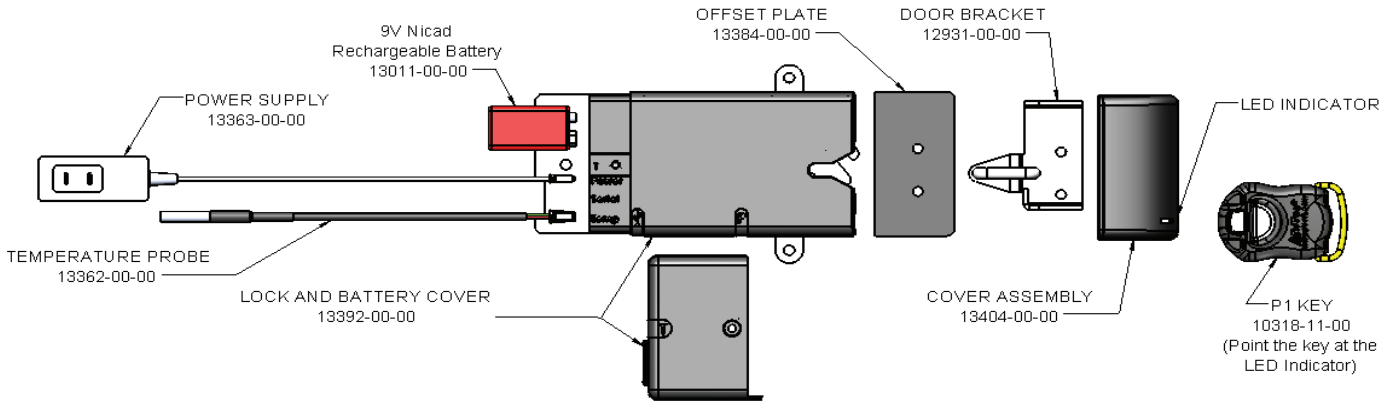
BEVERAGE-AIR®

OPERATING INSTRUCTIONS
for all
MarketMax® IQ Single Door Locks



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Operating Instructions for MarketMax® IQ Single Door Locks

WELCOME

Upon receipt and setup of your MarketMax unit, the lock system should be tested as follows to confirm full functionality.

SPECIFICATIONS:

Primary Power: 120 AC -12V DC 500mA UL Certified wall converter

Back Up Power: 9V NiCad rechargeable battery

Test Button: For Health Department to confirm proper locking function

Cooler Protection Temperature: 41F or greater for 30 minutes

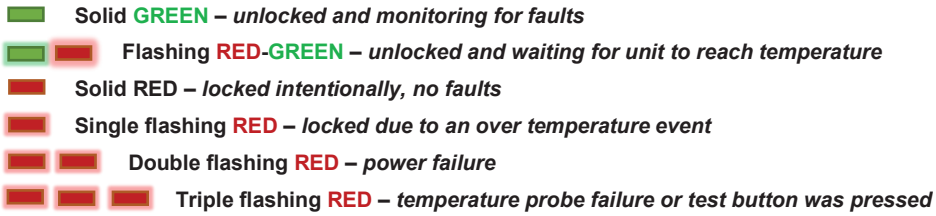
Freezer Protection Temperature: 0F or greater for 30 minutes

Refill Cooler Timer Extension: 45 minutes

Refill Freezer Timer Extension: 90 minutes

Primary Power Loss: Automatically locks in 2 minutes, continues monitoring and automatically unlocks if power is restored before a protection locking event occurs

LED Indicators:



Solid GREEN – *unlocked and monitoring for faults*

Flashing RED-GREEN – *unlocked and waiting for unit to reach temperature*

Solid RED – *locked intentionally, no faults*

Single flashing RED – *locked due to an over temperature event*

Double flashing RED – *power failure*

Triple flashing RED – *temperature probe failure or test button was pressed*

FUNCTIONAL TESTING AT NORMAL OPERATING TEMPERATURE

To be completed with the unit at normal operating temperature, with the locked plugged in and the rechargeable battery installed.

Wait for a minimum of 30 minutes for the unit to cool down and to charge the battery before proceeding. The LED should be solid green before proceeding.

If the door is locked, use the P1 key fob to unlock it by pointing the key fob at the lock LED and pressing the center button of the key fob. When the GREEN LED lights, the lock is unlocked and the unit is at normal operating temperature.

If the LED is flashing RED-GREEN, this indicates that the unit is unlocked and has not reached normal operating temperature.

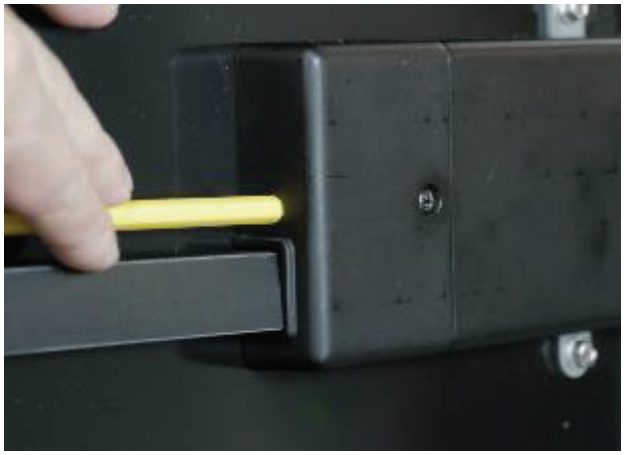
Note: If the lock does not function as indicated in the test instructions below, refer to the Troubleshooting Guide.

