Laboratory Refrigerators & Freezers - LAB Series

Owner's Manual

EBWR1-LAB, EBWR1-LAB, EBGWR1-LAB, EBR2-LAB, EBGR2-LAB, ETBF1-LAB, EBWF1-LAB, EBF2-LAB





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Laboratory Refrigerators & Freezers - LAB Series

EBWR1-LAB, EBWR1-LAB, EBGWR1-LAB, EBR2-LAB, EBGR2-LAB, ETBF1-LAB, EBWF1-LAB, EBF2-LAB



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Hydrocarbon Guidelines

This section applies to R290 Hydrocarbon units only. To identify the refrigerant type, see the data plate in the cabinet interior.

WARNING - THIS UNIT USES R290, A HYDROCARBON, PROPANE REFRIGERANT THAT IS ENVIRONMENTALLY FRIENDLY BUT IS ALSO HIGHLY FLAMMABLE AND EXPLOSIVE. PLEASE READ THIS MANUAL CAREFULLY AND FOLLOW ALL SAFETY PRECAUTIONS CONTAINED HEREIN TO AVOID THE RISK OF FIRE OR EXPLOSION. FAILURE TO FOLLOW THE SAFETY PRECAUTIONS MAY RESULT IN SERIOUS INJURY, OR DEATH, AND/OR PROPERTY DAMAGE.

- DANGER Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices or other means to accelerate the defrosting process. Do not puncture refrigerant tubing.
- DANGER Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.
- CAUTION Risk of fire or explosion. Flammable refrigerant used. Consult Service Manual or Owner's Manual before attempting to install or service this product. All safety precautions must be followed.
- DANGER Risk of fire or explosion. Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.
- DANGER Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully. Flammable refrigerant used.





PROPANE (R290) IS HIGHLY APPROVED FOR USE AS A REFRIGERANT IN COMMERCIAL, SELF-CONTAINED UNITS IN THE US UNDER LIMITED USE CONDITIONS. IT CAN ONLY BE USED IN NEW EQUIPMENT. BACKFITTING OR MODIFICATIONS OF OLD EQUIPMENT ARE NOT ALLOWED. IT MUST BE CHARGED IN A STRICTLY LIMITED VOLUME OF UP TO 150 GRAMS (5.3 OZ) PER REFRIGERATION CIRCUIT. EVEN THOUGH THIS IS A SMALL AMOUNT, IT STILL PRESENTS A FIRE OR EXPLOSION HAZARD IF IT LEAKS OUT OF PARTS THAT HOLD REFRIGERANT. WHEN IT COMES IN CONTACT WITH AIR, A FLAMMABLE PROPANE-AIR MIXTURE CAN BE CREATED AND EASILY IGNITED BY ELECTRICAL SPARKS, OPEN FLAMES OR HOT SURFACES. THE RISK IS HIGHER IN SMALL, CONFINED, POORLY VENTILATED SPACES. PROPANE WILL SETTLE AT LOWER ZONES BECAUSE IT IS HEAVIER THAN AIR. TO REDUCE THESE RISKS, OBSERVE THE FOLLOWING PRECAUTIONS

- Avoid installation of unit in areas with open flames or in general vicinity of open flames or high surface temperatures.
- Avoid unit installation in small, confined spaces. Ensure ample ventilation at all times. Keep all exhaust vents free of any blockage or obstruction.
- Do not rely on smell to detect potential leaks of propane refrigerant. Propane refrigerant is a high-purity propane gas and does not contain odorants or stenching agents. These additives are typically used in fuel-grade propane and natural gas in order to give them a distinctive smell, which makes it easier to detect leaks.
- General service and repairs must be performed in well-ventilated areas.
- General service and repairs must be performed only by professionals authorized by Everest Refrigeration.
- Component shall be replaced with Everest-issued, like components to minimize the risk of possible ignition resulting from incompatible parts or improper repairs.
- Do not modify, re-appropriate, or remove any functional part(s) from the unit.
- Handle the unit with care to avoid any damage.
- Practice safety guidelines when transporting the unit. Consult with your local Department of Transportation for requirements in moving flammable gasses.

Hydrocarbon Guidelines 2

Installation Instructions

This section applies to all Everest products. Correct installation ensures proper performance and longevity of your appliance. Professional installation by a trained refrigeration technician and electrician is recommended. Warranty is void if the following guidelines are not met.

- Inspect for any freight damage upon delivery of the unit. If damage is detected, immediately report it to an Everest representative. Everest is not responsible for damage that occurs during shipment.
- 2. Keep the unit upright at all times. The compressor contains oil, refrigerant, lubricants, and various chemicals. When tilted, these fluids may shift and travel to sections where they don't naturally occur. This will lead to system contamination and compressor failure.
- Some units require caster installation for proper performance. Visit our website at www.everestref.com and enter your product's model number in the search field to determine its caster requirements.
- **4.** Do not place your hands under the unit when moving it to avoid injury from sharp edges, protruding parts or weight impact.
- 5. Select a location with good air ventilation. Poor ventilation rapidly increases ambient temperature. High ambient temperatures exceeding 86°F (30°C) promote excessive compressor activity in order to maintain the desired cabinet temperature. This will result in decreased performance, advanced component failure and the risk of fire.
- 6. Select a location away from heat-generating equipment such as stoves, ovens, etc. Heat sources rapidly increase the temperature of the immediate vicinity. High temperatures exceeding 86°F (30°C) promote excessive compressor activity in order to maintain the desired cabinet temperature. This will result in decreased performance, advanced component failure, and the risk of fire.
- 7. A distance of 6" is required for backside clearance. This ensures proper ventilation and prevents overheating which can lead to advanced component failure and the risk of fire.

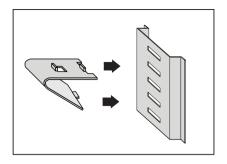
- 8. Select a location with a hard, leveled surface.

 Use a leveling tool on the unit to ensure proper alignment. Proper door function and condensate removal is dependent on accurate balance.

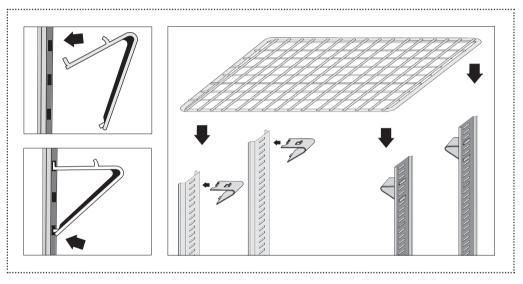
 Install the front leg stabilizers for units that come standard with it to ensure proper door functions and unit stability.
- Select a location close to an electrical wall outlet to ensure direct connection without the use of extension cords.
- 10. Select a location away from severe moisture conditions. This may compromise the unit's electrical components and lead to electrical shocks or the risk of fire.
- 11. Select a location that will not expose the unit to extremely dusty conditions. Environments with high dust and debris content will significantly hasten condenser coil blockage and will result in decreased performance, advanced component failure and the risk of fire.
- 12. Do not build an enclosure or cabinet around the unit. This will restrict air ventilation resulting in elevated compressor activity, decreased performance, advanced component failure and the risk of fire.
- 13. The unit is not intended for use in food trucks. Limited space, lack of ventilation, and ambient temperatures exceeding 86°F (30°C) typical to this setting will result in elevated compressor activity, decreased performance, advanced component failure, and the risk of fire.
- 14. The unit is intended for indoor use only. Outdoor use will cause a decrease in performance, advanced component failure and the risk of fire.

