PLATINUM CARBON DIOXIDE CALIBRATION USING BAG AND METER

The HA1157 carbon dioxide calibration kit uses chemical absorption to calibrate the zero point, and a gas meter to calibrate the span point. The zero point can be calibrated at any time, but the span point must be calibrated with eggs in the machine when the CO_2 level inside cabinet is above 4000 ppm (0.4 %).

This calibration procedure can be used with any Platinum or ACI software version.

Zero calibration

1. Replace one of the carbon dioxide sensor's filters with the calibration nipple. Attach calibration bag's hose to the nipple.
2. Turn on the pump power switch and wait for CO_2 reading to drop to its minimum.
3. Calibrate zero:
   - On Platinum display, choose Setup, then Calib Zero, and then press OK.
   - On Sentry display panel, enter the Calibration function from the Machine menu. Select machine, then press Enter without changing temperature or humidity value, then select "Calibrate CO2 ZERO".
4. Turn off the pump and remove the hose. Replace the sensor filter.

Span calibration

1. Before starting make sure machine is loaded with eggs, cabinet doors have not been opened for at least two hours, and carbon dioxide reading on display is stable.
2. Insert gas meter probe into cabinet's calibration hole.
3. Press gas meter ON/OFF button for 3 seconds to turn on. The gas meter will beep and perform some tests.
4. After approximately 15 seconds "PROBE/FILTER OK" appears. Press ENTER button.
5. After sensor check and warm-up phase, meter shows CO_2 reading in parts per million. The reading must be above 4000 in order to proceed.
6. Calibrate span:
   - On Platinum display, choose Setup, then CO2 Setup. Change Span Concentration value to the meter reading and press OK. Press Calib Span button, then press OK to complete the span calibration.
   - On Sentry display panel, enter the Carbon Dioxide screen from Machine Setup menu. Select machine and set the span gas concentration to the meter reading. Choose Calibration function from Machine menu, then without changing temperature or humidity press Enter, then select "Calibrate CO2 SPAN"
7. Turn off the gas meter by pressing the ON/OFF button for 3 seconds.

Notes

- Refer to the manual supplied with HA1155 for complete meter handling and maintenance information. The gas meter's zero calibration should be periodically checked with the supplied absorption tube. The meter must be returned to Jamesway to check span calibration.

- Refer to instruction sheets supplied with HA1156 zero calibration bag for complete handling instructions. Replacement soda lime can be ordered from Jamesway as part number PB5936.

- If after calibration there is a carbon dioxide sensor failure alarm or reading changes to 100 or 12500 ppm, calibration was carried out incorrectly. Press Reset button in both the zero and span calibration screens to return to factory settings before retrying calibration.