



Binder Ignition Oven



The Binder Ignition oven is a simple, manually operated oven that determines asphalt content. Samples are processed in 30-45 minutes where samples larger up to 3,000g or more require longer times. Process times are comparable to automatic-weighing units and results equal or exceed the accuracy of automated systems.

During a test an asphalt sample is heated until the binder portion ignites. The oven doors stay locked during operation until a safe temperature is reached during the cool-down process. The temperature rises above setpoint, peaks and then gradually returns to setpoint as residual products are burned off. To determine the decoking period to program a new mix, a sample is returned to the oven for 5 to 10 minute periods until completion is confirmed by a stable total weight. When asphalt ignites and burns volatilized components of the binder get carried by the exhaust stream into the high-temperature afterburner chamber and are completely oxidized. Room air is drawn in and quickly cooling down the exhaust for safe discharge to the outside. Particle matter that is left over is captured in the disposable in-line filter.



Features:

- Stainless steel case w/ drop door that serves as a shelf
- Heating elements are quality Kanthal A-1
- Controller with memory for up to 10 timed programs
- Operates on 240V, 1-Phase, 50/60Hz power supply
- Easily field-converted for voltages 208 to 380

Included Items:

- Two sample baskets
- Basket cover
- Sample tray
- Tray handling fork
- Two ceramic hearth plates
- Exhaust filter
- Filter holder