

## DATA SHEET

# Rotary Evaporator for Binder Recovery



75-PV1650

## 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 m cap.

## Standards

- EN 12697-3
- ASTM D5404
- AASHTO TP2
- EN 12607-3

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86-D2004/1D



75-B0165/6

## Products

### 75-PV1650

Rotary evaporation apparatus. 230V/50-60Hz/1Ph.

### 75-PV1650/Z

Rotary evaporation apparatus. 110V, 60Hz, 1Ph.

## Accessories and consumables

### 86-D2064

Rubber tube dia 6.5 x 16.5 mm 2 m long, for vacuum pumps

### 75-B0165/2

2000 ml distillation flask

### 75-B0165/3

Glass tubing with three way valve and transparent flexible hose for solution intake

### 75-B0165/4

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Glass flat evaporation ballon 1000 ml capacity

**75-B0165/5**

Diathermic oil can of 18 kg

**75-B0165/6**

Flow control device and flowmetr to monitor the CO2 flow rate op to 1000 ml/min

**86-D2003**

Two stage portable vacuum pump , ultimate vacuum 0,01 mbar, free air displacement 75 l/min. 230V/50-60Hz/1ph

**86-D2004/1D**

Vacuum regulator complete with digital display unit, 0,001 bar resolution. 110-230V/50-60Hz/1ph