

# FULLY AUTOMATED PERMEABILITY LOADTRAC II / FLOWTRAC II OR III

The LoadTrac II / FlowTrac II or III system provides a unique and versatile way to run permeability tests on a wide variety of materials quickly and accurately. This system automates the initialization, saturation, consolidation (isotropic, anisotropic, and  $K_o$ ) and flow phase by adjusting the gradient or the flow rate across the sample. The system can measure permeabilities varying from  $10^{-4}$  cm/sec to  $10^{-9}$  cm/sec. With the appropriate test cells, this one system can determine the permeability of silts and clays within minutes.

- **Load capacity of 45 kN (10 klbf) or 90 kN (20 klbf)**
- **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**

## Applicable Test Standards

- ASTM D2434, D5084
- BS 1377-6
- ISO/TS 17892-11



Standard Permeability System

# FULLY AUTOMATED PERMEABILITY LOADTRAC II / FLOWTRAC II OR III

## TECHNICAL SPECIFICATIONS

### LOAD CAPACITY

45 kN (10 klbf) or 90 kN (20 klbf)

### MOTOR

Micro-stepper system with built-in controls

### RATE OF DISPLACEMENT

0.00003 to 25 mm per minute  
(0.000001 to 1.0 in per minute)

### PRESSURE/VOLUME CAPACITY

150 psi (1035 kPa), 200 psi (1400 kPa), 500 psi (3500 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)

### FLOW RATE

Min Speed 0.0003 cc/min    0.00001 fl oz/min  
Max Speed 1054 cc/min    36 fl oz/min

### TRAVEL

Built-in displacement transducer with 76 mm (3 in) range and 0.0013 mm (0.00005 in) resolution

### DIMENSIONS

| LoadTrac II                                  | FlowTrac II                              | FlowTrac III                              |
|--|--|---|
| 464 x 546 x 1206 mm<br>(18 x 21.5 x 47.5 in) | 203 x 406 x 470 mm<br>(8 x 16 x 18.5 in) | 203 x 457 x 260 mm<br>(8 x 18 x 10.25 in) |

### WEIGHT

| LoadTrac II     | FlowTrac II    | FlowTrac III   |
|-----------------|----------------|----------------|
| 55 kg (120 lbs) | 14 kg (30 lbs) | 11 kg (25 lbs) |

### INCLUDED

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

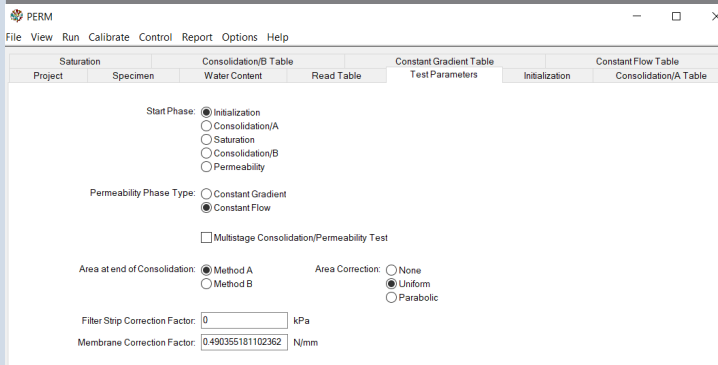
### ACCESSORIES

- Triaxial cells up to 152 mm (6 in) diameter, membranes, porous stones, and sample preparation accessories upon request
- TRIAXIAL.REPORT: editing/reporting software for multiple tests

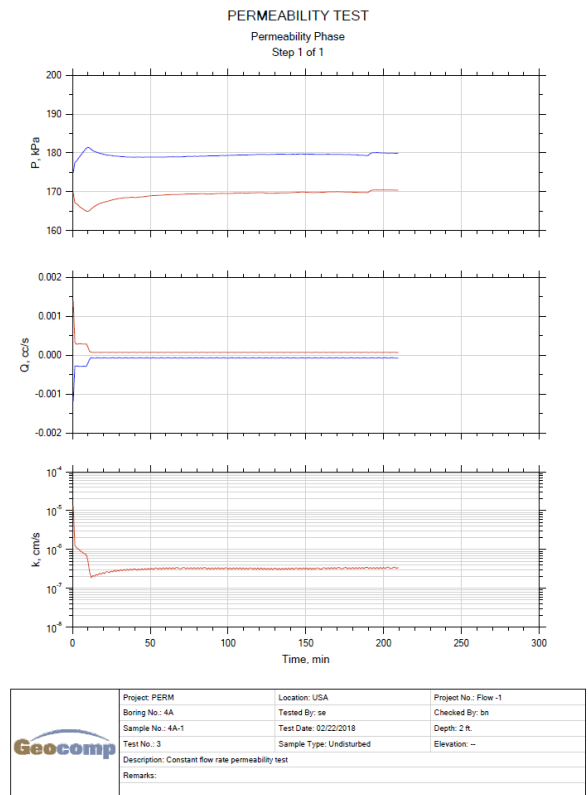
### WARRANTY

- 12 month warranty; extended warranties available

## User Friendly Interface



## Typical Test Output (example)



## Typical Test Output (example)

