

# Installation Instructions

## MT Series Firmware Installation

Bulletin AE01B-A0559-001

Rev. F

This document provides instructions for updating firmware on the MT series dehydrator products.

### Notice:

The installation, maintenance or removal of dehydrator systems requires qualified, experienced personnel. Commscope installation instructions have been written for such personnel. Dehydrator systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

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### Tools required:

Phillips Head Screw Driver #1

Laptop/PC

9/16" Open End Wrench

Connection Cable - USB2.0-USBMini



.100" spacing Jumper (eg. Digi-Key part number 530153-2-ND or similar)



Download and install Putty from <http://www.putty.org/>

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### Installation steps:

1. Go to <https://www.renesas.com/us/en/software/D3017334.html> and download the latest flash development toolkit. V4.09 upgrade 3.
2. Install the program following the directions from the developer.



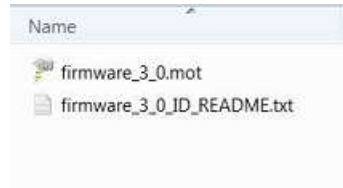
se 03 Upgrade

03. For details of this pr

Contents of the revision can be checked in Tool News.

For supported MCUs, refer to Available MCUs for Flash Development Toolkit V4.xx R

3. Create a folder on the laptop and download the files from the Commscope website.
  - a. Ensure both files are downloaded in the same folder.



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4. Remove dehydrator from service
  - a. Turn power off (switch is located on rear or top of chassis).



- b. Disconnect power cord.



- c. Close shut-off valve(s) in output tubing if installed.
  - d. Disconnect tubing from output port(s).



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5. Locate dehydrator in an area that allows free and safe access around the dehydrator to remove the main cover.
6. Using a Phillips Head screw driver, remove the screw securing the main cover.



- a. Retain the screws for reattaching the cover
- b. Set the cover to the side

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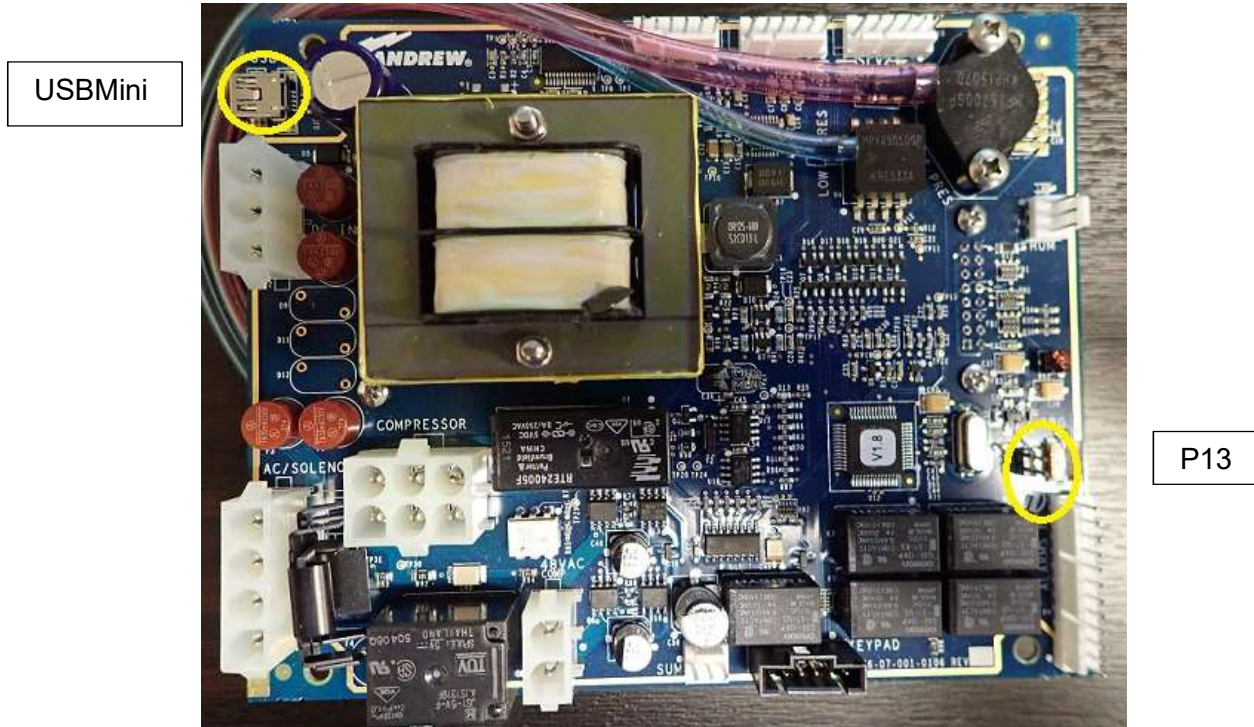
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7. Locate the USBMini port and the Jumper port (P13).



