FUNCTION CODES

CODE	FUNCTION	EXPLANATION
F0	Time Set	Enter time with the UP and DOWN buttons, Press the Settings button to move to the next item. Set in order: year, month, day, hour, minute.
F1	Maximum Dispense Time	**Max Ice Dispense Time**: 20sec (1-20sec, set in 0.1sec increments) **Max Water Dispense Time**: 10sec (1-25sec, set in 0.1sec increments)
F3	Automatic Ice Dispense Control	**(Operating Ice-Only Dispense)** Once the button is sent out signal is detected, even if it's a sign of release, Solenoid and Auger are activated for a set amount of time OFF, At01 – At "F1" Adjust the set solenoid to the maximum operating time.
F4	Initial Drain Function	**(First time operating in ice-making mode)** 1st and 2nd digits (Drain time): 30 seconds (5-99, set in 1sec increments) **(Water supply operation to high water level after drainage)** 3rd and 4th digits (# of repetitions): 1 time (oF-9 times) ***Function is not performed in "OFF" state.**
F5	Automatic Drain Function	(Works in ice-making mode) 1st and 2nd digits (Drain time): 30sec (oF-99, set in 1sec increments) 3rd and 4th digits (Drain interval): 1.0hr (0.5-9.5hrs, set in 0.5hr increments) ***Does not perform the function in the "OFF" state.**
F6	Ice and Water Dispense Time for "Ice-and-Water"	1st and 2nd digits (Ice Dispense Time): 5sec (1-F1(max setting), set in 1sec increments) 3rd and 4th digits (Water Dispense Time): 3sec (1-F1(max setting), set in 1sec increments)
F7	UV Lamp Lighting Time (when not in use)	1st and 2nd digits (UV Lamp Lighting Time): 3min (1-99min, set in 1min increments) 3rd and 4th digits (UV Lamp Off Time): 1hr (1-9hrs, set in 1hr increments)
F8	Auger Operating Time Alarm Settings	A._1.0 10,000hrs use warning (adjustment: 0.1-9.9) If you press the increase button under the above conditions. Go to the items below be adjustable by pressing the mode button E._1.1 Time Use Warning (11,000hrs); (0.1=1000hrs)
F9	Auger Operation Time	Displayed in years, months, days, and hours (adjustment: 0.3sec interval). Continue to flow to the above conditions and indicate Auger operation time expressed in hours.
F10	Temperature Scale	Use to set temperature of unit in Celsius or Fahrenheit.
F11	Temperature Sensor Settings	Dipswitch 3 on – Evaporator Inlet Temperature display, continuous refresh per 1sec. Dipswitch 3 off – Condenser temperature indication, continuous refresh per 1sec. Water sensor disconnected or shorted, displayed as off and all operations stopped. Press the setting button on the above item to display the high temperature setting mode "H" (Temperature range: 50-100˚ C adjustable) Press the setting button again to display the low temperature setting mode "L" (Temperature range: 0-50˚ C adjustable). Press the setting button again to move to item F12
F12	EVA Output Temperature	Continuous refresh per 1sec. When sensor disconnected or shorted, displayed as off and all operations ceases.
F13	Ice and Water Mode Operation	Select how ice and water are dispensed when using "Ice and Water" function: Select "A" to dispense one after the other: Ice will dispense, then water will be dispensed. Select "B" to dispense both ice and water simultaneously.
F14	Check Count of Cleaning Functions	0-255 Times (Performing a Forced Drain Function increases the Cleaning Count) Reset with the IOW switch set to "OFF", press, within 1sec, with the reset button on the PCB in initialize. Can be checked upon re-entry after initialization.
F15	Auger and Wash Reset Count	1st and 2nd digits: Shows the Auger reset count. 3rd and 4th digits: Shows the Wash reset count. Reset will be carried out when IOW switch is set to "OFF" and only shows the number of times it has been reset. Can be checked upon re-entry after initialization.
F20	Function Not Used	N/A

ERROR CODES

DISPLAY	ERROR TYPE	CAUSE	ACTION	RELEASE	OPERATION
Er01	Evaporator Temperature Error	When the Evaporator Temperature is 0˚ C or more, 30 minutes after making ice.	Check for refrigerant leakage. Check sensor for connection abnormality.	Resupply power after resolving cooling problem.	Ice Production Stops
Er03	Evaporator Temperature Error	When the Evaporator temperature is over -1˚ C after 10 minutes has passed.	Check for refrigerant leakage. Check sensor for connection abnormality.	Resupply power after resolving cooling problem.	Ice Production Continues
Er06	Temperature Sensor Error	Occurrence: When EVA OUT(F12) temperature sensor is broken (All operations will be stopped, and the “water” dispensing mode will be activated).	Check sensor and attachment abnormality.	Start Ice Operation after sensor repair or replacement.	Ice Production Stops
Er07	Temperature Sensor Error	Occurrence: When COND OUT(F11) temperature sensor is broken (All operations will be stopped, and the “water” dispensing mode will be activated).	Check sensor and attachment abnormality.	Start Ice Operation after sensor repair or replacement.	Ice Production Stops
Er13	High Pressure Switch Error	Dust on Condenser, fan motor failure, cold cycle abnormality, etc.	Remove dust, check fan motor, check for abnormal cold cycle	Automatic return after action	Compressor stops and motor stops after operating 10 seconds.
Er14	High Pressure Switch Error	Occurs when High Pressure Switch is OPEN 3 times or more	Contact service representative	Start operation after action.	Compressor stops and motor stops after operating 10 seconds.
Er15	Water Supply Error	When Water level is not detected by the water level sensor due to no water supply for 120 seconds.	Water supply pressure check. Water level sensor check.	Start operation after action.	Ice Production Stops
Er16	Water Level Sensor Error	At the start of ice making, when the upper and lower limits are not detected by the water level sensor for 60 seconds.	Replacement of Water Level Sensor	Start operation after action.	Ice Production Stops
Er20	Cover Error	When the Hopper Cover is open.	Close the Hopper Cover	Start operation after action.	Dispensing Disabled

TROUBLESHOOTING INDEX

1. No Power, Panel not Lit

Possible Reason	Solution
Power Cord Disconnected	Ensure the power cable is properly plugged into the wall power outlet.
Tripped GFCI	Reset GFCI outlet.
Blown Fuse	Check Fuse on the PCB.