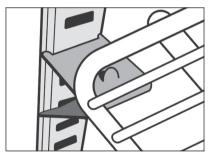
3 Installation Instructions

Shelf Installation

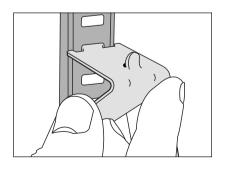


 Attach the shelf clips onto the pilasters by inserting its top hook into a pilaster notch followed by the bottom hook. Do not use pliers or other crimping tools to modify the shape of the shelf clips. This will result in shelf mounting instability.





2. Place shelves on the shelf clips making sure all corners are mounted securely and evenly with identical distance from the unit's floor and up. Always lay the back of each shelf down on the rear clips before the front.

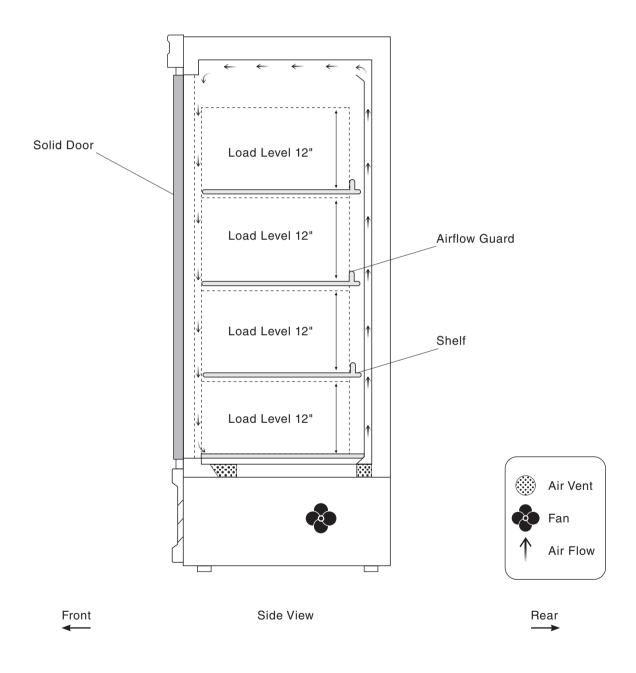


3. When removing a shelf, unmount the shelf from the shelf clips. To detach the shelf clip from the pilaster, tilt up the shelf clip until the bottom hook clears, followed by the top hook.

Installation Instructions

Product Load Level & Shelf Placement

Product Load Level for LAB Series



5 Installation Instructions

General Safety

This section applies to all Everest products. Use your appliance according to its designed function as specified in this Owner's Manual. Warranty is void if the following guidelines are not met.

- Before the unit is used, it must be installed and connected according to the installation instructions provided in this manual.
- Remove all packaging material and protective vinyl covering from the unit before it is used.
 These items are flammable and can lead to a fire.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of the unit.

 Do not store combustible or explosive items and substances such as aerosol cans in or around the vicinity of the unit.
- Do not place objects on or around the exhaust vents of the unit. This can cause overheating which may lead to a fire or explosion. Objects may also fall when opening and closing doors which may lead to serious injury.
- Do not climb, stand, or hang on the shelves, doors or drawers of the unit. This can damage the unit and lead to serious injury.
- Do not touch the freezer interior if your hands are wet or damp. This may lead to freezer burn or cause your skin to stick to the cold surface.
- If you suspect a refrigerant leak or a compromised refrigeration system, disconnect the unit, and contact Everest Refrigeration immediately.
- When disposing the unit, remove all doors and shelves to avoid any risk of injury or entrapment. Ensure that the refrigerant in the condensing unit is properly disposed of by a qualified refrigeration technician according to governmental codes, requirements and regulations.



General Safety 6

Electrical Safety

This section applies to all Everest products. Basic safety precautions must be observed when using electrical appliances in addition to the following. Warranty is void if these guidelines are not met.

Everest units are equipped with a 115V/60Hz/1Ph, NEMA 5-15P. A 15 amp breaker must be used for units that come with a NEMA 5-15P plug. A 20 amp breaker must be used for units that come with a NEMA 5-20P plug.

The ground prong must not be removed to reduce the risk of electric shock and related hazards. If the grounding pin is missing, the cord must





be removed from use. If the outlet is a standard 2-prong outlet, it must be replaced with the properly grounded 3-prong wall outlet. Only a qualified electrician may install the correct power source.

To guarantee electrical safety, the wall outlet and circuit must be checked by a qualified electrician to make sure it is properly grounded.

Remove debris from the power plug prongs with a soft cloth or brush before connecting it to an outlet.

Assign the unit to a dedicated, undamaged electrical circuit with a voltage rating that matches the data plate. Check the incoming voltage with a multi-meter. This avoids the overloading and overheating of circuit wires which may lead to a fire.

Do not use extension cords, adapter plugs or other third party electrical connections. Everest is not responsible for issues resulting from improper electrical connections, electrical power failures and voltage fluctuations.

Everest does not recommend the use of generators in conjunction with the unit due to voltage fluctuations that may compromise electrical components.

Turn off the unit using the power button before unplugging. Wait at least 5 minutes before re-plugging to prevent damage to the compressor.

Do not unplug the unit by tugging on the power cord. Grip the plug and pull it securely out of the outlet.

Prevent damage to the power cord by providing sufficient clearance around and under the unit. Do not use a power cord that shows cracks or exposed wires. Power cords that have been severely worn or damaged must be replaced with original manufacturer parts and only by an authorized technician.

7 Electrical Safety

Operation

This section applies to all Everest products. Use according to the described and intended functions. Warranty is void if these guidelines are not met.

Starting your Everest Product

After plugging in the unit, the current temperature and compressor symbol will appear on the digital temperature control's LED display. will flash at short intervals for 1 minute after which the compressor(s) and condenser fan motor(s) will initiate. At the beginning of every compressor cycle, the condenser fan motor is automated to rotate in reverse for 30 seconds in order to blow dust off the condenser coil.

The evaporator fan motor(s) will initiate once the evaporator coil reaches a specific temperature relative to the digital temperature control setting and for as long as the door is closed. A fan symbol will appear on the LED display to indicate that the evaporator fan is running.

Allow the unit to operate for 24 to 72 hours before storing contents in the cabinet. This lets the cabinet temperature fully stabilize. Use this time to verify proper installation and operation.

The interior light and evaporator fan motor is controlled by a door switch for solid door models and a rocker switch for glass door models.

