

Bud-e FRIDGE – USER GUIDE

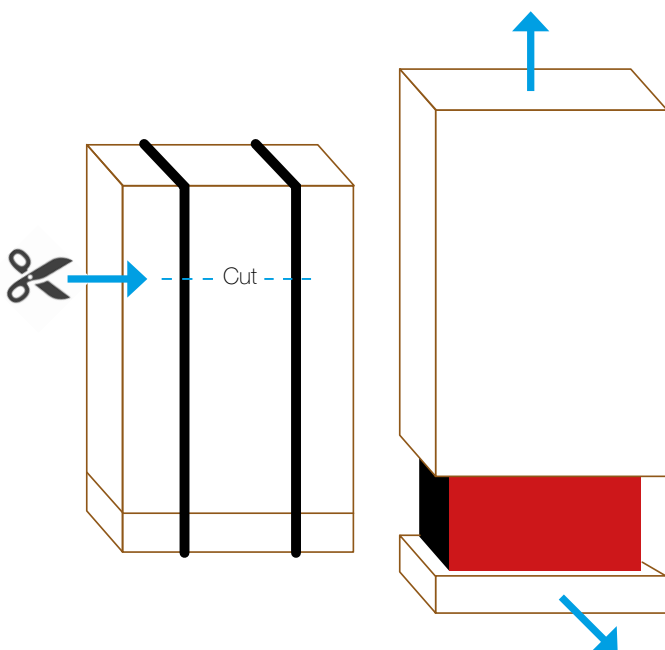
NOTES BEFORE INSTALLATION

1. Allow unit to rest upright in the correct position for **1 hour** before unboxing.
3. Position unit in a well ventilated area and ensure you allow a minimum of **2 inches clear area** around the unit.
4. Do not rest any objects on the top or sides of the unit
5. The fridge requires a **110V US** type power outlet.
6. After turning the fridge on allow it to reach pre-programmed temperature (0°C/32°F) (3 LEDs on) over a **12 hour period**.
7. After this initial period (minimum 12 hours) the fridge setting can be changed to achieve below zero temperatures by illuminating all 5 LEDs's (-1.5°C/-3.0°C) or (29°F/26°F)
8. To ensure the unit can reach below zero temperatures efficiently, please load with cold beer as opposed to room temperature product where possible.
9. It is normal for the sides of the fridge to be warm at times during operation.

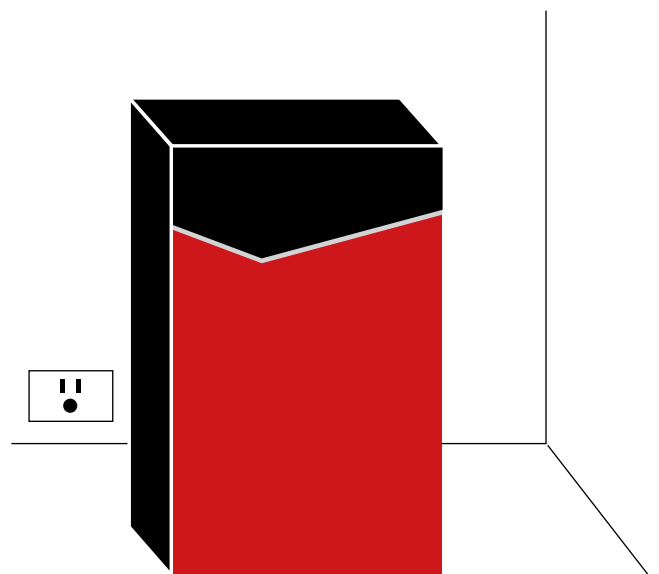
UNBOXING YOUR Bud-e FRIDGE

Move packaged unit to approximate position of installation and allow unit to rest upright in the correct position for **1 hour** before unboxing.

1. Cut the straps and slide the complete cardboard outer upward and off the fridge. Remove the fridge from the packaging base.

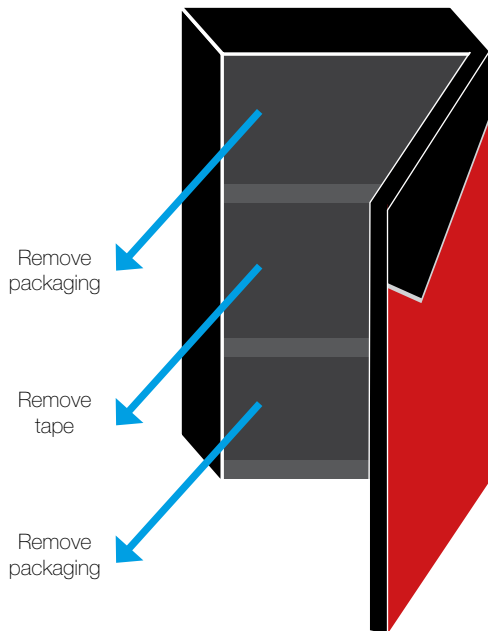


2. Place the fridge in position on a level surface near a **110V power outlet**. Remove any plastic coverings from the fridge

