

**B065**
**ROTAVAPOR**
**ROTARY EVAPORATION APPARATUS**

BITUMINOUS BINDERS. RESISTANCE TO HARDENING. ROTATING FLASK TEST: RFT METHOD

STANDARD: EN 12607-3

This unit is used to simulate the hardening of the bitumen binder during mixing process in an asphalt plant, to determine the resistance to hardening under influence of heat and air. The test is performed by putting 100 g of bituminous binder into the rotating flask. The sample is heated at 165°C and ambient temperature air is blown into the flask containing the binder hardening the same. The hardening effect is evaluated according to penetration, viscosity and softening point tests.

The Rotary Evaporation Apparatus is essentially composed of:

distillation flask 1000 ml capacity rotated by a speed motor at an adjustable rate between 10 and 280 rpm, condenser, solvent recovery flask, heated oil bath.

The angle of the rotary/distillation flask is 15°

The instrument is supplied complete with glass tubing with three way valves and transparent flexible hose for solution intake.

The Rotatory Apparatus requires a vacuum pump and a vacuum regulating system (see accessories at p. 86).

**Power supply:** 230V 1ph 50-60Hz

**Dimensions:** 740x430x845 mm

**Weight:** 15 kg approx.

**B065-01**
**ROTARY EVAPORATION APPARATUS**

STANDARD: EN 12607-3

Same model as B065 but with motorizing lifting device.

**B075-05**
**SOLUBILITY OF BITUMINOUS BINDERS**

STANDARDS: EN 12592 | ASTM D2042

The set comprises:

Gooch crucible complete with funnel and rubber ring.

Filter flask 500 ml capacity with rubber stopper.

Whatman filter discs, Ø 25 mm (pack of 100)

**Weight:** 1000 g approx.

BITUMEN EMULSIONS:

**B075-01**
**GRADUATED CYLINDER WITH  
SIDE TUBES AND STOPPER**

DETERMINATION OF SETTLING TENDENCY

STANDARDS: EN 12847 | IP 485

The cylinder has 600 ml capacity, it is marked at 500 ml and two side tubes are foreseen.

**Weight:** 800 g approx.

**Note:** To perform this test the water in petroleum emulsion, equipment mod. B075 is also required. See p. 147

**B075-08**
**GLASS TUBE WITH GLASS FILTER**

DETERMINATION OF PENETRATION POWER

STANDARDS: EN 12849 | IP 487

The glass tube has 41.5 mm inside diameter by 115 mm height, and a fused-on glass filter with holes size between 0.160 and 0.250 mm is fitted.

**Weight:** 300 g approx.


**B065**

**B075-05**

**B075-01**
**B075-08**