The default temperature setting is 35.0°F (2.0°C) for refrigerators and -4.0°F (-20.0°C) for freezers. The factory recommended temperature range is between 35°F. Temp-set range from 32°F to 54°F, for refrigerators and -4°F. Temp-set range from -10°F to 54°F for freezers. Setting the temperature outside of the recommended range will cause performance issues and in some cases may result in component failure that is outside of warranty coverage.

The compressor, condenser and evaporator fan motors run while the unit is on refrigeration cycle.

The compressor, condenser and evaporator fan motors stop running while the unit is on defrost cycle.

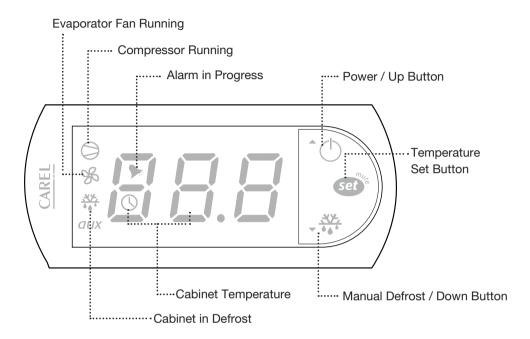
The unit is preset to defrost every 5-6 hours with a duration of 45 minutes or less depending on the evaporator coil temperature. Changing the preset outside of the default range will result in cooling issues and advanced component failure.

The digital temperature control is intended to read and display the cabinet's air temperature, not actual food product temperature. The displayed temperature may fluctuate due to frequent or prolonged door operation. The most conclusive method to determine a unit's cooling performance is to measure the food product's temperature using a digital food thermometer.

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Carel 'Easy' Digital Temperature Control

Everest units are equipped with a Carel Digital Temperature Control. The type of controller is dependent on the model and production date.



Setting the Temperature

1. Press and hold <u>Temperature Set Button</u> **Set** for 2 seconds until the LED blinks SET alternating with a number. The blinking number is the current set temperature.

CAUTION: If PS appears on the LED



This means the <u>Temperature Set button</u> **Set** was held down longer than 3 seconds. To exit this mode and restart, press <u>Temperature Set Button</u> **Set**

Setting the Temperature (continued)

- 2. Toggle through the desired temperature by pressing UP or DOWN The number increases or decreases by a decimal point.
- 3. The recommended setting is 35.0°F (2.0°C) for refrigerators and -4.0°F (-20.0°C) for freezers. The available temperature setting range is 33.0°F to 54.0°F (1.0°C to 12.0°C) for Refrigerators and -10.0°F to 54.0°F (-23.0°C to 12.0°C) for Freezers.
- **4.** Press and hold the Temperature Set Button **Set** for 3 seconds to save the new temperature and exit the setting mode. The LED will return to the current cabinet temperature.

Initiating Manual Defrost

The controller has an automatic defrost cycle in place so initiating manual defrost is not necessary unless there is an abnormal accumulation of ice around the evaporator coil.

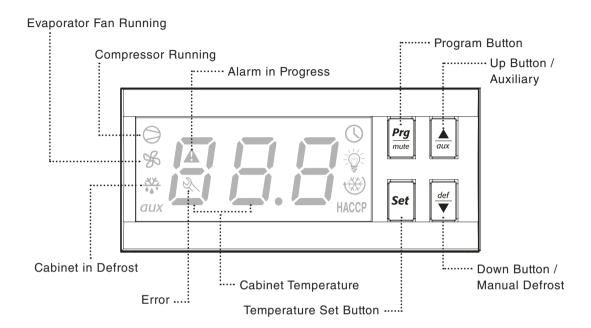
1. Press and hold down the Manual Defrost Button \downarrow until the Defrost Symbol appears on the LED display.



The compressor, condenser and evaporator fan motors will stop running. The refrigeration system will remain in defrost cycle for 45 minutes or until the evaporator coil reaches the safety termination temperature setting.

Carel 'ir33' Digital Temperature Control

Everest units are equipped with a Carel Digital Temperature Control. The type of controller is dependent on the model and production date.



Setting the Temperature

- 1. Press and hold Temperature Set Button for 2 seconds until a number blinks on the LED. The blinking number is the current set temperature.
- 2. Toggle through the desired temperature by pressing UP or or OWN. The number increases or decreases by a decimal point.
- 3. The recommended setting is 35.0°F (2.0°C) for refrigerators and -4.0°F (-20.0°C) for freezers. The available temperature setting range is 33.0°F to 54.0°F (1.0°C to 12.0°C) for Refrigerators and -10.0°F to 54.0°F (-23.0°C to 12.0°C) for Freezers.
- 4. Press and hold the Temperature Set Button for 3 seconds to save the new temperature and exit the setting mode. The LED will return to the current cabinet temperature.

Initiating Manual Defrost

The controller has an automatic defrost cycle in place so initiating manual defrost is not necessary unless there is an abnormal accumulation of ice around the evaporator coil.

1. Press and hold down the Manual Defrost Button the LED display.



The compressor, condenser and evaporator fan motors will stop running. The refrigeration system will remain in defrost cycle for 45 minutes or until the evaporator coil reaches the safety termination temperature setting.

Electronic Keypad Lock

Each Everest Laboratory Refrigerator and Freezer comes equipped with a standalone electronic keypad door lock featuring a programmable auto-lock function. Access can be obtained using either an RF keycard or a digital key/password. This section provides information on keycard and digital key registration and other setting adjustments.

KEYCARD AND DIGITAL KEY MANAGEMENT

Key Functions: * (Cancel / End), # (Enter)

Keycard Registration

- Keycard: Admin code (X2) → # → 1# → Attach your card to reader (repeat from) → #(End).
- By address: Admin code (X2) → # → 2# → Press your address to register → # → Attach your card to reader → (repeat from) → *(End).

Digital Key Registration

- Digital Key: Admin code (X2) → # → 3# → Press your address to register → (4-8 digits) → # → Repeat from → *(End).
- By address: Admin code (X2) → # → 4# → Press your address to register → # → Press your digital key to register (4–8 digits) → # → *(End).

Mass Deletion of Keycards and Digital Keys

- Card: Admin code (X2) → # → 6# → Admin code → *(End).
- Digital Key: Admin code (X2) → # → 7# → Admin code → *(End).

Individual Deletion of Keycards and Digital Keys

- By Address: Admin code (X2) → # → 8# → Press address to delete → # → Repeat → *(End).
- By Card: Admin code (X2) → # → 9# → Attach your card → # → *(End).

Address Numbers

- Card: 0001 ~ 7000
- Digital Keys: 7001 ~ 7100
- · When you register an additional digital key, register it by address.
- · Registering a new basic digital key will delete the original one.

FACTORY DEFAULT

- Admin Code: 1234
- Digital Key Number: 0000

Electronic Keypad Lock (continued)

KEYPAD SETTING ADJUSTMENT

Relay Output Time Adjustment

• Admin code (X2) → # → 11# → Press input time (01–60 sec) → #(End).

Key Switch Adjustment

- ON: Admin code (X2) → # → 22# → *(End).
- OFF: Admin code (X2) → # → **33**# → *(End).