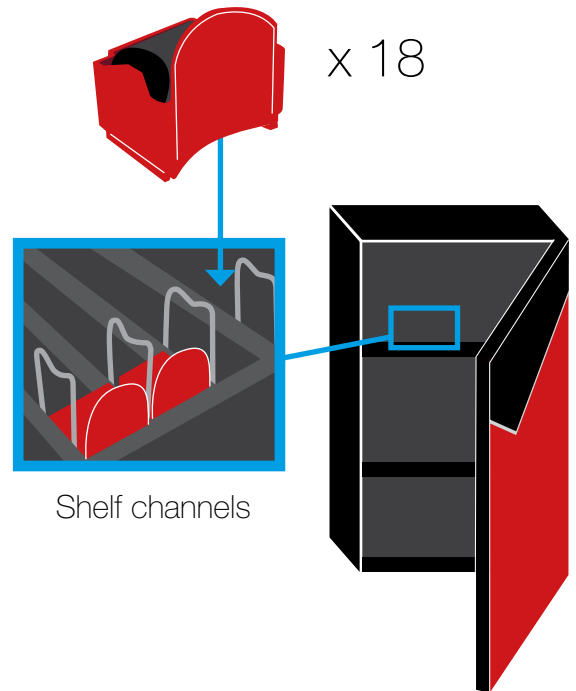


UNBOXING YOUR Bud-e FRIDGE

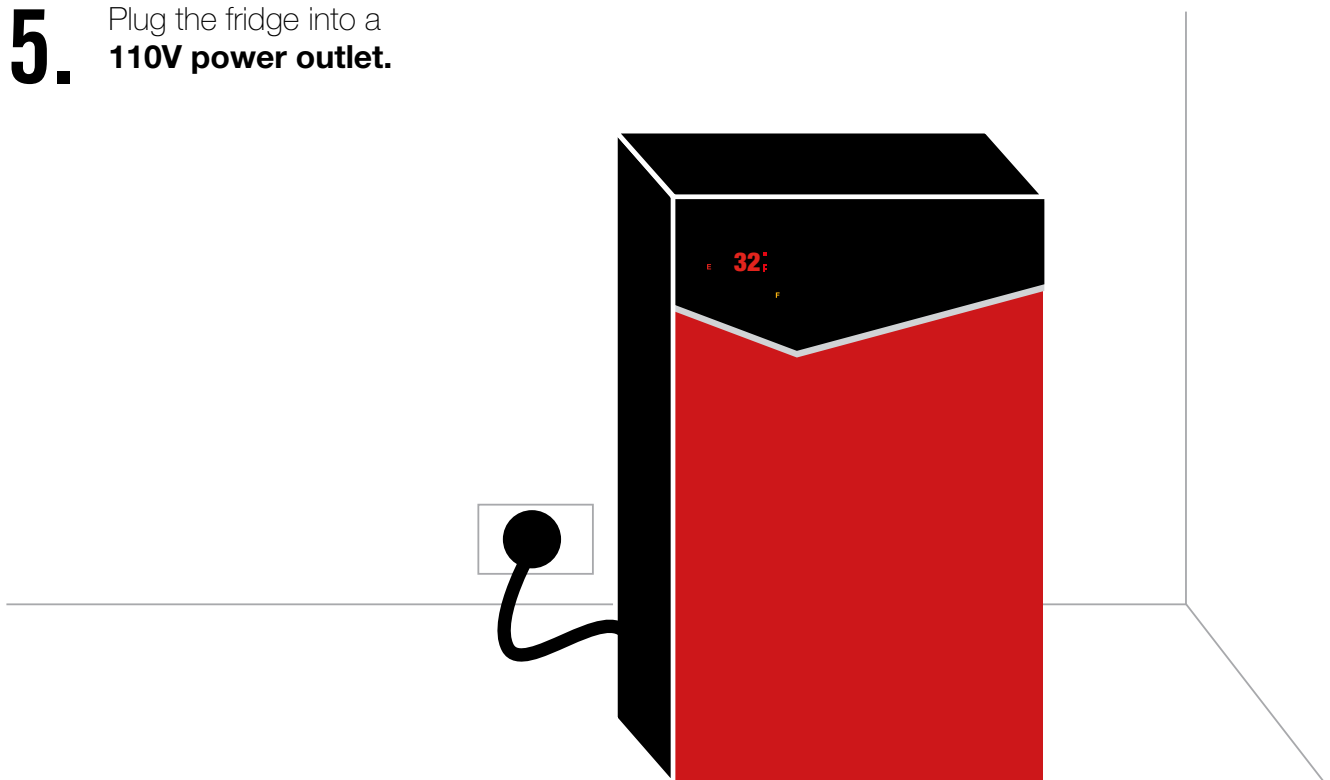
- 3.** Open fridge door and remove all internal packaging and tape.



