

## APPARATUS for AIR RELEASE PROPERTIES of OILS

- Conforms to ASTM D3427 Test Method
- Temperature Control of  $\pm 0.1^{\circ}\text{C}$
- Over Pressure and Over Temperature Protection
- Precision Balance with PC Communications

### Also for Methods:

ASTM	D3427
ISO	9120
IP	313
DIN	51 381
NF	E48-614

**Model 41** apparatus for determination of air release properties of oils meets the specifications of ASTM D3427 test method.

Model 41 consists of an air heating chamber with digital indicating temperature control, air pressure gauge, air pressure regulator, jacketed impinger test vessel, a glass bob with platinum wire, digital electronic balance with PC communication and facility at the bottom for the glass bob connection, and a heated recirculating bath. The recirculating bath provides  $\pm 0.1^{\circ}\text{C}$  temperature control of the oil in the impinger vessel as well as for preheating of the glass bob.

Over temperature protection circuitry is provided in Model 41 in the event of primary controller failure. As another safety measure, pressure relief valve is provided to release pressure at 10 psig. The impinger vessel is supported on and adjustable up or down with a precision screw type platform to allow precise positioning of the glass bob within the test oil.

An automatic timer shuts down the flow after 7 minutes and sounds an alarm calling for the operator to insert the glass bob and measure the density.

## OIL SEPARATION from GREASE

- Meets The Requirements of ASTM D1742 and FTM 791-322
- Refrigerated and Heated Constant Temperature Cabinet
- Digital Temperature Control at  $25^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$
- Air Pressure Control

### Also for Methods:

ASTM	D1742
FTM	791-322

**Models 375-4** and **375-6** have 4 and 6 positions, respectively, and meet the requirements of ASTM D1742 and FTM 791-322 Test Methods for Oil Separability from Grease During Storage.

The cabinet has an integral refrigeration compressor providing temperature control at  $25^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$  regardless of ambient temperature. Control is provided by a digital indicating controller with  $0.1^{\circ}\text{C}$  resolution showing set point and actual temperature. Forced air circulation provides uniform temperature within the cabinet.

Pressure to the pressure bleed test cells is regulated at 0.25 psi (1.72 kPa). The regulating system includes an air inlet pressure regulator with gauge, control valve for each cell, and a built in pressure relief system protecting against pressure surges. A shutoff valve is provided for each test cell allowing removal of one test cell without disturbing the other cells still under test.

Model 375-4 and 375-6 have 2 front opening doors and overall approximate dimension of 24 by 30 inches high.



▲ Model 375-4