



ULTRA LOW TEMP

PRODUCT
OVERVIEW

LABRepCo
One Company • Many Solutions



A NEW LEADER IN ULTRA LOW TEMP FREEZERS

Benefits you need, features that make it the perfect solution.

Available in 17, 21 & 25 Cubic Foot Models

Control Center

- Large LCD control panel
- Oversized LED temperature display
- Password protected

Ergonomic Door Handle

- Easy one-hand open & close
- Key lockable for sample security

Diagnostic Capabilities

- RS-232 accommodates downloading of event logs

External Monitoring

- 4-20mA output
- Remote alarm contacts
- Compatible with external alarms and monitoring systems
- Optional chart recorder



Added Sample Security

- 21 audible & visual alarms
- Voltage booster to protect the compressor during periods of low voltage
- Battery backup for alarms
- Rear access port for central building alarm system

Reserve Capacity with High Efficiency & Low Noise

- Two high efficiency compressors
- 300 BTU/h reserve capacity
- Low decibel levels

User Friendly Maintenance

- Easy to access and clean condenser filter
- Low profile casters with locks

Triple Seal Gasket

- Reduces frost & ice build-up
- Maximum protection for sensitive samples

Vacuum Relief Port

- Eases door openings without sacrificing superior seal
- Accessible for cleaning

5 1/2" to 6" Thick Urethane Insulation

- Reduces power consumption while improving temperature performance

Five Individual Compartments with Adjustable Shelves

- Gain maximum versatility without sacrificing temperature performance
- Designed to utilize standard racks

Five Double Wall Insulated Inner Doors

- Reduces cold air loss and improves temperature recovery after door openings
- Better temperature uniformity



Shown with optional chart recorder

Designed to fit through a 34" doorway

Low Profile Casters with Locks

Environmentally Friendly

Two high efficiency compressors

6" Thick insulation

CFC-HCFC Free Refrigerant and Insulation

5 inner doors

All reduce energy consumption to only 15 kw/day



Quality

Superior strength, seal and durability guaranteed with state of the art molding fixtures that combine the strength of steel with high R-value structural foam.

ADVANCED & CONFIGURABLE CONTROL

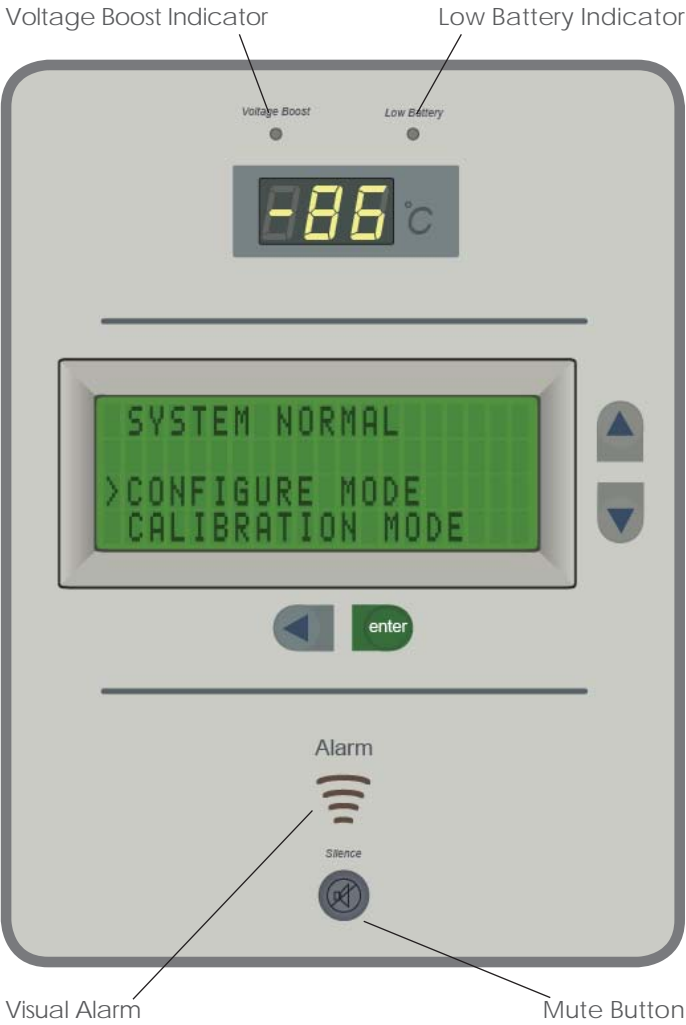
Easy to use, multi-function control is password protected, and monitors 24 functions and conditions.

Intuitive Interface

Easy to follow prompts simplify changing set points, calibration and accessing diagnostics.

Simple to Troubleshoot

The control system monitors and records all specified conditions up to 4,000 events. This history can be downloaded for rapid assessment of any alarm.

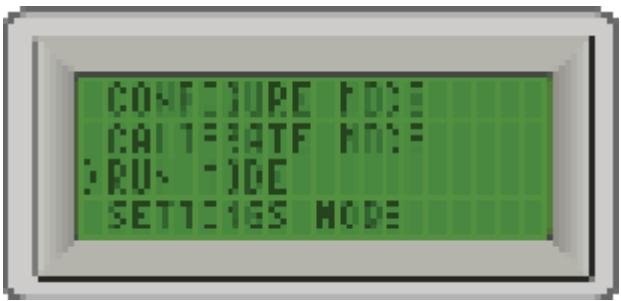


Functions & Conditions

High control probe temperature	High stage system failure	Ambient probe failure
Low control probe temperature	Low stage system failure	Sample probe failure (if installed)
Door is ajar	Condenser air flow alarm	Control probe disconnected
Power failure — loss of AC input voltage	Low voltage alarm	Heat exchanger disconnected
Power failure — loss of 12V power supply	High voltage alarm	Condenser probe disconnected
Incorrect power connected	Control probe failure	Ambient probe disconnected
High ambient temperature	Heat exchanger probe failure	Sample probe disconnected (if installed)
Low battery voltage	Condenser probe failure	Failed battery test

PRECISE TEMPERATURE

100% Precision Control for your sensitive specimen.