- 4.** Insert one 'colour roller' per channel ensuring silver magnetic feet are facing down as shown.



- 5.** Plug the fridge into a **110V power outlet.**



Bud-e FRIDGE TEMPERATURE SETTINGS

The fridge has 5 temperature settings*:

1 LED on = 5°C = 41°F

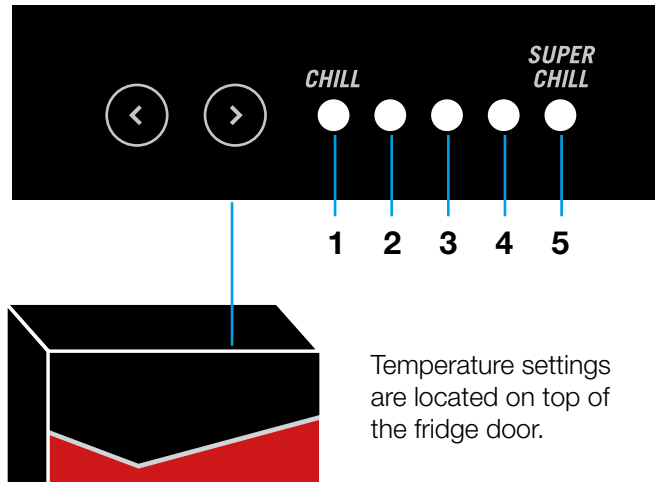
2 LEDs on = 2°C = 35°F

3 LEDs on = 0°C (default) = 32°F

4 LEDs on = -1.5°C = 29°F

5 LEDs on = -3.0°C = 27°F

*Please note these are approximate temperature settings only. Actual temperature may differ depending on stock and environment.

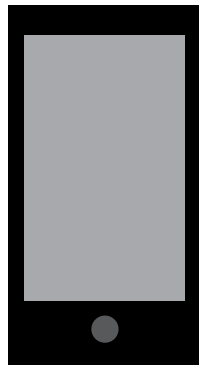


Temperature settings are located on top of the fridge door.

CONNECTING Bud-e TO WI-FI

Before connecting to Wi-Fi you will need

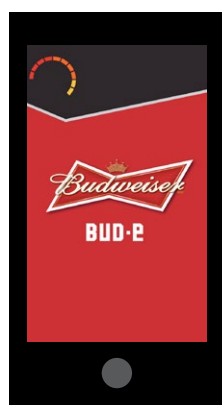
1. An iOS or Android mobile device



2. Wi-Fi router - 802.11b/g/n with broadband internet connection.



3. Download the Bud-e APP and follow on screen prompts to connect



Warning

- This product will not connect to any Wi-Fi networks requiring secondary authentication.
- Make sure your phone is connected to the Wi-Fi network you wish to connect your fridge to.
- For best 'blinkup' results turn your iPhone screen to maximum brightness.
- For best 'blinkup' results do not place fridge in direct sunlight or where there may be bright or flashing lights.

Bud-e WI-FI STATUS LED (top panel)

Wi-Fi LED status

Flashing red = not connected

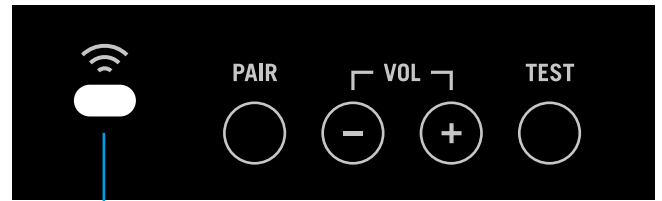
Flashing green = connected successfully

Solid green = updating firmware
(do not unplug fridge during this process)

Flashing amber = has not received any
Wi-Fi settings

Off = normal operation
(the unit is still connected to Wi-Fi)

Note: If the unit loses its Wi-Fi connection the
Wi-Fi icon on the display will also flash red.

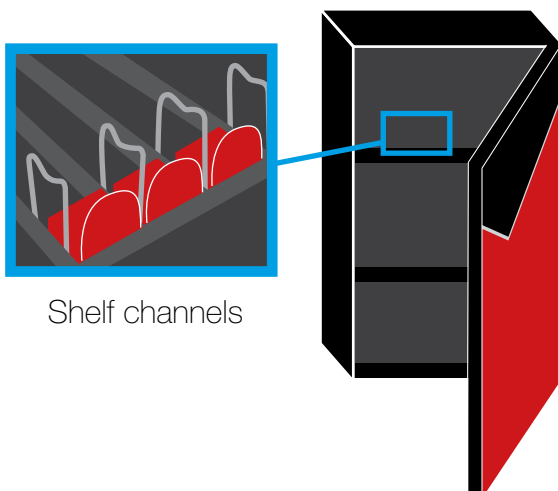


Wi-Fi status LED is
located on top of the
fridge door.

