

RC4500 Testimonial

Following are comments from a customer who purchased the Vinci RC4500 Centrifuge in 2015, per a letter sent to Vinci. Although we cannot share the name of the customer, we are pleased to be able to share their comments.

- Tests can be carried out at atmospheric pressure or by applying an overburden pressure whose value ranges from 500 psi to 5000 psi. The ability to vary this quantity is a great feature that helps to establish relationships between overburden pressure and rock and fluid properties.
- The device is impressively stable, with a 50 rpm minimum rotation speed; i.e. 1 % of the maximum operating speed. This is particularly useful for visualizing capillary hysteresis during drainage and imbibition, which can occur at very low values of capillary pressure.
- A greater capillary pressure precision can be obtained as the speed is incremented by +/- 1 RPM.
- Whereas most centrifuges can hold up to three core holders per run, the RC4500 can house 2, 4 or 6 core holders which saves time and eliminates the risk of repeatability error.
- Versatility is one of the keywords used to describe this device. For both atmospheric and overburden tests, the same rotor is used for drainage and imbibition, and can be accommodated for three sample diameters: 1", 1.5" and 30 mm and with lengths of up to 4".
- The proprietary software is a great aid to the accuracy of the results as it automatically detects fluid levels on the camera and calculates the average water saturation.
- By inputting the sample's geometric parameters, the software takes into account capillary end effects to determine the local water saturation.
- The powerful data interpretation package produces an asymptotic fit of the produced liquid volume giving the option of early run termination.
- By use of the Hagoort method, a relative permeability versus saturation curve for the displaced fluid can quickly and easily be modeled.
- In addition to all these great features, the RC4500 is the most affordable centrifuge on the market and the Vinci Engineering team has time and time again proven to be highly responsive and reliable.