

# VIBRATION TABLE

(AS PER IS 2798:1998)

(MACHINE FOR PERFORMING VIBRATION TESTING OF PET BOTTLES )

## PRIORITY SOLUTIONS

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## **Purpose of Machine**

This machine helps to determine the ability of a closure (or a container) to prevent leakage due to the transport vibration.

### **VIBRATION TABLE IS 2798: 1998**

The vibration table is driven by Cam that ensures that the difference in surface level between the table extremities shall not exceed 10mm. The equi-length Chrome shafts transmits motion in such a manner that the top surface is always horizontal during vibration.

### **PROCEDURE**

Fill the container to its nominal capacity with the product or colored water and close it with the usual closure in the manner in which it is intended to be used. Place the test container in the center of the vibration table. The container may be secured by fastening Steel Cage of appropriate size to avoid falling of the same during testing cycle.

**Operate the table between 3,4 and 6Hz ( 180, 240 and 360 RPM) for the predetermined period to give a peak acceleration in the range of 0.5 to 1.1g ( 4.9 m/s<sup>2</sup> to 10.78 m/s<sup>2</sup>).**

### **NOTE:**

**The Vibration meter knob is to be placed at space provided at the top vibrating plate. For testing at 1.1g (10.78 m/s<sup>2</sup>) the proper frequency setting may be determined by starting the vibration of the table at a frequency of about 2Hz(120 RPM), and steadily increasing the frequency so as to have acceleration near to 1.1g (10.78m/s<sup>2</sup>), that ensure that the container receives a continuous series of repetitive shocks.**

<b>MODEL</b>	PS-045-2021
<b>SUPPLY VOLTAGE</b>	440 V AC,50 Hz ±5%
<b>CURRENT CONSUMPTION</b>	2.5 AMP
<b>WATTAGE</b>	750 WATT
<b>CONTROL VOLTAGE</b>	24V DC ±10%
<b>WORKING FREQUENCY RANGE</b>	2 TO 8 Hz
<b>VARIABLE SPEED CONTROL</b>	AC DRIVE
<b>VIBRATION AMPLITUDE CONTROL</b>	CAM BASED FIXED
<b>VARIABLE CYCLE TIME</b>	DIGITAL TIMER CONTROL
<b>CAPACITY OF MACHINE</b>	100 ML TO 2 LTR
<b>DIMENSIONS</b>	800 x 800 x 1400 mm
<b>PEAK ACCELERATION RANGE</b>	0.5 to 1.1g ( 4.9 m/s <sup>2</sup> to 10.78 m/s <sup>2</sup> )

**AT THE END OF THE TEST PERIOD, THE CLOSURE SHALL SHOW NO INDICATION OF LEAKAGE.**