



The name you can trust

Cooling Chambers
Walk-In Cooling Chambers
(Cold Rooms)
Deep Freezers
Walk-In Deep Freezers
Pharma Refrigerators



$-20^{\circ}\text{C} \sim +15^{\circ}\text{C}$

Manufacturer of : Humidity Chambers | Walk In Chambers | Cooling Chambers | Photostability Chambers
Incubators | Deep Freezers | Pharma Refrigerators | Laboratory & Vacuum Ovens

Unrivalled cold storage protection for



Our high-performance cabinets deliver the performance and features that domestic and common commercial units don't offer:

- Directional airflow for uniform temperature at all shelves
- Alarm and set point security
- Temperature recording confirm optimal storage parameters
- Easy-to-read digital display

Features & Support to comply Regulatory
Requirements

valuable samples and materials

When it comes to protecting your valuable samples storage in laboratory, our **high-performance refrigerators and freezers** deliver the quality and dependability that household or food service units don't provide.

There are significant differences in levels of performance and reliability across categories of cold storage equipment. The truth is, it takes far less than a major failure of your refrigerator or freezer to wipe out years of research or your valuable inventory.

Consumer and commercial appliances are simply not designed (and won't make the claim) to provide the worry-free protection necessary for **high-value** contents such as **blood products, cell cultures, enzymes, vaccines, and therapeutics**.

Newtronic's high-performance laboratory refrigerators and freezers are purpose-built in every aspect to protect the valuable samples, providing you with both **peace-of-mind** and a **great return on your investment**.

Features & Support:

Features:

- Alarms for deviation at multiple locations
- Mobile Alert System for SMS (Optional)
- Safety device for undershoots
- Standby Cooling System with auto switch over (Optional)
- Ethernet interface for PC communication
- Lockable doors
- Password protected door access system (Optional)
- Password protected set values and Audit trails
- Utility monitoring

Support

- Onsite calibration and validation services
- Complete validation package comprising DQ, IQ, OQ and PQ
- SOP's for operation, calibration, validation and maintenance
- Certified Training by experts for operation & maintenance
- Annual Maintenance contract



Features | Functionality | Flexibility

Walk - In Cooling Chambers (Cold Rooms)



Key Features

- ◆ Air circulation for uniformity
- ◆ Frost free temperature controlling system
- ◆ Alarms for.....
 - ◆ Temperature deviation
 - ◆ Door open
 - ◆ Power failure
- ◆ Ethernet Interface for PC Communication
- ◆ Rugged Lockable door
- ◆ Safety:
Unlocks door from inside without key
- ◆ Man trap emergency alarm hooter

- PUF insulated body
- Cam lock system for easy and fast assembly at site
- Viewing window
- Internal Chamber light
- Anti slip flooring mat inside the chamber
- Stainless steel perforated trays

- Fast recovery in case of open door or power failure
- Flush to inner body instrumentation system
- Self diagnosis
- Low temperature safety cut-off
- Remote alarm contacts

Fine Interiors with specialised
Key features

Ordering Information

Walk - In Cooling Chambers Temperature Range: 2°C to 8°C

Standard Equipment Features

- Interior made of Stainless Steel & Exterior made of either Powder Coated Steel or Stainless Steel
- Digital display PLC based temperature controller.
- CFC Free Refrigeration system
- Perforated stainless steel trays
- Forced air circulation for uniform temperature
- Lockable swing type door with glass window
- Provision to open door from inside without help of key
- Alarms for temperature deviations and emergency alarm for man trap inside chamber.
- Fluorescent light for illumination inside chamber.
- Safety devices for temperature undershoots.
- IQ, OQ and PQ protocols
- Calibration Certificate
- Ethernet PC interface with data logging
- Remote alarm contact

Options

- ICDAS software: Centralized work station provides the tool for viewing, trending and alarm management of chamber. It is US FDA 21 CFR Part 11 ready.
- 8 point scanner for temperature to study distribution in the chamber.
- Standby cooling system
- Touch screen display
- Door access system
- Mobile alert system
- Remote alarm system

Electrical Supply :

