

# BITUMIX

Automatic Laboratory Mixer





**Standards:** EN 12697-35

The design and testing of bituminous mixtures includes various laboratory tests such as Marshall stability (EN 12697-34), Gyratory 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 of a horizontal stainless steel mixing container with a helical mixing shaft. The container is well 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 mixer is also available in a special version complete with mixing tool with removable and adjustable blades, for easy maintenance and possibility to adjust the gap between blade and container.

#### Features

- Conforms to EN 12697-35
- Ideal for preparing large laboratory samples for mix design
- New improved mixing drum and heating system
- 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°



# Specifications

**Mixer capacity:** 30 liters

**Mixing speed:** adjustable from 5 to 35 rpm

**Mixing temperature:** adjustable  
from ambient to 250°C

**Temperature control:**  
PT 100 sensor

**Motorized mixing container:**  
Tilting angle up to 130°

**Power:** 7,000W (total) 4,500 W (heating)

**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:** 320 kg approx.

## 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/CR

BITUMIX automatic laboratory mixer 30  
liters capacity. Complete with mixing tool  
with removable and adjustable blades.  
380-400 V, 50 Hz, 3 ph.

### 77-PV0077/CRZ

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



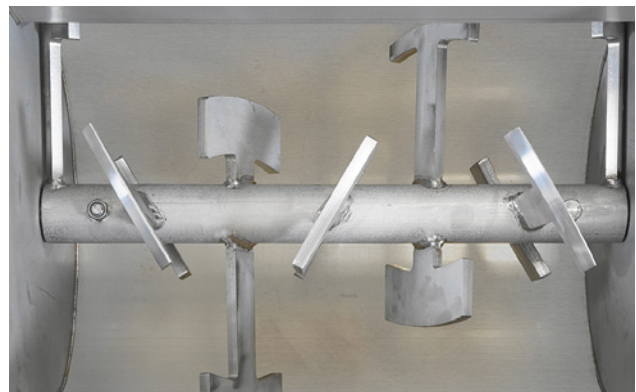
Control panel



77-PV0077/C Detail of aggregate loading



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 Detail of drum with helical mixing shaft



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**البرقان للمعدات ذ.م.م**  
**BURGAN EQUIPMENT L.L.C**

**KUWAIT** 

📍 P.O. BOX : 4148, Safat Kuwait  
☎ +965 22437670, 22428730,  
22450929  
+965 22402294  
✉ [contact@burganequip.com](mailto:contact@burganequip.com)

**QATAR** 

📍 P.O. BOX : 22036, Doha, Qatar  
☎ +974 44987832, +974 44310790  
+974 66003993, +974 33468825  
✉ [burganqatar@burganequip.com](mailto:burganqatar@burganequip.com)

**DUBAI (UAE)** 

📍 P.O. BOX : 47817 ,Dubai  
☎ +971 42724759  
+971 50 8708303, +971 50 9033564  
✉ [burgandubai@burganequip.com](mailto:burgandubai@burganequip.com)

**ABU BHABI (UAE)** 

📍 UNIT NO-47, MUSAFFAH  
☎ +971 564022059  
✉ [burgandubai@burganequip.com](mailto:burgandubai@burganequip.com)