Manual Supplement

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

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FLUKE®
Calibration

Change #1

On page 12, after the last bullet in the **Environmental Conditions** section, add:

Note

The Product can show 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 to a maximum of 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, 518

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

- ambient 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, 640

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

Change #5, A171

On page 35, under ***9.2 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 re- set 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 *Cut-out* until the user resets the cutout.

On page 36, in ***Figure 5. Controller Operation Flow***, under Operating Parameters Menu, delete the options remove:

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

On page 46, under ***9.10 Cutout***, replace the 2nd and 3rd 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 *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 48, in section ***9.13 Operating Parameters*** change the last paragraph to:

Press “UP” to enter the menu. The operating parameters menu contains the cooling mode and hot gas bypass mode.

On page 48, remove section ***9.13.1 Cutout Reset Mode.***

On page 61, in the table 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 68, under ***Maintenance*** 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 69, replace second item in the table with:

Problem	Causes and Solutions
The controller display flashes CUt-out and the heater does not operate	The display will flash CUt-out alternately with the process temperature. • If the process temperature displayed seems grossly in error, consult the problem: *The display flashes CUt-out 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 Authorized Service Centers*) for assistance.

Change #6, 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.
- This bath has a brownout and over voltage protection device as a safety feature to protect the system components.

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. **Check the back panel label for the correct voltage and frequency before you energize the unit.** Turn on the bath with the POWER switch. The bath turns on heats or cools to reach the previously programmed temperature set-point. The display indicates the actual bath temperature. Set the cooling switch to ON for below or near ambient temperatures.

On page 19, 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. **Check the back panel label for the correct voltage and frequency before you energize the unit.**

On page 24, under **7.3 Back Panel**, replace the first paragraph with:

On the back of the bath are the system fuses, removable power cord, drain, serial port, and IEEE-488 port (if installed).

On page 32, under **8.3 Power**, replace the first paragraph with:

The bath is powered by an ac mains supply. Refer to Section 3.1, *Specifications*, for power details. **Check the back panel label for the correct voltage and frequency before you energize the unit.** Power to the bath passes through a filter to prevent the transmission of switching spikes to other equipment.