

## ABA – Asphalt Binder Analyser

**The ABA 7/35B is designed to measure the asphalt binder content of hot mix asphalt as well as warm mix asphalt using loss on ignition, in accordance with AASHTO T 308-10, ASTM D6307-10 & BS/EN 12697-39:2012.**

The integral microprocessor driven weighing and calculation system is flexible enough to handle local variations upon the standard test method. Test result reports are available in both printed and software format. The high temperature afterburner minimises the production of noxious fumes. Supplied complete with 2 sets of sample baskets

### Standard features

- Designed to measure asphalt binder content by loss on ignition
- Avoids the health, environmental & waste management issues & expense associated with the older solvent extraction methods
- Reduced emissions due to high temperature afterburner
- Controlled via a multi-lingual touchscreen interface
- Supplied as standard with English, Spanish, French, Chinese, Italian & Russian language display & other languages available to order
- Automatic calculation of final sample weight & binder % result
- Adjustable aggregate correction factor
- Precise weight measurements displayed to 0.1 g resolution
- Has the capacity for large sample sizes for more accurate results (maximum sample is 4.5 kg)
- Average test times from 20 mins for 6 mm aggregates, to 45 mins for 40 mm aggregates
- Permanent (dot-matrix) printed reports with user configured timing
- USB data output compatible with most spread sheets
- Easy naming, storage & recall of recipes that can be easily transferred between ovens
- Simplified menu structure with secure 'Supervisor' & 'Operator' settings



- 1 Integral fan assisted high-temperature afterburner greatly reduces emissions
- 2 Safety circuits warning lamps
- 3 Rapid heating main chamber with robust wire elements
- 4 Integral balance measures loss on ignition to 0.1 g resolution
- 5 Automatic capture of weight data is possible from external balances
- 6 Optional flat pack floor stand
- 7 Control panel with:
  - Printer on/off switch
  - Safety circuits test switch
  - Oven on/off switch
  - Afterburner heating lamp
  - Main chamber heater lamps
  - USB data output
- 8 Printer

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**Safe robust design**

- Failsafe door interlock keeps the door locked during a test even in the event of a power failure, protecting the operator from the burning test sample
- Electrical supply is isolated from the heating elements when the door is opened
- Afterburner temperature is controlled independently from the main chamber
- Automatic capture and calculation of values minimises human errors
- Double skin construction gives safe external surfaces
- Corrosion resistant, stoved epoxy finish for a long working life
- Rapid heat up rate enables the ABA to be switched off between tests, reducing power consumption
- Low thermal mass insulation & efficient element designs means that the ABA is ready to use in approximately 30 minutes
- Internal balance is easily calibrated in position using a 5 kg standard calibration mass

**Options** (specify these at time of order)

- Factory fitted thermocouple access port
- 'Flat pack' floor stand
- Sample cooling stand
- Additional sample baskets
- Metal extraction pipe
- Touchscreen protection film
- Gloves
- Face shield



basket set & red cooling cage



sample cooling stand with personal protective equipment

**Technical data**

Model	Max temp (°C)	Dimensions: Internal H x W x D (mm)	Dimensions: External H x W x D (mm)	Max power (W)	Thermocouple type	Weight (kg)
<b>ABA 7/35B</b>	750	220 x 350 x 450	980 x 600 x 775 (Bench-top or optional stand)	8000	K	120

**i** Please note:  
 - The oven is rated at 8 kW for operation on 208/240 V, 50/60 Hz, three or single phase. Please state mains supply when ordering  
 - The oven holding power is approximately 3 kW