



**Fume Hood:** The lab has a large fume hood that vents externally with a flow of over 900 Cubic Feet per minute.

**Custom Toluene Still:**

Inside the fume hood is a 3000mL hemispherical bulb with heating mantle hooked to 20 Amp Variable Transformer. This toluene distillation unit is able to purify 500ml of toluene via a 500 mL water cooled condenser distillation head.

**Thermo Scientific™ Cimarec+™ Stirring Hotplates Series:**

Also shown is a Thermo Scientific™ Cimarec+™ series digital stirring hotplate which offers precise stirring control, exceptional safety and temperature performance for your routine protocols. The Cimarec+ Series are available in three sizes, providing flexibility from microscale chemistries to production operations. Stir-Trac features innovative engineering for slow-speed stirring, consistent speed control, and strong magnetic coupling. Temperature adjustable in 1-degree increments. Hot Top warning system protects from accidental burns with prominent display when heating surface is above 50°C (122°F). Flexible, robust design. Top plate choices in ceramic or aluminum. Easy-to-read LED display for heating and stirring. Raised display design protects electronics from spills. The McBride Lab has seven of these for multi-batch uniform synthesis runs.

**Fisherbrand™ Autoclavable Bottletop Dispensers:**

Also shown are the highly convenient Bottletop Dispensers. Wetted parts are PTFE, FEP and borosilicate glass (allows instrument to be used with a wide variety of chemicals), 7 volume ranges to choose from, Bubble-free dispensing, Effortless plunger movement, Disassembles for easy cleaning and servicing, Autoclavable at 121°C, 15 psi for 10 to 15 minutes. Each bottle top dispenser includes one 28mm, 32mm, 36mm, 40mm, 45mm bottle neck adaptor.

**BRAND Bottletop Dispensers:**

New discharge tube, with or without recirculation valve. New valve system - no additional sealing rings required, facilitates cleaning and preparations for autoclaving. Simple priming by optimized flow channels. Less dispensing force - especially with large volume instruments. Safe volume setting with internal scalloped track (analog-adjustable instruments). Pivoted screw cap - does not disturb dispensing Easy to calibrate and adjust in order to comply with GLP guidelines. Easy to dismantle for cleaning Replaceable filling and discharge valve with safety bulb (locks when discharge tube is not assembled) 360° rotatable valve block allows bottle label to face user. Telescoping filling tube adjusts easily to different size bottles.