LOADING AND UNLOADING STOCK INTO Bud-e FRIDGE

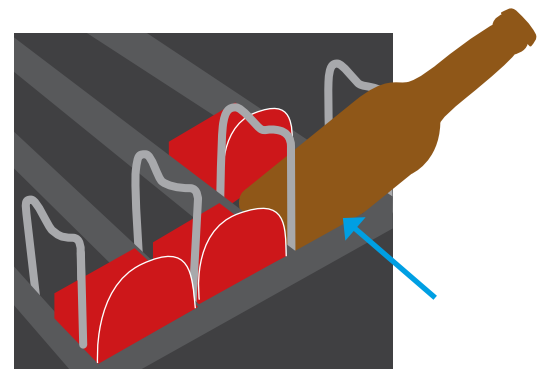
Please note the top two shelves of this fridge are designed for US type 12oz bottles, 12oz cans, or 16oz cans only. **Please note, the bottom shelf is for 12oz cans only.**

1. Make sure there is a 'colour roller' in each channel.



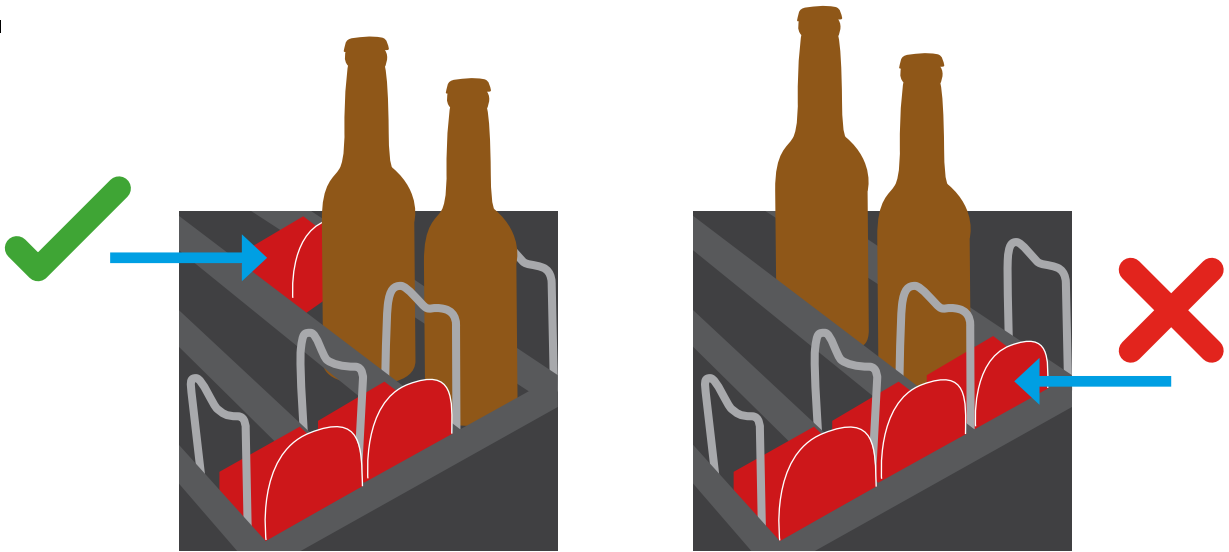
Shelf channels

2. Push base of bottle or can in direction shown making sure it pushes the colour roller further back into the shelf channel.

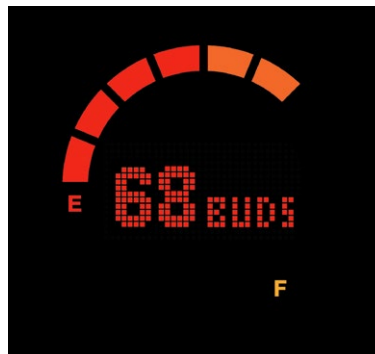


LOADING AND UNLOADING STOCK INTO Bud-e FRIDGE

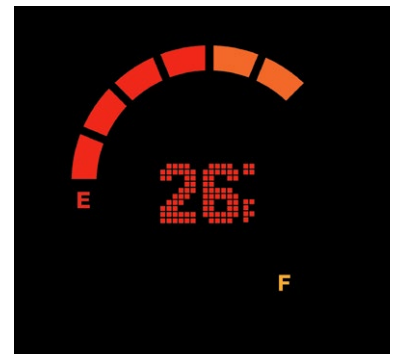
- 3.** Make sure roller is directly behind bottle or can for accurate stock counting.



- 4.** On closing the fridge door the stock levels will be displayed on the door for 5 seconds and then display the current fridge internal temperature.

