



ADVANCED PAVEMENTS TESTING SYSTEMS

BITUMIX

Automatic Laboratory Mixer

**main features**

- > Conforms to EN 12697-35
- > Ideal for preparing laboratory samples for mix design
- > New improved mixing drum and heating system quickly adjustable up to 250°C
- > Mixing capacity up to 30 liters
- > Mixing speed adjustable from 5 to 35 rpm
- > Mixing temperature adjustable up to 250° C
- > Stainless steel (AISI 304) mixing container
- > Temperature control with PT 100 probe
- > Digital temperature display
- > Easy unloading by motorized tilting system, total rotation up to 130°

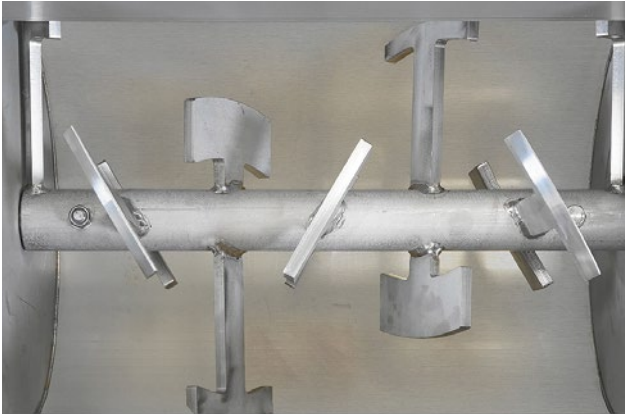
Standards EN 12697-35

The design and testing of bituminous mixtures includes various laboratory tests such as Marshall stability (EN 12697-34), Gyrotory compaction (EN 12697-31), Slabs laboratory compaction (EN 12697-33) to prepare specimens for Wheel tracking (EN 12697-22) and Determination of stiffness including Beam fatigue testing (EN 12697-26, EN 13108).

To produce samples for performing the above tests, it is essential that the preparation of a bituminous mixture is carried out at a reference temperature and within a limited time period in order to reduce mechanical degradation of the aggregates. The mixer should also be capable of entirely coating all mineral substances in not more than 5 minutes as stated by EN 12697-35.

The mixer consists essentially of a horizontal stainless steel mixing container with a helical mixing shaft. The container is thermally insulated and comes complete with a heating element and probe sensor which provide uniform temperature control. The container can be easily tilted by the electric motor for the unloading operation.

The control panel includes: a digital display to monitor mixing temperature, a digital thermo-regulator, a mixing speed controller and various commands.



77-PV0077/C Detail of drum with helical mixing shaft



Ordering information

77-PV0077/C

BITUMIX automatic laboratory mixer,
30 liters capacity.
380–400 V, 50 Hz, 3 ph.

77-PV0077/CZ

As above but 220 V, 60 Hz, 3 ph.



77-PV0077/C Detail of aggregate loading

Technical specifications

- Mixer capacity: 30 liters
- Mixing speed: adjustable from 5 to 35 rpm
- Mixing temperature: adjustable from ambient to 250°C
- Heater: 4500 W
- Temperature control: PT 100 sensor
- Tilting angle up to 130°
- Power: 7,000 W (total)
- Voltage: 380–400 V, 50 Hz, 3 ph or 220 V, 60 Hz, 3 ph
- Overall dimensions: 1,350 x 650 x 1,205mm (W x D x H)
- Weight: approx. 320kg



77-PV0077/C Detail of unloading. The mixing cylinder is rotated by a motorized tilting system for easy unloading. The tilting angle is adjustable to 130° to speed up the unloading operation.



77-PV0077/C

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