

## TARLA KAPASİTESİ VE SOLMA NOKTASI TAYİN SETİ LAB SETUP FOR 1500F2 & 1600F1, 220 V COMPRESSOR



### APPLICATIONS

- Soil Water Retention
- Soil Physics
- Mining

### LAB023V2 INCLUDES: (ORIGIN: USA)

- 1 EACH 1600F1, 5 BAR PRESSURE PLATE EXTRACTOR
- 1 EACH 1500F2, 15 BAR PRESSURE PLATE EXTRACTOR
- 1 EACH 0700CG23F1 MANIFOLD
- 4 EACH 0675B01M3 1 BAR PRESSURE PLATE CELLS
- 4 EACH 0675B03M1 3 BAR PRESSURE PLATE CELLS
- 4 EACH 0675B05M1 5 BAR PRESSURE PLATE CELLS
- 4 EACH 0675B15M1 15 BAR PRESSURE PLATE CELLS
- 1 EACH 1080G1 PM HINGE WITH PLATE
- 1 EACH 0775L60, CONNECTING HOSE FOR 1500 EXTRACTOR
- 1 EACH 0776L60, CONNECTING HOSE FOR 1600 EXTRACTOR
- 8 EACH 1093F1 SOIL SAMPLE RETAINING RINGS, PER DOZEN
- 1 EACH 0500FG4 COMPRESSOR 230V (INCL. CONNECTION HOSE TO MANIFOLD)



# Pressure Plate Extractors

## 1500F1 PRESSURE PLATE EXTRACTOR 15 BAR

**The world standard for obtaining water retention curves, and solution extraction**

Water relationships are among the most important physical phenomena that affects agricultural production or structural characteristics of soils. The Model 1500 is used in laboratory study of these many physical relationships, as well as the extraction of soil solution for chemical analysis. For over 60 years universities, colleges, research institutes, and commercial labs around the world continue to rely on Soilmoisture's pressure plate extractors to meet their needs. The extended height of the new Model 1500F1 now allows for 4 pressure plate cells increasing capacity by 25%. The model 1500F1 – 15 bar (1500 kPa) Pressure Plate Extractor is the flagship of moisture retention analysis in the 0 to 15 bar range (theoretical wilting point for most plants). Designed to hold up to 48 – 0.4" (1 cm) height samples, 24 – 1.2" (3 cm) height core samples or 12 – 2.4" (6 cm) height cores. Choose plate cells from 0.5 bar, 1.0 bar, 1.0 bar High Flow, 3.0, 5.0 and 15 bars to suit your needs. You'll need to have a pressure manifold available, or select from our various models in the Air Distribution & System Manifold section of the catalog -of course you'll also need a compressor or compressed air tank as well.

**SPECIFICATIONS:**

1500F1 15 BAR PRESSURE PLATE EXTRACTOR ONLY  
18" L X 17" W X 14" H (45.72 cm X 43.18 cm X 35.56 cm), Weight:94 lbs (43 kgs)

**ACCESSORIES:**

0675 PRESSURE PLATE CELLS, choose from a wide selection for your unit. (See porous ceramic section)  
1093 RETAINING RINGS, 9" L X 9" W X 1" H (22.8 cm X 22.8 cm X 2.5 cm), Weight:94 lbs (43 kgs)  
1080G1 PM HINGE, 9" L X 5" W X 5" H (22.8 cm X 12.7 cm X 12.7 cm), Weight:5.38 lbs (2.44 kgs)  
1065 ELECTRICAL LEAD THRU 9" L X 5" W X 5" H (7.6 cm X 7.6 cm X 5 cm), Weight:0.08lbs (0.04 kgs)



## 1600 PRESSURE PLATE EXTRACTOR 5 BAR

**The standard in obtaining water retention curves, solution extraction in the 0-5 Bar range**

For many, their interests are concerned in the optimum plant growth range of 0-5 Bar soil suction range. For engineers it's the wet zone where soil behavior becomes unstable. The 1600 Pressure Plate Extractor is the choice of all worldwide when there's a need for careful and precise measurement of water retention, prepping for stability tests or pore water extraction. This versatile Pressure Extractor also finds application in the calibration of various moisture-measuring equipment assuring that the readings match reality of soil moisture by volume or soil water tension. Easy to clean the epoxy coated interior and exterior complete with safety relief valve. The Model 1600 Pressure Plate Extractor allows analysis of the water-holding characteristics of soil samples in the 0 to 5 bar pressure range. The pressure vessel is 9" (22 cm) deep and has an inside diameter of 12" (30 cm). Up to 4 ceramic plates can be accommodated at one time, allowing approximately 48 each 2-1/4" (5.7 cm) diameter samples to be analyzed simultaneously. Requires a regulated pressure source for operation (see our Air Distribution and System Manifold of the catalog) and a compressor or compressed air tank.