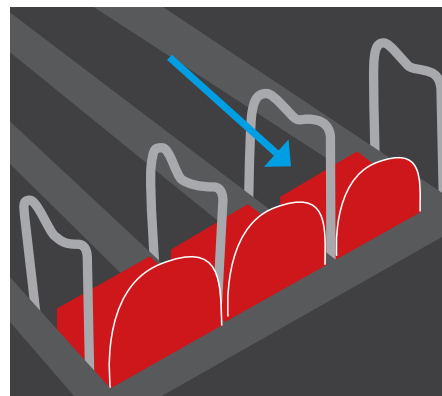


Stock count



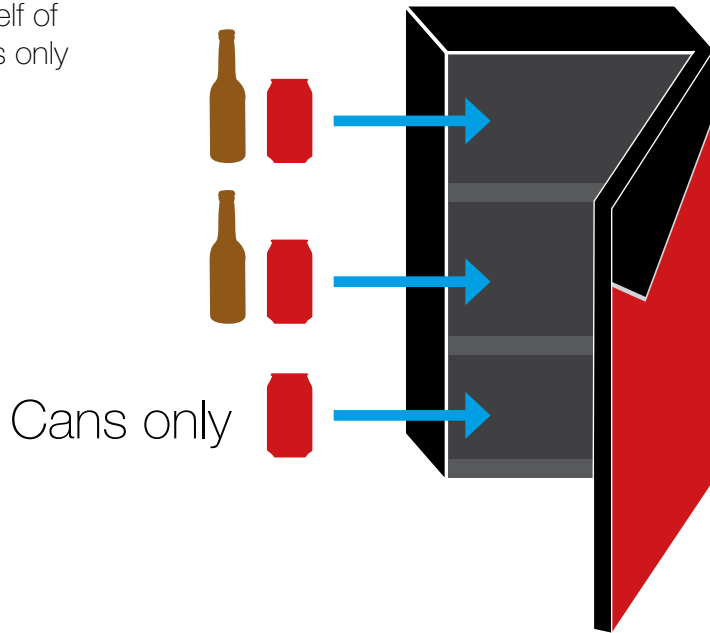
Temperature

- 5.** The colour rollers measure the stock level. When removing beer make sure the colour roller slides as far towards the door as possible.

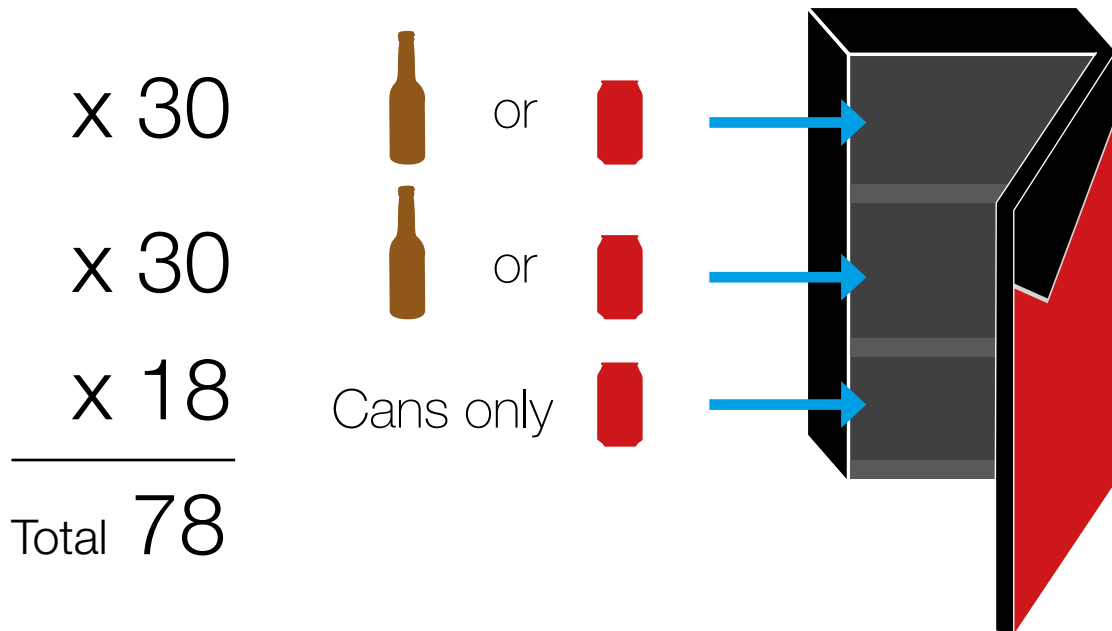


Bud-e FRIDGE STOCK CAPACITY

Please note: The bottom shelf of the Bud-e fridge will hold cans only



The total capacity of the Bud-e fridge is 78 vessels. This will be made up of either all cans or cans and bottles. Total bottle capacity is 60 bottles