8. Install the .100" jumper to P13.



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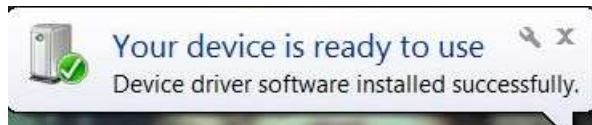
9. Connect the PC to the control board using the USBMini cable.



10. Reconnect the power and turn the unit on.



11. When you power up the unit the PC will automatically recognize the control board.



12. Once the unit is fully recognized open the Flash Development Toolkit V4.09 Basic through the start menu.



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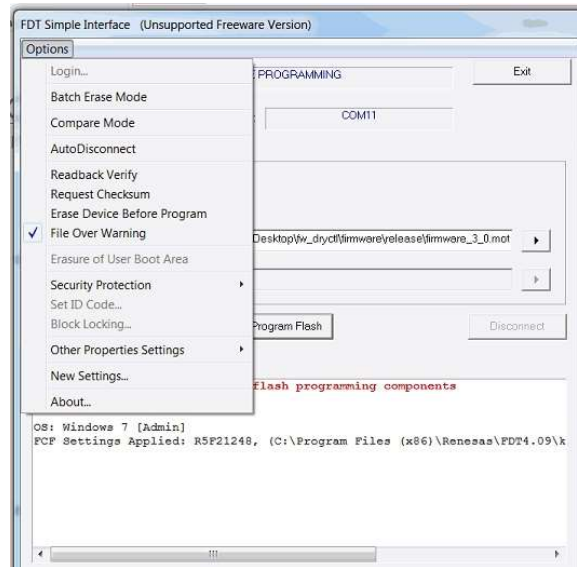
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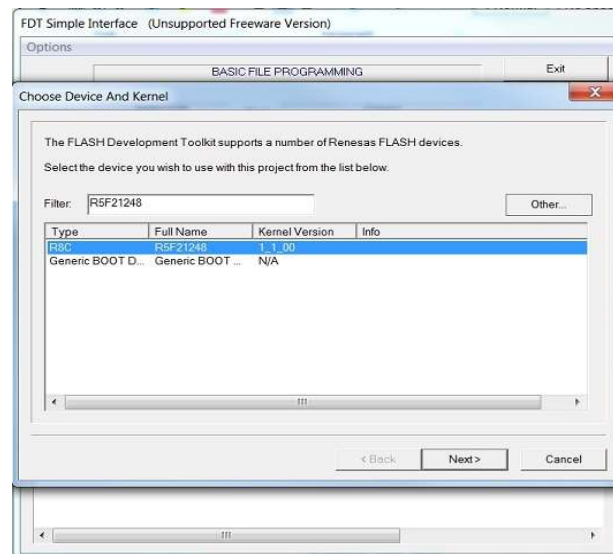
Bulletin AE01B-A0559-001

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13. After the program starts click on “Options” then “New Settings”