**SPECIFICATIONS:**

1600 5 BAR PRESSURE PLATE EXTRACTOR ONLY  
16" L X 16" W X 16" H (40.64 cm X 40.64 cm X 40.64 cm), Weight:46 lbs (21 kgs)

**ACCESSORIES:**

0675 PRESSURE PLATE CELLS, choose from a wide selection for your unit. (See porous ceramic section)  
1093 RETAINING RINGS, 9" L X 9" W X 1" H (22.8 cm X 22.8 cm X 2.5 cm), Weight:94 lbs (43 kgs)  
1080G1 PM HINGE, 9" L X 5" W X 5" H (22.8 cm X 12.7 cm X 12.7 cm), Weight:5.38 lbs (2.44 kgs)  
1065 ELECTRICAL LEAD THRU 9" L X 5" W X 5" H (7.6 cm X 7.6 cm X 5 cm), Weight:0.08lbs (0.04 kgs)





## PRESSURE PLATE CELLS 0675 SERIES

- The global standard used for soil water retention measurements and extractions
- The widest selection of 0.5 bar to 15 bar
- Reusable for years of cost effective service
- Each plate tested for air entry and flow
- Fits all Soilmoisture pressure extractors and most competitive extractors

### TYPICAL APPLICATIONS



MOISTURE  
RETENTION  
CURVES



FILTERS



COLUMN  
WORK

These pressure plate cells have been the de-facto standard for the measurement of soil moisture retention studies worldwide. The development of these ceramic cells by Soilmoisture in the 1950's led to the now universally accepted method for measurement of multiple soil samples extracted on a single reusable ceramic plate. Researchers' dedication to our Soilmoisture cells is understandable. Each cell is carefully hand fabricated from our fine porous ceramic plate materials and wrapped in a tough Butyl rubber backing with a non-metallic screen support. The unit is tied around the edges with stainless steel wire. Each cell is tested at the rated air entry value to assure that there is no bleeding through the porous ceramic and there are no leaks in the rubber backing.

AIR ENTRY VALUE	DIMENSIONS/TOLERANCES						PART NUMBER
	DIAMETER		THICKNESS		WEIGHT		
	Inches	cm	inches	cm	oz	gms	
5 BAR HF	10.50	26.67	0.375	0.953	1.03	2.28	0675B0.5M2
1 BAR	10.75	27.30	0.276	0.701	1.02	2.26	0675B01M1
1 BAR HF	10.50	26.67	0.375	0.953	0.78	1.73	0675B01M3
3 BAR	10.75	27.30	0.276	0.701	1.00	2.20	0675B03M1
5 BAR	10.75	27.30	0.276	0.701	1.05	2.31	0675B05M1
15 BAR	10.19	25.88	0.234	0.594	0.81	1.80	0675B15M1

Packaged Sets of Plates are also available for your plate extractors Model 1500 and 1600.

0675 PKG1FUL 1ea. Our complete range of porous plates Includes, B0.5M2, B01M1, B01M3, B03M1, B05M1, B15M1  
 0675PKG2B01HF 2ea. Range of High Flow (HF) porous plates for 1 BAR includes B0.5M2 and B01M3 plates.  
 0675PKG4B01HF 4ea Range of High Flow (HF) porous plates for 1 BAR includes B0.5M2 and B01M3 plates.  
 0675PKG8B01HF 8ea Range of High Flow (HF) porous plates for 1 BAR includes B0.5M2 and B01M3 plates  
 0675PKG2B05 2ea. Range of porous plates for 5 Bar extractions, includes, B01M1, B03M1, B05M1  
 0675PKG4B05 4ea. Range of porous plates for 5 Bar extractions, includes, B01M1, B03M1, B05M1  
 0675PKG8B05 8ea. Range of porous plates for 5 Bar extractions, includes, B01M1, B03M1, B05M1  
 0675PKG2B15 2ea. Range of porous plates for 15 Bar extractions, includes, B01M1, B03M1, B05M1, and B15M1  
 0675PKG4B15 4ea. Range of porous plates for 15 Bar extractions, includes, B01M1, B03M1, B05M1, and B15M1  
 0675PKG8B15 8ea. Range of porous plates for 15 Bar extractions, includes, B01M1, B03M1, B05M1, and B15M1

Specific porous plates can also be ordered in sets of 2ea (0675PKG2), 4ea (0675PKG4), and 8 ea (0675PKG8). Please specify the Bar and Mix for example -4ea., B01M3 plates is ordered as "0675PKG4-B01M3"