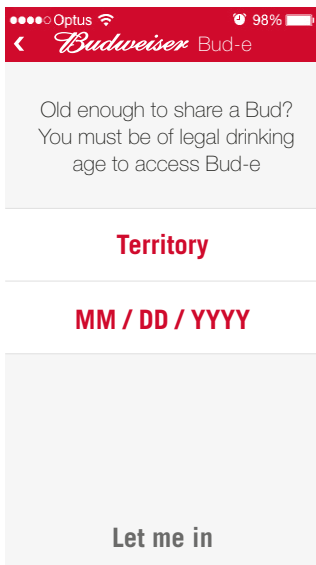


Bud-e APP - Wi-Fi CONNECTION

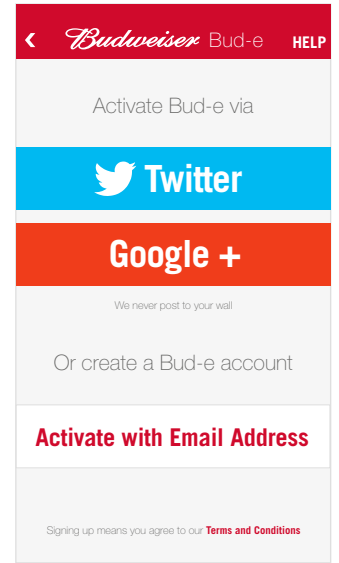
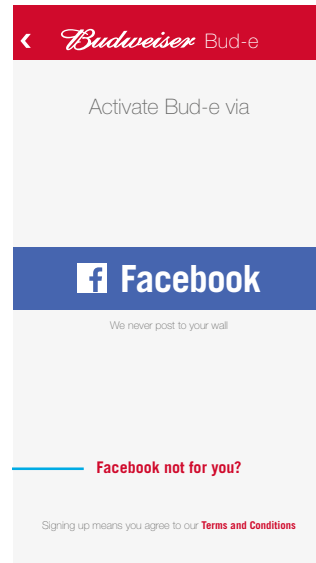
Download the Bud-e APP and follow on screen prompts to connect



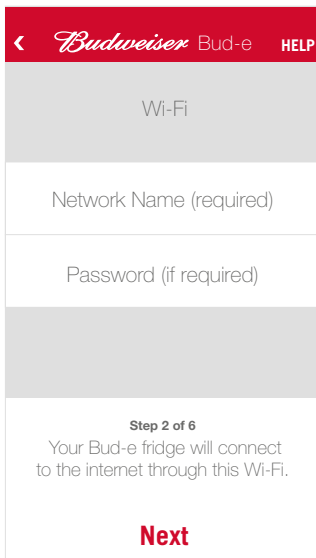
1. Enter territory and date of birth to access the APP. User must be of legal drinking age.



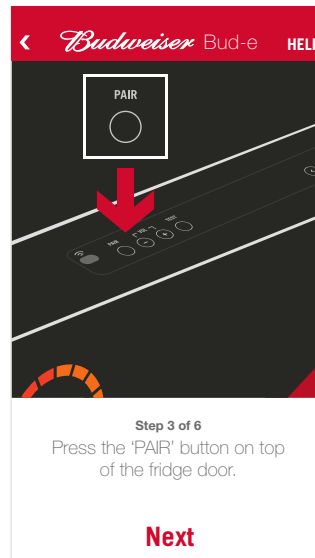
2. Activate account via a social network, or create an account using your email.



3. Enter the Wi-Fi network name. Enter password if required. The fridge will access the internet via this Wi-Fi.

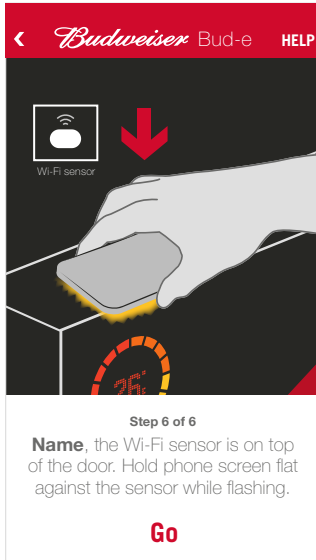


4. Press the pair button on top of the fridge door. This will wake the Wi-Fi sensor for connection.

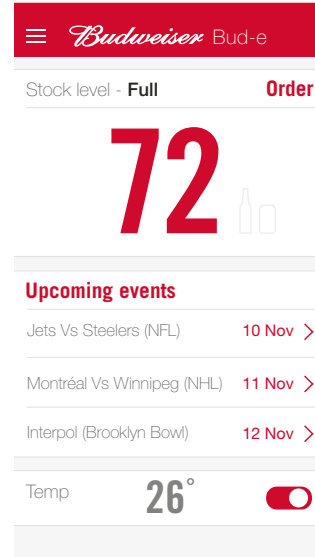


Bud-e APP - Wi-Fi CONNECTION (CONTINUED)