Forced Open Adjustment

- Forced Open ON: Admin code (X2) → # → 55# (End).
- Forced Open OFF: Admin code (X2) → # → 66# (End).

Admin Code Adjustment

- Admin code (X2) → # → 99# → Admin code → # Press new admin code (4 digits) → # → *(End).
- · Change the admin code after installation.

Resetting the Admin Code to Factory Settings

Turn off your reader → Turn on your reader while pressing 1,2,3 at the same time.

Resetting the Reader to Factory Settings

- Turn off your reader → Turn on your reader while pressing *,#,0 at the same time.
- · Resetting back to factory settings will delete all registered keycards and digital keys.

EL-WiFi-VACX



WiFi Connected High-Accuracy Vaccine Temperature Monitoring Kit with Alarm Warning Light and Sounder

- Temperature measurement range -40 to +60°C (-40 to +140°F).
- Configurable alarm levels with on-board warning light and sounder.
- Digital calibratible probe with 3m cable.
- No need to remove from service for recalibration, just replace the probe.
- Wirelessly stream and view data on the EasyLog Cloud, and configure alarm email notifications.
- · View and analyse multiple devices, including graphing of historic data.
- · Easy device setup using free PC software or mobile app.
- Device memory stores all data even if Wi-Fi is temporarily disconnected.
- Traceable calibration certificate supplied at 2°C and 8°C.



The EL-WiFi-VACX measures the temperature of a probe fitted within a glycol-filled bottle, designed to mimic the temperature response of vaccine samples. Data is streamed wirelessly over any compatible Wi-Fi network and can be viewed on any internet-enabled device, via browser or free mobile app.

Device setup and connection to a WiFi network and the EasyLog Cloud are simple, just download the free EasyLog WiFi PC software or the free EasyLog Cloud mobile app and follow the device setup wizard. The device can be placed anywhere within range of the Wi-Fi network. If the device temporarily loses connectivity with the Wi-Fi network, it will log readings until it is able to communicate again with the EasyLog Cloud (max. 30 days at 10 second sample interval).

The device is IEEE 802.11bgn (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-VACX has a protection rating of IP42, and the probe IP67. The device is freestanding, but can be attached to a wall or surface using the bracket provided, and clipped in and out of the bracket as required. The device is equipped with a translucent back to show a red flashing indicator when it is in an alarm state as well as a moderate volume sounder to alert anyone in close proximity.

SPECIFICATIONS	Minimum	Typical	Maximum	Unit
Battery Life*		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20 (-4)		+60 (+140)	°C (°F)
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-40 (-40)		+60 (+140)	°C (°F)
Temperature measurement resolution		0.01 (0.02)		°C (°F)
Temperature display resolution		0.01		
Temperature accuracy**		±0.1/±0.2 (-10 to +60/ +14 to +140)	±0.6/±1.1 (-40 to +60/ -40 to +140)	°C/°F
IP Rating	Logger IP42, Probe IP67 (Bung fully inserted, not permanenetly powered, probe connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 36 mm (3.22 x 2.75 x 1.41")			

^{*} Please note the battery life statement on page 16 of this data sheet.

^{**} Accuracy may be affected when suing a non-approved power supply to charge or permanently power the EL-WIFI-VACX



EL-WiFi-VACX (continued)



WiFi Connected High-Accuracy Vaccine Temperature Monitoring Kit with Alarm Warning Light and Sounder

Easy Device Set Up and Connection

EL-WIFI-VACX is easy to set up and connect to the EasyLog Cloud. Use the EasyLog WiFi software for PC* or the EasyLog Cloud app available from Google Play or on the App Store.









EasyLog Cloud: Your Data. Anytime. Anywhere

EasyLog Cloud harness the power of IoT to automate data logging and alert notifications, enabling you to monitor and manage multiple data logging devices in different locations completely remotely. The system easily scales to meet your needs. Perfect for compact systems with just a few measuring points, or corporate solutions with thousands of devices around the globe.

You will need to create an account at www.easylogcloud.com before setting up your cloud-connected data logger.



Features at a glance*









Connect data loggers from multiple sites in a single account

Easily access your most important data. anvwhere

Remotely

manage all of your data logging devices



Never miss a critical event with flexible advanced notifications



Keep track of data events and system activity with a detailed event loa

Battery Life and Power Supply

The battery can be recharged (the unit must be between 0 and 40°C) via a PC, a USB +5V wall adapter, or a portable USB battery pack using the USB lead provided. It can also be permanently powered by a USB wall adapter or a USB battery pack. Readings may be affected while the internal battery is being charged. However, once charged, continued connection of the charger will have no effect.

Battery life is dependent on: transmission period, Wi-Fi encryption method, WiFi encryption key rotation frequency (determined by the router/access point), signal strength between router/access point and Wi-Fi device, presence, volume, and type of Wi-Fi traffic from other devices, sample rate, operating temperature, and frequency of audible and visual alerts.

Specifications liable to change without prior warning www.lascarelectronics.com/data-loggers

analyze your data with powerful araphina functionality

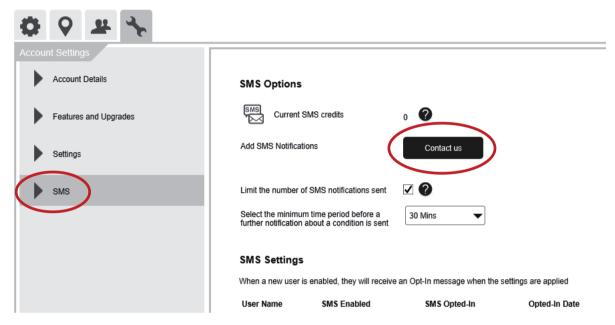
^{*}Features depend on account type

Easylog Cloud SMS Tutorial

This tutorial guides you through setting up SMS notifications on your EasyLog Cloud account, and also explains how this very useful feature works.

Step 1: Activate SMS Notifications on Your Account

From the Account menu, click on the spanner icon to view the Account Settings tab. On the left hand. side you'll see an option to view the SMS settings menu.



Click on Contact Us and a new message window opens. This is pre-completed for requesting SMS notifications on your account. Click to confirm you're not a robot and then click Send.

Contact Us

We love to hear from our users. If you need some help or have an idea for a new feature. Use the form below to contact us and we'll endeavour to reply within 24hrs.

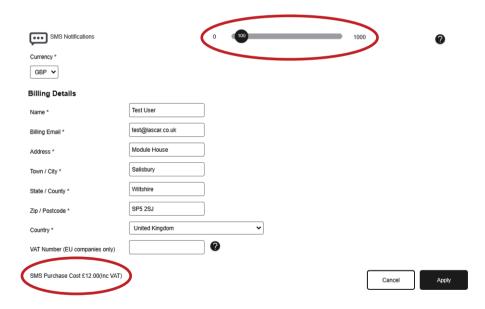
Account Name	Message		
Lascar Testing	I'm interested in using the SMS service and would like to purchase credits		
Name	10 paronas or cano		
Test User			
Email			
test@lascar.co.uk			
Contact Phone Number			
01234 567890			
Select a Recipient			
Support ▼			
	_		
	✓ I'm not a robot		
	Privacy - Terms		
	Send		

We will send you an email confirming when we have activated the SMS notifications feature on your account.

