تخلخل‌سنج با هلیم
Helium Porosimeter
(HPHeP-2000)

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 Specification:

Online professional software to calculate bulk volume, pore volume, grain density, grain volume, …
Rock surrounding pressure: up to 400 bar
Expansion cell pressure: up to 150 bar
Pressure accuracy: 0.05 % full scale
Pressure regulator: up to 150 bar
Pressure transmitter: 150 bar
Pore pressure: up to 150 bar
Porosity range: 0.5-40 %
Manual hydraulic pump
Calibration set ×1 set
HP core holder ×1
Pressure gauge
Core properties: • Core length: 1- 4” • Core diameter: up to 1.5 ”

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