

DATA SHEET

Automatic Laboratory Mixer BITUMIX



Automatic asphalt laboratory mixer BITUMIX

General description

The design and testing of bituminous mixtures includes various laboratory tests such as the 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 a limited time period in order to reduce mechanical degradation of the aggregates. The mixer shall 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 in a horizontal stainless steel mixing container with helical mixing shaft. The container is thermally insulated and comes complete with 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.

The Bitumix mixer can be used as part of your **Superpave performance based testing** program

Main features

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

Standards

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- EN 12697-35

Specifications

Mixer capacity: 30 litres

Mixing speed: adjustable from 5 to 35 rpm

Mixing temperature: adjustable from ambient to 250°C

Heater: 4500 W

Temperature control: PT 100 sensor

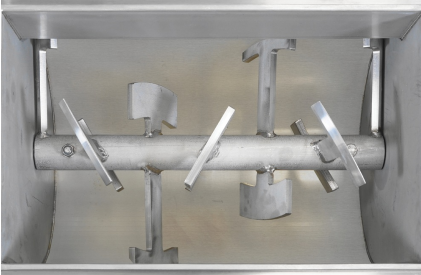
Tilting angle up to 130°

Power: 7000 W (total)

Voltage: 380-400V, 50 Hz, 3 ph or 220V, 60 Hz, 3 ph

Overall dimensions: 1350 x 650 x 1205 (w x d x h)

Weight: approx. 320 kg

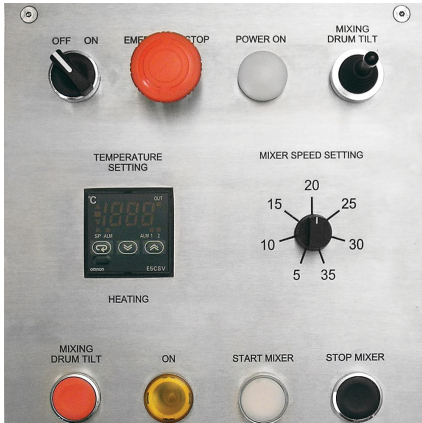


Asphalt mixer drum with helical mixing shaft



Asphalt mixer: aggregate loading operation

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Asphalt mixer's control panel



The asphalt mixer BITUMIX features a motorized tilting system for easy unloading. The tilting angle is adjustable to 130° to speed up the unloading operation

Products

77-PV0077/C

BITUMIX - Automatic laboratory mixer 30 litres capacity. 380V/50Hz/3ph

77-PV0077/CR

BITUMIX - Automatic laboratory mixer 30 litres capacity. Complete with mixing tool with removable and adjustable blades. 380V/50Hz/3ph

77-PV0077/CRZ

BITUMIX - Automatic laboratory mixer 30 litres capacity. Complete with mixing tool with removable and adjustable blades. 220V/60Hz/3ph

77-PV0077/CZ

BITUMIX - Automatic laboratory mixer 30 litres capacity. 220V/60Hz/3ph