When activated, you can go back into the Account Settings page, where the Contact Us button will have changed to Buy Now.



Clicking the button opens a new window. Use the slider to select the number of SMS messages you wish to buy, and check the currency and billing details are correct. The cost of your purchase is shown at the bottom of the screen.



Click Apply to proceed to the payment screen where you can pay securely by card as normal. You'll now see on the Account Settings page that the number of remaining SMS messages is shown.

SMS Options Current SMS credits Add SMS Notifications Buy Now Limit the number of SMS notifications sent Select the minimum time period before a further notification about a condition is sent

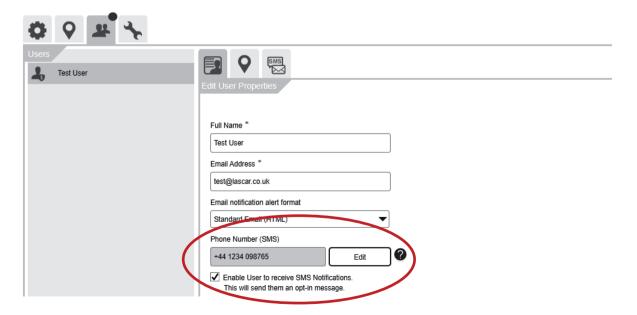
When the number of available SMS credits drops to 10, a reminder to top up your credits is sent to the billing email address. Another email will be sent if your credits actually run out.

Step 2: Set Which Users Can Receive SMS Notifications

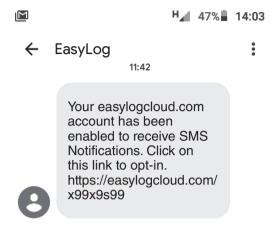
You can decide which users on your EasyLog Cloud account are able to receive SMS notifications. You need to follow this process for each user, including yourself if you're an administrator, and you also want to receive them.

First, you need to make sure each user has a mobile number set up for them. They can do this themselves in the Account menu, or administrators can do this for them from the Users tab. Select the correct country code for each phone number from the drop-down list.

Once a mobile number has been entered, from the Users tab, tick the box underneath the number to enable SMS notifications for that user, and then click Apply.

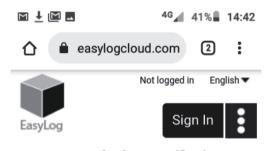


The user will now receive an SMS asking them to click on a link so they can opt into receiving SMS notifications.



IMPORTANT: You should advise your users to retain the original SMS message, so you can click on the link again in the future if they want to opt-out of the SMS system.

Clicking the link opens a web page with button to allow the user to opt in.



EasyLog Cloud SMS Notifications

Your user account has been enabled to receive SMS notifications

Please confirm that this is the correct number and you wish to receive notifications.

You are currently not opted-in to receive SMS Notifications

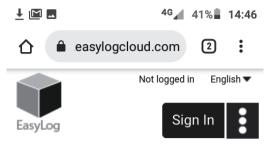


You can change your preferences at any time by using the link sent to you via SMS or by logging into your account and editing your preferences.

Select which devices send you SMS notifications by editing notification settings for each device.

SMS Notifications require credits that can be purchased by the account administrator. You will only receive notifications if credits are available.

Once they have opted in, the web page updates to show the new status.



EasyLog Cloud SMS Notifications

Your user account has been enabled to receive SMS notifications

Please confirm that this is the correct number and you wish to receive notifications.

SMS Notification Settings Updated

You are currently opted-in to receive SMS Notifications



You can change your preferences at any time by using the link sent to you via SMS or by logging into your account and editing your preferences.

Select which devices send you SMS notifications by editing notification settings for each device.

SMS Notifications require credits that can be purchased by the account administrator. You will only receive notifications if credits are available.

You can see that the button has changed so they can now opt out if they wish.

As an administrator you can view the SMS status of each user on your account from the SMS settings section in the Accounts menu.

SMS Settings

When a new user is enabled, they will receive an Opt-In message when the settings are applied

User Name	SMS Enabled	SMS Opted-In	Opted-In Date
Test User	✓	SMS	12/10/2020

If a user has not yet opted in or subsequently opted out, this is shown as the SMS Opted-In symbol changing from green to red.

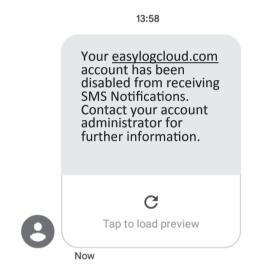
SMS Settings

When a new user is enabled, they will receive an Opt-In message when the settings are applied

User Name	SMS Enabled	SMS Opted-In	Opted-In Date
Test User	✓	SMS Resend Opt-In	12/10/2020

You now have the option to resend the opt-in message to that user if you wish.

If you later deselect a user from receiving SMS notifications, they will receive another SMS telling them this has happened.



Step 3: Set the SMS Notifications You Want for Each Device

EasyLog Cloud allows you to decide exactly which devices you receive SMS notifications about and which users will receive them.

From the Devices menu, select one or more devices, and then go to the Settings menu. On the Notifications tab, you'll see a list of the available users and which events they receive notifications for.



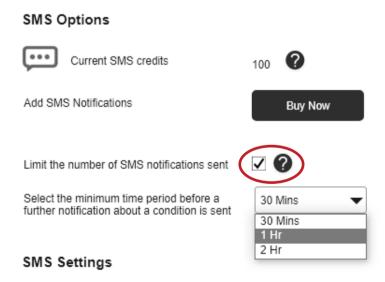
The selection for each user is divided between email and SMS notifications. The SMS icon is displayed for users who have been enabled to receive SMS notifications. As before, the icon is green if they have opted in or red if they have not. In either case, SMS notifications can be set up, so users will start receiving them as soon as they opt in.

Currently, SMS notifications are only available for Alarm conditions, but you can receive email notifications for all types of events (e.g., low battery) so you can stay up to date with the status of all your devices.

Also note that there are handy links at the top of this page to allow you to add more users to the list, enable SMS notifications for a user, or buy more SMS credits.

Step 4: Limit the Number of SMS Notifications Sent

EasyLog Cloud has a feature to limit the number of SMS notifications that are sent out to prevent unnecessary notifications if a device is going in and out of rooms in rapid succession. This feature is active by default, but you have the option to change it or deactivate it.

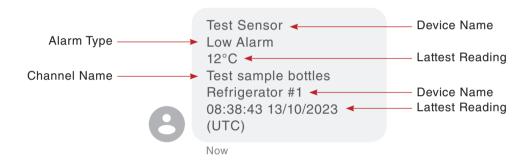


Limiting the number of SMS messages you receive means that after an alarm event has occurred and the first SMS has been sent, you will not receive another message about any subsequent change in status for the same alarm in the time period you select. Once a "Readings OK" message has been sent, a new alarm notification will be sent as soon as it occurs.

