INQUIRY
When inquiry is made for parts or repair, please include the MANUFACTURING LOT NUMBER located on the handle. (See Figure 1).

ACCESSORIES
CAT. #790 125cc HDPE Bottle w/3.65 tubing inlet and adapter
CAT. #822 8-port disposable manifolds (25/box)

REAGENT EXCLUSION LIST
This is not a complete listing — any reagent that is not compatible with Polypropylene or Viton® should be avoided.

NOT TO BE USED

Amyl Chloride
Benzyl Alcohol
Boric Acid
Bromine
Bromobenzene
Bromoform
Butadene
Butyric Acid
Carbon Disulfide
Chlorobenzene (Mono)
Chlorosulfonic Acid
Chloroform
Chlorox
Diethyl Benzene
Diethyl Ether
Dipropylene Glycol
Ether
Ethyl Acetate
Hydroflouric (HF) Acid
Methyl Isopropyl Ketone
Nitrobenzene
Oils: Cedarwood
Cinnamon
Oleum
Perchloroethylene
Tetrahydrofuran
Thionyl Chloride
Toluene
Trichloroethane

SHORT TERM USE ONLY ONE DAY MAXIMUM, then rinse with water.

Trichloroethylene
Vinylidene Chloride
Dicholorobenzene
Ethyl Benzene
Ethyl Chloride, Liquid
Ethylene Chloride
Ethylene Oxide
Flourine
Isopropyl Benzene
Methyl Chloride
Nitric Acid, 50-70%
Xylene

StatMatic II
8-Channel Microplate Dispenser
MODEL 980

Operating Instructions

SPECIFICATIONS
Dispensing Ranges - 0.8mL, 1.6mL, 2.0mL & 2.4mL (full-stroke)
Dispensing per manifold port - 100uL, 200uL, 250uL, 300uL

Not Autoclavable
Only glass, Polypropylene, Platinum/Iridium, Teflon® and Ceramic contact the reagents (excluding flexible Tygon® Remote Inlet). See the recommended reagent exclusion list.

INSPECTION
Carefully inspect your Dispenser for any shipping damage. Any defects or shortages should be reported to the supplier. Included with each Dispenser are the following accessories: (3) each of calibration rings, (1) bottle and cap assembly, (1) remote inlet tube assembly, (1) 8-port manifold.

DISPENSE VOLUME SETTING (Refer to Figure 1)
All Dispensers are shipped set at the maximum dispense volume.
Other dispense volumes may be set by installing the proper CALIBRATION RING. Unscrew the RETAINER CAP from the HANDLE. The PLUNGER BUTTON ASSEMBLY contains a RETURN SPRING and should be held firmly during unscrewing to prevent rapid separation and possible damage. Place the desired RING on the PLUNGER BUTTON and carefully guide the PLUNGER back into the opening in the GLASS BARREL.
(**CAUTION**: Although the plungers are highly resistant to breakage, any severe bending or scratching may cause serious damage). Retighten the RETAINER CAP.

