

function

The **SCITEQ MFI-450** is used to determine the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of a wide range of thermoplastic raw materials (granulate) by extruding it in a molten state through a calibrated die using a reference weight. It offers easy operation with colour touch screen control for fully automatic testing.

highlights

full touch screen

robust construction

micro-printer

high accuracy

quality product

weight loading device
(standard on model C)

version 07/2014

features

The user-friendly MFI combines high accuracy and precision essential for quality control and R&D.

Complies with BS 2782 Part 7: Method 720A, ISO 1133 and ASTM 1238 Methods A and B.

Calculates melt mass-flow rate (MFR), melt volume-flow rate (MVR) and melt density/viscosity.

Touch screen with simple set-up of test and operation. Test results can be viewed and printed on an optional micro-printer.

Heavy-duty, robust construction which is easily cleaned.

Supplied with fully equipped weight kit up to 21,6 kg and full accessory kits.

Two models are available: C and C1. Model 450C has a weight loading device.



SCITEQ MFI-450 - touch screen

We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

The MFI-450 series is a rigid constructed table apparatus using the latest touch screen controller technology with a very intuitive software. It has audible prompts at the correct time and results calculated and displayed at the end of the test. With the displacement transducer, which is standard on both models C and C1, MVR testing can be performed.

The weight loading device is standard on model C improving use-ability and ensuring weight is loaded evenly.



SCITEQ MFI-450 with touch screen controller and micro-printer.

- model range:** 450C (MFR, MVR and weight loading device)
450C1 (MFR, MVR)
- temperature range:** 120°C to 450°C (248°F to 842°F)
- temperature accuracy:** ±0.2°C
- timing accuracy:** 0.01s
- displacement error:** ±0.1mm (MVR)
- heating rate:** ≥12°C/min.
- warm up time:** approx. 16 minutes (190°C)
- electrical supply:** Single phase 230V ±10% AC 50-60Hz. 6 Amps
- maximum power required:** 0,65kW
- international standards:** BS 2782 Part 7: Method 720A, ISO 1133 and ASTM D1238 Methods A and B
- corrosion resistant barrel and pistons:** tungsten carbide for testing of corrosive materials such as PVC and abrasive glass filled materials
- temperature measurement:** PT 100 sensor
 - die:** tungsten carbide 2.095±0.005mm
- piston length:** 193mm full length (effective length 175mm)
- piston head length:** 6.35±0.10mm
- piston rod diameter:** 9.475±0.015mm
- cylinder diameter:** 9.550±0.025mm
- dimensions:** 550x435x880mm (length x width x height)
- net weight:** 62 kg

accessories (included):

- 2.095 mm die
- standard piston
- charging tool
- die ejector tool
- barrel cleaning tool
- die broach
- cleaning patches
- filling funnel
- piston support sleeves
- die tweezers
- hexagonal key
- die retaining plate



Complete weight set box consisting of one of each weights:

- 600 g
 - 875 g
 - 960 g
 - 1.000 g
 - 1.200 g
 - 1.640 g
 - 2.500 g (two)
 - 5.000 g (two)
- (Total weight up to 21,6 kg incl. 325 g for components)



SCITEQ A/S

Rho 3
 DK-8382 Hinnerup
 Denmark
 Tel: +45 86 96 19 33
 Fax: +45 86 96 24 75
 www.sciteq.com
 sales(at)sciteq.com