

VACUUM CONTROLLER- DIGITAL - VISCOMETER

STANDARDS: EN 12596, ASTM D2171, AASHTO T202, IP 222

MatCivTest
MATERIAL CIVIL TEST EQUIPMENT

VACUUM VISCOSIMETER BATH

101-B0040-01

This Vacuum Viscometer Bath is designed for tests that require ultra precise temperature and vacuum control, or processes that need to be followed visually.

All wetted parts are made of stainless steel

The bath can be operated from ambient +5 (with a cooling system) up to +230 °C.

The set point can be set in steps of 0.01°C. The system overall accuracy is within ± 0.01 °C.

After the temperature control is stable, the offset can even be adjusted with ± 0.005 °C.

The Bath is equipped with the digital vacuum controller, the vacuum manifold to offer 4 positions and all tubing to perform the test.

This system further offers high precision and feedback regulation on the vacuum, within 0,5 mm Hg (or mBar) of its set point.

TECHNICAL SPECIFICATIONS

- Temperature Range: Ambient to 230°C;
 - Temperature Stability: ± 0.01 °C;
 - Bath Volume: 40 litres;
 - Pressure Range: 30 to 430 mBar (negative pressure);
 - Pressure Accuracy: ± 0.5 mBar;
 - Digital Vacuum Controller;
 - 4 viscometer positions;
- Power supply: 230V, 50-60Hz



101-B0040-03 VACUUM CONTROLLER- DIGITAL - VISCOMETER BATH BACK LIGHT

This light panel sits behind the viscometer tank to provide light for visualising the viscometer tubes
85-230V



101-B0040-02 VACUUM PUMP & CONTROLLER- DIGITAL - TO SUIT VISCOMETER BATH

Vacuum pressure regulator, for precise control during test.

Suits B088-01N and 101-B0040-02 Viscometer Bath

The TVS is a digital vacuum controller designed to offer a precise pre-selected negative pressure,

i.e. - 300 mm Hg for ASTM D2171. The TVS offers a range from 20 .. 320 mm Hg [30 .. 430 mBar].

An internal pump provides vacuum which can be set using the up/down key on the front panel.

The set point is stored in memory and automatically set after power up. Internal pneumatics regulate the vacuum around this set point.

In case of leakage or volume fluctuations, the electronic feedback system will maintain the pre-set vacuum.

One of the main advantages of the TVS is the extremely small footprint compared to the few other vacuum systems available in the market, saving important workbench space.

The system further offers high precision and a feedback regulation on the vacuum. This control keeps the vacuum within 0.5 mm Hg of its set point.

Main Features:

Electronic feedback system to maintain the pre-set vacuum

Required vacuum is reached in under 15 seconds

Small dimensions

Visible fluid trap

Vacuum control within the specifications of ASTM D2171

Wide range to enable the system to be used for other applica-



101-B0040-04 VACUUM VISCOSIMETER BATH - MANIFOLD

The Vacuum Manifold (TVM) is designed to be used together with our Vacuum system (101-B0040-01 & 101-B0040-02).

The Manifold allows to control to which viscometer the vacuum is applied.

The Manifold can be easily mounted on 101-B0040-01 by using the standard holes of the top plate.

The manifold offers four positions and is delivered with 4mm blue PU-tubing between devices



Accessories



101-B0040-010

The rubber viscometer holder iused with:

- CANNON viscometers: Cannon-Manning Vacuum and the Asphalt Institute Vacuum.

101-B0040-011

Stainless Steel Viscometer holder used with:

- "Modified Koppers Vacuum Viscometer".



101-B0040-012

Viscometer holder for Cannon Manning Vacuum Viscometer and Asphalt Institute Vacuum Viscometer.