

Temperature Controlled Triaxial System

Related Standards

British	BS1377-7 & 8 (1990), BS EN ISO 17892-9-2018-CU-CD
American	ASTM D1883-07, D2850-03A, D4186-06, D4767-11, D6927-06, D2166/2166M-13
Australian	AS1289.6.4.1, 1289.6.4.2
Hong Kong	GEOSPEC 3

The VJ Tech Pro Temperature Controlled Triaxial System is capable of providing fully automatic total and effective Temperature Controlled Triaxial testing including;

- Consolidated Drained (CD)
- Consolidated Undrained (CU)
- Unconsolidated Undrained (UU) &
- Stress Path tests

The Temperature Control Unit (TCU) is operated remotely from the PC and enables Triaxial Testing from -20°C to +80°C.



Heating and Cooling:

- The coil surrounds the sample within the Temperature Controlled Triaxial Cell
- The sample is heated or cooled via the cell fluid through a Stainless Steel coil
- Sample sizes up to 50 mm can be completely assembled, and the coil fitted afterwards

The Cell has a maximum pressure of 2000 kPa, is made of corrosion resistant materials and is insulated to protect against thermal loss.

The Pro Dual Automatic Pressure Controller is used to control and measure both Cell and Back Pressure & Volume. The Cell Pressure fluid is a 50/50 mix of antifreeze & de-aired water.

System Features

- Triaxial Testing from -20°C to +80°C
- Maximum Cell Pressure 2000 kPa
- USB or Ethernet Interface from TriSCAN Pro to PC and RS232 link from TCU to PC

Pro Instruments have;

- Up to 10 input channels between them (1 x digital & 9 x analogue)
- Integrated 7" Touchscreen Colour Display for standalone input if required
- On-board data logging with large data storage (up to 14 million records) on SD card (8 Gb)



Ordering Information

Main System Components

VJT5110-P	TriSCAN Pro 100 kN Advanced Load Frame
VJT-TEMPCO NTROL	Temperature Control Unit: Range -50°C to +200°C (200-230VAC/50-60Hz)
VJT2267D-P	Dual Automatic Pressure Controller (up to 3500 kPa/250cc per Channel)
VJT0549-TEMP	Temperature Controlled Triaxial Cell: - Up to 50 mm dia sample size - Temperature Range -20°C to +80°C - Maximum cell Pressure up to 2000 kPa

Transducers

VJT0271	LSCT Displacement Transducer (25 mm)
VJTS0366	100 kN S-Beam Load Cell
VJT0260-G	20 bar Pressure transducer (2 MPa)

Accessories

VJT0280	De-airing block with valve for pressure transducer
VJT0280-SOL	Automatic Solenoid Valve (optional)
VJT0281Q-TEMP	Adapter set to use 100 kN S-Beam Load Cell for Temperature Controlled System
VJT0520-DP	APC Water Distribution Panel (2-way)
VJT0505T	Installation Kit for Triaxial System

Software

VJT-csTRIAX	Clisp Studio Triaxial Software
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