

THE ULTIMATE CONTROL FOR YOUR RICE TEST

The AutoRice from InstroTek is an automatic control unit for the Maximum Specific Gravity test. It is widely known that the theoretical maximum specific gravity (Rice test) is one of the most important tests in the asphalt industry. Rice test results are critical for pavement quality, mixture design and laboratory mixture performance determination.

The AutoRice controller is designed to accurately control and monitor the three most important factors of the Rice test: vacuum pressure, vacuum time, and shaker vibration frequency. Laboratory technicians can now conduct this test with the press of a button and accurately achieve the exact settings for conducting the maximum specific gravity test. The AutoRice will start the vacuum pump, regulate the vacuum pressure, precisely control the vacuum time, and monitor the shaker frequency. The AutoRice shaker frequency and acceleration monitor is a parameter that is not currently monitored during the test. Inconsistency between shakers used in different labs can result in poor inter-laboratory repeatability. Monitoring the frequency, acceleration, and controlling vacuum pressure during the test can help agencies and contractors achieve better accuracy and repeatability.

Data from the Rice test can be downloaded via the integrated USB port and can be reviewed on a computer to assure accuracy and adherence to the specifications. The AutoRice is designed to fit on the benchtop or mount to a wall. Automate and increase the repeatability and accuracy of your tests with the all new InstroTek AutoRice controller.



ADVANTAGES

- ▶ Controls and monitors Rice test (AASHTO T209 & ASTM 2041) vacuum pressure and vacuum time
- ▶ Reduces operator errors by automating test parameters; improving accuracy and repeatability
- ▶ Measures shaking frequency and acceleration to prevent stripping damage to the sample
- ▶ Automates saturation process for AASHTO T283 (Moisture damage)
- ▶ Provides capability to enter weights and calculate max specific gravity results
- ▶ Replaces digital vacuum gauge used in Rice setup
- ▶ Stores test records (vacuum pressure, vacuum time, frequency, & acceleration)
- ▶ Test data can be shared and emailed for review
- ▶ Easy setup with menu driven software

AutoRice™

SPECIFICATIONS

Foot Print	12" x 9" x 4" (30 x 22 x 10 cm)
Weight	5 lbs (2.5 kg)
Power Supply	110/220V
Hose Connection	3/8" hose barb
Max Pump Power	3/4 HP
Vacuum Control	±0.4 mmHg at 27.5 mmHg

