

Automatic bitumen extractor

ASTM D2172 | EN 12697-1

MAIN FEATURES

- Fully automatic testing cycle:
 - Sieving
 - Centrifuge extraction
 - Solvent recovery
- Conforms to latest anti-pollution requirements
- Ideal for mastic asphalt
- Big reduction of toxic fumes in the laboratory
- High extraction capacity: up to 400 g of filler per test
- Sensible reduction of extraction time
- Avoids solvent handling by the operator
- Low quantity of solvent material used and sensible reduction of extraction cost
- Use of perchloroethylene as solvent

GENERAL DESCRIPTION

Introduction

Used for separation and extraction of bitumen by use of perchloroethylene or trichloroethylene solvents and sieving, for the separation of filler by centrifuge action and for the recovery of solvent material. The complete cycle is carried out automatically.

We propose two versions identical except for the sieves which are included in the model 75-B0005 and not included in the model 75-B0005/A that, for this reason, can be completed by the user conforming to the preferred openings. The unit can be housed inside the cabinet with aspirator 75-B0005/50 as shown in the pictures. See accessories.

Description

The basic machine comprises:

- A sieving unit with solvent spraying nozzle to separate and wash out the asphalt sample capacity 7 sieves 200 mm dia.
- A filterless centrifuge to separate the filler from the solvent and bitumen solution.
- A solvent recovery unit to recover the solvent.

The apparatus is supplied complete with separate electric control panel and three spare cups for the extraction centrifuge.

75-B0005 model is also supplied with the following parts:

- 200 mm dia. stainless sieve 75 mm op., 250 mm op., 710 mm op., 2 mm op.
- 200 mm dia. sieve frame only
- 200 mm dia. sieve pan
- O-ring gaskets for above
- Pack of 100 lining paper sheet

Other testing sieves of different openings can be used

DATA SHEET

TECHNICAL SPECIFICATIONS

- **Max. quantity of asphalt per extraction:** 3.5 kg
- **Max. quantity of filler:** 300-400 g
- **Time required for a complete extraction:** from 25 to 45 min
- **Max. solvent recovery capacity:** from 40 to 50 l/h
- **Rotating speed:** 12000 r.p.m.
- **Current specifications:** 220-380 V, 50-60 Hz, 3 ph., 3.5 kW
- **Overall dimensions of the testing unit:** 1200x650x1200 mm approx.
- **Weight approx.:** 170 kg

ORDERING INFO

- 75-B0005/A** Automatic binder extraction unit, supplied without sieves. 380 V, 50 Hz, 3 ph
- 75-B0005** Automatic binder extraction unit complete with four 200 mm dia. test sieves: 0.075, 0.250, 0.710 and 2 mm openings. Conforming to EN 12697-1 and ASTM D2172. 380 V, 50 Hz, 3 ph

ACCESSORIES

Cabinet with aspirator

- 75-B0005/50** Cabinet with aspirator for Automatic extraction unit. 230 V, 50 Hz, 1 ph.

Description

Designed to house the extraction unit. Including wheel mounted carriage for easy removal of the extraction unit, fit with electric aspirator and roof opening with basket for activated charcoal. The use of this cabinet is recommended to minimize the diffusion of toxic solvents in the laboratory.

- Overall dimensions (wxdxh): 1635x920x2300 mm
- Weight approx.: 200 kg

Test sieves and spares

- 75-B0005/1** Spare stainless cup for centrifuge
- 15-D2330/J** 200 mm dia. stainless sieve 75 mm op.
- 15-D2275/J** 200 mm dia. stainless sieve 250 mm op.
- 15-D2230/J** 200 mm dia. stainless sieve 710 mm op.
- 15-D2185/J** 200 mm dia. stainless sieve 2 mm op.
- 5-B0005/2** Spare lining paper for centrifuge cup. Pack of 100
- 75-B0005/8** O-ring gasket. Pack of 10
- 15-D2001/J** 200 mm dia. sieve frame only

DATA SHEET



75-B0005



75-B0005 housed inside the 75-B0005/50 Cabinet