2. Not Producing Ice

Possible Reason	Solution
Cold Thermistor Fault	Replace Cold Thermistor.
Compressor Failure	Check temperature of compressor and report your readings to technical support.
Auger Failure	Inspect Auger for obstruction, scale, power.

3. No or Low Flow of Water

Possible Reason	Solution
Source Water Turned Off	Make sure the source water feed is turned on.
Clogged Filter	Check flow individually from each filter to ensure flow. Replace any filter with reduced flow.
Solenoid Clog or Failure	Check dispense solenoids for proper function. May need to be disassembled to remove blockage, or replaced if failed.

4. Overfill of Reservoir

Possible Reason	Solution
Mechanical Float Failure	Check function of fill float in back of unit. When the float lifts, it should choke water flow to zero. If not, replace.

5. Operation Sensors are Unresponsive

Possible Reason	Solution
Power Failure	Check power at outlet, and check fuse on the back of unit.
Sensor Failure	Ensure sensor has not disconnected from PCB. Ensure front panel protective film has been removed from the unit. If sensor is still unresponsive, replace them.

6. Filtration

It is recommended using RO where possible and almost always if TDS from the tap is greater than 150 PPM. For an RO to work properly it is very important that the following variables are addressed and performed properly.

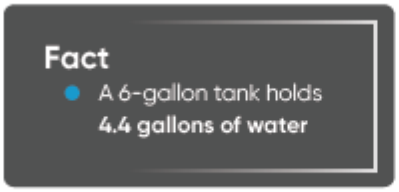
- Incoming Water Pressure: RO's require 60-70psi to work properly.
- Lower PSI will cause the reduction in TDS to suffer greatly, as well as the recovery rate.
    - 60psi results in (roughly) 7.3oz/min from 80GPD membrane.
    - 40psi results in (roughly) 2-3oz/min from 80GPD membrane.
    - 60psi results in (roughly) 98% reduction of TDS from the RO
    - 40psi results in (roughly) 80-85% reduction of TDS from the RO
    - Example:
        - 500 Tap TDS at 98% reduction = 10TDS product water
        - 500 Tap TDS at 85% reduction = 75TDS product water
        - 500 Tap TDS at 80% reduction = 100TDS product water
        - With the mineral add back filter a high concentration of calcium will negatively impact the amount of scale that will, as a result, negatively impact ice systems.
    - When using a bladder, this is much more susceptible to manifesting itself as a problem.
        - As the bladder pressure pushes back on the filter, lower pressure will reduce recovery even beyond the above stated levels and will be unable to properly fill the bladder.
        - This will also result in burning through pre filters as it will take much more water to make little product water.
    - Signs of this issue in gravity fed tanks will be manifested mostly through form of taste complaints, in this system it will manifest itself as running out of water prematurely.

Solutions for Low Water Pressure:

- Add a Booster Pump
- Use Carbon Filtration (be sure to remove the mineral add back filter)

Bladder Tanks:

- It is important that the right size bladder tank be used in conjunction with sufficient flow.
- It is ALSO important that the bladder tank be set to the correct pressure.



- Increasing air pressure will reduce the water capacity while also increasing water pressure
- Decreasing air pressure will increase the water capacity while also decreasing water pressure
- With no air the water tank will be full, but there will be no pressure to release water

Bladder Tank Water Pressure Changes

Bladder tanks have fluctuating water pressure as they empty. This may impact the flow rate going to the system as the tank is depleted.

- The amount of bladder tanks, filter banks feeding the bladder, pressure, and if a booster pump are needed must all be considered for install requirements. No two accounts are the same and usage will greatly impact the decision. If you have a large bladder tank installed and you have reports of no water, please revert to the above section on how to check to see if water flow is an issue.
- For large usage account with larger bladders, it may be necessary to have additional filter banks to improve the recovery time.
  - Please note that when doing this a booster pump may become necessary even if there a tap pressure of 60psi.
  - Failure to take this into consideration may cause the bladder to ineffectively fill due to pressure drop with multiple units in line which mainly manifests itself as the larger bladder tanks get closer to filling
  - This will also result in burning through pre filters and using a lot of water that will ultimately be just sent down the drain

Please see below for recommended air pressure that should be in the bladder depending on size of the bladder.

Size	Part Number	Size	Recommended Air Pressure
4 Gallon	EQGENE-0004	11" (Diam.) x 14" (Height)	6-7 psi
14 Gallon	EQGENE-0014	15" (Diam.) x 23" (Height)	6-7 psi
20 Gallon	EQGENE-0020	16" (Diam.) x 29" (Height)	7-10 psi
32 Gallon	EQGENE-0032	21" (Diam.) x 28" (Height)	7-10 psi
44 Gallon	EQGENE-0044	21" (Diam.) x 37" (Height)	10-15 psi
85 Gallon	EQGENE-0085	26" (Diam.) x 45" (Height)	10-15 psi
120 Gallons	EQGENE-0120	26" (Diam.) x 60" (Height)	10-15 psi