220 VAC, 50 Hz (60 Hz available on request)

◆ Selection Guide of Walk - In Cooling Chambers

Exterior M.S. Powder Coated Interior S.S.	Exterior & Interior S.S	Capacity		Internal Dimension	External Dimension	Trays	Size
		Cuft.	Litres	HxWxD (Mtr.)	HxWxD (Mtr.)	Nos.	Mtr.
NEC 1190RI	NEC 1190RSI	190	5400	2.00 x 1.36 x 2.00	2.12 x 1.48 x 2.12	24	0.870 x 0.300
NEC 1230RI	NEC 1230RSI	230	6400	2.40 x 1.36 x 2.00	2.52 x 1.48 x 2.12	32	0.870 x 0.300
NEC 1280RI	NEC 1280RSI	280	8000	2.00 x 2.00 x 2.00	2.12 x 2.12 x 2.12	24	0.870 x 0.600
NEC 1340RI	NEC 1340RSI	340	9600	2.40 x 2.00 x 2.00	2.52 x 2.12 x 2.12	32	0.870 x 0.600
NEC 1530RI	NEC 1530RSI	530	15000	2.40 x 2.50 x 2.50	2.52 x 2.62 x 2.62	48	0.725 x 0.800
NEC 1640RI	NEC 1640RSI	640	18000	2.40 x 2.50 x 3.00	2.52 x 2.62 x 3.12	48	0.900 x 0.800

*Custom Build Chambers also available

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

Note: Size or specifications may change without prior notice



Lockable Door



Adjustable Shelf



Viewing Window



Touchscreen (Optional)

Unique Features

Cooling Chambers

Temperature Range:
2°C to 8°C



Cooling Chambers:

Standard Equipment Features

- Interior made of Stainless Steel & Exterior made of either Powder Coated Steel or Stainless Steel
- Digital display microprocessor based temperature controller with data logging
- CFC Free Refrigeration system
- Perforated stainless steel trays
- Full length Inner glass door and lockable outer metal door
- Alarm for temperature deviation
- Safety devices for temperature under shoots.
- IQ, OQ and PQ protocols
- Calibration Certificate
- Printer and Ethernet PC interface with data logging
- Remote alarm contact
- PU Wheel for easy movability

Options

- ICDAS software: Centralized work station provides the tool for viewing, trending and alarm management of chamber. It is US FDA 21 CFR Part 11 ready.
- 4 point scanner for temperature to study distribution in the chamber.
- Standby cooling system
- Mobile alert system
- Remote alarm system

Electrical Supply :

220 VAC, 50 Hz (60 Hz available on request)

◆ Selection Guide of Cooling Chambers

Exterior M.S. Powder Coated Interior S.S.	Exterior & Interior S.S.	Capacity		Internal Dimension	External Dimension	Weight (Kg)		Trays	Tray Size
		Cuft.	Ltrs.	HxWxD (mm)	HxWxD (mm)	Equipment	Shipping	Nos.	(mm)
NEC 104RTCI	NEC 104RTCSI	4	100	450 x 450 x 480	925 x 700 x 675	150	225	2	410 x 440
NEC 108RTCI	NEC 108RTCSI	8	200	600 x 600 x 600	1150 x 760 x 1045	200	275	2	560 x 560
NEC 112RTCI	NEC 112RTCSI	12	324	900 x 600 x 600	1450 x 760 x 1045	250	325	3	560 x 560
NEC 116RTCI	NEC 116RTCSI	16	430	1200 x 600 x 600	1795 x 760 x 1095	275	350	4	560 x 560
NEC 121RTCI	NEC 121RTCSI	21	600	1200 x 700 x 700	1795 x 860 x 1195	300	400	4	660 x 660
NEC 128RTCI	NEC 128RTCSI	28	800	1200 x 800 x 800	1795 x 960 x 1295	325	425	4	760 x 760
NEC 134RTCI	NEC 134RTCSI	34	1000	1500 x 800 x 800	2095 x 960 x 1295	350	450	5	760 x 760
NEC 154RCI	NEC 154RCSI	54	1500	1800 x 900 x 900	2105 x 1660 x 1065	550	700	12	860 x 350
NEC 171RTCI	NEC 171RTCSI	71	2000	1500 x 1600 x 800	2095 x 1760 x 1295	750	900	10	710 x 760

