Manual Supplement

Manual Title:	7380 User's Guide	Supplement Issue:	**4**
Part Number:		Issue Date:	9/22
Print Date:	January 2013	Page Count:	3
Revision/Date:			

This supplement contains information necessary to ensure the accuracy of the above manual.

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FLUKE®
Calibration

Change #1, 529

On page 12, under the **Environmental Conditions**, replace the 1st and 2nd bullets with:

- temperature range: 5 °C to 35 °C (41 °F to 95 °F)
- ambient relative humidity: maximum 80 % for temperatures <31 °C decreasing linearly to 50 % at 35 °C

Change #2, 640

On page 32, under ***8.5.2 Important Refrigerant Information***, change:

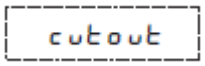
From: R-507

To: R-410A

Change #3, A121

On page 41, under ***9.7 Cutout***, replace **9.7.1 Cutout Reset** with:

If the over-temperature cutout is triggered then the temperature display will flash:



Indicates cutout condition

The message continues to flash until the temperature is reduced and the cutout is reset.

To access the reset cutout function press **SET**.

Note

If the bath is still in the over-temperature fault condition, the display continues to flash "cutout". The bath temperature must drop a few degrees below the cutout set-point before the cutout can be reset.

Access cutout reset function

The display indicates the reset function.

Cutout reset function

Press **SET** again to reset the cutout.

Reset cutout

The Cutout is reset and the display shows the set temperature function. To return to showing the temperature press **EXIT**.

On page 41, under ***9.10 Cutout***, replace the 2nd paragraph with:

If the cutout is activated because of excessive bath temperature, power to the heater is shut off and the bath cools and the display flashes "cutout". The display continues to flash between the actual temperature and "cutout" until the temperature falls below the reset temperature and the cutout is reset.

On page 45, replace ***9.11.1 Hard Cutout***, with:

9.11.1 Hard Cutout

This parameter sets the calibration of the over-temperature cutout. Hard Cutout is not adjustable by software but is adjusted with an internal potentiometer. This parameter is set at the factory.

On page 56, under ***Maintenance*** replace the last bullet with:

- The over-temperature cutout should be checked every 6 months to see that it is working properly. To check the user-selected cutout, follow the controller directions in Section *9.7, Cutout*, to set the cutout. Set the bath temperature higher than the cutout. Check to see if the display flashes “cutout” and if the temperature is decreasing.

  Note: When checking the over-temperature cutout, be sure that the temperature limits of the bath fluid are not exceeded. Exceeding the temperature limits of the bath fluid could cause harm to the operator, lab, and instrument.

On page 57, add this item in the table:

Problem	Causes and Solutions
The controller display flashes “cutout” and the heater does not operate	Normally, the cutout disconnects power to the heater when the bath temperature exceeds the cutout set-point causing the temperature to drop back down to a safe value. The heater only comes on again when the temperature is reduced and the cutout is manually reset by the operator, see Section *9.7, Cutout*. Check that the cutout set-point is adjusted to 10 °C or 20 °C above the maximum bath operating temperature. If the cutout activates when the bath temperature is well below the cutout set-point or the cutout does not reset when the bath temperature drops and it is manually reset, then the cutout circuitry or the cutout thermocouple sensor may be faulty or disconnected. Contact an Authorized Service Center (see *Section 1.3 Authorized Service Centers*) for assistance.

Change #4, A283, CSE-473

On page 5, under **COLD BATHS**, replace the section with:

- Periodically clean the condensing coil of the refrigerated baths. Accumulation of dust and dirt on the condenser can result in premature failure of the compressor.
- Bath or compressor lifetime may be affected by:
  - Cycling the heat source through extreme temperature ranges (the full temperature limit of the heat source). Cycling the instrument can cause excessive stress on the compressors. For the longest life, compressor manufacturers recommend to set the instrument at one temperature and leave the instrument at that temperature.
  - Frequently turning on and off the instrument adds wear and tear to the compressor.

On page 14, under **4.3 Power**, replace the first paragraph with:

Plug the power cord into a mains outlet of the proper voltage, frequency, and current capability. Refer to Section 3.1, *Specifications*, for power details.

On page 18, under **5.4 Power**, replace the paragraph with:

With the bath power switch off, plug the bath into an ac mains outlet of the appropriate voltage, frequency, and current capacity. Refer to Section 3.1, *Specifications*, for power details.

On page 31, under **8.3 Power**, replace the first paragraph with:

> Power to the bath is provided by an ac mains supply. See section 3.1, *Specifications*.

On page 32, under **8.5.1 Operation**, replace the section with:

> To protect the system from extreme pressures, the bath controller automatically turns off cooling when the bath operates above 50 °C.

On page 58, remove the problem and solution for: The bath does not turn on.