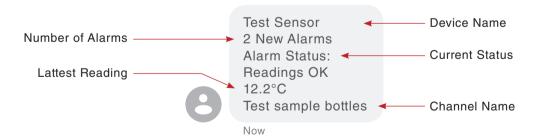
The default time period is 30 minutes; options for 1 hour and 2 hours are also available. If you want to make sure SMS notifications are sent out for every single alarm event, deactivate the feature but also ensure you have enough SMS credits to cover your expected usage.

Step 5: Receive Your SMS Notifications

SMS notifications will arrive in your messages feed, sent by EasyLog.



If the limiting feature is active, instead of multiple notifications, you will receive a summary message for the time period selected. This tells you the number of alarms in that period and the current status, either in alarm or Reading OK.



Care and Maintenance

This section applies to all Everest products. Regular care and maintenance of your appliance will significantly extend service life and dependability. In severe cases, lack of upkeep will contribute to the rapid decline in performance and component health. Care and maintenance is the product owner's personal responsibility. Warranty is void if these guidelines are not met.

- Unplug the unit before cleaning, repairing or replacing parts.
- · Do not spray the unit with water to avoid electric shock, component malfunction or the risk of fire.
- Do not use any flammable cleaning products on or around the unit to prevent the risk of fire.
- Do not use household or industrial chemical cleaners, acidic or chlorine based solutions, degreasers, wire brushes, scrapers, steel pads, acidic solutions, or other abrasive products. These will damage the stainless steel's passivity layer resulting in advanced corrosion.
- The condenser coil and condenser coil air filter build up lint, dust and grease over time and will
 require monthly cleaning. Clogged condenser coil and filters will result in decreased performance,
 advanced component failure, and a risk of fire. See page 26 for condenser coil and filter cleaning
 instructions.
- Conduct regular inspection and cleaning of the door gaskets to ensure that they are sealing completely. Worn out or damaged gaskets will have gaps that will compromise cabinet temperature leading to possible food spoilage or component failure.
- Clean the interior surface of the unit with mild soap and warm water. Do not let water accumulate
 inside the unit. To prevent water damage, wipe the interior of the unit with a dry cloth as needed.
 Do not use steel wool, strong acids, concentrated detergents, bleaches, cleaning waxes, polishers
 and other abrasive cleaners. Avoid contact with electronic parts to avoid the risk of fire.
- Clean the exterior of the product with a stainless steel cleaner to restore the condition and
 passivation of the stainless steel surface. Do not use steel wool, strong acids, concentrated
 detergents, bleaches, cleaning waxes, polishers and other abrasive cleaners. Avoid contact with
 electronic parts to avoid the risk of fire.
- Acidic products and products containing vinegar must be stored in sealed containers to prevent acid damage to the interior of the unit and the evaporator coil. Rust resulting from improper maintenance is not covered under warranty.



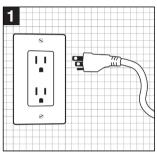
25 Care and Maintenance

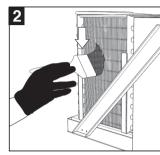
Condenser Coil Cleaning Instructions

* R404A freezer models are equipped with a condenser coil air filter. R290 refrigerator models are not equipped with a condenser coil air filter. If your product is an R290 refrigerator model, you may skip this section.

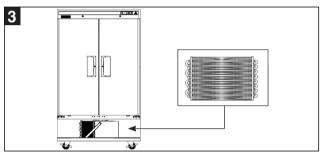
This section applies to all Everest products. The condenser coil requires monthly cleaning to keep the metal fins clear of lint, dust and grease build-up. A clogged condenser coil severely reduces your product's energy efficiency and places strain on the compressor and other components leading to advanced failure. Cleaning the condenser coil is the product owner's personal responsibility.

Warranty is void if the following guidelines are not met.



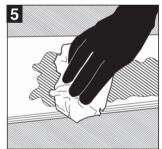


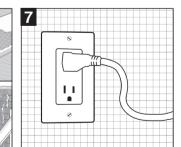
- **1.** Ensure that the unit is disconnected from the outlet before performing maintenance.
- 2. Use a long bristled brush in a vertical sweeping motion to remove lint, dust and debris from in between the metal fins of the condenser coil. Do not apply heavy pressure so as not to bend the fins.



Locate the condenser coil at the bottom section of the unit. Some frames do not have panels for ease of access and ventilation purposes.

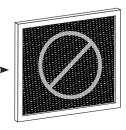






- 4. Use a commercial condenser coil cleaner for metal fins that are coated in grease. Allow the cleaner to saturate the area. Follow the recommended wait time printed on the product packaging.
- 5. The grease and cleaning solvent will pool at the base of the metal fins. Brush the fins and wipe off any accumulated residue.
- **6.** Repeat the above steps until the metal fins are clean. You should be able to see in through and in between the metal fins.
- 7. Reconnect the unit to the specified outlet.

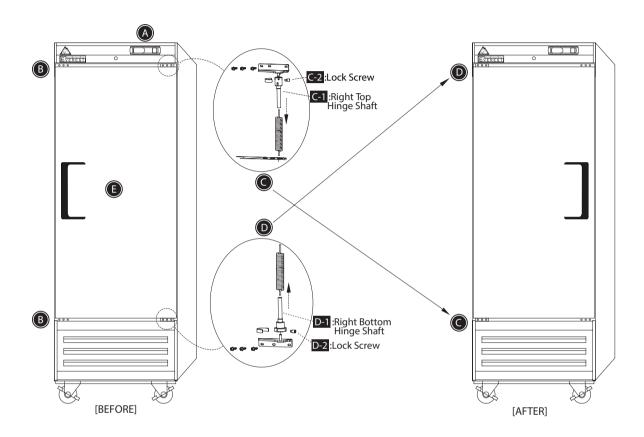
Do not attach an aftermarket filter or screen around the condenser coil. This constricts ventilation which leads to overheating, component failure or the risk of fire.



Care and Maintenance 26

Door Reversal Instructions

Some products have field reversible doors to accommodate specific kitchen layouts. Door reversals must be performed by qualified technicians. A second person is required. Safety goggles must be worn to protect from spinning parts. Warranty is void if the following quidelines are not met.



- 1. The front grill (A) must be opened before reversing the door. Grab the left and right bottom corner of the front grill and pull it towards you. Slightly lift up the front grill until it's top hooks unlock from the frame.
- 2. Locate 3 screws (B) on the top left corner of the door frame and 3 screws (B) on the bottom left corner of the door frame. Remove these screws from the pre-drilled holes. They will be used to mount the door to the left door frame later.
- 3. Locate the door switch tab on the top right door frame ①. The tab is positioned to press on the door switch that controls the interior lights and evaporator fans. Once the door is reversed, the tab must be moved to the same location.
- 4. Locate the door spring shaft on the top right corner of the door c-1. The head of the shaft has 4 screw holes, one of which is occupied by a lock screw that maintains door spring tension c-2. Remove the half ring shaft cap to expose the remaining vacant screw holes.