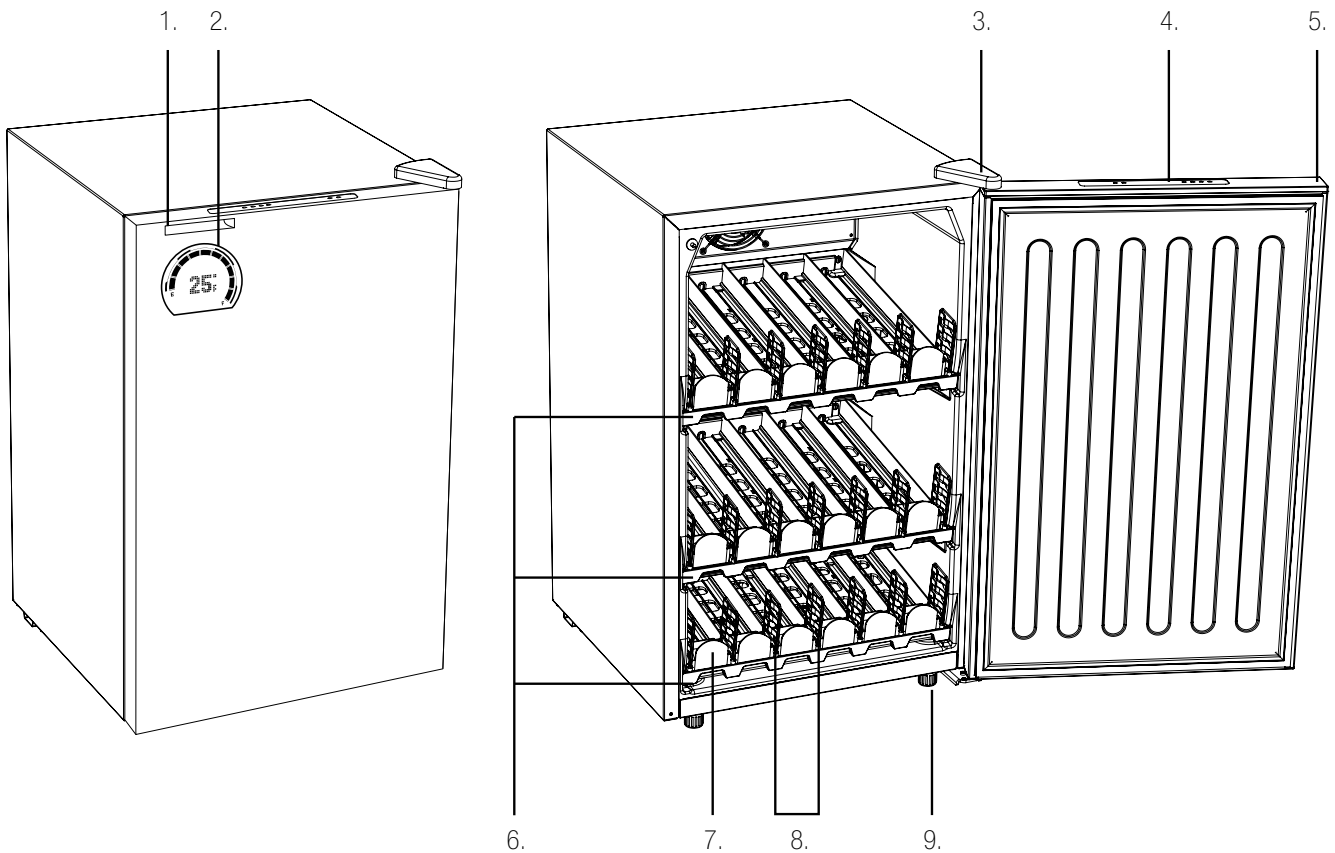
5. When countdown starts, hold the screen of your device flat against the Wi-Fi sensor until the screen stops flashing.



6. Once connected, the app will display real time stock count and temperature of the fridge.



Bud-e FRIDGE - OVERVIEW



- 1. Speaker
- 2. Display
- 3. Door hinge

- 4. Control panel
- 5. Door
- 6. Shelves (x3)

- 7. Shelf roller (x18)
- 8. Shelf gates (x21)
- 9. Front feet
(x2 adjustable)

Bud-e sounds/alerts

Bud-e has a set number of sounds that will alert you to different events.

- A. Adding stock
- B. Pressing the pair button
- C. Pressing any function button on the control panel

- D. End of cold countdown
- E. Door open
- F. Full fridge
- G. Power on



A Test Lab Techno Corp.

