AUTOMATED APPARATUS for CLEANING FOAM TESTING CYLINDERS

- **Meets The Requirements of ASTM D892 and D6082**
- **Cleans 4 Foam Test Cylinders Simultaneously**
- **Each Solvent Flushing Time is Operator Adjustable**
- **Improved Safety with Minimum Operator Contact with Solvents**
- **Reduced Risk of Injury by Broken Glass**
- **Significant Time Savings to the Operator**

Also for Methods:

ASTM	D892, D6082
IP	146
DIN	51-566
NF	T60-129
FTM	791-3213

Model 406 is specifically designed for automated cleaning of up to 4 foam testing cylinders simultaneously. The cleaning process fully conforms to ASTM D892 and D6082 using the specified solvents and drying procedure. The automation of the foam test cylinder cleaning chore releases the operator to more productive activity.

The automated cleaning apparatus enclosed in a front opening cabinet consists of a holder for 4 foam test tubes that are inverted on it (after draining of the test oil). A powerful, air driven pump sends a pulsating spray of solvents in the sequence as specified by the test methods (i.e., heptane, detergent water, distilled water, acetone, and finally drying air). The solvent spray impinges on the bottom of the test tube and then flows along the sides of the tubes for a total cleaning.

To conserve solvents a small amount of clean solvent is introduced into the cylinder and recirculated for an adjustable period of time. This is followed by a clean solvent rinse, and then proceeding to the next cleaning process.

The operation is controlled by an on-board Windows based PC and can be accessed by the operator via a touch panel screen. He/she can select (and store in memory) the times of each step of the sequence. This option gives the operator the flexibility to adjust the flow of each cleaning step to balance time and material use vs. satisfactory cleaning.

The valves controlling the flow of materials are operated by non-sparking, low voltage solenoid valves. All the electronics and all electrical components are in a separate, nitrogen purged compartment. Although precautions have been taken to reduce the fire hazard of this apparatus, Model 406 is not explosion nor fire proof.

The solvents are contained within the test tube and plumbing. This closed system keeps the operator from exposure to the solvents.

Each test position has a manual shutoff valve, thus allowing the cleaning of less than 4 tubes at a time.

The approximate overall dimensions are 31 x 15 x 35 inches high (79 x 38 x 90 cm).

▲ Model 406