Vacuum Pyknometer Test Set

LT-AS0125/S | Uncompacted bituminous mixtures

Stainless steel pyknometer • Controlled vacuum • Mechanical agitation



10 L

PYKNOMETER CAPACITY

70 L/min

LT-G0210 PUMP FLOW RATE

Asphalt mix design • Theoretical maximum specific gravity and density

LT-AS0125/S

Photograph and Vacuum System Components

Pyknometer, shaker, pump, gauge and hose connections

The set removes trapped air from uncompacted asphalt mixture using vacuum and mechanical agitation. The 10 L pyknometer works with a pump and gauge. Subsequent weighings support maximum density calculation.

PYKNOMETER BODY

The 10 L stainless steel vessel holds the specimen. Check lid and connection sealing.

MECHANICAL SHAKER

Moves the specimen inside the vessel to support release of trapped air.



VACUUM PUMP

Reduces pressure inside the pyknometer and removes air.

VACUUM GAUGE

Allows vacuum level monitoring. Select the pressure condition under the test method.



Vacuum gauge and lid connection



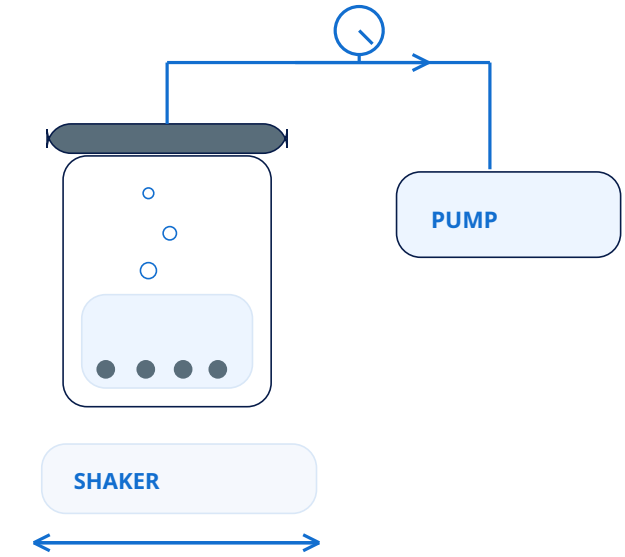
Vacuum pump detail

LT-AS0125/S

Deaeration by Vacuum and Agitation

Prepare specimen • Check sealing • Apply vacuum • Weigh

PYKNOMETER + SHAKER + VACUUM LINE



VACUUM AND AGITATION RELEASE TRAPPED AIR

PRESSURE • TIME • MOVEMENT • TEMPERATURE

UNCOMPACTED ASPHALT SPECIMEN

Perform method-specified weighings after deaeration

REPRESENTATIVE VACUUM SYSTEM • NOT TO SCALE

Prepare and Connect

Prepare the specimen under the method. Check the pyknometer, hoses and vacuum connections.

Apply Vacuum and Agitation

Apply method-specified pressure and time. Agitate to support release of air bubbles.

Weigh and Calculate

Complete the required weighings after the vacuum stage. Calculate maximum density.

Vacuum reduces pressure while mechanical agitation helps release air bubbles trapped in the specimen. Maximum specific gravity and density are calculated from the masses specified by the test method after deaeration.

Pyknometer and Supporting Equipment

LT-AS0125 is the 10 L pyknometer. LT-G0022 shaker, LT-G0210 pump, 1.5 m hose and gauge complete the vacuum arrangement. A 250 ml filter flask is also listed.

Pump flow is 70 L/min. Gauge range is 1000 mbar with a Ø63 mm dial. These equipment ratings do not specify the required test vacuum pressure.

Test Conditions and Result Records

Control pressure, vacuum duration, preparation and temperature under the selected method. Verify sealing of the lid, hose and connections.

Record dry specimen mass and required pyknometer weighings. Calculate under ASTM D2041/D2041M, EN 12697-5 or AASHTO T209.

LT-AS0125/S

Set Components and Technical Specifications

LT-AS0125/S • Pyknometer, shaker, pump and accessories

Product Code	Component	Capacity / Range	Dimensions (cm)	kg
LT-AS0125	Pyknometer	10 L	Ø30 × 45	8
LT-G0022	Shaker	-	51 × 51 × 37	24
LT-G0210	Vacuum pump	70 L/min	31 × 13 × 23	7
LT-G0210/1	Vacuum hose	1.5 m	-	-
LT-G0210/2	Gauge	1000 mbar	-	0.15
LT-G0093	Filter flask	250 ml	19 × 19 × 31	0.2

Set / Operating Information	Value / Description
Complete Set Code	LT-AS0125/S
Shaker and Pump Supply	220 V • 50-60 Hz • 1 phase
Vacuum Gauge Dial Diameter	Ø63 mm
Maximum Density Methods	ASTM D2041/D2041M • EN 12697-5 • AASHTO T209

Select Test Vacuum Independently of Pump Flow Rating

Pump flow and gauge range do not define test pressure. Obtain pressure, time and temperature from the method and complete weighing and calculation under the same procedure.

From Specimen to Maximum Density Result

01
Prepare
Prepare specimen and pyknometer under the method.

02
Connect
Seal the lid and vacuum line connections.

03
Deaerate
Apply method-specified vacuum and agitation.

04
Calculate
Calculate from the required weighings.

Product Page | liyatest.com.tr/en/urun/vacuum-pyknometer-test-set/