14. From the list, choose file name “R5F21248” about 80% down the list. Click “Next”.



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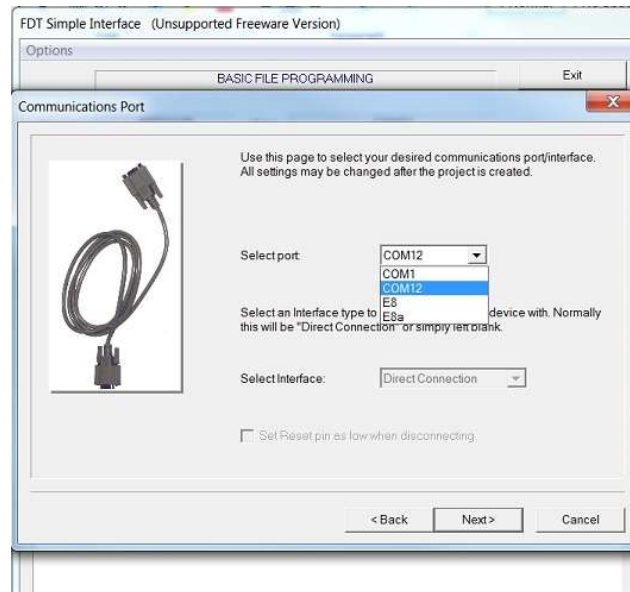
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15. Choose the virtual comport from the drop-down list. It should be Com3 or Com4 for the first time you load firmware, click “Next”. The Com Port will increase with the number of boards that are flashed.



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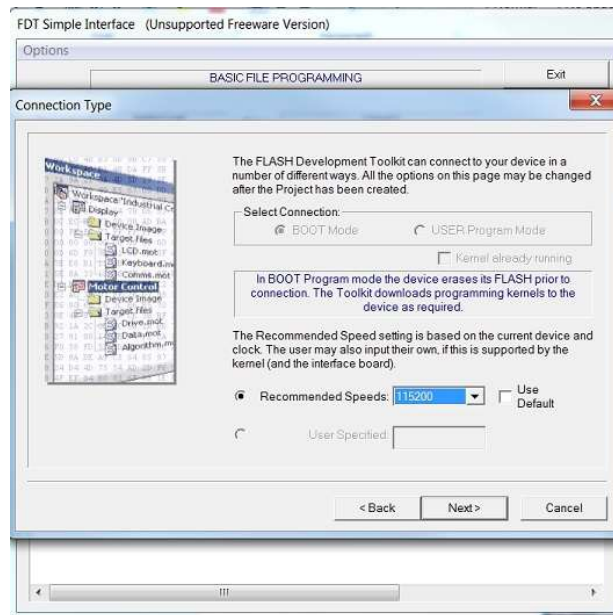
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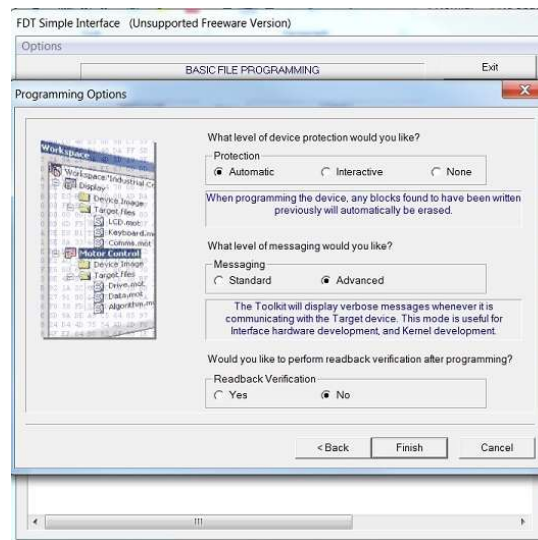
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16. Uncheck the “Use Default” box; select 115200 from the drop-down list for the Recommended Speed; click “Next”.



