



Test Smart. Test with Confidence. Test for Success.

ROWE CONSOLIDATION FLOWTRAC II OR III

The hydraulic consolidation system (Rowe Cell system) is used because of its multiple drainage (up to eight conditions) options as well as the capability to test large diameter samples using water pressure on a flexible diaphragm. Furthermore, free strain and equal strain can be applied on the top of the sample through a flexible platen or a rigid one. The FlowTrac II or III flow pumps automate the entire consolidation test using conditions specified, with typical completion in 24 to 48 hours. The system automatically initializes, back pressure saturates, and consolidates incrementally without intervention by the user.

- **Volume capacity of 200, 250, 280, or 750 cc**
- **Pressure options of 150 or 200 psi**
- **Unmatched automation from test start to finish - 2 to 32 times faster results and labor time savings of 30% to 95% vs. manual testing**
- **Flexible design - perform additional testing on the same platform and save money and space in your lab**
- **Full test control and remote monitoring allows you to take your testing on the go - view real-time results, check test quality, and change parameters**
- **Convenient reporting - produce complete, compliant reports instantly or export data for desired manipulation**
- **Designed for consistent and repeatable testing you can be confident in**



Standard Rowe Consolidation System

Applicable Test Standards

- ASTM D2435, D4186
- BS 1377-6
- ISO/TS 17892-5

ROWE CONSOLIDATION FLOWTRAC II OR III

TECHNICAL SPECIFICATIONS

PRESSURE/VOLUME CAPACITY

150 psi (1035 kPa), 200 psi (1400 kPa)

200 cc (6.7 fl oz), 250 cc (8.5 fl oz), 280 cc (9.5 fl oz), 750 cc (25.4 fl oz)

MOTOR

Micro-stepper system with built-in controls

FLOW RATE

Min speed 0.0003 cc/min 0.00001 fl oz/min

Max speed 1054 cc/min 36 fl oz/min

POWER

110/220 V, 50/60 Hz, 1 phase

DIMENSIONS

FlowTrac II 203 x 406 x 470 mm (8 x 16 x 18.5 in)	FlowTrac III 203 x 457 x 260 mm (8 x 18 x 10.25 in)
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WEIGHT

FlowTrac II 14 kg (30 lbs)	FlowTrac III 11 kg (25 lbs)
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INCLUDED

- Geo-NET network card and cable to link to PC
- RCON software module to automatically run and report tests

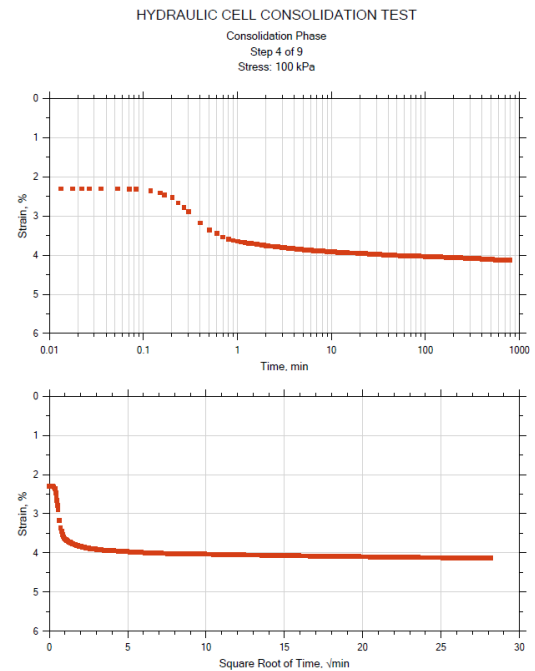
ACCESSORIES

- Rowe Cell Options:
- Sample diameter 63.5 mm (2.5 in) sample height 30 mm (1.2 in)
 - Sample diameter 150 mm (6 in) sample height 50 mm (2 in)

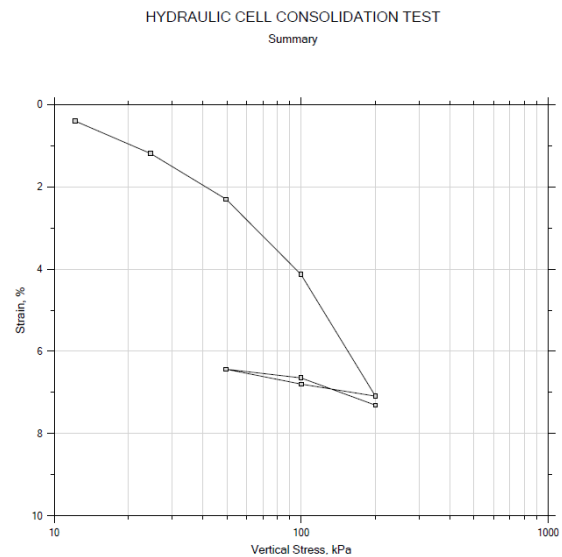
WARRANTY

- 12 month warranty; extended warranties available

Typical Test Output (example)



Typical Test Output (example)



		Before Test	After Test
Current Vertical Effective Stress: 100 kPa		19.10	14.96
Preconsolidation Stress: 70 kPa		13223	14265
Compression Ratio: 0.3		53.52	49.41
Diameter: 151.3 mm		0.93	0.79
Height: 43.56 mm			
LL: ---	PL: ---	PI: ---	GS: 2.60

Project: RCON123	Location: Labtown, USA	Project No.: ABC123
Boring No.: 3A	Tested By: ee	Checked By: hu
Sample No.: 1	Test Date: 02/20/2018	Depth: 5 ft
Test No.: RC01	Sample Type:	Elevation: --
Description: Rowe Consolidation		
Remarks:		

User Friendly Interface

RCON

File View Run Calibrate Control Report Options Help

Project Specimen Water Content Read Table TestParameters Initialization Saturation Consolidation Table

Start Phase: ☒ Initialization
☐ Saturation
☐ Consolidation

Overburden Pressure: kPa

Preconsolidation Pressure: kPa

Compression Index: