 965	3	430 X 460	150	225
NLBI16MIP	16	430	1200 X 600 X 600	1715 x 760 x 1105	4	530 X 560	250	325
NLBI26MIP	26	735	1500 X 700 X 700	2070 x 860 x 1205	5	630 X 660	275	350
NLBI34MIP	34	1000	1500 X 800 X 800	2070 x 960 x 1305	5	730 X 760	350	425
NLBI54MIP	54	1500	1500 X 1600 X 600	2070 x 1760 x 1105	10	695 X 560	350	450
NLBI71MIP	71	2000	1500 X 1600 X 800	2070 x 1760 x 1305	10	695 X 760	375	475

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Features

Ethernet

Documents

Door Access

Alarms

Mobile Alert

Safety

Software

Upper Temperature : 15°C to 60°C
Lower Temperature : 15°C to 60°C

Dual Incubators



Standard Equipment

- Double walled with PUF insulation
- SS 304 Interior & Exterior either SS 304 or Mild Steel
- Two separate Compartments operating at different temperature values**
- Stainless Steel trays
- Full length inner glass door & outer metal door with gasket & lock on the outside
- Forced air circulation for uniform temperature
- PU wheels for easy movement
- U shaped SS tubular heaters
- Cooling achieved by a thermoelectric module based on the principles of Peltier Technology**
- Complete operations driven through IOT-enabled Controller with data logging capacity of upto 1000 reading
- High speed Ethernet based communication
- All operations through a single 7" Color Touch Screen Display
- High-quality PT-100 Temperature sensor
- Safety devices: Low & High temperature cut-off settable thermostats
- 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 : 15°C to 60°C
- Temperature Accuracy : $\pm 0.5^{\circ}\text{C}$
- Temperature Uniformity : $\pm 1^{\circ}\text{C}$

Optional Accessories

- ICDAS -A Single Software installation for all Newtronic make equipments
- Remote alarm system suitable for upto 4 nos. Newtronic make equipments
- Mobile Alert System

◆ Selection Guide

Model	Capacity		Internal Size (H*W*D) mm	External Size (H*W*D) mm	Trays Qty.	Trays Size	Approx. Weight (Kg)	
	CuFt.	Liter				(W*D) mm	Equip.	Ship.
NLDC14MIP	Upper - 7	Upper - 200	Upper - 690 X 600 X 500	2050 X 740 X 985	Upper - 2	530 X 460	300	375
	Lower - 7	Lower - 200	Lower - 690 X 600 X 500		Lower - 2			
NLDC28MIP	Upper - 14	Upper - 400	Upper - 690 X 700 X 800	2050 X 840 X 1285	Upper - 2	630 X 760	375	450
	Lower - 14	Lower - 400	Lower - 690 X 700 X 800		Lower - 2			

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Features	Ethernet	Documents	Alarms	Mobile Alert	Safety	Software

THE PELTIER TECHNOLOGY

Thermocouple Working Principle

The working principle of a thermocouple is based on the Seebeck, Peltier, and Thomson effects.

Peltier Effect

The Peltier effect is the absorption or release of heat when an electric current passes through a junction of two different conductors.

Peltier Cooling, also known as Thermoelectric Cooling, has many advantages, including:

Precise Temperature Control



The temperature regulation can be fine-tuned to meet precise requirements. They are highly responsive to temperature changes and quickly adjust to the hot and cold needs.

Compact & Light-weight



This makes the Peltier cooling systems easily portable and quick to attend to any support call.

Environment-friendly



Since they do not use ozone-depleting or flammable refrigerants, they are very eco-friendly systems.

Durable



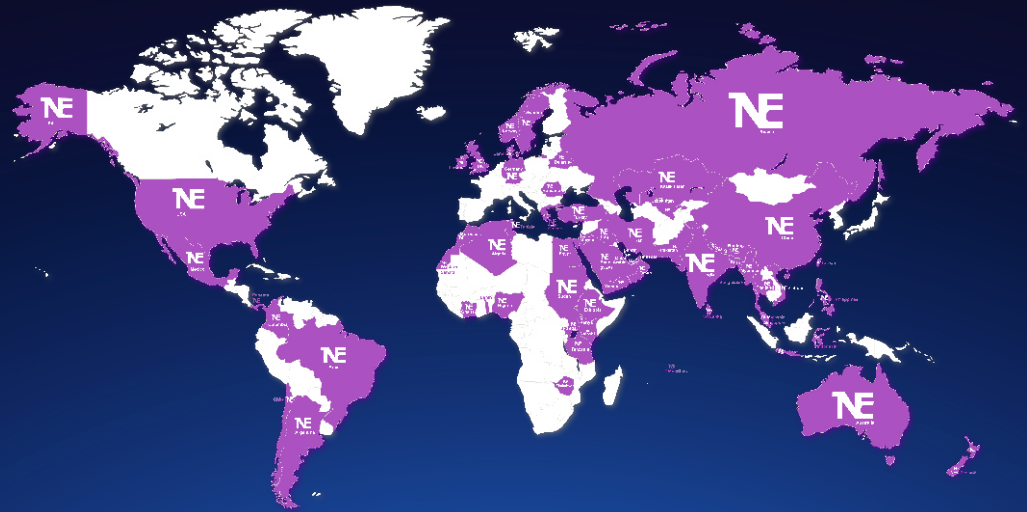
Peltier Cooling Systems are easy to operate and maintain. They can easily last for over a hundred thousand hours!

Quiet & Vibration Free



Peltier cooling systems do not have any compressors. Thus, there are no moving parts thereby ensuring quiet & vibration-free operations.

Internationally proven innovative product range



NLEPL/PT/0225/1.1

Newtronic Service Centers:

Domestic:		International:			
Ahmedabad	Hyderabad / Vizag	Algeria	Iraq	New Zealand	Turkey
Baddi	Indore	Australia	Jordan	Nigeria	Uganda
Bangalore	Kolkata / Sikkim	Bangladesh	Kazakhstan	Oman	UK
Chennai	Mumbai	China	KSA	Philippines	USA
Delhi	Pune	Egypt	Latin America	Russia	Vietnam
Goa	Vadodara	Ethiopia	Malaysia	Singapore	
		Indonesia	Morocco	Sri Lanka	
		Iran	Nepal	Thailand	
service@newtronic.in		service.exports@newtronic.in			

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