



PT-LT Leak Test Apparatus

The **PT-LT** is used to test for the integrity of packed strips, blisters and small sachets containing tablets, granulates, liquids and so on. The instrument is used to test the quality of the packaging process and to check that the seals enclosing the product are perfectly intact. The PT-LT Leak Tester is designed to find the smallest holes and imperfections in blister packs and other semi-rigid product packaging.

The Leak Test Apparatus is widely applied in the pharmaceutical industry for checking strips, blisters and bottles containing tablets, capsules, syrups and so on. It also find application in the food industry where it can be effectively used to check the air-tightness of sweet packets, ready-to-eat pre-packed foods, confectionery packaging, packs of noodles, sauces to name but a few.

Samples are placed into the desiccator's housing and the lid is placed in position. The pump starts to produce a vacuum inside the desiccators and the vacuum is held for a pre-set time.

The first issue is that the tested package should keep its shape during this test, otherwise the sealing is not correct. Secondly, as the package is immersed in a coloured dye solution (normally Methylene Blue), the venting of the desiccators will allow any holes to be penetrated by the dye stuff and the contents of the flexible packaging will also be stained with the same colouring material.

Operation of the PT-LT Leak Tester

The operation of the PT-LT Leak Tester could not be easier. Once on and the sample placed in position, use the SET key and load in your “User ID”. Once this has been entered, press the SET key once again and you can load in the “Sample ID”. This is an alphanumeric entry which can be up to 8 characters long. Using the SET key once again allows you to enter the “Number of Samples”. Now enter the “Batch Number” (with up to 8 characters) and then the “Vac Set” level which is up to a maximum of 699mmHg. Finally, use the SET key to enter the “Hold Time” (up to a maximum of 99 minutes). Now press the ENTER key to accept the entered data.

Pressing the RUN key will now actuate the programmed sequence. The vacuum pump now generates a vacuum in the desiccators, holds it and then releases it using the time periods entered in the program.

Typical Results

A typical print out is illustrated below. All results are presented in a convenient data block:

LEAK TEST APPARATUS	
SERIAL NO. 0711120 MODEL NO. PT-LT	
TEST REPORT	
DATE	: 08-04-2008
TIME	: 11:42
USER ID	: 944888
SAMPLE ID	: TEST
NO. OF SAMPLES	: 01
BATCH NO.	: 20711120
SET VACUUM :	500mmHg
SET TIME	: 05 MINS
TRIP VAUUM :	498mmHg
REMARKS	: ACCEPTED
	: REJECTED
SIGNATURE	:

The PT-LT offers the following features:

- Fully automated microprocessor controlled equipment
- 16 x 2 cm Large LCD
- Display shows Vacuum and electronic countdown timer
- Enter all test parameters such as Date, time, user ID and sample ID
- No. Of samples and batch number can be set via the keypad

- Set vacuum and trip vacuum can be set via the keypad
- Built-in rugged, oil-free vacuum pump
- Automatic slow vacuum release from the desiccators
- Printer Port for PCL printers
- All IQ and OQ documentation supplied FOC as standard

Technical specifications

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|---------------------|---|
| • Vacuum Level | Better than 600mmHg |
| • Timer | Can be set up to 99 minutes |
| • Vacuum Setting | Vacuum can stabilise for a set value from:
Less than 400mmHg \pm 10mmHg within 30 seconds
Above 400mmHg \pm 5mmHg within 30 seconds |
| • Desiccators sizes | 250 mm - 200mm - 150mm |
| • Power | Nominal 220 – 240V |
| • Size | 400mm x 240mm x 220mm (D x W x H) |
| • Weight | 13Kg (Net) |

We reserve the right to make technical changes without any prior notice