BITUMAX Pro, Asphalt Binder Analyzer by Ignition Method

BITUMAX Pro is a high-precision ignition oven that can determine, in full automatic mode, the binder content of asphalt mixes in full conformance with the most common international standards. It combines an ignition oven with a continuous weighing system that monitors the loss of weight of the asphalt sample and automatically determines, at the end of the test, the binder content and percentage. An independently controlled auxiliary afterburner chamber significantly reduces the furnace emissions.

Features

- Clear and smart user interface, with new large 7" color touchscreen display, including new functions like programmable delay, to set the oven preheating.
- Fully automatic test cycle with simultaneous display of all test parameters, including weight loss and percentage of binder on the mix and on aggregates. The test results can be automatically printed by the included serial printer.
- Completely clean, thanks to the high efficiency heating system with additional afterburner, granting a complete combustion of exhaust fumes, conforming to CE prescriptions.
- Suitable for small or mobile laboratories with optional single phase power supply
- Easy test data storage and transfer, thanks to the USB connection for memory storage, Ethernet and RS232 connection for PC, external balance, and serial printer connection
- High operativity, with test time reduced to less than 40 minutes, giving the possibility to perform more than 12 tests per day.

Specifications

Oven and afterburner

Test chamber:

- 100% stainless steel

Temperature range:

- Oven: adjustable up to 650°C
- Afterburner: adjustable up to 950°C

Specimen weight: up to 5,000 g

Electronic controller specifications

- 7" color capacitive touch screen graphical display, 16M color and 800 x 480 px resolution

- 7" color capacitive touch screen graphical display, 16M color and 800 x 400 px resolution.
- Possibility to set up to 9 personalized test profiles.
- Possibility to program used custom tests with user defined oven and afterburner setpoint.
- Display of weight loss/time, weight loss gradient/time and percentage of binder/time graphs in real-time.
- Possibility the set the language among 14 pre-set languages.
- Possibility to program a delayed start of the pre-heating phase.

Connections and memory:

- On-board 40-column serial printer.
- RS232 for PC connection or external balance (see accessories) or PC connection for real-time data output.
- USB for memory stick.
- Internal memory, storage up to thousands of tests.
- Ethernet connection.

Power supply:

- 380-400 V, 50 Hz, 3 ph, 10 kW
- 220 V, 60 Hz, 3 ph, 10 kW
- 208 V, 50-60 Hz, 1 ph, 6 kW

Dimensions

- Overall: 650 mm x 980 mm x 960 mm (1090 mm with pipe) (W x D x H).
- Test chamber: 400 mm x 460 mm x 300 mm (W x D x H).

Weight: approx. 155 kg

Highlights
Efficient and maintenance-free

Ignition ovens offer an effective alternative to the traditional solvent extraction method.

Fast, it takes less than 40 minutes to automatically calculate the binder content both on the mix and on the aggregate mix. And this, safely, without any need for solvents.

BITUMAX Pro can run uninterrupted as it is almost maintenance free, whether at the end of a single test or of the test day.

Models

- 75-PV8005/ BITUMAX Pro, asphalt binder analyzer by the ignition method, complete with 7 color touchscreen display. 380-400V, 50Hz, 3ph
- 75-PV8006/ BITUMAX Pro, asphalt binder analyzer by the ignition method, complete with 7" color touchscreen display. 220V, 60Hz, 3ph
- 75-PV8002/ BITUMAX Pro, asphalt binder analyzer by the ignition method, complete with 7" color touchscreen display. 208V, 50-60Hz, 1ph

Accessories

- 75-PV0008/10/ Face shield
- 75-PV0008/14/ Additional sample basket set
- 75-PV0008/2/ Auxiliary top pan digital balance 10000 g cap. X 0,1 g sensitivity, to be connected via RS232 to asphalt binder analyser 75-B0008. 230V/50-60Hz/1ph
- 75-PV0008/5/ Metal stand

Standards

- **AASHTO T308**
- **AASHTO TP53**
- **ASTM D6307**
- **EN 12697-39**