17. Click “Finish”. There are no changes to this screen.



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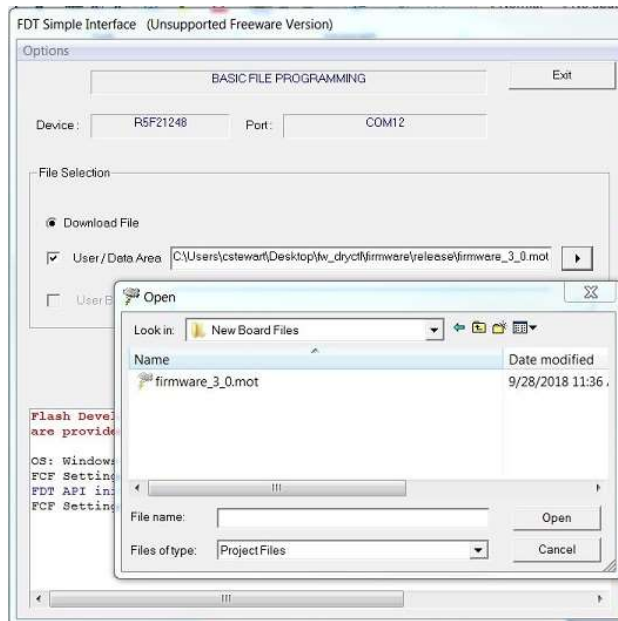
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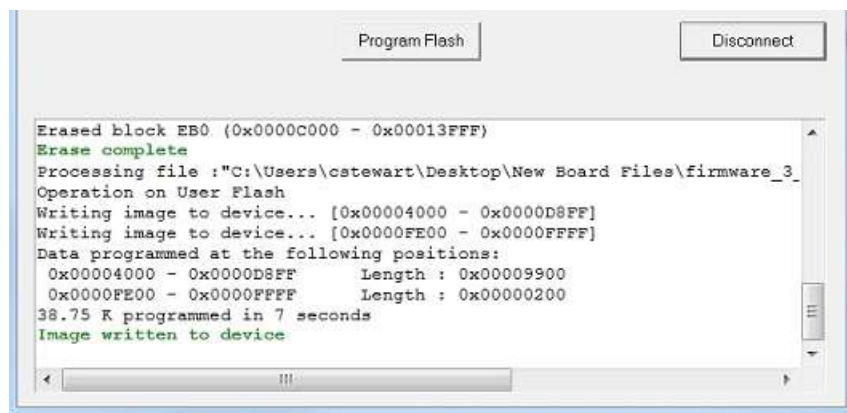
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18. Check the box that says User/Data Area; click the arrow button to the right of the empty box and select “Browse”. Select file “firmware 3.0.mot” that is in the folder that was downloaded from the Commscope website.



19. Click the “Program Flash” button. This could take a few minutes to load completely. There will be a message stating “Image Written to Device” after it is done.



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20. Click the “Disconnect” button after it has written to the board.

```

Operation on User Flash
Writing image to device... [0x00004000 - 0x0000D8FF]
Writing image to device... [0x0000FE00 - 0x0000FFFF]
Data programmed at the following positions:
0x00004000 - 0x0000D8FF      Length : 0x00009900
0x0000FE00 - 0x0000FFFF      Length : 0x00000200
38.75 K programmed in 7 seconds
Image written to device
Disconnecting
Disconnected
  
```

21. Power the unit off.



22. Remove the “Jumper” from the dehydrator that was installed in step 8. **The MT050C requires the tank to be completely drained before the initial power up.** Turn the power back on paying attention to the initial screen to verify that the firmware has changed to v3.0.