DOOR BRACKET ENGAGEMENT

Locking the unit: Close the door and point the P1 key fob at the lock LED and press the fob button.
Confirm the LED is solid RED and the door is locked. If the door is not locked, the alignment could be faulty. Refer to the lock installation instructions.

Unlocking the unit Point the P1 key fob at the lock LED and press the fob button.
Confirm the LED is solid GREEN and the door is unlocked.

HEALTH DEPARTMENT TEST PROCEDURE



With the door closed, insert a pencil or a thin non-metallic tool into the test button hole.

Press and hold the test button in for 5-7 seconds.

The door should be locked and the RED LED should be triple flashing.

Point the P1 key fob at the lock LED and press the fob button.

Confirm the door is unlocked and the LED is solid green.

POWER LOSS TEST

Unplug the power supply or/and the unit from the power outlet. Wait approximately 2 minutes, and confirm the door is locked and the RED LED is double flashing.
Plug the power supply and the unit back into the power outlet. Confirm that the LED is solid GREEN and the door is unlocked.

OPTIONAL - FUNCTIONAL TESTING AT OPERATING TEMPERATURE

It is recommended that the unit is less than 41°F average for a cooler, and less than 0°F for a freezer and the LED is solid green.
Open the unit door to evacuate the cold air (with the compressor running or turned off). Confirm the unit locks and the LED single flashes RED within 15-30 minutes. Close the door. The test is successful if the door locks. Use the P1 key to open the lock and confirm the LED is flashing RED-GREEN. Confirm the door is unlocked.
Wait for a minimum of 30 minutes for the unit to cool down before putting in service.

REFILL INSTRUCTIONS

During a re-fill event, after closing the door use the P1 key to lock and unlock the unit, and the health timer will be extended an additional 15 minutes for coolers, 60 minutes for freezers.

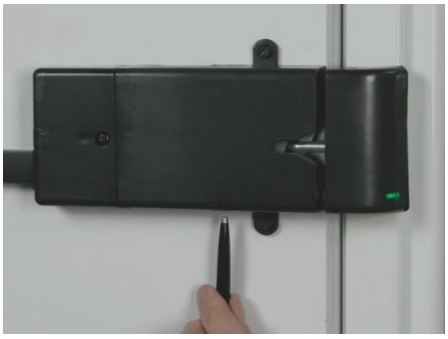
BATTERY REPLACEMENT

Replace the 9V rechargeable battery every 2 years as a precaution. When the battery is replaced, it is recommended that the unit is retested per the above instructions to confirm operation.

DO NOT REPLACE THE BATTERY WITH STANDARD ALKALINE BATTERY!

PROGRAMMING A NEW KEY-FOB

1. Lock the lock using the current key-fob
2. Unlock the lock using the key fob
3. Press the program button for 5 seconds as shown
4. Point the new keyfob at the LED light and press the center button
5. The LED will flash green when the new key fob is programmed
6. Test the new key by locking and then unlocking the lock



TROUBLESHOOTING GUIDE

Lock Condition	LED State	Cooler/Freezer Condition	Problem	Possible Cause	Action
Locked	Solid GREEN	Warm	Faulty component	Probe or lock failure	Replace probe or lock
Locked	Solid GREEN	Cold	Unit should be unlocked	Lock misaligned or failed	Check alignment of lock or replace lock
Locked	Solid RED	N/A	Don't know why unit is locked	Unit locked by key-fob	Use P1 key fob to unlock
Locked	Solid RED or flashing RED	N/A	Key fob does not unlock unit	Incorrect key-fob	Locate correct key fob to unlock
Locked	Flashing RED	N/A	Fault	Fault detected	Find fault
Locked	Flashing RED	N/A	P1 key used to unlock but within 5 seconds unit re-locks	Temperature Probe or Power Supply	Replace defective component
Unlocked	Solid GREEN	Warm	Faulty component	Probe or lock failure	Replace probe or lock
Unlocked	Solid GREEN	Cold	None		None
Unlocked	Solid RED	N/A	Unit should be locked	Locked by using the P1 key for but door should be locked	Use P1 key fob to unlock, check alignment o lock or replace lock
Unlocked	Flashing RED	N/A	Unit should be locked	Fault detected	Find fault, check the alignment of lock or replace the lock.
Locked	Flashing RED-GREEN	N/A	Unit should be unlocked	Cooler or freezer is warm	Make sure cooler or freezer is on and wait for it to cool down, Check alignment of lock or replace the lock.
Unlocked	Flashing RED-GREEN	Warm	None	Cooler or freezer temperature is above normal	Make sure cooler or freezer is on and wait for it to cool down
Unlocked	Flashing RED-GREEN	Cold	Lock not detecting cold temperature	Lock or temperature probe problem	Wait 1 hour for cooler or freezer to cool down below 40F for cooler, 0F for freezer, if LED still flashes RED-GREEN replace temperature probe or lock
N/A	Not Lit	N/A	Lock failure or no power	Power supply, battery, or lock failure	Replace defective component

Certifications: NAMA 2013 “Standard for Sanitary Design and Construction of Food and Beverage Vending Machine” and US Public Health Service “Food Code 2009”