Configure

- Ring-back delay
- Password security (Access code)
- LCD contrast
- Run battery test
- Battery backup
- Sample

Calibrate

The owner's manual includes detailed calibration information and instructions.

Run

- Version details (control)
- Condenser temperature.
- Heat exchanger temperature
- Ambient temperature
- Control temperature
- Line voltage
- Cycle period
- Battery life

Settings

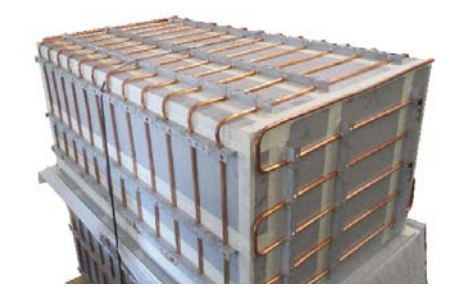
- Set time
- Set date
- Access code (status message)
- High alarm
- Temperature set
- Low alarm

21 Audible & Visual Alarms

Ensure sample security
Extend freezer life by notifying user of:

High Temp Alarm	H S System Failure	Sample Probe Failure
Low Temp Alarm	L S System Failure	Ambient Probe Failure
AC Line Failure	Air Flow Problem	Line/Boost Voltage Sensing
12V PS Failure	Low Line Voltage	Probe Unplugged
Incorrect Power	High Line Voltage	Failed Battery Test
High Ambient Temp	Control Probe Failure	Initializing Error
Low Battery	Heat Exchanger Probe Failure	Door Open

ENGINEERED TO PERFORM & LAST



- Power to Cool
- Five sides of direct contact copper evaporator tubes secured with steel tabs



- Strength to Last
- Steel, double walled cabinet
 - Double walled inner doors
 - Triple contact gasket
 - 6" of urethane insulation in critical areas



- Designed to Standardize Your Lab
- Utilizes standard racks



- Easy Access
- One-step filter access
 - Removable sides, rear and front panels

SPECIFICATIONS PRODUCT & INVENTORY



Model Number	LABHP-17-ULTA* LABHP-17-ULTD**	LABHP-21-ULTA* LABHP-21-ULTD**	LABHP-25-ULTD
Temperature Range	-50°C to -86°C; preset to -80C	-50°C to -86°C; preset to -80C	-50°C to -86°C; preset to -80C
Dimensions exterior (HxWxD) inches	79.6 x 37.6 x	79.6 x 43.3 x 36.3	79.6 x 49 x 36.3
Dimensions interior (HxWxD) inches	50 x 23.4 x 23	50 x 29.1 x 23	50 x 34.8 x 23
Inner doors	5 insulated	5 insulated	5 insulated
Security	All models feature key lockable door & passcode protectable control		
Compressors	½ HP x ½ HP cascade	½ HP x ½ HP cascade	½ HP x ½ HP cascade
Insulation	5.5" to 6" FIP urethane	5.5" to 6" FIP urethane	5.5" to 6" FIP urethane
Door gasket	3-point silicone sealing	3-point silicone sealing	3-point silicone sealing
BTU rejection	2150	2370	2580
Shipping weight	700	780	855
Electrical	115v/230v	115/230v	230v
Breaker requirement	*115v / 16 amps dedicated **230v / 10 amps dedicated	*115v / 16 amps dedicated **230v / 10 amps dedicated	230v / 10 amps dedicated
Plug	*115v / NEMA 5-20R **230v / NEMA 6-15R	*115v / NEMA 5-20R **230v / NEMA 6-15R	230v / NEMA 6-15R
Agency listings	UL 471	UL 471	UL 471
Performance			
Average stability	2°C	2°C	2°C
Average uniformity	±4.5°C	±4.5°C	±4.5°C
Reserve capacity	300 BTUh @ 25°C	300 BTUh @ 25°C	300 BTUh @ 25°C
Warm-up time	-80°C to -50°C in 5 hrs -80°C to 0°C in 12 hrs	-80°C to -50°C in 5 hrs -80°C to 0°C in 12 hrs	-80°C to -50°C in 5 hrs -80° to 0°C in 12 hrs
Average energy consumption	15 kW Hour/day	16.5 kW Hour/day	18 kW Hour/day
Sound pressure level	55 - 65 db A scale @ 5 feet depending upon location and measurement testing		

Storage

Inventory racks will store sixteen (16) 2" boxes arranged four boxes high by four boxes deep or twelve (12) 3" boxes arranged three boxes high by four boxes deep. Rack dimensions are 8-7/8"H x 5-1/2"W x 22-1/4"D including the handles on the front and back of the rack.

Box Capacity			
2" Boxes	320	400	480
3" Boxes	240	300	360
# of Racks	20	25	30
Racks/Shelf	4	5	6

Supplying the tools and equipment the scientific community needs to succeed.

THE **LAB**RepCo DIFFERENCE:

Guaranteed two-year parts & labor warranty and an additional three-year compressor parts warranty.

Over 30 years experience of delivering quality products to protect and preserve your life's work.

Versatility & variety: from temperature presets to sizes, to shelf configurations, you get the exact products you need.

A support network to assist before, during and after the sale.



Ordering & Contact Information

Contact us today to speak to a Cold Storage Specialist.

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LABRepCo
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