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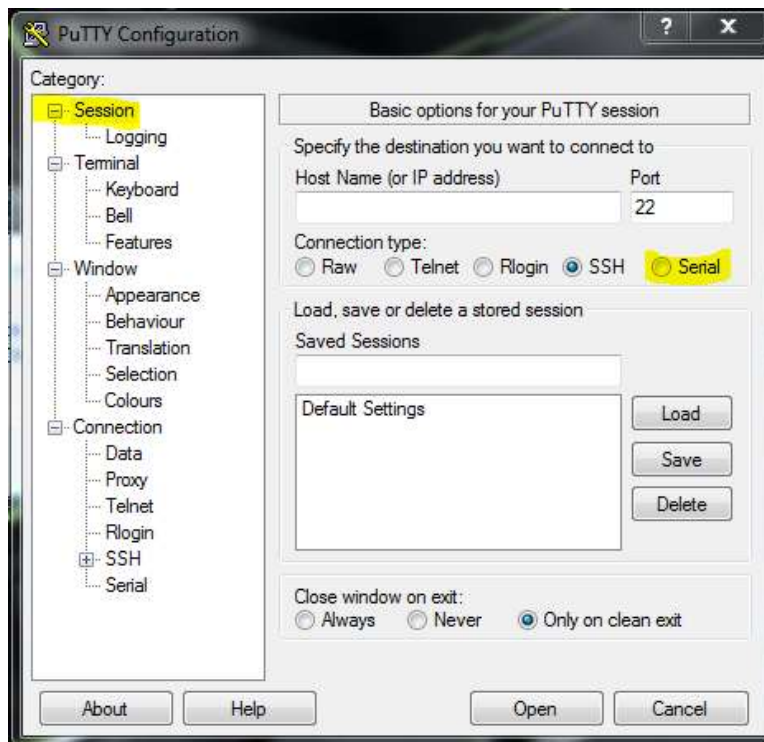
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23. Leave the USBmini cable plugged in.



24. Click on the Putty icon.

25. Click on Session then Serial.



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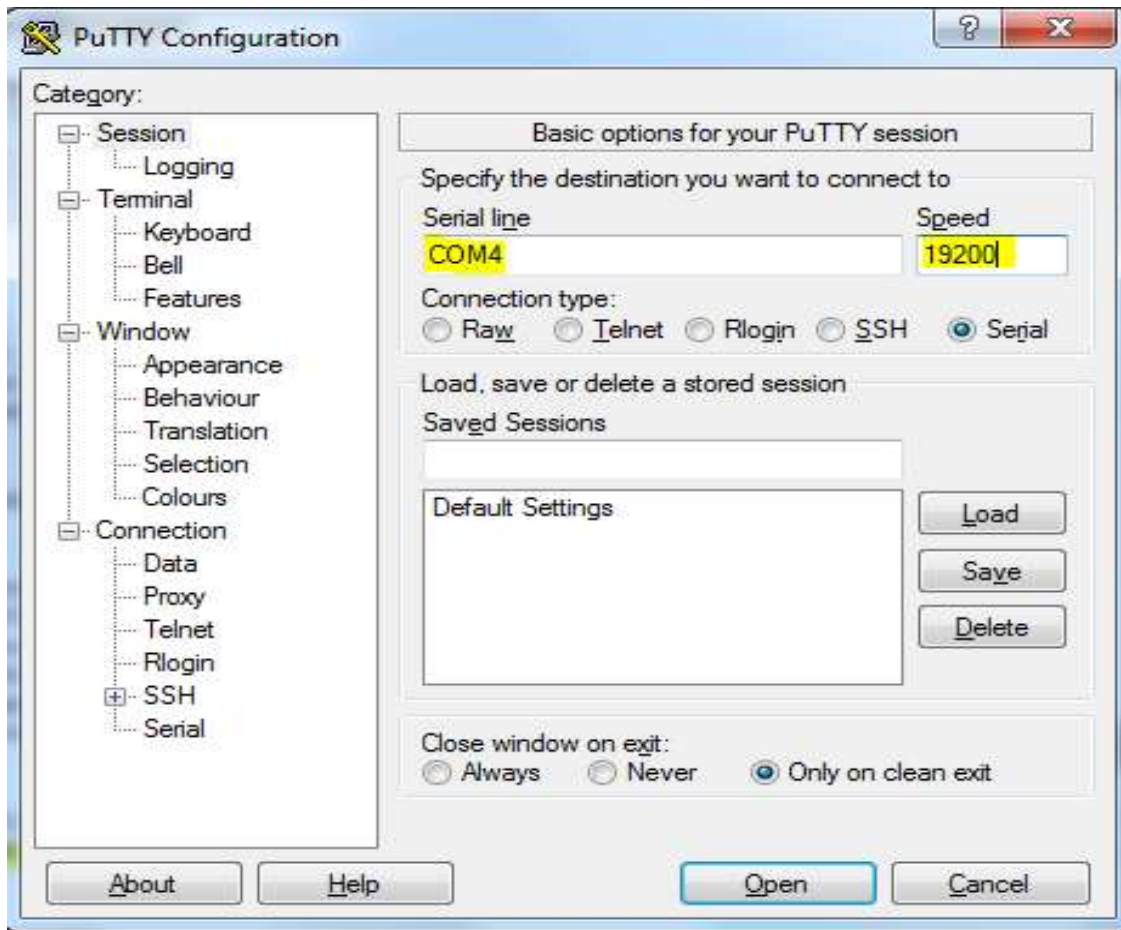
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26. Using the same COMPort from step 15, log it in the Serial line in Putty and change the Speed to 19200.



