

تخلخل سنج با هلیوم

Helium Porosimeter (SPHeP-150)



Apex technologies co., designed and constructed helium porosimeter generally based on the Boyle's and Charles' law expansion of helium gas and is used for direct grain volume and pore volume measurement using an expansion cell at isothermal conditions. A data acquisition computer available for two of these types of equipment enable the operator to fully control the post expansion and after expansion pressures of the system and even to log these data and calculate the porosity, grain density, bulk volume etc. this type of equipment is designed only for regular shape core plugs identical cylindrical. In addition, it is possible to change the type

of the core holder by a Hassler type core holder enable the operator to measure the porosity of the rock sample under the confining pressure important for some application especially gas storage purposes.

Technical Specifications:

- ✓ Keller Pressure transmitter ×1: 10 bar
- ✓ Pressure accuracy: 0.25 % full scale
- ✓ Calibration check plugs ×1 set
- ✓ Electrical controllable valves
- ✓ Manual Pressure regulator×1
- ✓ Porosity range: 0.7-40%
- ✓ Pressure indicator×1
- ✓ Dead plug×1 set
- ✓ Online software
- ✓ Core properties :
 - Core diameter: up to 1.5”
 - Core length: up to 4”