Choice of Chambers
to Meet Your Specific Needs

Deep Freezers

Temperature Range:
-20°C to +5°C



Standard Equipment Features

- Upright model
- Large storage capacity
- High density PUF insulation for high efficiency
- Lockable doors
- Leak proof gasket door
- Adjustable trays.
- Interior made of Stainless Steel and exterior made of either Powder Coated Steel or Stainless Steel
- Forced air circulation for maximum uniformity
- Auto turn OFF of air circulation system on opening door to minimize temperature loss
- Auto defrost of coils
- Alarms for temperature deviation, open door and power failure
- Enlarged digital display improves visibility, with 0.1°C resolution for accurate measurement
- Lockable PU wheels for easy movability of Freezers
- Ethernet communication port for PC communication and Printing facility
- Data Logging

Electrical Supply :
220 VAC, 50 Hz (60 Hz available on request)

◆ Selection Guide of Deep Freezer

Exterior M.S. Powder Coated Interior S.S.	Exterior & Interior S.S.	Capacity		Internal Dimension	External Dimension	Weight (Kg)		Trays	Tray Size
		Cuft	Litres	HxWxD (mm)	HxWxD (mm)	Equipment	Shipping	Nos.	mm
NEC 108RTCI20	NEC 108RTCSI20	8	200	600 x 600 x 600	1150 x 760 x 1045	200	275	2	560 x 560
NEC 112RTCI20	NEC 112RTCSI20	12	324	900 x 600 x 600	1450 x 760 x 1045	250	325	3	560 x 560
NEC 116RTCI20	NEC 116RTCSI20	16	430	1200 x 600 x 600	1795 x 760 x 1095	275	350	4	560 x 560
NEC 121RTCI20	NEC 121RTCSI20	21	600	1200 x 700 x 700	1795 x 860 x 1195	300	400	4	660 x 660
NEC 128RTCI20	NEC 128RTCSI20	28	800	1200 x 800 x 800	1795 x 960 x 1295	325	425	4	760 x 760
NEC 134RTCI20	NEC 134RTCSI20	34	1000	1500 x 800 x 800	2095 x 960 x 1295	350	450	5	760 x 760

Options:

- ICDAS software: Centralized work station provides the tool for viewing, trending and alarm management of chamber. It is US FDA 21 CFR Part 11 ready
- 4 point scanner for temperature to study distribution in the Deep Freezer
- Mobile alert system

Specialised Designs
to meet specialised task

Pharma Refrigerator

Temperature Range:
Upper Chamber: -20°C ~ +5°C
Lower Chamber: 2°C ~ 8°C



Standard Equipment Features

- PUF Insulated body
- Exterior & Interior made of Stainless Steel
- Two separate chambers with separate controller with data logging
- Digital display microprocessor based temperature controller
- CFC free refrigeration system
- Mesh type stainless steel trays
- Inner full length glass door for 2° to 8° C lower chamber and lockable outer door.
- Alarm for temperature deviations
- Safety devices for temperature under shoots.
- IQ, OQ and PQ protocols
- Calibration Certificate
- Printer and Ethernet PC interface with data logging
- Remote alarm contact
- Upper Chamber (-20°C) with auto defrost and air circulation for uniformity



Electrical Supply : 220 VAC, 50 Hz (60 Hz available on request)

Advantages Over Domestic Refrigerator

- Independent Cooling & Monitoring Systems for both chambers
- Meet Regulatory Requirements with validation
- Software Connection

◆ Selection Guide of Pharma Refrigerator

Exterior & Interior S.S	Chamber	Temp. Range	Capacity	Inner Dimension	External Dimension	Trays in each	Tray Size (mm)
		°C	Litres	HxWxD (mm)	HxWxD (mm)	Nos.	
NEC 212DRTSS11	Upper	-20	108	300 x 600 x 600	1595 x 760 x 895	1	560 x 560
	Lower	2 to 8 C	216	600 x 600 x 600		2	560 x 560

Options

- ICDAS software: It is US FDA 21 CFR Part 11 ready.
- 8 point scanner for temperature to study distribution in the chamber .

Innovation | Technology | Precision



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