



1000 PRESSURE MEMBRANE EXTRACTOR 15 BAR

DESCRIPTION

The 1000 Pressure Membrane Extractor incorporates disposable cellulose membranes in the extraction of water from soil samples over a pressure range of 0 to 15 bars. A compression diaphragm in the lid holds the samples in firm contact with the membrane, ensuring proper hydraulic contact needed for the extraction process. The Pressure Membrane Extractor includes the following components: top and bottom plates, 5/8" (1.6 cm) high by 11" (28 cm) inside diameter cylinder and clamping bolts, cylinder seal O-rings, screen drain plate, compressing diaphragm, and eccentric clamping screw assembly. Connecting hoses (2 required), cut cellulose membrane discs, PM Hinge, and torque wrench with socket are ordered separately. Soil sample retaining rings and cylinders of various heights are available separately..

Specifications

Pressure Range: 0-15 bars

Weight: 72 lbs.

Dimensions: 17X17X12 inches



1000 PRESSURE MEMBRANE EXTRACTOR 15 BAR:

A common problem in soils research is determining water retention curves for various soil types. The problem is that many soils around the world that provide excellent plant growth potentials are "shrink -swell" soils. This applies to non-soil experiments where the material under study "curls" as it dries. The model 1000 is a pressure / membrane type extractor. It is designed to contain shrink-swell soils during extraction. A special EDPM rubber "hold down" diaphragm is inflated, with 4lbs (1.81Kg) of force

holding the soil in hydraulic contact with the cellulose membrane surface. The cellulose membrane material is a pure cellulose and has a pore size of 24 angstrom. The cellulose membrane can withstand over 10,000 kPa bubbling pressure. The standard model 1000 (1002G1) can test up to 12, 2" diameter x 0.39" (2.5 x 1 cm) high samples and operates in the 0 to 1500 kPa (0 to 15 bar) soil suction. Choose an optional PM cylinder height, to handle undisturbed cores up to 3 inch high.

0700G1F1 PRESSURE REGULATING SYSTEM (MANIFOLD) TO RUN 1000 EXTRACTOR

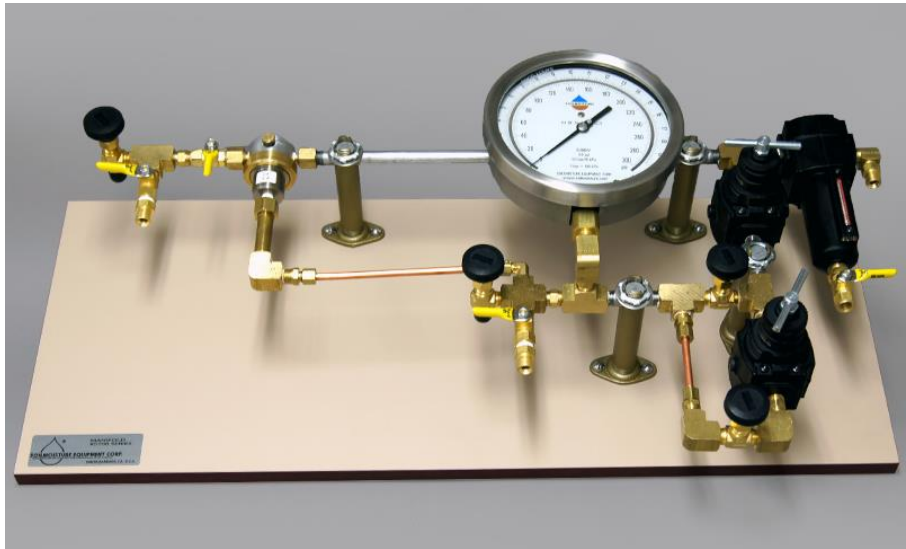
**COMPRESSOR
20BAR, 230
VOLTS, 50/60 HZ**

0500FG4 Air compressor for running Lab Setups. 20 Bar Air Compressor for running Laboratory Setups. Available 230V

Product Features:

The 0700G1F1 Pressure Control Manifold is designed for regulating and monitoring the pressure supplied to the 1000 Pressure Extractor. It combines an air filter, pressure regulators, control valves, and pressure gauges. Mounted by standoffs to a 3/4" (19 mm) thick baseboard suitable for mounting on a laboratory wall. (The Connecting Hose, 0779G1, from the manifold to the compressor is ordered separately).

Weight: 23 lbs. Dimensions: 37X19X13 inches



Contact info



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APPLICATIONS

- Soil Water Retention
- Soil Physics
- Mining

This Instrument is manufactured by our principle company

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