Binder Recovery Apparatus

LT-AS0069 | Vacuum-assisted solvent removal system

Digital thermostat • Water bath • Vacuum pump and gauge



15 L

WATER BATH CAPACITY

1500 W

RATED POWER

Binder-content procedures associated with EN 12697-1

LT-AS0069

Photograph and System Components

Water bath, glassware, vacuum gauge and pump

The binder recovery apparatus assists removal of solvent from binder-solvent solutions. Its thermostatically controlled water bath and vacuum system manage operating conditions during binder-content analysis.

WATER BATH

The 15 litre bath provides a controlled heating environment for the glass vessels.

DIGITAL THERMOSTAT

Set and monitor bath temperature through the front panel.



GLASS VESSELS

Two 250 ml flat-bottomed flasks connect to the system through tubing and fittings.

VACUUM SYSTEM

The pump creates reduced pressure; the gauge allows operating pressure to be monitored.



Glass vessels and connections in the water bath



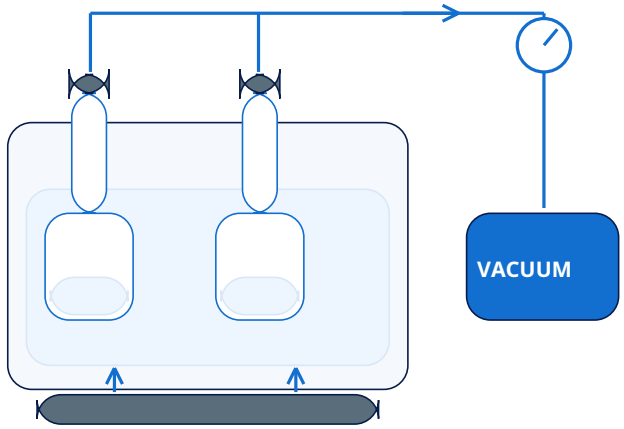
Vacuum pump and pressure gauge

LT-AS0069

Vacuum-Assisted Solvent Removal

Prepare • Heat • Apply vacuum • Evaluate

WATER BATH + GLASSWARE + VACUUM



WATER BATH

THERMOSTAT: CONTROLS BATH TEMPERATURE

VACUUM: SUPPORTS SOLVENT REMOVAL

APPARATUS FOR BINDER-CONTENT PROCEDURES

Processing under controlled heat and pressure

REPRESENTATIVE SYSTEM DIAGRAM • NOT TO SCALE

Prepare Glassware and Lines

Check glassware and stoppers. Connect tubing and prepare the specimen as specified.

Set Temperature and Vacuum

Check water level. Manage temperature and pressure according to the test method.

Complete and Evaluate

Finish the procedure as specified. Record relevant masses and operating conditions.

The water bath supplies controlled heat to the glass vessels. The vacuum pump creates reduced-pressure conditions to assist solvent removal from the binder-solvent solution. Monitor temperature and pressure and evaluate results using the applicable test method.

Use in Binder-Content Analysis

The apparatus assists solvent removal during soluble binder-content procedures associated with EN 12697-1. Define specimen preparation, mass readings and the end of processing according to the method.

Record temperature, vacuum and duration. Account for moisture and mineral matter corrections in the relevant calculations.

Connection Checks and Shutdown

The set includes a 1000 ml Erlenmeyer flask, two 250 ml flat-bottomed flasks, a vacuum gauge and pump. Support glassware correctly and check tubing and stopper connections.

Handle solvent under suitable local exhaust. Switch off and equalise pressure in a controlled manner; allow the system to cool before separating glassware.

Technical Specifications and Set Contents

LT-AS0069 | Water bath, vacuum system and glassware

Set Component	Quantity / Description
Vacuum Pump	For vacuum-assisted operation
Vacuum Gauge	For monitoring system pressure
Tubing and Connections	2 m tubing • Required connection fittings
Erlenmeyer Flask	1000 ml • Rubber stopper
Flat-Bottomed Glass Flasks	2 × 250 ml • Rubber stoppers

Technical Specification	Value / Description
Product Code	LT-AS0069
Water Bath Capacity	15 litres
Main Unit Dimensions	500 × 400 × 300 mm
Listed Weight	9 kg
Power Supply	220 V, 50 Hz
Rated Power	1500 W
Bath Control	Digital thermostat • Covered water bath

Glass Connections, Water Level and Pressure

Check glassware and tubing connections. Maintain an appropriate bath water level; set temperature and vacuum according to the method and record operating conditions.

From Solution to Binder Analysis

01
Prepare
Connect glassware and prepare the specimen.

02
Heat
Set bath temperature as specified.

03
Apply Vacuum
Monitor pressure and remove solvent.

04
Evaluate
Record relevant masses and conditions.

Product Page | liyatest.com.tr/en/urun/binder-recovery-apparatus/