Door Reversal Instructions (Continued)

- 5. Extra precaution must be taken for the following steps. Release the door tension from the door spring by inserting a sharp pointed implement into one of the door hinge shaft's unoccupied tension lock screws C-2.
- 6. Slowly turn the door spring shaft clockwise until you are able to unscrew the tension lock screw C-2. Remove the tension lock screw.
- 7. Slowly take out the sharp pointed implement inserted into one of the spring shaft's unoccupied tension lock screw holes. When the rigid object clears the hole, the door spring will release the stored tension and the door spring shaft will spin rapidly.
- 8. Follow steps 4 through 7 for the bottom door shaft.
- 9. A second person is required to secure the door against the unit while the top hinge is removed **(E)**.
- 10. Detach the top hinge by removing the 3 screws holding it in place (a).
- **11.** Lift the door until it detaches from the bottom hinge **(a)**. Ensure that the top and bottom springs and shafts remain in the door cavity.
- 12. Detach the bottom hinge by removing the 3 screws holding it in place . Detach the bottom hinge.
- **13.** The right top hinge becomes the left bottom hinge **(a)**. Install the right top hinge into the left bottom position using 3 screws. Ensure that the door hinge pins are facing up.
- 14. Flip the door so that the hinged corners are on the left side when facing the door (6).
- **15.** Mount the door on the bottom door hinge **(a)**. The longer of the two pins pointing upward should be inserted into the bottom spring shaft.
- **16.** A second person is required to secure and hold the door against the unit while the top hinge is installed **(E)**.
- 17. The bottom right hinge becomes the left top hinge **(i)**. Install the left top hinge on the door. The two pins on the door hinge should be facing down and the longer of the two inserted into the top door spring shaft.
- **18.** Secure the top hinge to the unit using 3 screws. Ensure that the door is properly secured to the frame.
- 19. Sufficient tension must be added to the door springs so that it self-closes. Insert 2 sharp pointed implements into the vacant tension lock screw holes (C-1, D-1) and turn the shaft counterclockwise. 2 to 3 rotations should provide sufficient tension.

20. Test the door for proper operation.

Door Reversal Instructions 28

Troubleshooting Guide

In most cases, your Everest product may be exhibiting behavior that is typical of standard operation. Observe the following when troubleshooting symptoms.

'cht' or 'CHt' appears on the LED alternating with the current temperature and accompanied by an audible alarm.

The condenser coil may be clogged with dust, grime or debris. Clean it following the instructions on page 26.

The room's ambient temperature may be higher than 86°F (30°C). Provide ample ventilation or additional cooling to the room or relocate the unit to a larger space with lower ambient temperature.

The unit may be installed in close proximity to heat sources such as ovens, stoves, heaters or direct sunlight. Relocate the unit away from these sources.

The unit may be installed without clearance or proper ventilation. Provide additional exhaust vents and observe the clearance allowance specified on page 3.

The compressor, fan motors or entire system fails to start

The ON/OFF switch may be set to OFF. Turn to the ON position and wait for the LED and motors to show signs of operation.

The power cord may not be connected. Check for proper connection. In cases of damage to the power cord or plug, immediately mark the unit as out of order until the damaged part is replaced.

The outlet may not be sending power or the power supply breaker may be switched off. Unplug the unit and contact a licensed electrician for inspection and/or repairs.

The compressor operates continuously or for prolonged periods.

The condenser coil may be clogged with dust, grime or debris. Clean it following the instructions on page 26.

The door or door gaskets may not be sealing properly. Check if the unit is properly leveled as this will affect the door's self-closing mechanism. Check product placement in the cabinet as it may prevent the door from fully closing. If the gasket is loose, reattach.

The evaporator coil may be blocked with ice. Defrost it following the instructions on page 26. Normally, evaporator coils will self-maintain with automated defrost cycles. If the evaporator coil ices up frequently, re-assess placement of food items in the cabinet as it could obstruct cold air circulation. Food items must not touch the wall or floors of the cabinet and stay within the boundaries of the shelf to prevent blockage of air flow.

The room's ambient temperature may be higher than 86°F (30°C). Provide ample ventilation or additional cooling to the room or relocate the unit to a larger space with lower ambient temperature.

The unit may be installed in close proximity to heat sources such as ovens, stoves, heaters or direct sunlight. Relocate the unit away from these sources.

The unit may be installed without clearance or proper ventilation. This forces the compressor to operate constantly in order to maintain cabinet temperature. Provide additional exhaust vents and observe the clearance allowance specified on page 3.

29 Troubleshooting Guide

The cabinet temperature is too warm.

The condenser coil may be clogged with dust, grime or debris. Clean it following the instructions on page 26.

The door or door gaskets may not be sealing properly. Check if the unit is properly leveled as this will affect the door's self-closing mechanism. Check product placement in the cabinet as it may prevent the door from fully closing. If the gasket is loose, reattach.

The temperature may be set too high. Adjust the setting to 32.0°F (1.7°C) for refrigerators or -4.0°F (-20.0°C) for freezers.

Hot food items may have been placed in the cabinet. Store only room temperature food items.

The room's ambient temperature may be higher than 86°F (30°C). Provide ample ventilation or additional cooling to the room or relocate the unit to a larger space with lower ambient temperature.

The unit may be installed in close proximity to heat sources such as ovens, stoves, heaters, or direct sunlight. Relocate the unit away from these sources.

The unit may be installed without clearance or proper ventilation. Provide additional exhaust vents and observe the clearance allowance specified on page 3.

Food items are frosting over.

The temperature may be set too high. Adjust the setting to 32.0°F (1.7°C) for refrigerators or -4.0°F (-20.0°C) for freezers.

The placement of food items in the cabinet may be obstructing circulation of refrigerated air. This creates uneven temperature in the cabinet with pockets of very cold air that may cause items to frost or freeze over. Food items must not touch the wall or floors of the cabinet and stay within the boundaries of the shelf to prevent blockage of air flow.

Condensation in the interior cabinet.

The door or door gasket may not be sealing properly. Check product placement in the cabinet as it may prevent the door from fully closing. Check if the unit is properly leveled. If the gasket is loose, reattach.

Hot food items may have been stored in the cabinet. The interaction between hot and cold temperatures will promote condensation.

Unsealed or open food items with high moisture content may have been stored in the cabinet. Keep these items in air tight containers.

Mild condensation in warmer ambient temperature conditions may occur due to frequent or prolonged door operation.

Condensation on the unit's exterior surfaces.

Highly humid environments will contribute to the condensation build up on exterior panels. Providing ample ventilation and air movement to a space will reduce the humidity level.

The door or door gasket may not be sealing properly. Check product placement in the cabinet as it may prevent the door from fully closing. Check if the unit is properly leveled. If the gasket is loose, reattach.

Noise level during unit operation.

It is normal for commercial grade compressors and components to have a higher decibel output compared to residential counterparts.

The unit may not be balanced evenly. Poorly leveled units may cause components or fittings to misalign or disengage during operation. This may produce noise as a direct result of repeated surface friction or impact.

