

Improvements to the FRENCH PRESS G-M® for Biological Cell Disruption

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1. Opinion Piece

The FRENCH PRESS G-M® since 1950's has been used in many hundreds of laboratories for biological cell disruption processing quantities from under 1ml to 35ml volumes and more. This transmittal covers the safety and convenience improvements of the current version, Model 11.

Safety improvements include the elimination of a gap formerly under the moving platen. This pinch point is replaced with a tight fitting piston. The sample collection beaker is no longer held by operators, but now sits within a cradle. This allow the beaker to travel upwards with the rising Cell Body, constantly collecting disrupted samples while allowing operator's hands to be kept away.

The newly engineered MINI PRESSURE CELL 3.7 has the narrow section of the Piston deep within the Cell Body. This is held true in position by an extended one-inch segment of the Piston. Bending of the shaft as in the past is minimized or eliminated.

Well-marked stop points on the large Pressure Gauge remind operators of limits for both Pressure Cell Types used. Travel of the Piston is arrested by limit switches. This prevents collision of Piston against bottom of Pressure Cell.

The FRENCH PRESS G-M® housing is now stainless steel that is fully polished to a mirror finish. This allows for easy cleaning of any spills, with a very modern appearance (Figures 1-3).



Figure 1: FRENCH PRESS G-M®



Figure 2: Standard PRESSURE CELL

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Figure 3: MINI PRESSURE CELL 3.7