



Iron Mountain Refrigeration & Equipment, LLC
ECS-180 Temperature Control Manual

Thank you for your cooler purchase. Your digital temperature controller should **arrive pre-set to factory standards**. This manual is provided to assist with any small changes you may wish to make. If you are experiencing any issues with the function of your cooler, we are available for support at service@ironmountainrefrigeration.com or by phone at 833-734-8880.

Your cooler is designed to maintain a temperature range with a high and low setting. When the high temperature is reached, the compressor will start and run until the low temperature is reached. Setting the high and low too close may cause ice build up and compressor failure.



Setting your Preferred Temperature

1. Hold "Set" for 5 seconds until the controller displays "St".
2. Press "Set" and use "up" or "down" button to select temperature set point. (This must fall between the settings for Low and High temperature as explained in the parameter section next).
3. Press "Set".



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Accessing the Parameter Menu

4. Hold **"Set"** for 5 seconds until the controller displays **"St"**.
5. Press **"up"** button and controller will display **"Po"**.
6. Press **"Set"** again and **"00"** is displayed.
7. Press **"up"** until you reach **"55"**. (This is a password, not a temperature setting)
8. Press set to return to **"Po"** and enter parameters.
9. Use **"up"** and **"down"** buttons to find the desired code.
10. Press **"Set"** and use **"up"** and **"down"** buttons to change.
11. Press **"set"** again to return to the menu. To change another parameter, use **"up"** and **"down"** buttons to find the desired code.
12. The controller will exit parameter settings automatically after 30 seconds without use.

Temperature Setting Codes

The manufacturer recommends a differential of 5-6 degrees, 35 as a low temperature and 40/41 as a high temperature. To change this, you will need to change BOTH the differential and the temperature settings.

Parameter Code	Setting	Recommended
C1	Temperature differential	6
C5	Low Temperature	35
C6	High Temperature	41

Defrost Settings

Defrosting is pre-set to occur at regular 6-hour intervals for 25 minutes. There is a 2-minute delay after defrosting to allow the water to drip into the evaporation tray before the compressor and fan will start again. To manual put your cooler into defrost, press the **"defrost"** button for 3 seconds. This will also cancel a defrost in progress. To change the defrost settings, follow the steps to enter the parameters as shown above.

Parameter Code	Setting	Pre-Set
d4	Defrost Interval	6 hours
d6	Maximum Defrost Time	25 min
d8	Drip Delay after Defrost	2 min



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Flashing E2 Error

IF you see the code "E2" flashing on your controller, there has likely been a problem causing the controller to activate the evaporator sensor. This feature is factory set to disabled and can be reset by following this procedure:

1. Hold "**Set**" for 5 seconds until the controller displays "**St**".
2. Press "**up**" button and controller will display "**Po**".
3. Press "**Set**" again and "**00**" is displayed.
4. Press "**up**" until you reach "**55**".
5. Press set to return to "**Po**" and enter parameters.
6. Scroll up or down to find the code "**d1**". Press "**Set**" and change to "**00**".
7. Press "**set**" again to return to the menu. The controller will exit parameter settings automatically after 30 seconds without use.

If this does not clear the error, please contact us.

Converting between Fahrenheit and Celsius

It is possible to change the controller from Fahrenheit to Celsius, but the change requires **each parameter to also be reset individually**. This change will result in an "**E2**" error.

1. Hold "**down**" button until "**H0**" is displayed.
2. From F to C: Press "**down**" button until "**H6**" is shown. Press "**defrost**" button. "**dr**" is shown to confirm change.
OR
From C to F: Press "**down**" button until "**H7**" is shown. Press "**defrost**" button. "**dr**" is shown to confirm change.
3. Hold "**set**" until "**St**" is shown. Press "**set**" again and adjust up or down to preferred low temperature.
4. **Follow the instructions above to reset each parameter and cancel the error.**