Changan Lab : No. 140 -1, Changan Street, Bade City, Taoyuan County, Taiwan R.O.C.
Tel : 886-3-271-0188 / Fax : 886-3-271-0190

MPE Report



Test Report No.	: 1302FS12
Applicant	: LITE-ON TECHNOLOGY CORP.
Manufacturer	: electric imp, inc.
Product Type	: imp
Trade Name	: electric imp
Model Number	: IMP002
Date of Received	: Feb. 05, 2013
Test Period	: Mar. 08, 2013
Date of Issued	: Mar. 13, 2013
Test Specification	: 47 CFR § 2.1091 47 CFR §1.1310 ANSI / IEEE Std.C95.1-1992 H46-2/99-237E
Location of Test Lab.	: Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full. This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp.
4. This document may be altered or revised by A Test Lab Techno. Corp. personnel only, and shall be noted in the revision section of the document.

Approved By : Yung-Tan Tsai Tested By : Bill Hu
(Yung Tan Tsai) (Bill Hu)



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1. Description of Equipment under Test (EUT)

Applicant	LITE-ON TECHNOLOGY CORP.			
Applicant Address	4F, 90, Chien 1 Road, Chung Ho, Taipei Hsien 235, Taiwan, R.O.C.			
Manufacturer	electric imp, inc.			
Manufacturer Address	5050 El Camino Real, STE 221, Los Altos, CA94022, USA			
Product Type	imp			
Trade Name	electric imp			
Model Number	IMP002			
FCC ID	PPQ-IMP002			
IC	4491A-IMP002			
Frequency Range	IEEE 802.11b / IEEE 802.11g / 802.11n 2.4GHz (20MHz): 2412 ~ 2462 MHz			
Transmit Power (AVG. Conducted Power)	IEEE 802.11 b: 0.037 W / 15.74 dBm IEEE 802.11 g: 0.019 W / 12.89 dBm IEEE 802.11n 2.4GHz (20MHz): 0.014 W / 11.61 dBm			
Antenna used	Manufacturer	Model Number	Antenna Type	Antenna Gain
	MAGLAYERS SCIENTIFIC-TECHNICS	EDA-8709-2G4R2-A37	External Antenna	2.00 dBi
	Lite-On Technology Corp.	none	PIFA Antenna	2.86 dBi
Temperature Range	-30 ~ +70°C			

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 & 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties



2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR §1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons." This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna.

Note: For evaluated 2G system, the transmission power P + G should be consider duty cycle.



3. RF Output Power

Band	Data Rate	CH	Frequency (MHz)	Conducted power (dBm)		Worst Case
				Avg.	Peak	
IEEE 802.11b	1 M	01	2412	15.40	19.24	<input type="checkbox"/>
		06	2437	15.54	19.26	<input type="checkbox"/>
		11	2462	15.74	19.32	<input checked="" type="checkbox"/>
IEEE 802.11g	6 M	01	2412	12.66	22.31	<input type="checkbox"/>
		06	2437	12.82	22.51	<input type="checkbox"/>
		11	2462	12.89	22.56	<input checked="" type="checkbox"/>
IEEE 802.11n 2.4GHz (20MHz)	6.5 M	01	2412	11.40	22.13	<input type="checkbox"/>
		06	2437	11.41	22.20	<input type="checkbox"/>
		11	2462	11.81	22.25	<input checked="" type="checkbox"/>

4. Test Result

Band	Data Rate	Frequency (MHz)	Limit (mw/cm ²)	Distance [R] (cm)	Tune-up power [P] (dBm)	ANT Gain [G] (dBi)	[P]+ [G] [TP] (W)	Duty Cycle	[TP] with duty cycle (W)	Power Density [S] (mw/cm ²)	Min. distance (cm)
IEEE 802.11b	1 M	2412	1.000	20	18.00	2.86	0.122	1	0.122	0.024	20cm
		2437	1.000	20	18.00	2.86	0.122	1	0.122	0.024	20cm
		2462	1.000	20	18.00	2.86	0.122	1	0.122	0.024	20cm
IEEE 802.11g	6 M	2412	1.000	20	15.50	2.86	0.069	1	0.069	0.014	20cm
		2437	1.000	20	15.50	2.86	0.069	1	0.069	0.014	20cm
		2462	1.000	20	15.50	2.86	0.069	1	0.069	0.014	20cm
IEEE 802.11n 2.4GHz (20MHz)	6.5 M	2412	1.000	20	14.25	2.86	0.051	1	0.051	0.010	20cm
		2437	1.000	20	14.25	2.86	0.051	1	0.051	0.010	20cm
		2462	1.000	20	14.25	2.86	0.051	1	0.051	0.010	20cm

Note 1: The Power [P] is max tune-up power (upper limit).

Note 2: For mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

Note 3: The device evaluated by worst case antenna (2.86dBi) and max tune-up power.