



The vacuum desiccators sole purpose is to capable the operator to find the porosity of rock sample using weighing approach. In details, in the first place, the weight of dry core is measured and recorded. After that, the sample is placed inside the desiccator and then vacuumed while the liquid level is well above the top of the rock sample, after that, the system is under vacuum to a point no bubble observe. At this point, the core is saturate and taken out from the desiccator. The weight of saturated sample is now measured and compared with the dry sample. The difference of these two values are the net amount of imbibed water into the core which can be converted to volume using water density used for saturation process. At this point, it would be possible to measure the porosity of the rock.



Technical Specification:

Digital balance: 1
Desiccator: 1
Vacuum pump: 1
Silica gel chamber: 1
Digital balance accuracy: 0.01 g
Vacuum gauge: 1
Valve: 1

