

SEMI-AUTOMATED PERMEABILITY

FLOWTRAC II OR III

The FlowTrac II or III flow pumps provide a unique and versatile way to run flexible wall permeability tests on a wide variety of materials quickly and accurately. By adjusting the gradient or the flow rate across the sample, the system can measure permeabilities of cohesive soils varying from 10^{-4} to 10^{-9} cm/sec. With the appropriate test cells, this one system can determine the permeability of some silty clays within minutes.

- Volume capacity of 200, 250 or 750 cc
- Pressure options of 150 or 200 psi
- Built in safety features
- Smart and sophisticated technologies to simplify testing
- Repeatable, reliable, and accurate results you can trust
- Real-time and remote test parameter changes for quality control
- Convenient reporting and data export
- Faster, smarter, better: designed with full automation and manual control options
- Easy upgrade to perform additional test types
- Designed and manufactured in the USA



Semi-Automated Permeability System

Applicable Test Standards

- ASTM D5084

SEMI-AUTOMATED PERMEABILITY FLOWTRAC II OR III



TECHNICAL SPECIFICATIONS

PRESSURE/VOLUME CAPACITY

150 psi (1035 kPa); 200 cc (6.7 fl oz)
 200 psi (1400 kPa); 250 cc (8.5 fl oz)
 200 psi (1400 kPa); 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) |
|---------------------------------------------------------|-----------------------------------------------------------|

WEIGHT

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

INCLUDED

- GeoNet-U USB 2.0 network adapter and cable to link to PC/laptop
- Software module to automatically run and report tests

ACCESSORIES

Permeability cells, membranes, porous stones, and sample preparation accessories upon request

WARRANTY

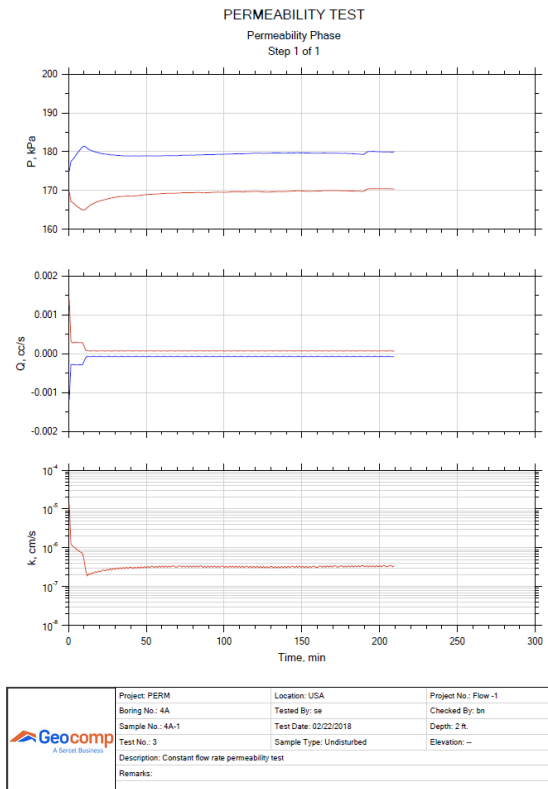
12 month warranty; extended warranties available

User Friendly Interface

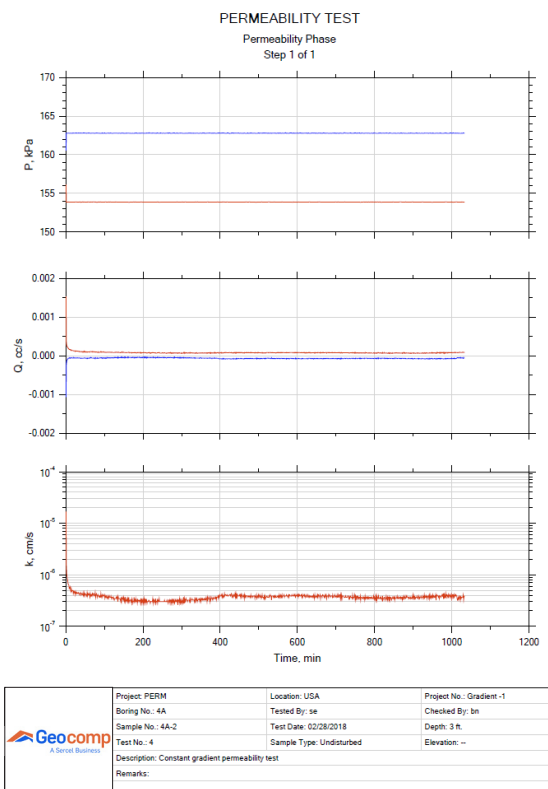
File View Run Calibrate Control Report Options Help

| Project | Specimen | Water Content | Read Table | Test Parameters | Initialization | | |
|------------|---------------------|-------------------|-------------------------|---------------------|------------------|------------------|------------------------------|
| Saturation | Consolidation Table | | Constant Gradient Table | Constant Flow Table | | | |
| | Flow Rate cc/s | Allowable Error % | Maximum Duration s | Minimum Duration s | Minimum Gradient | Maximum Gradient | Minimum Effective Stress kPa |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Typical Test Output (example)



Typical Test Output (example)



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