Manual Supplement

Manual Title:	7320 Users Guide	Supplement Issue:	**6**
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This supplement contains information necessary to ensure the accuracy of the above manual.

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Calibration

Change #1

On page 12, following the **Environmental Conditions** section, add:

Note

The Product may exhibit some control sensitivity to moderate or severe electromagnetic fields or conducted interference of certain frequencies. In the presence of radiated EM disturbances, with frequencies of 250 MHz to 400 MHz and with amplitude >1 V/m up to 3 V/m, add 0.0025 °C to the stability specification. Stability is not guaranteed if amplitude is >3 V/m. When subject to conducted disturbances of 8 MHz to 80 MHz, and amplitude >3 V, add 0.005 °C to the stability specification.

Change #2, 517

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 #3, 535

On page 11, under **Specifications**, replace the **Power** row with:

Power   115 V ac (±10 %), 60 Hz, 15 A [230 V ac (±10 %), 50 Hz, 8 A optional], 1400 VA

⚠ **Caution**

If the voltage is outside ±10 %, the compressor may be damaged. Check the back panel label for the correct voltage and frequency prior to energizing the unit.

Change #4

On page 11, under **Specifications**, replace the **Refrigeration** row with:

Refrigeration   **R-410A single stage**

On page 33, under 8.6 Refrigeration, change:

From: R-507

To: R-410A

On page 61, remove all of section 12 Charging Instructions.

Change #5, A171

On page 35, under **Reset Cutout**, remove this text:

The cutout has two modes — automatic reset and manual reset. The mode determines how the cutout is reset which allows the bath to heat up again. When in automatic mode, the cutout will reset itself as soon as the temperature is lowered below the cutout set-point. With manual reset mode the cutout must be reset by the operator after the temperature falls below the set-point.

When the cutout is active and the cutout mode is set to manual ("reset") then the display will flash "cutout" until the user resets the cutout.

On page 36, in **Figure 5**, remove:

Cutout Reset Mode and **Adj.Cutout Reset Mode**.

On page 42, under **Cutout**, replace the second and third paragraphs 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 "Cut-out". The display continues to flash between the actual temperature and "Cut-out" until the temperature falls below the reset temperature and the cutout is reset.

On page 44, under **9.11 Operating Parameters**, replace the last paragraph with:

Press "UP" to enter the menu.

On page 44, remove section **9.11.1 Cutout Reset Mode**.

On page 48, replace section **9.14.1 CTO** with:

9.14.1 CTO

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

On page 53, in **Table 3** remove the section for **Operating Parameters Menu**, (including **Read cutout mode**, **Set cutout mode**, **Set cutout to be reset manually**,and **Set cutout to be reset automatically**).

On page 64, replace the last bullet with:

- The over-temperature cutout should be checked every 6 months to see that it is working properly. In order to check the user selected cutout, follow the controller directions in *Section 9.2, Reset Cutout*, for setting 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 65, replace second item in the table with:

Problem	Causes and Solutions
The controller display flashes "cutout" and the heater does not operate	The display will flash "CUToUT" alternately with the process temperature. If the process temperature displayed seems grossly in error, consult the following problem: 'The display flashes "cutout" and an incorrect process temperature'. 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 9.10, 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) for assistance.