The unit may not be securely mounted to the floor. This may produce noise as a direct result of repeated surface friction or impact.

Some sounds are normal for the refrigeration process. A dripping sound, for example, is the result of refrigerant circulation during the compressor rest period.

Troubleshooting Guide 30

Warranty Registration

Registering your new appliance is important. In the unlikely event a safety notification or warranty service is required, we will have the means to contact you. Your completed appliance registration also verifies your ownership in the event of an insurance loss or theft.

You may register online at www.EVERESTref.com or use your smart phone to scan the QR code below:



- 1. Open the camera app.
- 2. Point the camera at the QR code.
- 3. Scan and launch the QR code.

Product Identification:

The product data plate is a permanently affixed label that contains the model, serial, barcode numbers, and refrigeration data of your Everest product. The tag is located on the rear or side of the unit exterior. Please retain this information for warranty-related purposes.



EVEREST REFRIGERATION

Commercial Refrigerators

Assembled in Korea

MODEL: E0MV-36-B-28-S

COMPRESSOR: 1/2 HP REFRIGERANT: R290

* Use of other than specified refrigerant voids warranty REFRIGERANT CHARGE: 3.17 0 z ELECTRICAL: 115 V X 1 P H X 6 0 H Z TOTAL AMPS: 3.27 A (COMP RUN) HIGH PRESSURE TEST: 218 P S I G. LOW PRESSURE TEST: 38 P S I G.

* Do not clean label with solvent

NSF

ETL LISTED
CONFORMS TO
ANSI/UL-471 CERTIFIED TO
CAN/CSA C22,2 NO, 120



Serial No: EOMV-36-B-28-S-XXX



BB1KD0539A

31 Warranty

Warranty Certificate

EVEREST warrants to the first purchaser of every new EVEREST equipment, the cabinet and all parts thereof, to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by EVEREST and upon proper installation and start-up in accordance with the instruction packet supplied with each equipment.

(3) Years Labor & Parts Warranty¹ and (5) Years Compressor Warranty³

Applicable to R-134A, R-404A and R290 Upright Reach-Ins, Glass Door Merchandisers, Undercounters, Chefbases, Prep. Tables, Bar Equipment and Countertop Refrigerated Display Cases shipped from Everest before January 1, 2023.

(2) Years Labor & Parts Warranty¹ and (5) Years Compressor Warranty³

Applicable to R290 Open Air Merchandisers shipped from Everest before January 1, 2023.

(3) Years Labor & Parts Warranty¹, (5) Years Electrical Components Warranty² and (10) Years Compressor Warranty³

Applicable to R290 Upright Reach-Ins, Glass Door Merchandiser Refrigerators, Undercounters, Chefbases, Prep. Tables, Bar Equipment and Countertop Refrigerated Display Cases shipped from Everest from January 1, 2023.

(3) Years Labor & Parts Warranty¹, (5) Years Electrical Components Warranty² and (5) Years Compressor Warranty³

Applicable to R290 Glass Door Merchandiser Freezers shipped from Everest from January 1, 2023.

(2) Years Labor & Parts Warranty¹, (5) Years Electrical Components Warranty² and (5) Years Compressor Warranty³

Applicable to R290 Open Air Merchandisers and Laboratory Refrigerators/Freezers shipped from Everest from January 1, 2023.

¹Labor & Parts Warranty

EVEREST's obligation under the Labor & Parts Warranty is limited to a period of (2) or (3) years from the date of shipment from EVEREST. Any part covered under this warranty that is determined by EVEREST to have been defective within (2) or (3) years from the date of shipment from EVEREST, is limited to the repair or replacement, including labor charges, of defective parts or assemblies. Labor warranty shall include standard straight time labor charges and reasonable travel time, as determined by EVEREST.

² Electrical Components Warranty

EVEREST's obligation under the Electrical Components Warranty is limited to a period of (5) years from the date of shipment from EVEREST. Any electrical component covered under this warranty that is determined by EVEREST to have been defective within (5) years from the date of shipment from EVEREST, is limited to the replacement of the electrical component. Electrical components covered under this warranty are limited to control boards, sensors, defrost heaters, evaporator/condenser fan motors, LED lights & power supplies, and door switches. This warranty does not cover the cost of shipping, labor or other parts.

3 Compressor Warranty

EVEREST's obligation under the Compressor Warranty is limited to a period of (5) or (10) years from the date of shipment from EVEREST. Any compressor or compressor components covered under this warranty that is determined by EVEREST to have been defective within (5) or (10) years from the date of shipment from EVEREST, is limited to the replacement of the compressor or compressor components. This warranty does not cover the cost of shipping, labor or other parts.

Warranty Claims

All warranty claims must be made directly through EVEREST. All claims shall include the equipment model and serial number, proof of purchase, installation date, and all other relevant information. To qualify for an electrical component or compressor warranty claim, the replacement item must have been purchased directly from EVEREST.

Warranty Exclusions

EVEREST's sole obligation under this warranty is limited to the repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes nor authorizes any person to assume obligations other than those expressly covered by this warranty.

Non-Warranty Parts: EVEREST excludes specific parts exposed to normal wear and tear. These parts include, but are not limited to, lamps, gaskets, casters, shelving, pans and airflow guards.

Indirect or Consequential Damage: EVEREST does not warrant economic loss, profit loss, or special, indirect or consequential damages including, without limitation, losses or damages arising from food or product spoilage claims caused by refrigeration failure.

Improper Usage: EVEREST does not warrant component failure and/or other damages resulting from improper usage and/or installation or failure to clean and/or maintain the equipment as set forth in the equipment's user manual. All EVEREST equipment are designed for use in a commercial setting. Warranty is invalid if the equipment is installed in a residence.

Relocation of Equipment for Repairs: EVEREST does not warrant the cost to move an equipment to or from its installed location, disassemble cabinetry or panels built around the equipment for the purpose of performing warranty repair.

Warranty is Non-Transferrable: Warranty is limited to the original purchaser or owner of the equipment. Warranty does not transfer with change of ownership.

Alteration, Neglect, Misuse, Abuse, Accident, Damage During Transit or Installation, Fire, Flood, Acts of God: EVEREST is not responsible for malfunctions due to alteration, neglect, misuse, abuse, accident, damage during transit or installation, fire, flood, storm, and/or other acts of God.

Unauthorized Modification: EVEREST is not responsible for the repair or replacement of failed or damaged components resulting from unauthorized modifications to equipment or the use of non-OEM parts.

Improper Electrical Connections: EVEREST is not responsible for any improper electrical connections resulting from electrical power failure, low or fluctuating voltage, incorrect amperage and the use of extension cords, generators or batteries.

Outside the U.S.: Warranty coverage does not apply to equipment sold or used outside of the United States.

These warranties are exclusive and in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part, and we neither assume nor authorize any other person to assume for us any other obligation or liability in connection with the sale of said refrigeration equipment or any part thereof.











A Step Above The Standard

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www.EVERESTref.com