

## DATA SHEET



# Rotary evaporator for binder recovery

EN 12697-3 | ASTM D5404 | AASHTO TP2

### GENERAL DESCRIPTION

The apparatus is used for the recovery of soluble bitumen from bituminous pavement materials in a form suitable for further testing.

During operation, the solution of solvent and asphalt (bitumen) from a prior extraction is distilled by partially immersing the rotating distillation flask of the rotary evaporator apparatus, in a heating oil bath while the solution is subjected to high vacuum with fine regulation of pressure (up to  $\pm 0.1$  kPa) according to EN 12697-3 or to partial vacuum and flow of nitrogen gas according to ASTM D5404 and AASHTO TP2. The recovered asphalt (bitumen) can then be subjected to further testing as required.

For the test sets conforming to EN and ASTM versions, see accessories.

- Complete with 1000 ml cap. glass flat evaporating balloon
- Rotation speed: adjustable from 20 to 270 rpm
- Temperature range: from + 20 to + 210°C
- Power: 1300 W
- Weight approx.: 27 kg

The Rotary evaporator can accept evaporating balloons up to 5000 ml cap.

### ORDERING INFO

**75-B0165** Rotary evaporation apparatus. 230 V, 50 Hz, 1 ph

### ACCESSORIES

#### EN 12697-3 accessories

- 75-B0165/5** Diathermic oil. 18 kg can
- 75-B0165/4** Glass flask 1 liter capacity with rubber stopper
- 75-B0165/3** Glass tubing with three way valve and transparent flexible hose for solution intake
- 86-D2003** Dual stage high vacuum pump. 230 V, 50 Hz, 1 pf. (For 110 V, 60 Hz ask model 86-D2003/Z)
- 86-D2004/1D** Vacuum regulator with digital gauge, 0.001 bar resolution. 230 V, 50-60 Hz, 1 ph. (For 110 V, 60 Hz ask model 86-D2004/1DZ)
- 86-D2064** Rubber tube for vacuum, 6.5/16.5 int./ext. mm dia., 2 m

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### ASTM D5404, AASHTO TP2 accessories

- 75-B0165/5** Diathermic oil. 18 kg can
- 75-B0165/2** Glass flat evaporation balloon 2000 ml capacity
- 75-B0165/3** Glass tubing with three way valve and transparent flexible hose for solution intake
- 86-D2003** Dual stage high vacuum pump. 230 V, 50 Hz, 1 pf. (For 110 V, 60 Hz ask model 86-D2003/Z)
- 86-D2004/1D** Vacuum regulator with digital gauge, 0.001 bar resolution. 230 V, 50-60 Hz, 1 ph. (For 110 V, 60 Hz ask model 86-D2004/1DZ)
- 86-D2064** Rubber tube for vacuum, 6.5/16.5 int./ext. mm dia., 2 m
- 75-B0165/6** Flow control device and flowmeter to monitor the CO<sub>2</sub> flow rate up to 1000 ml/min



75-B0165

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86-D2004/1D



75-B0165/6