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HANDLING LIQUIDS...PRECISELY
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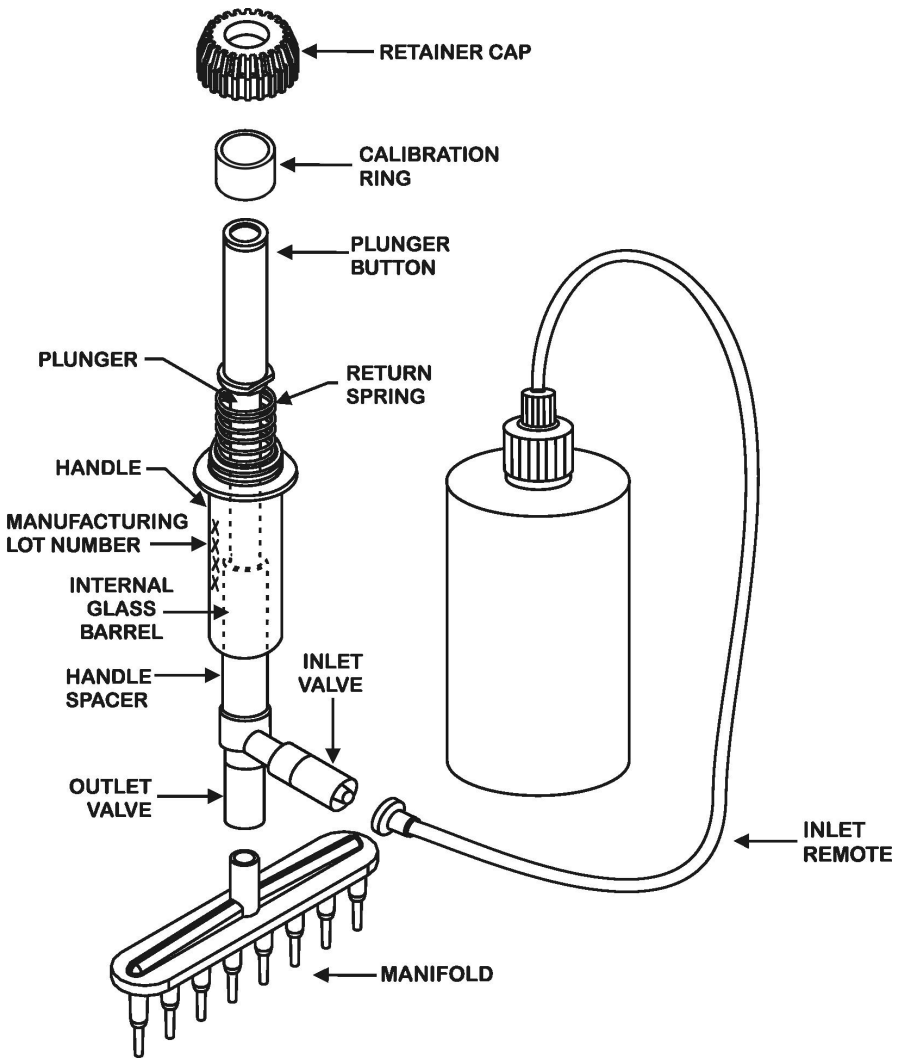
FIGURE 1



SET UP

Included with the basic Dispenser is a 500mL Polyethylene Bottle with its Cap Assy. Connect the Cap Assy to one end of the long remote Inlet Tube. Connect the other end of this Tube to the side port of the Dispenser as shown in Figure 1. Install the 8-port Manifold to the end of the Dispenser as shown in Figure 1.

PRIMING

Fill the Bottle with the desired reagent and remove the 8-port Manifold. Unscrew the Cap Assy from the Bottle and insert the outlet port of the Dispenser into the neck of the Bottle along-side of the tubing of the Cap Assy. Press and release the Plunger Button until bubble-free reagent is being discharged back into the Bottle. Reinstall the Cap Assy and the Manifold.

OPERATION

For the highest order of precision in dispensing, the Plunger Button should be operated with consistent strokes. Avoid releasing the Button to “snap” back.

CLEANING

The Dispenser should be cleaned at regular intervals, particularly if protein based reagents are used. One method calls for a suitable solvent or acid to be pumped through the Dispenser until it is purged of any residues. A second method requires the plunger to be removed from the barrel, which permits more thorough cleansing. (**CAUTION**: The plunger assembly contains a return spring and should be held firmly during unscrewing to prevent rapid separation and possible damage). Rotate the retainer cap counter-clockwise and carefully extract the Teflon® plunger. (Refer to Figure 1). (**CAUTION**: Although the Teflon® plunger is highly resistant to breakage, any severe bending will cause serious damage). Do not scrape or use abrasives to clean the plunger. A soft cloth and warm water are recommended. The barrel can best be cleaned with a small tube brush, followed by a thorough rinsing with water. Replace the return spring and carefully re-engage the plunger into the barrel. Rotate the retainer cap clockwise until fully seated.

If the Dispenser plunger appears to be stuck in the barrel, do not apply excessive force towards removal as plunger breakage may result. Place the entire unit in warm water and allow to soak for at least 10 minutes. Allow the Dispenser to cool. Then apply a gently twisting motion to the plunger. Generally this will free the plunger permitting removal for complete cleaning. Excessive removal pressure may cause a slight withdrawal of the barrel from its mounting flange. The proper, fully bottomed position is indicated by the handle spacer (Figure 1) being firmly in contact with the top of the barrel mounting flange. If displacement is noted, heat the flange in hot water and press downward on the upper portion of the handle until alignment is restored. Dispensers may be filled with distilled or deionized water for storage to minimize sticking of the plunger.