



ADVANCED PAVEMENTS TESTING SYSTEMS

**RTFOT**

Rolling thin-film oven

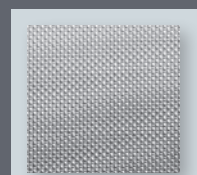


# Determination of the resistance to hardening under the influence of heat and air

**Standards** ASTM D2872 | AASHTO T240 | EN 12607-1

## Main Features

- > Touch-screen display with 4.5" color control panel, including timer function, visual warnings and digital air flow indicator.
- > Full conformity to temperature specifications (time to reach target temperature after switch on, target temperature adjustment after samples insertion) from the Standards.
- > Carousel rotation with closed-loop controlled speed.
- > **Safety features:** Automatic over-temperature switch, door switch, pilot lamp and alarm for door open with fan still running; magnetothermic switch.
- > High quality stainless steel structure, internal and external.
- > Door with double-glazed window.
- > Door locking system allowing easy opening also with busy hands.



*Detail of external stainless lining "linen patterned" resistant to scratches and shocks*

## Bitumen ovens for rolling thin-film oven test (RTFOT)

Two versions are available:

### **81-PV1612**

Conforming to ASTM/AASHTO standards

### **81-PV1622**

Conforming to EN standard

The only difference between the two models is the inside dimension of the testing chamber.

These ovens are used for measuring the effect of heat and air on a moving film of semi-solid bituminous materials. The internal chamber is made from stainless steel, insulated with fiberglass or similar, with an external frame made from engine-turned stainless steel and a door with a centrally located window.

Special attention has been given to the safety features which conform to CE requirements. The oven is supplied complete with digital flow meter, ASTM 13C thermometer and 8 heat resistant glass containers (64 mm high x 140 mm diameter).

The oven must be connected to a compressed air source supplying two bar maximum pressure. If not available in the laboratory, we recommend the 81-PV0161/12 Diaphragm pump. Please refer to the accessories section to the right.

The ASTM and EN versions are basically identical except for a small difference of the internal dimensions of the testing chamber.

Power: 3,000 W

External dimensions: 750 x 750 x 900 mm (W x D x H)

Weight: approx. 50 kg

### Ordering information

#### ASTM/AASHTO versions

### **81-PV1612**

RTFOT, Bitumen oven for rolling thin film oven test. ASTM version.

230 V, 50 Hz, 1 ph.

### **81-PV1613**

As above but 220 V, 60 Hz, 1 ph.

### **81-PV1614**

As above but 110 V, 60 Hz, 1 ph.

#### EN version:

### **81-PV1622**

RTFOT, Bitumen oven for rolling thin film oven test. EN version.

230 V, 50 Hz, 1 ph.

### Accessories

#### Diaphragm pump

### **81-PV0161/12**

Free air displacement 6 liters/min, maximum pressure 2.4 bar (when used as an air compressor).

Power: 65 W

Weight: approx. 1.9 kg

### **81-PV0161/13**

Scraper for RTFOT bottle.

### **81-PV0161/14**

Metal rack for holding/cooling RTFOT bottles.

### **81-PV0161/15**

RTFOT bottle tong.

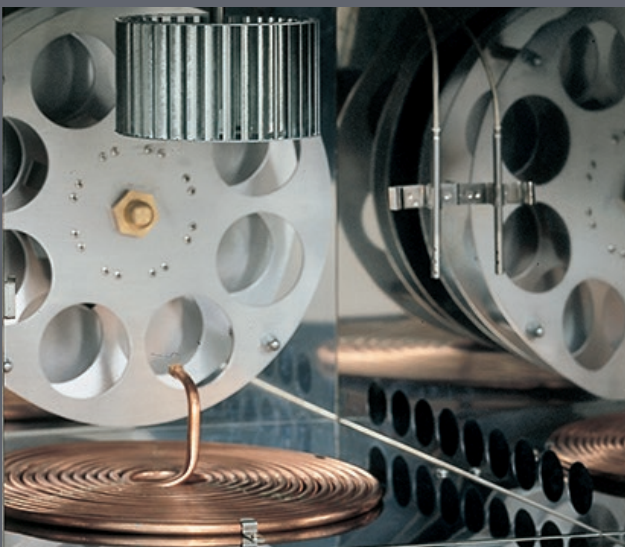
### Spares

### **81-PV0161/10**

Spare glass container

### **82-PV0160/10**

ASTM 13C Thermometer, +155 to +170°C, 0.5°C divisions.



Door locking system allowing easy opening also with busy hands

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