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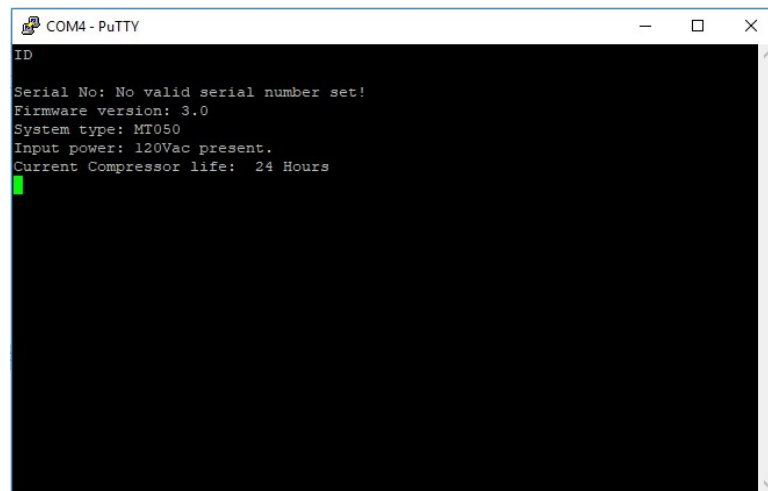
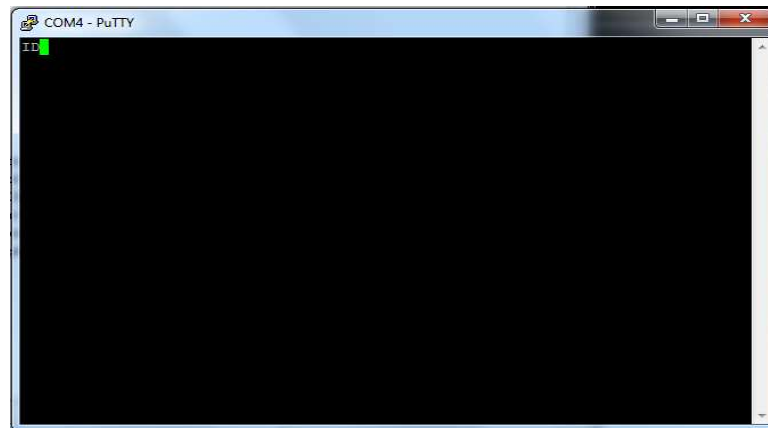
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27. Next click on the “OPEN” button. A blank screen will pop up.
- Type in “ID”. This will display the basic info of the unit. This will also verify that the dehydrator is correctly connected the PC.
  - Any information typed in PUTTY must be in **CAPITAL LETTERS**.



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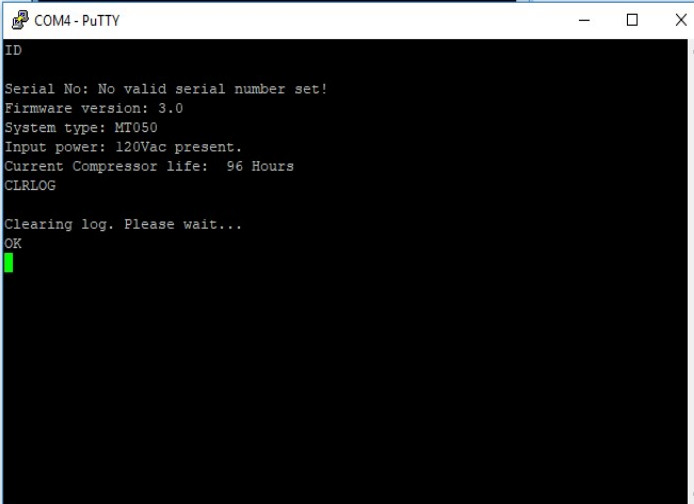
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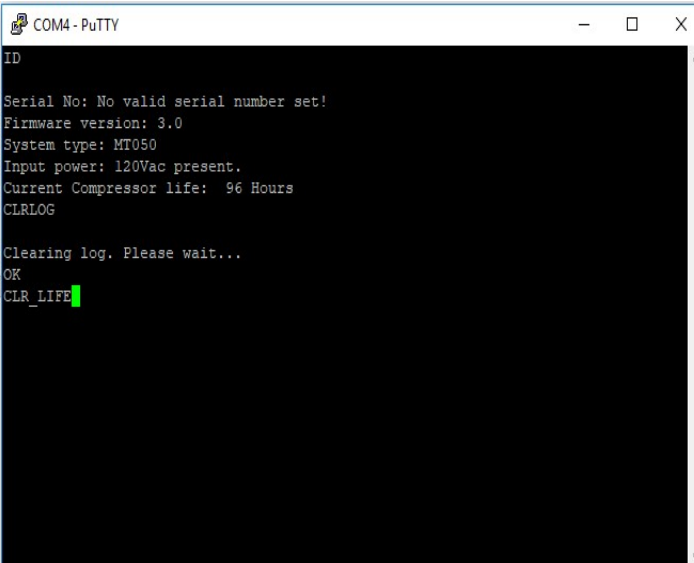
28. To reset the LOG type “CLRLOG”.



```
COM4 - PuTTY
ID
Serial No: No valid serial number set!
Firmware version: 3.0
System type: MT050
Input power: 120Vac present.
Current Compressor life: 96 Hours
CLRLOG

Clearing log. Please wait...
OK
█
```

29. To clear the compressor LIFETIME type “CLR\_LIFE”.



```
COM4 - PuTTY
ID
Serial No: No valid serial number set!
Firmware version: 3.0
System type: MT050
Input power: 120Vac present.
Current Compressor life: 96 Hours
CLRLOG

Clearing log. Please wait...
OK
CLR_LIFE █
```

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30. Cycle the power using the power switch located on the back of the unit for the EV-8 to be cleared off.
31. Scroll through the log using the VIEW LOG and the ARROW KEYS on the Dehydrator.
32. Please note that it is common to see EV-6 in the log. This is notification that the log has been cleared.
33. Turn the unit off.
34. Remove the USBMini cable from the dehydrator.
35. Reattach the cover. Using the screws removed in step 6.
36. Reinstall dehydrator in original location:
  - a. Reconnect tubing to output port(s)



- b. Reconnect power cord.



- c. Open shut off valve(s) if installed
37. Power the dehydrator back on.

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